

2005

Product Selection Guide

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ORDERING NUMBER LOGIC



How to build an ordering number:

The ordering numbers used in this catalog provide a description of the lighting system by product type, mechanical construction, electrical characteristics, and optical system in meaningful shorthand. Simply follow the matrix on these pages to gain an understanding of the ordering number logic and you'll find it easy to specify and order a GE lighting system that meets your needs.

Note that the first eight or nine characters (letters and numbers) provide a General Luminaire Description and designate similar information for all GE products:

- Product Name • Wattage • Light Source • Input Voltage and • Ballast Type

The next eight or nine characters may designate different operating characteristics for different luminaires:

- Ambient Temperature • Photo-electrical Control • Spacing Criteria • Optical Type • Light Distribution, etc.

And the final three characters normally designate:

- Options.

NOTE: Do not use these pages for ordering purposes. These are representational only. See Product Pages for Designations for each specific product.

<u>PF4S</u> PRODUCT IDENT	<u>24</u> WATTAGE	<u>S</u> LIGHT SOURCE	<u>0</u> VOLTAGE	<u>A</u> BALLAST TYPE
XXXX	XX	X	X	X
PF4S = PF-400 Standard PF4T = PF-400 with Tray Mounted Ballast NOTE: 200-400W Mag-Reg not available on tray.	15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400* 25 = 250 40 = 400 *Connected for 250W	S = HPS M = MH Standard: Lamp not included.	<u>60Hz</u> 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 <u>50Hz</u> 6 = 220 R = 230 Y = 240 *Connected for 120V	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart (Must Order "P" Option) Non-UL M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell

**Typical Ordering
Number Example:**

You want to replace the old incandescent floodlights lighting a parking area of a manufacturing plant. The fixtures will be mounted on existing poles. You opt to use 400 watt (40) high pressure sodium (S) lamps in a PF-400 Powerflood floodlight (PF4S) with a knuckle type slipfitter (K) to fit existing mounting hardware. You select a

multivolt (O) Auto regulator (A) ballast. No photoelectric receptacle (1) is needed for this timer controlled lighting. A NEMA 6x6 (6x6) beam spread is appropriate for the setback and the gray (GR) finish will blend in with the sky around the floodlight locations.

Therefore, your ordering designation would be:

PF4S 40 S O A 1 6x6 GR K

<u>1</u> PE FUNCTION	<u>6X6</u> NEMA TYPE BEAM SPREAD HORIZ X VERT	<u>DB</u> COLOR	<u>K</u> OPTIONS
X	XXX	XX	XXX
1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Photometric Selection Table Example: 6X6 = 6X6	DB = Dark Bronze (Standard) GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) G = Top Trunnion J = Line Surge Protector, Expulsion Type PF4S only K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48-60mm) OD Tenon L = Latch for door P = Prewired with 6 ft (2 meters) #14/3 Q = Non-Time Delay Automatically Switched Quartz S = Knuckle Slipfitter for 1.9 to 3.0 in. (48-76mm) OD Tenon V = Knuckle Wall Mount Y = Dual Wattage Units Connect Higher Wattage

APPLICATION INDEX

**AIRPLANE HANGER**

Filterglow luminaire
Duraglow luminaire
Versabeam™ luminaire
Omnibeam luminaire
Uniglow 400/1000 luminaire
GHB Industrial luminaire

AIRPORT TERMINAL**APRON**

Criterion™ floodlight Small,
Medium, Large
Criterion™ Horizontal Area
Glarefighter™ Powerflood floodlight
Powr•Spot floodlight
PF-1000 Powerflood floodlight
Decashield 1000 luminaire

BANK

Minimount luminaire
SCM-175 luminaire

BUILDING FACADE

(Under 40 ft high)

Criterion™ floodlight Small,
Medium
Powr•Spot floodlight
PF-1000 Powerflood floodlight
HLU/VLU Powerflood floodlight
PF-400 Powerflood floodlight
PF-154™ Powerflood floodlight
P-154 Powerflood floodlight
Ultra★Sport™ floodlight
Versaflood II Signlifter luminaire
VPF and SBF Powerflood
floodlights

BUILDING FACADE

(Over 40 ft high)

Criterion™ floodlight Large
Powr•Spot floodlight
PF-1000 Powerflood floodlight
Ultra★Sport™ floodlight

CHEMICAL PLANT

Criterion™ floodlight Small,
Medium
Mini•gard™ luminaire
Powr•Gard H9 luminaire
H4 luminaire
H8 luminaire
H7 luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire
Versaflood II Industrial Walllighter
HLU/VLU Powerflood floodlight
PF-400 Powerflood floodlight
P-154™ Powerflood floodlight
M-250 roadway luminaires
M-400 roadway luminaires

COAL PILE

(Storage Pile)

Powr•Spot floodlight
PF-1000 Powerflood floodlight
High Mast luminaire
Ultra★Sport™ floodlight

CONSTRUCTION SITE**BUILDING**

WP-50 luminaire
SBI Industrial luminaire
H7 luminaire
PF-1000 Powerflood floodlight
PF-400 Powerflood floodlight
PF-154™ Powerflood floodlight
P-154 Powerflood floodlight
SBF Powerflood floodlight
Quartz-Flood floodlights
Turnpike™ luminaire
201SA Area Light
Ultra★Sport™ floodlight

LARGE AREA/OPEN PIT/STORAGE/**WORK SITE**

PF-1000 Powerflood floodlight
PF-400 Powerflood floodlight

CONVEYER

Versabeam™ luminaire
Minimite luminaire
H8 luminaire
H7 luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire

GARAGE-SERVICE

Duraglow luminaire
Omniglow™ luminaire
Versabeam™ luminaire
Omnibeam™ luminaire
Uniglow 150 luminaire
GHB Industrial luminaire
CHB™ luminaire
Lowmount II luminaire
Lowmount luminaire
Conserva luminaires
Unimount 400 luminaire
GLB luminaire
CLB™ luminaire
Garage-Gard™ luminaire
SCM-175 luminaire
SMV-70 and SMV-175 luminaires
H7 luminaire

PARKING

Conserva luminaires
Garage-Gard luminaire
Minimite luminaire
Minimount luminaire
SCM-175 luminaire
WP-50 luminaire
SBI Industrial luminaire

GARDEN/COURTYARD

Criterion™ flood Small, Medium
Criterion™ Wallpack Cutoff, and
Forward Throw
Quartz-Flood floodlight
Walllighter luminaires
Wallmount™ luminaires
WML luminaire
SBW luminaire
WP-50 luminaire
Town and Country luminaire
Salem™ luminaire
Post Mount luminaire
GE Americana

GE Edison luminaires
GE Torch luminaire
Patriarch™ luminaires
Legacy™ luminaires
Constitution™ luminaires
Decasphere™ luminaires
Decashield luminaires
Dimension luminaires

GREENHOUSE

Uniglow 400/1000 luminaire

GYM/FIELD HOUSE

Filterglow luminaire
Versabeam™ luminaire
Uniglow 150 luminaire
GHB Industrial luminaire
Lowmount luminaires
Powr•Spot floodlights
Conserva luminaires
Unimount 400 luminaire
GLB™ luminaire
Ultra★Sport™ floodlight

GYM/FIELD HOUSE FOR TV

Filterglow luminaire
Versabeam™ luminaire
Omnibeam luminaire
Uniglow 150 luminaire
Powr•Spot floodlight
Ultra★Sport™ floodlight

INDOOR ARENA/STADIUM

Filterglow luminaire
UltraM Sport™ floodlight
Powr•Spot floodlight / remote
ballast

MANUFACTURING PLANT**ASSEMBLY**

(Under 25 ft)

Omniglow™ luminaire
Versabeam™ luminaire
Omnibeam™ luminaire
Lowmount luminaires
Conserva luminaires
Unimount 400 luminaire
GLB™ luminaire
CLB™ luminaire
Versaglow 150 and 250 luminaires
Ultra Star™ Linear Fluorescent Series

ASSEMBLY

(Over 25 ft high)

Filterglow luminaire
Duraglow luminaire
Omniglow™ luminaire
Uniglow 150 luminaire
Versabeam™ luminaire
Omnibeam™ luminaire
GHB Industrial luminaire
CHB™ luminaire
Ultra Star™ Linear Fluorescent Series

ASSEMBLY LINE

Omniglow™ luminaire
Versabeam™ luminaire
Omnibeam™ luminaire
Lowmount luminaires
Conserva luminaires
Unimount 400 luminaire
FINISHING/ETCHING
Filterglow luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire

FOOD PROCESSING

Versabeam luminaire
Food-Pro™ luminaire

Food-Pro™ II luminaire
Lowmount luminaires
Conserva luminaires
Unimount 400 luminaire
Perma•Gard luminaire

FOUNDRY

Filterglow luminaire
Uniglow 400/1000 enclosed
luminaire

LOWMOUNT LUMINAIRES

Unimount 400 luminaire
Versaflood II Industrial Walllighter
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire

HAZARDOUS LOCATION

Powr•Gard H9 luminaire
H4 luminaire
H8 luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire
P-154 luminaire
PF-400 Powerflood floodlight
H8 luminaire
INSPECTION AREA
Omniglow™ luminaire
Versabeam™ luminaire
Omnibeam™ luminaire



Lowmount luminaires
Conserva luminaires
Unimount 400 luminaire

LOADING DOCK

Conserva luminaires
Criterion WallPack
Powr•Spot III floodlight
PF-400 Powerflood floodlight
PF-1000 Powerflood floodlight
Glarefighter™ Powerflood
floodlight
Unimount luminaire
Garage-Gard luminaire
Minimite luminaire
WP-50 luminaire
SBI Industrial luminaire
SCM-50 luminaire
H7 luminaire

Versaflood II Walllighter luminaire
Walllighter luminaires
Wallmount™ 175 luminaire
MACHINE SHOPS
Filterglow luminaire
Duraglow luminaire
Omniglow™ luminaire
Versabeam™ luminaire
Omnibeam™ luminaire
Uniglow 400/1000 luminaire
GHB Industrial luminaire
CHB™ luminaire

PAINT SHOP

Powr•Gard H9 luminaire
H4 luminaire
H8 luminaire

PARK

Americana luminaire
Patriarch luminaire
Constitution luminaire
Legacy luminaire

Lowmount luminaires
Unimount 400 luminaire
Conserva luminaires

TASK LIGHTING

Conserva luminaires
Minimite luminaire
SBI Industrial luminaire
H7 luminaire

WELDING SHOP

Filterglow luminaire
Omniglow™ luminaire
Uniglow 400/1000 enclosed
luminaire

LOWMOUNT LUMINAIRES

Conserva luminaires
Unimount 400 luminaire

WET LOCATION

Filterglow luminaire
Uniglow 400/1000 luminaire
Lowmount luminaire
Conserva luminaires
Unimount 400 luminaire
Minimite luminaire
H8 luminaire
H7 luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire

MARINA

Criterion™ flood Small, Medium,
Large
Criterion™ Wallpack
Criterion™ Area Horizontal, and
Vertical

Minimite luminaire
H7 luminaire
Filtr•Gard H2 luminaire
Mini•Gard™ luminaire
Perma•Gard luminaire
HLU/VLU Powerflood floodlight
PF-400 Powerflood floodlight
P-154 Powerflood floodlight
WP-50 luminaire

MONUMENT

(Under 40 ft high)

Criterion™ flood Small, Medium
PF-1000 Powerflood floodlight
MPF & SBF Powerflood floodlights
HLU/VLU Powerflood floodlight
PF-400 Powerflood floodlight
PF-154™ Powerflood floodlight
P-154 Powerflood floodlight
Versaflood II Signlifter luminaire
(Over 40 ft high)

Criterion™ flood Large
Ultra★Sport™ floodlight
Powr•Spot III floodlight
PF-1000 Powerflood floodlight

OFFICE

Versaglow luminaire

PAINT BOOTH

Powr•Gard H9 luminaire
H4 luminaire
H8 luminaire

PAINT SHOP

Powr•Gard H9 luminaire
H8 luminaire

PARK

Americana luminaire
Patriarch luminaire
Constitution luminaire
Legacy luminaire



HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight
 SBF/SBN Powerflood floodlight
 Town and Country luminaire
 Salem™ luminaire
 Post Mount luminaire
 GE Edison luminaires
 GE Torch luminaire
 Decasphere™ luminaires
 Decashield luminaires
 Dimension™ luminaires

PARKING AREA

PF-1000 Powerflood floodlight
 Glarefighter™ Powerflood floodlight
 Criterion™ floodlight
 HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154 Powerflood floodlight
 P-154 Powerflood floodlight
 Decasphere™ luminaires
 Dimension™ luminaires
 Decashield luminaires
 Nexell™
 M-250 roadway luminaires
 M-400 roadway luminaires
 High Mast luminaire

PIPELINE

Minimite luminaire
 H8 luminaire
 H7 luminaire
 Filtr•Gard H2 luminaire
 Mini•Gard™ luminaire
 Perma•Gard luminaire

PLAYGROUND

Powr•Spot floodlight
 Glarefighter™ Powerflood floodlight
 SBF Powerflood floodlights
 PF-1000 Powerflood floodlight
 HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight

PRINTING SHOP

Versabeam™ luminaire
 Lowmount luminaires
 Conserva luminaires
 Unimount 400 luminaire
 Versaglow luminaire
 Minimite luminaire

PRISON

H7 luminaire
 Powr•Spot floodlight
 Ultra★Sport™ floodlight
 PF-1000 Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight
 M-250 roadway luminaires
 M-400 roadway luminaires
 Turnpike™ luminaire
 High Mast luminaire

Pulp and Paper mill

Filterglow luminaire
 Duraglow luminaire
 Lowmount luminaires
 Glarefighter™ Powerflood floodlight
 Versaflood II Industrial Walllighter
 Filtr•Gard H2 luminaire
 Mini•Gard luminaire
 Perma•Gard luminaire
 PF-1000 Powerflood floodlight
 PF-400 Powerflood floodlight
 HLU/MLU Powerflood floodlights

M-400A Powr/Door roadway luminaire

High Mast luminaire

QUARRY

PF-1000 Powerflood floodlight
 Turnpike™ luminaire
 High Mast luminaire

RAILROAD YARD

PF-1000 Powerflood floodlight
 Powr•Spot floodlight
 Ultra★Sport™ floodlight
 High Mast luminaire

RESIDENCE

Criterion™ flood Small
 Criterion™ Wallpack Small Direct Mount

Torch luminaire
 Patriarch luminaire
 Americana luminaire
 Edison luminaire
 Constitution luminaire
 Legacy luminaire
 Salem luminaire
 Town & Country

SBF Powerflood floodlight
 Walllighter 70 luminaire
 SBW luminaire
 WP-50 luminaire

Retail

Duraglow luminaire
 Omniglow luminaire
 Versabeam luminaire
 Omnibeam luminaire
 GHB Prismatic luminaire
 Conserva luminaires
 Mini•Gard Industrial luminaire
 Ultra Star™ Linear Fluorescent Series

ROADWAY

HIGHWAY/INTERSTATE

Tiger™
 Nexell™
 M-400 roadway luminaires
 Turnpike™ luminaire
 High Mast luminaire

INTERCHANGE

Tiger™
 M-400 roadway luminaires
 Turnpike™ luminaire
 High Mast luminaire

RESIDENTIAL STREET

StreetDreams™ Post Top:
 Traditional Series
 Prismatic Series
 Avery Series
 Lantern Series
 Vandermore Luminaire

Patriarch luminaire
 Americana luminaire
 Constitution luminaire
 Legacy luminaire
 Criterion™ Area Medium

Horizontal

Town and Country luminaire
 Salem luminaire
 Post Mount luminaire
 GE Edison luminaires
 GE Torch luminaire
 Decasphere™ luminaires
 Dimension™ luminaires
 Decashield luminaires
 Nexell™
 M-250 roadway luminaires

TRAFFIC STREET

Dimension™ luminaires
 Decashield luminaires
 M-250 roadway luminaires
 M-400 roadway luminaires

SECURITY/PROTECTIVE

BUILDING SURROUNDINGS
 Criterion™ Wallpack Small, Medium
 Criterion™ Area Horizontal Medium, Large
 Criterion™ Area Vertical Medium, Large

PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight
 Glarefighter™ Powerflood floodlight
 WML Walllighter luminaire
 SBW luminaire
 WP-50 luminaire
 Walllighter luminaires
 Wallmount luminaires
 Versaflood II Signlitter luminaire
 Turnpike™ luminaire

ENTRANCE/EXIT

Criterion™ Wallpack Small, Direct Mount

SCM-50 luminaire
 H7 luminaire
 P-154 Powerflood floodlight
 SBF Powerflood floodlight
 Walllighter luminaires
 Wallmount™ luminaires
 SBW luminaire
 WP-50 luminaire

Decashield luminaires
 Dimension™ luminaires
 Versaflood II Signlitter luminaire

FENCE LINE

PF-1000 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight
 M-250 roadway luminaires
 M-400 roadway luminaires
 Turnpike™ luminaire

SIGNS

POSTER PANEL & BULLETIN BOARD

HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight
 Quartz-Flood floodlights
 Versaflood II Signlitter luminaire
 Versaflood III™ Induction Sign

Lighter

ROADWAY

Versaflood II Signlitter luminaire
 Versaflood III™ Induction Sign

Lighter

STADIUM

BASEBALL & SOFTBALL

Ultra★Sport™ floodlight
 Powr•Spot floodlights
 PF-1000 Powerflood floodlight

BASKETBALL

Ultra★Sport floodlight
 Powr•Spot floodlights
 PF-1000 Powerflood floodlight
 HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight

FOOTBALL & SOCCER

Ultra★Sport™ floodlight
 Powr•Spot floodlights
 PF-1000 Powerflood floodlight
 QF1500 Quartz-Flood floodlight
GOLF
 Ultra★Sport™ floodlight
 Glarefighter™ Powerflood floodlight
 Powr•Spot floodlights
 PF-1000 Powerflood floodlight



HORSESHOES & SHUFFLEBOARD

HLU/MLU Powerflood floodlight
 Glarefighter™ Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 P-154 Powerflood floodlight

TENNIS

PF-1000 Powerflood floodlight
 HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154™ Powerflood floodlight
 Glarefighter™ Powerflood floodlight
 P-154 Powerflood floodlight
 Decashield luminaires

SKI AREA

PF-1000 Powerflood floodlight
 Glarefighter™ Powerflood floodlight
 Filtr•Gard H2 luminaire

STORAGE TANK FARM

Powr•Gard H9 luminaire
 H4 luminaire
 H8 luminaire
 H7 luminaire

Mini•Gard™ luminaire

Perma•Gard luminaire

PF-400 Powerflood floodlight

PF-154™ Powerflood floodlight

P-154 Powerflood floodlight

M-250 roadway luminaires

M-400 roadway luminaires

Turnpike™ luminaire

STORAGE YARD

Powr•Spot floodlight
 PF-1000 Powerflood floodlight
 HLU/MLU Powerflood floodlight
 PF-400 Powerflood floodlight
 PF-154 Powerflood floodlight
 P-154 Powerflood floodlight
 M-400 roadway luminaires
 Turnpike™ luminaire
 High Mast luminaire

TUNNEL

PF-400 Powerflood floodlight
 Versaflood II Walllighter luminaire
 Glarefighter™ Powerflood floodlight
 Walllighter 400 luminaire
 Walllighter 175 luminaire
 Wallmount™ 175 luminaire
 Versaflood II Signlitter luminaire
 Tunnel Guard™ luminaire

UTILITY PROPERTY

BOILERSTACKS

Versabeam™ luminaire
 Lowmount luminaires
 Conserva luminaires
 Unimount 400 luminaire
 Minimite luminaire
 H8 luminaire
 H7 luminaire

Filtr•Gard H2 luminaire

Mini•Gard™ luminaire

COOLING TOWER

Minimite luminaire

H8 luminaire

H7 luminaire

Filtr•Gard H2 luminaire

Mini•Gard™ luminaire

Perma•Gard luminaire

EXTERIORS

(Buildings/Grounds)

Minimite luminaire

Powr•Gard H9 luminaire

H8 luminaire

H7 luminaire

Filtr•Gard H2 luminaire

Mini•Gard™ luminaire

Perma•Gard luminaire

Powerflood floodlights

Walllighter luminaires

Wallmount™ luminaires

Decasphere™ luminaire

Decashield luminaires

M-250 roadway luminaires

M-400 roadway luminaires

WML Walllighter luminaire
 SBW luminaire
 WP-50 luminaire
 Town and Country luminaire
 Salem™ luminaire
 Post Mount luminaire
 Impression luminaire
 GE Americana
 GE Edison luminaires
 GE Torch luminaire
 Dimension luminaires
 Turnpike™ luminaire

TURBINE BAY

Filterglow luminaire
 Duraglow luminaire
 Omniglow™ luminaire
 Versabeam™ luminaire
 Uniglow 400/1000 luminaire
 GHB Industrial luminaire
 H7 luminaire

WAREHOUSE

(Under 25 ft high)

Omniglow™ luminaire
 Versabeam™ luminaire
 Omnibeam™ luminaire
 Lowmount luminaires
 Conserva luminaires
 Unimount 400 luminaire
 Ultra Star™ Linear Fluorescent Series
 (Over 25 ft high)
 Duraglow luminaire
 Omniglow™ luminaire



Versabeam™ luminaire
 Omnibeam™ luminaire
 Uniglow 400/1000 luminaire
 GHB Warehouse luminaire
 Lowmount luminaires
 Conserva luminaires
 Unimount 400 luminaire
 Ultra Star™ Linear Fluorescent Series
 (Non-Active)

Conserva luminaires
 Minimite luminaire
 SMV-70 and SMV-175 luminaires
 WP-50 luminaire
 SBI Industrial luminaire
 SCM-50 luminaire
 H7 luminaire

WATER/SEWAGE TREATMENT

H8 luminaire
 H7 luminaire

Filtr•Gard H2 luminaire

Mini•Gard™ luminaire

Perma•Gard luminaire

PF-1000 Powerflood floodlight

HLU/MLU Powerflood floodlight

PF-400 Powerflood floodlight

Turnpike luminaire

High Mast luminaire

WHARF/DOCK/CONTAINER YARD

Powr•Spot floodlight
 PF-1000 Powerflood floodlight
 Turnpike™ luminaire
 High Mast luminaire

ORDERING NUMBER or PRODUCT PREFIX INDEX



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PPS-M2R1	R-51			TMDB-SBF002	F-33				
PPS-M2RC1	R-51			TMDB-SBF002	F-40				
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				S27L	R-40				



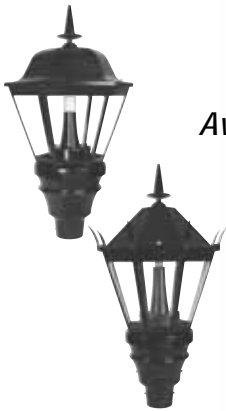
StreetDreams™

Make your dreams a reality



Traditional Series

Prismatic Series



Avery™ Series

Lantern™ Series



Vandermore™ Series



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Area Lighting

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AREA LIGHTING

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imagination at work

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CRITERION™ AREA LIGHTING

Featuring SnapDrive™



Vertical



Horizontal

APPLICATIONS

- Walkways, driveways, tennis courts, malls and shopping centers
- Commercial and industrial complexes, residential areas and parkway lighting

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Scaled family styling for a consistent site-enhancing look – day and night
- Die-cast aluminum housing for strength, beauty and low maintenance
- Concealed continuous gasket seals against harmful dust, dirt, moisture and insects
- Tool-less entry for easy, economical maintenance
- Activated charcoal breath-way for clean ventilation and long term maintained foot candle levels
- Predrilled integral mounting

- surfaces for quick installation of accessories
- Low-profile hinges and latches for a clean look
- Choice of a palette of standard colors, 188 RAL colors, or your own custom color in fade- and abrasion-resistant powder and liquid paints
- Reflector section, optimized for typical applications – facilitates and maximizes design flexibility
- Reflector is computer optimized for MH lamps to maximize efficiency
- Optical insert redirects nadir focused light into a projected beam for enhanced uniformity
- Rugged hydro-formed reflector for consistent, repeatable performance
- ALGLAS® coating seals reflectors

- from contaminants for superior long term performance
- Square Type V distribution minimizes adjacent luminaire overlap and improves uniformity
- Field-rotatable reflector allows design flexibility and fine tuning without housing reorientation (excluding FWT reflectors)
- 250w to 1000w MH, PMH and HPS lamp operations (Consult ballast selection table for availability.)
- Designed for compact lamps minimizing EPA and pole costs.
- Optional switched quartz
- Optional single & dual fusing
- Optional full size twist lock PE receptacle
- Optional Bi-level switching

ORDERING NUMBER LOGIC

CXXX	40	M	0	A	2	A	WHITE	B	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE CONTROL	PHOTOMETRIC DISTRIBUTION	COLOR	MOUNTING	OPTIONS
XXXX	XX	X	X	X	X	XX	XXXX	X	X
CHMX = Medium Horizontal Lamp CVMX = Medium Vertical Lamp CHLX = Large Horizontal Lamp CVLX = Large Vertical Lamp CHMC = Medium Horizontal Lamp for Canada CVMC = Medium Vertical Lamp for Canada CHLC = Large Horizontal Lamp for Canada CVLC = Large Vertical Lamp for Canada	25 = 250 (M) 32 = 320 (M) 40 = 400 (M) 01 = 1000 (L) M = Medium L = Large	S = HPS M = MH P = pulse start MH Lamp included	60Hz 0 = 120/208/ 240/277* MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 P = 347, 120x277 D = 347 P = 120X277X347** * Factory set to 277V ** Factory set to 347V	See Ballast Selection Table A = Autoreg D = BiLevel III 400W & 1000W	1 = No PE 2 = With PE Receptacle	A = Flat Glass Asymmetric, Narrow B = Flat Glass Asymmetric, Wide C = Flat Glass Forward Throw D = Flat Glass Symmetric, Square E = Sag Glass** F = Sag Glass** Asymmetric, Wide G = Sag Glass** Forward Throw H = Sag Glass** Symmetric, Square ** Sag glass available only on vertical luminaires	Standard Colors DKBZ = Dark Bronze BLCK = Black WHITE = White Special Colors Insert four digit color code from RAL Color Chart	A = 4 in. Mounting Arm* B = 8 in. Mounting Arm** C = 12 in. Mounting Arm D = 4 in. Mounting Arm for Round Pole* E = 8 in. Mounting Arm for Round Pole** F = 12 in. Mounting Arm for Round Pole	A = Lighting Arrester, Grounded Type B = Time Delay Automatically Switched Quartz F = Fusing* J = Line Surge Protector, Expulsion Type Q = Non-Time Delay Switched Quartz T = Terminal Board XXX = Special Options * Fusing not available with multivolt

PHOTOMETRIC SELECTION TABLE

Horizontal Luminaire Size	Wattage	Light Source	Flat Glass Asymmetric (Narrow)	Flat Glass Asymmetric (Wide)	Flat Glass (Forward Throw)	Flat Glass Symmetric (Square)
Medium (CHMX, CHMC)	250	HPS	451862	451863	451864	451865
	400	HPS	451728	451731	451734	451737
	250	MH	451870	451871	451872	451873
	400	MH	451727	451730	451733	451736
	250	PMH	451866	451867	451868	451869
	400	PMH	451729	451732	451735	451738
Large (CHLX, CHLC)	1000	MH	N/A	N/A	451743	N/A
Vertical Luminaire Size	Wattage	Light Source	Sag Glass Asymmetric (Narrow)	Sag Glass Asymmetric (Wide)	Sag Glass (Forward Throw)	Sag Glass Symmetric (Square)
Medium (CVMX, CVMC)	250	HPS	451874	451875	451876	451877
	400	HPS	451708	451711	451714	451717
	250	MH	451882	451883	451884	451885
	400	MH	451707	451710	451713	451716
	250	PMH	451878	451879	451880	451881
	400	PMH	451709	451712	451715	451718
Large (CVLX, CVLC)	750 1000	PMH MH	452668 451719	452669 451721	452670 451723	452671 451725
Vertical Luminaire Size	Wattage	Light Source	Flat Glass Asymmetric (Narrow)	Flat Glass Asymmetric (Wide)	Flat Glass (Forward Throw)	Flat Glass Symmetric (Square)
Large (CVLX, CVLC)	750 1000	PMH MH	N/A N/A	452626 452625	451631 451425	452624 452623

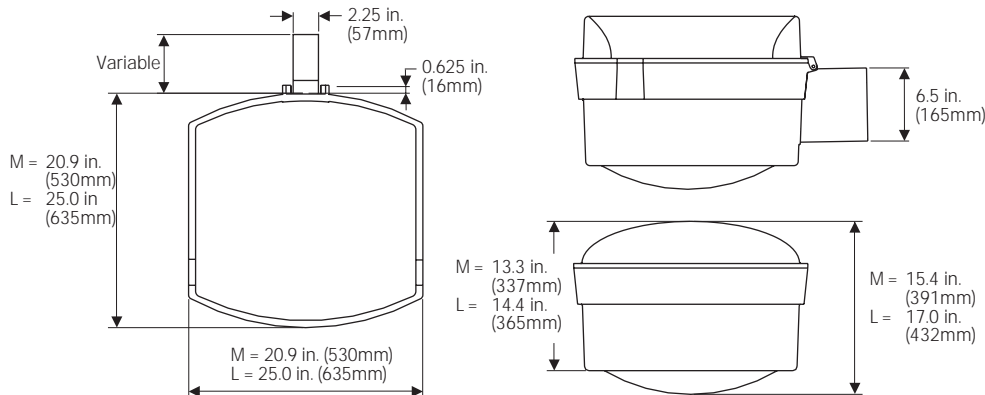
REFERENCES

See Page A-16 for start of Accessories.
See Page A-22 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

CRITERION™ AREA LIGHTING

FIXTURE DIMENSIONS

Vertical



DRILLING TEMPLATE

Refer to Page A-7 for drilling template dimensions.

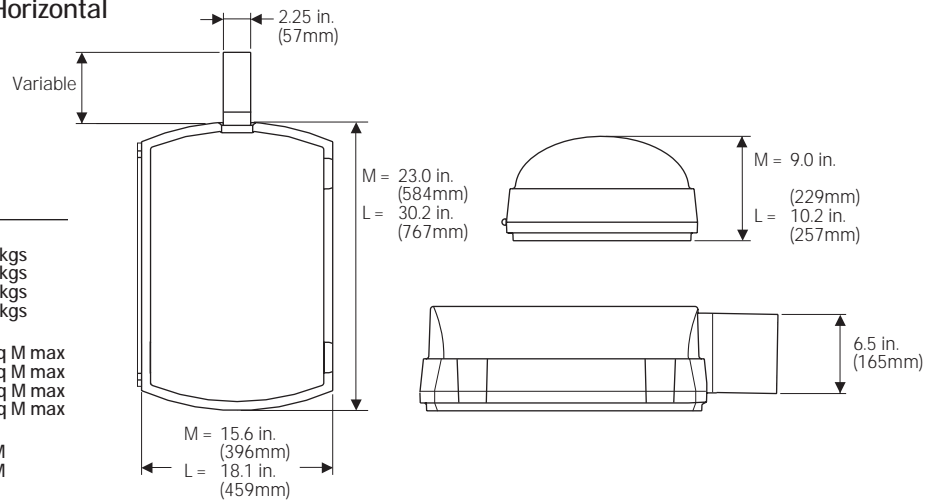
CRITERION AREA LIGHTING

A

DATA

Approximate Net Weight			
Medium Vertical	45-70 lbs	20-32 kgs	
Medium Horizontal	34-45 lbs	16-21 kgs	
Large Vertical	60-70 lbs	27-32 kgs	
Large Horizontal	60-70 lbs	27-32 kgs	
Effective Projected Area:			
Medium Vertical	1.8 sq ft max	.220 sq M max	
Medium Horizontal	1.8 sq ft max	.220 sq M max	
Large Vertical	3.0 sq ft max	.282 sq M max	
Large Horizontal	2.4 sq ft max	.222 sq M max	
Typical Mounting Height			
Medium	20-40 ft	6-12 M	
Large	30-50 ft	9-15 M	

Horizontal



BALLAST SELECTION TABLE

All HID light sources are clear unless otherwise indicated.

Housing Type	Wattage	Source	Lamp Size	Multivolt	120	208	240	277	480	347	120 x 277 x 347
CHMX	250, 400	HPS	ED28	A	A,D	A,D	A,D	A,D	A,D	N/A	N/A
	250, 400	MH	ED28	A	A	A	A	A	A	N/A	N/A
	250, 400	PMH	ED28	A	A	A	A	A	A	N/A	N/A
CHLX	1000	MH	BT37	A	A	A	A	A	A	N/A	N/A
CVMX	250, 400	HPS	ED28	A	A,D	A,D	A,D	A,D	A,D	N/A	N/A
	250, 400	MH	ED28	A	A,D	A,D	A,D	A,D	A,D	N/A	N/A
	250, 400	PMH	ED28	A	A	A	A	A	A	N/A	N/A
CVLX	750	PMH	BT37	N/A	A	A	A	A	A	A	N/A
	1000	MH	BT37	A	A,D	A,D	A,D	A,D	A,D	N/A	N/A
CHMC Canada	250, 400	HPS	ED28	N/A	A,D	N/A	N/A	A,D	N/A	A,D	A
	250, 400	MH	ED28	N/A	A	N/A	N/A	A	N/A	A	A
	250, 400	PMH	ED28	N/A	A	N/A	N/A	A	N/A	A	A
CHLC Canada	1000	MH	BT37	N/A	A	N/A	N/A	A	N/A	A	A
CVMC Canada	250, 400	HPS	ED28	N/A	A,D	N/A	N/A	A,D	N/A	A,D	N/A
	250, 400	MH	ED28	N/A	A,D	N/A	N/A	A,D	N/A	A,D	A
	250, 400	PMH	ED28	N/A	A	N/A	N/A	A	N/A	A	A
CVLC Canada	750	PMH	BT37	N/A	A	A	A	A	A	A	N/A
	1000	MH	BT37	N/A	A,D	N/A	N/A	A,D	N/A	A,D	A

NOTE: N/A = Not Available

SUGGESTED CONFIGURATION

HORIZONTAL

ACCESS ROAD LIGHTING

400 watt	CHMX	40	P	O	A	1	A	DKBZ	A	C
1000 watt	CHMX	40	P	O	A	1	B	DKBZ	A	C

PARKING PERIMETER LIGHTING

400 watt	CHMX	40	P	O	A	1	C	DKBZ	A	C
1000 watt	CHLX	01	M	O	A	1	C	DKBZ	A	C

PARKING LOT LIGHTING

400 watt	CHMX	40	P	O	A	1	D	DKBZ	A	C
1000 watt	CHLX	01	M	O	A	1	D	DKBZ	A	C

VERTICAL

ACCESS ROAD LIGHTING

400 watt	CVMX	40	P	O	A	1	E	DKBZ	B	C
1000 watt	CVMX	40	P	O	A	1	F	DKBZ	B	C

PARKING PERIMETER LIGHTING

400 watt	CVMX	40	P	O	A	1	G	DKBZ	B	C
1000 watt	CVLX	01	M	O	A	1	G	DKBZ	B	C

PARKING LOT LIGHTING

400 watt	CVMX	40	P	O	A	1	H	DKBZ	B	C
1000 watt	CVLX	01	M	O	A	1	H	DKBZ	B	C

DECASHIELD® 1000 LUMINAIRE



APPLICATIONS

- High wattage site lighting including parking areas, roadways, automobile lots, tennis courts, malls and commercial complexes

SPECIFICATION FEATURES

- / 1598 Listed Suitable For Wet Locations
- Precision engineered aluminum housing featuring die-cast ends and die-cast door frame
- Polyester powder paint finish in dark bronze, black, gray, white or aluminum
- No-tool access stainless steel latch design
- Broken Glass Shutdown Circuit
- Heat and impact resistant tempered flat glass lens
- Removable ballast tray—standard
- Utilizes standard 1000 watt lamps
- Available with Type I, Type II, Type III or Forward Throw
- All reflectors are field rotatable
- Enclosed and gasketed housing
- Decorative Mounting Arm (4 in. [103mm], 8 in. [203mm] or 12 in. [305mm]) (Drilling templates are the same for the Decashield 400 and Dimension™ luminaires.)
- Mogul base socket – E39 standard
- Magnapack packaging available

DECASHIELD 1000 AREA LIGHTING

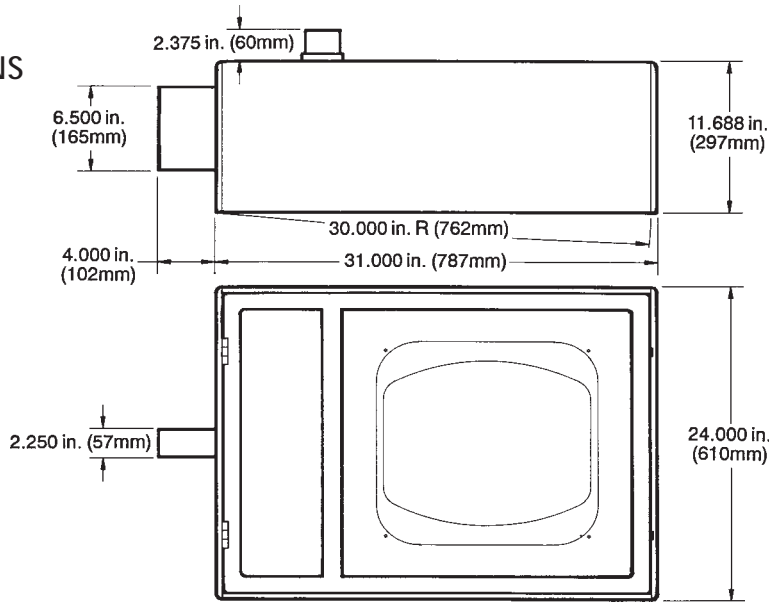
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ORDERING NUMBER LOGIC

DSA	01	S	1	A	2	G	MC1	DB	1	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	MOUNTING ARM LENGTH	OPTIONS
XXX	XX	X	X	X	X	X	XXX	XX	X	XXX
DSA = Decashield 1000 Luminaire with Arm Mounting	75 = 750 01 = 1000	S = HPS M = MH P = Pulse MH Standard: Mogul base lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: 120X347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	G = Glass	See Ballast and Photometric Selection Table MC1 = Medium Cutoff Type I SC2 = Short Cutoff Type II MC2 = Medium Cutoff Type II MC3 = Medium Cutoff Type III FWT = Forward Throw	AL = Aluminum BL = Black DB = Dark Bronze (Standard) CG = Charcoal Gray WH = White	1 = 4 in. (102mm) for Singles Two at 180° 2 = 12 in. (305mm) for Two at 90° Tri-Fixture Poles Quad-Fixture Poles 3 = 8 in. (203mm) for Singles Two at 180° 4 = 4 in. (102mm) for Round Pole 5 = 12 in. (305mm) for Round Pole 6 = 8 in. (203mm) for round Pole R = No arm. Housing drilled with diagonal hole pattern	A = Lightning Arrester, Grounding Type B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type Q = Non-Time Delay Automatically Switched Quartz

DECASHIELD® 1000 LUMINAIRE

FIXTURE DIMENSIONS



DECASHIELD 1000 AREA LIGHTING

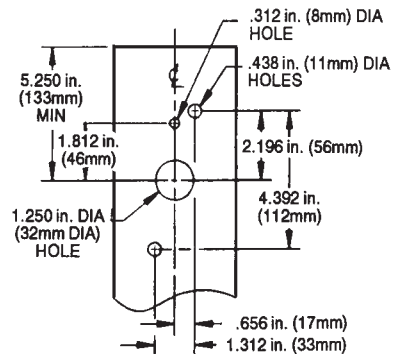
A

DATA

Approximate Net Weight	60-70 lbs	27-32 kgs
Suggested Mounting Height	30-50 ft.	9-15 M
Effective Projected Area:		
No Mounting Arm	2.6 sq ft max	0.24 sq M max
Single with 4 in. (102mm) Mounting Arm	3.0 sq ft max	0.29 sq M max
Double with 4 in. (102mm) Mounting Arm at 180°	6.0 sq ft max	0.56 sq M max
Double with 4 in. (102mm) Mounting Arm at 90°	4.5 sq ft max	0.42 sq M max
Single with 12 in. (305mm) Mounting Arm	3.2 sq ft max	0.30 sq M max
Double with 12 in. (305mm) Mounting Arm at 180°	6.4 sq ft max	0.59 sq M max
Triple with 12 in. (305mm) Mounting Arm at 90°	8.0 sq ft max	0.74 sq M max
Quad with 12 in. (305mm) Mounting Arm at 90°	9.3 sq ft max	0.86 sq M max
Double with 12 in. (305mm) Mounting Arm at 90°	4.8 sq ft max	0.45 sq M max

NOTE: The wind loading of Decashield Luminaires, when mounted to poles in multiples radially about the axis of the pole, do not necessarily have the EPA of a single luminaire multiplied by the number of luminaires.

SQUARE POLE MOUNTING: STANDARD (choices 1, 2, 3 from Logic Table)



DRILLING TEMPLATE

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

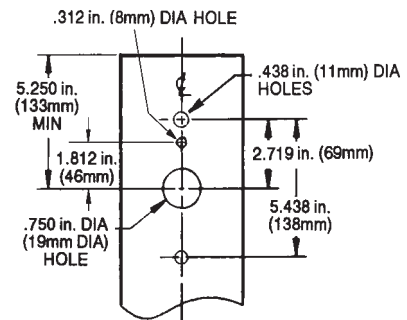
Wattage	Light Source	Ballast Type/Voltage								Photometric Curve No. 35-17 - - -					
		Multi-volt	60Hz				50Hz				IES Distribution Type				
			120, 208, 240, 277, 480	347, 120X347	220	220	230	240	MC1	SC2	MC2	MC3	FWT		
750	HPS	N/A	A,H	A,H	N/A	N/A	N/A	N/A	N/A	N/A	8979	N/A	8985		
1000	HPS	A	A	A	N/A	A	A	A	N/A	8980	8988	8993	8986		
1000	MH	A, P	A	A	A	A	A	A	N/A	8981	N/A	N/A	8982		
1000 (BT37)	MH	A, P	A	A	A	A	A	A	8978	N/A	N/A	N/A	8987		
1000	PMH	A	A	A	N/A	N/A	N/A	N/A	N/A	8981	N/A	N/A	8982		
1000 (BT37)	PMH	A	A	A	N/A	N/A	N/A	N/A	8978	N/A	N/A	N/A	8987		

NOTE: N/A=Not Available

REFERENCES

See Page A-16 for start of Accessories.
 See Page A-22 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

ROUND POLE MOUNTING 3.5 to 4.5-inch (89 to 114mm) OD round pole mounting arm (choices 4, 5, 6 from Logic Table)



DRILLING TEMPLATE

DECASHIELD® 400 LUMINAIRE

APPLICATIONS

- Walkways, driveways, tennis courts, malls, shopping centers, commercial and industrial complexes
- Residential areas and parkway lighting.



SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- Heavy-duty die-cast aluminum housing and door
- Polyester powder paint finish standard in dark bronze, black, white, gray or aluminum
- No-tool access stainless steel latch design
- Heat and impact resistant tempered flat glass lens
- ALGLAS® finish on Type II, Type III and Type V reflectors, anodized finish on Forward Throw reflector
- Type II, Type III metal halide, and all Forward Throw reflectors are field rotatable
- Enclosed and gasketed optical
- Decorative Mounting Arm standard for flat or curved (for 3.5 to 4.5) OD pole (drilling templates are the same as those for the Decashield 1000 and Dimension™ luminaires)
- Mogul base socket – E39 standard
- Plug-in ignitor
- Unit shipped complete in one carton (Ballast secured to housing)
- Removable ballast tray
- Magnapack packaging available

DECASHIELD 400 AREA LIGHTING

A

ORDERING NUMBER LOGIC

DSMT	40	S	0	A	1	G	MC3	DB	C
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
DSMT = Decashield 400 Luminaire with Ballast Tray Flat Surface & Mounting Arm	15 = 150 (55V) 17 = 175 24 = 250/400* 25 = 250 40 = 400 *250/400 connected for 120V	S = HPS M = MH P = Pulse MH Standard: Mogul base lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz Y = 240 NOTE: 120X347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg D = Bi-Level G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restrike (Must also order "P" option at right. (Non-UL) Contact Factory) M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	G = Glass	See Ballast and Photometric Selection Table MC2 = Medium Cutoff Type II MC3 = Medium Cutoff Type III FWC = FWT w/ILS FWT = Forward Throw HTV = Horizontal Type V	AL = Aluminum BL = Black DB = Dark Bronze (Standard) CG = Charcoal Gray WH = White NOTE: Contact factory for other colors.	A = Lightning Arrester, Grounding Type C = Charcoal Filter (Not available with FWT) F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type P = Prewire with 6' of 14/3 cable. R = No Mounting Arm Q = Non-Time Delay Automatically Switched Quartz

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage						Photometric Curve Number 35-17 - - - -				
		60Hz			50Hz			IES Distribution Type				
		Multivolt	120	208, 240, 277, 480	347, 120X347	220	240	MC2	MC3	FWT	HTV	FWC
150(55V)	HPS	H,K,A	G,H,M,A	G,M,A	H	N/A	N/A	8591	8596	8604	8599	452557
250, 400	HPS	A, K	A, P	A, P	A, P	A, H	A	8592	7315	8605	8600	452555
175, 250	MH	A	A	A	A	A	N/A	8594	8597	8607	8602	452559
400	MH	A	A, P	A, P	A, P	A	A	8595	8598	8608	8603	452554
250	PMH	A	A	A	A(347)	N/A	N/A	8594	8597	8607	8602	452559
400	PMH	A	A	A	A(347)	N/A	N/A	8595	8598	8608	8603	452554

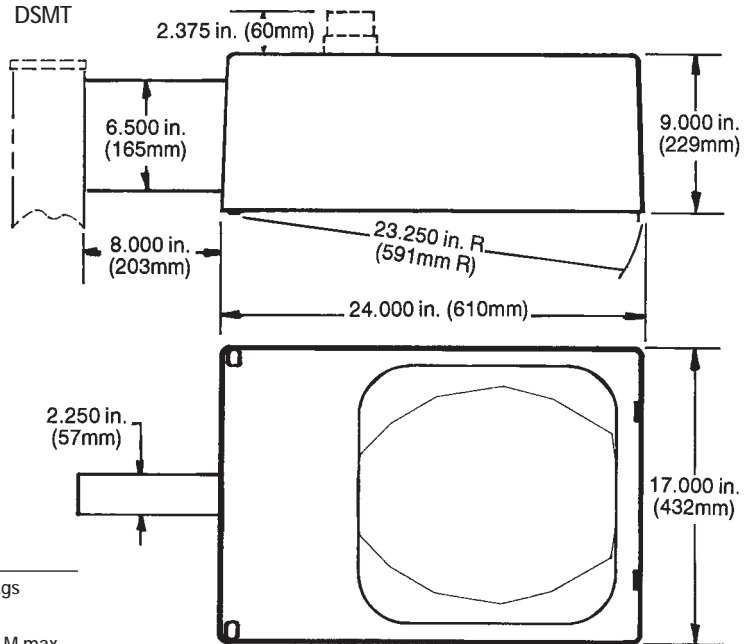
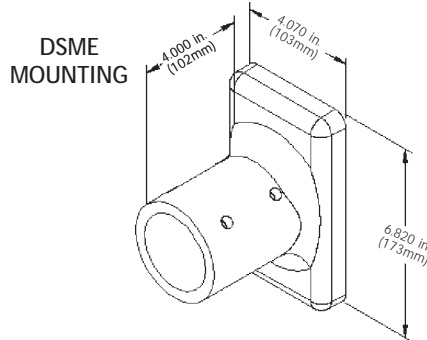
NOTE: N/A = Not available.

GE Lighting Systems, Inc.

www.gelightingssystem.com

DECASHIELD® 400 LUMINAIRE

FIXTURE DIMENSIONS



DECASHIELD 400 AREA LIGHTING

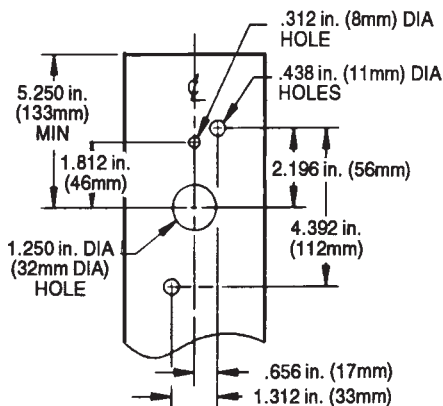
A

DATA

Approximate Net Weight	35-45 lbs	16-18 kgs
Suggested Mounting Height	20-40 ft.	6-12 M
Effective Projected Area:		
No Mounting Arm	1.4 sq ft max	0.13 sq M max
Single with 8 in. (203mm) Mounting Arm	1.8 sq ft max	0.17 sq M max
Double with 8 in. (203mm) Mounting Arm at 180°	3.6 sq ft max	0.33 sq M max
Triple with 8 in. (203mm) Mounting Arm at 90°	4.3 sq ft max	0.40 sq M max
Quad with 8 in. (203mm) Mounting Arm at 90°	4.9 sq ft max	0.46 sq M max
Double with 8 in. (203mm) Mounting Arm at 90°	2.5 sq ft max	0.23 sq M max

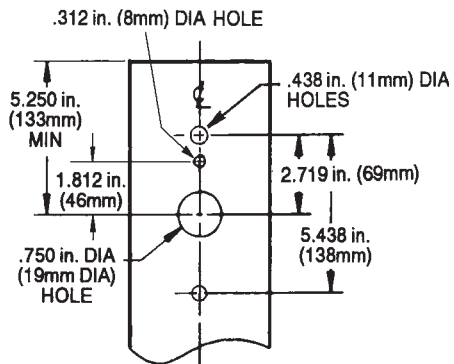
NOTE: The wind loading of Decashield Luminaires, when mounted to poles in multiples radially about the axis of the pole, do not necessarily have the EPA of a single luminaire multiplied by the number of luminaires.

DSMT SQUARE POLE MOUNTING: STANDARD



DRILLING TEMPLATE

DSMR ROUND POLE MOUNTING 3.5 to 4.5-inch (89 to 114mm) OD round pole



DRILLING TEMPLATE

REFERENCES

See Page A-16 for start of Accessories.
 See Page A-22 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

DECASHIELD® 175 LUMINAIRE

APPLICATIONS

- Entranceways, walkways and parking areas
- Driveways, malls and cutoff wall lighting (with wall mounting plate)

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Cutoff optics
- Enclosed and gasketed
- Heat and impact resistant tempered flat glass lens (standard)
- UV stabilized polycarbonate or acrylic prismatic drop lens (optional)
- Heavy-duty die-cast aluminum housing
- For cutoff wall lighting applications, order wall mounting plate **WMPDB-SP** separately
- Shipped assembled with medium base – E26 standard – with lamp installed in socket
- Plug-in ignitor
- Unit shipped complete in one carton (Ballast secured to housing)
- Magnapack packaging available



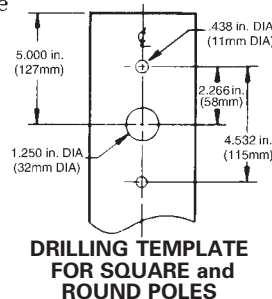
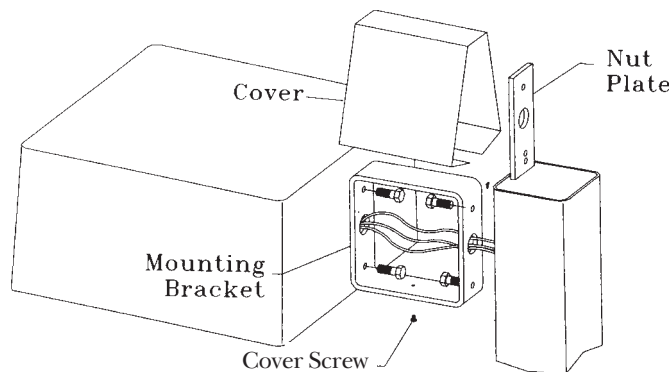
A

ORDERING NUMBER LOGIC

SPMM	15	S	0	H	1	G	MC3	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
SPMM = Square Pole Mount	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH or Merc Standard: Medium base lamp installed in socket	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 NOTE: Dual voltage connected for lower voltage	See Ballast and Photometric Selection Table A = Autoreg D = Bi-Level G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg (Use only for 50, 70, 100, 150 watt HPS 480 volt)	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	A = Acrylic 2-in. (51mm) Drop Lens G = Flat Tempered Glass L = Polycarbonate 2-in. (51mm) Drop Lens (Required for Switched Quartz)	See Ballast and Photometric Selection Table SC3 = Short Cutoff Type III SC5 = Short Cutoff Type V MC3 = Medium Cutoff Type III MC5 = Medium Cutoff Type V	AL = Aluminum BL = Black Bronze G = Gray WH = White	B = Time Delay Switched (Drop Lens only) F = Fusing (Not available with multivolt or dual voltage) Q = Non Time Delay Switched Quartz (Drop Lens only)

QUICK AND EASY INSTALLATION

(Housing access not required)

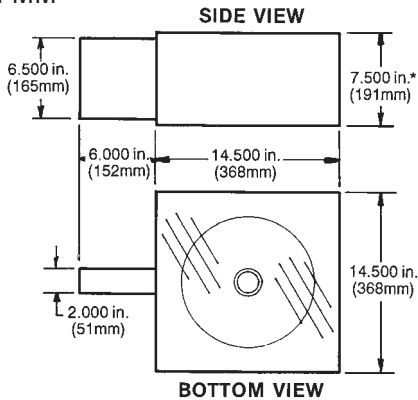


1. Pull power supply cable through nut plate hole and secure with strain relief assembly.
2. Attach mounting bracket to pole and nut plate.
3. Attach mounting bracket to luminaire housing. Pull luminaire leads into pole through wire access holes and connect leads according to wiring instructions. Install pole cap.
4. Install cover and secure with cover screw.

DECASHIELD® 175 LUMINAIRE

FIXTURE DIMENSIONS

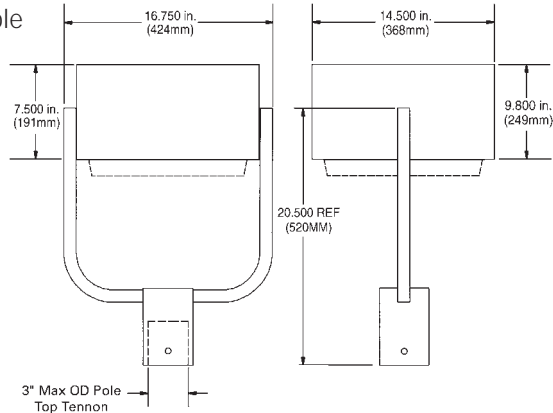
SPMM



*WITH DROP LENS ADD 2.000 in. (51mm)

SYMM

For mounting on 3.000 in. (76mm) pole tenon



DECASHIELD 175 AREA LIGHTING

A

DATA

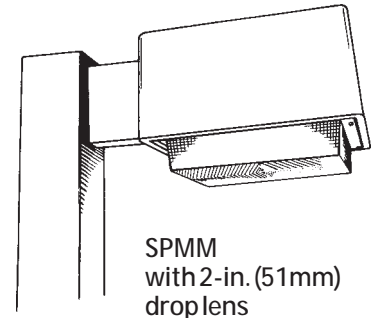
Approximate Net Weight	20 lbs	9 kgs
Suggested Mounting Height	12-20 ft.	4-6 M
Effective Projected Area	1.0 sq ft max	0.09 sq M max

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage					Amb. °C	Photometric Curve Number 35-17 - - - -				
		60Hz				50Hz		2-in. (51mm) Drop		IES Distribution Type		
		Multi-volt	120, 208 240, 277 480	347, 120X347	220	220		Flat Glass	Acrylic	Polycarb.	MC 3	SC5**
SPMM												
50	HPS	H	H	H	N/A	N/A	25	8265	8307	8305	8306	
70, 100, 150 (55V)	HPS	H	G, H*, M	H	N/A	H	25	8265	8307	8305	8306	
70, 100	MH	H	H	C/F	N/A	N/A	25	8271	8665	8666	8667	
175	MH	A	A	A	A	A	25	8271	8665	N/A	N/A	
SYMM												
50	HPS	H	H	H	N/A	N/A	25	8526	8522	N/A	N/A	
70, 100, 150 (55V)	HPS	H	G, H*, M	H	N/A	H	25	8526	8522	N/A	N/A	
70, 100	MH	H	H	C/F	N/A	N/A	25	8527	8524	N/A	N/A	
175	MH	A	A	A	A	A	25	8527	8524	N/A	N/A	

NOTE: N/A = Not Available C/F = Contact Factory
 NOTE: * 480 volt is A or M
 NOTE: ** Coated lamp standard for SC5



REFERENCES



See Page A-16 for start of Accessories.
 See Page A-22 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

DIMENSION™ 1000 LUMINAIRE

APPLICATIONS

- High wattage site lighting including parking areas, malls and shopping centers
- Commercial and industrial complexes, and automobile lots

SPECIFICATION FEATURES

-   1598 Listed
- **Suitable For Wet Locations**
- Precision engineered aluminum housing featuring die-cast ends and die-cast door
- Polyester powder paint finish standard in dark bronze, black, white, charcoal gray and aluminum
- No-tool access stainless steel latch design
- SAG glass lens for a variety of distributions and appearances
- Vertical lamp distributions
- All reflectors are designed for vertical base-up optics, and are field rotatable/ interchangeable
- Enclosed and gasketed housing with activated charcoal filtered optical system
- Choice of mountings including Decorative Mounting Arm (4 in. [103mm], 8 in. [206mm] or 12 in. [305mm]) (Drilling templates are the same for the Decashield® 400 and Decashield® 1000 luminaires.)
- Removable ballast tray (standard)
- Mogul base socket – E39 standard



DIMENSION 1000 AREA LIGHTING

A

ORDERING NUMBER LOGIC

DKA	40	S	1	A	2	S	S	DB	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	DISTRIBUTION TYPE	COLOR	MOUNTING ARM LENGTH	OPTIONS
XXX	XX	X	X	X	X	X	X	XX	X	XXX
DKA = Dimension 1000 Luminaire with Arm Mounting DKY = Dimension 1000 Luminaire with Yoke Mounting (Not UL)	25 = 250 40 = 400 75 = 750 01 = 1000	S = HPS M = MH P = Pulse Start MH Standard: Mogul base lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: 120X347 connected for 120V	See Ballast Selection Table A = Autoreg D = Bi-Level (See Technical Section) G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	See Photometric Selection Table G = Flat Glass S = SAG Glass	See Photometric Selection Table A = Asymmetric F = FWT L = Long and narrow asymmetric roadway distribution S = Square narrow (cutoff) parking distribution Q = Square wide	AL = Aluminum BL = Black DB = Dark Bronze (Standard) CG = Charcoal Gray WH = White NOTE: Contact Factory for RAL colors.	1 = 4 in. (102mm) for Singles Two at 180° 2 = 12 in. (305mm) for Two at 90° Tri-Fixture Poles 3 = 8 in. (203mm) for Singles Two at 180° 4 = 4 in. (102mm) for Round Pole 5 = 12 in. (305mm) for Round Pole 6 = 8 in. (203mm) for round Pole R = No arm. Housing drilled with diagonal hole pattern	A = Lightning Arrester, Grounding Type B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type Q = Non-Time Delay Automatically Switched Quartz

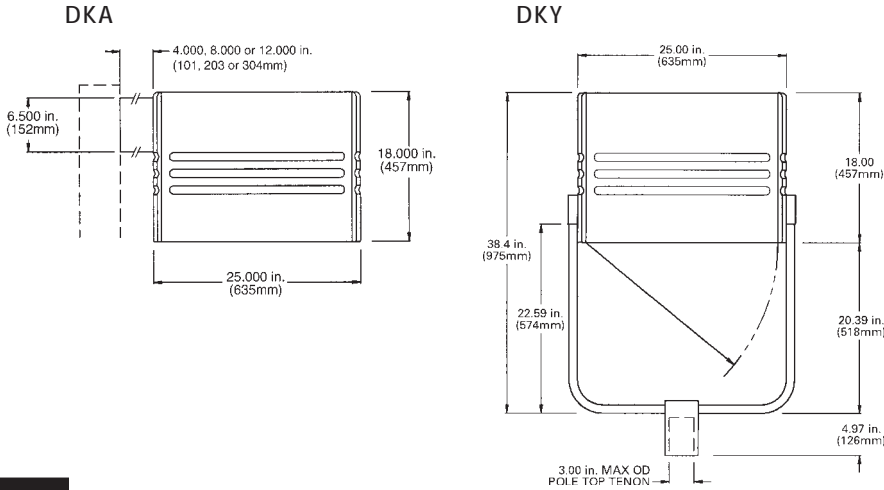
PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

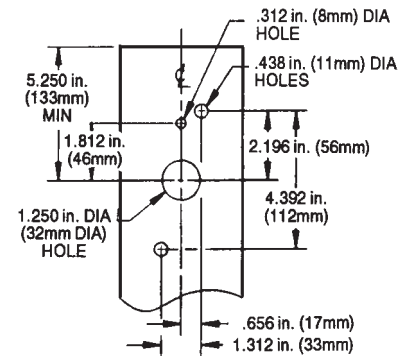
Wattage	Light Source	Cutoff Optics			Non-Cutoff	
		Asymmetric 'A'	Forward Throw 'F'	Square 'S'	Long Roadway 'L'	Square 'Q'
250-400	HPS	S-C-II (451124)	S-C-III (450983)	M-N-I (450721)	M-N-I (450728)	N/A
750	HPS	S-C-II (451123)	S-C-III (450984)	M-N-I (450719)	S-N-1 (450726)	N/A
1000	HPS	NA	S-C-III (450985)	N/A	S-N-1 (450724)	M-N-V (450717)
250	MH,PMH	NA	S-C-II (450986)	S-C-V (450722)	L-N-II (450729)	N/A
400	MH,PMH	M-C-III (451120)	S-C-IV (450987)	S-C-V (450720)	M-N-I (450727)	N/A
1000	MH,PMH	M-C-III (451117)	S-C-IV (450988)	S-C-V (450712)	M-N-II (450714)	S-S-IV (450791)
1000	MH,PMH (Coated)	S-C-III (451119)	S-C-IV (450989)	S-C-V (450713)	S-N-III (450715)	N/A

DIMENSION™ 1000 LUMINAIRE

FIXTURE DIMENSIONS

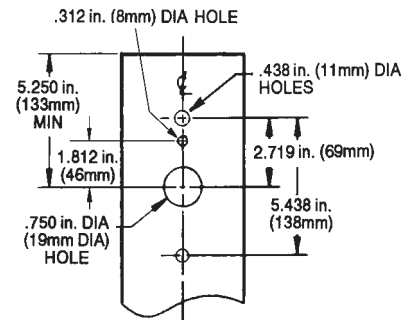


SQUARE POLE MOUNTING: STANDARD



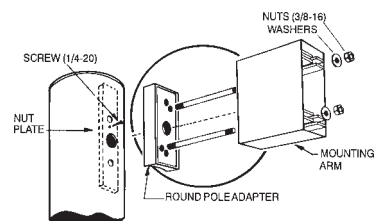
DRILLING TEMPLATE

ROUND POLE MOUNTING Must order Round Pole Adapter accessory separately



DRILLING TEMPLATE

ROUND POLE ADAPTER RPA**-DS for 3.5 to 4.5 inch (89 to 114mm) OD round pole. Replace ** with same color code as fixture



DATA

Approximate Net Weight			
1000W	68 lbs	31 kgs	
400W	64 lbs	29 kgs	
Suggested Mounting Height			
	30-50 ft.	9-15 M	
Effective Projected Area:			
With 4 in. (103mm) Mounting Arm	4.0 sq ft max	0.37 sq M max	
With 8 in. (203mm) Mounting Arm	4.1 sq ft max	0.38 sq M max	
With 12 in. (305mm) Mounting Arm	4.2 sq ft max	0.39 sq M max	

NOTE: For multiple fixtures on a pole, contact factory for estimated EPA.

BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage						
		60Hz				50Hz		
		Multivolt	120,208,240,277,480	120x347	347	220	230	240
250	HPS	A,M	A,M,G,B	A,G	A,G	N/A	N/A	A
400	HPS	A,M	A,M,G,B	A,G	A,G,B	N/A	N/A	A
750	HPS	H	A,B*	N/A	A	N/A	N/A	N/A
1000	HPS	A	A	N/A	A	A	A	A
250	MH	A	A,B**	A	A,B	N/A	N/A	N/A
400	MH	A	A,B	A,P	A,G,P	N/A	N/A	A
1000	MH	A	A,B	N/A	A,B	A	A	A
PULSE START METAL HALIDE								
250	P (MH)	A	A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A,B***	N/A	N/A	N/A	N/A	N/A
1000	P (MH)	A	A	N/A	A	N/A	N/A	N/A

N/A = Not Available. *120V not available in Bi-Level.

480V not available in Bi-Level. *Available in 277 & 480V only.

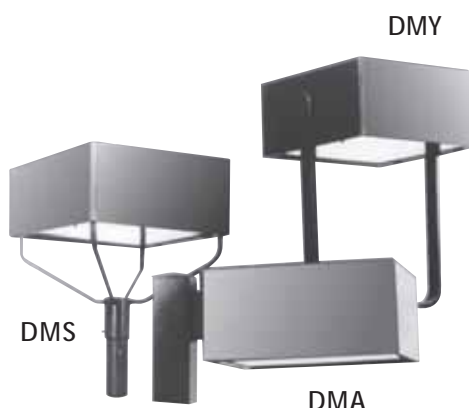
REFERENCES

See Page A-16 for start of Accessories.
See Page A-22 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

DIMENSION™ LUMINAIRE

DIMENSION AREA LIGHTING

A



APPLICATIONS

- Greater than 20 ft (6 meters) site lighting including parking areas, driveways, malls and shopping centers
- Commercial and industrial complexes, automobile lots and residential areas

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- UL Listed to Canadian National Standards and Codes
- Precision engineered aluminum housing featuring die-cast ends and die-cast door
- Polyester powder paint finish standard in dark bronze, black, white, charcoal gray and aluminum
- No-tool access stainless steel latch design
- Heat and impact resistant tempered flat glass lens
- All reflectors are field rotatable
- Enclosed, sealed and gasketed housing
- Choice of mountings including Decorative Mounting Arm (4 in. [103mm] or 12 in. [305mm]), Yoke or Spider (Drilling templates are the same for the Decashield® 400 and Decashield 1000 luminaires.)
- Removable ballast tray (standard)
- Mogul base socket – E39 socket
- Magnapack packaging available for DMA only

ORDERING NUMBER LOGIC

DMA	40	S	1	A	2	G	MC3	DB	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	DISTRIBUTION TYPE	COLOR	MOUNTING ARM LENGTH	OPTIONS
XXX	XX	X	X	X	X	X	XXX	XX	X	XXX
DMA = Dimension Luminaire with Arm Mounting	07 = 70 10 = 100 NOTE: HPS only	S = HPS M = MH P = Pulse MH Standard: Mogul base lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	A = Acrylic Prismatic Drop Lens* (250W Max) G = Glass L = Polycarbonate Prismatic Drop Lens* (250W Max) S = SAG Glass (Required for use with VTV)	See Photometric Selection Table MC2 = Medium Cutoff Type II MC3 = Medium Cutoff Type III HTV = Horizontal Type V VTV = Vertical Type V FWT = Forward Throw	AL = Aluminum BL = Black CG = Charcoal Gray DB = Dark Bronze (Standard) WH = White	1 = 4 in. (102mm) for Singles Two at 180° 2 = 12 in. (305mm) for Two at 90° Tri-Fixture Poles Quad-Fixture Poles 4 = 4 in. (102mm) for Round Pole 5 = 12 in. (305mm) for Round Pole R = No arm. Housing drilled with diagonal hole pattern	A = Lightning Arrester, Grounding Type B = Time Delay Automatically Switched Quartz C = Charcoal Filter (except on FWT and VTV) F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type Q = Non-Time Delay Automatically Switched Quartz
DMY = Dimension Luminaire with Yoke Mounting	15 = 150 (55V) 17 = 175		1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220							
DMS = Dimension Luminaire with Spider Mounting	25 = 250 40 = 400		50Hz 6 = 220 Y = 240 NOTE: 120X347 connected for 120V							

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Photometric Curve No. 35-17 - - - -													
		DMA						DMY						DMS	
		MC2	MC3	HTV	VTV	FWT	MC2	MC3	HTV	VTV	FWT	MC2	MC3	HTV	VTV
70, 100, 150(55V) 250, 400	HPS	8871	8875	8889	8894	8882	9229	9231	8916	8922	8928	9230	9232	8934	8940
	HPS	8872	8887	8878	8895	8883	9225	9233	8917	8923	8929	9226	9234	8935	8941
175, 250, 250PMH 400, 400PMH	MH	8873	8876	8880	8896	8885	9223	9235	8919	8925	8931	9224	9236	8937	8943
	MH	8874	8877	8881	8897*	8886	9277	9276	8920	8926*	8932	9278	9275	8938	8944*

NOTE: *Lamp required for 400 watt MH must be E-18 or ED-28 only. For Standard Lamp, you must order "S" SAG Glass lens type.

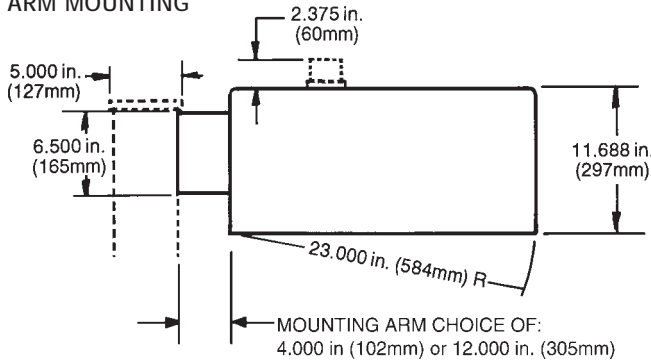
GE Lighting Systems, Inc.

www.gelighting.com

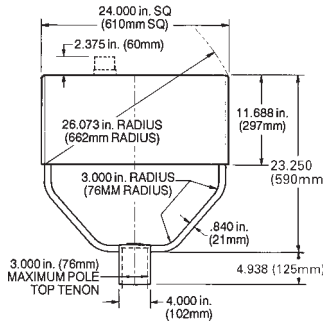
DIMENSION™ LUMINAIRE

FIXTURE DIMENSIONS

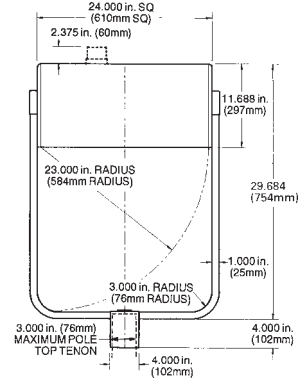
ARM MOUNTING



SPIDER MOUNTING



YOKE MOUNTING



DIMENSION AREA LIGHTING

A

DATA

Approximate Net Weight	45-60 lbs	20-27 kgs
Suggested Mounting Height	20-50 ft.	6-15 M
Effective Projected Area:		
With 4 in. (103mm) Mounting Arm	2.2 sq ft max	0.20 sq M max
With 12 in. (305mm) Mounting Arm	2.4 sq ft max	0.22 sq M max
Yoke Mounted	3.8 sq ft max	0.35 sq M max
Spider Mounted	2.9sq ft max	0.27 sq M max

BALLAST SELECTION TABLE

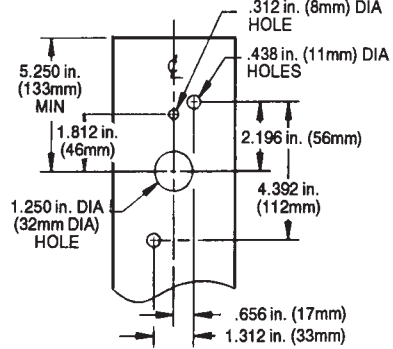
Wattage	Light Source	Ballast Type/Voltage						
		60Hz					50Hz	
		Multivolt	120	208,240, 277,480	347, 120X347	220	220	240
70,100,150(55V)	HPS	H	GHM	GM	H	N/A	N/A	N/A
250,400	HPS	A	A	A	A	A	A	A
175	MH	A	A	A	A	N/A	N/A	N/A
250,400	MH	A	A,P	A,P	A,P	A	A	A
250,400	PMH	A	A	A	A(347)	N/A	N/A	N/A

NOTE: C/F=Contact Factory, N/A=Not Available

REFERENCES

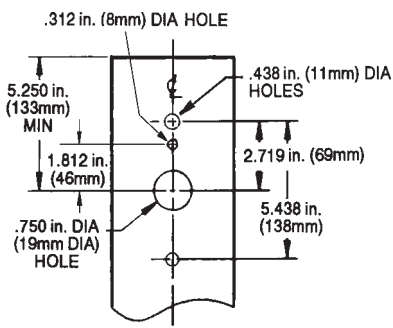
See Page A-16 for start of Accessories.
 See Page A-22 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

SQUARE POLE MOUNTING: STANDARD (choices 1, 2, 3 from Logic Table)



DRILLING TEMPLATE

ROUND POLE MOUNTING 3.5 to 4.5-inch (89 to 114mm) OD round pole mounting arm (choices 4, 5, 6 from Logic Table)



DRILLING TEMPLATE

DECASPHERE™ LUMINAIRE

DECASPHERE AREA LIGHTING

A



APPLICATIONS

- Greater than 20 ft (6 meters) site lighting including parking areas, driveways, malls and shopping centers
- Commercial and industrial complexes, automobile lots, residential areas and street lighting

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Wet Locations
- Spun aluminum housing and die-cast door
- Polyester powder paint finish standard in dark bronze, black, white and aluminum
- Heat and impact resistant tempered flat glass and SAG glass lenses
- Vertical lamp square distribution reflector with SAG glass only
- All reflectors are field rotatable
- Enclosed, sealed and gasketed optical
- Choice of 6-inch (152mm) arm or tenon top mounting
- Terminal Board (Standard)
- Mogul base socket – E39 socket
- Magnapack packaging available
- Ballast tray standard

ORDERING NUMBER LOGIC

DCF	40	S	1	A	2	G	MC3	DB	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	DISTRIBUTION TYPE	COLOR	MOUNTING	OPTIONS
XXX	XX	X	X	X	X	X	XXX	XX	X	XXX
DCF = Decasphere Luminaire Flat Top	07 = 70 10 = 100 NOTE: HPS only	S = HPS M = MH P = Pulse MH	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	G = Flat Glass S = SAG Glass	See Ballast and Photometric Selection Table MC2 = Medium Cutoff Type II (flat or SAG glass) MC3 = Medium Cutoff Type III (flat or SAG glass) FWT = Forward Throw (flat or SAG glass) HTV = Horizontal Type V (flat or SAG glass) SQA = Square Type V- requires vertical lamp (SAG glass only)	AL = Aluminum BL = Black CG = Charcoal Gray DB = Dark Bronze (Standard) WH = White AB = Aluminum (Black Reveal) BW = Black (White Reveal) DW = Dark Bronze (White Reveal) DK = Dark Bronze (Black Reveal) WB = White (Black Reveal) For other colors contact factory	1 = 6-in. (152mm) arm R = No Arm (For use with Top Tennon Accessory)	C = Charcoal Filter (except on FWT) F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type N = Suitable for high vibration applications, such as bridges and overpasses (tested to 3g vibration) (DCF only)
D CD = Decasphere Luminaire Dome	15 = 150 (55V) 17 = 175 25 = 250 40 = 400	Standard: Mogul base lamp not included.	1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 NOTE: 120X347 connected for 120V							

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage							Photometric Curve Number 35-17 - - - -				
		60Hz							IES Distribution Type				Vertical Lamp Saggd Glass Only
		Multivolt	120	208	240	277	347 120x347	480	MC2	MC3	FWT	HTV	
70, 100, 150 (55V)	HPS	H	H, M	M	M	M	M	M	9523	9530	9520	9534	9526
250, 400	HPS	A, M	A, G, M	A, H, M	A, H, M	A, M	A, G, M	A, M	9519	9529	9518	9533	9308
175, 250	MH	A	A	A	A	A	A	A	9525	9532	9522	9536	9528
400	MH	A	A, P	A	A	A	A, G, P	A	9524	9531	9521	9535	9527
250	PMH	A	A	A	A	A	A(347)	A	9325	9532	9522	9536	9528
400	PMH	A	A	A	A	A	A(347)	A	9524	9531	9521	9535	9527

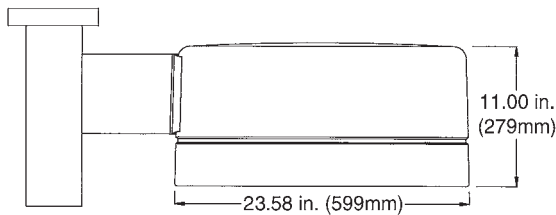
GE Lighting Systems, Inc.

www.gelighting.com

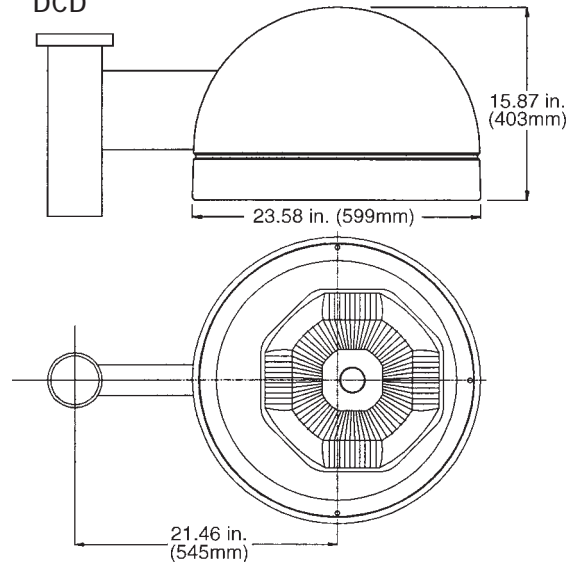
DECASPHERE™ LUMINAIRE

FIXTURE DIMENSIONS

DCF

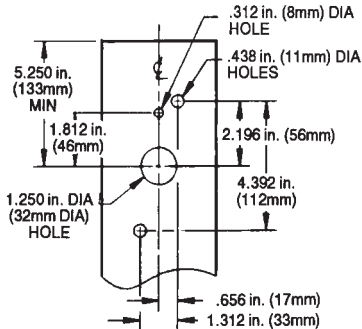


DCD

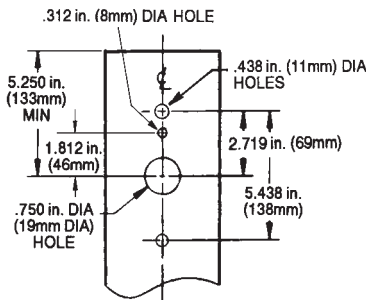


DATA

Approximate Weight	40-48 lbs	18-22 kgs
Suggested Mounting Height	20-40 ft.	6-12 M
Effective Projected Area:		
Flat Top	1.9 sq ft max	0.18 sq M max
Dome Top	1.8 sq ft max	0.17 sq M max

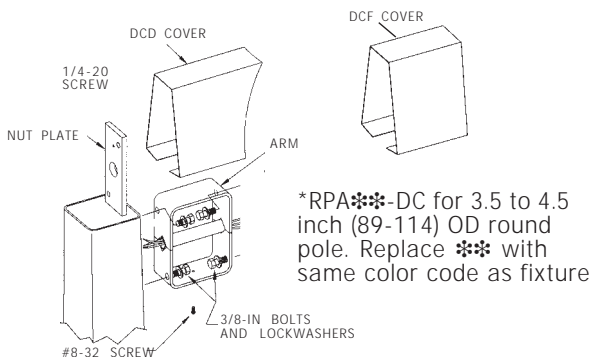


DRILLING TEMPLATE FOR SQUARE POLE MOUNTING: STANDARD



DRILLING TEMPLATE FOR ROUND POLE MOUNTING: MUST ORDER ROUND POLE ADAPTER ACCESSORY SEPARATELY*

POLE MOUNTING DETAIL:



TOP TENNON ACCESSORY (Order fixture with "R" Mount-

- D4TA**-R-SGL = Single
- D4TA**-R-D90 = Double at 90°
- D4TA**-R-D180 = Double at 180°
- D4TA**-R-T90 = Triple at 90°
- D4TA**-R-Q90 = Quad at 90°
- ** Use same color code as fixture

NOTE: Ordering Numbers are for dome top luminaires; add "F" to Ordering Number for flat top luminaires.

REFERENCES

See Page A-16 for start of Accessories.
See Page A-22 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

SITELIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LEGEND: ////////////// = Accessory can be used.

INDEX	PRODUCT							
	ORDERING NUMBER	Criterion	Decashield 1000	Decashield 400	Decashield 175	Dimension 1000	Dimension	Decasphere
EXTERNAL LIGHT SHIELD								
ELS-DMA		//////				//////	//////	
ELS-DS			//////					
ELS-SP				//////				
EXTERNAL SLIPFITTER								
ESFDB-CHMX	//////							
ESFBL-DS001		//////	//////		//////	//////	//////	//////
ESFBL-DS002		//////	//////		//////	//////	//////	//////
ESFDB-DS001		//////	//////		//////	//////	//////	//////
ESFDB-DS002		//////	//////		//////	//////	//////	//////
EXTERNAL VANDAL SHIELD								
LVS-CVMX	//////							
LVS-CHMX	//////							
INTERNAL SHIELD								
IILS-CVLX	//////							
KNUCKLE FLAT SURFACE ADAPTER								
KFSABL-DS		//////	//////		//////	//////	//////	//////
KSFADB-DS		//////	//////		//////	//////	//////	//////
KNUCKLE POLE TOP ADAPTER								
KPTABL-DS		//////	//////		//////	//////	//////	//////
KPTADB-DS		//////	//////		//////	//////	//////	//////
LINE SURGE PROTECTOR, EXPULSION TYPE								
35-411749R01	//////	//////	//////		//////	//////	//////	//////
MOUNTING BRACKET (For PE)								
MB-PECTL	//////	//////	//////	//////	//////	//////	//////	//////
PHOTOELECTRIC CONTROL								
PEC0TL	//////	//////	//////	//////	//////	//////	//////	//////
PEC1TL	//////	//////	//////	//////	//////	//////	//////	//////
PEC5TL	//////	//////	//////	//////	//////	//////	//////	//////
POLE TOP ADAPTER (For PE Receptacle)								
PTA-PECTL	//////	//////	//////	//////	//////	//////	//////	//////
POLE TOP TENON ADAPTER-ROUND								
PTTA-R-SGL	//////	//////	//////		//////	//////		
PTTA-R-D90	//////	//////	//////		//////	//////		
PTTA-R-D180	//////	//////	//////		//////	//////		
PTTA-R-T90	//////	//////	//////		//////	//////		
PTTA-R-T120	//////	//////	//////		//////	//////		
PTTA-R-Q90	//////	//////	//////		//////	//////		

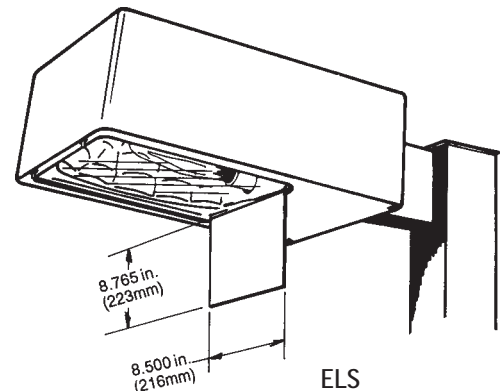
NOTE: 1 = Not DMS; 4 = SPMM only; add SPM to end of Ordering Number; 7 = SPMM only

LEGEND: ////////////// = Accessory can be used.

INDEX	PRODUCT							
	ORDERING NUMBER	Criterion	Decashield 1000	Decashield 400	Decashield 175	Dimension 1000	Dimension	Decasphere
POLE TOP TENON ADAPTER-SQUARE								
PTTA-S-SGL	//////	//////	//////	4	//////	//////		
PTTA-S-D90	//////	//////	//////	4	//////	//////		
PTTA-S-D180	//////	//////	//////	4	//////	//////		
PTTA-S-T90	//////	//////	//////	4	//////	//////		
PTTA-S-Q90	//////	//////	//////	4	//////	//////		
POLYCARBONATE VANDAL SHIELD								
LVS-DMA		//////				//////	//////	
LVS-DMA001						1		
LVS-DS			//////					
LVS-SP				//////				
ROUND POLE ADAPTER								
RPA**-DC								//////
RPA**-DS	//////	//////	//////			//////	//////	
RPA**-SP				7				
SHORTING CAP								
SCCL-PECTL	//////	//////	//////	//////	//////	//////	//////	//////
TOP TENON - ROUND AND SQUARE POLES (For Flat Top Luminaires add "F" to Ordering Number)								
D4TA**-R-SGL								//////
D4TA**-R-D90								//////
D4TA**-R-D180								//////
D4TA**-R-T90								//////
D4TA**-R-Q90								//////
WALL MOUNTING PLATE								
WMPBL-DS	//////	//////	//////		//////	//////	//////	//////
WMPDB-DS	//////	//////	//////		//////	//////	//////	//////
WMPDB-SP				7				

EXTERNAL LIGHT SHIELD

- **ELS-DMA**
Cannot use with LVS, Polycarbonate vandal shield. For use with Dimension (except DMS) Decashield 1000 (DSA) Dimension 1000 (DKA)
- **ELS-DS**
Cannot use with LVS, Polycarbonate vandal shield
- **ELS-SP**
Cannot use with LVS, Polycarbonate vandal shield



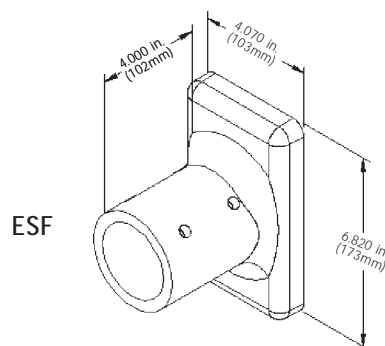
SITELIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

EXTERNAL SLIPFITTER

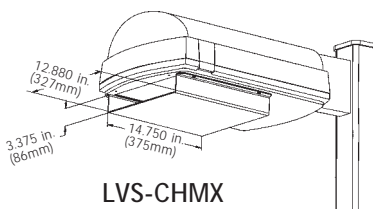
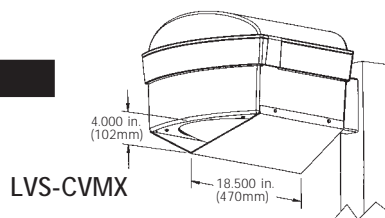
Select "R" option (Decashield 400 luminaire) or "R" mounting (Decashield 1000 and Dimension luminaires) when choosing ordering number for luminaire

- **ESF2BL**
Black for 2-inch (51mm) (2.375-inch [60mm] maximum OD) pipe
- **ESF1BL**
Black for 1 1/4-inch (32mm) (1.66-inch [42mm] maximum OD) pipe
- **ESF2DB**
Dark Bronze for 2-inch (51mm) (2.375-inch [60mm] maximum OD) pipe
- **ESF1DB**
Dark Bronze for 1 1/4-inch (32mm) (1.66-inch [42mm] maximum OD) pipe
- **ESFDB**
Dark Bronze for 2-inch (51mm) (2.375-inch [60mm] maximum OD) pipe
- **ESFDB -CHMX**
Dark Bronze for 2-inch (51mm) (2.375-inch [60mm] maximum OD) pipe



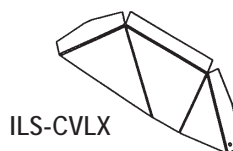
EXTERNAL VANDAL SHIELD

- **LVS-CVMX**
- **LVS-CHMX**
GELSCriterionAccessory



INTERNAL SHIELD

- **ILS-CVLX**
GELSCriterionAccessory

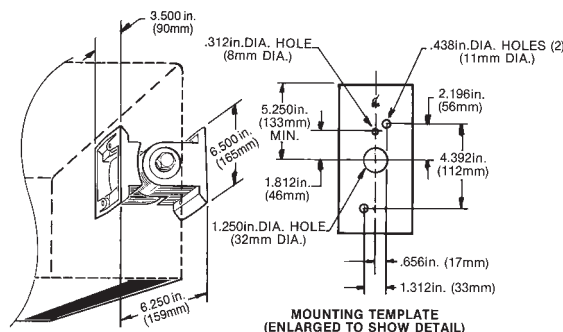


KNUCKLE FLAT SURFACE ADAPTER

Select "No Mounting Arm" option for Decashield 400, Decashield 1000, Dimension and Dimension 1000 luminaires when choosing ordering number for luminaire.

- **KFSABL-DS**
Black
- **KFSADB-DS**
Dark Bronze

NOTE: For Criterion External Slipfitter contact factory.



KNUCKLE FLAT SURFACE ADAPTER
UTILIZES SAME BOLT PATTERN AS
STANDARD MOUNTING ARM

KFSA

SITELIGHTER ACCESSORIES

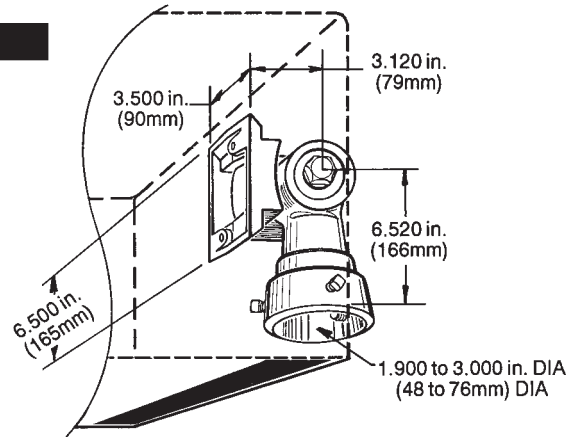
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

A

KNUCKLE POLE TOP ADAPTER

Select "R" option (Decashield 400 luminaire) or "R" mounting (Decashield 1000 and Dimension luminaires) when choosing ordering number for luminaire.

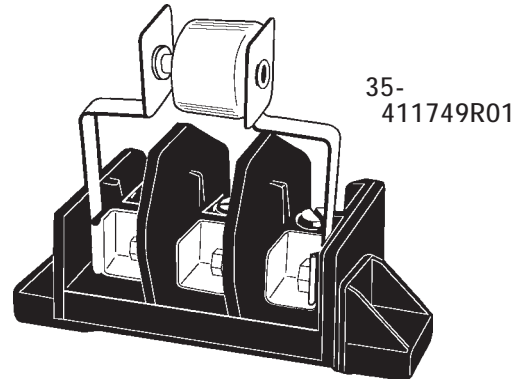
- KPTABL-DS
Black
- KPTADB-DS
Dark Bronze



KPTA

LINE SURGE PROTECTOR, EXPULSION TYPE

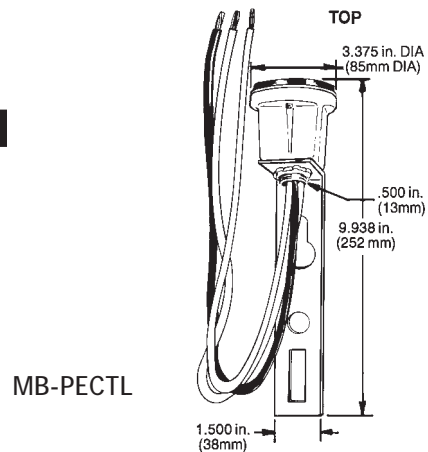
- 35-411749R01
Can be added to many fixture terminal boards.
(Terminal Board not included.)



35-411749R01

MOUNTING BRACKET (For PE)

- MB-PECTL
With locking-type receptacle for use with photoelectric control
(Remove bracket to use with conduit.)



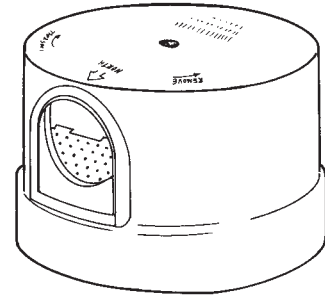
MB-PECTL

SITELIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

PHOTOELECTRIC CONTROL

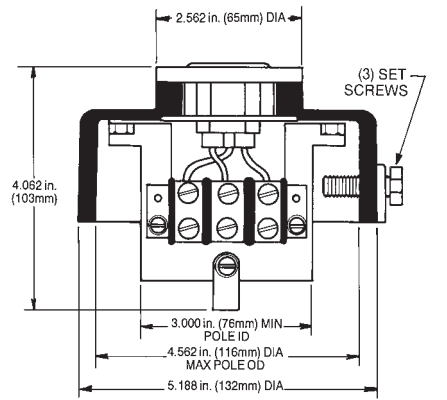
- **PEC0TL**
120, 208, 240, 277, Multivolt—Turn and Lock
- **PEC1TL**
120 volt—Turn and Lock
- **PEC5TL**
480 volt—Turn and Lock
- **PECDTL**
250 - 400 volt—Turn and Lock



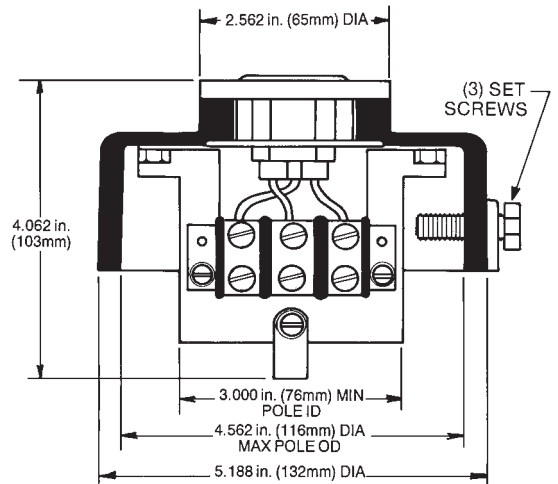
PEC

POLE TOP ADAPTER (For PE Receptacle)

- **PTA-PECTL**



PTA-PECTL

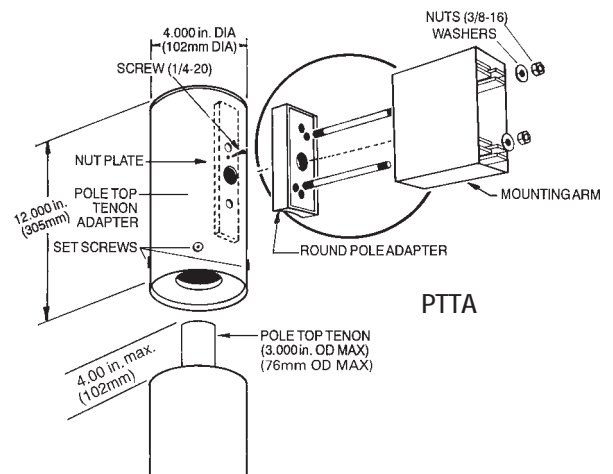


POLE TOP TENON ADAPTER—ROUND

Not available for SPM-175 luminaires.

- **PTTARS000DKBZ**
Dark Bronze—Single luminaire
- **PTTARD090DKBZ**
Dark Bronze—Double at 90°
- **PTTARD180DKBZ**
Dark Bronze—Double at 180°
- **PTTART090DKBZ**
Dark Bronze—Triple at 90°
- **PTTART120DKBZ**
Dark Bronze—Triple at 120°
- **PTTARQ090DKBZ**
Dark Bronze—Quad at 90°

NOTE: Must order round pole adapter separately (RPADB-DS or RPABL-DS).



PTTA

SITELIGHTER ACCESSORIES

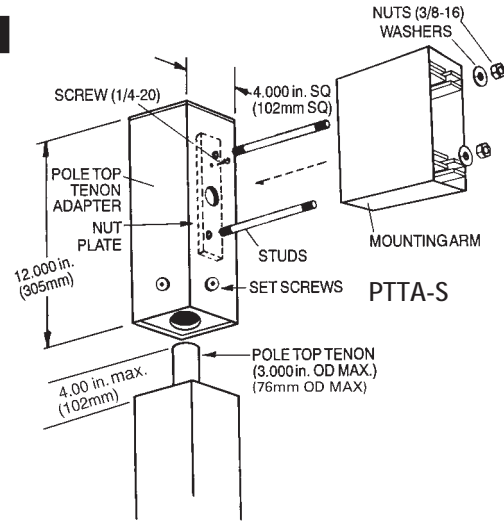
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

A

POLE TOP TENON ADAPTER—SQUARE

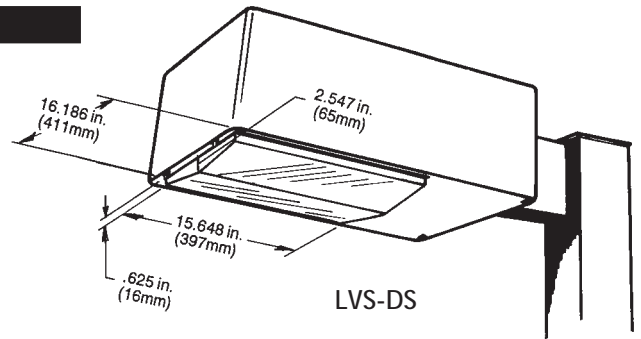
- PTTASS000DKBZ
Dark Bronze—Single luminaire
- PTTASD090DKBZ
Dark Bronze—Double at 90°
- PTTASD180DKBZ
Dark Bronze—Double at 180°
- PTTAST090DKBZ
Dark Bronze—Triple at 90°
- PTTASQ090DKBZ
Dark Bronze—Quad at 90°

NOTE: Utilizes standard Decashield® 400 luminaire mounting arms with diagonal hole pattern. For **SPMM** hole pattern add **"028"** to end of ordering number.



POLYCARBONATE VANDAL SHIELD

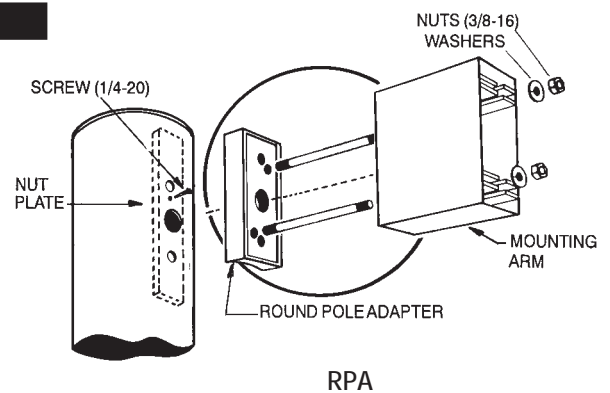
- LVS-DMA
For use with Dimension™ (except DMS) and Decashield® 1000 luminaires only.
- LVS-DMA001
For use with SAG glass only, Dimension (except DMS)
- LVS-DS (400 watt Max.)
- LVS-SP



ROUND POLE ADAPTER

Substitute color of luminaire for *** in Ordering Number.
See product pages.

- RPA***-DS (For Decashield 400, 1000, Dimension 400, 1000)
For 3.5 to 4.5-inch (89 to 114mm) OD poles
- RPA***-DS002 (For Decashield 400, 1000, Dimension 400, 1000)
For 4.0 to 6.0-inch (102 to 152mm) OD poles
- RPA***-DC (For Decasphere)
For 3.5 to 4.5-inch (89 to 114mm) OD poles
- RPA***-SP (For Decashield 175)
For 3.5 to 4.5-inch (89 to 114mm) OD poles

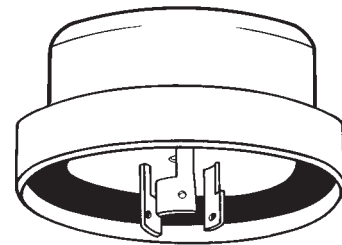


SITELIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

SHORTING CAP (With standard three-prong plug)

- SCCL-PECTL



SCCL-PECTL

TOP TENON – ROUND AND SQUARE POLES

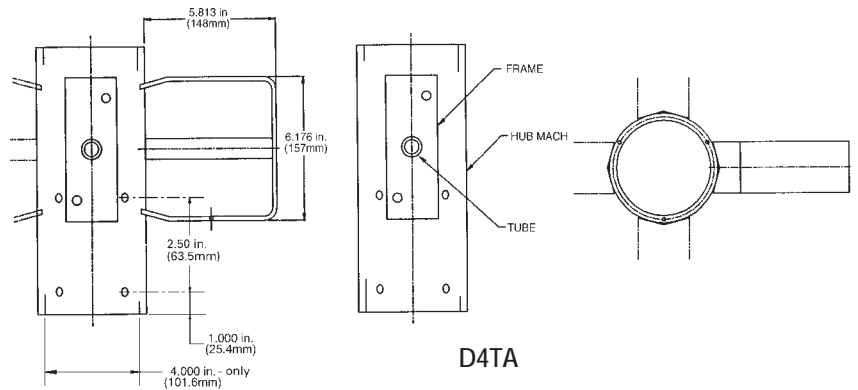
Order luminaire with "R" choice for mounting

- D4TA** -R-SGL - Single luminaire
- D4TA** -R-D90 - Double at 90°
- D4TA** -R-D180 - Double at 180°
- D4TA** -R-T90 - Triple at 90°
- D4TA** -R-Q90 - Quad at 90°

Substitute color of luminaire for ** in Ordering Number.

Example: DB = Dark Bronze (Standard)
See product pages.

NOTE: Does not require round pole adapter.
For flat top luminaire add "F" to the Ordering Number

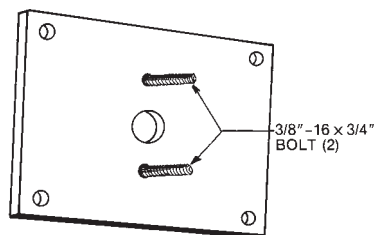
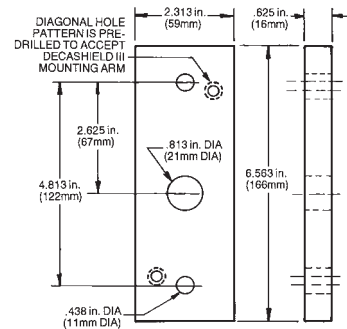


D4TA

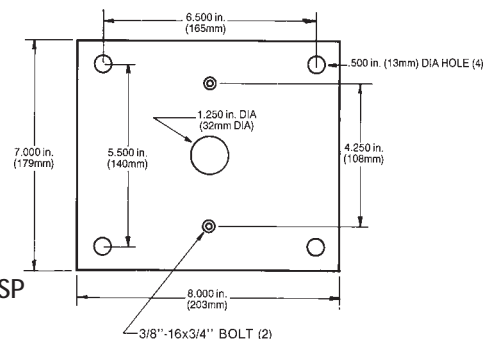
WALL MOUNTING PLATE

- WMPBL-DS Black Fits DCD & DCF
- WMPDB-DS Dark Bronze Fits DKA & DSA Criterion with arm
- WMPDB-SP (Decashield 175) Dark Bronze

WMPBL-DS
WMPDB-DS



WMPDB-SP



AREA SITELIGHTER DATA

EXPLANATION OF OPTIONS

A = LIGHTNING ARRESTER, GROUNDING TYPE

A lightning arrester directs lightning to ground.

B = TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

Most luminaires can be provided with automatically switched quartz/ instant on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same reflector with the metal halide, mercury or HPS lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output. Caution should be used when sizing branch circuits for luminaires with this option since the luminaires will draw additional current during the warm up period while both lamps (quartz and HID) are in operation. Wiring for the quartz lamp is internal to the ballast assembly and, therefore, the 120 volts to operate the quartz lamp is independent of the lighting system voltage. The 400 and 1000 watt luminaires have a socket for one 250 watt single-ended DC (Double Contact) bayonet base quartz lamp. The 250 watt and lower wattage luminaires have a socket for one 150 watt single-ended DC bayonet base quartz lamp. The lamp is not included.

C = CHARCOAL FILTER

Charcoal filter helps keep optical assembly clean - cannot be used with Forward Throw (FWT) or Vertical Type V (VTV) optics.

F = FUSING (not available with multivolt or dual voltage.)

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as

Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V or two fuses for 208V, 240V, 480V.

J = LINE SURGE PROTECTOR, EXPULSION TYPE

An expulsion device protects against transient surges caused by lightning or distribution system switching.

N = VIBRATION RESISTANT

With this option, products are suitable for high vibration applications, such as bridges and overpasses. They have been tested to 3g vibration.

Q = NON-TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

This option is similar to option "B" except the quartz lamp extinguishes once the HID lamp strikes. During a cold start of the HID lamp, the quartz lamp will not come on. This option does not draw any additional current in the circuit.

R = NO MOUNTING ARM

The luminaire is normally supplied with a mounting arm but can be ordered without one.

T = TERMINAL BOARD (when terminal board is not standard)

All internal wiring in the luminaire is completed. Internal and external electrical connectors are made on a screw terminal board.

U = UL LISTED and UL LISTED TO CANADIAN NATIONAL STANDARDS AND CODES

Equipment has passed tests by Underwriters' Laboratories and is UL 1572 Listed Suitable for Wet Locations. This option applies only to luminaires with polycarbonate refractors.

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages - 120, 208, 240 or 277.

PECONTROL

A photoelectric (PE) control allows automatic dusk-to-dawn operation of luminaires. With most luminaires, the "PE" choice includes a receptacle only; the PE itself must be ordered separately. See product and accessory pages.

ROADWAY LIGHT DISTRIBUTION PATTERNS

There are three IES (Illuminating Engineering Society) classifications used to describe the light distribution or beam pattern of a roadway luminaire or one with roadway optics.

1. S (Short), M (Medium), or L (Long) indicates how far up and down a street a luminaire directs light.
2. C (Cutoff), S (Semi-cutoff), or N (Non-cutoff) tells how much light a luminaire directs above 80° and 90° vertical.

A cutoff luminaire directs almost no light above 90°; a semi-cutoff, some light; and a non-cutoff has no restrictions on how much light might be emitted in any direction.

3. Type designations I, II, III, IV are for asymmetrical (non-circular) light distribution patterns and indicate how far a luminaire directs light across the width of the street; the higher the number, the further light is directed across the street. An IES Type V designation signifies that light is emitted in a circular (symmetrical) pattern.
















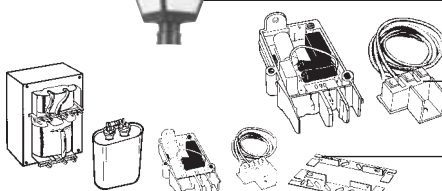
FORWARD THROW (FWT) DISTRIBUTION TYPE

Forward throw is a special cutoff roadway distribution similar to Type IV that projects more light transversely than longitudinally. Thus, the distribution is similar to that of a floodlight.

MOUNTING HEIGHT

Mounting height is generally the distance from the luminaire to the ground. For pole mounted luminaires, this may not correspond to pole height, depending on whether the luminaire is mounted directly on top of the pole, or on a yoke.

AREA DECORATIVE POST TOP INDEX

	PRODUCT NAME	PRODUCT ID.	PAGE
	StreetDreams™ Traditional	T	A-24
	StreetDreams™ Prismatic	P	A-26
	StreetDreams™ Avery	A	A-28
	StreetDreams™ Lantern	L	A-30
	StreetDreams™ Vandermore	V	A-32
	GE Torch™	T2H	A-34
	GE Patriarch™	PTR	A-36
	Americana™	AM8, AM9	A-38
	GE Edison® V	EDV	A-40
	GE Constitution™	CNS	A-42
	GE Legacy™	LGC	A-44
	Post Mount	P16M, P17M	A-46
	Salem™ Lower Lamp	SEML	A-48
	Salem™ Top Lamp	SEMT	A-50
	Town and Country™	T10C, T10R	A-52
	Replacer Ignitor Kit		R-44
	Replacer Ballast Kits	GERB	R-45
	Decorative Post Top Accessories		A-54
	Decorative Post Top Data and Photometric Selection Tables		A-58
	Globe Availability Key		A-59

STREETDREAMS™ POST TOP Traditional Series



APPLICATIONS

- Residential roadway, walkways, historic urban settings, shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

- /UL 1598 Listed
- Suitable For Wet Locations
- Crown and Rib (C&R) accessories available
- Multiple finial choices
- Tool-less removable door for access to ignitor and PE receptacle
- Twist-off globe for easy access to lamp and electricals
- Electricals mounted on "twist-and-lift" system for easy maintenance
- Polyester powder painted with choice of 188 colors
- Ornamental cast bases available in four styles
- Medium and mogul base sockets available
- Full size PE available
- Terminal board available
- Textured globe available in acrylic & polycarbonate

ORDERING NUMBER LOGIC

T	H	L	A	10	S	0	A	2	0	A	2	FG	T
FAMILY	GLOBE	MATERIAL	POD	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST	PE	CAGE	FINIAL	INTERNAL REFLECTOR	COLOR	OPTION
X	X	X	X	XX	X	X	X	X	X	X	X	XX	XXX
T = Traditional	H = Historic Traditional Symmetrical	A = Acrylic L = Lexan	A B C D	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	0 = Multi 1 = 120 2 = 280 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg N = NPF H = HPF	1 = None 2 = PE receptacle 4 = With Shorting Cap 5 = With PE Control	1 = Medallion C&R 2 = Medallion Crown only 3 = Scroll C&R 0 = None	A = Silhouette B = Acorn C = Fleur-De-Lis D = Filagree E = Blossom F = Spike G = Oak H = Steeple J = Gothic X = no finial	0 = None 1 = House and topshield 2 = Cut off-louversystem 3 = House only 4 = Top only	BL = Black FG = Forest Green DB = Dark Bronze XX = special order	F = Fusing T = Terminal board

PHOTOMETRIC SELECTION TABLE

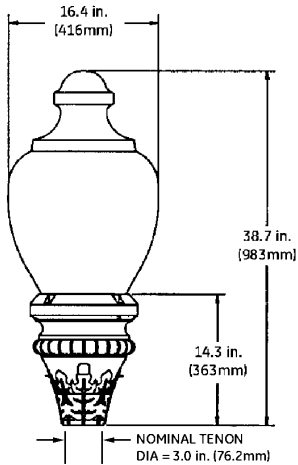
All light sources are clear unless otherwise indicated.

Traditional	Curve #				
	Globe Only	Internal Louver	Top/House shield	Top only	House Only
HPS					
50	453036	453048	453035	453034	453040
70	451426	453022	453033	453032	453043
100	451427	453070	452993	453003	452992
150	451428	453049	453020	453019	453037
250	453030	453021	453021	453031	453038
MH					
100	451424	453045	453028	453029	453039
175	451180	453044	453027	453026	453042
250	453023	453047	453024	453025	453041

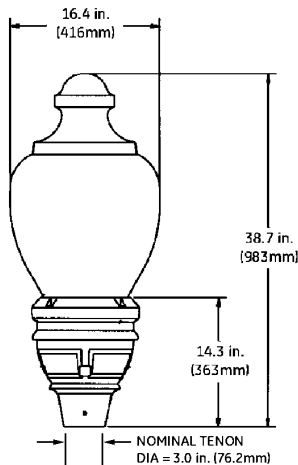
STREETDREAMS™ POST TOP Traditional Series

FIXTURE DIMENSIONS

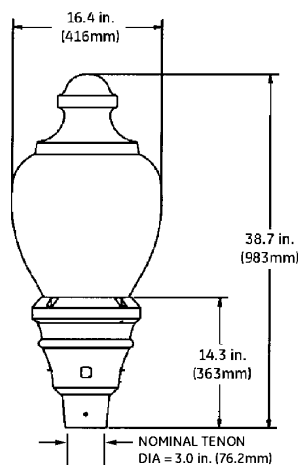
TRADITIONAL



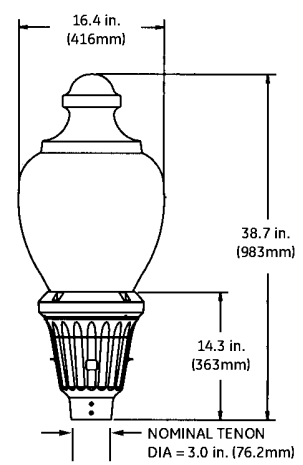
TRADITIONAL SHOWN WITH POD A



TRADITIONAL SHOWN WITH POD B



TRADITIONAL SHOWN WITH POD C



TRADITIONAL SHOWN WITH POD D

STREETDREAMS AREA LIGHTING

A

DATA

Approximate Net Weight	40 lbs	18 kgs
Suggested Mounting Height	8-16 ft.	2.5-5 M
Effective Projected Area:	1.4 sq ft max	0.13 sq M max



MEDALLION CROWN & RIB
SD-CR-M



SCROLL CROWN & RIB
SD-CR-S

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/ Voltage 60 Hz				
		120X208X 240X277	120	480	120x347	347
50	HPS	H,N	H,N	NA	NA	NA
70	HPS	H,N,A	H,N,A	H,N	NA	H,N
100	HPS	H,N,A	H,N,A	H,N	NA	H,N
150 (55v)	HPS	H,N,A	H,N,A	H,N	NA	H,N
70	MH	H,N	H,N	H,N	NA	H,N
100	MH	H,N	H,N	H,N	H,N	H,N
175	MH	A	A	A	A	A
250	MH	A	A	A	A	A

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

STREETDREAMS™ POST TOP

Prismatic Series



APPLICATIONS

- Residential roadway, walkways, historic urban settings, shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Tool-less removable door for access to ignitor and PE receptacle
- Twist-off globe for easy access to lamp and electricals
- Electricals mounted on "twist-and-lift" system for easy maintenance
- Crown and Rib accessories available
- Multiple finial choices
- Powder painted with choice of 188 colors
- Ornamental cast bases available in four styles
- Medium and mogul base sockets available
- Full size PE available
- Terminal board available.
- Symmetric and Asymmetric globes available
- Multiple tops for desired aesthetics

ORDERING NUMBER LOGIC

P	A	L	A	10	S	0	A	2	C	0	A	2	FG	T
FAMILY	GLOBE	MATERIAL	POD	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST	PE	TOP	CAGE	FINIAL	INTERNAL REFLECTOR	COLOR	OPTION
X	X	X	X	XX	X	X	X	X	X	X	X	X	XX	XXX
P = Prismatic	A = Asymmetric Prismatic S = Symmetric Prismatic	A = Acrylic L = Lexan	A B C D	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	0 = Multi 1 = 120 2 = 280 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg N = NPF H = HPF	1 = None 2 = PE receptacle 4 = With Shorting Cap 5 = With PE Control	C = Colony H = Classic K = Colonial 2(1) L = Lindy S = Scroll T = Traditional	1 = Medallion Crown & Rib (C&R) 2 = Medallion Crown only 3 = Scroll C&R 0 = None	A = Silhouette B = Acorn C = Fleur-De-Lis D = Filagree E = Blossom F = Spike G = Oak H = Steeple J = Gothic X = no finial	0 = None 1 = House and topshield 2 = Cut off louver system 3 = House only 4 = Top only	BL = Black FG = Forest Green DB = Dark Bronze XX = special order	F = Fusing T = Terminal board

(1) No Finials Available

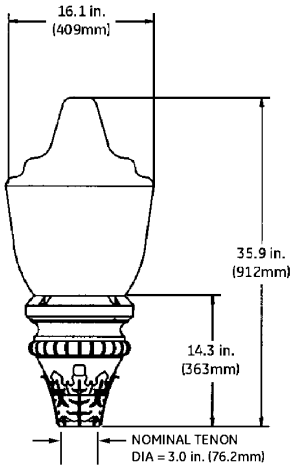
PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

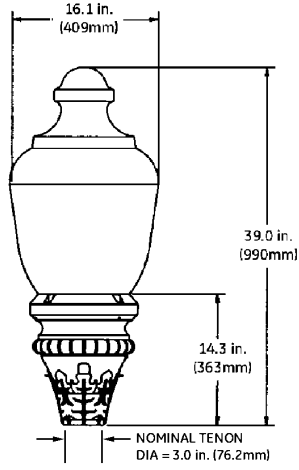
Colony Prismatic Asymmetric		Lindy Prismatic Asymmetric		Traditional Prismatic Asymmetric		Colonial 2 Prismatic Asymmetric	
	Solid Top		Prismatic Top		Textured Top		Textured Top
HPS		HPS		HPS		HPS	
70	452110	70	453056	70	453077	70	453093
100	452090	100	453058	100	453090	100	453095
150	452091	150	453054	150	453086	150	453097
250	453018	250	453016	250	453147	250	453148
MH		MH		MH		MH	
70	452109	70	453069	70	453085	70	453099
100	452088	100	453066	100	453084	100	453101
175	452089	175	453060	175	453076	175	453103
250	453067	250	453063	250	453151	250	453152
Colony Prismatic Symmetric		Lindy Prismatic Symmetric		Traditional Prismatic Symmetric		Colonial 2 Prismatic Symmetric	
	Solid Top		Prismatic Top		Prismatic Top		Prismatic Top
HPS		HPS		HPS		HPS	
70	452107	70	453059	70	453082	70	453094
100	452000	100	453057	100	453081	100	453096
150	452087	150	453051	150	453080	150	453098
250	453017	250	453055	250	453150	250	453149
MH		MH		MH		MH	
70	452108	70	453068	70	453089	70	453100
100	452085	100	453065	100	453088	100	453102
175	452086	175	453062	175	453087	175	453104
250	453064	250	453061	250	453074	250	453075

STREETDREAMS™ POST TOP Prismatic Series

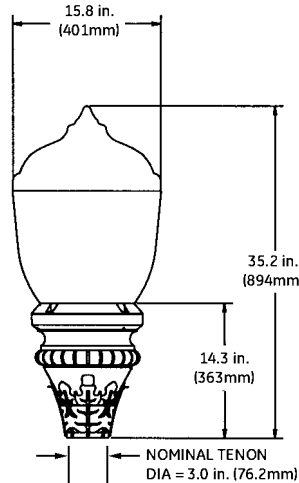
FIXTURE DIMENSIONS



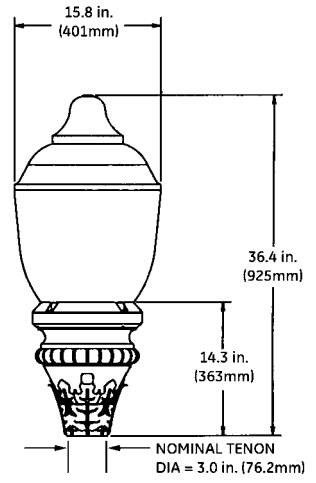
**PRISMATIC
LINDY**



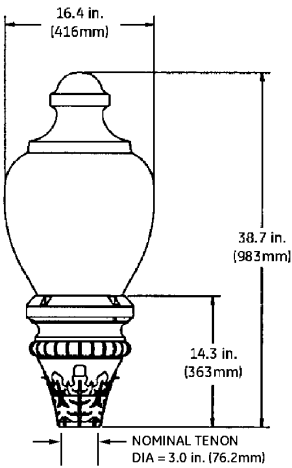
**PRISMATIC
CLASSIC**



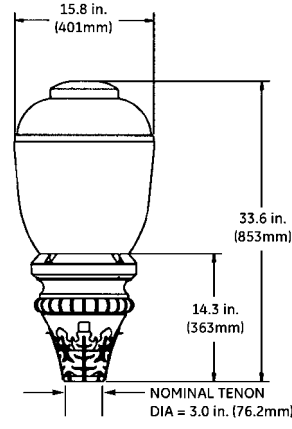
**PRISMATIC
COLONIAL 2**



**PRISMATIC
COLONY
(SOLID TOP)**

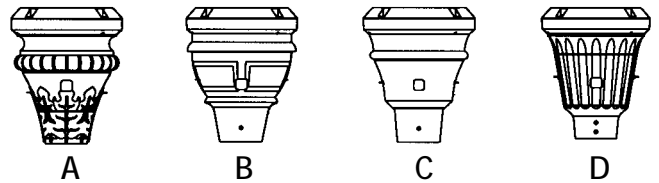


**TRADITIONAL
PRISMATIC**



**PRISMATIC
SCROLL TOP
(SOLID TOP)**

FIXTURE BASES



STREETDREAMS AREA LIGHTING

A

DATA

Approximate Net Weight	40 lbs	18 kgs
Suggested Mounting Height	8-16 ft.	2.5-5 M
Effective Projected Area:	1.4 sq ft max	0.5 sq M max

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/ Voltage				
		60 Hz				
		120X208X 240X277	120	480	120x347	347
50	HPS	H,N	H,N	NA	NA	NA
70	HPS	H,N,A	H,N,A	H,N	NA	H,N
100	HPS	H,N,A	H,N,A	H,N	NA	H,N
150 (55v)	HPS	H,N,A	H,N,A	H,N	NA	H,N
70	MH	H,N	H,N	H,N	NA	H,N
100	MH	H,N	H,N	H,N	H,N	H,N
175	MH	A	A	A	A	A
250	MH	A	A	A	A	A



**MEDALLION CROWN & RIB
SD-CR-M**



**SCROLL CROWN & RIB
SD-CR-S**

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



STREETDREAMS™ POST TOP

Avery Series

APPLICATIONS

- Residential roadway, walkways, historic urban settings, shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

- UL/ULC 1598 Listed Suitable For Wet Locations
- Crown and Rib (C&R) accessories available
- Multiple finial choices
- Tool-less removable door for access to ignitor and PE receptacle
- Twist-off globe
- “Flip” top for quick, tool-less access to lamp
- Electricals mounted on “twist-and-lift” system for easy maintenance
- Powder painted with choice of 188 colors
- Ornamental cast bases available in four styles
- Medium and mogul base sockets available
- Full size PE available
- Terminal board available

ORDERING NUMBER LOGIC

A	C	L	A	10	S	0	A	2	C	1	A	5	FG	T
FAMILY	GLOBE	MATERIAL	POD	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST	PE	TOP	CAGE	FINIAL	INTERNAL REFLECTOR	COLOR	OPTION
X	X	X	X	XX	X	X	X	X	X	X	X	X	XX	XXX
A = Avery	C = Clear F = Frosted	A = Acrylic L = Lexan	A B C D	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	0 = Multi 1 = 120 2 = 280 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg N = NPF H = HPF	1 = None 2 = PE receptacle 4 = With Shorting Cap 5 = With PE Control	C = Colony S = Scroll	1 = Medallion C&R 2 = Medallion Crown only 3 = Scroll C&R 0 = None	A = Silhouette B = Acorn C = Fleur-De-Lis D = Filagree E = Blossom F = Spike G = Oak* H = Steeple J = Gothic X = no finial * = Oak designed for scroll top	0 = None 1 = House and topshield 2 = Cut off louver system 3 = House only 4 = Top only 5 = Chimney & Sym top reflector cutoff 6 = Chimney & Asym top reflector cutoff 7 = Chimney & Sym top reflector semi-cutoff 8 = Chimney & Asym top reflector semi-cutoff	BL = Black FG = Forest Green DB = Dark Bronze XX = special order	F = Fusing T = Terminal board

(1) Induction Lamp Only

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Internal Reflector = 6	Curve #
	Clear Type 3/CO*
HPS	
50	453113
70	453114
100	453115
150	453116
MH	
70	453122
100	453123
175	453124
250	453125

Internal Reflector = 5	Curve #
	Clear Type 5/CO*
HPS	
50	453130
70	453131
100	453132
150	453133
MH	
70	453134
100	453135
175	453136
250	453137

Internal Reflector = 8	Curve #
	Clear Type 3/SCO**
HPS	
50	453117
70	453118
100	453119
150	453120
250	453121
MH	
70	453129
100	453128
175	453127
250	453126

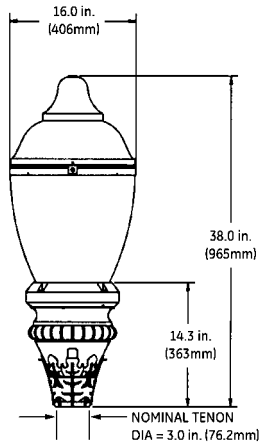
Internal Reflector = 7	Curve #
	Clear Type 5/SCO**
HPS	
50	453138
70	453139
100	453140
150	453141
250	453142
MH	
70	453143
100	453144
175	453145
250	453146

* = CO - Cutoff

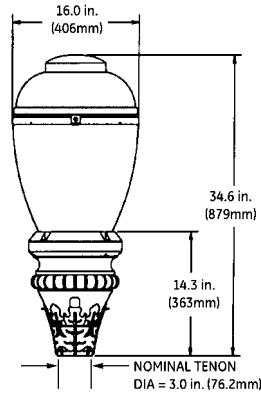
** = SCO -Semi-Cutoff

STREETDREAMS™ POST TOP Avery Series

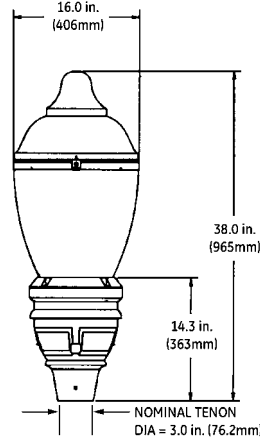
FIXTURE DIMENSIONS



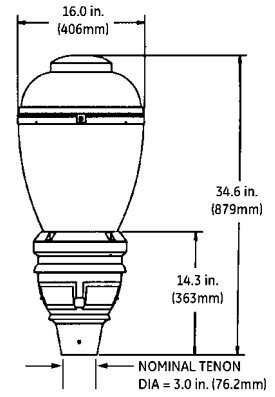
**CUTOFF
COLONY TOP
SHOWN WITH
POD A**



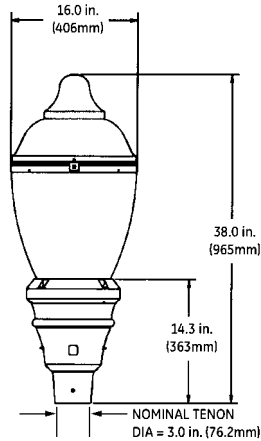
**CUTOFF
SCROLL TOP
SHOWN WITH
POD A**



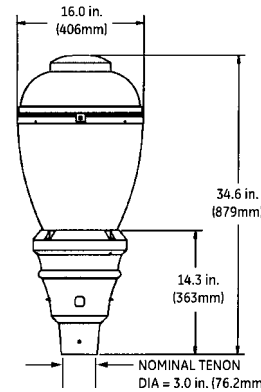
**CUTOFF
COLONY TOP
SHOWN WITH
POD B**



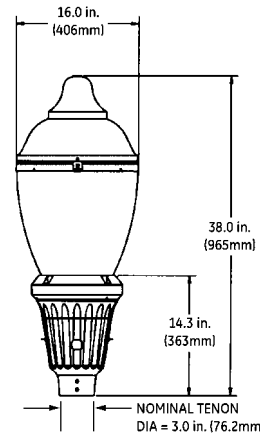
**CUTOFF
SCROLL TOP
SHOWN WITH
POD B**



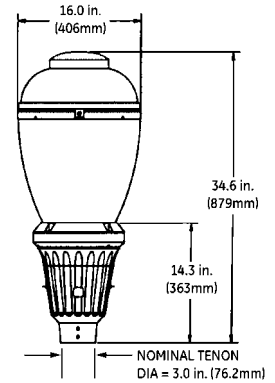
**CUTOFF
COLONY TOP
SHOWN WITH
POD C**



**CUTOFF
SCROLL TOP
SHOWN WITH
POD C**



**CUTOFF
COLONY TOP
SHOWN WITH
POD D**



**CUTOFF
SCROLL TOP
SHOWN WITH
POD D**

STREETDREAMS AREA LIGHTING

A

DATA

Approximate Net Weight	43 lbs	20 kgs
Suggested Mounting Height	8-16 ft.	2.5-5 M
Effective Projected Area:	1.4 sq ft max	0.5 sq M max

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/ Voltage 60 Hz				
		120X208X 240X277	120	480	120 x 347	347
50	HPS	H,N	H,N	NA	NA	NA
70	HPS	H,N,A	H,N,A	H,N	NA	H,N
100	HPS	H,N,A	H,N,A	H,N	NA	H,N
150(55v)	HPS	H,N,A	H,N,A	H,N	NA	H,N
70	MH	H,N	H,N	H,N	NA	H,N
100	MH	H,N	H,N	H,N	H,N	H,N
175	MH	A	A	A	A	A
250	MH	A	A	A	A	A



**MEDALLION CROWN & RIB
SD-CR-M**



**SCROLL CROWN & RIB
SD-CR-S**

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

STREETDREAMS™ POST TOP Lantern Series

APPLICATIONS

- Residential roadway, walkways, historic urban settings, shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

Suitable For Wet Locations

- Ⓢ/Ⓢ 1598 Listed
- Suitable For Wet Locations
- Multiple finial choices
- Tool-less removable door for access to ignitor and PE receptacle
- Twist-off globe
- "Flip" top for quick, tool-less access to lamp
- Electricals mounted on "twist-and-lift" system for easy maintenance

- Powder painted w/choice of 188 colors
- Ornamental cast bases available in four styles
- Medium and mogul base sockets available
- Full size PE available
- Terminal board available

ORDERING NUMBER LOGIC

L	8	1	A	10	S	0	A	2	H	0	FG	T
FAMILY	GLOBE	MATERIAL	POD	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST	PE	FINIAL	INTERNAL REFLECTOR	COLOR	OPTION
X	X	X	X	XX	X	X	X	X	X	X	XX	XXX
L= Lantern	6 = Hexagonal 8 = Octagonal 9 = Octagonal with Spikes	1 = Clear Acrylic 2 = Clear Lexan 3 = Frosted Acrylic 4 = Frosted Lexan	A B C D	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	0 = Multi 1 = 120 2 = 280 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg N = NPF H = HPF	1 = None 2 = PE receptacle 4 = With Shorting Cap 5 = With PE Control	H = Steeple X = No Finial	0 = None 1 = House and top shield 2 = Cut off/louver system 3 = House only 4 = Top only 5 = Chimney & Sym top reflector cutoff 6 = Chimney & Asym top reflector cutoff 7 = Chimney & Sym top reflector semi-cutoff 8 = Chimney & Asym top reflector semi-cutoff	BL = Black FG = Forest Green DB = Dark Bronze XX = special order	F = Fusing T = Terminal board

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Hexag.	Curve #
Clear Asym/Cutoff	
HPS	
70	453153
100	453154
150	453155
250	453156
MH	
70	453177
100	453178
175	453179
250	453180

Hexag.	Curve #
Clear Sym/Cutoff	
HPS	
70	453161
100	453162
150	453163
250	453164
MH	
70	453169
100	453170
175	453171
250	453172

Octag.	Curve #
Clear Asym/Cutoff	
HPS	
70	453186
100	453187
150	453188
250	453189
MH	
70	453185
100	453218
175	453219
250	453220

Octag.	Curve #
Clear Sym/Cutoff	
HPS	
70	453210
100	453211
150	453212
250	453213
MH	
70	453229
100	453230
175	453231
250	453232

Hexag.	Curve #
Clear Asym/Semi-Cutoff	
HPS	
70	453160
100	453159
150	453158
250	453157
MH	
70	453184
100	453183
175	453182
250	453181

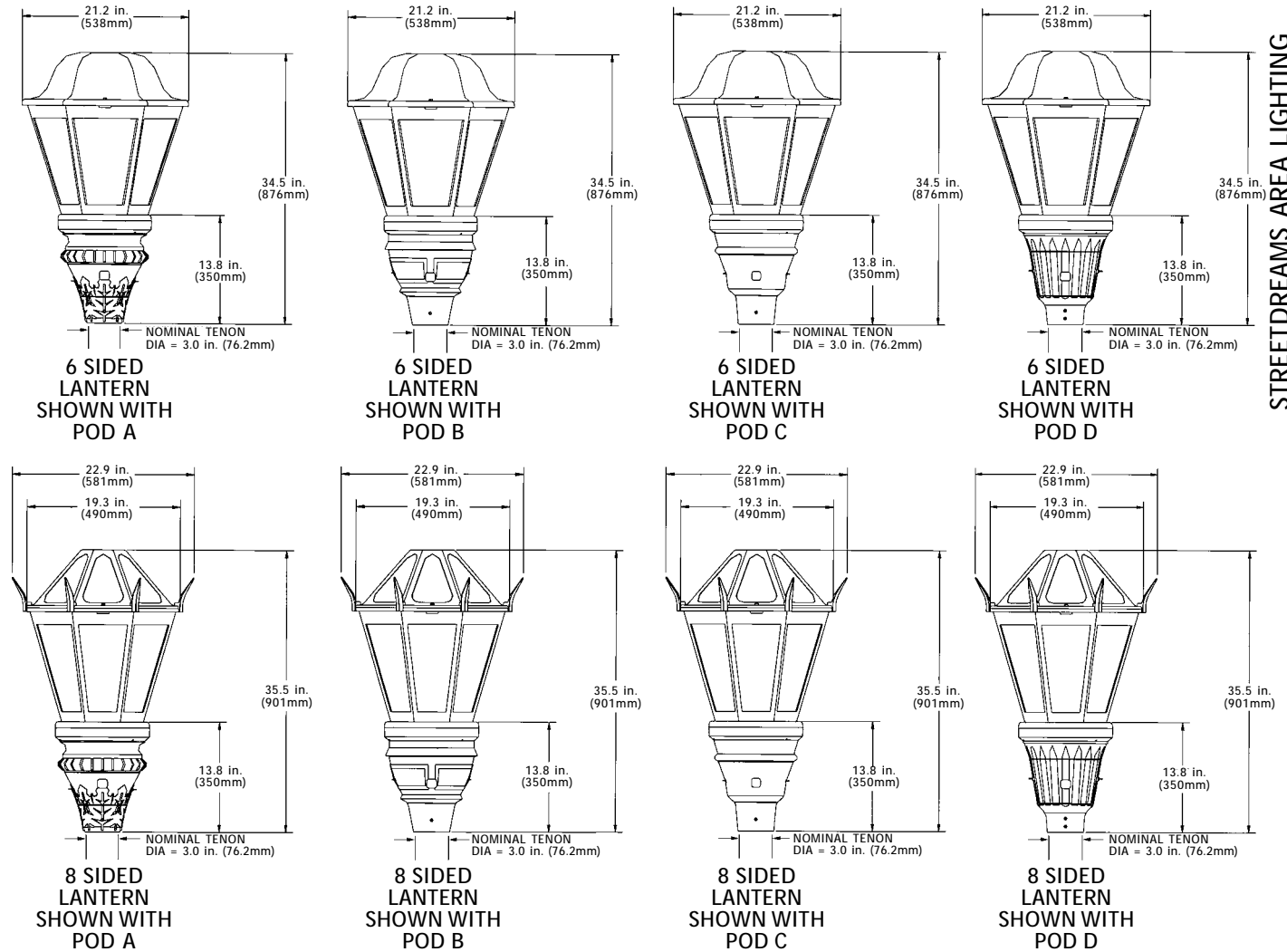
Hexag.	Curve #
Clear Sym/Semi-Cutoff	
HPS	
70	453168
100	453167
150	453166
250	453165
MH	
70	453176
100	453175
175	453174
250	453173

Octag.	Curve #
Clear Asym/Semi-Cutoff	
HPS	
70	453192
100	453193
150	453191
250	453190
MH	
70	453224
100	453223
175	453222
250	453221

Octag.	Curve #
Clear Sym/Semi-Cutoff	
HPS	
70	453217
100	453216
150	453215
250	453214
MH	
70	453225
100	453226
175	453227
250	453228

STREETDREAMS™ POST TOP Lantern Series

FIXTURE DIMENSIONS



STREETDREAMS AREA LIGHTING

A

DATA

Approximate Net Weight	47-50 lbs	21-23 kgs
Suggested Mounting Height	10-16 ft.	2-5 M
Effective Projected Area:	2.55 sq ft max	0.24 sq M max

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/ Voltage				
		60 Hz				
		120X208X 240X277	120	480	120x347	347
50	HPS	H,N	H,N	NA	NA	NA
70	HPS	H,N,A	H,N,A	H,N	NA	H,N
100	HPS	H,N,A	H,N,A	H,N	NA	H,N
150(55v)	HPS	H,N,A	H,N,A	H,N	NA	H,N
70	MH	H,N	H,N	H,N	NA	H,N
100	MH	H,N	H,N	H,N	H,N	H,N
175	MH	A	A	A	A	A
250	MH	A	A	A	A	A

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



STREETDREAMS™ VANDERMORE™ LUMINAIRE

APPLICATIONS

- Residential roadway, walkways, historic urban settings, shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- Tool-less removable door for access to ignitor and PE receptacle
- "Flip" top for quick, tool-less access to lamp
- Multiple finial choices
- Powder painted w/choice of 188 colors
- Ornamental cast bases available in four styles
- Borosilicate glass globe
- Medium and mogul base sockets available
- Full size PE available
- Terminal board available

ORDERING NUMBER LOGIC

V	9	A	D	10	S	0	A	2	J	9	BL	T
FAMILY	GLOBE	GLOBE MATERIAL	POD	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST	PE	FINIAL	INTERNAL REFLECTOR	COLOR	OPTION
X	X	X	X	XX	X	X	X	X	X	X	XX	XXX
V = Vandermore	8 = Octagonal 9 = Octagonal with Spikes	A = Asymmetric glass S = Symmetric glass	A B C D	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	0 = Multi 1 = 120 2 = 280 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg N = NPF H = HPF	1 = No PE receptacle 2 = PE receptacle with shorting cap 4 = with PE control 5 = with PE control	J = Gothic X = No finial	0 = None 3 = House-side shield only 9 = Segmented Vandermore reflector for improved optics	BL = Black FG = Forest Green DB = Dark Bronze XX = special order	B = Thumb screws on ballast plate for tool-less access F = Fusing T = Terminal board

(1) Induction Lamp Only

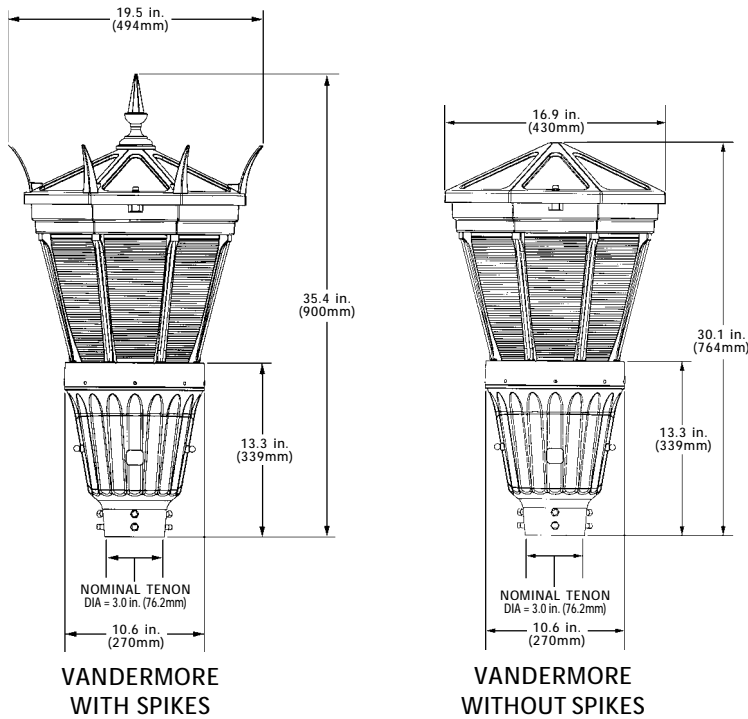
PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Vandermore	With segmented internal reflector	
	Curve #	
	Symmetric	Asymmetric
HPS		
70	453194	453201
100	453195	453200
150	453196	453199
250	453197	453198
MH		
70	453202	453209
100	453203	453208
175	453204	453207
250	453205	453206

STREETDREAMS™ VANDERMORE™ LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	60 lbs	28 kgs
Suggested Mounting Height	8 ft. - 16ft.	2.5-5 M
Effective Projected Area:	1.67 sq ft max	0.155 sq M max

BALLAST SELECTION TABLE

Wattage		Light Source	Ballast Type/ Voltage				
			60 Hz				
			120X208X 240X277	120	480	120 x 347	347
50	HPS	H,N	H,N	NA	NA	NA	
70	HPS	H,N,A	H,N,A	H,N	NA	H,N	
100	HPS	H,N,A	H,N,A	H,N	NA	H,N	
150(55v)	HPS	H,N,A	H,N,A	H,N	NA	H,N	
250	HPS	A	A	A	A	A	
70	MH	H,N	H,N	H,N	NA	H,N	
100	MH	H,N	H,N	H,N	H,N	H,N	
175	MH	A	A	A	A	A	
250	MH	A	A	A	A	A	

REFERENCES

See Page A-54 for start of Accessories.
 See Page A-58 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

GE TORCH™ II LUMINAIRE



APPLICATIONS

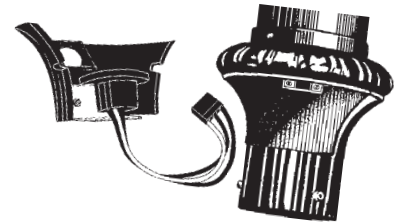
- Residential roadways, walkways, shopping centers, malls and plazas
- Historic restorations and downtown business districts

SPECIFICATION FEATURES

Suitable For Wet Locations

- Ornamental borosilicate glass globe:
 - aesthetically pleasing refractor for daytime and nighttime appeal
 - adds historic look
- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Built to /UL standards

- Ornamental heavy gage cast aluminum base
- Optional 120v Simplex receptacle available
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components:
 - Base, Optical
- Tool-less removable door for access to terminal board and PE receptacle
- Cast ring on globe for robust glass mounting
- Ballast mounted on plate for easy maintenance



ORDERING NUMBER LOGIC

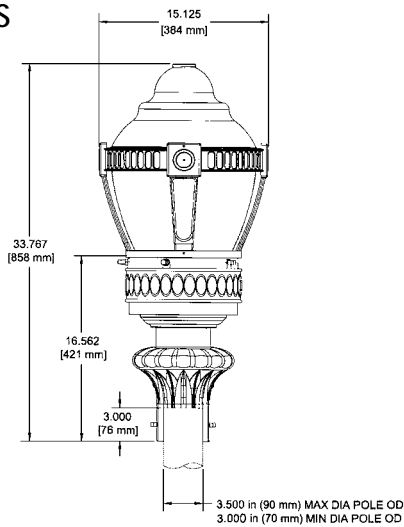
T2HX	10	S	1	N	1	2G	G	S	BLCK	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	GLOBE TYPE**	GLOBE MATERIAL	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXX	XX	X	X	X	X	X	X	X	XXXX	XXX
T2HX= Torch 2	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	S = HPS M = MH	60Hz 0 = Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	1 = None 2 = PE Receptacle	2G = Torch 2 Globe	G = Glass	A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black CHGR = Charcoal Gray DKBZ = Dark Bronze GRAY = Gray XXXX = RAL number	R = 120V Outlet U = UL

**See Photometric Selection Tables starting on Page A-60.

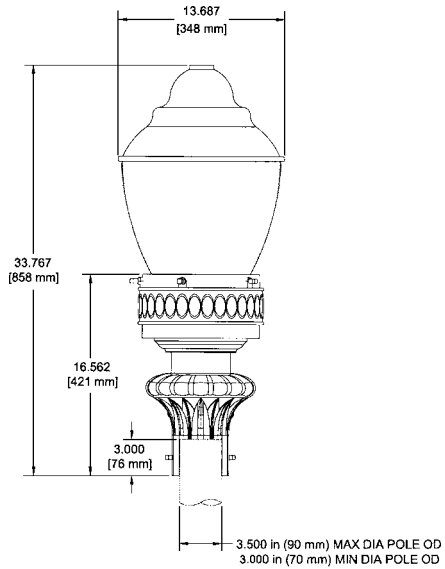
GE TORCH™ II LUMINAIRE

FIXTURE DIMENSIONS

2GG
Asymmetrical and
Symmetric Distribution
available



**TORCH II WITH
CROWN AND RIB SET**



TORCH II

DATA

Approximate Net Weight	40-45 lbs	18-20 kgs
Suggested Mounting Height	8-16 ft.	2-4 M
Effective Projected Area:	1.48 sq ft max	0.137 sq M max

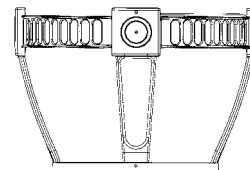
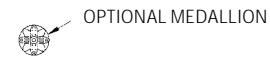
BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

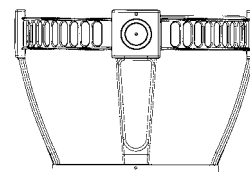
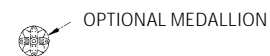
Wattage	Light Source	Ballast Type/ Voltage 60 Hz		
		120	347 120 x 347	Multivolt
50	HPS	H,N	H,N	H,N
70	HPS	H,N	H,N	H,N
100	HPS	H,N	H,N	H,N
150 (55v)	HPS	H,N	H,N	H,N
250	HPS	A	A	A
50 Med	MH	H	N/A	N/A
70 Med	MH	H,N	H,N	H,N
100 Med	MH	H,N	H,N	H,N
100Med	MH (Coated)	H,N	H,N	H,N
175	MH	A	A	A
175	MH (Coated)	A	A	A
250	MH	A	A	A
250	MH (Coated)	A	A	A

NOTE: See Photometric Selection Table starting on Page A-50

TORCH II CROWN AND RIB SET



**CRNBBL-2G
SHEETMETAL**



**CRNBBL-T2H
DIECAST ALUMINUM**

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



GE PATRIARCH™ LUMINAIRE

APPLICATIONS

- Residential roadways, walkways, shopping centers, malls and plazas
- Historic restorations and downtown business districts

SPECIFICATION FEATURES

Suitable For Wet Locations

- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Built to / standards
- Ornamental heavy gage cast aluminum base
- Optional 120v Simplex receptacle available
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Removable aluminum ballast canister with key slots and electrical disconnect which provides easy access to the ballast, capacitor and plug-in ignitor
- Entire front of base hinges open for easy access
- Accepts 9" globes

ORDERING NUMBER LOGIC

PTRX	10	S	1	N	1	1CB	S	BLCK	R
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE**	PE FUNCTION	GLOBE TYPE**	IES DISTRIBUTION TYPE**	COLOR	OPTIONS
XXX	XX	X	X	X	X	XX	X	XXXX	XXX
PTRX = Patriarch Luminaire	05 = 50 07 = 70	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 5 = 480 D = 347 F = 120X347	See Ballast and Photometric Selection Tables** A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	1AC = Traditional Prismatic (Polycarbonate & Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun aluminum top) 1HA = Classic (Acrylic) 1LD = 22" Impression (White polycarbonate) 1MA = Colony with crown & ribs installed (Acrylic with spun aluminum top)	See Ballast and Photometric Selection Tables** A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black BRWN = Brown CHGR = Charcoal Gray DKBZ = Dark Bronze FGRN = Forest Green GRAY = Gray WHITE = White	R = 120 Simplex Receptacle* F = Fused U = UL Listed (Polycarbonate Globe Required for / standards)

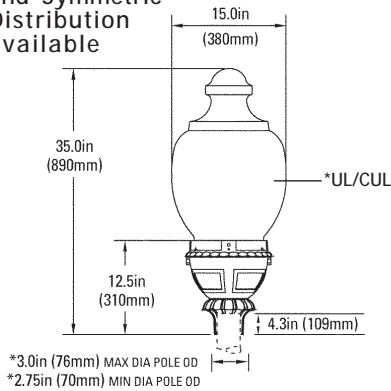
* "R" option for 120V unit only.

**See Photometric Selection Tables starting on Page A-60.

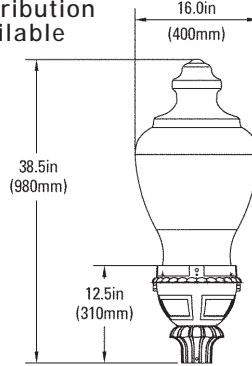
GE PATRIARCH™ LUMINAIRE

FIXTURE DIMENSIONS

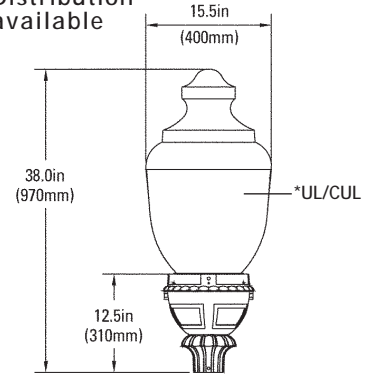
TRADITIONAL STANDARD 1CB
Asymmetrical and Symmetric Distribution available



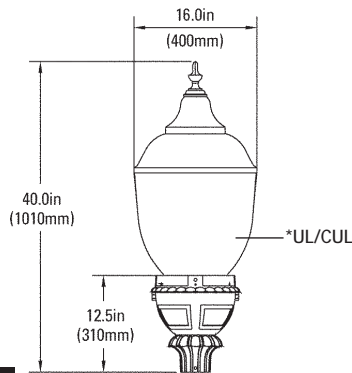
TRADITIONAL PRISMATIC 1AC
Asymmetrical and Symmetric Distribution available



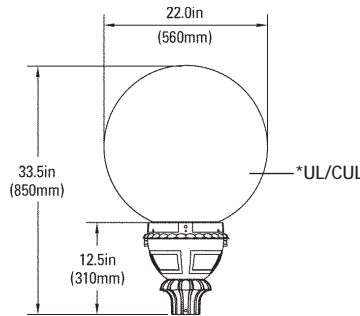
CLASSIC 1HA
Asymmetrical and Symmetric Distribution available



COLONY 1DA
Asymmetrical and Symmetric Distribution available



IMPRESSION 1LD (22")
Symmetric Distribution only



DATA

Approximate Net Weight	21-25 lbs	10-11 kgs
Suggested Mounting Height	10-16 ft.	2-5 M
Effective Projected Area:	1.6 sq ft max	0.15 sq M max

BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage			
		60Hz			
		120	347 120x347	Multivolt	480
50	HPS	H,N	H,N	H,N	N/A
70	HPS	A, H, N	H, N	H, N	H, N
100	HPS	A, H, N	H, N	H, N	H, N
150(55V)	HPS	A, H, N	H, N	H, N	H, N
70	MH	H,N	H,N	H,N	H,N
100	MH	H,N	H,N	N	H,N
175	MH	A	A	A	A

NOTE: N/A = Not Available

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

AMERICANA™ LUMINAIRE



TRADITIONAL STANDARD
(Globe Type 1CB)



TRADITIONAL PRISMATIC
(Globe Type 1AC)
Crown & Rib
Ordered Separately



ART DECO
(Globe Type 1EB)



COLONY
(Globe Type 1DA, 1MA)



CLASSIC
(Globe Type 1HA)



REVIVAL
(Globe Type 1PB)
No Finial



COLONIAL PRISMATIC
(Globe Type 1BC)
Crown Ordered Separately
No Finial

APPLICATIONS

- Residential roadways and walkways
- Shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

Suitable For Wet Locations

- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Built to UL / UL standards
- Ornamental heavy gage die cast aluminum base
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Flip top, no tool entry for fast and easy maintenance
- Accepts 8" and 9" globes

ORDERING NUMBER LOGIC

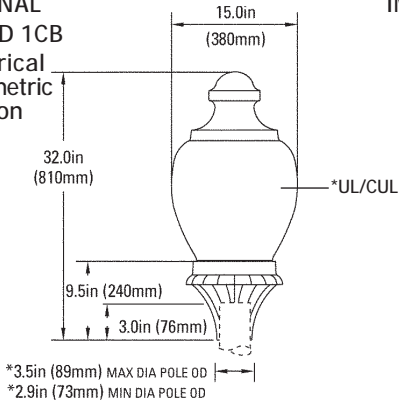
AM9X	10	S	1	N	1	1CB	S	BLCK	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE**	PE FUNCTION	GLOBE TYPE**	IES DISTRIBUTION TYPE**	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XX	X	XXXX	XXX
AM8X= 8" Americana Luminaire	05 = 50 07 = 70	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast and Photometric Selection Tables**	1 = None 2 = PE Receptacle	9" GLOBE 1AC = Traditional Prismatic* (Polycarbonate & Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun aluminum top) 1HA = Classic (Acrylic) 1LD = 22" Impression (White polycarbonate) 1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top)	See Ballast and Photometric Selection Tables** A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black BRWN = Brown CHGR = Charcoal Gray DKBZ = Dark Bronze FGRN = Forest Green GRAY = Gray WHTE = White	J = Expulsion Type Lightning Arrestor L = Safety Latch U = UL Listed (Polycarbonate Globe Required for UL / UL)
AM8F = 8" Americana Luminaire Finial Ready*	10 = 100 15 = 150 (55V) 17 = 175		1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	8" GLOBE 1AC = Traditional Prismatic* (Polycarbonate & Acrylic) 1BC = Colonial Prismatic (Polycarbonate & Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun aluminum top) 1EB = Art Deco (Polycarbonate) 1PB = Revival (Polycarbonate) 1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top) *Also available with solid or perforated upright shield			
AM9X= 9" Americana Luminaire									
AM9F = 9" Americana Luminaire Finial Ready*									
*Order Finial Separately									

**See Photometric Selection Tables starting on Page A-60.

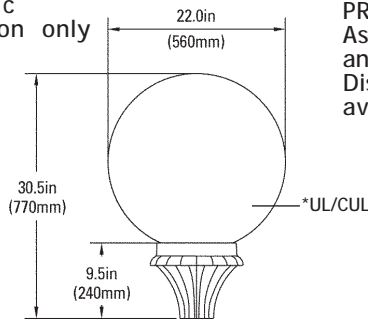
AMERICANA™ LUMINAIRE

FIXTURE DIMENSIONS

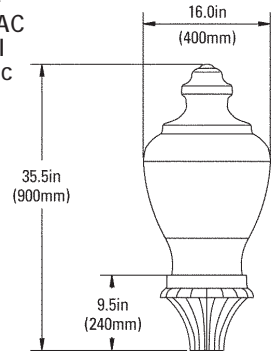
TRADITIONAL STANDARD 1CB
Asymmetrical and Symmetric Distribution available



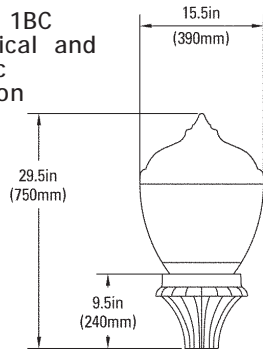
IMPRESSION 1LD (22")
Symmetric Distribution only



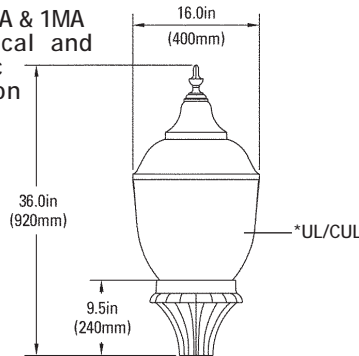
TRADITIONAL PRISMATIC 1AC
Asymmetrical and Symmetric Distribution available



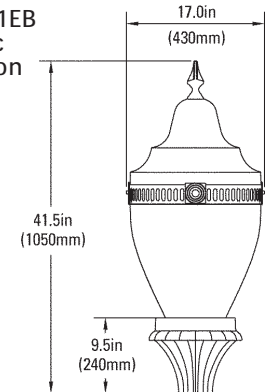
COLONIAL PRISMATIC 1BC
Asymmetrical and Symmetric Distribution available



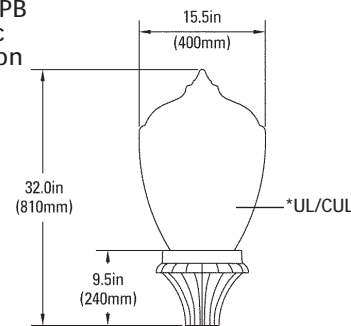
COLONY 1DA & 1MA
Asymmetrical and Symmetric Distribution available



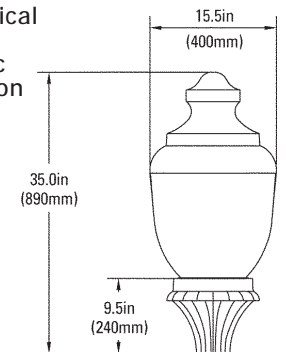
ART DECO 1EB
Symmetric Distribution only



REVIVAL 1PB
Symmetric Distribution only



CLASSIC 1HA
Asymmetrical and Symmetric Distribution available



DATA

Approximate Weight	16-20 lbs	7-9 kgs
Suggested Mounting Height	8-16 ft.	2-5 M
Effective Projected Area max	1.4 sq ft max	0.13 sq M

BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage			
		60Hz			
		120	347, 120X347**	480***	Multi-volt
50	HPS	H,N	H,N	N/A	H,N
70, 100, 150(55V)	HPS	A,H,N	H,N,A	H,N	H,N,A
70	MH	H,N	H,N	A,N	H,N
100	MH	H,N	H,N	N	H,N
175	MH(Clear)	A	A	A	A
175	MH(Coated)	A	A	A	A

**120X347 Option Available in 100 W & 175 W MH only.

*** 480V Option Available in 70W - 150 W HPS and 70 W & 100 W MH only.

Call factory for 50 Hz offering.

*UL/CUL Polycarbonate Only

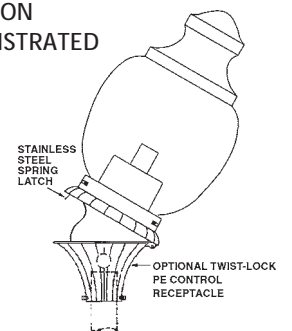
REFERENCES

See Page A-54 for start of Accessories.

See Page A-58 for Explanation of Options and Other Terms Used.

See Page P-2 Pole and Bracket Section for pole selection.

"FLIP TOP" FUNCTION DEMONSTRATED



AMERICANA AREA LIGHTING

A



GE EDISON® V LUMINAIRE

APPLICATIONS

- Residential roadways and walkways
- Shopping centers, malls and plazas

SPECIFICATION FEATURES

Suitable For Wet Locations

- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Ornamental heavy gage cast aluminum base
- Optional 120v Simplex receptacle available
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Removable aluminum ballast canister with key slots and electrical disconnect which provides easy access to the ballast, capacitor and plug-in ignitor
- Easily removable door for access to terminal board and PE receptacle
- Accepts 8" globes

ORDERING NUMBER LOGIC

EDVX	10	S	1	N	1	1CB	S	BLCK	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE**	PE FUNCTION	GLOBE TYPE**	IES DISTRIBUTION TYPE**	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XX	X	XXXX	XXX
EDVX = 8" Edison Luminaire	05 = 50 07 = 70	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast and Photometric Selection Tables**	1 = None 2 = PE Receptacle	1AC = Traditional Prismatic (Polycarbonate & Acrylic) 1BC = Colonial Prismatic (Polycarbonate & Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun aluminum top) 1EB = Art Deco (Polycarbonate) 1FB = Art Deco with Ribs (Polycarbonate) 1KD = 18" Impression (White Polycarbonate) 1PB = Revival (Polycarbonate) 1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top)	See Ballast and Photometric Selection Tables** A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black BRWN = Brown CHGR = Charcoal Gray DKBZ = Dark Bronze FGRN = Forest Green GRAY = Gray WHTE = White	R = Simplex Outlet 120V unit only
EDVF = 8" Edison Luminaire Finial Ready*	10 = 100 15 = 150 (55V) 17 = 175		1 = 120 5 = 480 D = 347 F = 120X347	A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag					

**See Photometric Selection Tables starting on Page A-60.

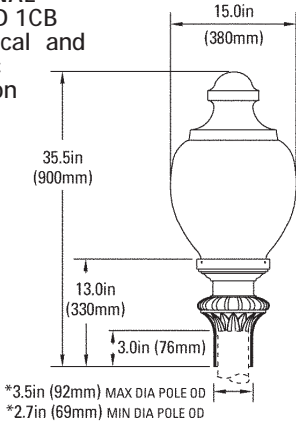
REFERENCES

- See Page A-54 for start of Accessories.
 See Page A-58 for Explanation of Options and Other Terms Used.
 See Page P-2 Pole and Bracket Section for pole selection.

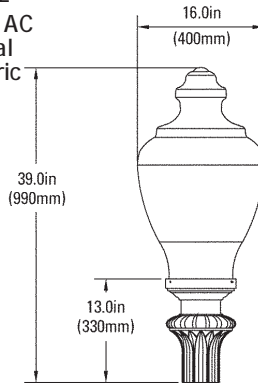
GE EDISON® V LUMINAIRE

FIXTURE DIMENSIONS

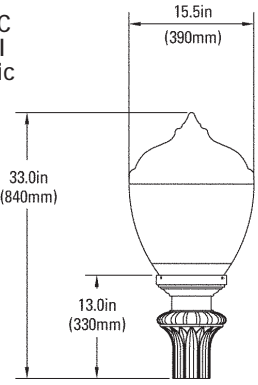
TRADITIONAL STANDARD 1CB
Asymmetrical and Symmetric Distribution available



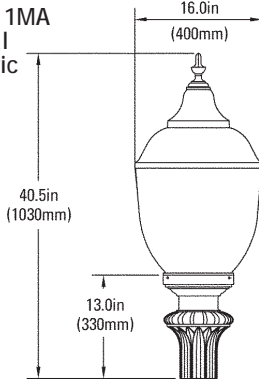
TRADITIONAL PRISMATIC 1AC
Asymmetrical and Symmetric Distribution available



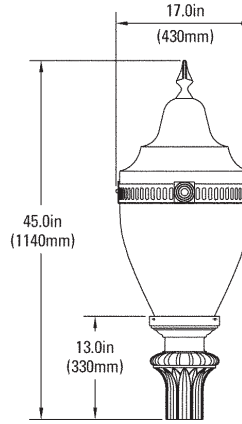
COLONIAL PRISMATIC 1BC
Asymmetrical and Symmetric Distribution available



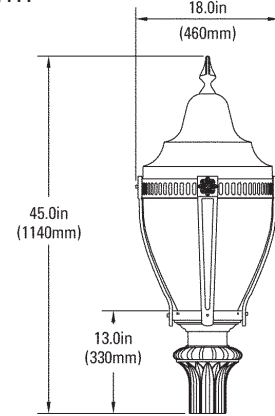
COLONY 1DA, 1MA
Asymmetrical and Symmetric Distribution available



ART DECO 1EB
Symmetric Distribution only



ART DECO WITH RIBS 1FB
Symmetric Distribution only



DATA

Approximate Weight	21-25 lbs	10-11 kgs
Suggested Mounting Height	10-16 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	0.15 sq M max

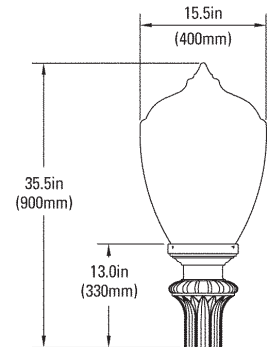
BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

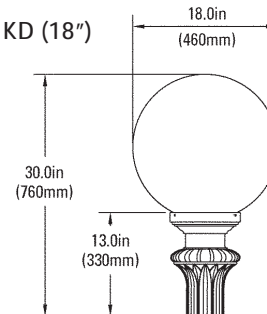
Wattage	Light Source	Ballast Type/Voltage			
		60Hz			
		120	347 120x347	Multivolt	480
50	HPS	H,N	H,N	H,N	N/A
70	HPS	A, H, N	H,N	H,N	H,N
100	HPS	A, H, N	H,N	H,N	H,N
150(55V)	HPS	A, H, N	H,N	H,N	H,N
70	MH	H,N	H,N	H,N	H,N
100	MH	H,N	H,N	N	H,N
175	MH	A	A	A	A

NOTE: N/A = Not Available

REVIVAL 1PB
Symmetric Distribution only



IMPRESSION 1KD (18")
Symmetric Distribution only



GE EDISON V AREA LIGHTING

A



GE CONSTITUTION™ LUMINAIRE

APPLICATIONS

- Residential roadways and walkways
- Shopping centers, malls, plazas and parks

SPECIFICATION FEATURES

Suitable For Wet Locations

- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle or button type PE available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Built to UL / UL standards
- Ornamental heavy gage cast aluminum base
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Removable aluminum ballast canister with key slots and electrical disconnect which provides easy access to the ballast, capacitor and plug-in ignitor
- Accepts 8" globes

ORDERING NUMBER LOGIC

CNSX	10	S	1	N	1	1CB	S	BLCK	OPTIONS
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE**	PE FUNCTION	GLOBE TYPE**	IES DISTRIBUTION TYPE**	COLOR	
XXXX	XX	X	X	X	X	XX	X	XXXX	XXX
CNSX= Constitution Luminaire	05 = 50 07 = 70	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast and Photometric Selection Tables**	1 = None 2 = PE Receptacle (twist lock)	1AC = Traditional Prismatic (Polycarbonate & Acrylic) 1BC = Colonial Prismatic (Polycarbonate & Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun aluminum top) 1EB = Art Deco (Polycarbonate) 1FB = Art Deco with Ribs (Polycarbonate) 1KD = 18" Impression (White polycarbonate) 1PB = Revival (Polycarbonate) 1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top)	See Ballast and Photometric Selection Tables** A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black BRWN = Brown CHGR = Charcoal Gray DKBZ = Dark Bronze FGRN = Forest Green GRAY = Gray WHTE = White	
CNSF = 8" Constitution Luminaire Finial Ready*	10 = 100 15 = 150 (55V) 17 = 175		1 = 120 5 = 480 D = 347 F = 120X347	A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	NOTE: Receptacle connected same voltage as unit. Order PE Control separately. 3 = Internal button PE				

**See Photometric Selection Tables starting on Page A-60.

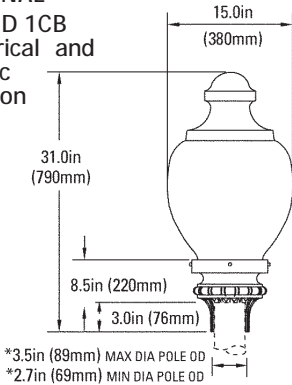
REFERENCES

- See Page A-54 for start of Accessories.
- See Page A-58 for Explanation of Options and Other Terms Used.
- See Page P-2 Pole and Bracket Section for pole selection.

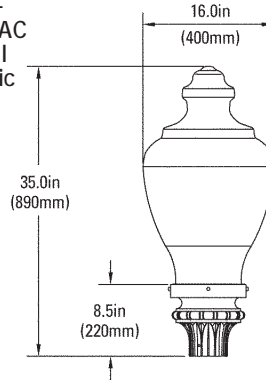
GE CONSTITUTION™ LUMINAIRE

FIXTURE DIMENSIONS

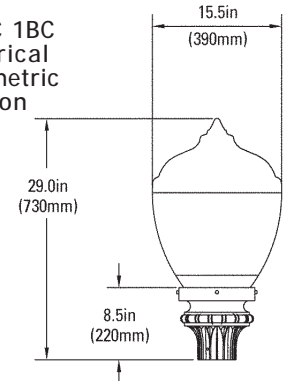
TRADITIONAL STANDARD 1CB
Asymmetrical and Symmetric Distribution available



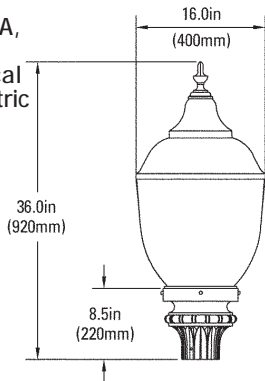
TRADITIONAL PRISMATIC 1AC
Asymmetrical and Symmetric Distribution available



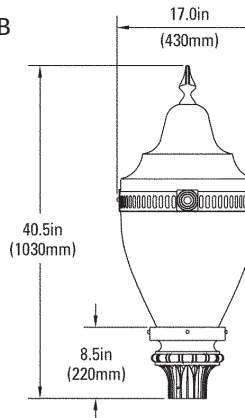
COLONIAL PRISMATIC 1BC
Asymmetrical and Symmetric Distribution available



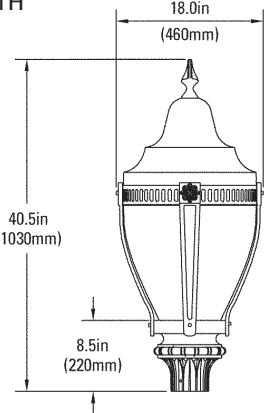
COLONY 1DA, 1MA
Asymmetrical and Symmetric Distribution available



ART DECO 1EB
Symmetric Distribution only



ART DECO WITH RIBS 1FB
Symmetric Distribution only



GE CONSTITUTION AREA LIGHTING

A

DATA

Approximate Weight	21-25 lbs	10-11 kgs
Suggested Mounting Height	10-16 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	0.15 sq M max

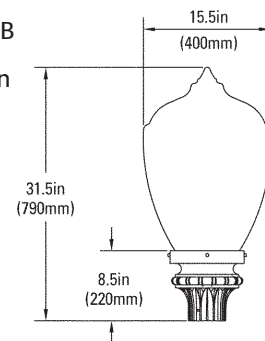
BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

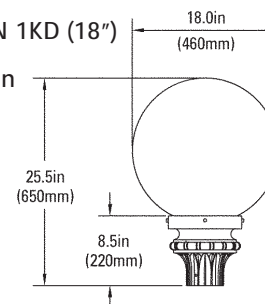
Wattage	Light Source	Ballast Type/Voltage			
		60Hz			
		120	347 120x347	Multivolt	480
50	HPS	H, N	H, N	H, N	N/A
70	HPS	A, H, N	H, N	H, N	H, N
100	HPS	A, H, N	H, N	H, N	H, N
150(55V)	HPS	A, H, N	H, N	H, N	H, N
70	MH	H, N	H, N	H, N	H, N
100	MH	H, N	H, N	N	H, N
175	MH	A	A	A	A

NOTE: N/A = Not Available

REVIVAL 1PB
Symmetric Distribution only



IMPRESSION 1KD (18")
Symmetric Distribution only





GE LEGACY™ LUMINAIRE

APPLICATIONS

- Residential roadways, walkways, shopping centers, malls and plazas
- Historic restorations and downtown business districts

SPECIFICATION FEATURES

Suitable For Wet Locations

- Low Profile unit to enhance aesthetics of decorative concrete poles
- Base designed to fit 7" tenon (typical offering with concrete poles)
- Button type photoelectric control available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Ornamental heavy gage cast aluminum base
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Removable aluminum ballast canister with key slots and electrical disconnect which provides easy access to the ballast, capacitor and plug-in ignitor
- Accepts 9" globes

ORDERING NUMBER LOGIC

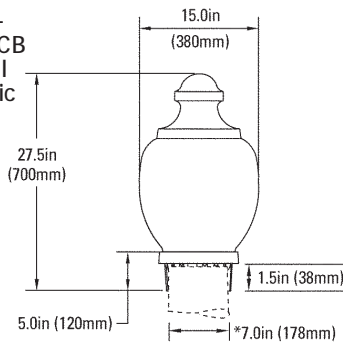
LGCX	10	S	1	N	1	1CB	S	BLCK	OPTIONS
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE**	PE FUNCTION	GLOBE TYPE**	IES DISTRIBUTION TYPE**	COLOR	
XXX	XX	X	X	X	X	XX	X	XXXX	XXX
LGCX= Legacy Luminaire	05 = 50 07 = 70	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt	See Ballast and Photometric Selection Tables** A = Autoreg	1 = None 3 = Internal PE Button	1AC = Traditional Prismatic (Polycarbonate/Acrylic) 1CB = Traditional Standard (Polycarbonate) 1DA = Colony (Acrylic with spun top aluminum) 1HA = Classic (Acrylic) 1LD = 22" Impression (White polycarbonate) 1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top)	See Ballast and Photometric Selection Tables** A = Asymmetric S = Symmetric	ALUM = Aluminum BLCK = Black BRWN = Brown CHGR = Charcoal Gray DKBZ = Dark Bronze FGRN = Forest Green GRAY = Gray WHTE = White	
LGCF = Legacy Luminaire Finial Ready*	10 = 100 15 = 150 (55V) 17 = 175		1 = 120 5 = 480 D = 347 F = 120X347	H = HPF Reactor or Lag N = NPF Reactor or Lag					

**See Photometric Selection Tables starting on Page A-60.

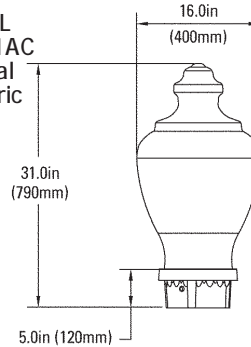
GE LEGACY™ LUMINAIRE

FIXTURE DIMENSIONS

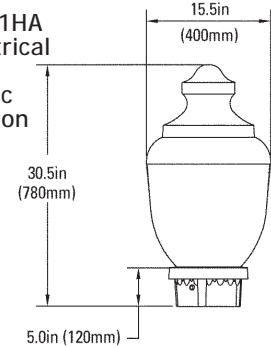
TRADITIONAL STANDARD 1CB
Asymmetrical and Symmetric
Distribution available



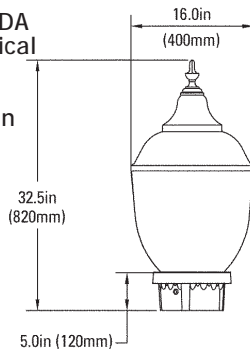
TRADITIONAL PRISMATIC 1AC
Asymmetrical and Symmetric
Distribution available



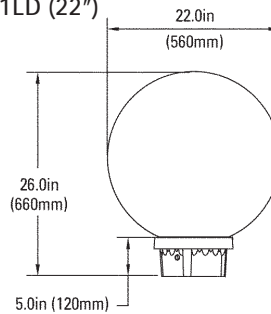
CLASSIC 1HA
Asymmetrical and
Symmetric
Distribution available



COLONY 1DA
Asymmetrical and
Symmetric
Distribution available



IMPRESSION 1LD (22")
Symmetric
Distribution
only



GE LEGACY AREA LIGHTING

A

DATA

Approximate Net Weight	21-25 lbs	10-11 kgs
Suggested Mounting Height	10-16 ft.	2-5 M
Effective Projected Area:	1.6 sq ft max	0.15 sq M max

BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage			
		60Hz			
		120	347 120x347	Multivolt	480
50	HPS	H, N	H, N	H, N	N/A
70	HPS	A, H, N	H, N	H, N	H, N
100	HPS	A, H, N	H, N	H, N	H, N
150(55V)	HPS	A, H, N	H, N	H, N	H, N
70	MH	H, N	H, N	H, N	H, N
100	MH	H, N	H, N	N	H, N
175	MH	A	A	A	A

NOTE: N/A = Not Available

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



POST MOUNT LUMINAIRE

APPLICATIONS

- Residential areas and walkways
- Shopping centers and malls

SPECIFICATION FEATURES

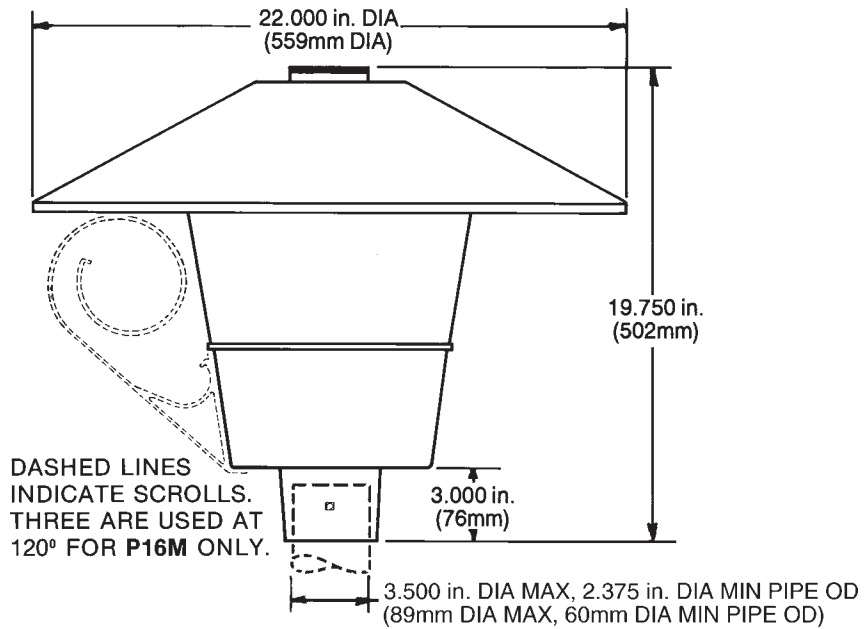
- 1598 Listed
- Suitable For Wet Locations
- cUL listed to Canadian National Standards and Codes when polycarbonate refractor is used and "U" option is chosen
- Die-cast aluminum ballast housing
- Stainless steel latch to secure hinged canopy
- Integral ballast
- No-tool access to relamp
- Terminal Board (standard)
- Mogul base socket – E39 standard
- Prismatic refractor
- Plug-in ignitor
- Decorative scrolls, black only (P16M only)

ORDERING NUMBER LOGIC

P17M	07	S	1	M	2	A	MN3	GR	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	REFRACTOR	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
P17M = Post Mount Luminaire	07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH C = Merc Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 HPS 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 D = 347 F = 120X347 T = 220 50Hz Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast and Photometric Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg P = CWI with Grounded Socket Shell N = NPF Reactor or Lag	1 = None 2 = PE Receptacle NOTE: Receptacles connected same voltage as unit except as noted. Order PE Control separately.	A = Acrylic L = LEXAN® Polycarbonate	See Ballast and Photometric Selection Table SN5 = Short Non-cutoff Type V MN2 = Medium Non-cutoff Type II MN3 = Medium Non-cutoff Type III MN5 = Medium Non-cutoff Type V MS5 = Medium Semi-cutoff Type V	BL = Black (Standard for P16M) DB = Dark Bronze GR = Gray (Standard for P17M)	F = Fusing (Not available with multivolt) J = Line Surge Protector, Expulsion Type U = (Available with polycarbonate only)

POST MOUNT LUMINAIRE

FIXTURE DIMENSIONS



POST MOUNT AREA LIGHTING

A

DATA

Approximate Net Weight	17-21 lbs	7-9 kgs
Suggested Mounting Height	10-18 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	0.15 sq M max

BALLAST AND PHOTOMETRIC SELECTION TABLE*

All light sources are clear unless otherwise indicated.
Data applies to either acrylic or polycarbonate refractors.

Wattage	Light Source	Ballast Type/Voltage									IES Distribution Type	Photometric Curve Number 35-17 ----
		60Hz								50Hz		
		120,208 240,277	120	208	240	277, 480	120X240	347, 120X347	220	240		
70, 100, 150 (55V)	HPS	A	G,H,M,N	G,M	G,H,M,N	G,M	N/A	H	N/A	N/A	MN2	7688
70, 100, 150 (55V)	HPS	A	G,H,M,N	G,M	G,H,M,N	G,M	N/A	H	N/A	N/A	MN3	5719
70, 100, 150 (55V)	HPS	A	G,H,M,N	G,M	G,H,M,N	G,M	N/A	H	N/A	N/A	MS5	6928
175	MH (Coated)	A	A	A	A	A	N/A	A	A	A	MN3	7509
175	MH (Coated)	A	A	A	A	A	N/A	A	A	A	SN5	7508
175	Merc (Coated)	N	N	C	H,N	C	C	N/A	N/A	N/A	MN3	7509
175	Merc (Coated)	N	N	C	H,N	C	C	N/A	N/A	N/A	SN5	7508

NOTE: N/A = Not Available.
*Also see Photometric Table on Page A-65.

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



SALEM™ LOWER LAMP MOUNTING

APPLICATIONS

- Residential areas and walkways
- Shopping centers and malls

SPECIFICATION FEATURES

- / 1598 Listed when Polycarbonate refractor (TL) is used and "U" option is chosen
- Die Cast aluminum housing
- Acrylic & Polycarbonate textured refractors
- Integral ballast in bottom of luminaire
- Mogul base vertical socket
- Stainless steel latch to secure canopy
- Terminal board standard
- Plug-in ignitor

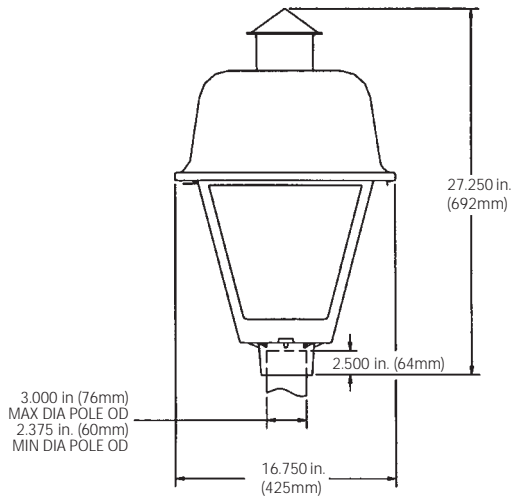
ORDERING NUMBER LOGIC

SEML	10	S	1	N	1	TA	MS5	BL	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	REFRACTOR	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XX	XXX	XX	XXX
SEML = Salem Luminaire	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175	S = HPS M = MH	60Hz 0 = Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	1 = None 2 = PE Receptacle 4 = Shorting Cap 5 = PE in box	TA = Textured Acrylic Refractor TL = Textured Lexan Refractor	S = Short M = Medium S = Semi-cutoff 5 = Type 5	WH=White BL=Black DB=Dark Bronze GR=Gray (ecoat only) AL=Aluminum GN=Forest Green CG=Charcoal Gray	F = Fused U = / Listed P = Prewire with 6' of 14/3 cable

SALEM™ LOWER LAMP MOUNTING

FIXTURE DIMENSIONS

SEML



DATA

SEML

Approximate Net Weight	12-18 lbs	5-8 kgs
Suggested Mounting Height	10-18 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	1.8 sq ft max

BALLAST AND PHOTOMETRIC SELECTION TABLE *

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage									
		Multi-volt	60Hz								
			120	208	240	277	480	120X 240	347, 120X347	240/120 PER	
50	HPS	N/A	H, N	N/A	N/A	N/A	N/A	N/A	H	N/A	
70, 100, 150 (55V)	HPS	AH	AGHMN	AGHMN	AGHMN	AGHMN	AGM	N/A	H	N/A	
175	MH	A	A	A	A	A	A	A	A	A	
100	Merc	C	C, N	C	C, H, N	C	C	C	N/A	C	
175	Merc	C	C, N	C	C, H, N	C	C	C	N/A	C	

NOTE: N/A = Not available.

*Also see Photometric Table on Page A-65.

REFERENCES



- See Page A-54 for start of Accessories.
- See Page A-58 for Explanation of Options and Other Terms Used.
- See Page A-60 for Photometry
- See Pole and Bracket Section Page P-2 for pole selection.

SALEM™ TOP MOUNTED LAMP

APPLICATIONS

- Residential areas and walkways
- Shopping centers and malls

SPECIFICATION FEATURES



-  /  1598 listed when Polycarbonate refractor (TL) is used and "U" option is chosen
- Die Cast aluminum housing
- Cutoff optics available
- Stainless steel catch to avoid hinge breakage
- Acrylic or Polycarbonate textured refractors, clear glass panels, or flat glass for cutoff distributions
- Integral ballast in top of luminaire
- Top socket
- Stainless steel latch to secure canopy
- Terminal board standard
- Plug-in ignitor
- No-tool PE receptacle

SALEM AREA LIGHTING

A

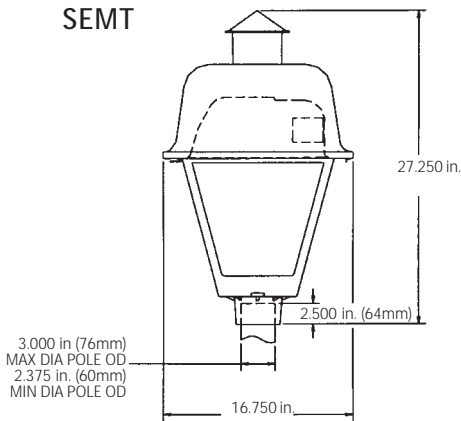


ORDERING NUMBER LOGIC

SEMT	10	S	1	N	1	TA	MS3	BL	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	REFRACTOR	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XX	XXX	XX	XXX
SEMT = Salem Luminaire	05 = 50 07 = 70 10 = 100 15 = 150 17 = 175	S = HPS M = MH T = INDUCTION	0 = Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 Multivolt Factory Conn 277V	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag T = Induction Ballast	1 = None 2 = PE Receptacle 4 = Shorting Cap 5 = PE in box	TA = Textured Acrylic Refractor TL = Textured Lexan Refractor CA = Clear Acrylic Side Panels QL = Clear Lexan Side Panels FG = Flat Glass Upper Lens CG = Clear Glass Side Panels	S = Short M = Medium C = Cutoff S = Semi-cutoff 2 = Type 2 3 = Type 3	WH=White BL=Black DB=Dark Bronze GR=Gray (ecoat only) AL=Aluminum GN=Forest Green CG=Charcoal Gray	F = Fused U =  /  available only with TL refractor (ballast in bottom) P = Prewire with 6' of 14/3 cable 002 = Pendant mount 1-1/4 NPSL

SALEM™ TOP MOUNTED LAMP

FIXTURE DIMENSIONS



DATA

SEMT

Approximate Net Weight	12-18 lbs	5-8 kgs
Suggested Mounting Height	10-18 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	1.0 sq ft max

BALLAST AND PHOTOMETRIC SELECTION TABLE*

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage								
		60Hz								
		Multi-volt	120	208	240	277	480	120X 240	347, 120X347	240/120 PER
50	HPS	N/A	H, N	N/A	N/A	N/A	N/A	N/A	H	N/A
70, 100, 150 (55V)	HPS	A, H	A, H, N	A, H, N	A, H, N	A, H, N	A	N/A	H	N/A
175	MH	A	A	A	A	A	A	A	A	A
100	Merc	C	C, N	C	C, H, N	C	C	C	N/A	C
175	Merc	C	C, N	C	C, H, N	C	C	C	N/A	C

NOTE: N/A = Not available.
 *Also see Photometric Table on Page A-65.
 **Medium Base Lamp

GLOBE ACCESSORY

Globe-C FOR USE WITH SEMT WITH CLEAR SIDE PANELS
 Globe-F FOR USE WITH SEMT WITH CLEAR FLAT GLASS UPPER LENS



GLOBE
 (For use with Cutoff Only)

REFERENCES

See Page A-54 for start of Accessories.
 See Page A-58 for Explanation of Options and Other Terms Used.
 See Page A-60 for Photometry
 See Pole and Bracket Section Page P-2 for pole selection.



TOWN AND COUNTRY™ LUMINAIRE

APPLICATIONS

- Residential areas and walkways
- Shopping centers and malls

SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- UL listed to Canadian National Standards and Codes when polycarbonate refractor is used and "U" option is chosen
- Die-cast aluminum housing
- Hinged canopy
- Stainless steel catch to avoid hinge breakage
- Acrylic or polycarbonate refractors
- Integral ballast
- Mogul base socket – E39 standard (T10C vertical; T10R horizontal – 15°)
- Plug-in ignitor
- No-tool PE receptacle
- Optional pendant mount (Contact factory)

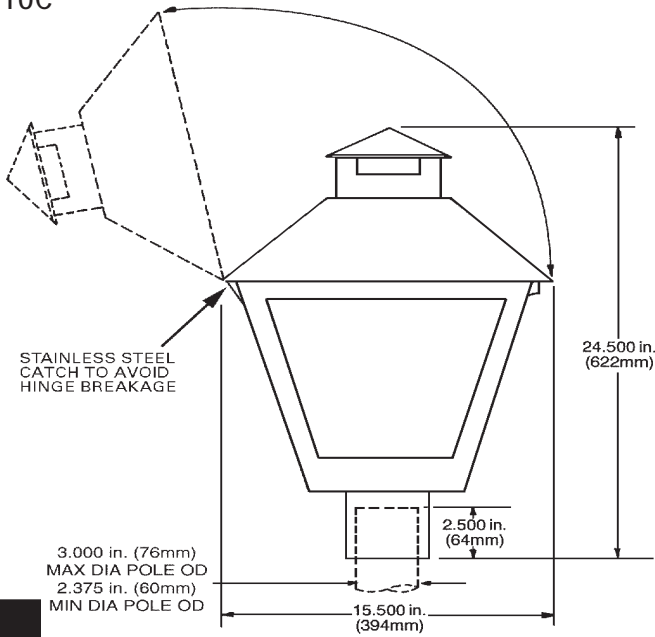
ORDERING NUMBER LOGIC

T10C	10	S	1	N	1	A	MS5	BL	T
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	REFRACTOR	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
T10C = Town and Country Luminaire with vertical socket T10R = Town and Country Luminaire with horizontal - 15° socket NOTE: UL Listed and CSA certified when Polycarbonate refractor is used. See "U" option.	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = Multivolt HPS Auto-Reg 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle. Not reconnectable D = 347 F = 120X347 NOTE: Dual voltage connected for lower voltage	See Ballast and Photometric Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag	1 = None 2 = PE Receptacle NOTE: Receptacles connected same voltage as unit except as noted. Order PE Control separately.	A = Acrylic L = Polycarbonate	See Ballast and Photometric Selection Table SS4 = Short Semi-cutoff Type IV SS5 = Short Semi-cutoff Type V MS2 = Medium Semi-cutoff Type II MS3 = Medium Semi-cutoff Type III MS5 = Medium Semi-cutoff Type V	BL = Black (Standard) DB = Dark Bronze GR = Gray	F = Fusing (Not available with dual voltage) J = Line Surge Protector, Expulsion Type (Not available for UL Listed units) L = Latch Canopy T = Terminal Board U = / Listed and CSA Certified (Available with polycarbonate refractor only) NOTE: Terminal Board (T option) Required for UL Listing

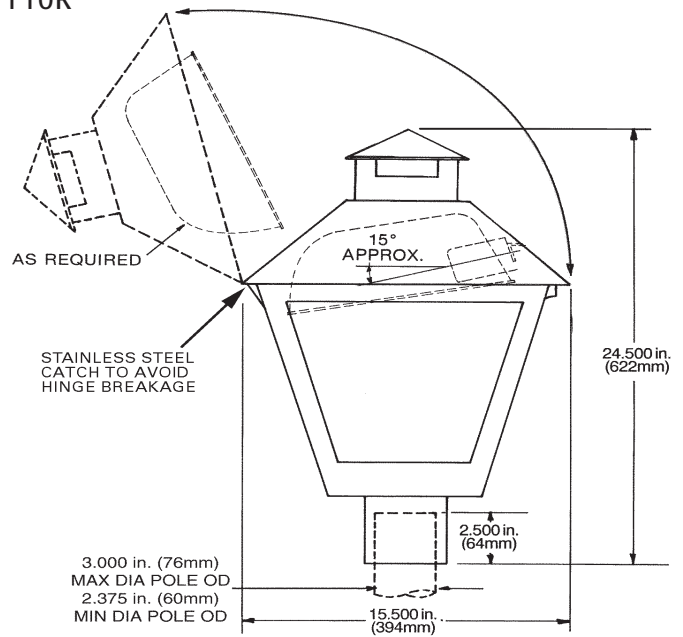
TOWN AND COUNTRY™ LUMINAIRE

FIXTURE DIMENSIONS

T10C



T10R



TOWN AND COUNTRY AREA LIGHTING

A

DATA

Approximate Net Weight	10-16 lbs	5-7 kgs
Suggested Mounting Height	10-18 ft.	3-5 M
Effective Projected Area	1.6 sq ft max	0.15 sq M max

BALLAST AND PHOTOMETRIC SELECTION TABLE*

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage										Photometric Curve Number 35-17 - - - -					
		60Hz										T10C			T10R		
		Multi-volt	120	208	240	277	480	347, 120X240	PER 120X347	240/120	IES Distribution Type						
										MS5	SS4	SS5	MS2	MS3	SS4		
50 70, 100, 150 (55V)	HPS	N/A	H, N	N/A	N/A	N/A	N/A	N/A	H	N/A	7505	N/A	N/A	7502	7503	N/A	
	HPS	A,H	A,G,H,M,N	A,G,H,M,N	A,G,H,M,N	A,G,H,M,N	A,G,M	N/A	H	N/A	7505	N/A	N/A	7502	7503	N/A	
175	MH (Coated)	A	A	A	A	A	A	A	A	A	N/A	7507	7506	N/A	451461	7504	
100	Merc (Coated)	C	C, N	C	C, H, N	C	C	C	N/A	C	N/A	7507	7506	N/A	N/A	7504	
175	Merc (Coated)	C	C, N	C	C, H, N	C	C	C	N/A	C	N/A	7507	7506	N/A	N/A	7504	

NOTE: N/A = Not available.
*Also see Photometric Table on Page A-65.

REFERENCES

See Page A-54 for start of Accessories.
See Page A-58 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

DECORATIVE POST TOP ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

AREA LIGHTING DECORATIVE POST TOP ACCESSORIES

A

LEGEND: ////////////// = Accessory can be used.

INDEX	PRODUCT																					
	STREETDREAMS					DECORATIVE OPTICALS														Post Mount	Salem & Salem Cut-off	Town & Country
	Traditional	Prismatic	Avery	Lantern	Vandermore	GE Torch II	Edison V	Americana & Impression	Traditional Prismatic (1A)	Colonial Prismatic (1B)	Traditional Standard (1C)	Colony (1D)	Art Deco (1E)	Art Deco with Ribs (1F)	Classic (1H)	18" Impression (1K)	22" Impression (1L)	Colony with Crown & Ribs (1M)	Revival (1P)			
FINIAL																						
FNLBL-ACN	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-BLS	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-FDL	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-FIL	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-SIL	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-SPK	////	////	////				See Opt	See Opt	////		////	////	////	////	////			////				
FNLBL-OAK			////																			
FNLBL-STP				////																		
FNLBL-GTH	////	////	////		////																	
CROWN ONLY																						
CRNABL-G																						
CRNABL-D									////	////		////										
SD-C-M	////	////	////																			
CROWN WITH RIBS																						
CRNBBL-A									////													
CRNBBL-B									////													
CRNBBL-C										////												
SD-CR-M	////	////	////																			
SD-CR-S	////	////	////																			
INTERNAL LIGHT SHIELD-HOUSE SIDE																						
ILSHS-PT1MOG							////	////	////	////	////	////	////	////	////	////	////	////	////			
ILSHS-PT1MED							////	////	////	////	////	////	////	////	////	////	////	////	////			
ILSH-PM																		////	////			
ILSH-TC																			3			
ILS-SDHTSMOG	////	////	////	////	////																	
ILS-SDHTSMED	////	////	////	////	////																	
ILS-SDHSMOG	////	////	////	////	////																	
ILS-SDHSDED	////	////	////	////	////																	
INTERNAL LIGHT SHIELD-STREET SIDE																						
ILSS-TC																			3			
LADDER REST																						
LR-TC							////	////	////									////	////			
LINE SURGE PROTECTOR, EXPULSION TYPE																						
35-411749R01							////	////	////										6			
LOUVER SYSTEM																						
SD-LOUVER	////	////	////	////	////																	
MOUNTING BRACKET (For PE)																						
MB-PECTL							////	////	////									////	////			
PHOTOELECTRIC CONTROL																						
PECOTL							////	////	////									////	////			
PECTTL							////	////	////									////	////			
PEC5TL							////	////	////									////	////			
POLE TOP ADAPTER (For PE Receptacle)																						
PTA-PECTL							////	////	////									////	////			
SHORTING CAP																						
SCCL-PECTL							////	////	////									////	////			
UPLIGHT SHIELD																						
ULS-L3ED							See Opt	See Opt	C/F	C/F	////				////			////				
ILS-SD-TSMOG	////	////	////	////	////																	
ILS-SD-TSMED	////	////	////	////	////																	

NOTE: C/F = Contact Factory; 3 = Not SEMT w/"FG"; 6 = Not UL Listed units

STREETDREAMS™ AND DECORATIVE POST TOP ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

CROWN AND RIB

- SD-CR-M
Medallion
- SD-CR-S
Scroll
- SD-C-M
Crown only
Medallion



SD-C-M



SD-CR-M



SD-CR-S

FINIAL

- FNLBL-ACN
- FNLBL-BLS
- FNLBL-FDL
- FNLBL-FIL
- FNLBL-SIL
- FNLBL-SPK
- FNLBL-OAK
- FNLBL-STP
- FNLBL-GTH



FNLBL-ACN
ACORN



FNLBL-BLS
BLOSSOM



FNLBL-FDL
FLEUR-DE-LIS



FNLBL-FIL
FILAGREE



FNLBL-SIL
SILHOUETTE



FNLBL-SPK
SPIKE



FNLBL-OAK
OAK



FNLBL-STP
STEEPLE



FNLBL-GTH
GOTHIC

HOUSE & TOP SIDE SHIELD

- ILS-SD-HTS MOG
- ILS-SD-HTS MED



ILS-SD-HTS



ILS-SD-HS



ILS-SD-TS

HOUSE SIDE

- ILS-SD-HS MOG
- ILS-SD-HS MED

TOP SIDE

- ILS-SD-TS MOG
- ILS-SD-TS MED

LOUVER SYSTEM

- SD-Louver



SD-Louver

DECORATIVE POST TOP ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

AREA LIGHTING DECORATIVE POST TOP ACCESSORIES

A

CROWN ONLY

- **CRNABL-G**
Fits GE Torch
- **CRNABL-D**
Traditional Prismatic and Colonial Prismatic

CROWN WITH RIBS

- **CRNBBL-A**
Traditional Prismatic
- **CRNBBL-B**
Colonial Prismatic
- **CRNBBL-C**
Traditional Standard
- **CRNBBL-2G**
Torch II (Die Cast Crown, Sheet Metal Ribs) not shown
- **CRNBBL-T2H**
Torch II (Die Cast Aluminum)



CRNBBL-T2H
CROWN AND RIB



CROWN



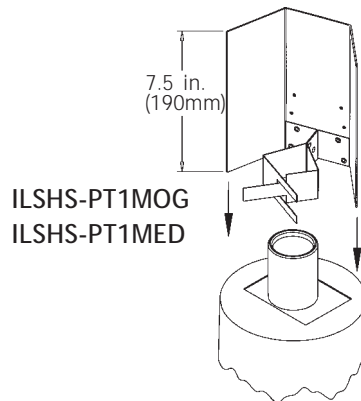
CROWN AND RIB



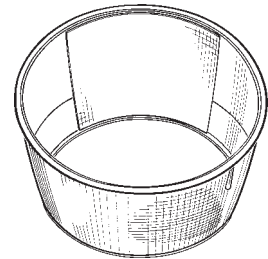
CROWN AND RIB

INTERNAL LIGHT SHIELD

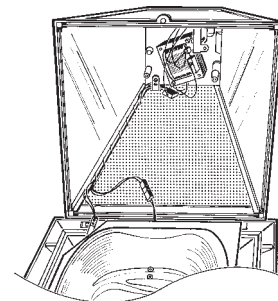
- **ILSHS-PT1MOG** – Mogul Base Socket
House Side
Fits AM8, AM9, EDV
- **ILSHS-PT1MED** – Medium Base Socket
House Side
- **ILSH-PM**
House Side
- **ILSS-TC**
Street Side-Perforated aluminum
(This shield is similar in appearance, but not in size, to house side shield. They are not interchangeable.)



ILSHS-PT1MOG
ILSHS-PT1MED



ILSH-PM
FOR PM17



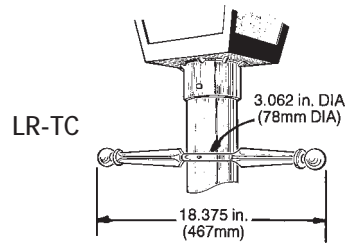
ILSH-TC

DECORATIVE POST TOP ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LADDER REST

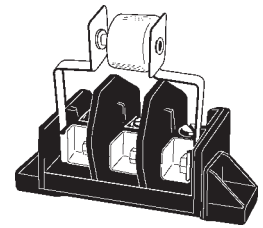
- LR-TC
Heavy cast aluminum for 3-inch (76mm) OD pole
For decorative use only



LINE SURGE PROTECTOR, EXPULSION TYPE

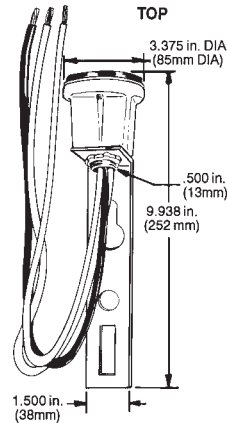
- 35-411749R01
Can be added to many fixture terminal boards.
(Terminal Board not included.)

35-411749R01

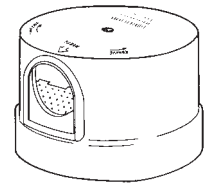


MOUNTING BRACKET (For PE)

- MB-PECTL
With locking-type receptacle for use with photoelectric control
(Remove bracket to use with conduit.)



MB-PECTL



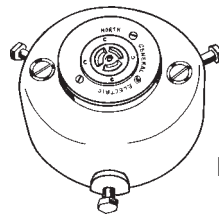
PEC

PHOTOELECTRIC CONTROL

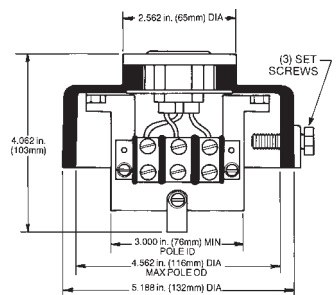
- PEC0TL
120, 208, 240, 277, Multivolt—Turn and Lock
- PEC1TL
120 volt—Turn and Lock
- PEC5TL
480 volt—Turn and Lock

POLE TOP ADAPTER (For PE Receptacle)

- PTA-PECTL

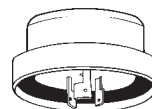


PTA-PECTL

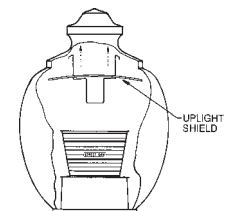


SHORTING CAP (With standard three-prong plug)

- SCCL-PECTL



SCCL-PECTL



ULS-L3ED

UPLIGHT SHIELD

- ULS-L3ED

DECORATIVE POST TOP DATA

EXPLANATION OF OPTIONS

F = FUSING (not available with multivolt or dual voltage)

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V or two fuses for 208V, 240V, 480V.

J = LINE SURGE PROTECTOR, EXPULSION TYPE

An expulsion device protects against transient surges caused by lightning or distribution system switching.

L = LATCH ON DOOR OR LATCH ON CANOPY (when latch is not standard)

On luminaires where this is an option, standard doors or canopies are fastened with screws. With this option, latches are used instead, allowing no-tool access.

R = OPTIONAL OUTLET BOX

Simplex receptacle is available on certain post top models.

T = TERMINAL BOARD (when terminal board is not standard)

All internal wiring in the luminaire is completed. Internal and external electrical connectors are made on a screw terminal board.

U = UL LISTED and UL LISTED TO CANADIAN STANDARDS AND CODES

Equipment has passed tests by Underwriters' Laboratories and is UL 1598 Listed Suitable for Wet Locations. It is also CSA Certified. This option applies only to luminaires with polycarbonate refractors.

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages - 120, 208, 240 or 277.

PECONTROL

A photoelectric (PE) control allows automatic dusk-to-dawn operation of luminaires. With most luminaires, the "PE" choice includes a receptacle only; the PE itself must be ordered separately. See product and accessory pages.

ROADWAY LIGHT DISTRIBUTION PATTERNS




































There are three IES (Illuminating Engineering Society) classifications used to describe the light distribution or beam pattern of a roadway luminaire or one with roadway optics.

1. **S** (Short), **M** (Medium), or **L** (Long) indicates how far up and down a street a luminaire directs light.
2. **C** (Cutoff), **S** (Semi-cutoff), or **N** (Non-cutoff) tells how much light a luminaire directs above 80° and 90° vertical. A cutoff luminaire directs almost no light above 90°; a semi-cutoff, some light; and a non-cutoff has no restrictions on how much light might be emitted in any direction.
3. Type designations **I**, **II**, **III**, **IV** are for asymmetrical (non-circular) light distribution patterns and indicate how far a luminaire directs light across the width of the street; the higher the number, the further light is directed across the street. An IES Type **V** designation signifies that light is emitted in a circular (symmetrical) pattern.

MOUNTING HEIGHT

Mounting height is generally the distance from the luminaire to the ground. For pole mounted luminaires, this may not correspond to pole height, depending on whether the luminaire is mounted directly on top of the pole, or on a yoke.

GLOBE AVAILABILITY KEY

	Art Deco	A/D w/Ribs	Revival	18" Globe (8")	22" Globe (9")	Colony	Traditional	Classic	Trad. Prism.	Colonial Prism.	Torch Globe
Americana 8" & 9"											
Edison V 8"											
Constitution 8"											
Legacy 9"											
Torch 8"											
Patriarch 9"											

AREA LIGHTING DECORATIVE POST TOP DATA

A

PHOTOMETRIC TABLES

THESE PHOTOMETRIC TABLES PROVIDE IES DISTRIBUTION TYPES AVAILABLE FOR A PARTICULAR OPTICAL, FIXTURE AND LAMP SOURCE. FOR PHOTOMETRIC IES FILES PLEASE REFERENCE THE CORRESPONDING CURVE NUMBER AND CONTACT THE FACTORY.

AREA LIGHTING DECORATIVE POST TOP PHOTOMETRIC

A



COLONY – SYMMETRIC

(with or without ribs)
OPT-1DXXAS (A) Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452166
70 W MH	TYPE V	452108
100 W MH	TYPE V	452085
175 W MH	TYPE V	452086
50 W HPS	TYPE V	452167
70 W HPS	TYPE V	452107
100 W HPS	TYPE V	452000
150 W HPS	TYPE V	452087
175 W HG	TYPE V	452001

Constitution Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452142
70 W MH	TYPE V	452143
100 W MH	TYPE V	452144
175 W MH	TYPE V	452145
50 W HPS	TYPE V	452146
70 W HPS	TYPE V	452147
100 W HPS	TYPE V	452148
150 W HPS	TYPE V	452149

EDV Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452150
70 W MH	TYPE V	452151
100 W MH	TYPE V	452152
175 W MH	TYPE V	452153
50 W HPS	TYPE V	452154
70 W HPS	TYPE V	452155
100 W HPS	TYPE V	452156
150 W HPS	TYPE V	452157

Legacy Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452158
70 W MH	TYPE V	452159
100 W MH	TYPE V	452160
175 W MH	TYPE V	452161
50 W HPS	TYPE V	452162
70 W HPS	TYPE V	452163
100 W HPS	TYPE V	452164
150 W HPS	TYPE V	452165

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452391
70 W MH	TYPE V	452130
100 W MH	TYPE V	452125
175 W MH	TYPE V	452126
50 W HPS	TYPE V	452392
70 W HPS	TYPE V	452129
100 W HPS	TYPE V	452127
150 W HPS	TYPE V	452128



COLONY – ASYMMETRIC

(with or without ribs)
OPT-1DXXAA (A) Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE IV	452168
70 W MH	TYPE IV	452109
100 W MH	TYPE IV	452088
175 W MH	TYPE IV	452089
50 W HPS	TYPE IV	452169
70 W HPS	TYPE IV	452110
100 W HPS	TYPE IV	452090
150 W HPS	TYPE IV	452091

Constitution Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE IV	452170
70 W MH	TYPE IV	452171
100 W MH	TYPE IV	452172
175 W MH	TYPE IV	452173
50 W HPS	TYPE IV	452174
70 W HPS	TYPE IV	452175
100 W HPS	TYPE IV	452176
150 W HPS	TYPE IV	452177

EDV Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE IV	452178
70 W MH	TYPE IV	452179
100 W MH	TYPE IV	452180
175 W MH	TYPE IV	452181
50 W HPS	TYPE IV	452182
70 W HPS	TYPE IV	452183
100 W HPS	TYPE IV	452184
150 W HPS	TYPE IV	452185

Legacy Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE IV	452186
70 W MH	TYPE IV	452187
100 W MH	TYPE IV	452188
175 W MH	TYPE IV	452189
50 W HPS	TYPE IV	452190
70 W HPS	TYPE IV	452191
100 W HPS	TYPE IV	452192
150 W HPS	TYPE IV	452193

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE II	452393
70 W MH	TYPE II	452124
100 W MH	TYPE II	452119
175 W MH	TYPE III	452120
50 W HPS	TYPE III	452394
70 W HPS	TYPE III	452123
100 W HPS	TYPE III	452121
150 W HPS	TYPE III	452122



ART DECO – SYMMETRIC

(with or without ribs)
OPT-1E8XBS, OPT-1F8XBS (B) Polycarbonate

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452198
70 W MH	TYPE V	452199
100 W MH	TYPE V	452200
175 W MH	TYPE V	452201
50 W HPS	TYPE V	452202
70 W HPS	TYPE V	452203
100 W HPS	TYPE V	452204
150 W HPS	TYPE V	452205

Constitution Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452194
70 W MH	TYPE V	452116
100 W MH	TYPE V	451938
175 W MH	TYPE V	451939
50 W HPS	TYPE V	452195
70 W HPS	TYPE V	452115
100 W HPS	TYPE V	451940
150 W HPS	TYPE V	451941

EDV Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452206
70 W MH	TYPE V	452207
100 W MH	TYPE V	452208
175 W MH	TYPE V	452209
50 W HPS	TYPE V	452210
70 W HPS	TYPE V	452211
100 W HPS	TYPE V	452212
150 W HPS	TYPE V	452213

PHOTOMETRIC TABLES

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REVIVAL – SYMMETRIC

OPT-1P8XBS (B) Polycarbonate

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452214
70 W MH	TYPE V	452215
100 W MH	TYPE V	452216
175 W MH	TYPE V	452217
50 W HPS	TYPE V	452218
70 W HPS	TYPE V	452219
100 W HPS	TYPE V	452220
150 W HPS	TYPE V	452221

Constitution Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452196
70 W MH	TYPE V	452118
100 W MH	TYPE V	452103
175 W MH	TYPE V	452104
50 W HPS	TYPE V	452197
70 W HPS	TYPE V	452117
100 W HPS	TYPE V	452105
150 W HPS	TYPE V	452106

EDV Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452222
70 W MH	TYPE V	452223
100 W MH	TYPE V	452224
175 W MH	TYPE V	452225
50 W HPS	TYPE V	452226
70 W HPS	TYPE V	452227
100 W HPS	TYPE V	452228
150 W HPS	TYPE V	452229

TRADITIONAL PRISMATIC – SYMMETRIC

OPT-1AXXCS (C) Polycarbonate/Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	451499
100 W MH	TYPE V	451500
175 W MH	TYPE V	451501
175 W MH (ctd)	TYPE V	451502
50 W HPS	TYPE V	451495
70 W HPS	TYPE V	451496
100 W HPS	TYPE V	451497
150 W HPS	TYPE V	451498

Constitution Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	452276
100 W MH	TYPE V	452277
175 W MH	TYPE V	452278
175 W MH (ctd)	TYPE V	452279
50 W HPS	TYPE V	452280
70 W HPS	TYPE V	452281
100 W HPS	TYPE V	452282
150 W HPS	TYPE V	452283

EDV Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	452284
100 W MH	TYPE V	452285
175 W MH	TYPE V	452286
175 W MH (ctd)	TYPE V	452287
50 W HPS	TYPE V	452288
70 W HPS	TYPE V	452289
100 W HPS	TYPE V	452290
150 W HPS	TYPE V	452291

Legacy Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	452292
100 W MH	TYPE V	452293
175 W MH	TYPE V	452294
175 W MH (ctd)	TYPE V	452295
50 W HPS	TYPE V	452296
70 W HPS	TYPE V	452297
100 W HPS	TYPE V	452298
150 W HPS	TYPE V	452299

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452399
70 W MH	TYPE V	452400
100 W MH	TYPE V	452401
175 W MH	TYPE V	452402
50 W HPS	TYPE V	452403
70 W HPS	TYPE V	452404
100 W HPS	TYPE V	452405
150 W HPS	TYPE V	452406

TRADITIONAL PRISMATIC – ASYMMETRIC

OPT-1AXXCA (C) Polycarbonate/Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE II	451285
100 W MH	TYPE II	451476
175 W MH	TYPE II	451375
175 W MH (ctd)	TYPE II	451376
50 W HPS	TYPE II	451371
70 W HPS	TYPE II	451372
100 W HPS	TYPE II	451373
150 W HPS	TYPE II	451374

Constitution Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE II	452300
100 W MH	TYPE II	452301
175 W MH	TYPE II	452302
175 W MH (ctd)	TYPE II	452303
50 W HPS	TYPE II	452304
70 W HPS	TYPE II	452305
100 W HPS	TYPE II	452306
150 W HPS	TYPE II	452307

EDV Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE II	451257
100 W MH	TYPE II	451440
175 W MH	TYPE II	451367
175 W MH (ctd)	TYPE II	451368
50 W HPS	TYPE II	451369
70 W HPS	TYPE II	451370
100 W HPS	TYPE II	451365
150 W HPS	TYPE II	451366

Legacy Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE II	452308
100 W MH	TYPE II	452309
175 W MH	TYPE II	452310
175 W MH (ctd)	TYPE II	452311
50 W HPS	TYPE II	452312
70 W HPS	TYPE II	452313
100 W HPS	TYPE II	452314
150 W HPS	TYPE II	452315

Patriarch Fixture

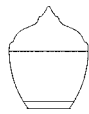
Lamp info	Distribution	Curve#
50 W MH	Contact Factory	452407
70 W MH	Contact Factory	452408
100 W MH	Contact Factory	452409
175 W MH	Contact Factory	452410
50 W HPS	Contact Factory	452411
70 W HPS	Contact Factory	452412
100 W HPS	Contact Factory	452413
150 W HPS	Contact Factory	452414

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AREA LIGHTING DECORATIVE POST TOP PHOTOMETRIC

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COLONIAL PRISMATIC – SYMMETRIC

OPT-1B8XCS (C) Polycarbonate/Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	451287
175 W MH	TYPE V	451289
175 W MH (ctd)	TYPE V	451291
50 W HPS	TYPE V	451274
70 W HPS	TYPE V	451276
100 W HPS	TYPE V	451278
150 W HPS	TYPE V	451280

Constitution Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	452316
175 W MH	TYPE V	452317
175 W MH (ctd)	TYPE V	452318
50 W HPS	TYPE V	452319
70 W HPS	TYPE V	452320
100 W HPS	TYPE V	452321
150 W HPS	TYPE V	452322

EDV Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	451259
175 W MH	TYPE V	452323
175 W MH (ctd)	TYPE V	452324
50 W HPS	TYPE V	452325
70 W HPS	TYPE V	452326
100 W HPS	TYPE V	452327
150 W HPS	TYPE V	452328



COLONIAL PRISMATIC – ASYMMETRIC

OPT-1B8XCA (C) Polycarbonate/Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
175 W MH	TYPE II	451288
175 W MH (ctd)	TYPE III	451290
50 W HPS	TYPE II	451273
70 W HPS	TYPE II	451275
100 W HPS	TYPE II	451277
150 W HPS	TYPE II	451279

Constitution Fixture

Lamp info	Distribution	Curve#
175 W MH	TYPE II	452329
175 W MH (ctd)	TYPE III	452330
50 W HPS	TYPE II	452331
70 W HPS	TYPE II	452332
100 W HPS	TYPE II	452333
150 W HPS	TYPE II	452334

EDV Fixture

Lamp info	Distribution	Curve#
175 W MH	TYPE II	452335
175 W MH (ctd)	TYPE III	452336
50 W HPS	TYPE II	452337
70 W HPS	TYPE II	452338
100 W HPS	TYPE II	452339
150 W HPS	TYPE II	452340



TRADITIONAL STANDARD – SYMMETRIC

OPT-1CXXBS (B) Polycarbonate

Americana Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	451341
100 W MH	TYPE V	451424
175 W MH	TYPE V	451180
175 W MH (ctd)	TYPE V	451181
50 W HPS	TYPE V	451179
70 W HPS	TYPE V	451426
100 W HPS	TYPE V	451427
150 W HPS	TYPE V	451428

Constitution Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	452341
100 W MH	TYPE V	452342
175 W MH	TYPE V	452343
175 W MH (ctd)	TYPE V	452344
50 W HPS	TYPE V	452345
70 W HPS	TYPE V	452346
100 W HPS	TYPE V	452347
150 W HPS	TYPE V	452348

EDV Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE V	451261
100 W MH	TYPE V	452349
175 W MH	TYPE V	178240
175 W MH (ctd)	TYPE V	452350
50 W HPS	TYPE V	178232
70 W HPS	TYPE V	452351
100 W HPS	TYPE V	452352
150 W HPS	TYPE V	452353

Legacy Fixture

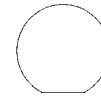
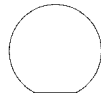
Lamp info	Distribution	Curve#
70 W MH	TYPE V	452354
100 W MH	TYPE V	452355
175 W MH	TYPE V	452356
175 W MH (ctd)	TYPE V	452357
50 W HPS	TYPE V	452358
70 W HPS	TYPE V	452359
100 W HPS	TYPE V	452360
150 W HPS	TYPE V	452361

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452415
70 W MH	TYPE V	452416
100 W MH	TYPE V	452417
175 W MH	TYPE V	452418
50 W HPS	TYPE V	452419
70 W HPS	TYPE V	452420
100 W HPS	TYPE V	452421
150 W HPS	TYPE V	452422

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TRADITIONAL STANDARD – ASYMMETRIC (with Internal Glass Refractor)

(with Internal Glass Refractor)
OPT-1CXXBS (B) Polycarbonate

Americana Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE IV	451570
100 W MH	TYPE IV	451571
175 W MH	TYPE IV	451572
175 W MH (ctd)	TYPE IV	451573
50 W HPS	TYPE IV	451566
70 W HPS	TYPE IV	451567
100 W HPS	TYPE IV	451568
150 W HPS	TYPE IV	451569

Constitution Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE IV	452362
100 W MH	TYPE IV	452363
175 W MH	TYPE IV	452364
175 W MH (ctd)	TYPE IV	452365
50 W HPS	TYPE IV	452366
70 W HPS	TYPE IV	452367
100 W HPS	TYPE IV	452368
150 W HPS	TYPE IV	452369

EDV Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE IV	452027
100 W MH	TYPE IV	452370
175 W MH	TYPE IV	452029
175 W MH (ctd)	TYPE IV	452030
50 W HPS	TYPE IV	452023
70 W HPS	TYPE IV	452024
100 W HPS	TYPE IV	452025
150 W HPS	TYPE IV	452026

Legacy Fixture

Lamp info	Distribution	Curve#
70 W MH	TYPE IV	452371
100 W MH	TYPE IV	452372
175 W MH	TYPE IV	452373
175 W MH (ctd)	TYPE IV	452374
50 W HPS	TYPE IV	452375
70 W HPS	TYPE IV	452376
100 W HPS	TYPE IV	452377
150 W HPS	TYPE IV	452378

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE IV	Contact Factory
70 W MH	TYPE IV	Contact Factory
100 W MH	TYPE IV	Contact Factory
175 W MH	TYPE IV	Contact Factory
50 W HPS	TYPE IV	Contact Factory
70 W HPS	TYPE IV	Contact Factory
100 W HP	TYPE IV	Contact Factory
150 W HP	TYPE IV	Contact Factory

22" IMPRESSION – SYMMETRIC

OPT-1L9XDS (D) White Polycarbonate

Americana Fixture

Lamp info	Distribution	Curve#
175 W MH	TYPE V	452379
175 W MH (ctd)	TYPE V	452380
50 W HPS	TYPE V	452381
70 W HPS	TYPE V	452382
100 W HPS	TYPE V	452383
150 W HPS	TYPE V	452384

Legacy Fixture

Lamp info	Distribution	Curve#
175 W MH	TYPE V	452385
175 W MH (ctd)	TYPE V	452386
50 W HPS	TYPE V	452387
70 W HPS	TYPE V	452388
100 W HPS	TYPE V	452389
150 W HPS	TYPE V	452390

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452423
70 W MH	TYPE V	452424
100 W MH	TYPE V	452425
175 W MH	TYPE V	452426
50 W HPS	TYPE V	452427
70 W HPS	TYPE V	452428
100 W HPS	TYPE V	452429
150 W HPS	TYPE V	452430

18" IMPRESSION – SYMMETRIC

OPT-1K8XDS (D) White Polycarbonate

Not Available with Americana

Constitution Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452234
70 W MH	TYPE V	452136
100 W MH	TYPE V	452131
175 W MH	TYPE V	452132
50 W HPS	TYPE V	452235
70 W HPS	TYPE V	452135
100 W HPS	TYPE V	452133
150 W HPS	TYPE V	452134

EDV Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452236
70 W MH	TYPE V	452237
100 W MH	TYPE V	452238
175 W MH	TYPE V	452239
50 W HPS	TYPE V	452240
70 W HPS	TYPE V	452241
100 W HPS	TYPE V	452242
150 W HPS	TYPE V	452243

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CLASSIC TYPE V – SYMMETRIC

OPT-1H9XAS (A) Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452244
70 W MH	TYPE V	452245
100 W MH	TYPE V	452246
175 W MH	TYPE V	452247
50 W HPS	TYPE V	452248
70 W HPS	TYPE V	452249
100 W HPS	TYPE V	452250
150 W HPS	TYPE V	452251

Legacy Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452252
70 W MH	TYPE V	452253
100 W MH	TYPE V	452254
175 W MH	TYPE V	452255
50 W HPS	TYPE V	452256
70 W HPS	TYPE V	452257
100 W HPS	TYPE V	452258
150 W HPS	TYPE V	452259

Patriarch Fixture

Lamp info	Distribution	Curve#
50 W MH	TYPE V	452395
70 W MH	TYPE V	452112
100 W MH	TYPE V	452092
175 W MH	TYPE V	452093
50 W HPS	TYPE V	452396
70 W HPS	TYPE V	452111
100 W HPS	TYPE V	452094
150 W HPS	TYPE V	452095

CLASSIC TYPE III – ASYMMETRIC

OPT-1H9XAA (A) Acrylic

Americana Fixture

Lamp info	Distribution	Curve#
50 W MH	LN IV	452260
70 W MH	LN IV	452261
100 W MH	MN IV	452262
175 W MH	MN IV	452263
50 W HPS	MN III	452264
70 W HPS	MN III	452265
100 W HPS	MN IV	452266
150 W HPS	MN IV	452267

Legacy Fixture

Lamp info	Distribution	Curve#
50 W MH	LN IV	452268
70 W MH	LN IV	452269
100 W MH	MN IV	452270
175 W MH	MN IV	452271
50 W HPS	MN III	452272
70 W HPS	MN III	452273
100 W HPS	MN IV	452274
150 W HPS	MN IV	452275

Patriarch Fixture

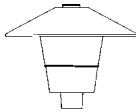
Lamp info	Distribution	Curve#
50 W MH	TYPE III	452397
70 W MH	TYPE III	452114
100 W MH	TYPE III	452099
175 W MH	TYPE III	452100
50 W HPS	TYPE III	452398
70 W HPS	TYPE III	452113
100 W HPS	TYPE III	452101
150 W HPS	TYPE III	452102

TORCH – ASYMMETRIC & SYMMETRIC

Lamp info	Distribution	Curve#
50 W HPS	LN-IV	450971
70 W HPS	MN-IV	450671
100 W HPS	MN-IV	450672
150 W (55V) HPS	MN-IV	450673
250 W HPS	SN-II	450680
50 W MH	MN-IV	450974
70 W MH	MN-IV	450972
100 W MH	MN-IV	450678
175 W MH	MN-III	450674
250 W MH	MN-III	450676
100 W MH (Coated)	MN-IV	450679
175 W MH (Coated)	SN-III	450675
250 W MH (Coated)	SN-III	450677
400 W MH ED28	MN-III	451482
400 W MH ED28	TYPE-V	452483
50 W HPS (Clear)	TYPE-V	452499
70 W HPS (Clear)	TYPE-V	452498
100 W HPS (Clear)	TYPE-V	452485
150 W HPS (Clear)	TYPE-V	452496
150 W HPS (Coated)	TYPE-V	452497
175 W MH (Clear)	TYPE-V	452488
175 W MH (Coated)	TYPE-V	452489
250 W MH (Clear)	TYPE-V	452484
250 W MH (Clear)	TYPE-V	452486
250 W MH (Coated)	TYPE-V	452487
400 W HPS (Clear)	SN2	451895
400 W MH (Clear)	SN2	451913
400 W HPS (Clear)	TYPE-V	452494
400 W MH ED28 (Coated)	MN-III	451914
100 ISOTRON (Coated)	TYPE-V	451898

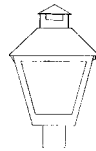
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POST MOUNT

Lamp info	Distribution	Curve#
70 W HPS	MN2	177688
100 W HPS	MN2	177688
150 W (55V) HPS	MN2	177688
70 W HPS	MN3	175719
100 W HPS	MN3	175719
150 W (55V) HPS	MN3	175719
70 W HPS	MS5	176928
100 W HPS	MS5	176928
150 W (55V) HPS	MS5	176928
175 W MH (Coated)	MN3	177509
175 W MH (Coated)	SN5	177508
175 W Merc (Coated)	MN3	177509
175 W Merc (Coated)	SN5	177508



TOWN & COUNTRY

T10C		
Lamp info	Distribution	Curve#
50 W HPS	MS5	177505
70 W HPS	MS5	177505
100 W HPS	MS5	177505
150 W (55V) HPS	MS5	177505
175 W MH (Coated)	SS4	177507
175 W MH (Coated)	SS5	177506
100 W Merc (Coated)	SS4	177507
100 W Merc (Coated)	SS5	177506
175 W Merc (Coated)	SS4	177507
175 W Merc (Coated)	SS5	177506

T10R		
Lamp info	Distribution	Curve#
50 W HPS	MS2	177502
50 W HPS	MS3	177503
70 W HPS	MS2	177502
70 W HPS	MS3	177503
100 W HPS	MS2	177502
100 W HPS	MS3	177503
150 W (55V) HPS	MS2	177502
150 W (55V) HPS	MS3	177503
175 W MH (Coated)	SS4	177504
100 W Merc (Coated)	SS4	177504
175 W Merc (Coated)	SS4	177504



SALEM

SEML		
Lamp info	Distribution	Curve#
50 W HPS	MS5	452855
70 W HPS	MS5	452854
100 W HPS	MS5	452853
150 W (55V) HPS	MS5	452852
100 W PMH	SS5	452856
150 W PMH	SS5	452857
175 W MH	SS5	452858

SEMT (TA and TL)		
Lamp info	Distribution	Curve#
50 W HPS	MS2	177678
50 W HPS	MS3	177679
70 W HPS	MS2	177678
70 W HPS	MS3	177679
100 W HPS	MS2	177678
100 W HPS	MS3	177679
100 W MH	MS2	452921
150 W HPS	MS2	177678
150 W HPS	MS3	177679
100 W PMH	MS3	452849
150 W PMH	MS3	452850
175 W MH	MS3	452851

SEMT (FG)		
Lamp info	Distribution	Curve#
50 W HPS	MC2	177735
50 W HPS	SC2	177736
70 W HPS	MC2	177735
70 W HPS	SC2	177736
100 W HPS	MC2	177735
100 W HPS	SC2	177736
150 W HPS	MC2	177735
150 W HPS	SC2	177736
100W ISOTRON	TYPE-V	452470
100 W MH (Coated)	SC2	452712
175 W MH (Clear)	MC3	452713
175 W MH (Clear)	SC2	452714
100 W PMH (Clear)	MC3	452718
150 W PMH (Clear)	MC3	452715
150 W PMH (Clear)	MC2	452716

AREA LIGHTING DECORATIVE POST TOP PHOTOMETRIC

A

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AREA LIGHTING DECORATIVE POST TOP DATA

AREA WALLIGHTER INDEX

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	Walllighter 400	W4L	A-72
	Walllighter 250 Cutoff	W25C	A-74
	Walllighter 175	W1LR, W1SR, W1LG, W1SG	A-76
	Walllighter 70	WS	A-78
	Wallmount™ 400	WMTS	A-80
	Wallmount™ 175	WM7M	A-82
	Wallmount™ 100	WM1M	A-84
	Wallmount™ Vandal-Proof	WMV	A-85
	WML Walllighter	WML	A-86
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	WP-50 HID FIXTURE	WP-50	A-88
	Replacer Ignitor Kit		R-44
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CRITERION™ WALLPACK LIGHTING

Featuring SnapDrive™



Forward Throw



Cut-off

APPLICATIONS

- Building perimeters, entrances, walkways and residential yards
- Loading docks and many other wall mounted areas

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Die-cast aluminum housing for strength, beauty and low maintenance
- Scaled family styling for a consistent site-enhancing look – day and night
- Concealed continuous gasket seals against harmful dust, dirt, moisture and insects
- Tool-less entry for easy, economical maintenance (except DM)
- Tamper-resistant option helps prevent unauthorized entry for security and safety (standard on DM)
- Pre-punched key hole mounting slots, for fast and easy installation

- Sliding notched hinge for quick and simple removal of the front housing (except DM)
- 70w features economical direct mounting ballasts
- Choice of a palette of standard colors, 188 RAL colors, or your own custom color in fade- and abrasion-resistant powder and liquid paints
- Cut-Off version to meet dark sky standards
- Forward Throw version includes field adjustable reflector for precise placement of light
- Reflector is computer optimized for MH lamps to maximize efficiency

- Rugged hydro-formed reflector for consistent, repeatable performance
- ALGLAS® coating seals reflectors from contaminants for superior long term performance
- 35w to 400w MH, PMH and HPS lamp operation (Consult ballast selection table in product brochure for availability.)
- Optional EZAdd Switched quartz (M)
- Optional single & dual fusing
- Optional button PE (must drill hole)
- Optional pre-drilled and plugged 1/2" conduit entrances left side, right side, and top of small and medium sized wallpacks

ORDERING NUMBER LOGIC

CCMX	40	M	0	A	2	A	WHITE	D	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE CONTROL	DISTRIBUTION	COLOR	ORIENTATION	OPTIONS
XXXX	XX	X	X	X	X	XX	XXXX	X	X
CCDX = Cut-off with Direct Mount Electricals (Vertical Lamp)	05 = 50 (DM) 07 = 70 (DM)	S = HPS M = MH P = Pulse Start MH	60Hz 0 = 120/208/ 240/277* MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 P = 120X277X347**	See Ballast Selection Table A = Autoreg H = HPF-LAG or Reactor N = NPF-LAG or Reactor	1 = No PE 3 = Button PE*	A = Forward Throw (CTXX only) B = Cut-off (CCXX only)	Standard Colors DKBZ = Dark Bronze BLCK = Black WHITE = White Special Colors Insert four digit color code from RAL Color Chart	U = Aimed up D = Aimed down	B = Time Delay Automatically Switched Quartz* F = Fusing** 003 = Pre-drill & plug conduit entrances (S & M sizes only) 004 = Tamper-resistant hardware (S & M sizes only) XXX = Special Options * Switched Quartz available in Medium only ** Fusing not available with multivolt
CCSX = Cut-off Small with SnapDrive (Vertical Lamp)	10 = 100 (S) 15 = 150 (S) (55V)								
CCMX = Cut-off Medium with SnapDrive (Vertical Lamp)	17 = 175 (S) 25 = 250 (M) 40 = 400 (M)	Lamp included unless otherwise requested.							
CTDX = Forward Throw with Direct Mount Electricals (Horizontal Lamp)									
CTSX = Forward Throw Small with SnapDrive (Horizontal Lamp)									
CTMX = Forward Throw Medium with SnapDrive (Horizontal Lamp)									
CCDC = Cut-off with Direct Mount Electricals (Vertical Lamp) for Canada									
CCSC = Cut-off Small with SnapDrive (Vertical Lamp) for Canada									
CCMC = Cut-off Medium with SnapDrive (Vertical Lamp) for Canada									
CTDC = Forward Throw with Direct Mount Electricals (Horizontal Lamp) for Canada									
CTSC = Forward Throw Small with SnapDrive (Horizontal Lamp) for Canada									
CTMC = Forward Throw Medium with SnapDrive (Horizontal Lamp) for Canada									

PHOTOMETRIC SELECTION TABLE

Type	Wattage	Source	Forward Throw/Photo Curve	Cutoff Photo Curve
Direct Mount-Electrical Components CCDX, CCDC CTDX, CTDC	35	HPS	451665	451772
	50	HPS	451666	451773
	70	HPS	451667	451774
	50	PMH	451669	451776
	70	PMH	451670	451777
Small w/SnapDrive CCSX, CCSC CTSX, CTSC	100	HPS	451671	451778
	150	HPS	451672	451779
	100	PMH	451673	451780
	150	PMH	451674	451781
	175	PMH	N/A	451782
	175	MH	451675	451783
Medium w/SnapDrive CCMX, CCMC CTMX, CTMC	250	HPS	451676	451784
	400	HPS	451677	451785
	250	PMH	N/A	451786
	400	PMH	N/A	451787
	250	MH	451678	451788
	400	MH	451679	451789

SUGGESTED CONFIGURATION

ENTRANCE/EXIT LIGHTING

70 watt	CCDX	07	P	O	N	1	B	DKBZ	D
	CTDX	07	P	O	N	1	A	DKBZ	D
175 watt	CCSX	17	P	O	A	1	B	DKBZ	D

LOADING DOCK AND SECURITY LIGHTING

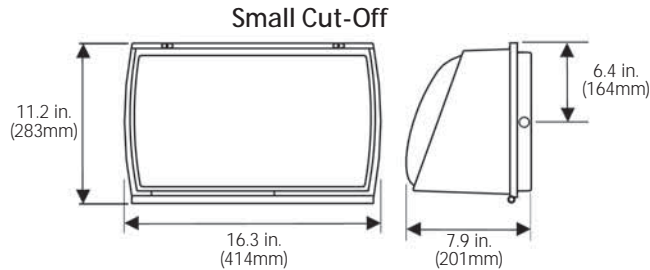
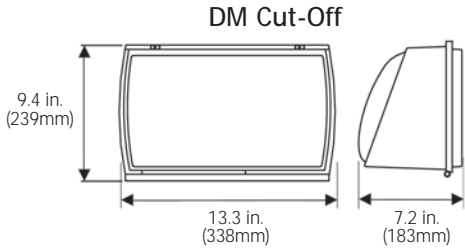
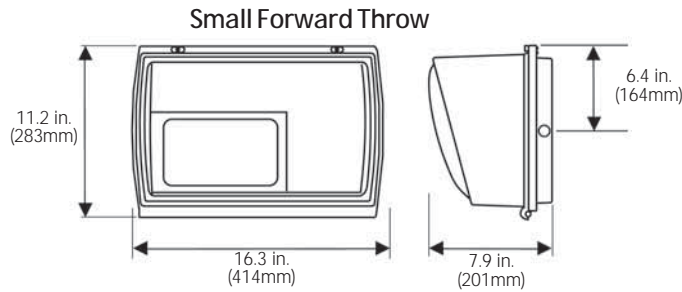
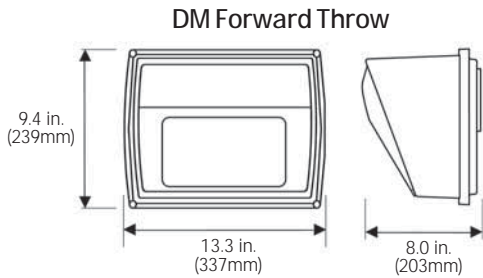
70 watt	CCDX	07	P	O	N	1	B	DKBZ	D
	CTDX	07	P	O	N	1	A	DKBZ	D
175 watt	CCSX	17	P	O	A	1	B	DKBZ	D
	CTSX	17	M	O	A	1	A	DKBZ	D
400 watt	CCMX	40	P	O	A	1	B	DKBZ	D
	CTMX	40	P	O	A	1	A	DKBZ	D

PARKING LOT LIGHTING

175 watt	CTSX	17	M	O	A	1	A	DKBZ	K
400 watt	CTMX	40	P	O	A	1	A	DKBZ	K

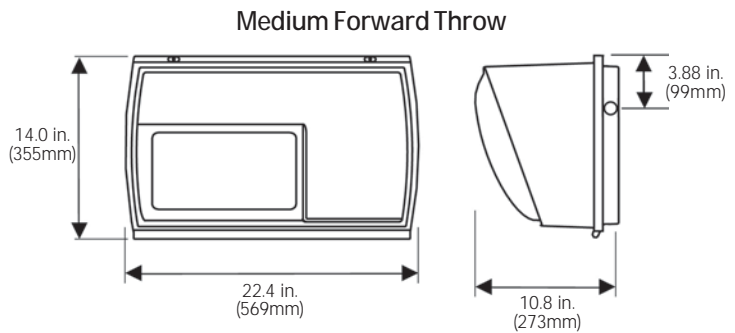
CRITERION™ WALLPACK LIGHTING

FIXTURE DIMENSIONS



DATA

Approximate Net Weight		
DM Forward Throw	12-14 lbs	5-6 kgs
DM Cut-Off	12-14 lbs	5-6 kgs
Small Forward Throw	17-19 lbs	8-9 kgs
Small Cut-Off	17-19 lbs	8-9 kgs
Medium Forward Throw	28-30 lbs	13-14 kgs
Medium Cut-Off	28-30 lbs	13-14 kgs
Typical Mounting Height		
DM Forward Throw	5-15 ft	1.5-4.5 M
DM Cut-Off	5-15 ft	1.5-4.5 M
Small Forward Throw	8-20 ft	2.4-6.1 M
Small Cut-Off	8-20 ft	2.4-6.1 M
Medium Forward Throw	10-30 ft	3.0-9.1 M
Medium Cut-Off	10-30 ft	3.0-9.1 M

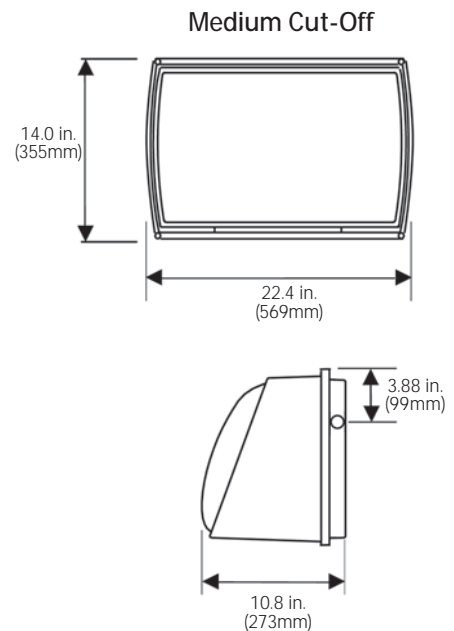


BALLAST SELECTION TABLE

All HID light sources are clear unless otherwise indicated.

Housing Type	Wattage	Source	Lamp Size	Multivolt	120	208	240	277	480	347	120 x 277 x 347
CCDX, CTDX	50	HPS	B17	H	H	H	H	H	H	N/A	N/A
	70	HPS	B17	N,H	N,H	N,H	N,H	N,H	N,H	N/A	N/A
	50	PMH	BD17	N/A	H	N/A	N/A	H	N/A	N/A	N/A
	70	PMH	BD17	N,H	N,H	N,H	N,H	N,H	N,H	N/A	N/A
CCSX, CTSX	100, 150	HPS	B17	H	H	H	H	H	N/A	N/A	N/A
	100, 150	PMH	BD17	H	H	H	H	H	N/A	N/A	N/A
	175	MH	BD17	A	A	A	A	A	A	N/A	N/A
	175	PMH	BD17	A	A	A	A	A	A	N/A	N/A
CCMX, CTMX	250, 400	HPS	ED28	A	A	A	A	A	A	N/A	N/A
	250, 400	MH	ED28	A	A	A	A	A	A	N/A	N/A
	250, 400	PMH	ED28	A	A	A	A	A	A	N/A	N/A
CCDC, CTDC Canada	50	HPS	B17	H	H	N/A	N/A	H	N/A	N/A	N/A
	70	HPS	B17	A,N,H	N,H	N/A	N/A	A,N,H	N/A	A	H
	50	PMH	BD17	N/A	N,H	N/A	N/A	N/A	N/A	N/A	N/A
	70	PMH	BD17	N,H	N,H	N/A	N/A	N,H	N/A	N,H	N/A
CCSC, CTSC Canada	100, 150	HPS	B17	N/A	H	N/A	N/A	H	N/A	H	H
	100, 150	PMH	BD17	N/A	H	N/A	N/A	A	N/A	H	H
	175	MH	BD17	N/A	A	N/A	N/A	A	N/A	A	A
	175	PMH	BD17	N/A	A	N/A	N/A	A	N/A	A	A
CCMC, CTMC Canada	250, 400	HPS	ED28	N/A	A	N/A	N/A	A	N/A	A	A
	250, 400	MH	ED28	N/A	A	N/A	N/A	A	N/A	A	A
	250, 400	PMH	ED28	N/A	A	N/A	N/A	A	N/A	A	A

NOTE: N/A = Not Available



REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



VERSAFLOOD II® WALLLIGHTER

APPLICATIONS

- High level wall mounted security and work lighting, tunnel and underpass lighting
- Anywhere optical performance is critical.

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Wet Locations
- Heavy-duty (NEMA) die-cast aluminum housing
- Protected inside and out with an electrocoat paint finish
- Formed reflector with ALGLAS® finish
- Sealed and activated-charcoal filtered optical assembly
- Flat, stippled, heat and shock resistant
- tempered glass or prismatic square borosilicate refractor
- Corrosion resistant hardware
- Photoelectric receptacle available
- Mogul base socket -E39 standard
- Surface mounted through back with 0.75 inch (19mm) threaded conduit
- 0.75 inch (19mm) threaded conduit openings – top and sides for through wiring

ORDERING NUMBER LOGIC

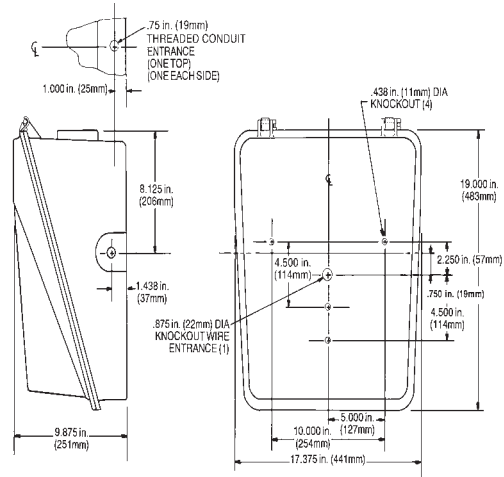
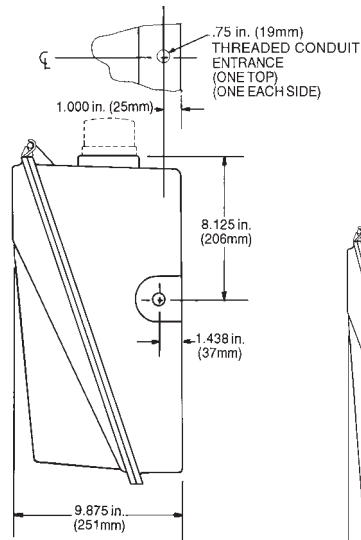
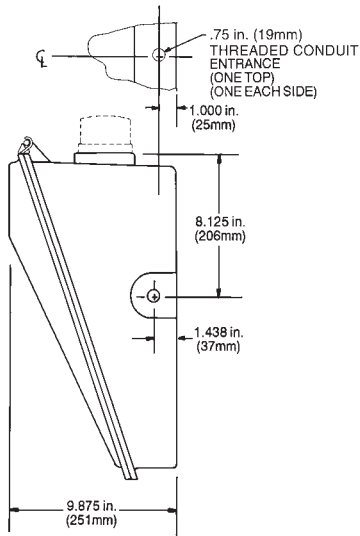
V2FW	40	S	1	A	1	PWA	DB	P
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	OPTICAL CONFIGURATION	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
V2FW= Versaflood II Walllighter	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 25 = 250 40 = 400 NOTE: Use square Refractor (P) for 400 watt	S = HPS M = MH or Merc P = Pulse Start Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 Y = 240	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart L = Super Low Loss Autoreg M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacles connected same voltage as unit except as noted. Order PE Control separately.	See Ballast and Photometric Selection Table PWA = Square Refractor Wide Optics Socket Position (Factory Selected Optimum) SNA = Stippled Flat Glass Narrow Optics Socket Position (Factory Selected Optimum)	DB = Dark Bronze (Standard) GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt) L = Latch on door P = Prewired with 6 ft (1.8 meters) #14/3 Q = Non-Time Delay Automatically Switched Quartz

VERSAFLOOD II® WALLIGHTER

FIXTURE DIMENSIONS

S = Stippled Flat Glass

P = Square Refractor



DATA

Approximate Net Weight	27-45 lbs	12-20 kgs
Suggested Mounting Height	0-20 ft.	0-6 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage						Optical Configuration	IES Distribution Type	Photometric Curve No. 35-----
		60Hz			50Hz					
		Multi-volt	120, 208, 240, 277, 480	347	220	220	240			
70, 100, 150 (55V)	HPS	H	G,H,K,M	G,H,M	N/A	H	H	SNA	SN4	452862
70, 100, 150 (55V)	HPS	H	G,H,K,M	G,H,M	N/A	H	H	PWA	SN4	178578
200-400	HPS	A	A,P	A,P	A	N/A	N/A	SNA	SN4	452863
200-400	HPS	A	A,P	A,P	A	N/A	N/A	PWA	SN2	178577
175, 250	MH	A	A	A, L	A	A	A	SNA	SN4	452861
175, 250	MH	A	A	A, L	A	A	A	PWA	SN2	178579
400	MH/Merc	A	A,P	A, L, P	A	N/A	N/A	PWA	SN2	178580

NOTE: N/A = Not Available. C/F = Contact Factory.

REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.



WALLIGHTER 400 LUMINAIRE

APPLICATIONS

- Underpasses, loading docks and building perimeter security
- Applications where a high wattage wall mounted luminaire is needed

SPECIFICATION FEATURES

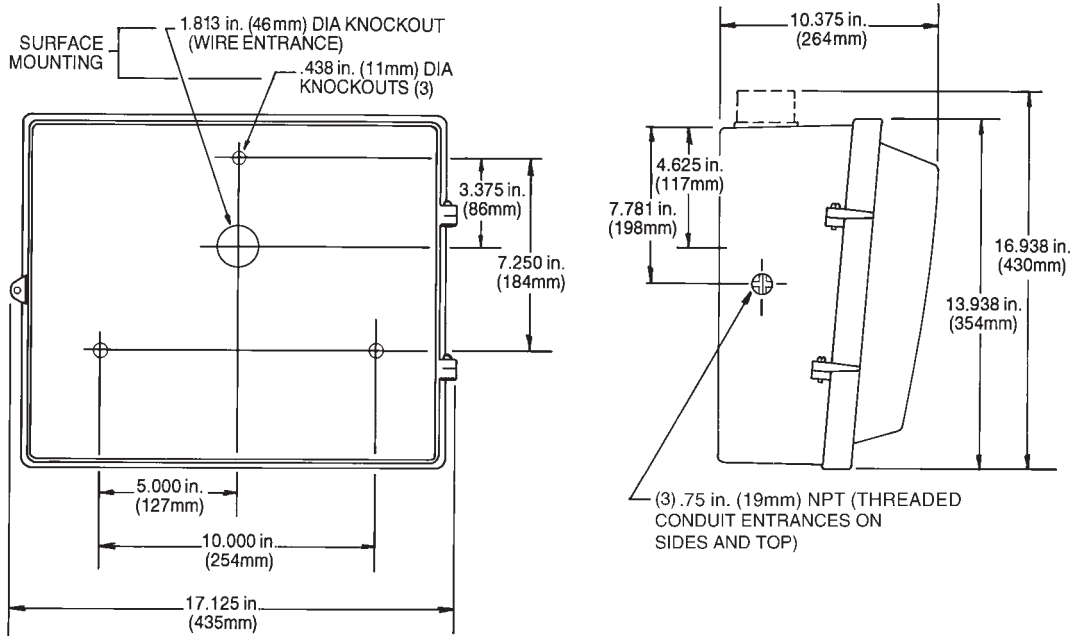
- / 1598 Listed
Suitable For Wet Locations
- Sealed and charcoal filtered housing
- Die-cast aluminum housing protected inside and out with dark bronze electrocoat paint finish
- ALGLAS® finish on aluminum reflector
- Heat and impact resistant prismatic glass refractor
- Pre-wired terminal board and integral direct-mounted ballast
- .75 in. (19mm) NPT conduit entrances sides and top
- Photoelectric receptacle available
- Mogul base socket -E39 standard
- Magnapack packaging available

ORDERING NUMBER LOGIC

W4L	25	S	0	A	1	SN4	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXX	XX	X	X	X	X	XXX	XX	XXX
W4L = Wallighter 400	15 = 150 (55V) 17 = 175 20 = 200 25 = 250 40 = 400	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 Y = 240	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Vertical mounting only. Order PE Control separately.	See Ballast and Photometric Selection Table SN4 = Short, Non-cutoff, Type IV	DB = Dark Bronze	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt) L = Latch on door S = External Slipfitter for 1-1/4 inch (32mm) diameter Pipe Mounting Ø48 = External Slipfitter for 2 in. (51mm) diameter pipe mounting

WALLIGHTER 400 LUMINAIRE

FIXTURE DIMENSIONS



WALLIGHTER 400 AREA LIGHTING

A

DATA

Approximate Net Weight	27-45 lbs	12-20 kgs
Effective Projected Area	1.5 sq ft max	0.15 sq M max

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage							IES Distribution Type	Photometric Curve Number 35-17----
		60Hz				50Hz				
		Multi-volt	120, 208, 240, 277	347	480	220	220	240		
150 (55V)	HPS	H,N	G,H,K,M,N	H,M,N	M	N/A	N/A	H,M	SN4	9714
200, 250, 400	HPS	A	A,P	A,P	A,P	A	A	A	SN4	9664
175, 250, 400	MH	A	A	A	A	A	A	A	SN4	9713
	MH	A	A,P	A,P	A,P	N/A	CF	CF	SN4	9665
175, 250	Merc	C	C	N/A	C	N/A	N/A	N/A	SN4	9713
	Merc	C	A	N/A	A	N/A	N/A	N/A	SN4	9713

NOTE: N/A = Not Available.
CF = Contact Factory.

REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.



WALLIGHTER 250 CUTOFF LUMINAIRE

APPLICATIONS

- Building perimeters, entrances, walkways and residential yards
- Loading docks and many other wall mounted area lighting applications

SPECIFICATION FEATURES

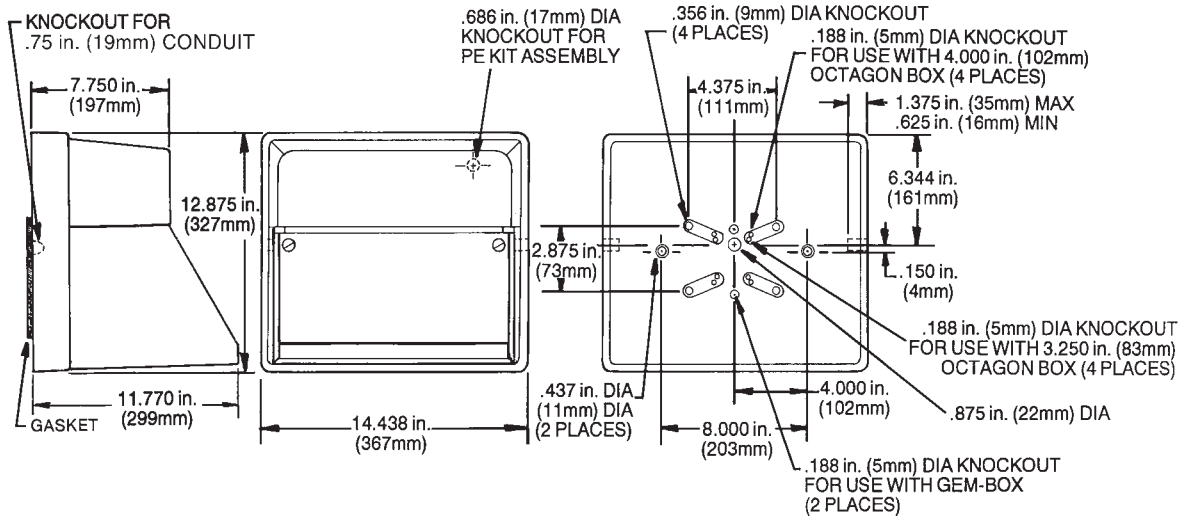
- 1598 Listed
Suitable For Wet Locations
- Three-piece die-cast aluminum housing protected inside and out with dark bronze electrocoat finish
- Enclosed, gasketed, with anodized aluminum reflector and tempered glass bottom closure
- Standard and tamper resistant hardware included
- Thru-feed conduit entrance on side with built-in conduit clamps
- Front access to ballast components when installed
- Mogul (E39 standard) or medium base (E26 standard) sockets

ORDERING NUMBER LOGIC

W25C	25	S	0	A	1	G	MGL	DB	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	LAMP BASE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
W25C = Wallighter 250 (250 watt max.) luminaire with cutoff optics	See Ballast and Photometric Selection Table 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 25 = 250 77 = 70/75	See Ballast and Photometric Selection Table S = HPS M = MH or Merc (with 175W only)	See Ballast and Photometric Selection Table 60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 20X347	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 3 = Internal PE Control For PE Kit, see Accessories	G = Glass	For IES Optical Configuration See Ballast and Photometric Selection Table MGL = Mogul base E39 (Standard without lamp) MED = Medium base E26 (Standard with lamp)	DB = Dark Bronze	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt) Q = Non-Time Delay Automatically Switched Quartz

WALLIGHTER 250 CUTOFF LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	15-30 lbs	8-14 kgs
Suggested Mounting Height	8-20 ft	2-6 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage							IES Distribution Type	Photometric Curve Number 35-17----	
		60Hz									
		Multivolt	120	208	240	277	480	347, 120X347			
MOGUL BASE LAMP (NOT INCLUDED)											
50	HPS	H	H, K, N	H	H	H	H	N/A	H	SC3	8825
70, 100, 150(55V)	HPS	H	G, H, K, M	G, H, M	G, H, M	G, H, M	G, H, M	G, H, M	G**, M	SC3	8825
200*	HPS	A	A	A	A	A	A	C/F	A	SC3	8830
250*	HPS	A	A	A	A	A	A	A	A	SC3	8830
175	MH	A	A	A	A	A	A	A	A	SC3	8828
250*	MH	A	A, P	A, P	A, P	A, P	A, P	A, P	A, P	SC3	8831
MEDIUM BASE LAMP INCLUDED)											
50, 70, 100, 150(55V)	HPS	N	N	N/A	N/A	N/A	N/A	N/A	N/A	SC3	8833
70, 100	MH	H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SC3	8835
175	MH	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SC3	8837

NOTE: *Horizontal lamp operation C/F = Contact Factory N/A = Not Available **347 Volt Only

REFERENCES

See Page A-89 for start of Accessories.
 See Page A-93 for Explanation of Options and Other Terms Used.



WALLIGHTER 175 LUMINAIRE

APPLICATIONS

- Building perimeters, entrances, walkways and residential yards
- Loading docks and many other wall mounted area lighting applications

SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- Two-piece die-cast aluminum housing
- Acrylic refractor or vandal-resistant polycarbonate refractor
- Mogul (E39 standard) or medium base (E26 standard) sockets
- Standard and tamper resistant hardware included
- Thru-feed conduit entrance on side with built-in conduit clamps
- Front access to ballast when mounted
- For field installed Internal Glare Shield (IGS-WL175) see Accessories
- Magnapack packaging available

ORDERING NUMBER LOGIC

W1LR	10	S	0	H	1	A	SN4	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
W1LR = Wallighter 175 (Mogul Base E39 Socket Standard without Lamp)	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg N = NPF Reactor or Lag	1 = None For PE Kit, see Accessories 3 = Internal PE control* *Not available with multivolt	A = Acrylic L = Polycarbonate* *Not for car wash applications	See Ballast and Photometric Selection Table SN2 = Short Non-cutoff Type II SN3 = Short Non-cutoff Type III SN4 = Short Non-cutoff Type IV SS3 = Short Semi-cutoff Type III SS4 = Short Semi-cutoff Type IV MN4 = Medium Non-cutoff Type IV	DB = Dark Bronze	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) Q = Non-Time Delay Automatically Switched Quartz
W1SR = Wallighter 175 (Medium Base E26 Socket Standard with Lamp)	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH or Merc (with 175W only)	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 Y = 240						
W1LG = Wallighter 175 (Mogul Base E39 without Lamp with Internal Glare Shield)									
W1SG = Wallighter 175 (Medium Base E26 with Lamp and Internal Glare Shield)									

REFERENCES

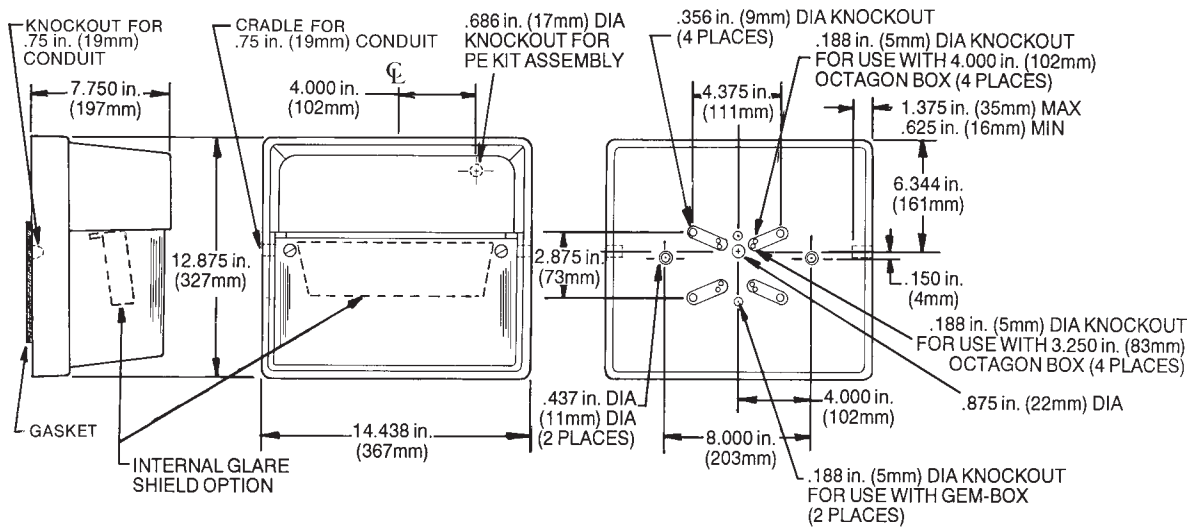
See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.

WALLIGHTER 175 LUMINAIRE

WALLIGHTER 175 AREA LIGHTING

A

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	15-25 lbs	6-9 kgs
Suggested Mounting Height	8-20 ft.	3-7 M
Effective Projected Area	1.0 sq ft max	0.09 sq M max

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage										Acrylic		Polycarbonate	
		60Hz					50Hz					IES Distribution Type	Photometric Curve Number 35-17----	IES Distribution Type	Photometric Curve Number 35-17----
		Multi-volt	120	208	240	277	480	347, 120X347	220	220	240				
W1LR MOGUL BASE WITHOUT LAMP															
50	HPS	H	H, K, N	H	H	H	N/A	H	H	H	N/A	SN4	8047	SN4	8046
70, 100, 150(55V)	HPS	H, K	G, H, K, M	G, H, M	G, H, M	G, H, M	G, M	H	N/A	H, M	H	SN4	8047	SN4	8046
175	MH or Merc	A	A	A	A	A	A	A	A	A	A	SN4	8051	SN4	8050
175	MH or Merc (Coated)	A	A	A	A	A	A	A	A	A	A	SN4	8049	SN4	8048
W1SR MEDIUM BASE WITH LAMP															
70, 100, 150(55V)	HPS	H, N	H, N	N/A	N/A	H, N	H	H, N	N/A	H, M	H	SN3	8053	SN3	8052
70, 100	MH (only)	H, N	H, N	H, N	N/A	H, N	H, N	H, N	N/A	N/A	N/A	SN2	8055	SN2	8054
70, 100	MH (only) (Coated)	H, N	H, N	H, N	N/A	H, N	H, N	H, N	N/A	N/A	N/A	SN2	8057	SN2	8056
175	MH or Merc	A	A	N/A	N/A	A	A	A	A	A	A	SN2	8055	SN2	8054
175	MH or Merc (Coated)	A	A	N/A	N/A	A	A	A	A	A	A	SN2	8057	SN2	8056
W1LG MOGUL BASE WITHOUT LAMP WITH INTERNAL GLARE SHIELD															
50	HPS	H	H, K, N	H	H	H	H	H	H	H	N/A	C/F	C/F	SN4	8476
70, 100, 150(55V)	HPS	H	G, H, K, M	G, H, M	G, H, M	G, H, M	G, M	H	N/A	H, M	H	C/F	C/F	SN4	8476
175	MH or Merc	A	A	A	A	A	A	A	A	A	A	C/F	C/F	MN4	8477
175	MH or Merc (Coated)	A	A	A	A	A	A	A	A	A	A	C/F	C/F	SS4	8478
W1SG MEDIUM BASE WITH LAMP WITH INTERNAL GLARE SHIELD															
70, 100, 150(55V)	HPS	H, N	H, N	N/A	N/A	H, N	H	H, N	N/A	H, M	H	C/F	C/F	SS3	8479
70, 100	MH (only)	H, N	H, N	H, N	N/A	H, N	H, N	H, N	N/A	N/A	N/A	SN3	9122	C/F	C/F
70, 100	MH (only) (Coated)	H, N	H, N	H, N	N/A	H, N	H, N	H, N	N/A	N/A	N/A	SN4	9125	C/F	C/F
175	MH or Merc	A	A	N/A	N/A	A	A	A	A	A	A	SN3	450685	C/F	C/F
175	MH or Merc (Coated)	A	A	N/A	N/A	A	A	A	A	A	A	SS3	450686	C/F	C/F

NOTE: N/A = Not Available C/F = Contact Factory



WALLIGHTER 70 LUMINAIRE

APPLICATIONS

- Office and shopping complexes, schools, malls, parking garages, motels, condominiums and residences
- Small, aesthetically attractive luminaire with the power saving advantage of high-pressure sodium (HPS) lighting

SPECIFICATION FEATURES

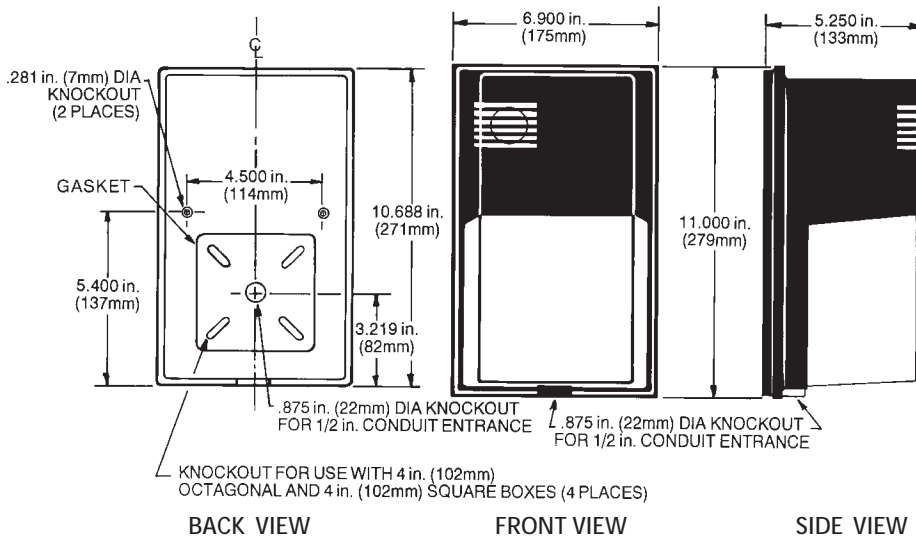
- 1598 Listed
Suitable For Wet Locations
- Die-cast aluminum mounting base with dark bronze paint finish
- Compact one-piece polycarbonate front housing
- Versatile mounting provisions allow for mounting to standard 4-in. (76mm or 102mm) outlet boxes, 1/2-in. (13mm) conduit, or directly onto any flat surface
- Easy access to optical and electrical compartments affords quick installation and maintenance
- Knockout for field installation of PE control
- Standard and tamper resistant hardware included
- Medium base socket – E26 standard with coated lamp
- NPF reactor ballast

ORDERING NUMBER LOGIC

WS	03	S	1	PE
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	PHOTOELECTRIC CONTROL
XX	XX	X	X	XX
WS = Wallighter 70 Luminaire	03 = 35 05 = 50 07 = 70 26 = 26W CFL (2 x 13)	S = HPS Standard: Lamp included	1 = 120	PE = PE if required

WALLIGHTER 70 LUMINAIRE

FIXTURE DIMENSIONS



WALLIGHTER 70 AREA LIGHTING

A

DATA

Approximate Net Weight	6 lbs	3 kgs
Suggested Mounting Height	5-12 ft.	2-4 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

Voltage	Light Source	Ballast Type 120 Volt	IES Distribution Type	Photometric Curve Number
35, 50, 70	HPS (Coated)	NPF Reactor	Long Non-Cutoff Type IV	35-17 - - - -

REFERENCES

See Page A-93 for Explanation of Options and Other Terms Used.



WALLMOUNT™ 400 LUMINAIRE

APPLICATIONS

- Building perimeter security, high-activity entrances, loading docks and small work areas adjacent to buildings
- Wall mounted luminaire applications where high light levels and low costs are required

SPECIFICATION FEATURES

- / 1598 Listed
- **Suitable for Wet Locations**
- Die-cast aluminum housing means rugged, long-lasting construction
- Dark Bronze polyester powder paint finish is standard. Choice of colors is optional. Provides corrosion resistance with a decorative finish
- Easily removable, side-hinged, gasketed door
- Complete front access to lamp and ballast for easy maintenance and relamping
- Multiple threaded conduit entrances
- Factory-installed UL Listed internal button photoelectric control provides dusk-to-dawn operation. Field installed (Non-UL Listed) PE kit is optional
- Enclosed and gasketed borosilicate glass refractor provides long-lasting, non-yellowing optics with high thermal and impact resistance.
- Mogul base porcelain lamp socket – E39 standard
- Improved packaging design keeps glass refractor and die-cast housing separate to significantly reduce chances of glass fracture during shipment

ORDERING NUMBER LOGIC

WMTS	40	S	0	DB	PE
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	COLOR*	OPTIONS*
XX	XX	X	X	XX	XXX
WMTS = Wallmount 400 Luminaire	17 = 175 25 = 250 40 = 400	S = HPS M = MH or Merc Standard: Lamp not included	60 Hz 0 = 120/208/ 240/277/ Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120x347	DB = Dark Bronze (standard) GR = Gray WH = White *NOTE: Factory installed PE and non standard color require longer lead times. Contact factory.	PE = Factory-installed button photoelectric control. Discrete voltage required — specify 120, 208, 240, 277 or 347 volt. *NOTE: Not available in 120x347 or 480 volt.

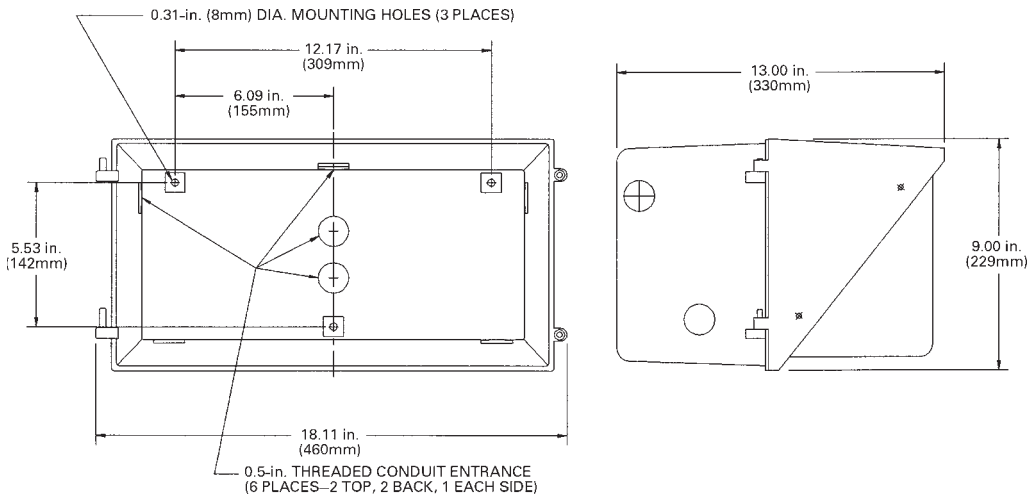
BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage (60Hz)			Photometric Curve Number 35-45 - - -
		Multivolt	480	120X347	
250	HPS	A	A	A	1134
400	HPS	A	A	A	1133
175	MH	A	A	A	1137
250	MH	A	A	A	1135
250	MH (Coated)	A	A	A	1136
400	MH	A	A	A	1131
400	MH (Coated)	A	A	A	1132

WALLMOUNT™ 400 LUMINAIRE

FIXTURE DIMENSIONS



WALLMOUNT 400 AREA LIGHTING

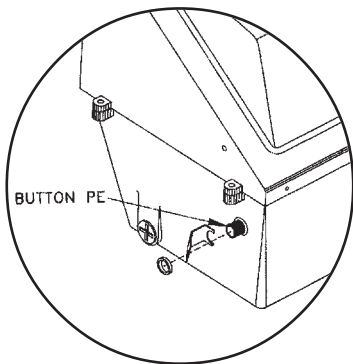
A

DATA

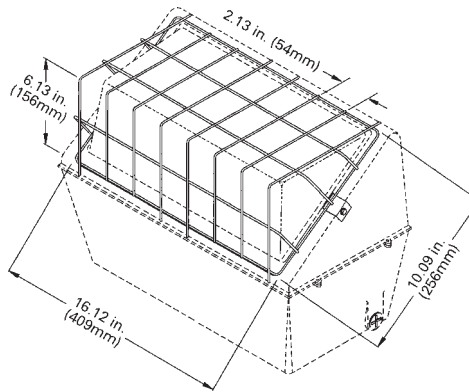
Approximate Net Weight	25-40 lbs	11-18 kgs
Suggested Mounting Height	8-20 ft.	2-6 M

ACCESSORY DIMENSIONS

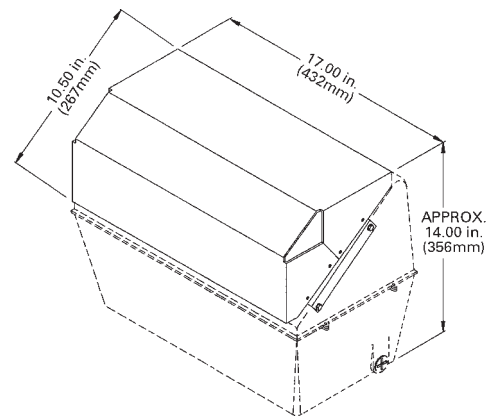
PHOTOELECTRIC CONTROL KIT



WIRE GUARD WG-WMTS



POLYCARBONATE VANDAL SHIELD LVS-WMTS



REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.



WALLMOUNT™ 175 LUMINAIRE

APPLICATIONS

- Building perimeters, entrances, walkways, residential yards and loading docks
- Area lighting applications where a glass refractor is needed or desired

SPECIFICATION FEATURES

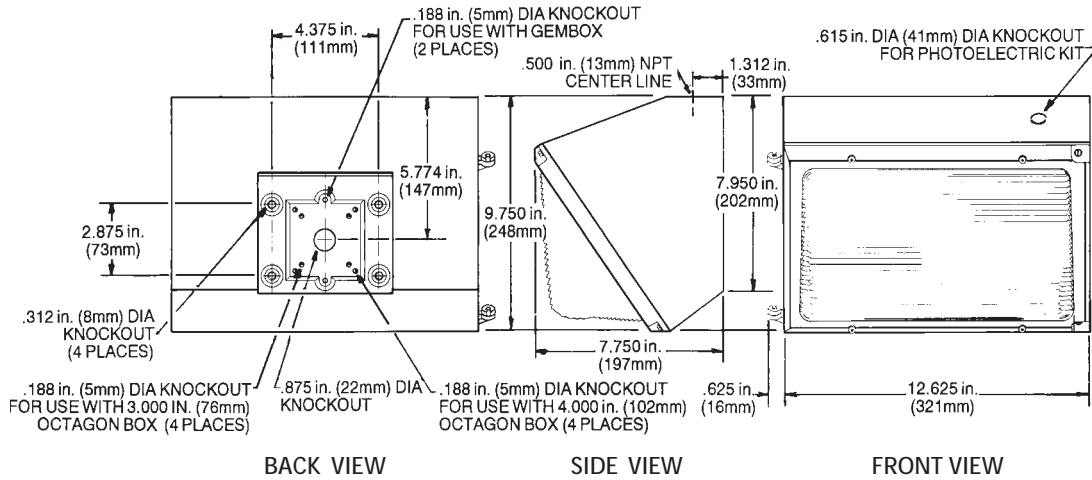
- / 1598 Listed
- **Suitable For Wet Locations**
- UL listed to Canadian National Standards and Codes
- Die-cast aluminum housing and door
- Prismatic borosilicate refractor
- Standard and tamper-resistant hardware included
- Complete front access to ballast and lamp
- Side-hinged front door
- Multiple junction box mounting patterns (3.25 in. [83mm] octagonal, 4-in. [102mm] octagonal, 2-in. X 4-in. [51X102mm] rectangle)
- Top .5 in. (13mm) threaded conduit entrance
- “Snap-in” anodized aluminum reflector
- Electrocoat paint finish
- Knock-out for field installed photoelectric control kit (Order kit separately)
- Two socket sizes available: mogul base – E39 standard and medium base – E26 standard (lamp included with medium base)
- Enclosed and Gasketed

ORDERING NUMBER LOGIC

WM7M	15	S	1	H	1	SN4	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IES DISTRIBUTION TYPE	COLOR	OPTIONS*
XXXX	XX	X	X	X	X	XXX	XX	XXX
WM7M = Wallmount 175 Luminaire (Mogul Base E39 Socket Standard without Lamp)	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table	See Ballast and Photometric Selection Table	1 = None 3 = Internal PE Control	See Ballast and Photometric Selection Table SN4 = Short, Non-cutoff, Type IV	DB = Dark Bronze GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing—Not available with multivolt or 120X347 volt (Non-UL) L = Latch on door (Non-UL) Q = Non-Time Delay Automatically Switched Quartz
WM7S = Wallmount 175 Luminaire (Medium Base E26 Socket Standard with Lamp)	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 *NOTE: 120X347V connected for 120V	A = Autoreg H = HPF Reactor or Lag K = Hot Restart* N = NPF Reactor or Lag *Available in WM7M only.				

WALLMOUNT™ 175 LUMINAIRE

FIXTURE DIMENSIONS



WALLMOUNT 175 AREA LIGHTING

A

DATA

Approximate Net Weight	20-25 lbs	9-11 kgs
Suggested Mounting Height	8-20 ft	3-6 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage							IES Distribution Type	Photometric Curve Number 35-17----
		60Hz				50Hz				
		Multivolt	120	208, 240 480	277	347, 120X347	220	220		
WM7M Mogul Base Without Lamp										
50, 70, 100, 150 (55V)	HPS	H, N	H, K, N	H, N	H, N	H	H	H	SN4	7576
175	MH	A	A	A	A	A	A	A	SN4	7580
WM7S Medium Base With Lamp										
50, 70, 100, 150 (55V)	HPS	H, N	H, N	N/A	H, N	N/A	N/A	H	SN4	7576
70, 100	MH	H	N/A	N/A	N/A	N/A*	N/A	H	SN4	7580
175	MH	A	N/A	N/A	N/A	N/A	N/A	N/A	SN4	7580

NOTE: N/A = Not Available. *347 available "H"

REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.

WALLMOUNT™ 100 LUMINAIRE



APPLICATIONS

- Building perimeters, entrances, walkways and residential yards
- Any place a compact, wall mounted luminaire is required

SPECIFICATION FEATURES

- / 1598 Listed
- **Suitable For Wet Locations**
- Heavy-Duty die-cast aluminum housing
- Knockout for field installed photoelectric control kit (Order kit separately – see Accessories Section)
- Specular anodized reflector
- UV stabilized polycarbonate refractor
- Complete front access to lamp and ballast
- .5 in. (13mm) NPS tapped top and sides for conduit entrances
- Medium base socket – E26 standard
- Lamp included
- Molded silicone gasket

A

ORDERING NUMBERS

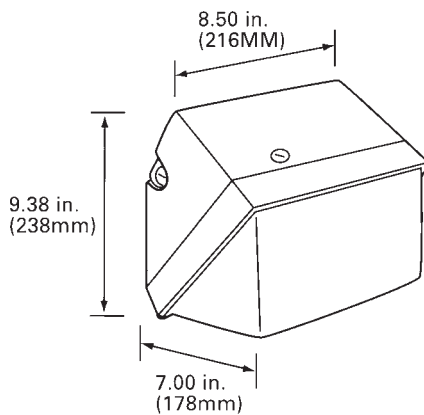
ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PHOTOMETRIC CURVE 35-17 - - -
WM1M05S1N*	50	HPS	120	NPF	9653
WM1M07S1N*	70	HPS	120	NPF	9653
WM1M10S1N*	100	HPS	120	NPF	9653
WM1M05M1N*	50	MH	120	NPF	9654
WM1M07M1N*	70	MH	120	NPF	9654
WM1M10MHN*	100	MH	120 X 277	NPF	9654

*Add color choice to end of Ordering Number: DB = Bark Bronze, WH = White

DATA

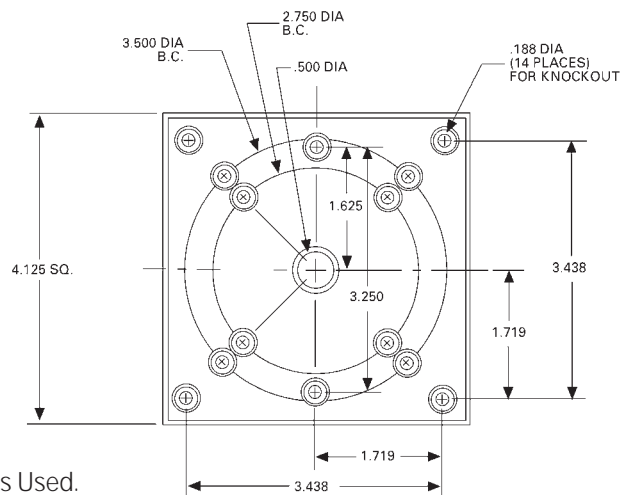
Approximate Net Weight	7.5 lbs	3.4 kgs
Suggested Mounting Height	8-20 ft.	2.5-6 M

FIXTURE DIMENSIONS



ACCESSORIES

- Mounting Plate **MP-WMIM**
- Tamper-proof T-15 Center Pin
- Torx-head screwdriver **C740G989**



REFERENCES





See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.

WALLMOUNT™ LUMINAIRE

APPLICATIONS

- Office and shopping complexes, malls, parking garages, motels and condominiums
- Wall or ceiling mounted applications where a vandal-resistant luminaire is needed

SPECIFICATION FEATURES

-   1598 Listed
Suitable For Wet Locations – Ceiling Mount
-   1598 Listed
Suitable For Damp Locations – Wall Mount
- Dark Bronze finish
- Easy access to optical and electrical

compartment for quick installation and maintenance

- Lamp included
- Medium base socket for HPS lamps – E26 standard



WALLMOUNT VANDAL-RESISTANT AREA LIGHTING

A

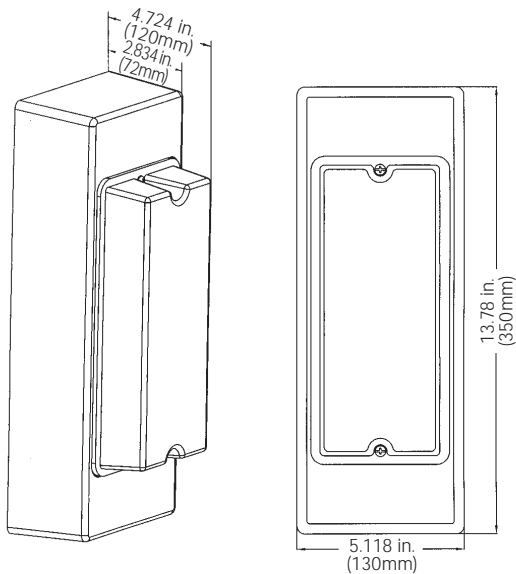
ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PHOTOMETRIC CURVE 35-17 - - -
WMV35S1NDB	35	HPS	120	NPF	9655
WMV50S1NDB	50	HPS	120	NPF	9655
WMV26F1NDB	26	Fluorescent (0°C)	120	NPF	9656

DATA

Approximate Net Weight	6 lbs	2.7 kgs
Suggested Mounting Height	5-12 ft.	1.5-3.5 M

FIXTURE DIMENSIONS



ACCESSORIES

Tamper-resistant T-15 Center Pin
 Torx-head screwdriver **C740G989**

REFERENCES

See Page A-89 for start of Accessories.
 See Page A-93 for Explanation of Options and Other Terms Used.



WML WALLLIGHTER LUMINAIRE

APPLICATIONS

- Building perimeters, entrances, walkways, residential yards, loading docks, garages and apartments
- Wall mounted lighting applications where the ruggedness of polycarbonate material and the energy saving potential of high pressure sodium (HPS) lighting is desired

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Dark bronze paint finish
- Die-cast aluminum mounting plate
- One-piece polycarbonate front/lens
- Variety of mounting box patterns
- Medium base HPS lamp included – E26 standard
- Energy-efficient 120 volt NPF reactor ballast
- Knockout conduit entrance
- Field installed photoelectric control available – see PEK kits in Accessories

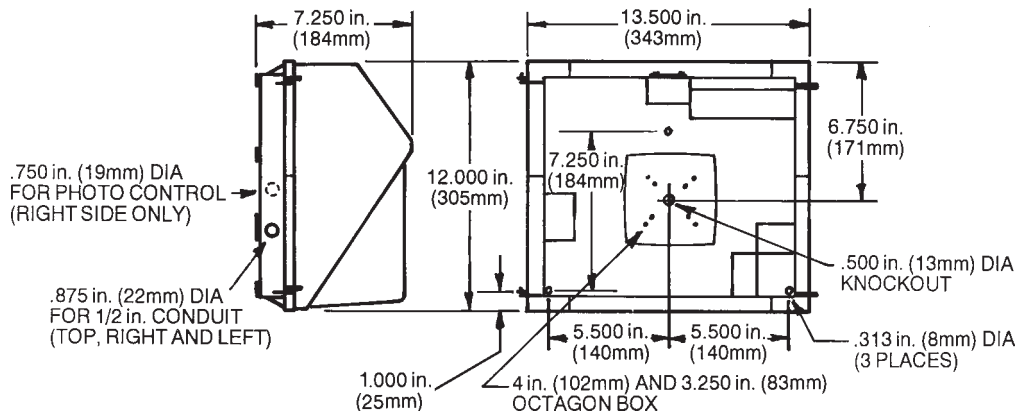
ORDERING NUMBERS (MEDIUM BASE WITH LAMP)

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PHOTOMETRIC CURVE
WML07S	70	HPS	120	NPF	178315
WML10S	100	HPS	120	NPF	178315
WML15S	150	HPS	120	NPF	178315

DATA

Approximate Net Weight	10-15 lbs	5-7 kgs
Suggested Mounting Height	8-20 ft.	2.5-6 M
Photometric Curve: Clear Lamp 70-150W HPS	35-178315	

FIXTURE DIMENSIONS



REFERENCES

See Page A-89 for start of Accessories.
See Page A-93 for Explanation of Options and Other Terms Used.

SBW[®] MULTIPURPOSE LUMINAIRE



APPLICATIONS

- For many wall and ceiling mounted lighting applications in commercial, institutional and light industrial locations where the energy saving potential of high pressure sodium (HPS) lamps is desired.

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Wet Locations
- Energy efficient medium base coated lamp included – E26 standard
- Die-cast aluminum housing with electrocoat dark bronze paint finish
- Vandal-resistant polycarbonate refractor
- Tamper-resistant hardware included
- Ceiling or wall mounting
- Mounts directly to outlet box
- Five-year fixture failure warranty
- HPF ballast available
- Photoelectric control available (field installed)

SBW MULTIPURPOSE AREA LIGHTING

A

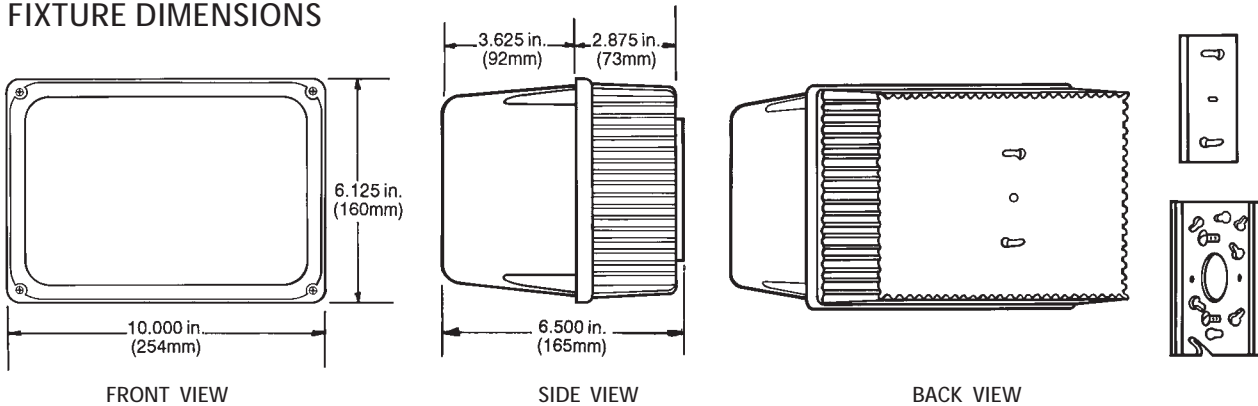
ORDERING NUMBER LOGIC

SBW	03	S	1	H	006
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE CONTROL
XXX	XX	X	X	X	XXX
SBW = SBW Luminaire	03 = 35 05 = 50 07 = 70 (Wall-mounted horizontal only)	S = HPS Standard: Lamp included	1 = 120	H = HPF Reactor N = NPF Reactor	006 = PE control

DATA

Approximate Net Weight 5 lbs 2.2 kgs

FIXTURE DIMENSIONS



BALLAST, MOUNTING AND PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Mounting	Ballast Type 120 Volt	Photometric Curve Number
35, 50	HPS	Ceiling or wall (Horizontal or Vertical)	H, N	7239
70	HPS	Wall only (Horizontal only)	H, N	7240

REFERENCES
 See Page A-89 for start of Accessories.
 See Page A-93 for Explanation of Options and Other Terms Used.

WP-50 HID FIXTURE

APPLICATIONS

- Idea for Security lighting, Walkways, Stairways, Entrance, Residential, Indoor garage and Residence perimeter

SPECIFICATION FEATURES

- Sturdy die-casting aluminum housing with architectural bronze polyester powder coating
- UV stabilized opal polycarbonate ball or cylindrical lens
- Built-in photocell (Optional)
- Lamp Included

•   1598 Listed

Suitable for wet location

E178685 for HID fixture

E183509 for Fluorescent fixture

WP-50 AREA LIGHTING

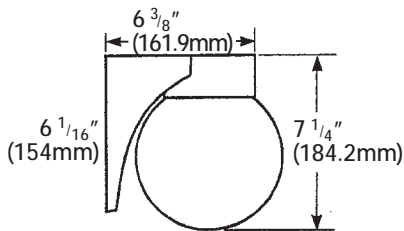
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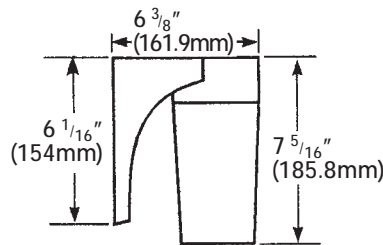
ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LAMP SOURCE	VOLTAGE	PE CONTROL	GLOBE	UPC
WP03S1CPE	35	HPS	120	YES	Cylindrical	153594
WP03S1C	35	HPS	120	NO	Cylindrical	153595
WP03S1BPE	35	HPS	120	YES	Ball	153596
WP03S1B	35	HPS	120	NO	Ball	153597
WP05S1CPE	50	HPS	120	YES	Cylindrical	153598
WP05S1C	50	HPS	120	NO	Cylindrical	153599
WP05S1BPE	50	HPS	120	YES	Ball	153600
WP05S1B	50	HPS	120	NO	Ball	153601
WP26CFL1CPE	26 (2x13)	Fluorescent	120	YES	Cylindrical	153602
WP26CFL1C	26 (2x13)	Fluorescent	120	NO	Cylindrical	153603

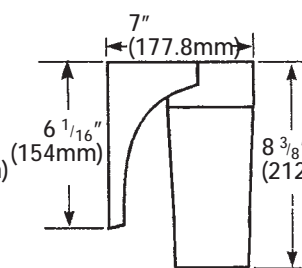
HPS BALL



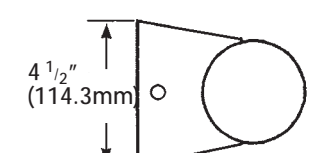
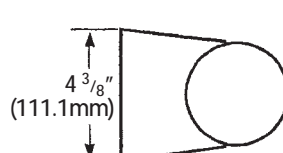
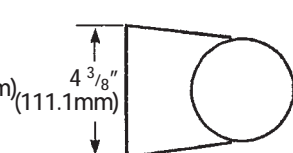
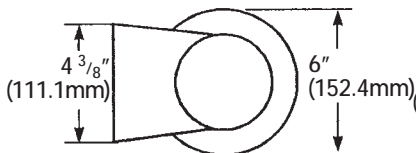
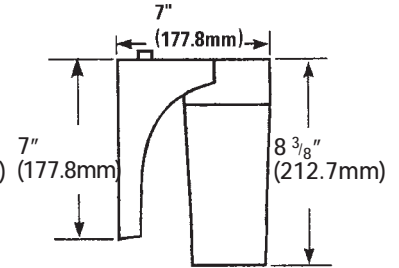
HPS CYLINDRICAL



FLUORESCENT



FLUORESCENT with PE



REFERENCES

See Page A-93 for Explanation of Options and Other Terms Used.

AREA WALLIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LEGEND: /////////////// = Accessory can be used.

LEGEND: /////////////// = Accessory can be used.

INDEX	PRODUCT						
ORDERING NUMBER	Criterion Wallpack	Versaflood II	Wallighter 400	Wallighter 175 and 250 Cutoff	Wallmount 400	Wallmount 175	SBW
INTERNAL GLARE CONTROL SHIELD							
IGS-WL175				////////			
MOUNTING BRACKET (For PE)							
MB-PECTL		////////	////////	////////	////////	////////	////////
PHOTOELECTRIC CONTROL							
PEC0TL		////////	////////				
PEC1TL		////////	////////				
PEC5TL		////////	////////				
PHOTOELECTRIC CONTROL KIT							
PEK-120	////////			////////	////////	////////	
PEK-120SBW							////////
PEK-240	////////			////////	////////	////////	
PEK-277	////////			////////	////////	////////	
PEK-347	////////			////////	////////	////////	
POLE TOP ADAPTER (For PE Receptacle)							
PTA-PECTL	////////	////////	////////	////////	////////	////////	////////
POLYCARBONATE VANDAL SHIELD							
LVS-V2FWP		////////					
LVS-W40L001			////////				
LVS-W40L002			////////				
LVS-WMNS					////////		
LVS-WM7						////////	

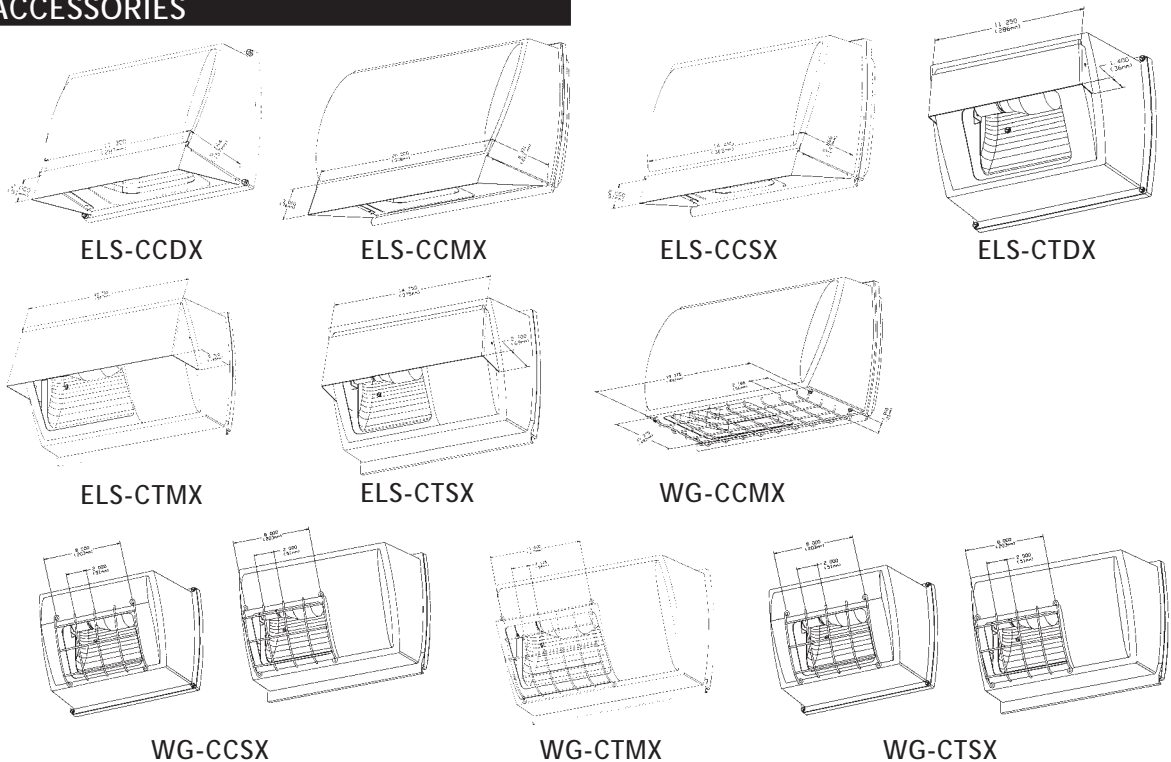
INDEX	PRODUCT						
ORDERING NUMBER	Criterion Wallpack	Versaflood II	Wallighter 400	Wallighter 175 and 250 Cutoff	Wallmount 400	Wallmount 175	SBW
SHORTING CAP							
SCCL-PECTL		////////	////////				
TOP AND SIDE VISOR							
TSVDB-V2F		////////					
TSVDB-WM7						////////	
TOP VISOR							
TVDB-V2F		////////					
TVAL-W40L			////////				
TVDB-W40L			////////				
TVGR-W40L			////////				
VANDAL RESISTANT BAND							
VRB-OWL							
WIRE GUARD							
WG-P4F		8					
WG-V2FWP		9					
WG-W40L			////////				
WG-WMTS					////////		
WG-WM7						////////	

NOTE: 8 = Flat Glass Only. See Floodlight Accessories; 9 = Prismatic Refractor Only; 10 = Wallighter 175 only.

CRITERION ACCESSORIES

- ELS-CCDX
- ELS-CCSX
- ELS-CTDX
- ELS-CTMX
- ELS-CTSX

- WG-CCMX
- WG-CCSX
- WG-CTMX
- WG-CTSX



GE Lighting Systems, Inc.
www.gelighting.com

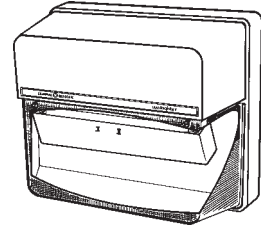
AREA WALLIGHTER ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

A

INTERNAL GLARE CONTROL SHIELD

- IGS-WL175

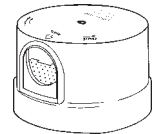
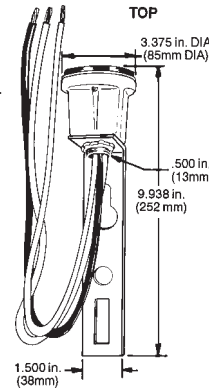


IGS-WL175

MOUNTING BRACKET (For PE)

- MB-PECTL
With locking-type receptacle for use with photoelectric control
(Remove bracket to use with conduit.)

MB-PECTL



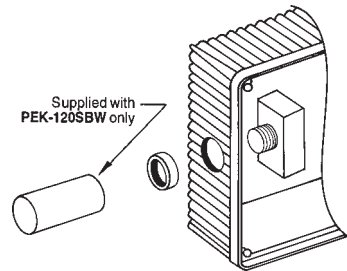
PEC

PHOTOELECTRIC CONTROL

- PEC0TL
120, 208, 240, 277, Multivolt—Turn and Lock
- PEC1TL
120 volt—Turn and Lock
- PEC5TL
480 volt—Turn and Lock

PHOTOELECTRIC CONTROL KIT

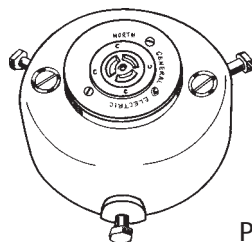
- PEK-120
120 volt—for field installation
- PEK-120SBW
120 volt—for field installation
- PEK-240
208 volt, 240 volt—for field installation
- PEK-277
277 volt—for field installation
- PEK-347
347 volt—for field installation



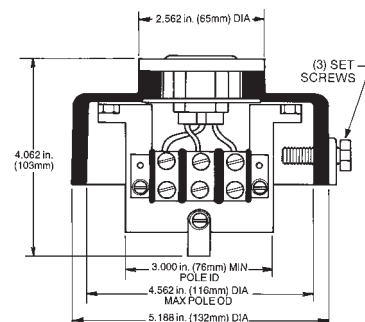
PEK

POLE TOP ADAPTER (For PE Receptacle)

- PTA-PECTL



PTA-PECTL

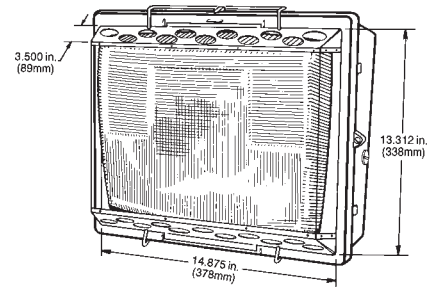


AREA WALLIGHTER ACCESSORIES

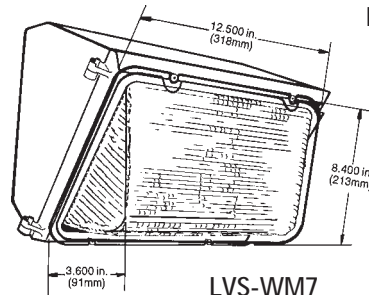
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

POLYCARBONATE VANDAL SHIELD

- LVS-V2FWP Prismatic
- LVS-P4F Flat Stipple V2FW
- LVS-W40L001
General Duty
Cannot use with Top Visor (TVAL-W40L, TVDB-W40L, TVGR-W40L)
- LVS-W40L002
Heavy Duty
Cannot use with Top Visor (TVAL-W40L, TVDB-W40L, TVGR-W40L)
- LVS-WMTS
- LVS-WM7
May be used with Top and Side visor (TSVDB-WM7) or Wire Guard (WG-WM7)



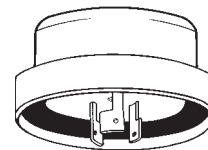
LVS-W40L001
LVS-W40L002



LVS-WM7

SHORTING CAP (With standard three-prong plug)

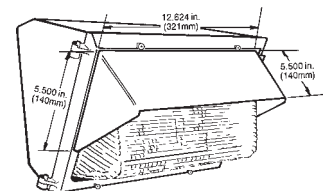
- SCCL-PECTL



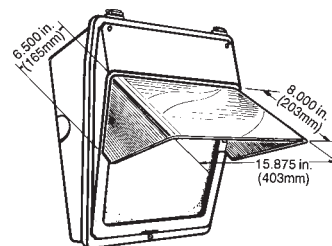
SCCL-PECTL

TOP AND SIDE VISOR

- TSVDB-V2F
Dark Bronze for Flat Glass
- TSVDB-WM7
Aluminum painted Dark Bronze. May be used with wire guard (WG-WM7) or polycarbonate vandal shield (LVS-WM7).



TSVDB-WM7



TSVDB-V2F

AREA WALLIGHTER ACCESSORIES

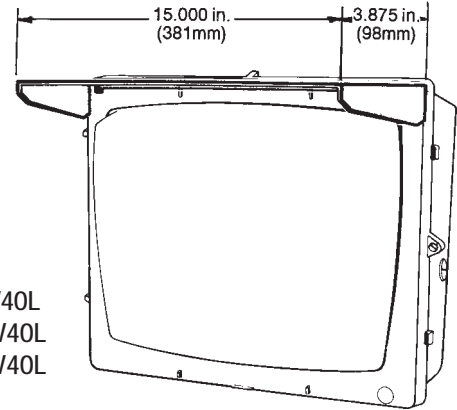
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

A

TOP VISOR

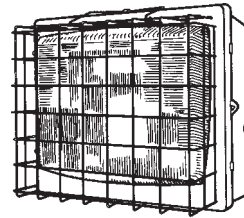
- TVDB-V2F
Dark Bronze for square refractor
- TVDB-W40L
Dark Bronze
- TVAL-W40L
Aluminum
- TVGR-W40L
Gray

TVAL-W40L
TVDB-W40L
TVGR-W40L

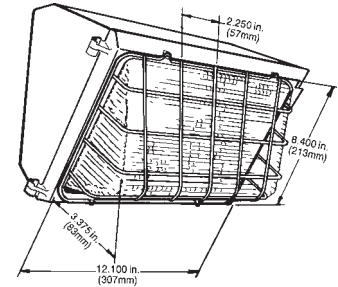


WIRE GUARD

- WG-P4F
Use with optical choice "S", flat glass only
- WG-V2FWP
Use with optical choice "P", prismatic square refractor only
- WG-W40L
- WG-WMNT
- WG-WM7
Stainless steel. May be used with Top and Side Visor (TSVDB-WM7)
Can be used with polycarbonate vandal shield (LVS-WM7)



WG-W40L



WG-WM7

AREA WALLIGHTER DATA

EXPLANATION OF OPTIONS

A = LIGHTNING ARRESTER, GROUNDING TYPE

A lightning arrester directs lightning to ground.

B = TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

Most luminaires can be provided with automatically switched quartz/instant on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same reflector with the metal halide, mercury or HPS lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output. Caution should be used when sizing branch circuits for luminaires with this option since the luminaires will draw additional current during the warm up period while both lamps (quartz and HID) are in operation. Wiring for the quartz lamp is internal to the ballast assembly and, therefore, the 120 volts to operate the quartz lamp is independent of the lighting system voltage. The 400 and 1000 watt luminaires have a socket for one 250 watt single-ended DC (Double Contact) bayonet base quartz lamp. The 250 watt and lower wattage luminaires have a socket for one 150 watt single-ended DC bayonet base quartz lamp. The lamp is not included.

C = CHARCOAL FILTER

Charcoal filter helps keep optical assembly clean - cannot be used with Forward Throw (FWT) or Vertical Type V (VTV) opticals.

F = FUSING (not available with multivolt or dual voltage.)

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V or two fuses for 208V, 240V, 480V.

J = LINE SURGE PROTECTOR, EXPULSION TYPE

An expulsion device protects against transient surges caused by lightning or distribution system switching.

L = LATCH ON DOOR OR LATCH ON CANOPY (when latch is not standard)

On luminaires where this is an option, standard doors or canopies are fastened with screws. With this option, latches are used instead, allowing no-tool access.

N = VIBRATION RESISTANT

With this option, products are suitable for high vibration applications, such as bridges and overpasses. They have been tested to 3g vibration.

P = PREWIRED WITH 6 FT. (2 METERS) #14/3

Luminaire is equipped with 6 feet (2 meters) of prewired #14/3 cord.

Q = NON-TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

This option is similar to option "B" except the quartz lamp extinguishes once the HID lamp strikes. During a cold start of the HID lamp, the quartz lamp will not come on. This option does not draw any additional current in the circuit.

R = NO MOUNTING ARM

The luminaire is normally supplied with a mounting arm but can be ordered without one.

T = TERMINAL BOARD (when terminal board is not standard)

All internal wiring in the luminaire is completed. Internal and external electrical connectors are made on a screw terminal board.

U = ULLISTED and ULLISTED TO CANADIAN NATIONAL STANDARDS AND CODES

Equipment has passed tests by Underwriters' Laboratories and is UL 1572 Listed Suitable for Wet Locations. This option applies only to luminaires with polycarbonate refractors.

048 = EXTERNAL SLIPFITTER

External slipfitter for 2 inch (51mm) diameter pipe mounting.

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages - 120, 208, 240 or 277.

PE CONTROL

A photoelectric (PE) control allows automatic dusk-to-dawn operation of luminaires. With most luminaires, the "PE" choice includes a receptacle only; the PE itself must be ordered separately. See product and accessory pages.

ROADWAY LIGHT DISTRIBUTION PATTERNS

There are three IES (Illuminating Engineering Society) classifications used to describe the light distribution or beam pattern of a roadway luminaire or one with roadway optics.

1. **S** (Short), **M** (Medium), or **L** (Long) indicates how far up and down a street a luminaire directs light.
2. **C** (Cutoff), **S** (Semi-cutoff), or **N** (Non-cutoff) tells how much light a luminaire directs above 80° and 90° vertical. A cutoff luminaire directs almost no light above

90°; a semi-cutoff, some light; and a non-cutoff has no restrictions on how much light might be emitted in any direction.

3. Type designations **I**, **II**, **III**, **IV** are for asymmetrical (non-circular) light distribution patterns and indicate how far a luminaire directs light across the width of the street; the higher the number, the further light is directed across the street. An IES Type **V** designation signifies that light is emitted in a circular (symmetrical) pattern.

FORWARD THROW (FWT) DISTRIBUTION TYPE

Forward throw is a special cutoff roadway distribution similar to Type IV that projects more light transversely than longitudinally. Thus, the distribution is similar to that of a floodlight.

MOUNTING HEIGHT

Mounting height is generally the distance from the luminaire to the ground. For pole mounted luminaires, this may not correspond to pole height, depending on whether the luminaire is mounted directly on top of the pole, or on a yoke.

A

AREA LIGHTING

Flood Lighting

[BACK TO MAIN INDEX](#)

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Ultra★Sport™	F-2
Powr-Spot® ULC®	F-4
Powr-Spot® with Glare Reduction	F-6
Powr-Spot®	F-8
SportStar™ Mobile Sportslighting System	F-10
Criterion™ Floodlighting	F-12
PF-1000 Powerflood®	F-14
Glarefighter™ Asymmetric	F-16
HLU/VLU Powerflood®	F-18
PF-400® Powerflood®	F-20
Decaflood™ 400® Powerflood®	F-22
PF-154™ Powerflood®	F-24
P-154 Powerflood®*	F-26
MPF Powerflood®	F-28
Quartz-Flood	F-29
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Accessories	F-32
Component Ordering Logic	F-46
Data	F-47
Replacer Ignitor Kit	R-44
Replacer Ballast Kits	R-45

* For hazardous location ordering numbers, see Hazardous Location Lighting Section, Page H-36 (P-154).

FLOOD LIGHTING

F

LOOK FOR THIS TAB ON ANY PAGE TO RETURN TO THE FLOOD LIGHTING INDEX



imagination at work

FLOODLIGHT LUMINAIRES INDEX

	PRODUCT NAME	PRODUCT ID.	PAGE
	Ultra★Sport™	ULTE, ULTI, ULTK ULTO, ULTR, ULTS, ULTT	F-2
	Powr•Spot® ULC®	ULGC	F-4
	Powr•Spot® with Glare Reduction	PSGN, PSGV	F-6
	Powr•Spot®	PSFA	F-8
	SportStar™ Mobile Sportsighting Service System	MSSP	F-10
	Criterion™ Floodlighting	CFSX, CFMX, CFLX, CFSC, CFMC, CFLC	F-12
	PF-1000 Powerflood®	PF1K	F-14
	Glarefighter™ Asymmetric	GFPS	F-16
	HLU/VLU Powerflood®	HLUF, VLUF	F-18
	PF-400® Powerflood®	PF4S, PF4T	F-20
	Decaflood™ 400® Powerflood®	DFT, DFS	F-22
	PF-154™ Powerflood®	PF1S, PF1T	F-24
	P-154 Powerflood®*	P54S	F-26
	MPF Powerflood®	MPF	F-28
	Quartz-Flood	QF1500, QF30, QF50	F-29
	SBF Powerflood®	SBF, SBN	F-30
	Accessories		F-32
	Component Ordering Logic		F-46
	Data		F-47
	Replacer Ignitor Kit		R-44
	Replacer Ballast Kits	GERB	R-45

*For hazardous location ordering numbers, see Hazardous Location Lighting Section, Page H-36 (P-154).



ULTRA★SPORT™ FLOODLIGHT

APPLICATIONS

- IESNA Class III to major stadiums where premium quality lighting and excellent glare control are required.
- Large stadiums and indoor arenas where color TV (CTV) recording and broadcasting will be common, and excellent color and vertical illumination are required.
- Sports fields and arenas where optional instant hot restart is desired.

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Wet Locations
- High reflectance coated glass primary reflector, ALGLAS® finish on 20-inch (508mm) diameter aluminum front secondary reflector
- Optional internal glare/spill light control arc cutoff skirts
- Rear re-lamping door with corrosion-resistant fasteners and lamp power disconnect
- Broken Glass Shutdown Circuit
- Optional Instant Hot Restart
- Compact die-cast aluminum integral ballast housing with thermally isolated optical
- Utilizes advanced 2000, 1500 and 1000 watt double-ended metal halide lamps
- Hydro★Gard™ advanced filtering system
- Remote ballast system available—contact factory
- Magnapack packaging available

F

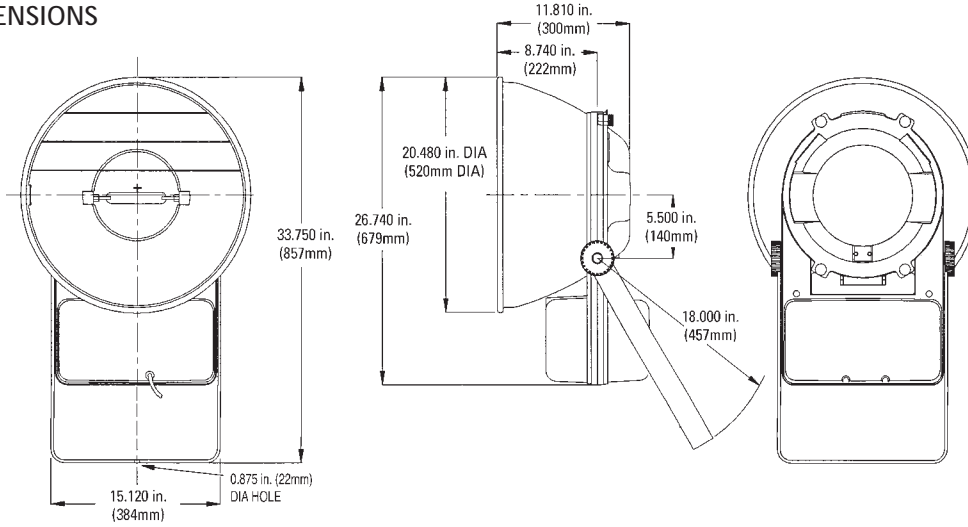
ULTRA★SPORT FLOODLIGHTING

ORDERING NUMBER LOGIC

ULTS	O2	M	5	A	MO2	P
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	OPTIONS
XXXX	XX	X	X	X	XXX	XXX
ULTS = Ultra★Sport (See Note #1) ULTK = Ultra★Sport with Instant Hot Restart (See Note #1, 4, 5) ULTI = Ultra★Sport Indoor Remote Ballast (See Note #2) ULTR = Ultra★Sport Indoor Remote Ballast with Instant Hot Restart Max. Ambient 40°C 1500W (See Note #2, 4, 5) ULTO = Ultra★Sport Outdoor Remote Ballast (See Note #1) ULTT = Ultra★Sport Outdoor Remote Ballast with Instant Hot Restart (See Note #1, 2, 4, 5) ULTE = Ultra★Sport with Integral Encapsulated Ballast. (See Note #3) NOTE: Hot Restart option available in 1500 watt and 2000 watt only. 2000 watt Remote Ballast version is non-UL. NOTE: 1. Outdoor Use only 2. Max 55°C ambient 3. Contact factory 4. Must have "P" option. 5. Multivolt not offered.	51 = 1500 02 = 2000	M = MH NOTE: Lamp orientation is horizontal ±4 degrees Standard: Lamp installed in socket.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 R = 230 Y = 240	See Ballast and Photometric Selection Table A = Autoreg B = System 2™ Bi-Level Controls Autoreg (see Technical Section) NOTE: Not available with ULTK, ULTR, or ULTT (Hot Restart) K = Hot Restart for ULTE	SO1 = Stadium Oval <i>without</i> Internal Glare Control (NEMA 4X2) SO2 = Stadium Oval <i>with</i> Internal Glare Control (NEMA 4X2) MO1 = Medium Oval <i>without</i> Internal Glare Control (NEMA 4X2) MO2 = Medium Oval <i>with</i> Internal Glare Control (NEMA 4X2) WO1 = Wide Oval <i>without</i> Internal Glare Control (NEMA 5X3) WO2 = Wide Oval <i>with</i> Internal Glare Control (NEMA 5X3) WW1 = Extra wide oval <i>without</i> Internal Glare Control (NEMA 5X4) WW2 = Extra wide oval <i>with</i> Internal Glare Control (NEMA 5X4)	F = Fusing (Not available with multivolt nor with Instant Hot Restart) P = Pre-wired with 6-ft (2M) #14/3

ULTRA★SPORT™ FLOODLIGHT

DIMENSIONS



DATA

Approximate Net Weight	lbs	kgs
ULTS	75	34
ULTK, ULTE	80	36.3
Effective Projected Area	3.1 sq ft max	.29 sq M max
ULTO, ULTI	55	25
ULTT, ULTR	60	27.2

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type All Voltages	Socket Position	Photometric Curve Number 35-xxxxxx (Actual Beam Angle in Degrees)							
				S01	S02	M01	M02	W01	W02	WW1	WW2
1500	MH	A,B**	Fixed	452810	452811	452812	452813	452814	452815	452816	452817
2000*	MH	A,B**	Fixed	179085(61x21)	179086(65x22)	179087(64x24)	179088(70x24)	179089(81x38)	179090(81x37)	179412(73x53)	179413(74x54)

NOTE: † Not available in 220 volt or in Hot Restart versions.

*Not available in multivolt or single 120 volt.

**Bi-Level not available with Instant Hot Restart

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

POWR•SPOT® ULC®

APPLICATIONS

- Recreational and competition sports fields at all levels.
- General floodlighting where long setbacks or high mountings require maximum optical performance.
- Especially suitable at sites requiring glare reduction and light trespass limitation.

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Wet Locations
- Die-cast aluminum ballast housing with acrylic electrocoat gray paint finish inside and out
- Enclosed, gasketed, filtered optical with configured, ALGLAS® finish on 20-inch (508mm) diameter aluminum reflector and tempered glass closure
- Thermal separation of ballast from socket and lamp
- Removable cover for access to ballast and wiring compartment
- No-weep-hole condensate drain when aimed down
- Built-in cable and strain relief bushing
- Heavy gauge steel trunnion with aiming reset stop
- Corrosion-resistant hardware
- Remote ballasted system available – contact factory
- Mogul base socket – E39 standard

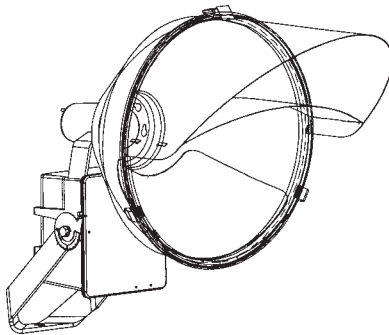


POWR•SPOT FLOODLIGHTING

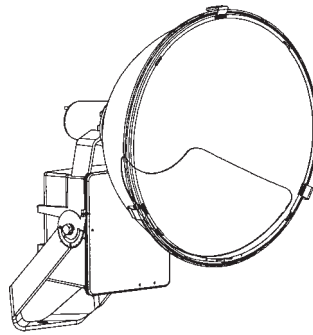
F

ORDERING NUMBER LOGIC

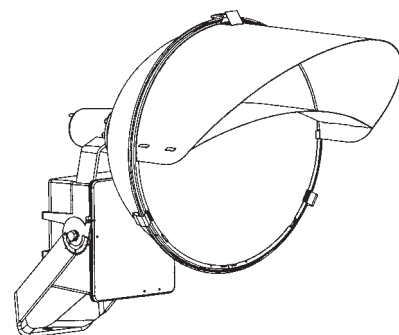
ULGC	51	M	0	A	2	CO	HDO	P
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	TRUNNION TYPE	REFLECTOR IDENT	OPTICAL REFLECTOR	OPTIONS
XXXX	XX	X	X	X	X	XX	XXX	XXX
ULGC = Powr•Spot III Floodlight with 20-in. (508mm) diameter Reflector with Internal Light Diverter and External ULC Visor Mounted on Door	40= 400 75= 750 01= 1000 51= 1500	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220	A = Autoreg	1 = Straight 2 = Angled 3 = Long (for SportsStar) 4 = Straight w/CAA-001	Select ID. from Photometric Selection Table. B0 C0 D0 E0	See Dimensions HDO = Heavy Duty 20-in. (508mm) Diameter GPO = General Purpose 20-in. (508mm) Diameter	F = Fusing (Not available with multivolt) P = Pre-wired with 6-ft (2M) #14/3
ULGN = Powr•Spot III Floodlight with 20-in. (508mm) diameter Reflector with Internal Light Diverter only			50Hz 6 = 220 Y = 240					
ULGV = Powr•Spot III Floodlight with 20-in. (508mm) diameter Reflector with Standard Reflector and ULC Top Visor Mounted on Door								



ULGC



ULGN

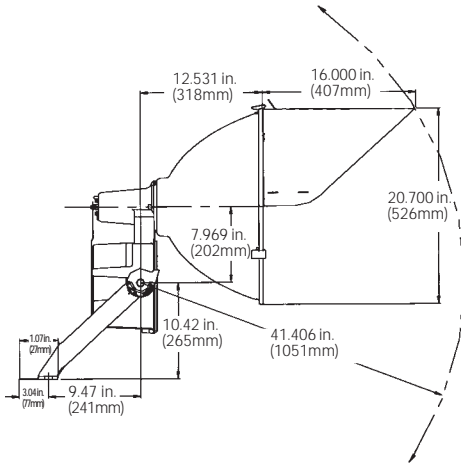


ULGV

POWR•SPOT® ULC®

DIMENSIONS

DOTTED LINE—HEAVY DUTY OPTICAL
SOLID LINE—GENERAL PURPOSE OPTICAL



DATA

Approximate Net Weight	55-65 lbs	25-29 kgs
Effective Projected Area		
ULGN	2.7* sq ft max	.24* sq M max
ULGV, ULGC	3.25 sq ft max	___ sq M max
*When aimed 30° down		

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Product ID	Wattage	Light Source	Ballast Type All Voltages*	Designate 20-inch (508mm) Reflector by Reflector ID.			
				Photometric curve number 35-xxxxxx and actual Beam Angle in degrees			
				B0 = 3X3	C0 = 4X4	D0 = 5X5	E0 = 6X6
ULGC	1000	MH	A	452798(39X32)	452797(53X41)	452796(74X70)	452795(108X91)
	1500	MH	A	452765(41X38)	452763(41X33)	452764(65X55)	452762(87X88)
ULGN	1000	MH	A	452799(40X32)	452800(54X43)	452801(71X68)	452802(106X109)
	1500	MH	A	452769(42X34)	452768(54X43)	452767(65X60)	452766(104X103)
ULGV	1000	MH	A	452806(38X36)	452805(54X49)	452804(85X76)	452803(107X93)
	1500	MH	A	452773(41X40)	452772(52X46)	452771(63X58)	452770(86X88)

NOTE: N/A = Not Available
*347 volts not available in multivolt.

NOTES: For indoor indirect lighting applications with 1000 watt or greater, GELS recommends replacing tempered front glass lens with wire guard accessory WG-PSFO.

For facade or applications with aiming fixture above horizontal, contact factory.

NOTE: Contact factory for other lamps and wattages.

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-46 for Component Ordering Logic.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.



POWR•SPOT® FLOODLIGHT with Glare Reduction

APPLICATIONS

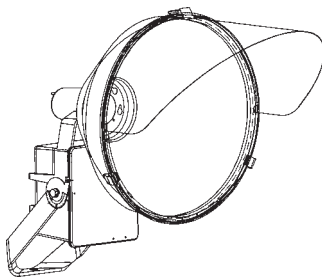
- Recreational and competition sports fields at all levels.
- General floodlighting where long setbacks or high mountings require maximum optical performance.
- Especially suitable at sites requiring glare reduction and light trespass limitation.

SPECIFICATION FEATURES

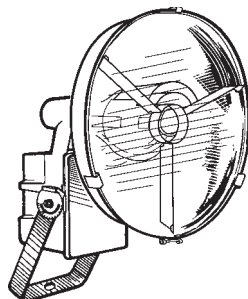
- / 1598 Listed
Suitable For Wet Locations
- Die-cast aluminum ballast housing with acrylic electrocoat gray paint finish inside and out
- Enclosed, gasketed, filtered optical with configured, ALGLAS® finish on 20-inch (508mm) diameter aluminum reflector and tempered glass closure
- Thermal separation of ballast from socket and lamp
- Removable cover for access to ballast and wiring compartment
- No-weep-hole condensate drain when aimed down
- Built-in cable and strain relief bushing
- Heavy gauge steel trunnion with aiming reset stop
- Corrosion-resistant hardware
- Position oriented socket available for "minimum" tilt factor lamp-contact factory
- Remote ballasted system available – contact factory
- Mogul base socket – E39 standard

ORDERING NUMBER LOGIC

PSGN	51	M	0	A	2	CO	HDO	P
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	TRUNNION TYPE	REFLECTOR IDENT	OPTICAL REFLECTOR	OPTIONS
XXXX	XX	X	X	X	X	XX	XXX	XXX
PSGN = Powr•Spot III Floodlight with 20-in. (508mm) diameter Reflector and with Internal Glare Reduction Louvers Mounted on Door	40= 400 75= 750 01= 1000 51= 1500	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 Y = 240	See Ballast and Photometric Selection Table A = Autoreg	1 = Straight 2 = Angled 3 = Long (for SportsStar) 4 = Straight w/CAA-001	Select ID. from Ballast and Photometric Selection Table. BO CO DO EO	See Dimensions HDO = Heavy Duty 20-in. (508mm) Diameter GPO = General Purpose 20-in. (508mm) Diameter	F = Fusing (Not available with multivolt nor with Instant Hot Restart) P = Pre-wired with 6-ft (2M) #14/3
PSGV = Powr•Spot III Floodlight with 20-in. (508mm) diameter Reflector and with External Glare Reduction Visor Mounted on Door								



PSGV



PSGN

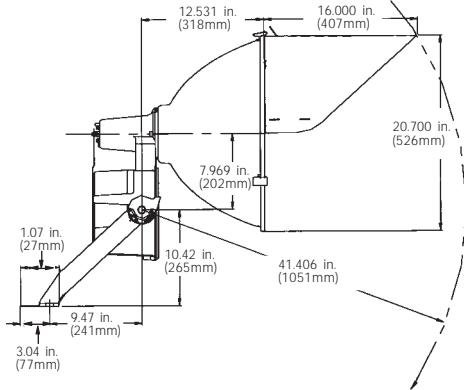
POWR•SPOT FLOODLIGHTING

F

POWR•SPOT® FLOODLIGHT with Glare Reduction

DIMENSIONS

SOLID LINE
DOTTED LINE—HEAVY DUTY OPTICAL



DATA

Approximate Net Weight	55-65 lbs	25-29 kgs
Effective Projected Area		
PSGN	2.7* sq ft max	.24* sq M max
PSGV, PSGC	3.25 sq ft max	.30 sq M max
*When aimed 30° down		

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.
All Ballast are Autoreg

Product ID	Wattage	Light Source	Designate 20-inch (508mm) Reflector by Reflector ID.				
			Photometric curve number 35-xxxxxx and Beam Angle in degrees				
			A2	B0	C0	D0	E0
PSGN	400	HPS	N/A	450593(37X30)	450401(50X39)	450575(60X49)	450560(76X64)
	750	HPS	N/A	N/A	N/A	450535(73X53)	450538(105X78)
	400	MH	N/A	450524(31X27)	450337(54X19)	450529(99X74)	N/A
	1000	MH	452775(23X22)	452788(39X36)	452787(55X50)	452790(86X67)	452789(107X91)
	1500	MH	452742(23X22)	452754(43X37)	452757(60X49)	452756(61X52)	452755(104X91)
PSGV	400	HPS	N/A	450329(37X34)	179263(52X47)	450327(61X57)	450328(81X74)
	750	HPS	N/A	N/A	N/A	450533(79X75)	450536(105X96)
	400	MH	N/A	450331(31X29)	450332(57X48)	N/A	450330(90X79)
	1000	MH	452774(23X23)	452791(40X41)	452792(55X55)	452794(84X75)	452793(111X97)
	1500	MH	452747(24X23)	452761(41X40)	452760(57X53)	452758(62X59)	452759(94X91)

NOTE: N/A = Not Available
*347 volts not available in multivolt.

NOTES: For indoor indirect lighting applications with 1000 watt or greater, GELS recommends replacing tempered front glass lens with wire guard accessory WG-PSFO.

For facade or applications with aiming fixture above horizontal, contact factory.

REFERENCES

See Page F-32 for start of Accessories.
See Pages F-46 for Component Ordering Logic.
See Pages F-47 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.



POWR•SPOT® FLOODLIGHT

APPLICATIONS

- Recreational and competition sports fields at all levels.
- General floodlighting where revolving reflectors are needed.

SPECIFICATION FEATURES

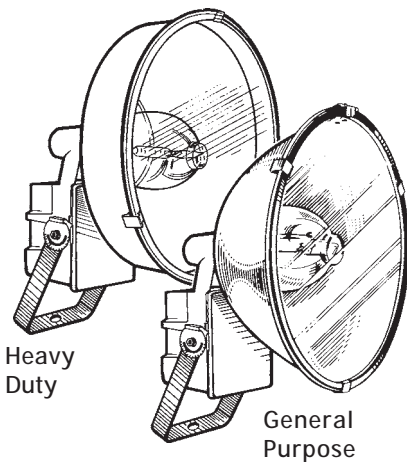
- 1598 Listed Suitable For Wet Locations
- Die-cast aluminum ballast housing with acrylic electrocoat gray paint finish inside and out
- Enclosed, gasketed, filtered optical with ALGLAS® finish on aluminum reflector and tempered glass closure
- Thermal separation of ballast from socket and lamp
- Removable cover for access to ballast and wiring compartment
- No-weep-hole condensate drain when aimed down
- Built-in cable and strain relief bushing
- Heavy gauge steel trunnion with aiming reset stop
- Mogul base socket – E39 standard with lamp stabilizer 1000 & 1500 watt
- Corrosion-resistant hardware
- Position oriented socket available for “minimum” tilt factor lamp – contact factory
- Field convertible glare reduction available. See Accessories.
- Remote ballasted system available – contact factory

POWR•SPOT FLOODLIGHTING

F

ORDERING NUMBER LOGIC

PSFA	51	M	0	A	2	3	HDO	P
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	TRUNNION TYPE	NEMA TYPE BEAM SPREAD HORIZ X VERT	OPTICAL REFLECTOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XXX
PSFA = Standard Powr•Spot Floodlight all opticals.	40= 400 75= 750 01= 1000 51= 1500	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 Y = 240	See Ballast and Photometric Selection Table A = Autoreg	1 = Straight 2 = Angled 3 = Long (for SportsStar™ (13.750”) 4 = Straight Trunnion with CAA-001	Select NEMA Type from Ballast and Photometric Selection Table. Example: 3 = 3 x 3	See Dimensions HDO = Heavy Duty 20-in. (508mm) Diameter GPO = General Purpose 20-in. (508mm) Diameter HD2 = Heavy Duty 22-in. (559mm) Diameter GP2 = General Purpose 22-in. (559mm) Diameter	F = Fusing (Not available with multivolt) P = Pre-wired with 6-ft (2M) #14/3



OPTICAL COMPONENT LOGIC

OPTICAL COMPONENT LOGIC	MH		HPS			CHOOSE A, B, C, D, E, FROM TABLE USING BEAM SPREAD AND LAMP TYPE	
	1500W 51	1000W 01	400W 40	1000W 01	400W 40		750W 75
A	2	2	1	N/A	N/A	N/A	HD2 or GP2
B	3	3	3*	N/A	3	3	GPO or HDO
C	4	4	3	N/A	4	4	
D	5	5	5	N/A	5	5	
E	6	6	6	5	6	6	

NOTE: *Not standard. Better equivalent distributions exist. N/A=Not Available

REFERENCES

- See Page F-32 for start of Accessories.
- See Pages F-46 for Component Ordering Logic.
- See Pages F-47 for Explanation of Options and Other Terms Used.
- See Pole and Bracket Section Page P-2 for pole selection.

POWR•SPOT® FLOODLIGHT

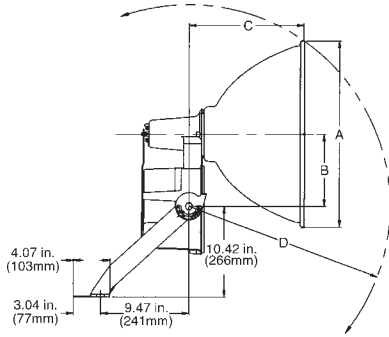
DIMENSIONS

SOLID LINE—HEAVY DUTY OPTICAL
 DOTTED LINE—GENERAL PURPOSE OPTICAL

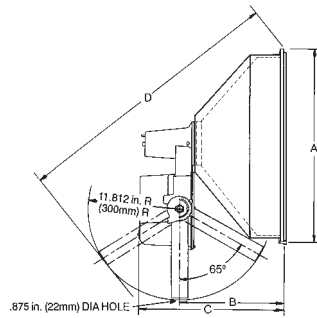
Optical	A DIA	B	C	D
22-in.	23.000	7.969	12.625	23.050
559mm	584	203	321	586
20-in.	20.700	7.969	12.531	22.250
508mm	526	203	318	555

Optical	A DIA	B	C	D
22-in.	23.000	12.438	17.875	34.312
559mm	584	316	454	872
20-in.	20.700	12.575	18.000	31.312
508mm	526	319	457	795

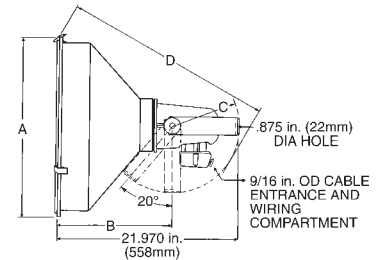
Optical	A DIA	B	C Radius	D Min.
22-in.	23.000	13.000	9.000	26.500
559mm	584	330	229	673
20-in.	21.000	13.000	9.000	26.000
508mm	533	330	229	660



Angled Trunnion



Straight Trunnion



Remote Socket Holder
 Order Reflector Separate

DATA

Approximate Net Weight	55-65 lbs	25-29 kgs
Effective Projected Area	2.7* sq ft max	.24* sq M max
	3.0 sq ft max	.28 sq M max

*When aimed 30°/22-in. down

OPTICAL/LAMP HOLDER

Does not include reflector

Wattage	Light Source	Ordering Number	Maximum Separation Optical and Ballast
400	HPS	PSFC40S	10 ft (3 M)
750	HPS	PSFC75S	10 ft (3 M)
400	MH	PSFC40M	NOTE*
1000/1500	MH	PSFC95M	NOTE*

NOTE: *No limitation except voltage drop in the cable must not exceed five volts.
 See "Components By Example" on page F-46 for Reflector/Optical Ordering Logic.

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type All Voltages***	Reflectors Listed by Diameter, Photometric Curve Number 35-XXXXXX, and Actual Beam Angle in degrees					
			NEMA Type Beam Spread (Horizontal X Vertical)					
			22-in. (559mm) Diameter			20-in. (508mm) Diameter		
			1 = 1X1	2 = 2X2	3 = 3X3	4 = 4X4	5 = 5X5	6 = 6X6
400	HPS	A	175663(12X12)	175664(20X20)	177613(38X34)	179262(51X47)	177463(61X57)	N/A
750	HPS	A**H	N/A	179186	N/A	178177(67X64)	178178(77X76)	178179(110X107)
400	MH	A	179871(13X12)	175952(27X27)	177468(33X29)	179677(60X48)	177466(84X84)	N/A
1000	MH	A	N/A	452777(23X23)*	452778(40X42)	452779(55X57)	452782(85X79)	452781(109X111)
1500***	MH	A	N/A	452746(23X22)*	452739(44X44)	452740(60X59)	452741(70X68)	452744(107X107)

NOTE: N/A = Not Available

NOTE: *Premium high performance 22-in. (559mm) NEMA Type 2 optical available – contact factory for photometric data.

**Multivolt not available

***347 volts not available in multivolt.

NOTES: For facade and indirect lighting applications with 1500 watt or greater, GELS recommends adding wire guard accessory WG-PSFO or WG-PSFHD2.

For facade or applications with aiming fixture above horizontal, contact factory.

GE Lighting Systems, Inc.

www.gelighting.com



SPORTSTAR™ MOBIL SPORTSLIGHTING SYSTEM

APPLICATIONS

- See product pages for details and specifications.

SPECIFICATION FEATURES

- Sectioned, telescoping tapered steel shaft
- Prime painted, galvanized, weathering steel, or concrete poles
- Shaft lengths from 40 to 150 feet
- Service hoist mounting of up to 27 floodlights

SERVICE PLATFORM

Each service platform consists of:

- mounting arms
- pre-wired ring
- headframe
- cover
- hoist cables
- platform can accept up to 27 GE Powr•Spot® floodlights.

SUGGESTED FIXTURES



ULTRA★SPORT™
Page F-2



PSGC
Glare Reduction
Page F-6



PSFA
Page F-8



PF1K
Page F-14

ORDERING NUMBER LOGIC

MSSP	TL	ID	100	G	080	10	H	5	A	-X-X-X
PRODUCT IDENT	LATCHING	DRIVE MOTOR	POLE HEIGHT (FT)	POLE FINISH	WIND CRITERIA*	FIXTURES PER POLE†	TYPE OF FIXTURE	FIXTURE VOLTAGE††	POLE BASE POWER WIRING††	OPTIONS
XXXX	XX	XX	XXX	X	X	XX	X	X	X	-X-X-X
MSSP = Mobil Sportslighting Service Platform System	TL = Top Latching	MD = Mobile Drive Motor *ED = External Drive Motor *ID = Internal Drive Motor *Contact Factory	040 = 40 050 = 50 060 = 60 070 = 70 080 = 80 090 = 90 100 = 100 110 = 110 120 = 120 130 = 130 140 = 140 150 = 150	G = Galvanized P = Prime Painted W = Weathering Steel C = Concrete X = Supplied By Others	070 = 70 080 = 80 090 = 90 100 = 110 = 110	02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10 11=11 12=12 13=13 14=14 15=15 16=16 17=17 18=18 19=19 20=20 21=21	F=Flood X=Other	5 = 480	See Electrical Systems Table	See Options Table

NOTES:

* Complies with specifications published in 1985 edition "Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals" published by the American Association of the State Highways and Transportation Officials (AASHTO).

**Logic only. For additional details regarding the lowering device contact: Carolina High Mast Systems, P.O. Box 14069, Haltom City, TX 76117, VOICE: (682) 286-0046, FAX: (682) 286-0086

†Contact factory for more than 21 fixtures per pole.

††Contact factory if voltage is other than 480V.

SPORTSTAR™ MOBIL SPORTSLIGHTING SYSTEM

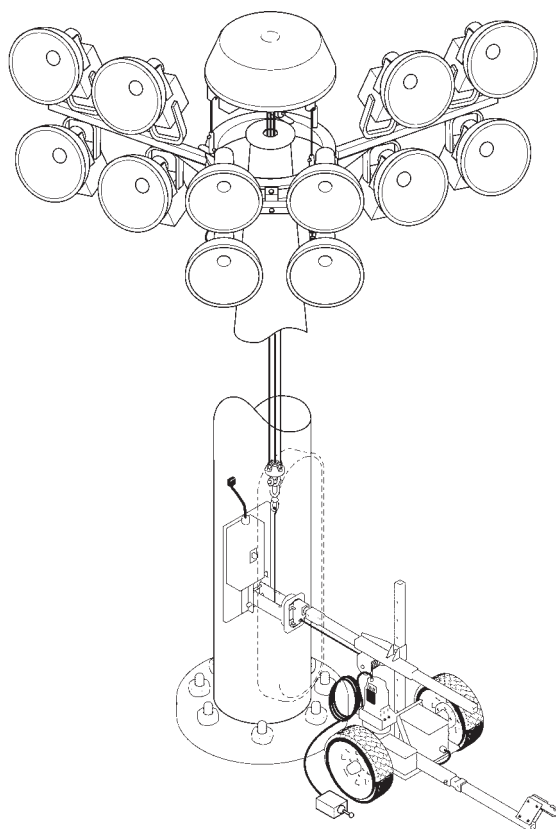
ELECTRICAL SYSTEMS AVAILABLE

Two and three circuit systems are available.

POLE BASE	VOLTAGE	PHASING	CONDUCTORS Including Ground Conductor
L	480	Three	4 Wire-60Hz
NOTE: Consult factory for other than 480 volt 3 phase.			
A	120	Single	3 Wire-60Hz
B	120/240	Three	5 Wire-60Hz
C	208	Single	3 Wire-60Hz
D	208	Three	4 Wire-60Hz
E	240	Single	3 Wire-60Hz
F	120/240	Single	4 Wire-60Hz
G	240/480	Single	4 Wire-60Hz
H	277	Single	3 Wire-60Hz
J	277/480	Three	5 Wire-60Hz
K	480	Single	3 Wire-60Hz
M	220	Single	3 Wire-60Hz
N	347	Single	3 Wire-60Hz
P	347/600	Three	5 Wire-60Hz
R	220	Single	3 Wire-50Hz
S	240	Single	3 Wire-50Hz
T	240/415	Three	5 Wire-50Hz
W	220/380	Three	5 Wire-50Hz
X	Other Special		

OPTIONS TABLE

CODE	DESCRIPTION
HC4	4=1/4-inch Stainless Steel
WCS4	Winch Cable S4=1/4-inch Stainless Steel
WCS5	S5=5/16-inch Stainless Steel
HSS	Hoist Sheaves S=Stainless Steel
WS	Winch Support Drum
CG	Cable Guard
PEX	PE Control
MCX	Multi-Circuit X (X=Specific # of Circuits)
LA	Lightning Arrestor on Service Platform
LR	Lightning Rod
FAA-120	Single Aircraft Warning Light
FAA2-120	Double Aircraft Warning Light
FAA2TR-120	Double Aircraft Warning Light with Transfer Relay



SPORTSTAR FLOODLIGHTING

F

SERVICE HOIST MODELS

Three separate High Mast service platform models:

DESCRIPTION	MODEL NO.
Latching, Mobile Drive Unit	C529GXXX
Latching, External Drive Unit	C522GXXX*
Latching, Internal Motor	C528GXXX

NOTE: *Requires portable drive unit C408GXXX



CRITERION™ FLOODLIGHT

Featuring SnapDrive™

APPLICATIONS

- General purpose to façade lighting, spotlighting to parking lot lighting

SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- UL listed and CUL listed to Canadian Standards
- Die-cast aluminum housing for strength, beauty and low maintenance
- Scaled family styling look for consistent site enhancing look
- Concealed continuous gasket seals against harmful dust, dirt, moisture and insects
- Tool-less entry for easy, economical maintenance
- Tamper-resistant option helps prevent unauthorized entry for security and safety
- Activated charcoal breathe-way for clean ventilation and long term maintained foot candle levels
- Pre-drilled integral mounting surfaces for quick installation of accessories
- Low-profile hinges & latches for a clean look
- Choice of a palette of standard colors, 188 RAL colors, or your own custom color in fade- and abrasion-resistant powder and liquid paints
- Slipfitter with integrally sealed wiring box conceals and protects wiring, saves maintenance costs and maintains a clean look optics
- Reflector section optimized for typical applications—facilitates luminaire-to-application matching
- Asymmetrical reflectors are computer optimized for MH lamps to maximize efficiency
- Rugged hydro-formed reflector for consistent performance
- ALGLAS® coating seals reflectors from contaminants for superior long term performance
- 100w to 1000w MH, PMH and HPS lamp operation (Consult ballast selection table for availability)
- Asymmetric hydroformed reflectors for vertical and horizontal surfaces
- Nema-type light distributions for general purpose flood lighting
- Designed for compact lamps minimizing EPA and pole costs
- Single & dual fusing
- Optional EZAdd button PE
- Optional Bilevel switching (250/400)
- Matched cross arm mounting Structures available
- Full Line of visors and shields available

CRITERION FLOODLIGHTING

F

ORDERING NUMBER LOGIC

CFXX	40	M	0	A	2	W	WHITE	K	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE CONTROL	PHOTOMETRIC DISTRIBUTION	COLOR	MOUNTING	OPTIONS
XXXX	XX	X	X	X	X	X	XXXX	X	X
CFSX = Small Flood	10 = 100 (S) 15 = 150 (S) (55V)	S = HPS M = MH P = pulse start MH	60Hz 0 = 120/208/240/ 277* MULTIVOLT	See Ballast Selection Table	1 = No PE 2 = With PE Receptacle 3 = Button PE*	W = Wide Flood V = Vertical Surface Flood M = Medium Flood N = Narrow Flood 4 = Spot 3 = Narrow Spot	Standard Colors DKBZ = Dark Bronze BLCK = Black WHITE = White	K = 2.38 in. Slipfitter V = Wall Mount S = 3.00 in. Slipfitter	B = Time Delay Automatically Switched Quartz** F = Fusing* XXX = Special Options 004 = Tamper-Resistant Hardware
CFMX = Medium Flood	17 = 175 (S) 25 = 250 (M) 32 = 320 (M)	Lamp included	1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 P = 120X277X347**	A = Autoreg D = BiLevel III H = HPF-LAG	* Not Available in Multivolt		Special Colors Insert four digit color code from RAL Color Chart		
CFLX = Large Flood	40 = 400 (M) 01 = 1000 (L)								
CFSC = Small Flood for Canada									
CFMC = Medium Flood for Canada	S = Small M = Medium L = Large								
CFLC = Large Flood for Canada									

PHOTOMETRIC SELECTION TABLE

Housing Type	Wattage	Lamp*	Wide Flood	Vertical Surface Flood	Medium Flood	Narrow Flood	Spot	Narrow Spot
Small			7x6*	6x5*	7x6	6x5	3x3	3x2
CFSX, CFSC	100	HPS	451792	451793	451791		451790	
	150	HPS	451796	451797	451795		451794	
	100	PMH	451800	451801	451799		451798	
	150	PMH	451804	451805	451803		451802	
	175	MH	451812	451813	451811		451810	
Medium			7x6*	6x5*	7x6	6x5	4x4	3x2
CFMX, CFMC	250	HPS	451816	451817	451815	451818	451814	451819
	400	HPS	451822	451823	451821	451824	451820	451825
	250	PMH	451828	451829	451827	451830	451826	451831
	400	PMH	451834	451835	451833	451836	451832	451837
	250	MH	451840	451841	451839	451842	451838	451843
	400	MH	451846	451847	451845	451848	451844	451849
Large			7x7	6x5	7x7	6x5	3x4	3x2
CFLX, CFLC	1000	MH	451852	N/A	451851	N/A	N/A	N/A

N/A = Not Available

*Distribution is non-symmetric, consult IES file.

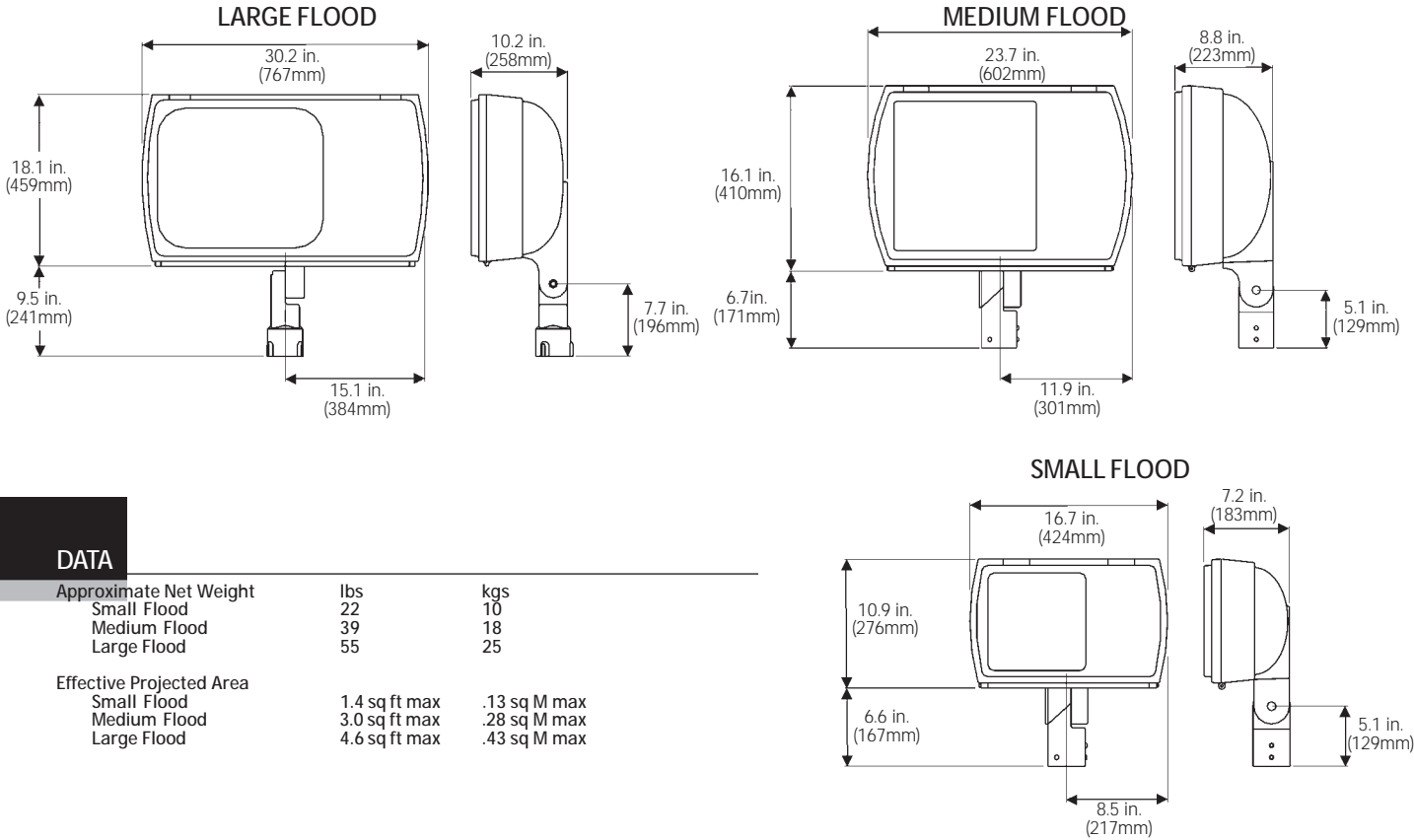
NOTE: NEMA type listed is for highest wattage metal halide lamp.

GE Lighting Systems, Inc.
www.gelightingssystem.com

CRITERION™ FLOODLIGHT

SLIPFITTER MOUNTED
(Standard)

FIXTURE DIMENSIONS



CRITERION FLOODLIGHTING

F

DATA

Approximate Net Weight	lbs	kgs
Small Flood	22	10
Medium Flood	39	18
Large Flood	55	25

Effective Projected Area		
Small Flood	1.4 sq ft max	.13 sq M max
Medium Flood	3.0 sq ft max	.28 sq M max
Large Flood	4.6 sq ft max	.43 sq M max

BALLAST SELECTION TABLE

All HID light sources are clear unless otherwise indicated.

Housing Type	Wattage	Source	Lamp Size	Multivolt	120	208	240	277	480	347	120 x 277 x 347
CFSX	100, 150	HPS	B17	H	H	H	H	H	N/A	N/A	N/A
	100, 150	PMH	BD17	H	H	H	H	H	N/A	N/A	N/A
	175	MH	BD17	A	A	A	A	A	N/A	N/A	N/A
CFMX	250, 400	HPS	ED18	A	A	A	A	A	N/A	N/A	N/A
	250, 400	PMH	ED28	A	A	A	A	A	N/A	N/A	N/A
	250, 400	MH	ED28	A	A	A	A	A	N/A	N/A	N/A
CFLX	1000	MH	BT37	A	A	A	A	A	N/A	N/A	
CFSC Canada	100, 150	HPS	B17	N/A	H	N/A	N/A	H	N/A	H	H
	100, 150	PMH	BD17	N/A	H	N/A	N/A	H	N/A	H	H
	175	MH	BD17	N/A	A	N/A	N/A	A	N/A	A	A
CFMC Canada	250, 400	HPS	ED18	N/A	A	N/A	N/A	A	N/A	A	A
	250, 400	PMH	ED	N/A	A	N/A	N/A	A	N/A	A	A
	250, 400	MH	ED28	N/A	A	N/A	N/A	A	N/A	A	A
CFLC Canada	1000	MH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

NOTE: N/A = Not Available

SUGGESTED CONFIGURATION

GENERAL AREA LIGHTING

175 watt	CFSX	17	M	O	A	1	M	DKBZ	K
400 watt	CFMX	40	M	O	A	1	M	DKBZ	K
1000 watt	CFLX	O1	M	O	A	1	M	DKBZ	K

TALL STRUCTURES AND SIGNS

175 watt	CFSX	17	M	O	A	1	V	DKBZ	K
400 watt	CFMX	40	M	O	A	1	V	DKBZ	K
1000 watt	N/A								

PARKING LOT

175 watt	CFSX	17	M	O	A	1	W	DKBZ	K
400 watt	CFMX	40	M	O	A	1	W	DKBZ	K
1000 watt	CFLX	O1	M	O	A	1	W	DKBZ	K

REFERENCES

See Page F-32 for start of Accessories.
See Pages F-46 for Component Ordering Logic.
See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

PF-1000 POWERFLOOD® FLOODLIGHT



APPLICATIONS

- Parking lots, industrial yards and sports stadiums
- Construction sites, high mast roadway interchanges, car lots and airport aprons

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Heavy-duty (NEMA) die-cast housing
- Total front access via hinged and removable door
- Enclosed, gasketed and sealed, and activated - charcoal filtered optical assembly
- Heavy-gauge galvanized steel trunnion
- Corrosion resistant hardware
- Sight track for daytime aiming
- Aiming degree indicator
- NEMA lamp/wattage decal
- Mogul base socket – E39 standard
- Internal glare shield with cutoff optic performance (HPS only) – see Accessories
- Vertical and horizontal lamp orientations
- Terminal board
- Heat & shock resistant tempered glass lens

F

PF-1000 POWERFLOOD FLOODLIGHTING

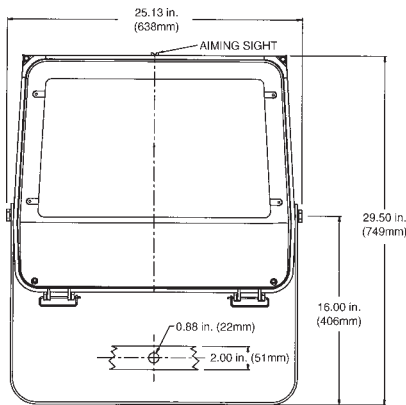
ORDERING NUMBER LOGIC

PF1K	01	S	0	A	1	6X2	DB	S
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAM SPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
PF1K = PF-1000 Powerflood Floodlight	75 = 750 01 = 1000	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120** 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 R = 230 Y = 240 *Connected for 120V **120V 1000MH A-Reg not CSA or CUL	See Ballast and Photometric Selection Table A = Autoreg	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	See Ballast and Photometric Selection Table. 6X2 = 6X2 6X3 = 6X3 6X5 = 6X5 6X6 = 6X6 6X7 = 6X7 7X7 = 7X7 7X6 = 7X6 (Vertical lamp)	DB = Dark Bronze (Standard) GR = Gray	F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type K = Knuckle slipfitter for 1.9-2.38 inch (48-60mm) OD Tenon L = Latch for door P = Prewired with 6 ft (2M) #14/3 S = Knuckle Slipfitter for 1.9-3.0 in. (48-76mm) OD Tenon V = Knuckle Wall mount

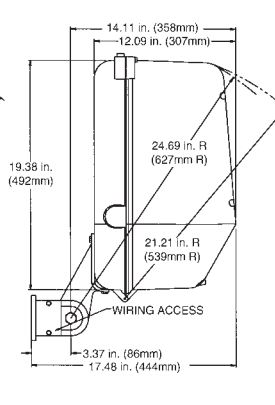
PF-1000 POWERFLOOD® FLOODLIGHT

FIXTURE DIMENSIONS

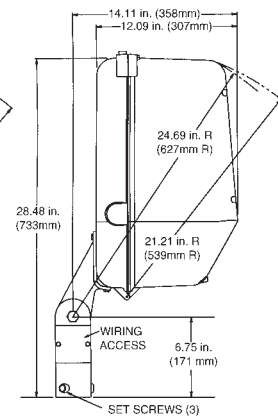
TRUNNION MOUNTED
(Standard)



KNUCKLE WALL MOUNTED
(Option V)

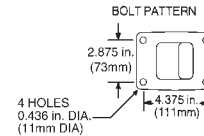


SLIPFITTER MOUNTED
(Options K and S)



DATA

Approximate Net Weight	lbs	kgs
750 watt	55-61	21-23
1000 watt	61-65	23-24
Effective Projected Area	3.0 sq ft max	.279 sq M max
Suggested Mounting Height	20-150 ft	7-50 M



BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type All Voltages†	NEMA Type Beam Spread Horiz X Vert (Degrees)	Photometric Curve Number 35-17 - - - -
750	HPS	A**	6X5 (102X78)	9537
750	HPS	A**	6X6 (127X108) vertical lamp	9867 vertical lamp
750	HPS	A**	7X7 (132X143)	8681
1000	HPS	A	6X2 (106X20)	7749
1000	HPS	A	6X3 (108X37)	7748
1000	HPS	A	6X5 (109X81)	7799
1000	HPS	A	7X6 (133X117) vertical lamp	9857 vertical lamp
1000	HPS	A	7X7 (135X145)	7746
1000	MH	A	7X7 (139X139)	9497
		A	7X6 (135X112) vertical lamp	9499 vertical lamp
		A	6X5 (121X98)	9498

**Multivolt not available.

†220V, 60Hz and all 50Hz voltages available 1000 Watt Autoreg only.

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-46 for Component Ordering Logic.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.



GLAREFIGHTER™ ASYMMETRIC FLOODLIGHT

APPLICATIONS

- Parking lots, building security, shipping yards, rail yards, and many more floodlighting applications.
- Engineered for situations requiring high performance *with low aiming angle and reduced glare optics.*

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Die-cast aluminum housing with electrocoat paint finish
- Enclosed, gasketed and activated-charcoal filtered optical assembly
- Hydroformed aluminum reflector with ALGLAS® finish
- Designed for low aiming angles and low glare applications
- Heavy duty steel trunion with degree indicator
- Built-in "Sight-Track", quick aiming sight
- Heat and shock resistant tempered glass lens
- Front access via hinged/removable door
- Corrosion-resistant external hardware
- Terminal board
- Mogul base socket – E39 standard

GLAREFIGHTER FLOODLIGHTING

F

ORDERING NUMBER LOGIC

GFPS	24	S	0	A	1	6X6	DB	K
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAM SPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
GFPS = Glarefighter Standard	15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 R = 230 Y = 240 *Connected for 120V	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Photometric Selection Table Example: 6X6 = 6X6	DB = Dark Bronze (Standard) GR = Gray	F = Fusing (Not available with multivolt or 120X347V) G = Top Trunnion J = Line Surge Protector, Expulsion Type K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48-60 mm) OD Tenon L = Latch for door P = Prewired with 6 ft (2 meters) #14/3 S = Knuckle Slipfitter for 1.9 to 3.0 in. (48-76mm) OD Tenon V = Knuckle Wall Mount Y = Dual Wattage Units Connect Higher Wattage
GFPT = With Tray Mounted Ballast NOTE: 200-400W Mag-Reg not available on tray.	25 = 250 40 = 400 NOTE: 250/400 connected for 250W (HPS only)							

PHOTOMETRIC SELECTION TABLE

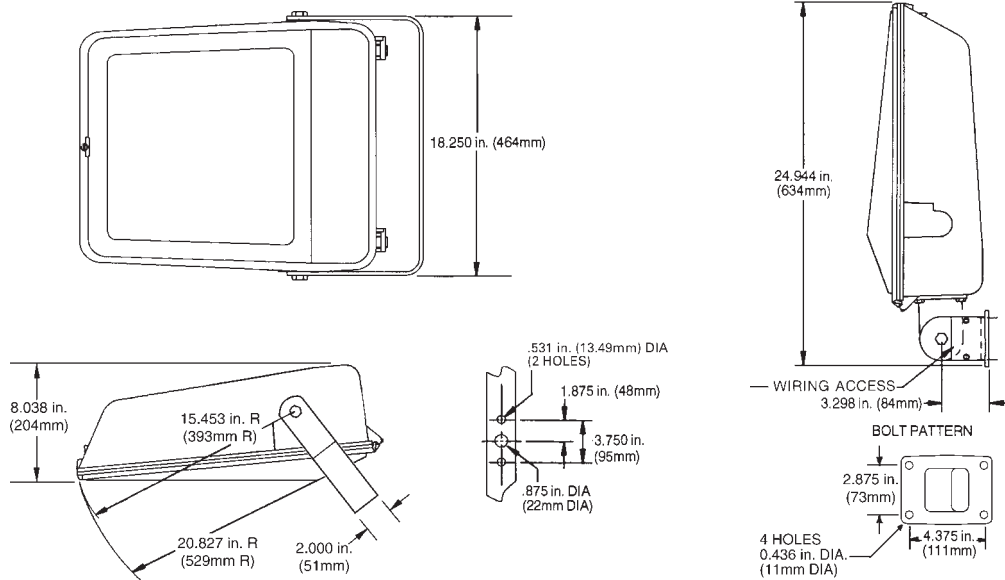
All light sources are clear unless otherwise indicated.

Wattage	Light Source	NEMA Type Beam Spread Horizontal X Vertical (Degrees)	Photometric Curve Number 35-17 - - - -
150 (55V)	HPS	7X6 (131X108)	9872
200	HPS	6X6 (127X112)	9873
250	HPS	6X6 (126X113)	9874
400	HPS	6X6 (125X108)	9876
175	MH	7X6 (140X112)	9877
250	MH	7X6 (132X113)	9878
400*	MH	6X6 (130X144)	9879

NOTE: *Lamp for 400 watt MH must be E-18 or ED-28 (reduced envelope) only. For cutoff at aiming angles 15° or less, order accessory TSV***-P4F separately.

GLAREFIGHTER™ ASYMMETRIC FLOODLIGHT

FIXTURE DIMENSIONS



CAUTION: Position illustrated is not recommended for Glarefighter applications. This illustration should only be used for dimensional purposes.

GLAREFIGHTER FLOODLIGHTING

F

DATA

Approximate Net Weight	45 lbs	20 kgs
Effective Projected Area	1.5 sq ft max	.14 sq M max
Suggested Mounting Height	20-60 ft	6-18 M

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage						
		60Hz				50Hz		
		Multivolt	120, 208 240, 277 480	347, 120X347	220	220	230	240
150 (55V)	HPS	H	H, M*	H	N/A	M	N/A	N/A
200	HPS	A, M	A, M	N/A	A	A	A, H, N	A
250	HPS	A, M, G	A, M, G	A	A	A	A, H, N	A
250/400	HPS	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A, M	A, M	A	A	A, H, N	H	A, H, N
175	MH	A	A	A	N/A	N/A	N/A	N/A
250	MH	A	A	A	N/A	N/A	N/A	N/A
400	MH	A	A	A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

NOTE: *For 150W HPS, 480V use A or M ballast only.

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-46 for Component Ordering Logic.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

HLU/VLU POWERFLOOD® FLOODLIGHT



VLUF



HLUF

(Shown with optional slipfitter)

APPLICATIONS

- Parking lots, industrial yards, construction sites, recreational areas, facade lighting, and other outdoor area applications.
- Particularly suited for high corrosion atmosphere, sea coast and marine applications.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Heavy-duty corrosion-resistant fiberglass reinforced polyester housing
- Enclosed, gasketed and activated-charcoal filtered optical assembly
- Heavy-gauge steel trunnion
- Corrosion-resistant hardware
- Built-in aiming sight
- Removable ballast tray
- Hydroformed aluminum reflector with ALGLAS® finish
- Mogul base socket – E39 standard
- Heat and shock resistant tempered glass lens

HLU/VLU POWERFLOOD FLOODLIGHTING

F

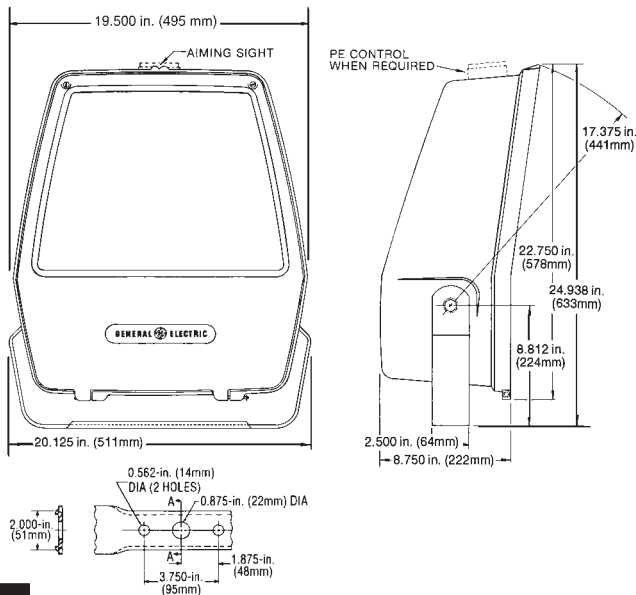
ORDERING NUMBER LOGIC

HLUF	40	S	0	A	1	4X2	DB	K
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAMSPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
HLUF = HLU Power-flood Floodlight (HPS only)	20 = 200 24 = 250/ 400 25 = 250 40 = 400*	S = HPS M = MH or Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220	See Ballast and Photometric Selection Table A = Autoreg (Standard) G = Mag-Reg with Grounded Socket Shell M = Mag-Reg (HPS only) P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Ballast and Photometric Selection Table Example: 4X2 = 4X2	DB = Dark Bronze	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt) G = Top Trunnion K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48-60 mm) OD Tenon P = Prewired with 6 ft (2 meters) #14/3 Q = Non-Time Delay Automatically Switched Quartz S = Knuckle Slipfitter for 1.9 to 3.0 in. (48-76mm) OD Tenon V = Knuckle Wall Mount Y = Dual Wattage Units Connect Higher Wattage
VLUF = VLU Power-flood Floodlight	NOTE: 250/400 connected for 250W *NOTE: 400W HPS Aiming Restriction Horizontal ±60°.		50Hz 6 = 220 *Connected for 120V					

HLU/VLU POWERFLOOD® FLOODLIGHT

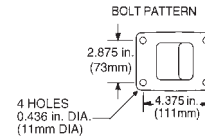
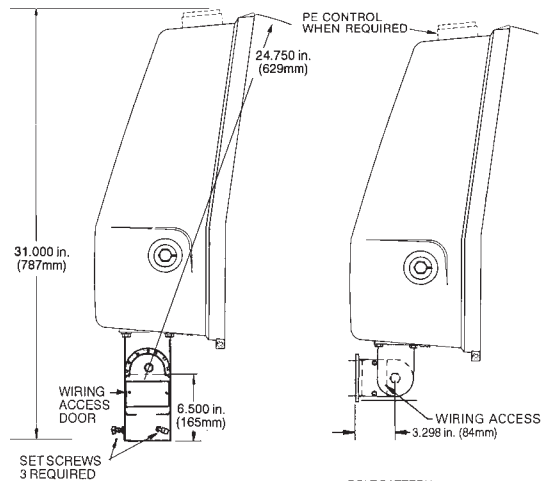
FIXTURE DIMENSIONS

Trunnion Mounted (Standard)



Slipfitter Mounted (Options K or S)

Wall Mounted (Option V)



DATA

Approximate Net Weight	43 lbs	20 kgs
Effective Projected Area		
From side	1.0 sq ft max	.09 sq M max
At 45° horizontal (normal aiming angle)	3.0 sq ft max	.28 sq M max
At 0° from horizontal	4.3 sq ft max	.4 sq M max
Suggested Mounting Height	20-60 ft	6-18 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage					NEMA Type Beam Spread Horiz X Vert (Degrees)	Photo- metric Curve Number 35-17----
		60Hz				50Hz		
		Multivolt	120,208 240,277 480	347, 120X347	220	220		
HLUF								
200,250,400	HPS	A, G, M**	A, G, M**	A*, G, M**	A	A	4X2 (69X25)	6592
200,250,400	HPS	A, G, M**	A, G, M**	A*, G, M**	A	A	6X5 (114X92)	6591
250	MH	A	A	A	A	A	C/F	C/F
VLUF								
200,250,400	HPS	A, M**	A, M**	A*, G, M**	A	A	7X6 (154X126)	6588
250	MH	A	A	A	A	A	7X6	6593
400	MH	A	A	A*, P	A	A	7X6 (151X102)	6589
400	Merc (Coated)	A	A	A*	A	A	7X7 (156X140)	6590

NOTE: *200, 250/400 dual wattage HPS not available in 347 volt.

NOTE: **250/400 dual wattage fixture requires autoreg ballast

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-46 for Component Ordering Logic.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

GE Lighting Systems, Inc.

www.gelightingssystem.com



PF-400® POWERFLOOD® FLOODLIGHT

APPLICATIONS

- Parking lots, building security, building facade, shipping yards, rail yards, and many more floodlighting applications.
- Engineered for situations requiring high performance and varied optics.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Die-cast aluminum housing with electrocoat paint finish
- Enclosed, gasketed and activated-charcoal filtered optical assembly
- Formed aluminum reflector with ALGLAS® finish
- Heavy duty steel trunnion with degree indicator
- Built-in "Sight-Track", quick aiming sight
- Tray mounted ballast available
- Heat and shock resistant tempered glass lens
- Front access via hinged/removable door
- Corrosion-resistant external hardware
- Terminal board
- Mogul base socket – E39 standard

F

PF-400 POWERFLOOD FLOODLIGHTING

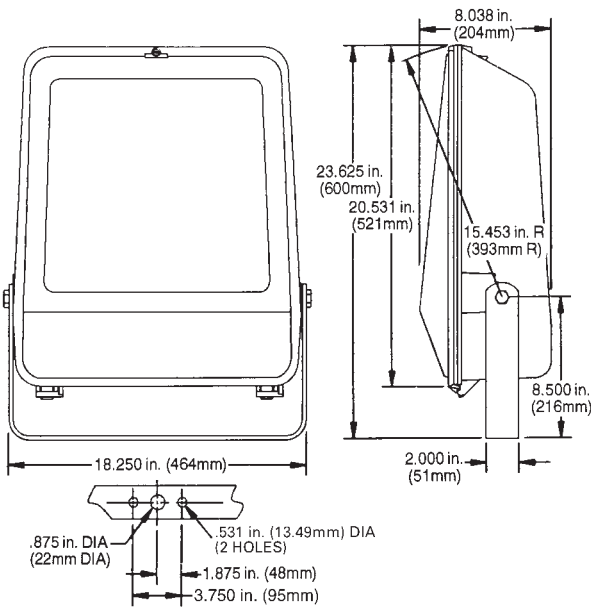
ORDERING NUMBER LOGIC

PF4S	24	S	0	A	1	6X6	DB	K
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAM SPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
PF4S = PF-400 Standard PF4T = PF-400 with Tray Mounted Ballast NOTE: 200-400W Mag-Reg not available on tray.	15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400* 25 = 250 40 = 400 *Connected for 250W	S = HPS M = MH Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 R = 230 Y = 240 *Connected for 120V	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart (Must Order "P" Option) Non-UL M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Photometric Selection Table Example: 6X6 = 6X6	DB = Dark Bronze (Standard) GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) G = Top Trunnion J = Line Surge Protector, Expulsion Type PF4S only K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48-60 mm) OD Tenon L = Latch for door P = Prewired with 6 ft (2 meters) #14/3 Q = Non-Time Delay Automatically Switched Quartz S = Knuckle Slipfitter for 1.9 to 3.0 in. (48-76mm) OD Tenon V = Knuckle Wall Mount Y = Dual Wattage Units Connect Higher Wattage

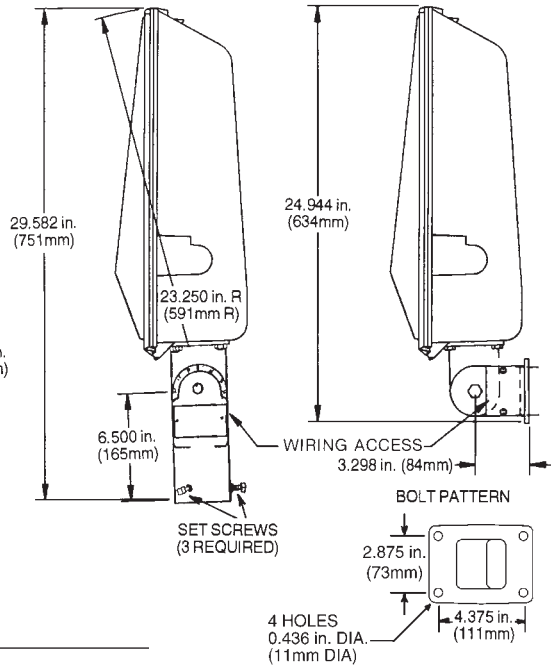
PF-400® POWERFLOOD® FLOODLIGHT

FIXTURE DIMENSIONS

Trunnion Mounted
(Standard)



Slipfitter Mounted
(Options K or S)



DATA

Approximate Net Weight	45 lbs	20 kgs
Effective Projected Area	1.5 sq ft max	.14 sq M max
Suggested Mounting Height	20-60 ft	6-18 M

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	NEMA Type Beam Spread Horizontal X Vertical (Degrees)		Photometric Curve Numbers 35-17 ----
		Vertical	Horizontal	
150 (55V)	HPS	7X6 (145X114) 6X6 (119X111)	3X2 (38X22)	8196
			4X2 (70X27)	7497
			4X4 (49X46)	7495
			4X4 (49X46)	7501
200, 250, 400	HPS	7X6 (154X126) 6X6 (127X119)	4X4 (49X46)	7491
				7632
				7481
			6X5 (114X92)	7699
			6X4 (101X67)	7487
			5X4 (82X63)	7473
			4X2 (61X25)	7475
				7475
175, 250	MH	6X6 (114X113)	3X2 (38X17)	7494
			4X4 (50X47)	7490
			4X2 (64X23)	7500
				7496
400	MH	7X6 (131X110)		7478
				7484
			6X5 (109X80)	7470
			4X4 (55X55)	7474

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage						
		60Hz				50Hz		
		Multivolt	120, 208, 240, 277, 480	347, 120X347	220	220	230	240
150 (55V)	HPS	H	H, M*	H	N/A	M	N/A	N/A
200	HPS	A, M	A, M	N/A	A	A	A, H, N	A
250	HPS	A, M, G	A, M, G	A	A	A	A, H, N	A
250/400	HPS	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A, M	A, K, M	A	A	A, H, N	H	A, H, N
175, 250	MH	A	A	A	N/A	N/A	N/A	N/A
400	MH	A	A	A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

NOTE: *For 150W HPS, 480V use A or M ballast only.

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-46 for Component Ordering Logic.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

DECAFLOOD™ 400

HID GENERAL PURPOSE FLOODLIGHTING

HID Lamp Included



APPLICATIONS

- Parking lots, building/area security, facade lighting, industrial yards, recreational areas, and any other general purpose area lighting application.

SPECIFICATIONS

- 1598 Listed
Suitable For Wet Locations
- Housing - Low copper content, die cast aluminum
- Reflector - Corrosion resistance anodized coating
- Dark Bronze powder coated polyester paint
- Ballast - Multivolt (120, 208, 240, & 277V) reconnectable autoregulator, connected 277V
- Mounting Variations - Units are available with:
 - Trunnion - pre-wired with 6' of #14/3 SEOW cord
 - 2 3/8" maximum OD pipe slipfitter.

FEATURES

- Units are supplied with the lamp in the same package.
- Unit incorporates an easy access stainless steel "bail" type latch and comes with provisions for tamper resistant screw closure - hardware is included.
- Wide variety of accessories available for spill and skyglow control.
- Units are available with standard twist-lock photoelectric control receptacle (PE suffix).
- Small compact size and aesthetically pleasing appearance.
- Wide beam optics for maximum area light coverage.

DECAFLOOD FLOODLIGHTING

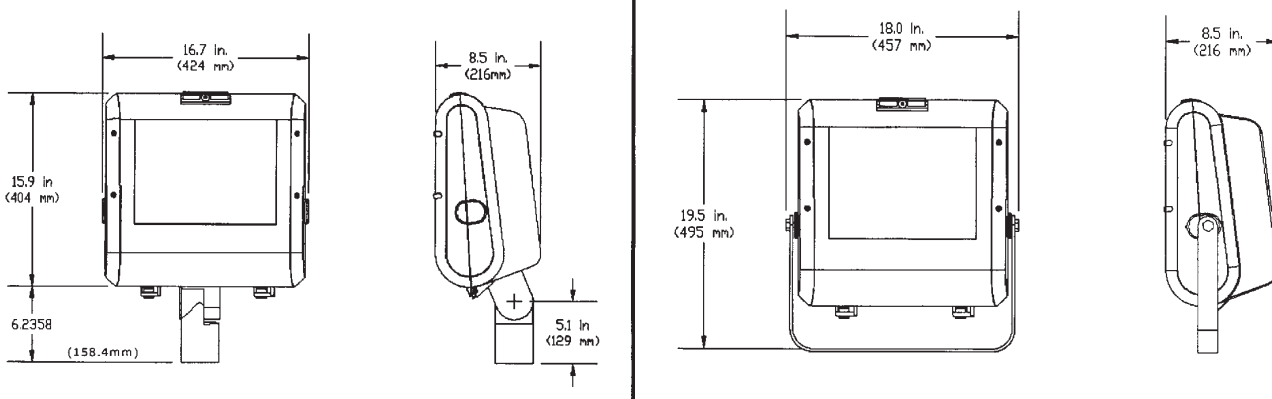
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ORDERING NUMBER LOGIC

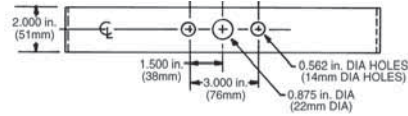
DFS	40	M	PE
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	PE FUNCTION
XXX	XX	X	XX
DFT = TRUNNION DFS = SLIPFITTER	25 = 250 40 = 400	S = HPS M = MH	PE = PE RECEPTACLE (If required)

DECAFLOOD™ 400 HID GENERAL PURPOSE FLOODLIGHTING

FIXTURE DIMENSIONS



TRUNNION UNIT SUPPLIED WITH 6 FEET OF #14/3 SEOW CABLE



DATA

Approximate Net Weight	34 lbs	15.4 kgs
Effective Projected Area	2.2 sq ft max	.2 sq M max
Suggested Mounting Height	20-60 ft	6-18 M

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Photometric Curve Number
400	MH	35-452936
250	MH	35-452937
400	HPS	35-452938
250	HPS	35-452939

ACCESSORIES

Top and side visor	TSVADKBZ-CFSX
Full visor	FVADKBZ-CFSX
Wire Guard	WG-CFSX
Barndoors	BDADKBZ-CFSX

Lexan vandal shield	LVS-CFSX
Cross arm mounting adapter	CAA-001



PF-154™ POWERFLOOD® FLOODLIGHT

APPLICATIONS

- Parking lots, building security and building facade
- Anywhere a compact 70 to 400 watt, wide beam floodlight is needed.

SPECIFICATION FEATURES

- 1598 Listed (PF1S only)
Suitable For Wet Locations
- Heavy duty die-cast aluminum housing
- Enclosed, gasketed and activated-charcoal filtered optical assembly
- Heavy duty steel trunnion with degree indicator
- One-piece hydroformed reflector with Alzak' finish
- Knuckle slipfitter and wall mounting options
- Built-in "Sight-Track", quick aiming sight
- Tray mounted ballast available (150 watt maximum)
- Heat and shock resistant tempered glass lens
- Front access via hinged/removable door
- Electrocoat paint finish inside and out
- Corrosion-resistant external hardware
- Mogul base socket – E39 standard

F

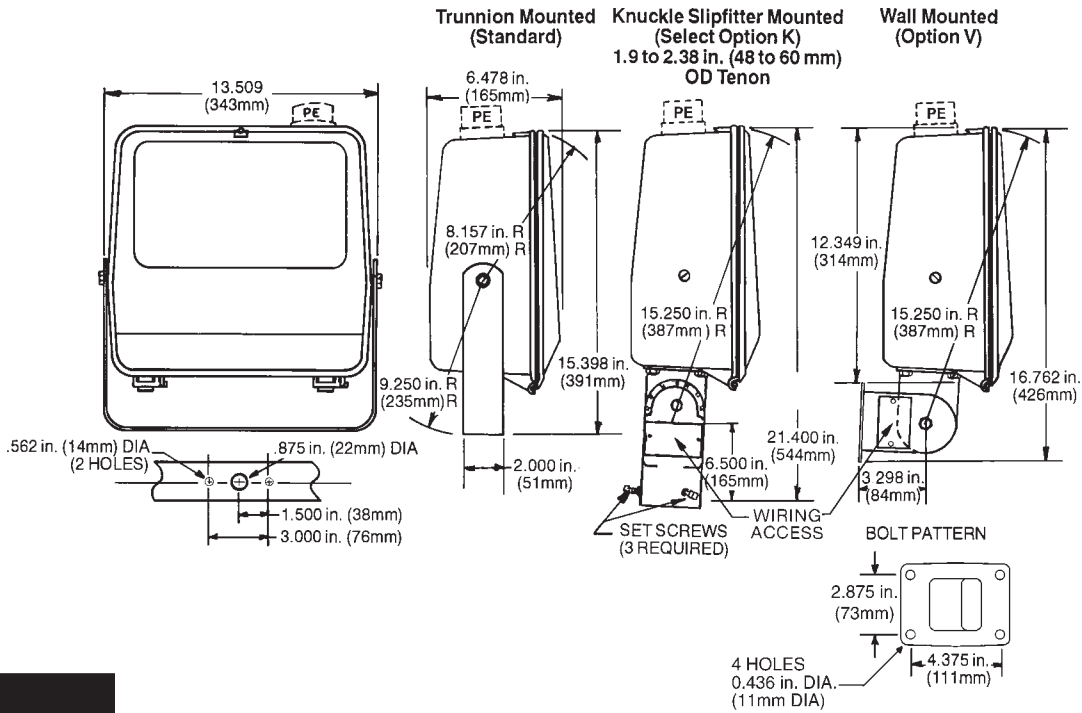
PF-154 POWERFLOOD FLOODLIGHTING

ORDERING NUMBER LOGIC

PF1S	07	S	0	H	1	6X6	DB	L
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAMSPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
PF1S = PF-154 Standard NOTE: 150W Max Mag-Reg	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/ 400* 25 = 250 40 = 400 *Connected for 250W	S = HPS M = MH or Merc CAUTION: For 400W MH, an E-18 or ED-28 lamp must be used. Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 R = 230 Y = 240 *Connected for 120V	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Photometric Selection Table Example: 6X6 = 6X6	DB = Dark Bronze	F = Fusing (Not available with multivolt or 120X347V) K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48-60 mm) OD Tenon L = Latch for door P = Prewired with 6 ft (2 meters) #14/3 T = Terminal Board V = Knuckle Wall Mount Y = Dual Wattage Units Connect Higher Wattage

PF-154™ POWERFLOOD® FLOODLIGHT

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	23-25 lbs	10-11 kgs
Effective Projected Area	1.2 sq ft max	.11 sq M max
Suggested Mounting Height	20-60 ft	6-18 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage								NEMA Beam Spread Horiz X Vert (Degrees)	Photometric Curve Number 35-17 ----
		60Hz				50Hz					
		Multivolt	120,208 240,277 480	347, 120X347	220	220	230	240			
70, 100, 150 (55V)	HPS	H, N, A	H***, M	H, G†	H,N	H,N	H,N	H,N	6X6(124X121) 7X6(141X123)	8609 9888	
200, 250,400**	HPS HPS	A A	A A	N/A A	N/A A	N/A A	N/A A	N/A A	6X6(120X114) 6X6(120X114)	8610 8610	
175	MH or Merc	A	A	A, P‡	A	A	A	A	6X6(122X116) 7X6(150X124)	8612 9889	
250	MH or Merc	A	A	A, P	A	A	A	A	6X6(122X116) 7X6(143X115)	8612 9892	
400*	MH	A	A	A	A	A	A	A	6X6(129X120)	8611	

NOTE: N/A = Not Available

*Lamp for 400 watt MH fixture must be E-18 or ED-28 only

**250/400 dual wattage not available in 347 volt

***For 150 watt and below, 480 volt, use A or M ballast only.

† Not available in 120X347 or tray

‡ Not available in 347 volt or 120X347

REFERENCES

See Page F-32 for start of Accessories.

See Pages F-47 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

GE Lighting Systems, Inc.

www.gelightingssystem.com

P-154 POWERFLOOD® FLOODLIGHT



APPLICATIONS

- Parking lots, building security, building facades, recreation areas and many other outdoor area applications
- Anywhere a compact 70 to 400 watt, floodlight is needed.
- Easy to hide for facade, entrance and identification sign lighting.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Heavy duty die-cast aluminum housing
- Heat and shock resistant tempered glass
- Heavy-gauge steel trunnion
- Corrosion-resistant hardware
- Hinged front door, secured with two corrosion-resistant screws
- Mogul base socket – E39 standard
- Terminal board
- UL1572 Outdoor Salt Water Marine and UL844 available – see Hazardous Location Lighting Section

F

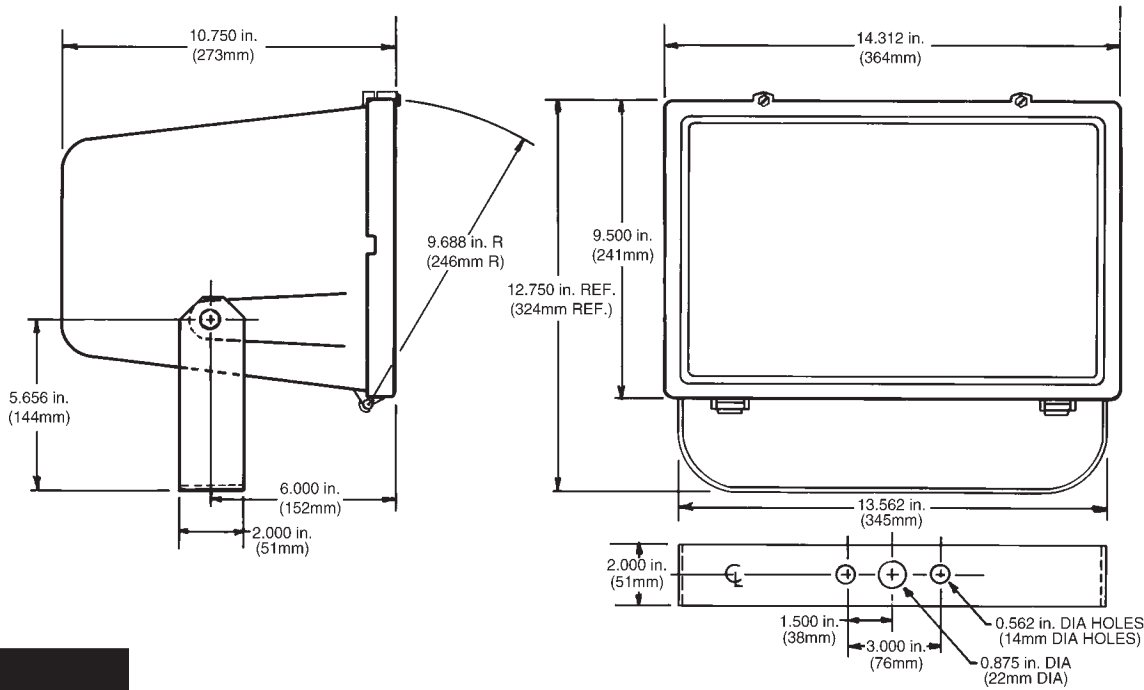
P-154 POWERFLOOD FLOODLIGHTING

ORDERING NUMBER LOGIC

P54S	07	S	0	H	1	7X6	DB	L
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAM SPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
P54S = P-154	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/ 400* 25 = 250 40 = 400 *Connected for 250W. Not available Multivolt	S = HPS M = MH or Merc CAUTION: For 400W MH, an E-18 or ED-28 lamp must be used. Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347* T = 220 50Hz 6 = 220 R = 230 Y = 240 *Connected for 120V *250 X 400 HPS or MH Multivolt not available	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit. Order PE Control separately.	Select NEMA Type from Photometric Selection Table Example: 7X6 = 7X6	DB = Dark Bronze	F = Fusing (Not available with multivolt or 120X347 volt) G = Top Trunnion L = Latch for door P = Prewired with 6 ft. (2M) #14/3 Y = Dual Wattage Units Connect Higher Wattage

P-154 POWERFLOOD® FLOODLIGHT

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	23-25 lbs	10-11 kgs
Effective Projected Area	1.0 sq ft max	.09 sq M max
Suggested Mounting Height	15-60 ft	5-18 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage							NEMA Type Beam Spread Horiz X Vert (Degrees)	Photometric Curve Number 35-17 - - - -
		60Hz				50Hz				
		Multivolt	120, 208, 240, 277, 480	347, 120x347	220	220	230	240		
70, 100, 150 (55V)	HPS	H	H, M***	H, G	H	H	H	H	6X6(126X128)	7346
175, 250	MH	A	A	A	A	N/A	N/A	N/A	7X6(136X129)	7344
175, 250	MH (Coated)	A	A	A	A	N/A	N/A	N/A	7X7(144X145)	7345
200	HPS	A	A	N/A	N/A	N/A	N/A	N/A	7X6(134X127)	7347
250, 400	HPS	A, P	A, P	A, P	A	A	A	A	7X6(134X127)	7347
250/400**	HPS	A	A	N/A	N/A	N/A	N/A	N/A	7X6(134X127)	7347
250	MH or Merc	A	A	A	A	A	A	A	7X6(136X129)	7344
400*	MH	A	A	A	N/A	N/A	N/A	N/A	7X6(131X120)	7455

NOTE: *Lamp for 400 watt MH fixture must be E-18 or ED-28 only
 **250/400 dual wattage not available in 347 volt
 ***For 150 watt and below, 480V - Use "M" ballast only.
 N/A = Not Available

REFERENCES

See Page F-32 for start of Accessories.
 See Pages F-47 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

MPF POWERFLOOD® FLOODLIGHT



APPLICATIONS

- Residential, lower wattage commercial and industrial applications
- Building perimeters, entrances, building facades and sign lighting

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- Heavy-duty die-cast aluminum housing
- 1/2 inch threaded swivel mount fits all standard boxes
- Medium base high pressure sodium and metal halide lamps
- No-tool relamping
- Corrosion-resistant hardware
- Alzak® finish on reflector
- Lamp included
- Heat & shock resistant tempered glass

F

MPF POWERFLOOD FLOODLIGHTING

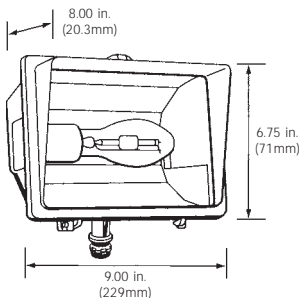
ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	TYPE BALLAST	COLOR***	NEMA TYPE BEAM SPREAD HORIZ X VERT (DEGREES)	PHOTOMETRIC CURVE 35-17 - - -
MPF05S1NDB	50	HPS	120	NPF	Dark Bronze	6X6 (110X119)	9637
MPF07S1NDB	70	HPS	120	NPF	Dark Bronze	6X6 (110X119)	9637
MPF10S1NDB	100	HPS	120	NPF	Dark Bronze	6X6 (110X119)	9637
MPF15S1NDB	150	HPS	120	NPF	Dark Bronze	6X6 (110X119)	9637
MPF07M1NDB	70	MH	120	NPF	Dark Bronze	6X6 (117X123)	9638

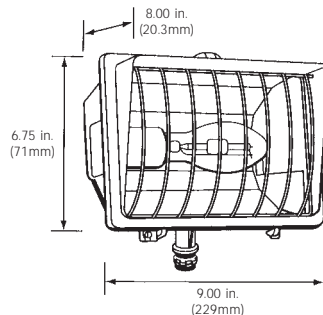
NOTE: * Change third letter "F" to "G" for floodlight with guard
DB = Dark Bronze
For PE Control field install PEK120 kit

FIXTURE DIMENSIONS

MPF



MPF-WG



DATA

Approximate Net Weight 6 lbs (3 kgs)
Suggested Mounting Height 0-20 ft (0-6 M)

REFERENCES

See Pages F-47 for Explanation of Options and Other Terms Used.

QUARTZ-FLOOD FLOODLIGHT



APPLICATIONS

- Building facades, signs, sports fields, and other general floodlighting applications
- Emergency and temporary floodlighting applications
- Particularly suited where instant on light, high color rendition, or low initial cost is important.

SPECIFICATION FEATURES

- / 1598 Listed
Suitable For Wet Locations
- Die-cast aluminum construction
- Tempered glass door
- Hinged front door
- Alzak[†] finish on aluminum reflector
- One-half inch threaded swivel mount
- Dark bronze
- 25°C maximum ambient temperature

ORDERING NUMBERS

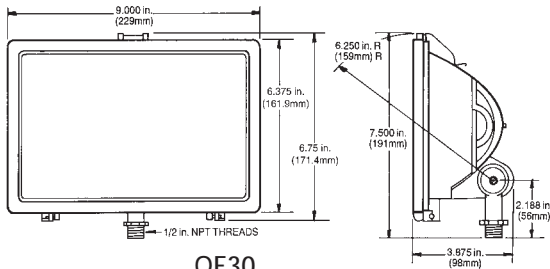
ORDERING NUMBER	WATTAGE	LIGHT SOURCE	LAMP	COLOR
QF30DB	300	Filament (Quartz-Halogen)	Included-120V	Dark Bronze
QF50DB	500	Filament (Quartz-Halogen)	Included-120V	Dark Bronze
QF1500	1500	Filament (Quartz-Halogen)	Not included*	Dark Bronze

* Lamp Determines Voltage

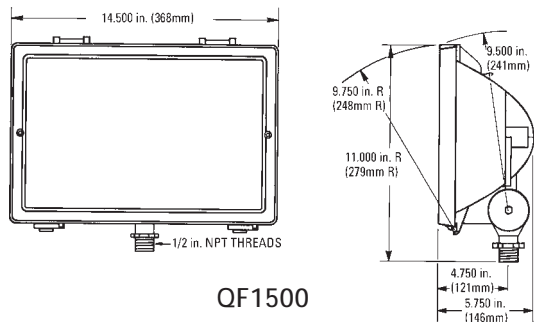
QUARTZ-FLOOD FLOODLIGHTING

F

FIXTURE DIMENSIONS



QF30,
QF50



QF1500

DATA

Approximate Net Weight	lbs	kg
QF30, QF50	2.5	1
QF1500	8.0	4
Effective Projected Area		
QF30, QF50	.5 sq ft max	.46 sq M max
QF1500	1.5 sq ft max	.10 sq M max

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	NEMA Type Beam Spread Horiz X Vert (Degrees)	Photometric Curve Number 35-17 - - -
300	Q300T3/CL	6X5(110X89)	7546
500	Q500T3/CL/120	6X5(117X89)	6555
1500	Q1500T3/CL/208	/240	7357
		/277	7357
		6X5(126X88)	7357

REFERENCES

See Page F-32 for start of Accessories.
See Pages F-47 for Explanation of Options and Other Terms Used.



SBF, SBN POWERFLOOD® FLOODLIGHT

APPLICATIONS

- Signage, facades, landscape lighting, building mounted focal points and flag lighting
- Residential, small scale commercial and industrial applications
- Ideal for situations where an easy-to-conceal floodlight with either wide beam or narrow beam photometrics is needed.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- Heavy duty die-cast aluminum housing
- Dark bronze electrocoat paint finish inside and out
- Enclosed and gasketed with Alzakt finished aluminum reflector and tempered glass lens
- Wide beam and narrow beam optics for medium base HID lamps
- HPF or NPF ballasts available
- 1/2-inch ID threaded swivel mount
- Medium base HPS or metal halide lamps
- Lamp included
- Corrosion-resistant hardware

F

SBF, SBN POWERFLOOD FLOODLIGHTING

ORDERING NUMBER LOGIC

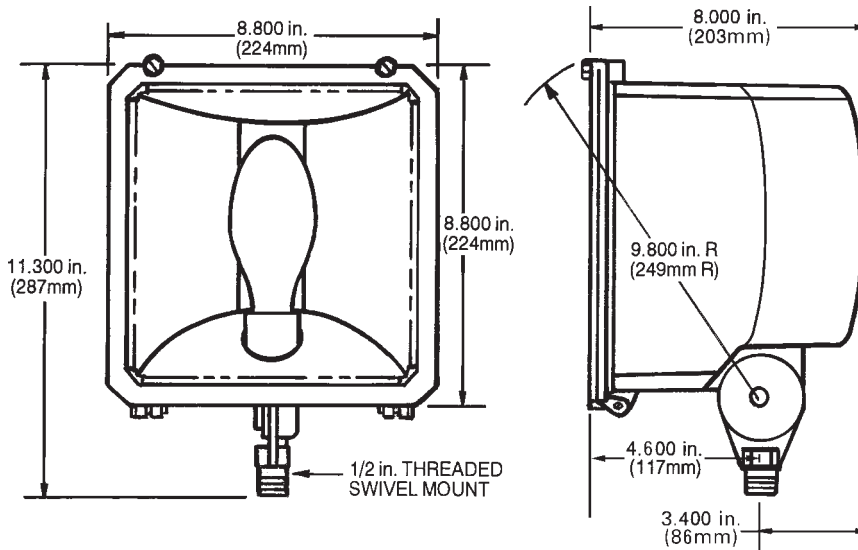
SBF	15	S	0	H	PE
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION
XXX	XX	X	X	X	X
SBF = Wide Beam SBF Powerflood Floodlight	03 = 35 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS M = MH Standard: Lamp installed in socket.	0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 220x347	See Ballast and Photometric Selection Table A = Autoreg (175W Metal Halide only) H = HPF Reactor or Lag N = NPF Reactor or Lag	PE = PE (if required)

REFERENCES

See Page F-32 for start of Accessories.
See Pages F-47 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

SBF, SBN POWERFLOOD® FLOODLIGHT

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	10-15 lbs	4-6 kgs
Effective Projected Area	.8 sq ft max	.074 sq M max
Suggested Mounting Height	0-20 ft	0-6 M

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage			NEMA Type Beam Spread Horiz X Vert (Degrees)	Photometric Curve Number 35-17 ----
		Multi-volt	120, 208, 240, 277, 480	347		
SBF						
35**	HPS	N/A	H, N*	N/A	6X6 (121X116)	7137
50, 70, 100 150 (55V)	HPS	H, N	H, N	H,N	6X6 (126X116)	7138
70, 100	MH	H	H, N	H,N	6X6 (126X117)	7469
175	MH	A	A	A	6X6 (126X117)	7469
SBN						
35**	HPS	N/A	H, N*	N/A	C/F	C/F
50, 70, 100 150 (55V)	HPS	H, N	H, N	H,N	3X4 (33X67)	8553
70, 100	MH	H	H, N	H,N	3X4 (34X56)	8572
175	MH	A	A	A	3X4 (34X56)	8572

NOTE: N/A = Not available C/F = Contact Factory
 *120 volt only for 35 watt (480 volt available for all others)
 **Not available in 347 volt or 120X347 volt

FLOODLIGHTING ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

See following Accessory pages for dimension drawings and descriptions.

LEGEND: // // // // // = Accessory can be used.

FLOODLIGHTING ACCESSORIES

F

INDEX	PRODUCT													
Ordering Number	Ultra★ Sport	Powr• Spot III	PF-1000	Glare- fighter	HLU/VLU	PF-400	Deca- Flood	PF-154	P-154	VPF/ MPF	SBF, SBN	QF1500	QF30, QF50	CRITERION
CROSS ARM ADAPTER														
CAA-SBF										// // // // //	// // // // //	// // // // //	// // // // //	
CAA-001	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
AUXILIARY CROSS ARM														
CAB-001			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FLAT SURFACE MOUNTING ADAPTER														
FSMA-SBF										// // // // //	// // // // //	// // // // //	// // // // //	
FLOODLIGHT BRACKET														
FBSFA2TTPP			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FBSFA2TTDB			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FBSFA2TTGR			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FBSUWH19.5X2GV		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //				
FBSUWH31.5X2GV		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FBSUWH48.5X2GV		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
FBSXA2TTPP	Cross-arm bracket with 2-inch vertical tenon for mounting any floodlight with 2-inch slipfitter													
FLOODLIGHT WIRING BOX														
FWBSBFPP	For use with wall mounting bracket FBSFA2TTPP (order separately)													
GLARE REDUCTION														
EVGC-PSFB		// // // // //												
IGLA-PF1K			// // // // //											
INGC-PS0		// // // // //												
INGC-PS2		1												
IVGC-PS0		// // // // //												
LA-PF1K			// // // // //											
LINE SURGE PROTECTOR, EXPULSION TYPE														
35-411749R01			// // // // //	// // // // //		2								
POLYCARBONATE VANDAL SHIELD														
LVS-CFSX														// // // // //
LVS-CFMX														// // // // //
LVS-PF1K			// // // // //											
LVS-PF1								// // // // //						
LVS-P15									// // // // //					
LVS-P4F				// // // // //		// // // // //								
LVS-PSFHD2		1												
LVS-PSF0		// // // // //												
LVS-SBF											// // // // //			
LVS-VLU					// // // // //									
MOUNTING BRACKET (FOR PE)														
MB-PECTL		// // // // //								// // // // //	// // // // //			
MULTIPLE MOUNTING CHANNEL														
MMC-HT001										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-SF001										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-SF002										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-SF003										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-WP001										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-WP002										// // // // //	// // // // //	// // // // //	// // // // //	
MMC-WP003										// // // // //	// // // // //	// // // // //	// // // // //	
PHOTOELECTRIC CONTROLS														
PEC0TL			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
PEC1TL			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
PEC5TL			// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
PHOTOELECTRIC CONTROL KIT														
PEK-120											// // // // //			
PEK-240											// // // // //			
PEK-277											// // // // //			
PEK-347											// // // // //			
POLE TOP ADAPTER														
PTADB-002		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //		// // // // //	// // // // //					
PTAGR-002		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //		// // // // //	// // // // //					

NOTE: 1 = PSFA, 22 in. (559mm) optical only 2 = PF4S only

FLOODLIGHTING ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LEGEND: // // // // // = Accessory can be used.

INDEX	PRODUCT													
	Ultra★ Sport	Powr• Spot III	PF-1000	Glare- fighter	HLU/VLU	PF-400	Deca- Flood	PF-154	P-154	VPF/ MPF	SBF, SBN	QF1500	QF30, QF50	CRITERION
SAFETY CHAIN														
OSC-ULTS	// // // // //	// // // // //												
OSC-ULTS001	// // // // //	// // // // //												
SHORTING CAP														
SCCL-PECTL			// // // // //	// // // // //		// // // // //		// // // // //	// // // // //					
SLIPFITTER ADAPTER														
SFADB-001	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
SFAGR-001	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //					
SWIVEL MOUNTING ADAPTER														
SMADB-SBF										// // // // //	// // // // //	// // // // //	// // // // //	
SMAGR-SBF										// // // // //	// // // // //	// // // // //	// // // // //	
TRUNNION MOUNT														
TMDB-QF50													// // // // //	
TMDB-QF1500												// // // // //		
TMDB-SBF001											// // // // //			
TMDB-SBF002											// // // // //			
TMGR-SBF001											// // // // //			
TMGR-SBF002											// // // // //			
TOP AND TWO SIDES VISOR														
TSVAXXXX-CFSX														// // // // //
TSVAXXXX-CFMX														// // // // //
TSVAXXXX-CFLX														// // // // //
TSVAL-PF1K			// // // // //											
TSVDB-PF1K			// // // // //											
TSVAL-PSFHD2		// // // // //												
TSVAL-PSF0		// // // // //												
TSVAL-P4F				// // // // //		// // // // //								
TSVDB-P4F				// // // // //		// // // // //								
TSVDB-PF1									// // // // //					
TSVDB-PF1001									// // // // //					
TSVDB-P15										// // // // //				
TSVDB-SBF											// // // // //			
TSVAL-SBF001											// // // // //			
TSVAL-VLU					// // // // //									
NEW	FULL VISOR													
FVAXXXX-CFSX														// // // // //
FVAXXXX-CFMX														// // // // //
NEW	BARN DOOR													
BDAXXXX-CFSX														// // // // //
BDAXXXX-CFMX														// // // // //
TOP VISOR														
TVAL-PF1K			// // // // //											
TVDB-PF1K			// // // // //											
TVAL-VLU					// // // // //									
VANDAL SHIELD LUMINAIRE PROTECTOR														
PPS-PF1									// // // // //					
PPS-PF4				// // // // //		// // // // //								
VERTICAL MOUNTING ADAPTER														
VMA-001	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //			// // // // //	// // // // //				
VSA-001		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //			// // // // //	// // // // //				
WIRE GUARD														
WG-CFSX														// // // // //
WG-CFMX														// // // // //
WG-CFLX														// // // // //
WG-PF1K			// // // // //											
WG-P15										// // // // //				
WG-P4F				// // // // //		// // // // //								
WG-PF1									// // // // //					
WG-PSF0		// // // // //												
WG-PSFHD2		// // // // //												
WG-VLU					// // // // //									
WOOD/METAL POLE ADAPTER														
WPA-001		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //		// // // // //			
WPB-002		// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //	// // // // //		// // // // //			

FLOODLIGHTING ACCESSORIES

F

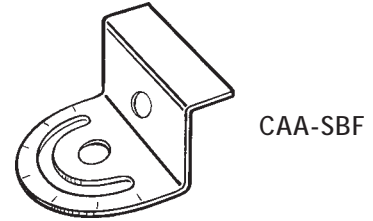
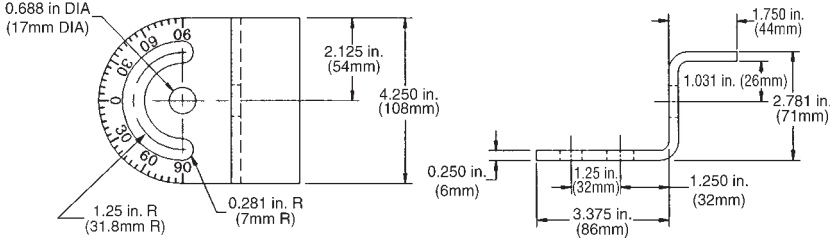
FLOODLIGHTING ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

CROSS ARM ADAPTER

• CAA-SBF

For horizontal trunnion mounting with degree scale for preset aiming and 180-degree adjustment—suitable for floodlights up to 15 pounds (7 kgs) approximate net weight only, (For use with swivel mounted units, order Trunnion Mount accessory.)



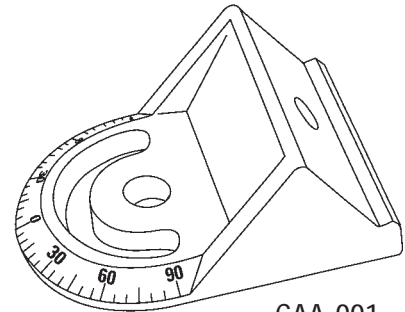
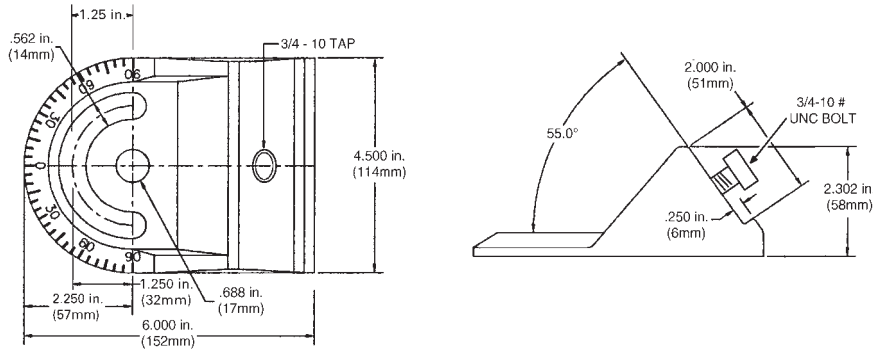
CAA-SBF

CROSS ARM ADAPTER

• CAA-001

For 35-degree trunnion mounting with degree scale for preset aiming and 180-degree adjustment.

CAUTION: This accessory should not cantilever more than 2 inches beyond front edge of support structure.

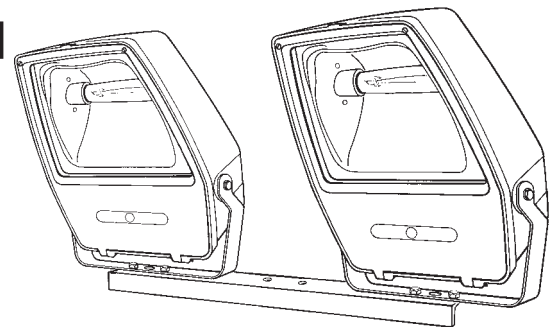
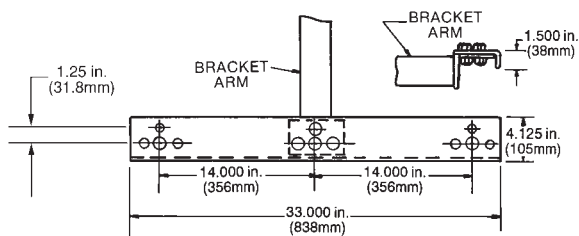


CAA-001

AUXILIARY CROSS ARM

• CAB-001

To allow mounting of two (maximum total weight 90 lbs [41 kgs] or smaller) trunnion-mounted floodlights on upsweep brackets (FBSUWH19.5X2GV, FBSUWH31.5X2GV, FBSUWH48.5X2GV). (With hardware kit)



CAB-001

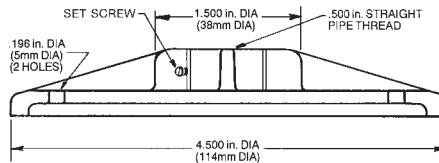
FLOODLIGHTING ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

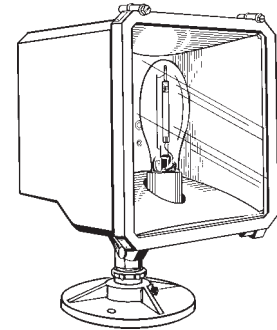
FLAT SURFACE MOUNTING ADAPTER

- **FSMA-SBF**
Flat mounting base for 4-inch (102mm) junction-box mounting

NOTE: Also fits CPF Powerflood® Floodlight and Quartz Flood



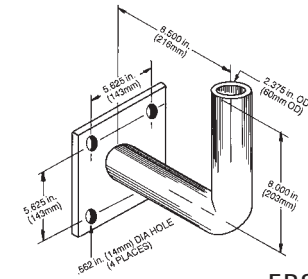
FSMA-SBF



FLOODLIGHT BRACKET

For Wall or Flat Surface

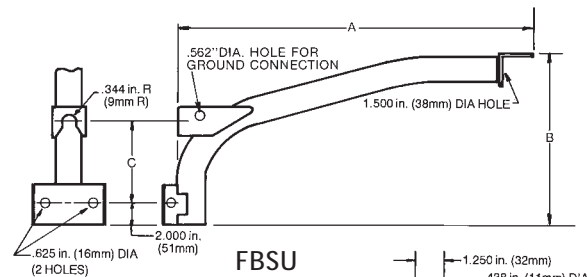
- **FBSFA2TTPP**
Wall mounting bracket for mounting any floodlight with 2-inch (51mm) slipfitter to flat, vertical or horizontal surface (Prime painted steel)
- **FBSFA2TTDB**
Same as **FBSFA2TTPP** except painted Dark Bronze
- **FBSFA2TTGR**
Same as **FBSFA2TTPP** except painted Gray



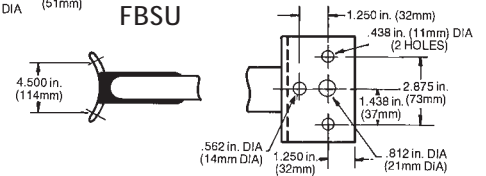
FBS

DIMENSIONS

CATALOG NO.	A	B	C
FBSUWH19.5X2GV	19.500 in. 495mm	15.000 in. 381mm	7.000 in. 178mm
FBSUWH31.5X2GV	31.500 in. 800mm	16.625 in. 422mm	8.250 in. 210mm
FBSUWH48.5X2GV	48.500 in. 1232mm	19.875 in. 505mm	8.250 in. 210mm



FBSU

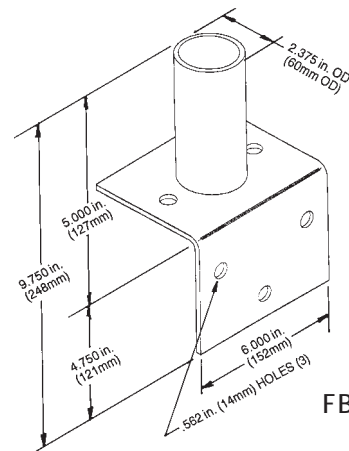


FBSX

For Trunnion Mounted Floodlights

- **FBSUWH19.5X2GV**
FBSUWH31.5X2GV
FBSUWH48.5X2GV
Galvanized steel upsweep brackets for vertical wood pole. Accommodates trunnion mounting with a full 360-degree adjustment. A 3/4-inch diameter bolt, nut and lock washer are included to mount floodlight trunnion on flange. Maximum weight allowed is 90 lbs (41 kgs).

- **FBSXA2TTPP**
Cross-arm bracket with 2.375-inch (60mm) OD vertical tenon for mounting any floodlight with 2-inch (51mm) slipfitter (Prime painted steel)



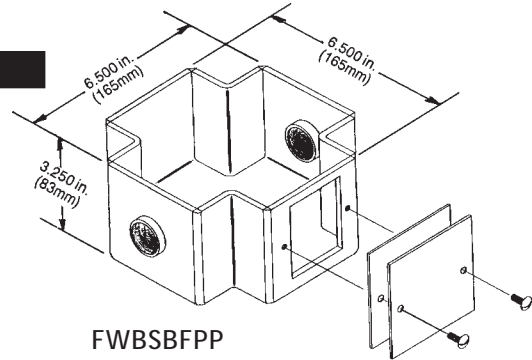
FLOODLIGHTING ACCESSORIES

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ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

FLOODLIGHT WIRING BOX

- **FWBSBFPP**

For use with wall mounting bracket **FBSFA2TTPP** (order separately). Two 3/4-inch tapped conduit entrances for thru-feed surface wiring. Gasketed wiring compartment cover (prime painted steel).



GLARE REDUCTION

- **EVGC-PSFB**

20 in. Door & Glass Assembly with external visor

- **INGC-PS0**

20 in. Door & Glass Assembly with internal louver

- **INGC-PS2A-NEMA2**

Internal Louver only for 22 in. (559mm) optical (also known as "Bradley Louver")

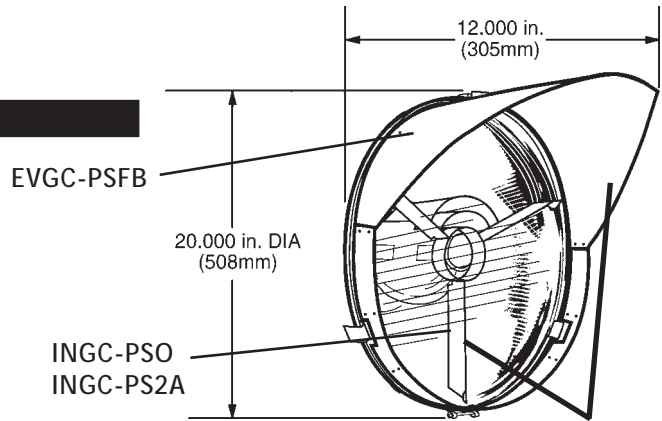
- **INGC-PS2B-NEMA3**

- **LAAL-PF1K**

External Louver Assembly for PF-1000

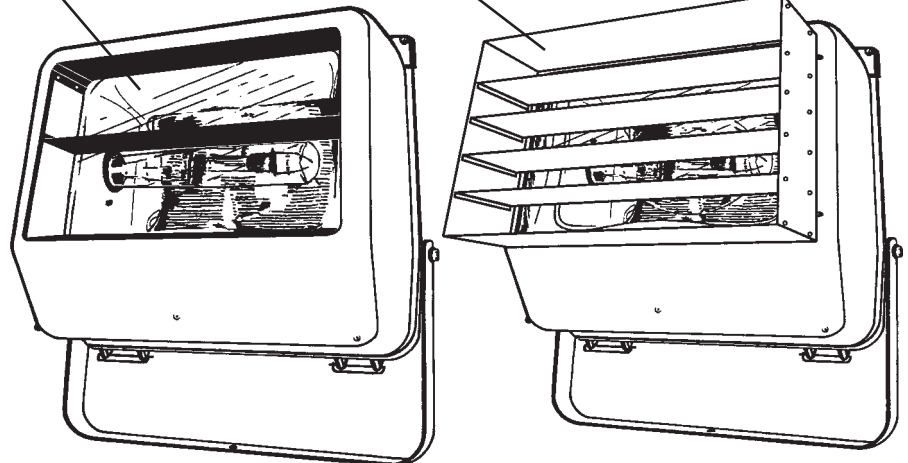
- **IGLA-PF1K**

Assembly fits into hydroformed reflector after lamping. Assembly held in place by clips. (For 1000w HPS only)



IGLA-PF1K

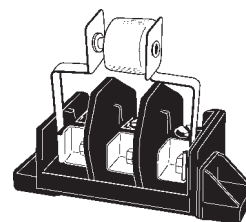
LAAL-PF1K



LINE SURGE PROTECTOR, EXPULSION TYPE

- **35-411749R01**

Can be added to most fixture terminal boards.



35-411749R01

FLOODLIGHTING ACCESSORIES

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POLYCARBONATE VANDAL SHIELD

- **LVS-PF1K**

Can use with Top and Side visor
45° Limit aim angle from nadir

- **LVS-PF1**

Can use with wire guard **WG-PF1**
Can use with top and side visor **TSVDB-PF1**

- **LVS-P15**

Can use with top and side visor **TSVDB-P15**
Can use with wire guard **WG-P15**

- **LVS-CFSX**

Can use Top & Side Visor **TSVXXXX-CFSX**

- **LVS-CFMX**

Can use Top & Side Visor **TSVXXXX-CFMX**

- **LVS-P4F**

Can use with top and side visor **TSVAL-P4F**, **TSVDB-P4F**,
Can use with wire guard **WG-P4F**,
Can also be used on Versaflood® Wallighter luminaire

- **LVS-PSFHD2 (400 Watt Max)**

NEMA 2, for use with 400 watt Heavy Duty 22-inch (559mm) optical only. Both vandal shield and top and side visor cannot be used at the same time.

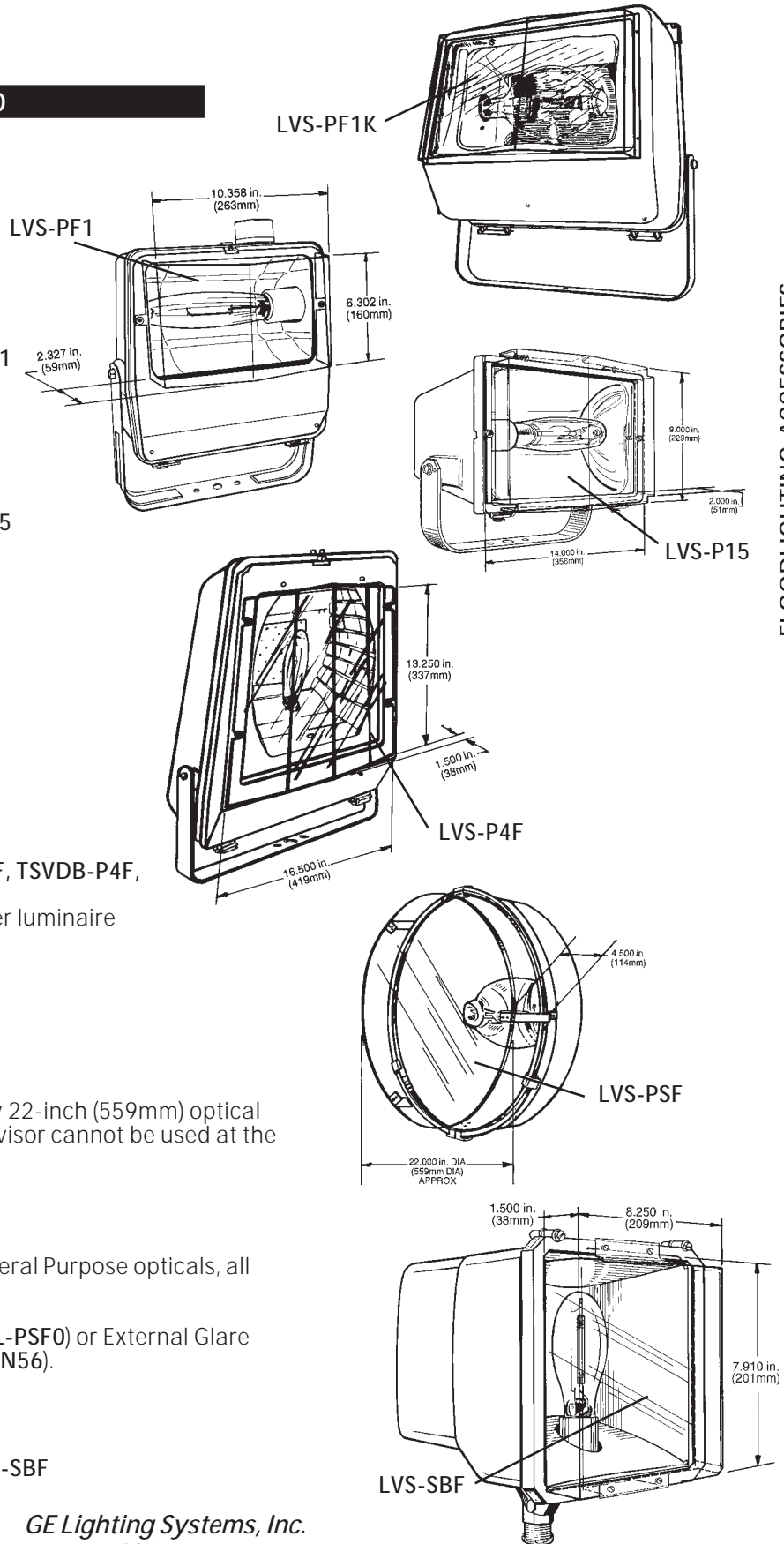
- **LVS-PSF0 (400 Watt Max)**

For 20-inch (508mm) Heavy Duty and General Purpose opticals, all beam spreads, 400 watt max.

Cannot use with Top and Side Visor (**TSVAL-PSF0**) or External Glare Control Louvers (**EGCL-PS0N34**, **EGCL-PS0N56**).

- **LVS-SBF**

Cannot use with top and side visor **TSVDG-SBF**

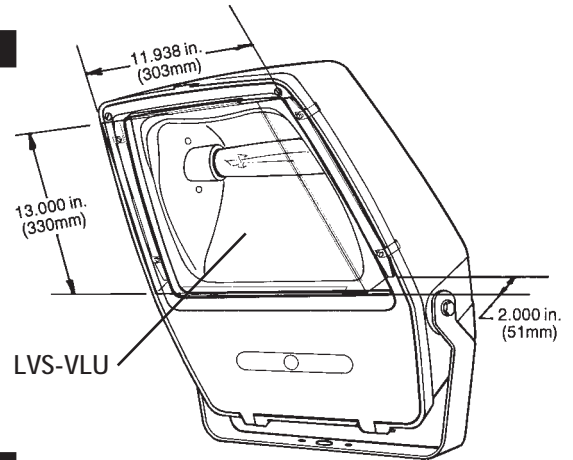


FLOODLIGHTING ACCESSORIES

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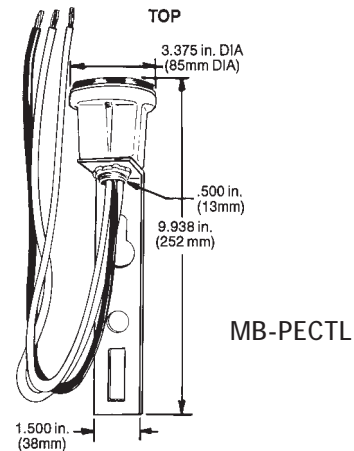
POLYCARBONATE VANDAL SHIELD

- LVS-VLU
Can use with top and side visor TSVDB-VLU
Cannot use with wire guard WG-VLU



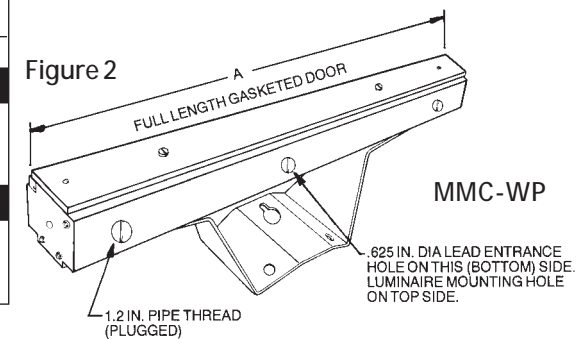
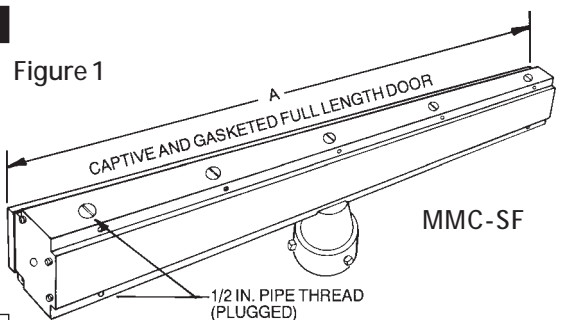
MOUNTING BRACKET

- MB-PECTL
With locking-type receptacle for use with photoelectric control (remove bracket to use with conduit)



MULTIPLE MOUNTING CHANNEL

- MMC-HT001
Horizontal Slipfitter similar to MMC-SF



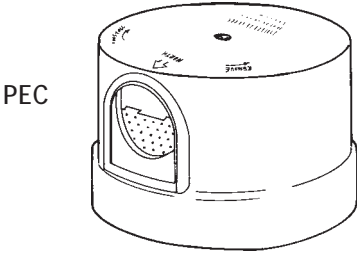
Ordering Number	Length Dimension A		Number of Floodlights Accommodated		Approximate Net Weight For Channels Only		Maximum Effective Projected Area	
	In.	mm	QF30/QF50	QF1500	Lbs	Kgs	Sq Ft	Sq M
WITH VERTICAL SLIPFITTER TO MOUNT ON 1-7/8 TO 2-7/8 INCH OD PIPE (Fig. 1)								
MMC-SF001	28.500	724	5	4	8.5	4	1.2	0.11
MMC-SF002	52.500	1,334	9	5	15.0	7	2.2	0.20
MMC-SF003	76.500	1,943	13	9	21.5	10	3.2	0.30
WITH WOOD POLE BRACKET (Fig. 2)								
MMC-WP001	28.500	724	5	4	14.5	7	1.6	0.15
MMC-WP002	52.500	1,334	9	5	21.0	10	2.6	0.24
MMC-WP003	76.500	1,943	13	9	27.5	13	3.6	0.33

FLOODLIGHTING ACCESSORIES

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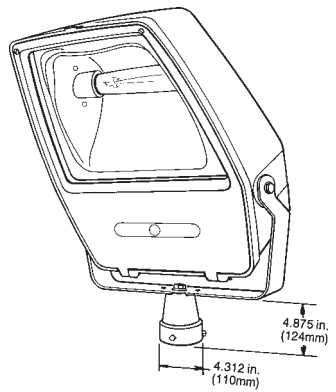
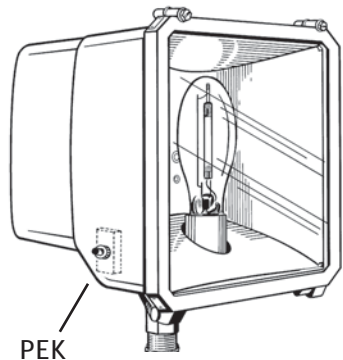
PHOTOELECTRIC CONTROL

- **PEC0TL**
120, 208, 240, 277 Multivolt Turn and Lock
- **PEC1TL**
120 volt Turn and Lock
- **PEC5TL**
480 volt Turn and Lock



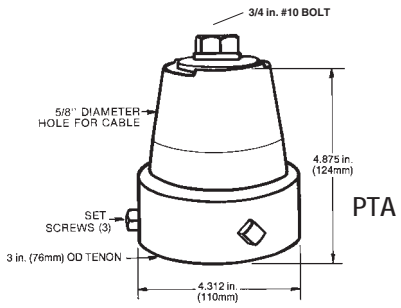
PHOTOELECTRIC CONTROL KIT

- **PEK-120**
120 volt-for field installation
- **PEK-240**
208 volt, 240 volt-for field installation
- **PEK-277**
277 volt-for field installation
- **PEK-347**
347 volt-for field installation



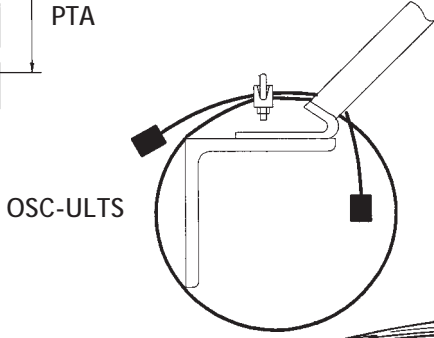
POLE TOP ADAPTER

- **PTADB-002**
Dark Bronze, for 3-inch (76mm) OD pipe
- **PTAGR-002**
Gray, for 3-inch (76mm) OD pipe



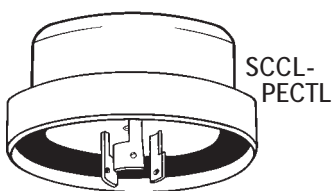
SAFETY CHAIN

- NEW** • **OSC-ULTS**
4 ft. (1.2 meters)
- NEW** • **OSC-ULTS001**
6 ft. (1.8 meters)



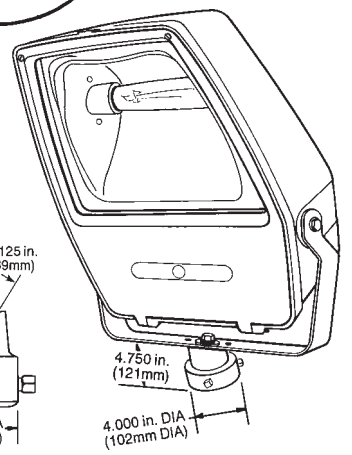
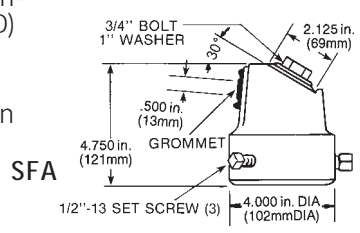
SHORTING CAP

- **SCCL-PECTL**



SLIPFITTER ADAPTER

- **SFADB-001**
Dark Bronze, cast aluminum slipfitter for 30-degree mounting of trunnion on 1-1/2 to 2-1/2 inch pipe (1.9 to 2.875-inch [48 to 73mm] OD)
- **SFAGR-001**
Gray, cast aluminum slipfitter for 30-degree mounting of trunnion on 1-1/2 to 2-1/2 inch pipe (1.9 to 2.875-inch [48 to 73mm] OD)



FLOODLIGHTING ACCESSORIES

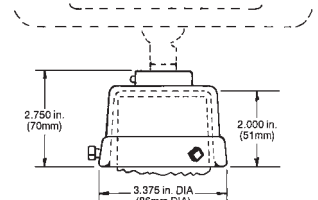
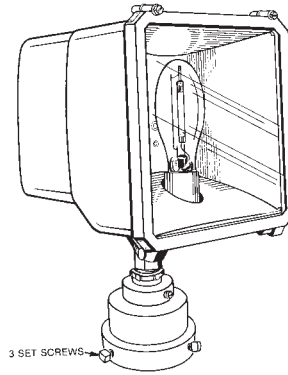
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
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SWIVEL MOUNTING ADAPTER

- **SMADB-SBF**
Dark Bronze, slipfitter for mounting on 1-1/2 to 2-inch standard pipe (1.9 to 2.38-inch [48 to 60 mm] OD)

- **SMAGR-SBF**
Gray, slipfitter for mounting on 1-1/2 to 2-inch standard pipe (1.9 to 2.38 [48 to 60mm] OD)

NOTE: Also fits VPF/MPF Powerflood® Floodlight and Quartz-Flood.



SMA

TRUNNION MOUNT

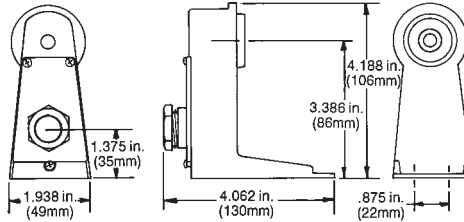
- **TMDB-SBF001**
Dark Bronze, with single-cable entrance
NOTE: Can be used for SBF and SBN luminaires

- **TMDB-SBF002**
Dark Bronze, with twin-cable entrance

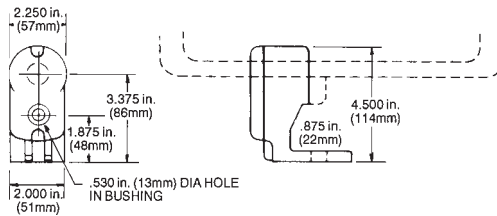
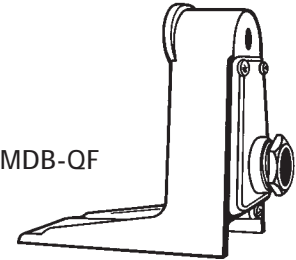
- **TMGR-SBF001**
Gray, with single-cable entrance

- **TMGR-SBF002**
Gray, with twin-cable entrance

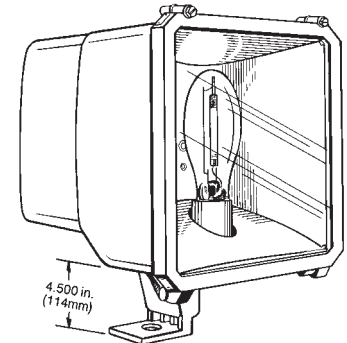
- **TMDB-QF50**
Dark Bronze, for QF300/500



TMDB-QF



TM***-SBF



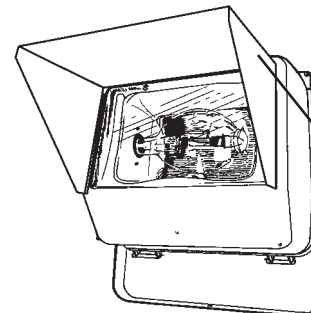
TOP AND TWO SIDES VISOR

- **TSVAL-PF1K**
Aluminum

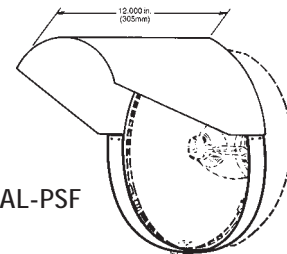
- **TSVDB-PF1K**
Dark Bronze

- **TSVAL-PSFHD2**
Aluminum, for Heavy Duty luminaires only, 22-inch (559mm) optical only

- **TSVAL-PSF0**
Aluminum, for Heavy Duty or General Purpose luminaires, 20-inch (508mm) optical only. Mount visor on door.



TSV***-PF1K



TSVAL-PSF

FLOODLIGHTING ACCESSORIES

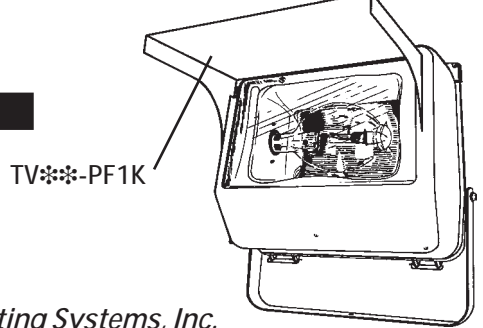
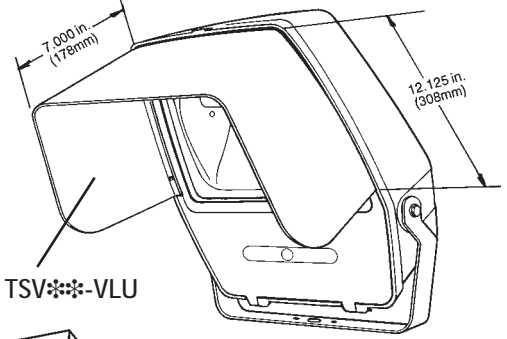
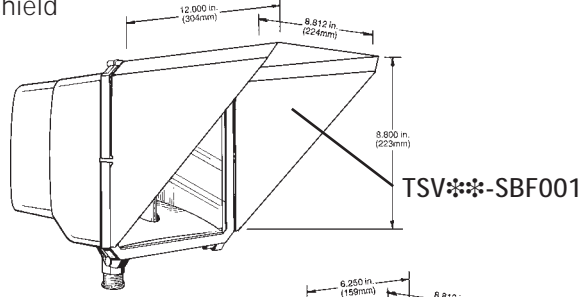
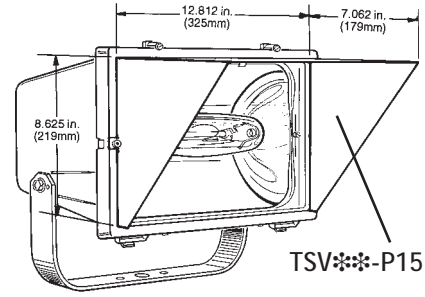
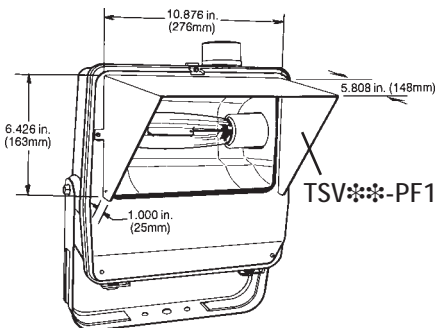
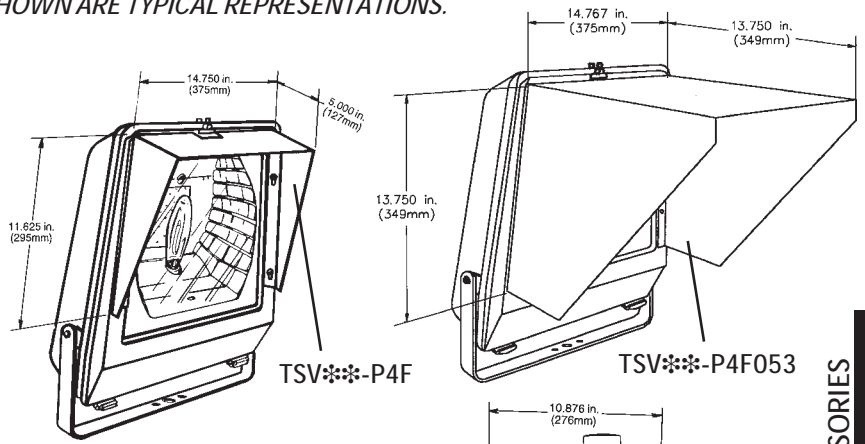
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TOP AND TWO SIDES VISOR

- **TSVAL-P4F**
Aluminum
- **TSVDB-P4F**
Dark Bronze, can use with polycarbonate vandal shield **LVS-P4F**
Can use with wire guard **WG-P4F**
- **TSVDB-P4F053**
Heavy duty visor
- **TSVDB-PF1**
Dark Bronze, can use with **WG-PF1** wire guard
Can use with **LVS-PF1** vandal shield
- **TSVDB-PF1001**
Dark Bronze, can use with **WG-PF1** wire guard
Can use with **LVS-PF1** vandal shield
- **TSVDB-P15**
Dark Bronze, can use with **LVS-P15** polycarbonate vandal shield

NEW

- **TSVAL-SBF001**
Aluminum
- **TSVDB-SBF**
Dark Bronze
- **TSVAL-VLU**
Aluminum, can use with **LVS-VLU** polycarbonate vandal shield



FLOODLIGHTING ACCESSORIES

F

TOP VISOR

- **TVAL2-PF1K**
Aluminum
- **TVDB2-PF1K**
Dark Bronze

FLOODLIGHTING ACCESSORIES

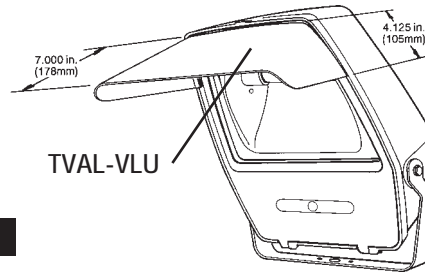
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FLOODLIGHTING ACCESSORIES

F

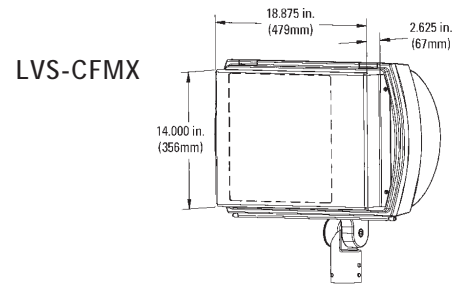
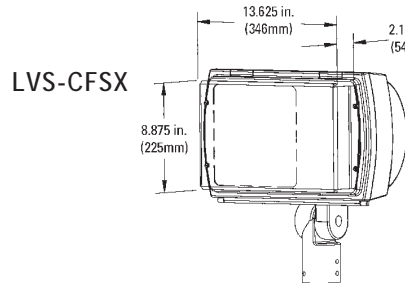
TOP VISOR

- TVAL-VLU
Aluminum



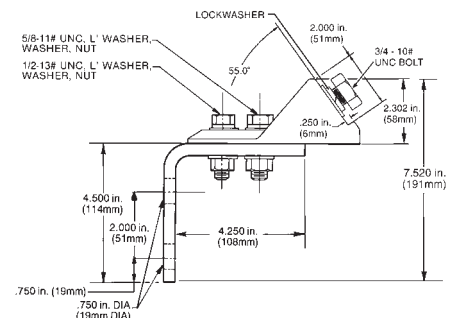
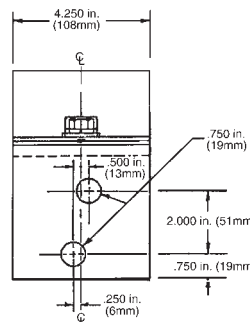
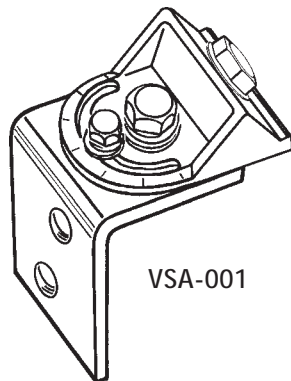
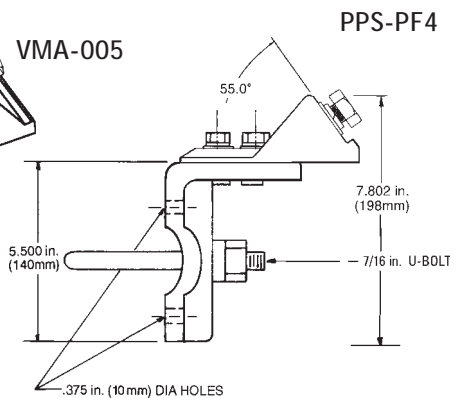
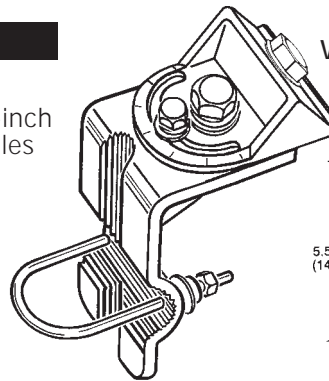
POLYCARBONATE VANDAL SHIELD

- LVS-CFSX
GELS Criterion Accessory
- LVS-CFMX
GELS Criterion Accessory



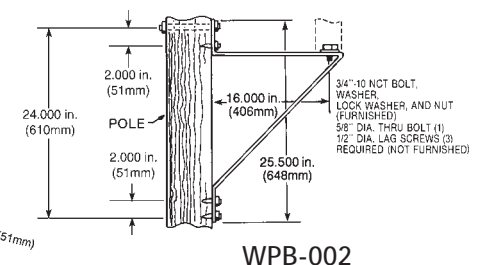
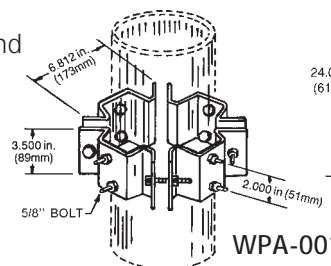
VERTICAL MOUNTING ADAPTER

- VMA-005 (Can be used with Ultra★Sport)
Galvanized for mounting on vertical 1-1/2 to 2-1/2-inch pipe (1.9 to 3.0-inch [48 to 76 mm] OD on wood poles and flat wall surfaces. Has degree scale for preset aiming and 180-degree adjustment.
- VSA-001 (Do not use with Ultra★Sport)
For adjustable horizontal trunnion mounting on pole clamp band (WPA-001) with degree scale for preset aiming and 180-degree adjustment.



WOOD / METAL POLE ADAPTER

- WPA-001 (Galvanized Steel)
A 6.5 to 8-inch (165 to 203 mm) diameter pole clamp band for mounting with other adapters up to four floodlights
NOTE: Must also order VSA-001 to mount floodlights (One per floodlight)
- WPB-002 (Galvanized Steel)
Angle bracket for vertical trunnion mounting and full 360-degree adjustment

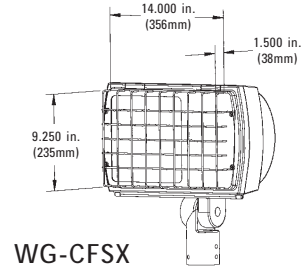
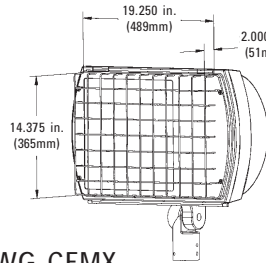
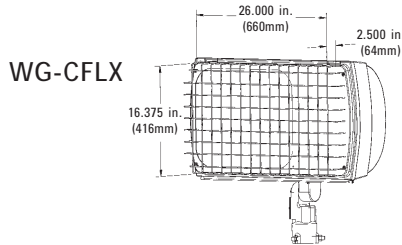


FLOODLIGHTING ACCESSORIES

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WIRE GUARD

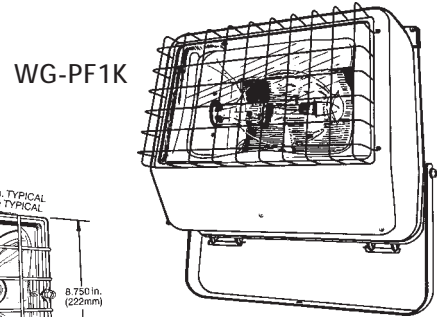
- WG-CFLX
- WG-CFMX
- WG-CFSX



WG-CFMX

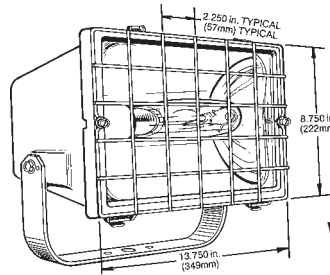
WG-CFSX

- WG-PF1K
Can use with polycarbonate vandal shield LVS-PF1K
Can use with top and side visors TSV***-PF1K, TV***-PF1K



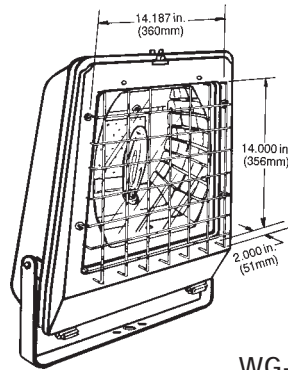
WG-PF1K

- WG-P15
Can use with polycarbonate vandal shield LVS-P15



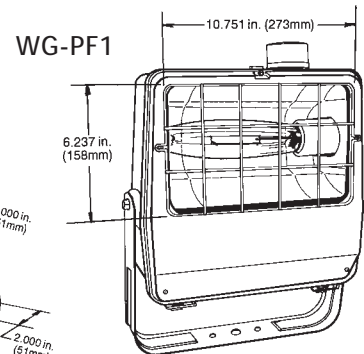
WG-P15

- WG-P4F
Can use with polycarbonate vandal shield LVS-P4F
Can use with top and side visors TSV**AL-P4F, TSV**DB-P4F, TSV***-P4F053



WG-P4F

- WG-PF1
Can use with polycarbonate vandal shield LVS-PF1
See visors for usage.

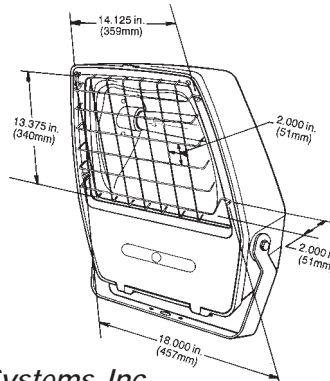


WG-PF1

- WG-PSF0
Fits 20-inch (508mm) Heavy Duty or General Purpose (Not Shown)

- WG-PSFHD2
Fits 22-inch (559mm) Heavy Duty or General Purpose (Not Shown)

WG-VLU



- WG-VLU
Cannot be used with LVS-VLU

FLOODLIGHTING ACCESSORIES

F

FLOODLIGHTING ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

REMOTE BALLASTED POWER SPOT III FLOODLIGHT WITH OR WITHOUT GLARE CONTROL

INDOOR APPLICATION

HPS lamps (separated from ballast 10 feet (3 meters) or less) or metal halide lamps.

(Figure 1) - choose one Ordering Number each from STEPS 1, 2, 3, 4, and 5:

- **STEP 1.** From Floodlight Component page F-46, select an Ordering Number for Optical Component for Power Spot floodlight or Power Spot floodlight or Power Spot floodlight with glare control.

EXAMPLE: PSFBDHD0
PSFGCHD0

- **STEP 2** From Optical/Lamp Holder Selection Table, select an Ordering Number for Power Spot floodlight (same for both products). See Figure 2 for dimensions of Power Spot floodlight page F-36 for dimensions of glare control assembly.

EXAMPLE: PSFC95M

- **STEP 3** From Industrial component page I-145 select Ordering Number for Ballast Component of Filterglow

EXAMPLE: FG6G01M0AN11

Figure 3 FG6 Large Ballast Housing

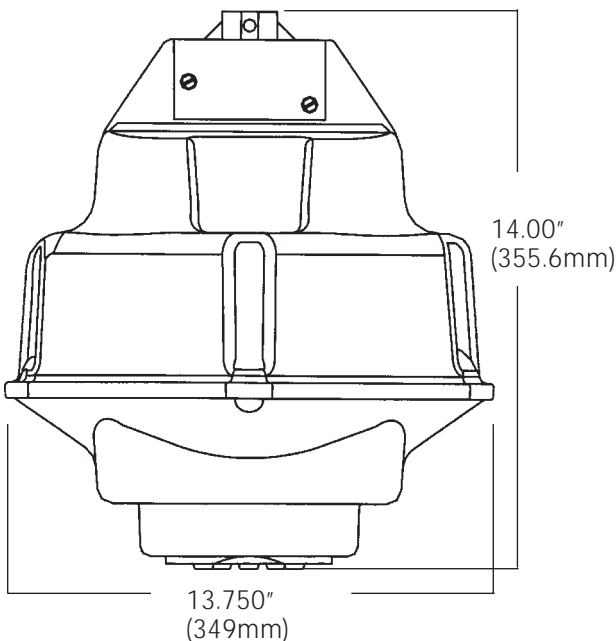
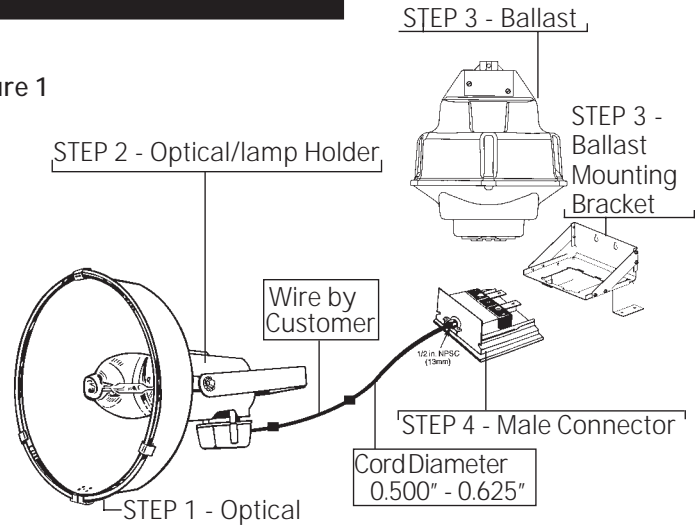


Figure 1



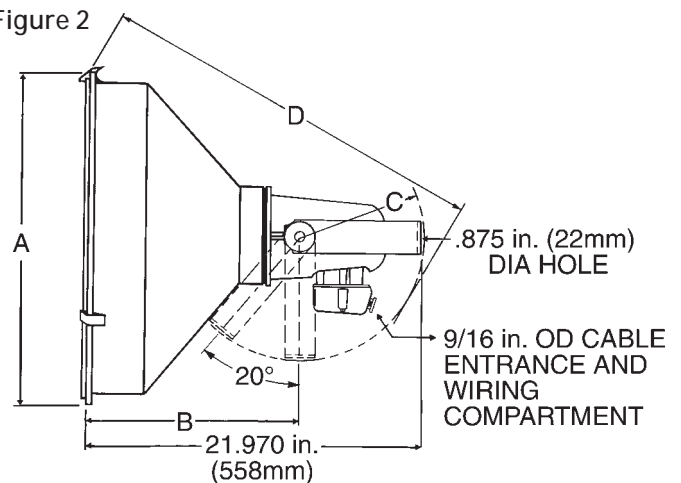
OPTICAL/LAMP HOLDER SELECTION TABLE

Wattage	Light Source	Ordering Number	Maximum Separation, Optical and Ballast
200, 250, 400	HPS	PSFC40S	10ft (3M)
750	HPS	PSFC75S	10ft (3M)
1000	HPS	PSFC01SC034	10ft (3M)
400	Metal Halide	PSFC40M	NOTE*
1000/1500	Metal Halide	PSFC95M	NOTE*

NOTE: *No limitation except voltage drop in the cable must not exceed five volts.

OPTICAL	A DIA.	B	C RADIUS	D MIN.
22in. 559mm	23.000in. 584mm	13.000in. 330mm	9.000in. 229mm	26.500in. 673mm
20in. 508mm	21.000in. 533mm	13.000in. 330mm	9.000in. 229mm	26.000in. 660mm

Figure 2



INDOOR APPLICATION (Continued)

• **STEP 3a.** For metal halide indoor and high temperature applications (65°C), a special encapsulated ballast is available which includes wiring box and conduit entrance. See figure 4 for dimensions.

EXAMPLE: ENC40M0A6018
ENC01M0A6018
ENC51M0A6018

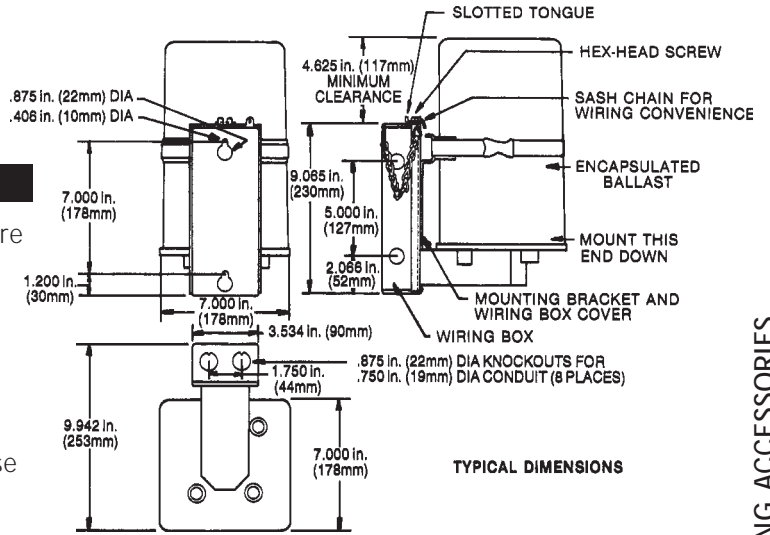
• **STEP 4** From **Male Connector Selection Table**, choose an Ordering Number. Male connector mates with receptacle on bottom of ballast housing.

EXAMPLE: MCS-FGB

• **STEP 5** From **Ballast Mounting Bracket Selection Table**, select an Ordering Number for Ballast Mounting Bracket for horizontal or vertical surface mounting. See Figure 5 for dimensions. LARGE (FG6) Filterglow® luminaire ballast housing must be used to fit bracket.

EXAMPLE: HSM-FG6

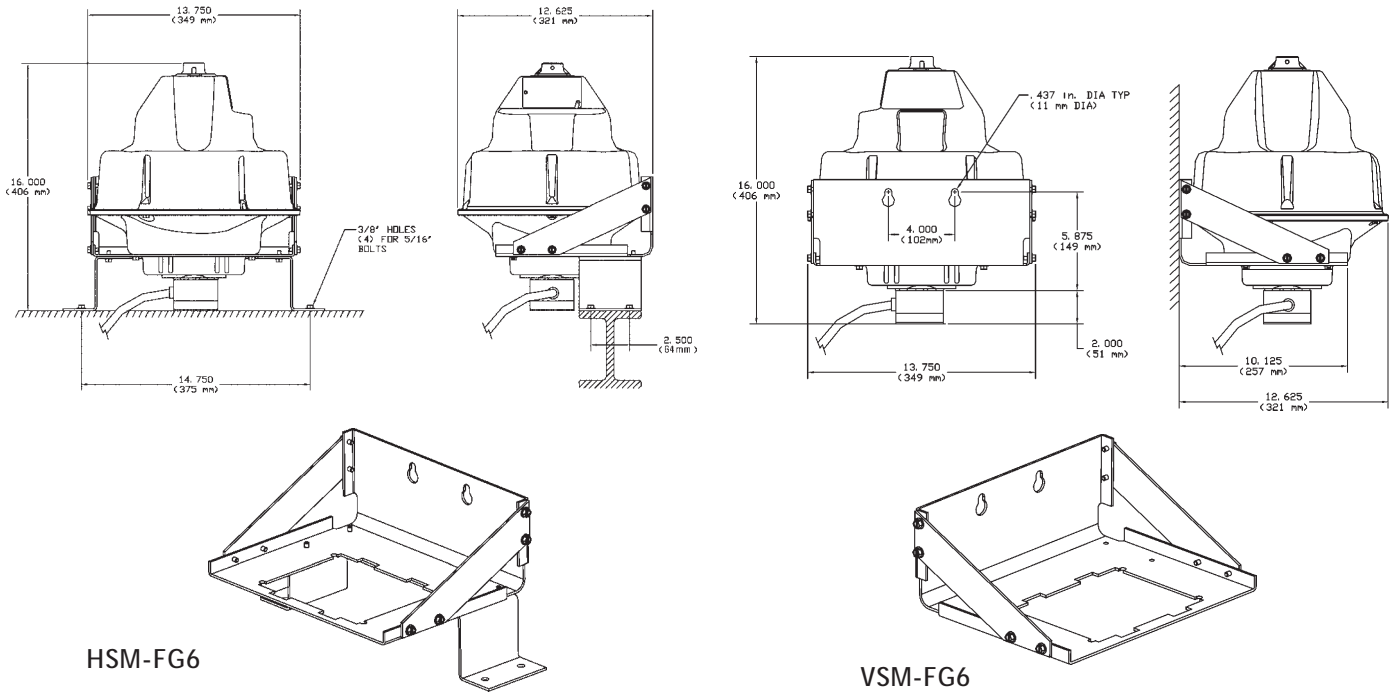
Figure 4 – Encapsulated Ballast



MALE CONNECTOR SELECTION TABLE*		
Circuit	Ordering Number	Option
Single	MCS-FGB	Add "W" suffix to any listed Ordering Number for connectors suitable for wet location
Dual for Automatically Switched Quartz (500 watt maximum)	MCD-FGB	
	HPS	
NOTE: *Customer wiring required		

BALLAST MOUNTING BRACKET SELECTION	
Mounting Position	Ordering Number
Horizontal Surface	HSM-FG6
Vertical Surface	VSM-FG6

Figure 5 – Mounting Brackets



COMPONENT ORDERING LOGIC

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

POWR •SPOT® FLOODLIGHTS

COMPLETE UNIT NUMBER								
PSFA	51	M	5	A	2	4	HDO	P
PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	TRUNION TYPE X	NEMA TYPE BEAM SPREAD HORIZ X VERT X	OPTICAL REFLECTOR XXX	OPTIONS XXX

BALLAST COMPONENT LOGIC						
PSFD	51	M	5	A	2	P
PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	TRUNION TYPE X	OPTIONS XXX

OPTICAL COMPONENT LOGIC		
PSFB	C	HDO
PRODUCT ID. XXXX	NEMA TYPE BEAM SPREAD HORIZ X VERT X	OPTICAL REFLECTOR XXX

OPTICAL COMPONENT LOGIC	MH			HPS			CHOOSE A,B,C,D,E FROM TABLE USING BEAM SPREAD AND LAMP TYPE
	1500W 51	1000W 01	400W 40	1000W 01	400W 40	750W 75	
A	2	2	1	N/A	N/A	N/A	HD2 or GP2
B	3	3	3*	N/A	3	3	GPO or HD0
C	4	4	3	N/A	4	4	
D	5	5	N/A	N/A	5	5	
E	6	6	6	N/A	6	6	

NOTE: *Not standard. Better equivalent distributions exist. N/A = Not Available

POWR •SPOT® FLOODLIGHTS with Glare Reduction

COMPLETE UNIT NUMBER								
PSGV	51	M	5	A	2	CO	GDO	P
PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	TRUNION TYPE X	NEMA TYPE BEAM SPREAD HORIZ X VERT XX	OPTICAL REFLECTOR XXX	OPTIONS XXX

BALLAST COMPONENT LOGIC						
PSFD	51	M	5	A	2	P
PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	TRUNION TYPE X	OPTIONS XXX

OPTICAL COMPONENT LOGIC		
PSGV	C	GPO
PRODUCT ID. XXXX	NEMA TYPE BEAM SPREAD HORIZ X VERT X	OPTICAL REFLECTOR XXX

20-inch(508mm) diameter glare reduction reflector <i>without</i> door	Choose reflector ID. from Ballast and Photometric Selection Table on page F-9.	Decide whether to use General Purpose (GP) or Heavy Duty (HD) Optical
---	--	---

GPO = General Purpose 20-inch (508mm) Diameter Optical	HD0 = Heavy Duty 20-inch (508mm) Diameter Optical
--	---

B = NEMA 3X3
 C = NEMA 4X4
 D = NEMA 5X5
 E = NEMA 6X6
 Note that this is also used as the reflector ID. It appears on a decal on the outside bottom of each reflector and can be seen from the ground.

EXTERNAL GLARE REDUCTION LOUVERS

IVGC-*	PSO
Internal Glare Reduction Louvers and External Visor Mounted on Door Glass	For Powr•Spot Floodlight 20-inch (508mm) reflector

*NOTE: Includes internal louver and external visor. Change "V" to "N" for internal louver only (INGC). Change "I" to "E" for external visor only (EVGC).

FLOODLIGHTING ORDERING LOGIC

F

FLOODLIGHTING DATA

EXPLANATION OF OPTIONS

B = Time Delay Automatically Switched Quartz

Most luminaires can be provided with automatically switched quartz/instant on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same reflector with the metal halide, mercury or HPS lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output.

Caution should be utilized when sizing branch circuits for luminaires with this option since the luminaire will draw additional current during the warm up period while both lamps (quartz and HID) are in operation.

Wiring for the quartz lamp is internal to the ballast assembly and, therefore, the 120 volts to operate the quartz lamp is independent of the lighting system voltage. The 400 and 1000 watt luminaires have a socket for one 250 watt single-ended DC (Double Contact) bayonet base quartz lamp. The 250 watt and lower wattage luminaires have a socket for one 150 watt single-ended DC bayonet base quartz lamp. The lamp is not included.

F = Fusing (not available with multivolt or dual voltage.) If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V or two fuses for 208V, 240V, 480V.

G = Top Trunnion

Allows floodlight mounting with a trunnion above the luminaire, rather than below.

J = Line Surge Protector, Expulsion Type

An expulsion device protects against transient surges caused by lightning or distribution system switching.

K = Knuckle Slipfitter for 1.9-IN. to 2.38-in. (48 to 60mm) OD Pipe

With a knuckle slipfitter, a luminaire is mounted directly to the slipfitter, while with other types of slipfitters, the luminaire is trunnion mounted. The luminaire is aimed by moving the knuckle slipfitter, rather than by adjusting a trunnion. Wiring is internal, giving a neater appearance. This option is available for use on pipe with outside diameters (OD) of 1.9 to 2.38 inches (48 to 60mm).

L = Latch on door or latch optical (when latch is not standard)

With this option, latches are used instead of screws to allow no-tool access.

P = Prewired with 6 feet (2 meters) of #14/3 cord

Luminaire is equipped with six feet (two meters) of prewired #14/3 cord.

Q = Non-time Delay Automatically Switched Quartz

This option is similar to option "B" except the quartz lamp extinguishes once the HID lamp strikes. During a cold start of the HID lamp the quartz lamp will not come on. This option does not draw any additional current in the circuit.

S = Knuckle Slipfitter for 1.9-IN. to 3.0-IN. (48 to 76mm) OD TENON

With other than knuckle slipfitters, a luminaire must be equipped with a trunnion so that it can be aimed. With a knuckle slipfitter, the luminaire is mounted directly to the slipfitter. The luminaire is aimed by moving the knuckle on the slipfitter, rather than by adjusting a trunnion. Wiring is internal, giving a neater appearance. This option is available for use on poles with top tenons.

T = Terminal Board (when terminal board is not standard)

All internal wiring in the luminaire is completed. Internal and external electrical connectors are made on a screw terminal board.

V = Knuckle Wall Mount

Luminaire can be mounted on a wall with a knuckle-type mounting which allows luminaire aiming. See product pages for availability.

Y = Dual wattage units connect higher wattage

Electrical connections for higher-wattage operation are made at the factory for luminaires suitable for operation at either one of two wattages.

EXPLANATION OF OTHER TERMS USED

Multivolt

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages – 120, 208, 240 or 277.

PE Control

A photoelectric (PE) control allows automatic dusk-to-dawn operation of luminaires. With most luminaires, the "PE" choice includes a receptacle only; the PE itself must be ordered separately. See product pages.

PE Control Kit

Some luminaires do not have provision for photoelectric receptacles. In that case, there may be a knockout or other provision for a field-installed PE Control Kit. Consult Accessories Section to determine if kit of appropriate line voltage is available.

Nema beam spread designations

The beam spread of floodlights can be described in degrees or by the NEMA type (Fig. 1). Beam spread designations are based on the angle to either side of the aiming point where candlepower (light output) drops to 10% of its maximum value. Symmetrical floodlights have the same horizontal and vertical beam spreads and can therefore be classified with one NEMA number. Asymmetrical (non-circular) beam spreads have a horizontal and vertical designation (H, V); the horizontal (H) value is always given first.

Beam Spread Degrees	NEMA Type
10 up to 18	1
18 up to 29	2
29 up to 46	3
46 up to 70	4
70 up to 100	5
100 up to 130	6
130 up	7

Figure 1

Mounting Height

Mounting height is generally the distance from the luminaire to the ground. For pole mounted luminaires, this may not correspond to pole height, depending on whether the luminaire is mounted directly on the pole, or on an upsweep arm bracket that adds to mounting height.

UL Listing

Equipment has passed tests by Underwriters' Laboratories and is UL listed (UL 1572 suitable for use in wet locations).

Indoor Lighting

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UTE Unimount™ 150, LB	I-30

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DG6 Duraglow® 1000, HB	I-36
DG5 Duraglow® 400, HB	I-38
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Indoor Lighting

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* Available after printing; please contact factory.

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HB = High Bay, LB = Low Bay

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Gen 5

General Duty

Charger™

Other / Low Bay

HB = High Bay, LB = Low Bay

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Other / Low Bay



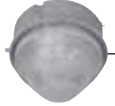
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Product Descriptions

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HB = High Bay, LB = Low Bay

INDOOR LIGHTING — OPTICAL ATTACHMENT DESCRIPTION OFFERINGS

Disconnect Series:

The optical attaches to the ballast housing via a secondary electromechanical sliding disconnect. With this series, the optical is easily installed or removed with the optical disconnect attachment. The socket is located in the removable optical assembly for easy relamping and maintenance.

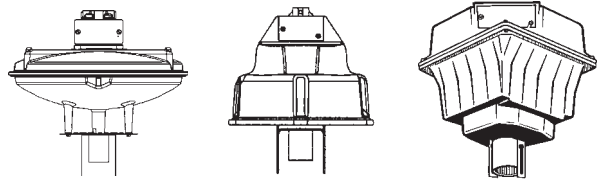
NuVation, Gen 5 / Gen 6



Surface-Mount Series:

The optical directly attaches to the ballast housing via keyhole slots. The 8-position adjustable socket bracket is directly mounted to the NuVation™ housing.

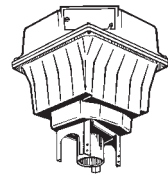
NuVation, Gen 5 / Gen 6, General Duty



Bracket-Mount Series:

Reflector mounting brackets attach to the ballast in five different positions. Socket is fixed.

General Duty



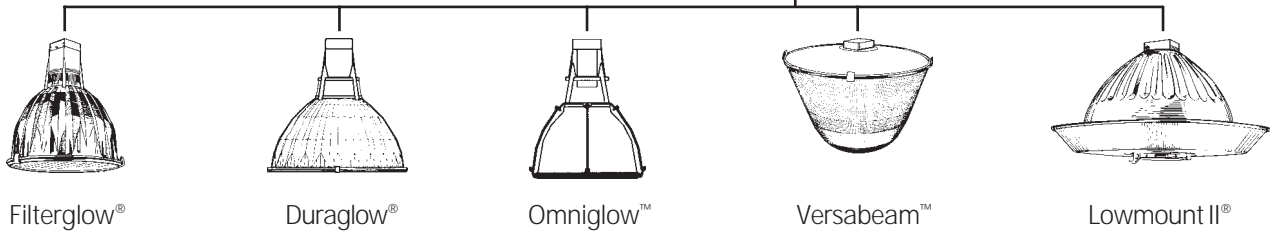
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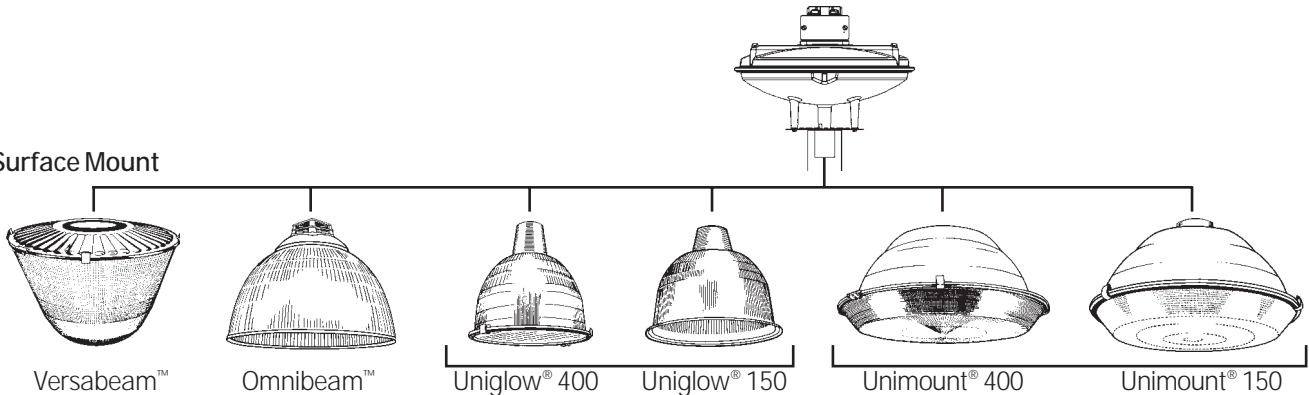
Optical Flexibility

NuVation Electronic Ballast

Sliding Disconnect



Surface Mount

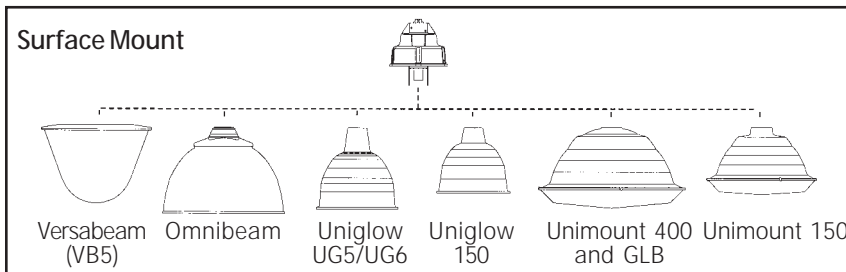
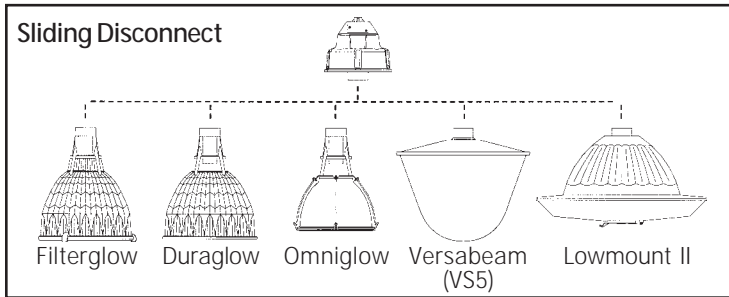


GE Lighting Systems, Inc.
www.gelightingsystems.com

INDOOR LIGHTING – OPTICAL FLEXIBILITY

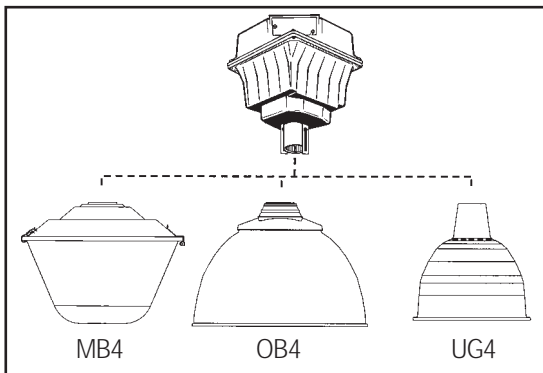
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Gen 5 / Gen 6

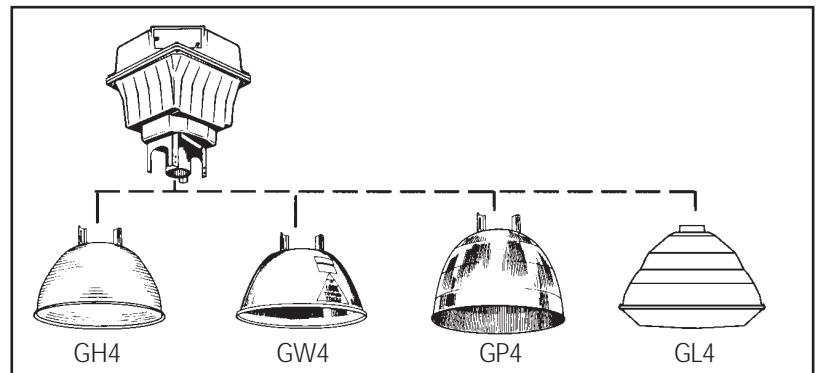


General Duty - Die Cast Ballast

Surface Mount

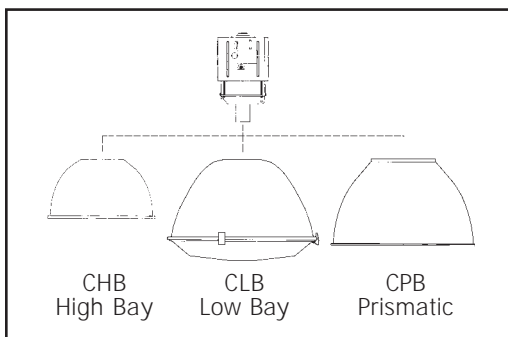


Bracket Mount

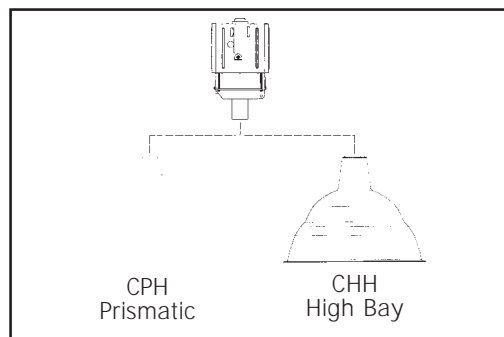


Charger Ballast

Charger 400



Charger 1000



INDOOR LIGHTING



INDOOR LIGHTING — NUVATION BALLAST HOUSING SELECTION

NuVation Electronic HID Ballast System

UL 1598 Listed

Features:

Universal slide-on wiring mounting box provides for multiple mounting options including: 3/4" rigid pendant, flexible pendant, ceiling-mount and thru-feed capability.

Die-cast aluminum housing with white polyester paint for optimized protection.

Rotary wattage selector switch allows for wattage 250, 320, 350, or 400 watts.
Note: Ballast comes with pre-selected wattage choices.

Positive housing seal for optimized component protection.

Ballast with optical post design provides air gap between the optical and ballast, allowing for cooler and improved component reliability.

55°C Ambient Rating

Available with sliding disconnect or surface mount for optical mounting.

INDOOR LIGHTING

Benefits:

Improved lumen maintenance/fewer fixtures

- 13% higher lumen maintenance vs. PMH (.85 LLD vs. .75 LLD)

Fewer ballast losses/more energy efficient

- 50%+ reduction in ballast losses vs. CWA electromagnetic (428 vs. 460 input watts)

Improved lamp performance/better wattage regulation

- +/- 2% lamp wattage change for +/- 10% change in line voltage

120-volt tap for 250-watt emergency-switched quartz lighting

- Same ballast for all units

Simple/flexible offering selection

- Multi-watt (250, 320, 350, 400) — selectable
- Multi-watt (208, 240, 277) — automatic voltage sensing

INDOOR LIGHTING — GEN 5 / GEN 6 BALLAST HOUSING SELECTION

Gen 5 (400 watt and Below), Gen 6 (750 watt and Above)
with *EZ Connect™*

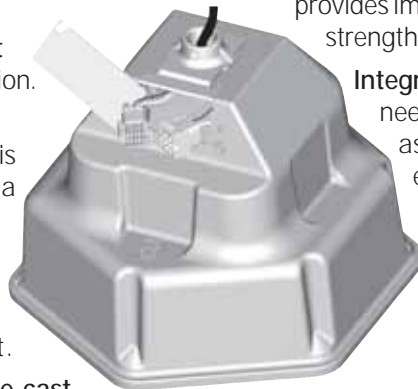
Features

Sliding mounting plate provides for simplified positive mounting. Adapts to rigid or flexible pendent and GE standard hook and loop assemblies.

Large wiring compartment access for ease of installation.

Aesthetic appeal:
The new hexagonal shape is appealing and provides for a symmetrical look when installed. The smooth housing finish is painted with standard gray e-coat or white polyester overcoat.

Single piece heavy-duty die-cast aluminum housing meets stringent mechanical and vibration test requirements.



Integral hook and sliding mounting plate option eliminates two piece assembly and provides improved mechanical strength.



Integral plug-in wiring harness eliminates need for hard wiring of special options such as fusing or modular drop cords. This exclusive feature simplifies field modifications and improves availability.

Interchangeable with existing optical mountings by product family.

Advanced Thermal Performance



Using advanced computer thermal modeling techniques, the overall temperature profile of the ballast housing has been optimized. This design approach minimizes the effects of high temperatures on key components within the lighting fixture. As shown in this thermal image, wedging the ballast against the housing in isolated areas allows the base of the housing to remain substantially cooler. This cooler region inside the ballast housing is where the igniter (starting aid), switched quartz board, bi-level board, and capacitor are located. Minimal temperature rise means greater reliability and longer fixture life.

Maintenance Made Simple

The open construction of the new indoor ballast housing allows for easy maintenance of all the internal components. After removing the bottom plate, the “top down” assembly process allows for components to be easily removed and replaced. This feature decreases the amount of time that is required to maintain the fixture, resulting in lower maintenance costs.

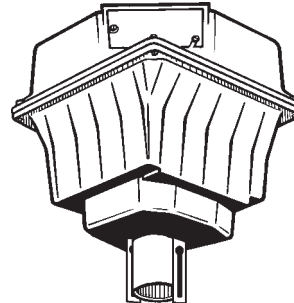


INDOOR LIGHTING — GEN 4 / CHARGER BALLAST HOUSING SELECTION

General Duty Die Cast

Features:

- Locking Hub Mounting:
2-Piece Nut & Hub Mounting Hardware for 3/4" Pendant or Flex Pendant Mounting
- Wiring Compartment Access for Ease of Installation
- Rugged General Duty 2-Piece Aluminum Die Cast Housing
- Standard White Polyester Powder Coat Finish
- Adapts To "Surface Mount" and all "Bracket Mount" series
Opticals for Flexibility in Optical Selection

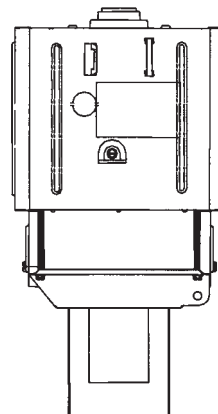


INDOOR LIGHTING

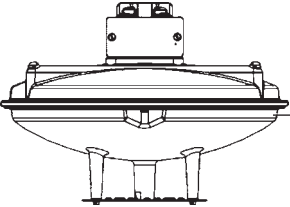
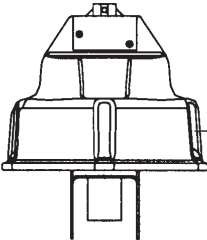
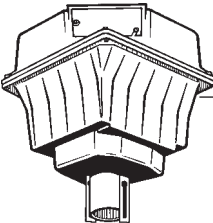
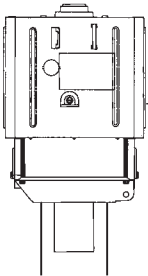
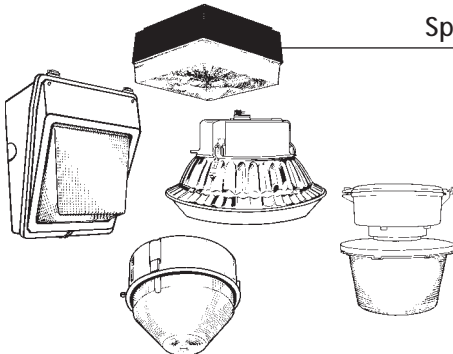
Charger™ Ballast Series

Features:

- Single-Piece twist-on Die Cast Mounting has for 3/4" rigid or flexible pendant
- Optional steel hook for use with eye bolt hanging
- Heavy-duty steel housing with standard white paint finish
- 2-piece Optical Mounting Brackets for Charger™ Optical Series:
Allows for adjustable light distribution
- Charger™ 1000 includes 8-position socket for enhanced range of photometric variation



INDOOR LIGHTING — BALLAST INDEX

PRODUCT NAME	PRODUCT ID.	PAGE
	FGE, DGE, OGE, VSE, VBE, OBE, UGE, UWE, LME, UME, UTE	I-10 thru I-31
	FG5, FG6, DG5, DG6, OG5, OG6, VS5, VB5, OB5, OB6, FP5, UG5, UG6, UW5, LM5, UT5	I-32 thru I-65
	MB4, OB4, GH4, GW4, GP4, GL4	I-66 thru I-79
	CHH, CHB, CPH CPB, CLB	I-80 thru 89
	JVP, JVC, JVD, L4MD, L4MU, L1M, C4S, C1S, MGA, V2G, GGDC, GGDD, MMI, MMN, SCMM, V2IW, SCMA, SBI	I-90 thru I-117

See pages I-1 thru I-3 for total Indoor Product Selection Index

FGE FILTERGLOW™ 400 LUMINAIRE

NUVATION™ Electronic Ballast

High Bay, Enclosed – Optical Sliding Disconnect Series



APPLICATIONS

- For over 20 ft. (6 meter) applications in factories, foundries, machine shops, and other industrial environments.

SPECIFICATION FEATURES:

- 1598 Listed
- Suitable for Damp Location
- Enclosed and gasketed optics
- Clear tempered door-glass lens
- Charcoal filtered optics
- Optical secondary electro-mechanical sliding disconnect
- 55 C ambient, standard
- ALGLAS® finish on faceted reflector.
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Sliding Disconnect"
- Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

FGE	W	40	N	G	E	E7	EX	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
FGE = Filterglow 400 Disconnect optical with Nuvation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps (See pg. I-125) Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	E7 = Enclosed 17-in. Reflector E2 = Enclosed 22-in. Reflector	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

E7 OPTICAL - Enclosed 17 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250,320*	MH,P	1.3	1	176084	E7	EM
320,350,400	MH,P	1.1	11	174961	E7	EX
320,350,400	MH,P	1.3	9	174962	E7	EU
320,350,400	MH,P	1.6	5	177096	E7	EQ
320,350,400	MH,P (Coated)	1.0	11	174955	E7	EX
320,350,400	MH,P (Coated)	1.5	7	174957	E7	ES
320,350,400	MH,P (Coated)	1.9	3	174958	E7	EO
E2 OPTICAL - Enclosed 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH,P	0.7	7	174959	E2	ES
350, 400	MH,P (Coated)	0.7	11	174953	E2	EX

*320 watt, ED28 pulse start MH

FGE FILTERGLOW™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Enclosed – Optical Sliding Disconnect Series

DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on "Optical Flexibility" Page I-4. See References.

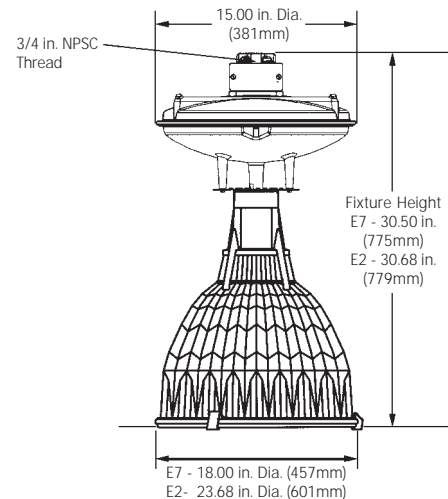
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FITTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	21-36	10-16

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

DGE DURAGLOW® 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open – Optical Sliding Disconnect Series



APPLICATIONS

- For over 20 ft. (6 meter) applications. Assembly, maintenance or storage areas, hangers, recreation centers, and other high bay applications.

SPECIFICATION FEATURES:

- 1598 Listed
- Suitable for Damp Location
- Open, ventilated optical assembly
- Unique optical sliding disconnect
- 55 C ambient, standard
- ALGLAS® finish on faceted reflector.
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Sliding Disconnect"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

DGE	W	40	N	G	E	V7	EX	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
DGE = Duraglow 400 Luminaire Disconnect optical with Nuvation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	V7 = Open and ventilated 17-in. Reflector V2 = Open and ventilated 22-in. Reflector Note: Do not use open opticals with lamps specified for use in enclosed opticals only	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (0.9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (0.9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (0.9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (0.9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz S = Exclusionary mogul base socket for MH open fixtures

PHOTOMETRIC SELECTION TABLE

V7 OPTICAL - Open & Ventilated 17 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
320,350,400	MH,P	1.1	11	174980	V7	EX
320,350,400	MH,P	1.3	9	174981	V7	EU
320,350,400	MH,P	1.6	5	177098	V7	EQ
320,350,400	MH(Coated),P	1.2	11	175933	V7	EX
320,350,400	MH(Coated),P	1.5	9	175320	V7	EU
320,350,400	MH(Coated),P	1.9	5	175930	V7	EQ
V2 OPTICAL - Open & Ventilated 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	0.7	7	174978	V2	ES
400	MH,P	0.9	11	179165	V2	EX

NUVATION INDOOR LIGHTING

1

DGE DURAGLOW® 400 LUMINAIRE

NUVATION™ Electronic Ballast

High Bay, Open – Optical Sliding Disconnect Series

DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

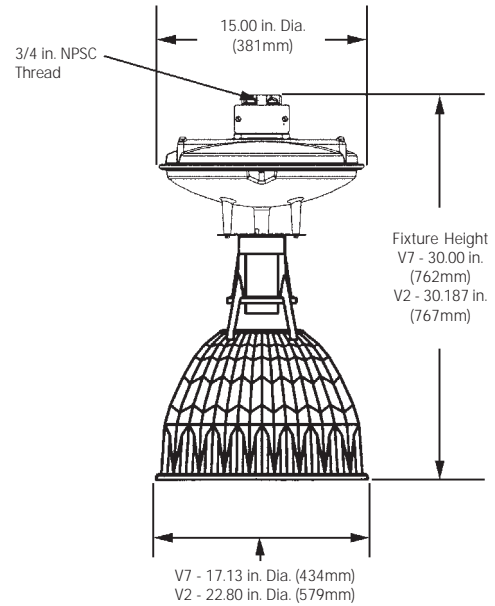
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FITTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kg
	16 - 31	7 - 14

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/- 10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271



OGE OMNIGLOW™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Optical Sliding Disconnect Series



APPLICATIONS

- Assembly lines, inspection areas, production bays, storage areas, warehouses and commercial areas.

SPECIFICATION FEATURES:

- 1598 Listed
- Suitable for Damp Location
- Choice of open/ventilated or enclosed/filtered opticals
- Unique optical sliding disconnect
- 55 C ambient, standard
- Clear tempered door glass lens on enclosed units
- Borosilicate prismatic glass reflector with bright zinc-plated corrosion-resistant steel frame
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Sliding Disconnect"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

OGE	W	40	N	G	E	V4	ES	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OGE = Omniglow 400 Luminaire Disconnect optical with Nuvation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	V4 = Open and ventilated 14-in. V8 = Open and ventilated 18-in. E4 = Enclosed and Filtered 14-in. E8 = Enclosed and Filtered 18-in. Note: Do not use open opticals with lamps specified for use in enclosed opticals only	XX = Select Code from Photometric Selection Table	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required)	Q = Automatic switched quartz S = Exclusionary mogul base socket for MH open fixtures

PHOTOMETRIC SELECTION TABLE

V4 OPTICAL - Open 14 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
320,350,400	MH,P	1.2	7	177978	V4	ES
320,350,400	MH,P	1.7	3	177974	V4	EO
320,350,400	MH(Coated),P	1.6	3	178003	V4	EO
V8 OPTICAL - Open 18 in. Reflector						
320,350,400	MH,P	1.0	J	178757	V8	EJ
320,350,400	MH,P	1.5	G	178755	V8	EG
320,350,400	MH,P	1.7	F	178754	V8	EF
320,350,400	MH(Coated),P	1.7	C	178772	V8	EC
E4 OPTICAL - Enclosed 14 in. Reflector						
250,320*	MH,P	1.4	H	177924	E4	EH
250,320*	MH(Coated),P	1.8	D	177931	E4	ED
320,350,400	MH,P	1.2	7	177905	E4	ES
320,350,400	MH,P	1.4	5	177903	E4	EQ
320,350,400	MH,P	1.6	4	177902	E4	EP
E8 OPTICAL - Enclosed 18 in. Reflector						
320,350,400	MH,P	1.6	F	178764	E8	EF
320,350,400	MH(Coated),P	1.0	H	178779	E8	EH
320,350,400	MH(Coated),P	1.2	F	178780	E8	EF
320,350,400	MH(Coated),P	1.5	D	178777	E8	ED

*320 watt, ED28 pulse start MH

MODULAR PREWIRE

- 41 = ACS with 3 ft (0.9 meter) cord & Hook
- 69 = ACS with 6 ft (1.8 meter) cord & Hook
- 43 = ACS with 3 ft (0.9 meter) cord & Loop
- 70 = ACS with 6 ft (1.8 meter) cord & Loop
- 51 = Sentinel with 3 ft (0.9 meter) cord & Hook
- 71 = Sentinel with 6 ft (1.8 meter) cord & Hook
- 53 = Sentinel with 3 ft (0.9 meter) cord & Loop
- 72 = Sentinel with 6 ft (1.8 meter) cord & Loop
- Note: ACS = Flex 3+
Sentinel = EZ Flex II (FSC)
- F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

OGE OMNIGLOW™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Optical Sliding Disconnect Series

DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

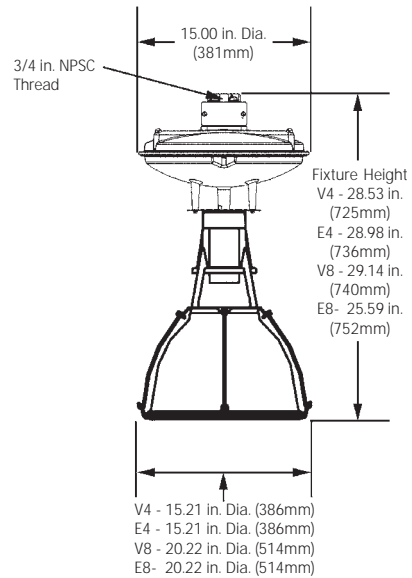
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
Fixture w/14-in. Glass Optical	24-39	11-18
Fixture w/18-in. Glass Optical	30-58	14-26

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

VSE VERSABEAM™ DISCONNECT LUMINAIRE NUVATION™ Electronic Ballast

High Bay or Low Bay Enclosed – Optical Sliding Disconnect Series



APPLICATIONS

- For 15 to 35 ft. (5 to 11 meter) applications requiring high efficiency and the need for low glare with HID lighting.
- Especially useful in difficult assembly and machine situations
- Can be used in place of either high bay or low bay conventional luminaires
- Very effective in sites that have obstructions

SPECIFICATION FEATURES:

- 1598 Listed
- Suitable for Damp Location
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers.
- Enclosed and gasketed optics
- Unique optical sliding disconnect
- Charcoal filtered optics
 - UV stabilized injection molded prismatic refractor for low brightness
 - Refractor with combination of reflecting and refracting prisms for high efficiency and good brightness control.
- 55 C ambient, standard
- ALGLAS® finish on reflector.
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS “Sliding Disconnect”
 - Attractive round ballast housing design with white polyester paint finish
 - Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
 - Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
 - External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
 - Safety chain provisions
 - Mogul base socket – E39 standard

ORDERING NUMBER LOGIC

VSE	W	40	N	G	E	EA	VA	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
VSE = Versabeam Disconnect Luminaire with Nuvation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	EA = Enclosed Acrylic	VA = Fixed	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part “Power Hook”. (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (,9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (,9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (,9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (,9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic				
Wattage	Light Source	Photometric Curve	Optical Code	Photometry Code
250	MH	178508	EA	VA
250	MH	178508	EA	VA
400	MH	178437	EA	VA
320 ED28*	P(MH)	178508	EA	VA
320, 350	P(MH)	178437	EA	VA
400	P(MH)	178437	EA	VA

*320 watt, ED28 pulse start MH

VSE VERSABEAM™ DISCONNECT LUMINAIRE

NUVATION™ Electronic Ballast

High Bay or Low Bay Enclosed – Optical Sliding Disconnect Series

DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

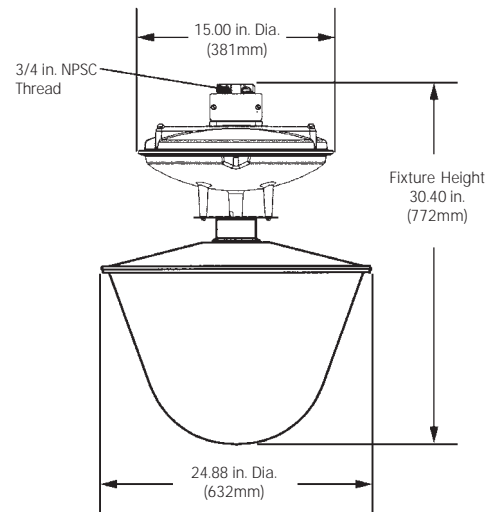
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	23-33	10-15

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271



VBE VERSABEAM™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay or Low Bay, Enclosed – Surface Mount Optical Series

APPLICATIONS

- For 15 to 35 ft. (5 to 11 meter) applications requiring high efficiency and the need for low glare with HID lighting.
- Especially useful in difficult assembly and machine situations
- Can be used in place of either high bay or low bay conventional luminaires
- Very effective in sites that have obstructions

SPECIFICATION FEATURES:

- 1598 Listed
Suitable for Damp Location
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Enclosed and Gasketed optics
- 55 C ambient, standard
- UV stabilized injection molded prismatic refractor for low brightness
- Refractor with combination of reflecting and refracting prisms for high efficiency and good brightness control.
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Optical"
- Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

ORDERING NUMBER LOGIC

VBE	W	40	N	G	E	EA	AA	11	X
PRODUCT IDENT XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY CODE XX	MOUNTING CODE XX	OPTIONS X
VBE = Versabeam Luminaire Surface Mount optical with Nuvation Electronic Ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	EA = Enclosed Acrylic Refractor	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic

Wattage	Light Source	Photometric Curve	Optical Code	Photometry Code
250	MH	178508	EA	AV
400	MH	178437	EA	AA
250	P(MH)	178508	EA	AV
320* ED28	P(MH)	178508	EA	AV
320, 350	P(MH)	178437	EA	AA
400	P(MH)	178437	EA	AA

*320 watt, ED28 pulse start MH
NOTE: Socket position is fixed and not field adjustable.

VBE VERSABEAM™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay or Low Bay, Enclosed – Surface Mount Optical Series

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

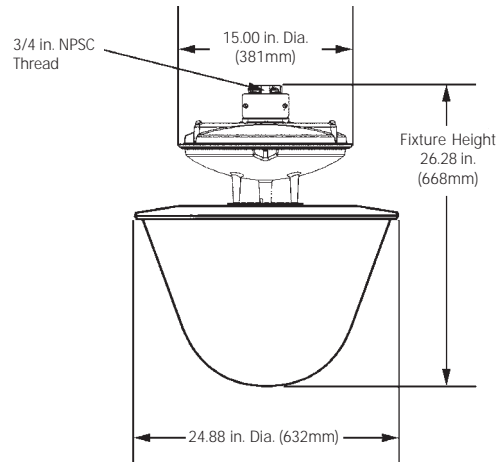
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	26-29	12-13

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

OBE OMNIBEAM™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series



APPLICATIONS

- For over 20-foot (6 meter) applications, assembly lines, inspection areas, production bays, storage areas, warehouses, commercial and retail areas.

SPECIFICATION FEATURES:

- 1598 Listed
- **Suitable for Damp Location**
- Choice of open/ventilated or enclosed opticals with choice of acrylic clear or prismatic lens.
- Prismatic acrylic reflector.
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Opticals"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

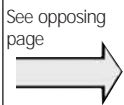
Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

OBE	W	40	N	G	E	V6	AC	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OBE = Omnibeam 400 Luminaire Surface Mount optical with Nuvation Electronic Ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	E2 = Enclosed 22-in. with clear flat acrylic lens. P2 = Enclosed 22-in. with prismatic conical acrylic lens. E6 = Enclosed 26-in. with flat clear acrylic lens. V6 = Open and ventilated 26-in. acrylic.	XX = Select Code from Photometric Selection Table	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (.9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (.9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (.9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (.9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz S = Exclusionary mogul base socket for MH open fixtures.



For Alternative Polymeric Material not shown above see table below.



SPECIAL OPTICAL CODES - ALTERNATIVE POLYMERIC MATERIAL

ADVANCED "ST" HID ACRYLIC - Enhanced Lamp Containment and Reduced Yellowing		
S2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens
T2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Prismatic Conical "ST" HID Acrylic Lens
S6	Advanced "ST" HID Acrylic	Enclosed 26" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens

Note: For above Optical Codes, use corresponding Acrylic Photometry Code listed in Photometric Selection Tables and associated photometric data.

Note: See page T-34 of Product Selection Guide, GEA 12000, for Alternative lens material explanation

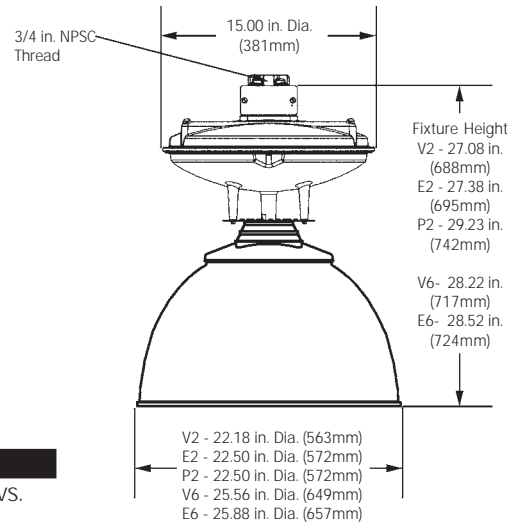
GE Lighting Systems, Inc.

www.gelightingssystem.com

OBE OMNIBEAM™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series

FIXTURE DIMENSIONS



NOTES

See explanation on "Optical Flexibility" Page I-4. See References.

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight Ballast and Optical	lbs 15-30	kgs 7-14
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BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22in. Reflector							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	55	1.3	A	452450	V2	AA
250	MH,P	55	1.5	G	452451	V2	AG
250	MH(Coated),P	55	1.3	A	452456	V2	AA
250	MH(Coated),P	55	1.5	F	452455	V2	AF
320,350,400	MH,P	55	1.6	A	452460	V2	AA
320,350,400	MH(Coated),P	55	1.6	A	452463	V2	AA
V6 OPTICAL - Open and Ventilated 26in. Reflector							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
320,350,400	MH,P	55	1.6	B	178906	V6	AB
320,350,400	MH(Coated),P	55	1.7	C	178976	V6	AC
320,350,400	MH(Coated),P	55	1.6	B	178975	V6	AB
P2, T2 OPTICAL - Enclosed 22in. with Acrylic prismatic conical lens							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40**	1.1	A	452441	P2	AA
250	MH,P	40**	1.5	H	452442	P2	AH
250	MH(Coated),P	40**	1.1	A	452446	P2	AA
250	MH(Coated),P	40**	1.5	G	452445	P2	AG
320*	MH,P	40**	1.6	A	452454	P2	AA
320*	MH(Coated),P	40**	1.5	A	452459	P2	AA
320,350,400	MH(Coated),P	40**	1.8	A	452464	P2	AA

*320 watt is ED28 Pulse Start MH

**Contact Factory for 55C availability

PHOTOMETRIC SELECTION TABLE

E2, S2 OPTICAL - Enclosed 22in. with flat clear Acrylic lens							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40**	1.0	E	452439	E2	AE
250	MH,P	40**	1.4	H	452440	E2	AH
250	MH(Coated),P	40**	1.0	D	452443	E2	AD
250	MH(Coated),P	40**	1.4	H	452444	E2	AH
320*	MH,P	40**	1.3	A	452452	E2	AA
320*	MH,P	40**	1.5	G	452453	E2	AG
320*	MH(Coated),P	40**	1.3	H	452466	E2	AH
350,400	MH,P	40**	1.9	A	452462	E2	AA
350,400	MH(Coated),P	40**	1.6	A	452465	E2	AA
E6, S6 OPTICAL - Enclosed 26in. with flat clear Acrylic lens							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	55	1.6	B	179849	E6	AB
350,400	MH,P	55	1.8	D	179851	E6	AD
350,400	MH(Coated),P	55	1.6	D	179852	E6	AD
350,400	MH(Coated),P	55	1.9	H	179853	E6	AH

*320 watt is ED28 Pulse Start MH

**Contact Factory for 55C availability

NUVATION INDOOR LIGHTING

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Data subject to change without notice

UGE UNIGLOW™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series



APPLICATIONS

- For over 20-foot (6 meter) applications, warehouses, handling, general assembly, manufacturing and other indoor lighting areas where high intensity discharge (HID) light sources are applicable.

SPECIFICATION FEATURES:

- 1598 Listed
- **Suitable for Damp Location**
- Choice of open or enclosed opticals
- Clear tempered door glass lens on enclosed units
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Opticals"
 - Attractive round ballast housing design with white polyester paint finish
 - Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

UGE	W	40	N	G	E	E7	AA	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UGE = Uniglow 400 Luminaire Surface Mount optical with NuVation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	E7 = Enclosed 17-in. Reflector V7 = Open 17-in. Reflector V2 = Open 22-in. Reflector Note: Do not use open opticals with lamps specified for use in enclosed opticals only.	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (.9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (.9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (.9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (.9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz S = Exclusionary mogul base socket for MH open fixtures W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH	1.0	E	177042	V2	AE
V7 OPTICAL - Open 17 in. Reflector						
320,350,400	MH	1.5	A	176791	V7	AA
320,350,400	MH	1.9	E	177108	V7	AE
320,350,400	MH(Coated)	1.3	A	176788	V7	AA
320,350,400	P (MH)	1.5	A	176791	V7	AA
320,350,400	P (MH)	1.9	E	177108	V7	AE
320,350,400	P (MH) Coated	1.3	A	176788	V7	AA
E7 OPTICAL - Enclosed 17 in. Reflector						
250	MH	1.1	G	177105	E7	AG
400	MH	1.5	A	177104	E7	AA
250	P (MH)	1.1	G	177105	E7	AG
320(ED28)*	P (MH)	1.1	G	177105	E7	AG
320, 350	P (MH)	1.5	A	177104	E7	AA
400	P (MH)	1.5	A	177104	E7	AA

*320 watt, ED28 pulse start MH

Use open optical photometrics and reduce values by 10% for enclosed opticals

UGE UNIGLOW™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

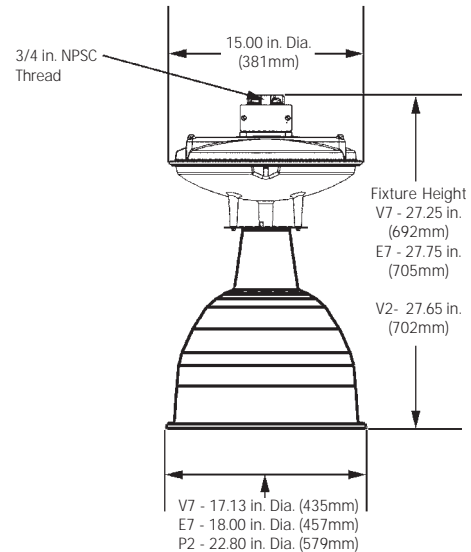
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	15-30	7-14

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271



UWE UNIGLOW™ 150 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series

APPLICATIONS

- For areas where low overhangs, low ceilings or preferred low foot-candle levels restrict the use of larger high wattage units.

SPECIFICATION FEATURES:

- 1598 Listed
- **Suitable for Damp Location**
- Choice of open or enclosed opticals
- Clear tempered door glass lens on enclosed units
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Opticals"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru-feed capability for ease of installation and mounting.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

UWE	W	25	N	G	E	E6	AD	11	X
PRODUCT IDENT XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY CODE XX	MOUNTING CODE XX	OPTIONS X
UWE = Uniglow 150 Luminaire Surface Mount optical with NuVation electronic ballast	W = White Polyester Powder	25 = 250	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	E6 = Enclosed 16-in. Reflector V6 = Open 16-in. Reflector Note: Do not use open opticals with lamps specified for use in enclosed opticals only.	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (.9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (.9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (.9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (.9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz S = Exclusionary mogul base socket for MH open fixtures W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

E6 OPTICAL- Enclosed 16 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH, P	1.7	D	178358	E6	AD
250	MH, P (Coated)	1.9	D	178359	E6	AD

V6 Optical - Open 16 in. Reflector

Note: For V6 optical use E6 curves and increase output by 10%.
C/F = Contact Factory

UWE UNIGLOW™ 150 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

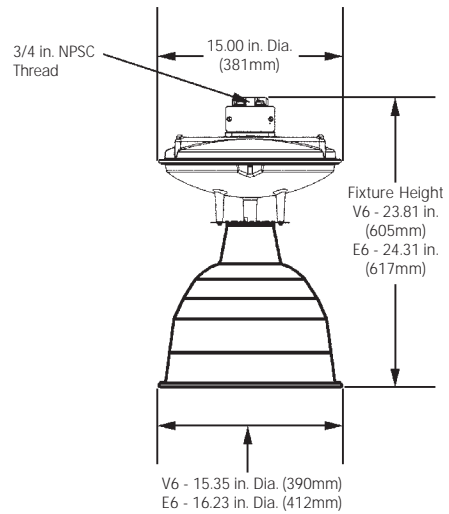
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	13-17	6-8

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating, pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
250	277	276
250	240	272
250	208	271



LME LOWMOUNT® II LUMINAIRE NUVATION™ Electronic Ballast

Low Bay Enclosed – Optical Sliding Disconnect Series

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in factories, canneries, textile, metal, chemical, rubber, food, cement and other industrial applications.

SPECIFICATION FEATURES:

- 1598 Listed
- **Suitable for Damp Location**
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers.
- Enclosed and gasketed optical
- Unique optical sliding disconnect
- Charcoal filtered optics
- UV stabilized injection molded prismatic refractor for low brightness
- Alzak finish on reflector.
- Stick relampable
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS “Sliding Disconnect”
- Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

ORDERING NUMBER LOGIC

LME	W	40	N	G	E	EA	VE	11	X
PRODUCT IDENT XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY CODE XX	MOUNTING CODE XX	OPTIONS X
LME = Lowmount II Disconnect Luminaire with Nuvation electronic ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	EA = Enclosed Acrylic w/Trap Door ES = Enclosed Advanced “ST” Acrylic w/Trap Door Note: See page T-34 for Material Explanation.	VE = Fixed	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part “Power Hook”. (Order Receptacle/Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) MODULAR PREWIRE 41 = ACS with 3 ft (9 meter) cord & Hook 69 = ACS with 6 ft (1.8 meter) cord & Hook 43 = ACS with 3 ft (9 meter) cord & Loop 70 = ACS with 6 ft (1.8 meter) cord & Loop 51 = Sentinel with 3 ft (9 meter) cord & Hook 71 = Sentinel with 6 ft (1.8 meter) cord & Hook 53 = Sentinel with 3 ft (9 meter) cord & Loop 72 = Sentinel with 6 ft (1.8 meter) cord & Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC) F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	Q = Automatic switched quartz W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

EA, EP, ES OPTICAL - Enclosed Acrylic/Polycarbonate with Trap Door

Wattage	Light Source	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH	2.1	177129	EA	VE
320, 350	P (MH)	2.1	177129	EA	VE
400	P (MH)	2.1	177129	EA	VE

Note: Lexan, Polycarbonate lens reduce light levels by 10%
Note: See page T-34 of Product Selection Guide, GEA-12000, for Alternative lens material explanation
Note: Lexan is a registered Trademark of GE Plastic

LME LOWMOUNT® II LUMINAIRE
NUVATION™ Electronic Ballast
Low Bay Enclosed – Optical Sliding Disconnect Series

DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

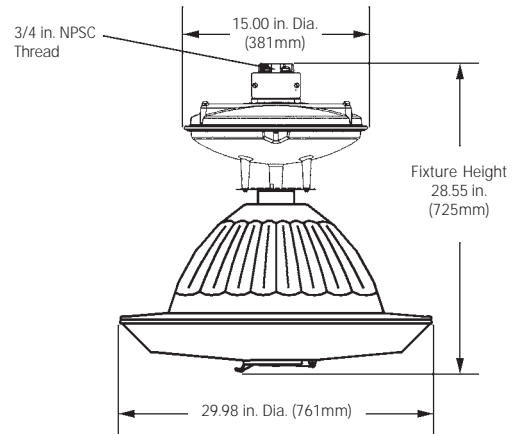
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	23-33	10-15

BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271



UME UNIMOUNT™ 400 LUMINAIRE NUVATION™ Electronic Ballast

Low Bay, Enclosed – Surface Mount Optical Series

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in factories, foundries, canneries, textile, metal, chemical, rubber, food, cement and other industrial applications

SPECIFICATION FEATURES:

- 1598 Listed
Suitable for Damp Location
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- UV stabilized injection molded prismatic refractor for low brightness
- Enclosed and gasketed optics
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Opticals"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

ORDERING NUMBER LOGIC

UME	W	40	N	G	E	EA	AG	11	X
PRODUCT IDENT XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY CODE XX	MOUNTING CODE XX	OPTIONS X
UME = Unimount 400 Luminaire Surface Mount optical with Nuvation Electronic Ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	EA = Enclosed Acrylic Refractor ES = Enclosed Advanced "ST" HID Acrylic Refractor WA = Enclosed Acrylic Refractor with inside of Reflector Painted White WS = Enclosed Advanced "ST" HID Acrylic Refractor with inside of Reflector Painted White	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/ Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required)	Q = Automatic switched quartz W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

EA, ES OPTICAL - Enclosed Optical						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH	1.7	G	177155	EA, ES	AG
400	MH	1.9	A	177013	EA, ES	AA
400	MH(Coated)	1.6	A	177014	EA, ES	AA
250	P (MH)	1.7	G	177155	EA, ES	AG
320(ED28)*	P (MH)	1.7	G	177155	EA, ES	AG
320, 350	P (MH)	1.9	A	177013	EA, ES	AA
400	P (MH)	1.9	A	177013	EA, ES	AA
400	P (MH)(Coated)	1.6	A	177014	EA, ES	AA
400	HPS	1.9	F	177011	EA, ES	AF
WA, WS OPTICAL - Enclosed Optical with White Inside Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH	2.0	H	178672	WA, WS	AH
400	MH	2.0	A	178674	WA, WS	AA
400	MH(Coated)	1.4	A	451384	WA, WS	AA
250	P (MH)	2.0	H	178672	WA, WS	AH
320(ED28)*	P (MH)	2.0	H	178672	WA, WS	AH
320, 350	P (MH)	2.0	A	178674	WA, WS	AA
400	P (MH)	2.0	A	178674	WA, WS	AA
400	P (MH)(Coated)	1.4	A	451384	WA, WS	AA

*320 watt, ED28 pulse start MH

Note: See page T-34 of Product Selection Guide, GEA-12000, for Alternative lens material explanation

MODULAR PREWIRE

- 41 = ACS with 3 ft (9 meter) cord & Hook
- 69 = ACS with 6 ft (1.8 meter) cord & Hook
- 43 = ACS with 3 ft (9 meter) cord & Loop
- 70 = ACS with 6 ft (1.8 meter) cord & Loop
- 51 = Sentinel with 3 ft (9 meter) cord & Hook
- 71 = Sentinel with 6 ft (1.8 meter) cord & Hook
- 53 = Sentinel with 3 ft (9 meter) cord & Loop
- 72 = Sentinel with 6 ft (1.8 meter) cord & Loop
- Note: ACS = Flex 3+
- Sentinel = EZ Flex II (FSC)
- F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

UME UNIMOUNT™ 400 LUMINAIRE
NUVATION™ Electronic Ballast
Low Bay, Enclosed – Surface Mount Optical Series

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

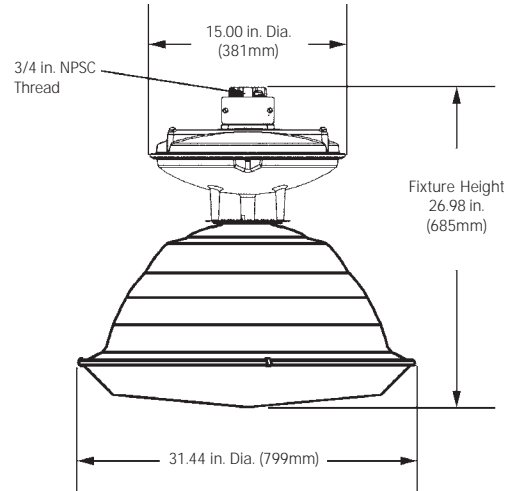
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 27	kgs 12
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BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271



UTE UNIMOUNT™ 150 LUMINAIRE NUVATION™ Electronic Ballast

Low Bay, Enclosed – Surface Mount Optical Series

APPLICATIONS

- For 8-20 ft. (2-6 meter) applications in factories, foundries, canneries, textile, metal, chemical, rubber, food, cement and other industrial applications.

SPECIFICATION FEATURES:

- 1598 Listed
Suitable for Damp Location
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- UV stabilized injection molded prismatic refractor for low brightness
- Enclosed and gasketed optics
- 55 C ambient, standard
- Nuvation™ electronic ballast:
 - Two piece heavy-duty die cast aluminum housing
 - Integral optical mounting design for GELS "Surface Mount Opticals"
 - Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

ORDERING NUMBER LOGIC

UTE	W	25	N	G	E	EA	AG	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UTE = Unimount 150 Luminaire Surface Mount optical with Nuvation Electronic Ballast	W = White Polyester Powder	25 = 250	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic	EA = Enclosed Acrylic Refractor ES = Enclosed Advanced "ST" HID Acrylic Refractor WA = Acrylic Refractor with inside & outside of Reflector Painted White WS = Enclosed Advanced "ST" HID Acrylic Refractor with inside & outside of Reflector Painted White	XX = Select Code Below	11 = Pendant Slide on Box 13 = Pendant Slide on Box with Primary Electrical Disconnect 15 = Prewire with Loop, Cord and Plug part "Power Hook". (Order Receptacle/ Hook Box separately) Discrete Voltages must be specified when ordering cord & plug assemblies below: 31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG 33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required)	Q = Automatic switched quartz W = Wet Location (Available for use with Mountings 11, 13 and 15 only)

PHOTOMETRIC SELECTION TABLE

EA, ES OPTICAL - Enclosed Optical						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH, P	1.7	G	177017	EA,ES	AG
WA, WS OPTICAL - Optical with Inside & Outside Reflector White						
250	MH, P	1.7	G	178824	WA,WS	AG

Note: See page T-34 of Product Selection Guide, GEA-12000, for Alternative lens material explanation

MODULAR PREWIRE

- 41 = ACS with 3 ft (9 meter) cord & Hook
- 69 = ACS with 6 ft (1.8 meter) cord & Hook
- 43 = ACS with 3 ft (9 meter) cord & Loop
- 70 = ACS with 6 ft (1.8 meter) cord & Loop
- 51 = Sentinel with 3 ft (9 meter) cord & Hook
- 71 = Sentinel with 6 ft (1.8 meter) cord & Hook
- 53 = Sentinel with 3 ft (9 meter) cord & Loop
- 72 = Sentinel with 6 ft (1.8 meter) cord & Loop
- Note: ACS = Flex 3+
Sentinel = EZ Flex II (FSC)
- F4 = GELS BayFlex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

UTE UNIMOUNT™ 150 LUMINAIRE
NUVATION™ Electronic Ballast
Low Bay, Enclosed – Surface Mount Optical Series

NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

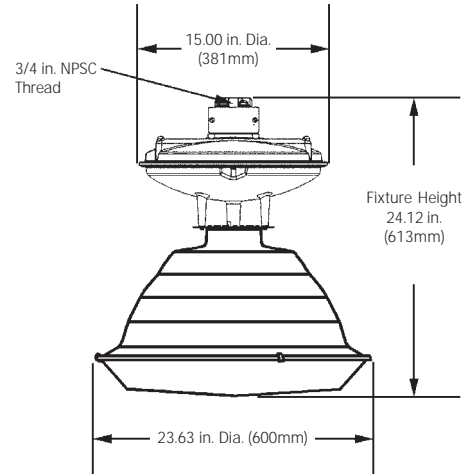
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 24	kgs 11
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BALLAST DATA

- * 13% improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- * 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- * 50% lower ballast losses than typical CWA magnetic HID ballast.
- * Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- * Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- * Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- * Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- * Ballast has an end-of-life detection and shutdown circuit.
- * Minimum start temperature of -30 degrees C.
- * Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- * Five-Year Fixture Failure Warranty.
- * Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for non-consumer equipment.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
250	277	276
250	240	272
250	208	271

NUVATION INDOOR LIGHTING





With **EZ Connect™**

FG6 FILTERGLOW® 1000 LUMINAIRE

High Bay, Enclosed — Optical Sliding Disconnect Series

APPLICATIONS

- For over 30 ft. (9 meter) applications in factories, foundries, machine shops, and other industrial environments

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian Standards and codes
- Enclosed and gasketed optics
- Clear tempered door-glass lens
- Charcoal filtered optics
- Unique optical sliding disconnect
- 55° C ambient, standard
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting
- Adjustable mogul base socket -E39 standard
- ALGLAS® finish on faceted reflector
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast *See Technical Section*
- Pulse start system for metal halide available. *See Page I-155*

ORDERING NUMBER

FG6	G	01	M	0	A	E2	EX	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
FG6 = Filterglow 1000 Luminaire	G = Gray Electro Coat W = White Polyester Powder	40 = 400 75 = 750 01 = 1000	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	E7=Enclosed 17 in. Reflector E2=Enclosed 22 in. Reflector	XX = Select Code Below	11 = Pendant mounting 12 = Pendant mounting for 1000w HPS Multivolt (Not available with EZ Connect 9-pin plug) 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWPBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. Order PED Box (Pendant and Thru Feed Capability) Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details)	A = 65°C maximum ambient B = Time Delay Automatically Switched Quartz D = Severe Duty (meets Wet Location) (For use with Mounting Code 67 only) F = Fusing (Not available with D or W option) G = Secondary Wiring Access 7/8 in. dia. knockout (Not available with D or W option) K = Encapsulated Ballast Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Mogul Base Socket W = Wet Location (For use with Mounting Code 15 and 67 only)

PHOTOMETRIC SELECTION TABLE

E7 OPTICAL - Enclosed 17 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	1.1	11	174961	E7	EX
400	MH,P	1.3	9	174962	E7	EU
400	MH,P	1.6	5	177096	E7	EQ
400	MH,P (Coated)	1.0	11	174955	E7	EX
400	HPS	1.0	5	174965	E7	EQ
400	HPS	1.4	3	174966	E7	EO
E2 OPTICAL - Enclosed 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	0.7	7	174959	E2	ES
750	P	0.8	7	451908	E2	ES
750	P	1.0	L	451909	E2	EL
750	P	1.5	G	451911	E2	EG
1000*	MH	1.0	11	174969	E2	EX
1000*	MH	1.5	7	174970	E2	ES
1000*	MH (Coated)	1.3	7	174968	E2	ES
400	HPS	0.7	2	174963	E2	EN
750	HPS	0.9	1	178164	E2	EM
750	HPS	0.8	7	178163	E2	ES
1000	HPS	1.0	7	175275	E2	ES

*Note: When using 1000 W (PMH) Pulse Metal Halide BT37 lamp, use 400W MH socket positions as listed.

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.

Note: See page I-153 for explanation of Options.

FILTERGLOW INDOOR LIGHTING

I

FG6 FILTERGLOW® 1000 LUMINAIRE

High Bay, Enclosed

DIMENSIONS

- When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.
- For Wet Location dimensions 1.72 inches (44mm) must be added to overall height.
- 750 and 1000 watt with "A", 65C Ambient Option, add 2.50 inches to overall height.

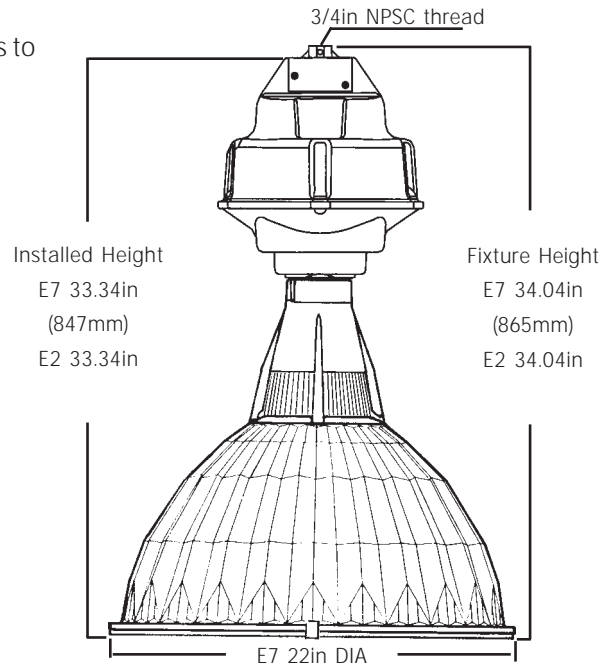
NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
 See Page I-142 for Component Ordering Logic.
 See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 42-52	kg 19-24
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage										
		Multivolt	60HZ					50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380		
400	HPS	A	A,D,G,L,M	A,D,G,L	A,G	A,H	A,H,M	A,H,M	A,H,M	M		
750	HPS	H	A,D*	A,D*	N/A	N/A	N/A	N/A	N/A	N/A		
1000	HPS**	A	A	A	N/A	A	N/A	N/A	N/A	N/A		
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A		
1000	MH	A	A**,D	A,D	N/A	A	A	A	A	A		
PULSE START METAL HALIDE LIGHT SOURCE												
BALLAST SELECTION TABLE												
400	P (MH)	A	A,D,G	A,D,G	A	N/A	A	A	A	N/A		
750	P (MH)	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

NOTE: N/A = Not Available

* Automatic Switch Quartz Option not available with Bilevel

**1000 watt HPS Multivolt not available with EZ Connect 9-pin plug. Order only with special mounting code 12.

***120, 208 and 240 volt available as Multivolt only.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 1000 Watt Metal Halide and HPS available 120, 277 or 347 volt Autoreg only.
3. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
4. Multivolt not available.

FILTERGLOW INDOOR LIGHTING





With **EZ Connect™**

FG5 FILTERGLOW® 400 LUMINAIRE

High Bay, Enclosed — Optical Sliding Disconnect Series

APPLICATIONS

- For over 20 ft. (6 meter) applications in factories, foundries, machine shops, and other industrial environments

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- Enclosed and gasketed optics
- Clear tempered door-glass lens
- Charcoal filtered optics
- Unique optical sliding disconnect
- 55° C ambient, standard
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in diagnostics capability
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting
- Adjustable mogul base socket -E39 standard
- ALGLAS® finish on faceted reflector
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast *See Technical Section*
- Pulse start system for metal halide available. *See Page I-155*

ORDERING NUMBER

FG5	G	40	M	O	A	E7	EX	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
FG5 = Filterglow 400 Luminaire	G = Gray Electro Coat W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	E7=Enclosed 17 in. Reflector E2=Enclosed 22 in. Reflector	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. <i>(Not available with D and W option)</i> 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately <i>(Not available with D and W option)</i> 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug <i>(Order locking receptacle hook box separately)</i> 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details)	A= 65°C maximum ambient* B= Time Delay Automatically Switched Quartz Patrol™ C= Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) D= Severe Duty <i>(meets Wet Location)</i> (For use with Mounting Code 67 only) F= Fusing <i>(Not available with D or W option)</i> K= Encapsulated Ballast <i>(For use with 250 & 400 watt Auto Reg Ballast only)</i> G= Secondary Wiring Access. 7/8 in. dia. knockout <i>(Not available with D or W option)</i> Q= Non-Time Delay Automatically Switched Quartz R= Non-Switched Quartz. T= E40 / European Socket W= Wet Location (For use with Mounting Code 15 and 67 only) Y= Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

E7 OPTICAL - Enclosed 17 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250, 320*	MH, P	1.3	1	176084	E7	EM
350, 400	MH, P	1.1	11	174961	E7	EX
350, 400	MH, P	1.3	9	174962	E7	EU
350, 400	MH, P	1.6	5	177096	E7	EO
350, 400	MH, P (Coated)	1.0	11	174955	E7	EX
350, 400	MH, P (Coated)	1.5	7	174957	E7	ES
350, 400	MH, P (Coated)	1.9	3	174958	E7	EO
250 - 400	HPS	1.0	5	174965	E7	EQ
250 - 400	HPS	1.4	3	174966	E7	EO
E2 OPTICAL - Enclosed 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH, P	0.7	7	174959	E2	ES
350, 400	MH, P (Coated)	0.7	11	174953	E2	EX
250 - 400	HPS	0.7	2	174963	E2	EN

*320 watt, ED28 pulse start MH

MODULAR PREWIRE
 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook
 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook
 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop
 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop
 44 = ACS with 9-ft (2.7 meter) cord & EZ-Loop
 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook
 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook
 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop
 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop

Note: ACS = Flex 3 +
 Sentinel = EZ Flex II (FSC)

F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
 F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
 F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
 F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.
 Note: See page I-153 for explanation of Options.
 *65°C available for 250 and 400 watt Auto Reg Ballast only.

FILTERGLOW INDOOR LIGHTING



FG5 FILTERGLOW® 400 LUMINAIRE

High Bay, Enclosed

DIMENSIONS

- When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.
- For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

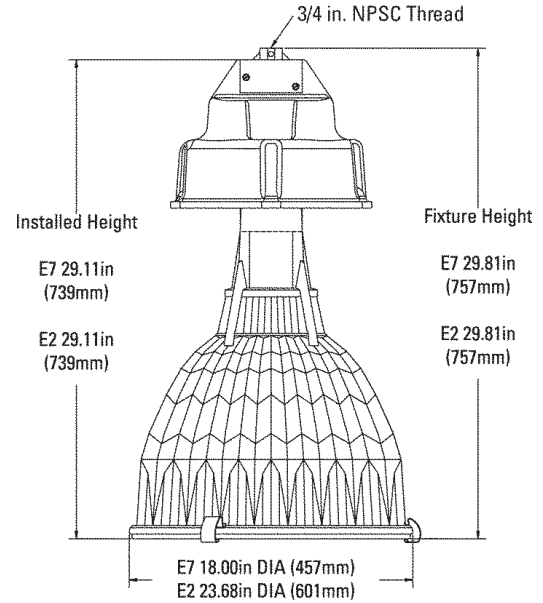
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



FILTERGLOW INDOOR LIGHTING



DATA

Approximate Net Weight Ballast and Optical	lbs 30-45	kg 14-20
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M
250	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation. To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



With
EZ Connect™

DG6 DURAGLOW® 1000 LUMINAIRE

High Bay, Open — Optical Sliding Disconnect Series

APPLICATIONS

- For over 30 ft. (9 meter) applications in factories, foundries, machine shops, and other industrial environments

SPECIFICATION FEATURES

- 1598 Listed
- **Suitable For Damp Locations**
- Listed to Canadian Standards and codes
- Open, ventilated optical assembly
- Unique optical sliding disconnect
- Threaded slide-in mounting adapter for easy mounting
- 55° C ambient, standard
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Adjustable mogul base socket -E39 standard
- ALGLAS® finish on faceted reflector
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
See Technical Section
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER

PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
DG6 = Duraglow 1000 Luminaire	G = Gray Electro Coat W = White Polyester Powder	40 = 400 75 = 750 01 = 1000	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V7 = Open & Ventilated 17 in. Reflector V2 = Open & Ventilated 22 in. Reflector	XX = Select Code Below	11 = Pendant mounting 12 = Pendant mounting for 1000w HPS Multivolt (Not available with EZ Connect 9-pin plug) 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. Order PED Box (Pendant and Thru Feed Capability) Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.)	A = 65°C maximum ambient B = Time Delay Automatically Switched Quartz F = Fusing (Not available with D or W option) G = Secondary Wiring Access 7/8 in. dia. knockout (Not available with D or W option) K = Encapsulated Ballast Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Mogul Base Socket

PHOTOMETRIC SELECTION TABLE

V7 OPTICAL - Open & Ventilated 17 in. Reflector
MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	1.1	11	174980	V7	EX
400	MH,P	1.3	9	174981	V7	EU
400	MH,P	1.6	5	177098	V7	EQ
400	HPS	1.0	5	174984	V7	EQ
400	HPS	1.4	3	174985	V7	EO

V2 OPTICAL - Open & Ventilated 22 in. Reflector
MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	0.7	7	174978	V2	ES
750	P	0.8	7	451975	V2	ES
750	P	1.0	L	451978	V2	EL
750	P	1.4	G	451977	V2	EG
1000*	MH	1.0	11	174988	V2	EX
1000*	MH	1.5	7	174989	V2	ES
1000*	MH (Coated)	1.1	11	175576	V2	EX
1000*	MH (Coated)	1.4	7	175583	V2	ES
400	HPS	0.7	2	174982	V2	EN
750	HPS	0.9	9	178152	V2	EU
750	HPS	1.3	3	178155	V2	EO
1000	HPS	1.1	7	175274	V2	ES

*Note: When using 1000 W (PMH) Pulse Metal Halide BT37 lamp, use 400W MH socket positions as listed.

MODULAR PREWIRE

- 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook
- 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook
- 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop
- 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop
- 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook
- 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook
- 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop
- 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop

Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.

Note: See page I-153 for explanation of Options.

DURAGLOW INDOOR LIGHTING

I

DG6 DURAGLOW® 1000 LUMINAIRE

High Bay, Enclosed

DIMENSIONS

- When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.
- 750 and 1000 watt with "A", 65C Ambient Option, add 2.50 inches to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

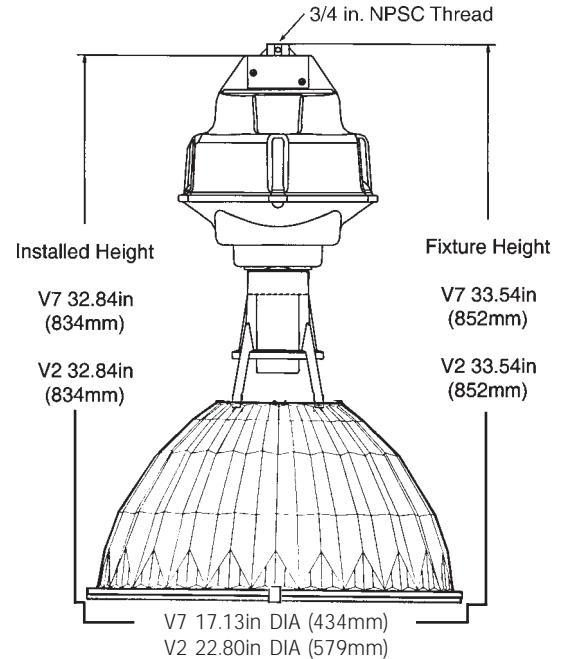
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DURAGLOW INDOOR LIGHTING



DATA

Approximate Net Weight	lbs	lbs
Ballast and Optical	39-51	18-23

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage	60HZ							
			120, 208				50HZ			
			Multivolt	240, 277	347	120 x 347	220	220	230	240
400	HPS	A	A,D,G,L,M	A,D,G,L	A,G	A,H	A,H,M	A,H,M	A,H,M	M
750	HPS	N/A	A,D*	A,D*	N/A	N/A	N/A	N/A	N/A	N/A
1000	HPS**	A	A	A	N/A	A	N/A	N/A	N/A	N/A
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
1000	MH	A	A***,D	A,D	N/A	A	A	A	A	A
PULSE START METAL HALIDE LIGHT SOURCE										
BALLAST SELECTION TABLE										
400	P (MH)	A	A,D,G	A,D,G	A	N/A	A	A	A	N/A
750	P (MH)	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

* Automatic Switch Quartz Option not available with Bilevel

**1000 watt HPS Multivolt not available with EZ Connect 9-pin plug. Order only with special mounting code 12.

***120, 208 and 240 volt available as Multivolt only.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 1000 Watt Metal Halide and HPS available 120, 277 or 347 volt Autoreg only.
3. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
4. Multivolt not available.



With **EZ Connect™**

DG5 DURAGLOW® 400 LUMINAIRE

High Bay, Open — Optical Sliding Disconnect Series

APPLICATIONS

- For over 20 ft. (6 meter) applications assembly, maintenance or storage areas, hangers, recreation centers, and other high bay applications

SPECIFICATION FEATURES

- 1598 Listed
- **Suitable For Damp Locations**
- Listed to Canadian standards and codes
- Open, ventilated optical assembly
- Unique optical sliding disconnect
- Threaded slide-in mounting adapter for easy mounting
- 55° C ambient, standard
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Adjustable mogul base socket -E39 standard
- ALGLAS® finish on faceted reflector
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast *See Technical Section*
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

DG5	G	40	M	0	A	V7	EX	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
DG5 = Duraglow 400 Luminaire	G = Gray Electro Coat W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = Systems 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V7 = Open and ventilated 17-in. Reflector V2 = Open and ventilated 22-in. Reflector Note: Do not use open opticals with lamps specified for use in enclosed opticals only	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.)	A = 65°C maximum ambient* B = Time Delay Automatically Switched Quartz C = Patrol™ Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing K = Encapsulated Ballast (For use with 250 & 400 watt Auto Reg Ballast only) G = Secondary Wiring Access. 7/8 in. dia. knockout Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

V7 OPTICAL - Open & Ventilated 17 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH,P	1.1	11	174980	V7	EX
350, 400	MH,P	1.3	9	174981	V7	EU
350, 400	MH,P	1.6	5	177098	V7	EQ
350, 400	MH(Coated),P	1.2	11	175933	V7	EX
350, 400	MH(Coated),P	1.5	9	175320	V7	EU
350, 400	MH(Coated),P	1.9	5	175930	V7	EQ
250 - 400	HPS	1.0	5	174984	V7	EQ
250 - 400	HPS	1.4	3	174985	V7	EO
250 - 400	HPS	1.9	1	175641	V7	EM
V2 OPTICAL - Open & Ventilated 22 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH,P	0.7	7	174978	V2	ES
400	MH,P	0.9	11	179165	V2	EX
250 - 400	HPS	0.7	2	174982	V2	EN

NOTE: 320 watt available — contact factory

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.
Note: See page I-153 for explanation of Options.
*65°C available for 250 and 400 watt Auto Reg Ballast only.

DURAGLOW INDOOR LIGHTING

I

DG5 DURAGLOW® 400 LUMINAIRE

High Bay, Open

DIMENSIONS

When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

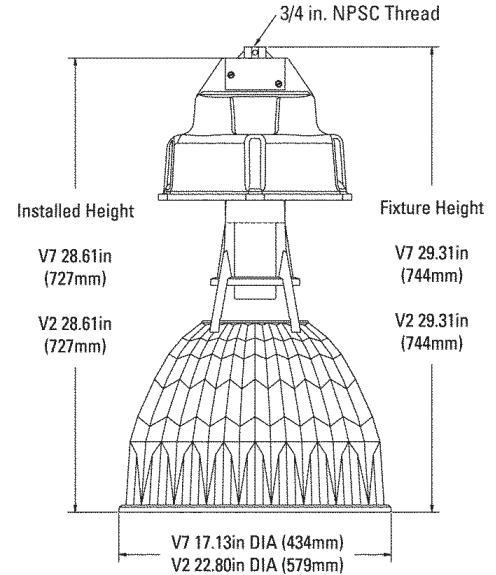
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 25-37	kgs 11-17
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
250	MH	A	ADL	ADL	A	A	A	A	A	N/A	
400	MH	A	ADL	ADL	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



With
EZ Connect™

OG6 OMNIGLOW™ 1000 LUMINAIRE

High Bay, Enclosed or Open — *Optical Sliding Disconnect Series*

APPLICATIONS

- For over 30 ft. (9 meter) applications in assembly lines, inspection areas, production bays, storage areas warehouses and commercial areas

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- Choice of open/ventilated or enclosed/filtered opticals
- Clear tempered door-glass lens on enclosed units
- Unique optical sliding disconnect
- 55° C ambient, standard
- Borosilicate prismatic glass reflector with bright zinc-plated, corrosion-resistant steel frame
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER

OG6	G	01	M	0	A	V8	ES	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OG6 = Omniglow 1000 Luminaire	G = Gray Electro Coat W = White Polyester Powder	40 = 400 75 = 750 01 = 1000	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V4=Open and Ventilated 14 in. Reflector E4=Enclosed and Filtered 14 in. Reflector V8=Open and Ventilated 18 in. Reflector E8=Enclosed and Filtered 18 in. Reflector Note: Do not use open optical with lamps specified for use with enclosed fixtures only.	XX = Select Code from Photometric Selection Table See opposing page.	11 = Pendant mounting 12 = Pendant mounting for 1000w HPS Multivolt (Not available with EZ Connect 9-pin plug) 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. Order PED Box (Pendant and Thru Feed Capability) Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop	A = 65°C maximum ambient B = Time Delay Automatically Switched Quartz F = Fusing G = Secondary Wiring Access 7/8 in. dia. knockout K = Encapsulated Ballast Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Mogul Base Socket Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208, 240, 277	347	120 x 347	220	220	230	240	380	
400	HPS	A	A,D,G,L,M	A,D,G,L	A,G	A,H	A,H,M	A,H,M	A,H,M	M	
750	HPS	N/A	A,D*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1000	HPS**	A	A	A	N/A	A	N/A	N/A	N/A	N/A	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
1000****	MH	A	A***,D	A,D	N/A	N/A	N/A	N/A	N/A	N/A	

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

400	P (MH)	A	A,D,G	A,D,G	A	N/A	A	A	A	N/A
750	P (MH)	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

* Automatic Switch Quartz Option not available with Bilevel

**1000 watt HPS Multivolt not available with EZ Connect 9-pin plug. Order only with special mounting code 12.

***120, 208 and 240 volt available as Multivolt only

****When using 1000 W (PMH) Pulse Metal Halide BT37 lamp, use 400W MH socket position as listed.

Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 1000 Watt Metal Halide and HPS available 120, 277 or 347 volt Autoreg only.
3. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
4. Multivolt not available.

GE Lighting Systems, Inc.

www.gelightingssystem.com

OMNIGLOW INDOOR LIGHTING

I

OG6 OMNIGLOW™ 1000 LUMINAIRE

High Bay, Enclosed or Open

DIMENSIONS

- When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.
- 750 and 1000 watt with "A", 65C Ambient Option, add 2.50 inches to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

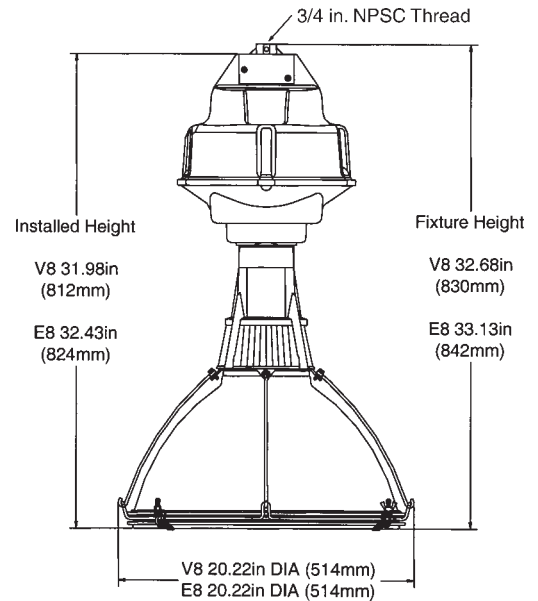
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	37-66	17-30

OMNIGLOW INDOOR LIGHTING



PHOTOMETRIC SELECTION TABLE (From Ordering Number Logic on previous page)

PHOTOMETRIC SELECTION TABLE

V4 OPTICAL - Open and Ventilated 14 in. Reflector
MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	1.2	7	177978	V4	ES
350,400	MH,P	1.7	3	177974	V4	EO
350,400	MH (Coated),P	1.6	3	178003	V4	EO
200,250,400	HPS	1.1	K	177970	V4	EK
200,250,400	HPS	1.5	J	177969	V4	EJ
200,250,400	HPS	2.0	G	177967	V4	EG

E4 OPTICAL - Enclosed 14 in. Reflector

350,400	MH,P	1.2	7	177905	E4	ES
350,400	MH,P	1.4	5	177903	E4	EQ
350,400	MH,P	1.6	4	177902	E4	EP
200,250,400	HPS	1.0	K	177948	E4	EK
200,250,400	HPS	1.7	H	177946	E4	EH

V8 OPTICAL - Open and Ventilated 18 in. Reflector

MH, requires "S" Option EX39 base socket

350,400	MH,P	1.0	J	178757	V8	EJ
350,400	MH,P	1.5	G	178755	V8	EG
350,400	MH,P	1.7	F	178754	V8	EF
350,400	MH (Coated),P	1.7	C	178772	V8	EC
750	P	0.7	K	451979	V8	EK
750	P	1.2	H	451981	V8	EH
750	P	1.4	G	451982	V8	EG
750	P	1.8	E	451983	V8	EE
1000	MH,P	0.8	9	178705	V8	EU
200,250,400	HPS	1.3	A	178727	V8	EA
750	HPS	0.7	K	178746	V8	EK
750	HPS	1.5	C	178745	V8	EC

PHOTOMETRIC SELECTION TABLE

V8 OPTICAL - Open and Ventilated 18 in. Reflector (Lamp extends below reflector)
MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
1000	MH	1.1	7	178707	V8	ES
1000	MH	1.3	6	178708	V8	ER
1000	MH	1.6	4	178710	V8	EP
1000	HPS	0.8	D	178819	V8	ED
1000	HPS	1.3	B	178818	V8	EB

V8 OPTICAL - Open and Ventilated 18 in. Reflector (Reduced envelope MH1000/UBT37)

MH, requires "S" Option EX39 base socket

1000	MH	1.1	G	178720	V8	EG
1000	MH	1.3	F	178719	V8	EF
1000	MH	1.6	E	178718	V8	EE

E8 OPTICAL - Enclosed 18 in. Reflector

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	1.6	F	178764	E8	EF
350,400	MH (Coated),P	1.0	H	178779	E8	EH
350,400	MH (Coated),P	1.2	F	178780	E8	EF
350,400	MH (Coated),P	1.5	D	178777	E8	ED
750	P	0.8	K	451984	E8	EK
750	P	1.3	G	451986	E8	EG
750	P	1.6	F	451987	E8	EF
750	P	1.8	E	451988	E8	EE
1000	MH,P	0.9	9	178786	E8	EU
200,250,400	HPS	1.1	B	178743	E8	EB
200,250,400	HPS	1.4	A	178742	E8	EA
750	HPS	1.1	C	178747	E8	EC

E8 OPTICAL - Enclosed 18 in. Reflector (Reduced envelope MH1000/UBT37)

1000	MH	1.0	G	178789	E8	EG
1000	MH	1.5	E	178790	E8	EE
1000	MH	1.7	D	178791	E8	ED

GE Lighting Systems, Inc.

www.gelightingssystem.com



With **EZ Connect™**

OG5 OMNIGLOW™ 400 LUMINAIRE

High Bay, Enclosed or Open— *Optical Sliding Disconnect Series*

APPLICATIONS

- Assembly lines, inspection areas, production bays, storage areas warehouses and commercial areas

SPECIFICATION FEATURES

- **UL** 1598 Listed **Suitable For Damp Locations**
- **UL** Listed to Canadian standards and codes
- Choice of open/ventilated or enclosed/filtered opticals
- Clear tempered door-glass lens on enclosed units
- Unique optical sliding disconnect
- 55° C ambient, standard
- Borosilicate prismatic glass reflector with bright zinc-plated, corrosion-resistant steel frame
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate
- is available
- Threaded slide-in mounting adapter for easy mounting
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

OG5	G	40	M	0	A	V4	ES	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OG5 = Omniglow 400 Luminaire	G = Gray Electro Coat W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket/Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V4 = Open & Ventilated 14-In. V8 = Open & Ventilated 18-In. E4 = Enclosed and Filtered 14-In. E8 = Enclosed and Filtered 18-In.	XX = Select Code from Photometric Selection Table See opposing page	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC) F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	A = 65°C maximum ambient* B = Time Delay Automatically Switched Quartz C = Patrol™ Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing G = Secondary Wiring Access. 7/8 in. dia. knockout K = Encapsulated Ballast (For use with 250 & 400 watt Auto Reg Ballast only) Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options. * 65°C available for 250 and 400 watt Auto Reg Ballast only.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ			50HZ					
		Multivolt	120, 208, 240, 277, 480	347	120 x 347	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M
250	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A

NOTE: N/A = Not Available
* H is HPF-Linear Reactor available as 277 volt only.
Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

GE Lighting Systems, Inc.

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OG5 OMNIGLOW™ 400 LUMINAIRE

High Bay, Enclosed or Open

DIMENSIONS

When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

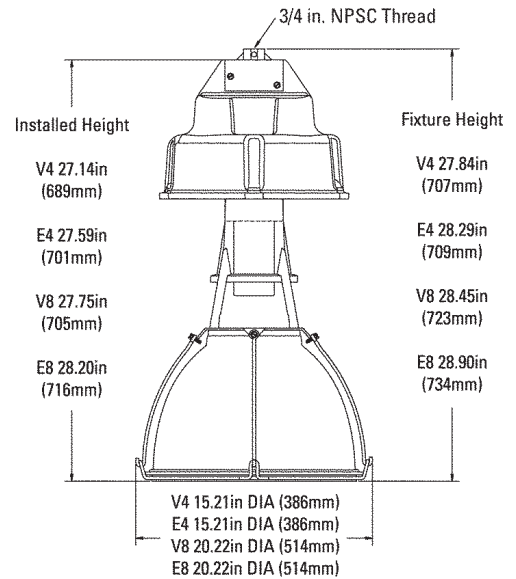
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



OMNIGLOW INDOOR LIGHTING



DATA

Approximate Net Weight	lbs	kg
Ballast and 14-in. Glass Optical 33-48	15-22	
Ballast and 18-in. Glass Optical 39-68	18-31	

PHOTOMETRIC SELECTION TABLE

V4 OPTICAL - Open 14 in. Reflector						
MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	1.2	7	177978	V4	ES
350,400	MH,P	1.7	3	177974	V4	EO
350,400	MH(Coated),P	1.6	3	178003	V4	EO
250,400	HPS	1.1	K	177970	V4	EK
250,400	HPS	1.5	J	177969	V4	EJ
250,400	HPS	2.0	G	177967	V4	EG
V8 OPTICAL - Open 18 in. Reflector						
MH, requires "S" Option EX39 base socket						
350,400	MH,P	1.0	J	178757	V8	EJ
350,400	MH,P	1.5	G	178755	V8	EG
350,400	MH,P	1.7	F	178754	V8	EF
350,400	MH(Coated),P	1.7	C	178772	V8	EC
250,400	HPS	1.3	A	178727	V8	EA
E4 OPTICAL - Enclosed 14 in. Reflector						
250,320*	MH,P	1.4	H	177924	E4	EH
250,320*	MH(Coated),P	1.8	D	177931	E4	ED
350,400	MH,P	1.2	7	177905	E4	ES
350,400	MH,P	1.4	5	177903	E4	EQ
350,400	MH,P	1.6	4	177902	E4	EP
250,400	HPS	1.0	K	177948	E4	EK
250,400	HPS	1.7	H	177946	E4	EH
E8 OPTICAL - Enclosed 18 in. Reflector						
350,400	MH,P	1.6	F	178764	E8	EF
350,400	MH(Coated),P	1.0	H	178779	E8	EH
350,400	MH(Coated),P	1.2	F	178780	E8	EF
350,400	MH(Coated),P	1.5	D	178777	E8	ED
250,400	HPS	1.1	B	178743	E8	EB
250,400	HPS	1.4	A	178742	E8	EA

*320 watt, ED28 pulse start MH

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 - 400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



VS5 VERSABEAM™ DISCONNECT LUMINAIRE

High Bay or Low Bay, Enclosed —
Optical Sliding Disconnect Series

With
EZ Connect™

APPLICATIONS

- For 15 to 35 ft. (5 to 11 meter) applications requiring high efficiency and the need for low glare with HID lighting
- Especially useful in difficult assembly and machine situations
- Can be used in place of either high bay or low bay conventional luminaires
- Very effective in sites that have obstructions

SPECIFICATION FEATURES

- **UL** 1598 Listed **Suitable For Damp Locations**
- **UL** 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- **UL** Listed to Canadian standards and codes
- Enclosed and gasketed optics
- Unique optical sliding disconnect
- Charcoal filtered optics
- 55° C ambient, standard
- UV stabilized injection molded prismatic refractor for low brightness

- Refractor with combination of reflecting and refracting prisms for high efficiency and good brightness control
- ALGLAS® finish on faceted reflector
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast

- housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting
- Mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

VS5	G	40	M	0	A	EA	VA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
VS5 = Versabeam Disconnect Luminaire	G = Gray Electro Coat W = White Polyester Powder	17 = 175 20 = 200 25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	EA = Enclosed Acrylic ES = ST Acrylic	VA = FIXED	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. <i>(Not available with D or W option)</i> 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately. <i>(Not available with D and W option)</i> 15 = Prewire with EZ Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug <i>(Order locking receptacle hook box separately.)</i> 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop	A = 65°C maximum ambient* B = Time Delay Automatically Switch Quartz Patrol™ Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) D = Severe Duty (meets Wet Location) (For use with Mounting Code 67 only) F = Fusing <i>(Not available with D or W option)</i> G = Secondary Wiring Access. 7/8 in. dia. knockout <i>(Not available with D or W option)</i> K = Encapsulated Ballast <i>(For use with 250 & 400 watt Auto Reg Ballast only)</i> Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Socket W = Wet Location (For use with Mounting Code 15 and 67 only) Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic				
Wattage	Light Source	Photometric Curve	Optical Code	Photometry Code
175	P(MH)	178508	EA	VA
250	MH	178508	EA	VA
400	MH	178437	EA	VA
320 ED28*	P(MH)	178508	EA	VA
350	P(MH)	178437	EA	VA
400	P(MH)	178437	EA	VA
200	HPS	178438	EA	VA
250	HPS	178438	EA	VA
400	HPS	178438	EA	VA

*320 watt, ED28 pulse start MH

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.

Note: See page I-153 for explanation of Options.

*65°C available for 250 watt Ballast only.

VS5 VERSABEAM™ DISCONNECT LUMINAIRE

High Bay or Low Bay, Enclosed

DIMENSIONS

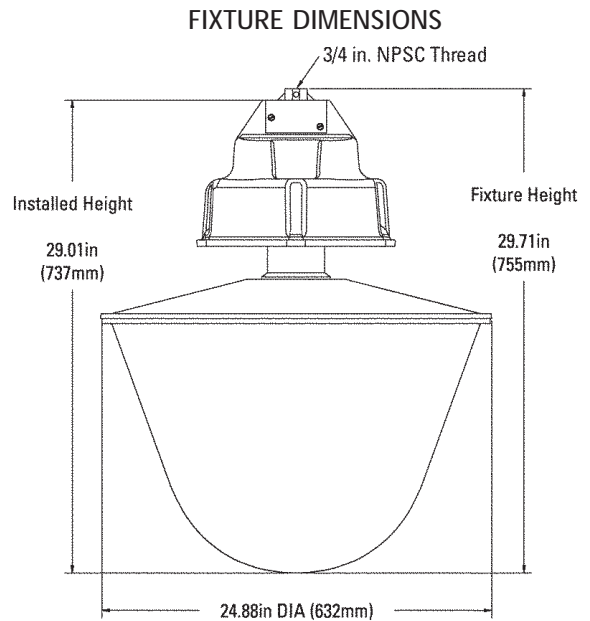
- When optical assembly contains a quartz socket (switched or non-switched), an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.
- For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
 See Page I-142 for Component Ordering Logic.
 See Page I-153 for Explanation of Options and Other Terms Used.



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	32-42	15-19

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
200	HPS	M	M	N/A	N/A	N/A	A	A	A	N/A	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
310	HPS	M	M	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
175	MH	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE											
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.

VERSABEAM INDOOR LIGHTING





VB5 VERSABEAM™ LUMINAIRE

High Bay or Low Bay, Enclosed — *Surface Mount Optical Series*

APPLICATIONS

- For 15 to 35 ft. (5 to 11 meter) applications requiring high efficiency and the need for low glare with HID lighting
- Especially useful in difficult assembly and machine situations
- Can be used in place of either high bay or low bay conventional luminaires
- Very effective in sites that have obstructions

SPECIFICATION FEATURES

- **UL** 1598 Listed **Suitable For Damp Locations**
- **UL** 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- **UL** Listed to Canadian standards and codes
- Enclosed and gasketed optics
- Mag-Reg = 40°C GEN 5
Mag-Reg = 55°C GEN 6
- UV stabilized injection molded prismatic refractor for low brightness
- Refractor with combination of reflecting and refracting prisms for high efficiency and good brightness and control
- In-line EZ Connect™ plug in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- ALGLAS® finish on faceted reflector
- Single casting integral hook/ loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting
- Mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

VERSABEAM INDOOR LIGHTING

ORDERING NUMBER LOGIC

VB5	G	40	M	0	A	EA	AA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICALS	PHOTOMETRY	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
VB5 = Versabeam Luminaire	G = Gray Electro Coat W = White Polyester Powder	17 = 175 25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	EA = Enclosed Acrylic Refractor	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. <i>(Not available with D or W option)</i> 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately <i>(Not available with D and W option)</i> 15 = Rewire with EZ Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug <i>(Order locking receptacle hook box separately.)</i>	A = 65°C maximum ambient* B = Time Delay Automatically Switch Quartz C = Patrol™ Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing G = Secondary Wiring Access. 7/8 in. dia. knockout K = Encapsulated Ballast <i>(For use with 250 & 400 watt Auto Reg Ballast only)</i> Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Socket Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic				
Wattage	Light Source	Photometric Curve	Optical Code	Photometry Code
175	MH	178508	EA	AV
250	MH	178508	EA	AV
400	MH	178437	EA	AA
250	P(MH)	178508	EA	AV
320* ED28	P(MH)	178508	EA	AV
350	P(MH)	178437	EA	AA
400	P(MH)	178437	EA	AA
250	HPS	178438	EA	AG
400	HPS	178438	EA	AG

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)	Note: See page I-128 for Accessory Index and Descriptions.
F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)	Note: See page I-153 for explanation of Options.
F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)	*65°C available for 250 watt Ballast only.
F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)	
F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	

*320 watt, ED28 pulse start MH
NOTE: Socket position is fixed and not field adjustable.

VB5 VERSABEAM™ LUMINAIRE

High Bay or Low Bay, Enclosed

REFERENCES

See Page I-128 for start of Accessories.
 See Page I-142 for Component Ordering Logic.
 See Page I-153 for Explanation of Options and Other Terms Used.

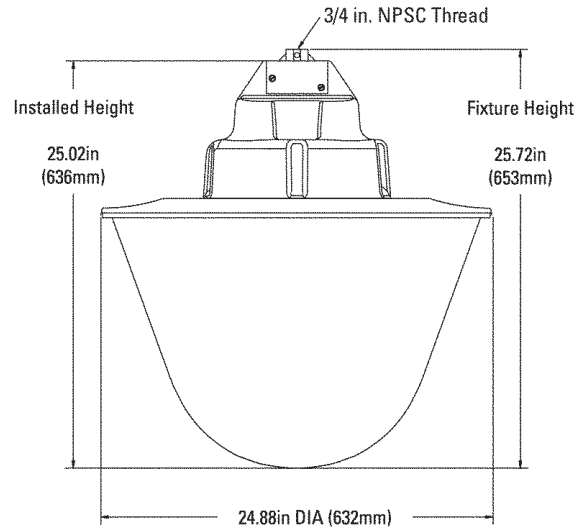
NOTES

Previous Versabeam optical assembly VB-EA will not fit Generation 5 ballast housing assembly. Contact factory for adapter.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

FIXTURE DIMENSIONS



VERSABEAM INDOOR LIGHTING



DATA

Approximate Net Weight Ballast and Optical	lbs 35-38	kgs 16-17
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
175	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D	A,D	A	N/A	N/A	N/A	N/A	N/A	

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.
- Mag-Reg ballast has a maximum Ambient of 40°C for GEN 5 ballast housing and maximum Ambient of 55°C for GEN 6 ballast housing.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



OB6 OMNIBEAM™ 1000 LUMINAIRE

High Bay, Enclosed or Open — Surface Mount Optical Series

With
EZ Connect™

APPLICATIONS

- For over 30-foot (9 meter) applications, assembly lines, inspection areas, production bays, storage areas, warehouses, commercial and retail areas.

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- Open/ventilated or enclosed opticals with choice of clear or prismatic lens
- Acrylic reflector
- Enclosed 26 inch available for wet location - Contact factory
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
 - Symmetrical heavy-duty die-cast aluminum ballast housing with white polyester paint finish
 - Single casting integral hook/loop and mounting plate is available
 - Threaded slide-in mounting adapter for easy mounting
- 55° C ambient, standard, except as noted in Photometric Table
- Adjustable mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

OMNIBEAM INDOOR LIGHTING

ORDERING NUMBER

OB6	W	01	M	0	A	V6	AC	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
OB6 = Omnibeam 1000 Luminaire	W = White Polyester Powder	40 = 400 75 = 750 01 = 1000	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V6 = Open and Ventilated 26 in. Reflector Note: Do not use open opticals with lamps specified for use with enclosed fixtures only.	XX = Select Code Below	11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. Order PED Box (Pendant and Thru Feed Capability) Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately)	B = Time Delay Automatically Switched Quartz F = Fusing G = Secondary Wiring Access 7/8 in. dia. knockout K = Encapsulated Ballast Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Mogul Base Socket Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

V6 OPTICAL- Open and Ventilated 26 in. Reflector
MH, requires "S" Option EX39 base socket

Wattage	Light Source	Max Amb Temp C	Spacing Criteria	Socket Position	Photometry Curve #	Photometric Code
750	P	40	1.3	A	451994	AA
750	P	40	1.5	C	451995	AC
750	P	40	1.7	E	451996	AE
750	P	40	1.9	G	451997	AG
1000*	MH (Coated)	40	2.0	C	450759	AC
750	HPS	55	1.3	A	450748	AA
750	HPS	55	1.7	E	450752	AE

*Note: When using 1000 W (PMH) Pulse Metal Halide BT37 lamp, use 400W MH socket positions as listed on OB5 Omnibeam 400 Luminaire, page I-51.

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

GE Lighting Systems, Inc.

www.gelightingssystem.com

OB6 OMNIBEAM™ 1000 LUMINAIRE

High Bay, Enclosed or Open

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

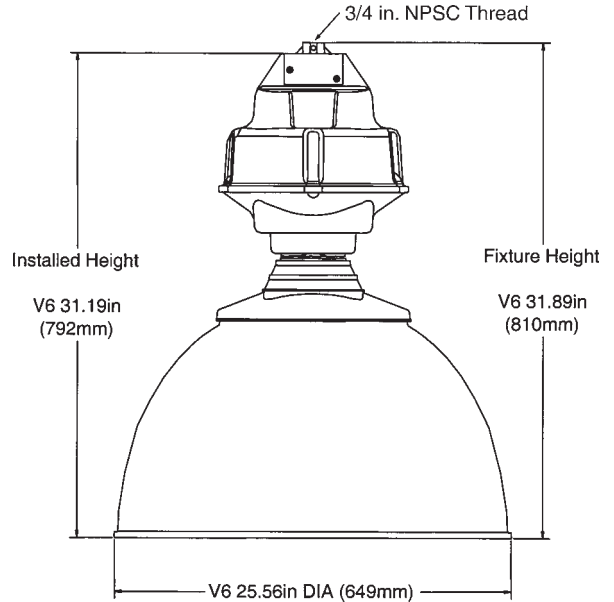
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	35	16

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		Multivolt	60HZ					50HZ			
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
400	HPS	A	A,D,G,L,M	A,D,G,L	A,G	A,H	A,H,M	A,H,M	A,H,M	M	
750	HPS	N/A	A,D*	A,D*	N/A	N/A	N/A	N/A	N/A	N/A	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
1000	MH	A	A**D	A,D	N/A	A	A	A	A	A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
400	P (MH)	A	A,D,G	A,D,G	A	N/A	A	A	A	N/A	
750	P (MH)	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

NOTE: N/A = Not Available

* Automatic Switch Quartz Option not available with Bilevel

**120, 208 and 240 volt available as Multivolt only.

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 1000 Watt Metal Halide available 120, 277 or 347 volt Autoreg only.
3. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
4. Multivolt not available.

OMNIBEAM INDOOR LIGHTING





With
EZ Connect™

OB5 OMNIBEAM™ 400 LUMINAIRE

High Bay, Enclosed or Open — *Surface Mount Optical Series*

APPLICATIONS

- For over 20-foot (6 meter) applications, assembly lines, inspection areas, production bays, storage areas, warehouses, commercial and retail areas.

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- Open/ventilated or enclosed opticals with choice of clear or prismatic lens
- Acrylic reflector
- Enclosed 26 inch available for wet location - Contact factory
- In-line EZ Connect™ plug-in

adapter port allows for:

- hook/loop, cord & NEMA plug
- plug-in modular wiring systems
- plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Threaded slide-in mounting adapter for easy mounting

- 55° C ambient, standard, except as noted in Photometric Table
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

OMNIBEAM INDOOR LIGHTING

ORDERING NUMBER LOGIC

OB5	W	40	M	0	A	V6	AC	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OB5 = Omnibeam 400 Luminaire	W = White Polyester Powder	17 = 175 25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Sart MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg See Ballast Next Page	E2=Enclosed 22 in. with clear flat acrylic lens E6=Enclosed 26 in. with clear flat acrylic lens P2=Enclosed with prismatic conical lens 22 in. Optical V6=Open and ventilated V2= open 22 in. acrylic	XX = Select Code from Photometric Selection Table See Photometric table on next page. →	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (<i>Order locking receptacle hook box separately.</i>) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC) F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	B = Time Delay Automatically Switched Quartz Patrol™ C = Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing G = Secondary Wiring Access. 7/8 in. dia. knockout K = Encapsulated Ballast (<i>For use with 250 & 400 watt Auto Reg Ballast only</i>) Q = Non-Time Delay Automatically Switched Quartz R = Non-Switch Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

SPECIAL OPTICAL CODES - ALTERNATIVE POLYMERIC MATERIALS

ADVANCED "ST" HID ACRYLIC - Enhanced Lamp Containment and Reduced Yellowing

S2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens
T2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Prismatic Conical "ST" HID Acrylic Lens
S6	Advanced "ST" HID Acrylic	Enclosed 26" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens

Note: For above Optical Codes, use corresponding Acrylic Photometry Code listed in Photometric Selection Tables and associated photometric data.
Note: See page T-34 for Alternative lens material explanation

GE Lighting Systems, Inc.

www.gelightingssystem.com

OB5 OMNIBEAM™ 400 LUMINAIRE

High Bay, Enclosed or Open

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ			50HZ					
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	AH	A,H,M	A,H	A,H	M
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	AH	A,H,M	A,H,M	A,H,M	M
175	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	ADL	A,D,L	A	A	A	A	A	N/A
400	MH	A	ADL	A,D,L	A	A	A	A	A	N/A

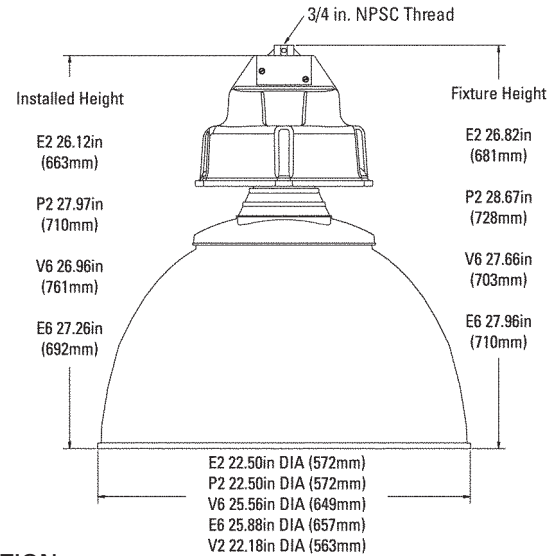
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:
 1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
 2. 1000 Watt Metal Halide and HPS available 120, 277 or 347 volt Autoreg only.
 3. 208, 240, and 480 volts require CWI ballast. Use "G" when available.
 Contact factory for all others.
 4. Multivolt not available.

FIXTURE DIMENSIONS



"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.

DATA

Approximate Net Weight Ballast and Optical	lbs	kg
	37	17

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
 See Page I-142 for Component Ordering Logic.
 See Page I-153 for Explanation of Options and Other Terms Used.

PHOTOMETRIC SELECTION TABLE

(From Ordering Number Logic on previous page)

PHOTOMETRIC SELECTION TABLE

E2, S2 OPTICAL - Enclosed 22in. with flat clear Acrylic lens

Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
175	MH,P	55	1.0	D	452431	E2	AD
175	MH,P	55	1.5	H	452432	E2	AH
175	MH(Coated),P	55	1.0	C	452435	E2	AC
175	MH(Coated),P	55	1.4	H	452436	E2	AH
250	MH,P	40**	1.0	E	452439	E2	AE
250	MH,P	40**	1.4	H	452440	E2	AH
250	MH(Coated),P	40**	1.0	D	452443	E2	AD
250	MH(Coated),P	40**	1.4	H	452444	E2	AH
320*	MH,P	40**	1.3	A	452452	E2	AA
320*	MH,P	40**	1.5	G	452453	E2	AG
320*	MH(Coated),P	40**	1.3	H	452466	E2	AH
350, 400	MH,P	40**	1.9	A	452462	E2	AA
350, 400	MH(Coated),P	40**	1.6	A	452465	E2	AA
250-400	HPS	40**	1.5	A	452448	E2	AA

E6, S6 OPTICAL - Enclosed 26in. with flat clear Acrylic lens

350,400	MH,P	55	1.6	B	179849	E6	AB
350,400	MH,P	55	1.8	D	179851	E6	AD
350,400	MH(Coated),P	55	1.6	D	179852	E6	AD
350,400	MH(Coated),P	55	1.9	H	179853	E6	AH
250-400	HPS	55	1.3	E	179861	E6	AE
250-400	HPS	55	1.4	E	179862	E6	AE
250-400	HPS	55	1.5	G	179863	E6	AG

*320 watt is ED28 Pulse Start MH
 **Contact Factory for 55C availability

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22in. Reflector, MH, requires "S" Option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
175,250	MH,P	55	1.3	A	452450	V2	AA
175,250	MH,P	55	1.5	G	452451	V2	AG
175,250	MH(Coated),P	55	1.3	A	452456	V2	AA
175,250	MH(Coated),P	55	1.5	F	452455	V2	AF
350, 400	MH,P	55	1.6	A	452460	V2	AA
350, 400	MH(Coated),P	55	1.6	A	452463	V2	AA
250, 400	HPS	55	1.5	A	452447	V2	AA

V6 OPTICAL - Open and Ventilated 26in. Reflector MH, requires "S" Option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH,P	55	1.6	B	178906	V6	AB
350, 400	MH(Coated),P	55	1.7	C	178976	V6	AC
350, 400	MH(Coated),P	55	1.6	B	178975	V6	AB
250-400	HPS	55	1.3	E	178905	V6	AE
250-400	HPS	55	1.7	G	178969	V6	AG

P2, T2 OPTICAL - Enclosed 22in. with Acrylic prismatic conical lens

175	MH,P	55	1.1	A	452434	P2	AA
175	MH,P	55	1.6	G	452433	P2	AG
175	MH(Coated),P	55	1.2	A	452437	P2	AA
175	MH(Coated),P	55	1.5	F	452438	P2	AF
250	MH,P	40**	1.1	A	452441	P2	AA
250	MH,P	40**	1.5	H	452442	P2	AH
250	MH(Coated),P	40**	1.1	A	452446	P2	AA
250	MH(Coated),P	40**	1.5	G	452445	P2	AG
320*	MH,P	40**	1.6	A	452454	P2	AA
320*	MH(Coated),P	40**	1.5	A	452459	P2	AA
350, 400	MH(Coated),P	40**	1.8	A	452464	P2	AA
250-400	HPS	55	1.7	A	452449	P2	AA

*320 watt is ED28 Pulse Start MH
 **Contact Factory for 55C availability

GE Lighting Systems, Inc.

www.gelightingssystem.com

OMNIBEAM INDOOR LIGHTING





FP5 FOOD-PRO™ LUMINAIRE

High Bay, Enclosed

With
EZ Connect™

APPLICATIONS

- For 20-foot (6 meter) or higher food processing applications and other areas requiring hosedown capability.

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Wet Locations.**
- Listed to Canadian standards and codes
- Will withstand 1000 p.s.i. hosedown spray
- Enclosed optical
- Acrylic reflector
- Polypropylene reflector cover
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - Symmetrical heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- 55° C ambient, standard
- Threaded hub for easy mounting
- Adjustable mogul base
- socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast.
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

FP5	W	40	M	0	A	D6	AA	67	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX = Food-Pro	X = White Polyester Powder	XX = 25 = 250 32 = 320 35 = 350 40 = 400	X = M = MH S = HPS P = Pulse Start MH	X = 60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	D6 = Enclosed 26 in. acrylic w/ reflector cover	XX = Select Code Below	XX = Select Code Below 67 = Pendant, Nut and Hanger Hub Mounting (See pages I-153 and I-154 for details) 35 = Prewired with grommated hook, 3-ft (0.9 meters) #16/3 Cord, and Nema Plug Daniel Woodhead Watertight* (not available in 347 and 480 volt)	X = B = Time Delay Automatically Switch Quartz C = Patrol™ Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) K = Encapsulated Ballast (For use with 250 & 400 watt Auto Reg Ballast only) Q = Non-Time Delay Automatically Switch Quartz R = Non Switch Quartz. T = E40 / European Socket

* Watertight is a registered trademark of Woodhead Industries, Inc.

PHOTOMETRIC SELECTION TABLE

D6 OPTICAL - Enclose 26 in. Reflector with Dust Cover						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH	1.3	H	179881	D6	AH
400	MH	1.4	A	179508	D6	AA
400	MH	1.6	C	179510	D6	AC
400	MH	1.8	F	179513	D6	AF
250	P(MH)	1.3	H	179881	D6	AH
320(ED28)	P(MH)	1.3	H	179881	D6	AH
350	P(MH)	1.4	A	179508	D6	AA
350	P(MH)	1.6	C	179510	D6	AC
350	P(MH)	1.8	F	179513	D6	AF
400	P(MH)	1.4	A	179508	D6	AA
400	P(MH)	1.6	C	179510	D6	AC
400	P(MH)	1.8	F	179513	D6	AF
250	HPS	1.3	E	179504	D6	AE
250	HPS	1.5	G	179506	D6	AG
250	HPS	1.6	H	179507	D6	AH
400	HPS	1.3	E	179504	D6	AE
400	HPS	1.5	G	179506	D6	AG
400	HPS	1.6	H	179507	D6	AH

*320 watt, ED28 pulse start MH

FOOD-PRO INDOOR LIGHTING

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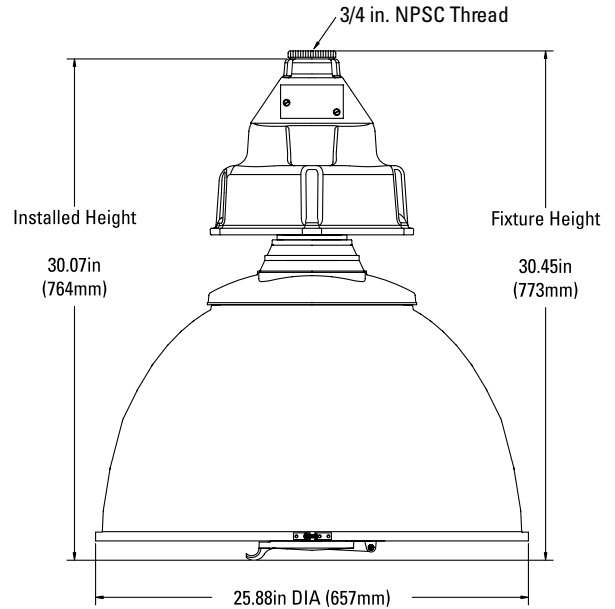
FP5 FOOD-PRO™ LUMINAIRE

High Bay, Enclosed

REFERENCES

See Page I-128 for start of Accessories.
 See Page I-142 for Component Ordering Logic.
 See Page I-153 for Explanation of Options and Other Terms Used.
 See Page H-34 for FoodPro II-UL844 and NSF certified offering.

FIXTURE DIMENSIONS



FOOD-PRO INDOOR LIGHTING

DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	37	17

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
250	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
250	P (MH)	A	A,D,G,M	A,G	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D,G,M	A,G	N/A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with AutomaticSwitch Quartz Option.

CANADIAN NOTES:
 1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
 2. 208, 240, and 480 volts require CWI ballast. Use "G" when available.
 Contact factory for all others.
 3. Multivolt not available.
 4. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



With **EZ Connect™**

UG6 UNIGLOW® 1000 LUMINAIRE

High Bay, Enclosed or Open — *Surface Mount Optical Series*

APPLICATIONS

- For over 30-foot (9 meter) applications, warehouses, handling, general assembly, manufacturing and other indoor lighting areas where high intensity discharge (HID) light sources are preferable

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Damp Locations**
- Listed to Canadian standards and codes
- Open or enclosed optical assembly (clear tempered door lens on enclosed unit)
- Threaded slide-in mounting adapter for easy mounting
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- 55° C ambient, standard
- Alzak[†] finish on aluminum faceted reflector
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical. Magnapack available for ballast.
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

UG6	G	01	M	0	A	V2	AA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UG6 = Uniglow 1000 Luminaire	G = Gray Electro Coat W = White Polyester Powder	40 = 400 75 = 750 01 = 1000	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	V2 = Open & Ventilated 22-in. Reflector E2 = Enclosed 22 in. Reflector V7 = Open & Ventilated 17-in. Reflector E7 = Enclosed 17 in. Reflector	XX = Select Code from Photometric Selection Table See opposing page	XX = Select Code Below 11 = Pendant mounting 12 = Pendant mounting for 1000w HPS Multivolt (Not available with EZ Connect 9-pin plug) 13 = Provision for Slide on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. (Not available with D or W option) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately (Not available with D and W option) 15 = Rewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hug Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details)	A = 65°C maximum ambient B = Time Delay Automatically Switched Quartz F = Fusing (Not available with W option) G = Secondary Wiring Access. 7/8 in. dia. knockout (Not available with W option) H = Charcoal Filtering Gasket (not available with wet location) K = Encapsulated Ballast Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Mogul Base Socket W = Wet Location (Not available with H) (For enclosed opticals only) (For use with Mounting Code 15 and 67 only)

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ			50HZ					
	Multivolt	120, 208, 240, 277, 480	120 x 347	220	220	230	240	380		
400	HPS	A	A,D,G,L,M	A,D,G,L	AG	AH	A,H,M	A,H,M	A,H,M	M
750	HPS	N/A	A,D*	A,D*	N/A	N/A	N/A	N/A	N/A	N/A
1000	HPS**	A	A	A	N/A	A	N/A	N/A	N/A	N/A
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A
1000	MH	A	A***,D	A,D	N/A	A	A	A	A	A

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

Wattage	Light Source	A,D,G	A,D,G	A	N/A	A	A	A	N/A
400	P (MH)	A	A,D,G	A	N/A	A	A	A	N/A
750	P (MH)	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available
 * Automatic Switch Quartz Option not available with Bilevel
 ***1000 watt HPS Multivolt not available with EZ Connect 9-pin plug. Order only with special mounting code 12.
 ***120, 208 and 240 volt available as Multivolt only.

MODULAR PREWIRE

- 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook
- 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook
- 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop
- 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop
- 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook
- 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook
- 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop
- 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

CANADIAN NOTES:

1. "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
2. 1000 Watt Metal Halide and HPS available 120, 277 or 347 volt Autoreg only.
3. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
4. Multivolt not available.

Note: See page I-128 for Accessory Index and Descriptions.

Note: See page I-153 for explanation of Options.

UG6 UNIGLOW® 1000 LUMINAIRE

High Bay, Enclosed or Open

DIMENSIONS

For Wet Location dimensions 1.72 inches (44mm) must be added to overall height.

750 and 100 watt with "A", 65C Ambient Option, add 2.50 inches to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

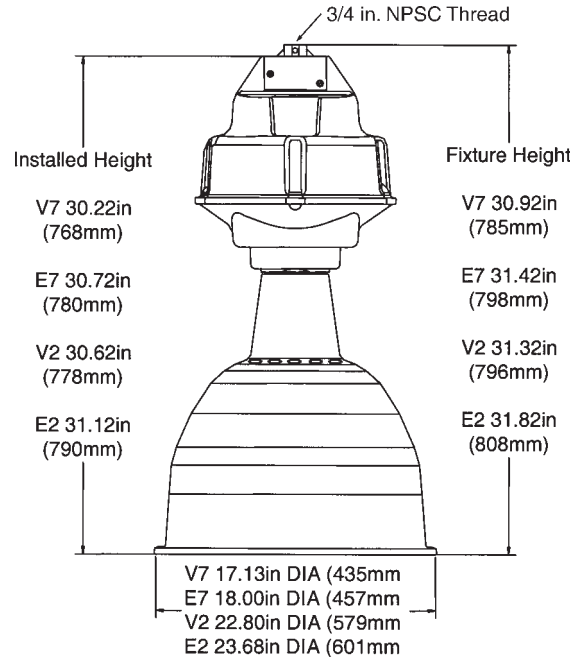
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



UNIGLOW INDOOR LIGHTING

DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	21-56	10-25

PHOTOMETRIC SELECTION TABLE (From Ordering Number Logic on previous page)

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open and Ventilated 22 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH, P	1.0	E	177042	V2	AE
1000	MH	2.0	A	177003	V2	AA
1000	MH(Coated)	1.2	A	176789	V2	AA
750	P	1.0	B	452002	V2	AB
400	HPS	0.7	F	177004	V2	AF
1000	HPS	1.1	A	176790	V2	AA
V7 OPTICAL - Open and Ventilated 17 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH, P	1.5	A	176791	V7	AA
400	MH, P	1.9	E	177108	V7	AE
400	MH(Coated), P	1.3	A	176788	V7	AA
400	HPS	1.0	A	176782	V7	AA
400	HPS	1.5	F	176775	V7	AF
400	HPS	1.7	H	176777	V7	AH
1000	HPS	1.6	A	177115	V7	AA

CF = Contact Factory

PHOTOMETRIC SELECTION TABLE

E2 OPTICAL - Enclosed 22 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
750	P	1.0	A	452008	E2	AA
1000*	MH	1.8	A	177139	E2	AA
750	HPS	0.8	E	178175	E2	AE
750	HPS	0.9	H	178176	E2	AH
E7 OPTICAL - Enclosed 17 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH, P	1.5	A	177104	E7	AA
400	HPS	1.0	A	177120	E7	AA
400	HPS	1.5	F	177119	E7	AF
400	HPS	1.7	H	177122	E7	AH

*Note: When using 1000 W (PMH) Pulse Metal Halide BT37 lamp, use 400W MH socket positions as listed.



UG5 UNIGLOW® 400 LUMINAIRE

High Bay, Enclosed or Open — Surface Mount Optical Series

With **EZ Connect™**

APPLICATIONS

- For over 20-foot (6 meter) applications, warehouses, handling, general assembly, manufacturing and other indoor lighting areas where high intensity discharge (HID) light sources are applicable

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations.
- Listed to Canadian standards and codes
- Open or enclosed optical assembly (clear tempered door lens on enclosed unit)
- Threaded slide-in mounting adapter for easy mounting
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- 55° C ambient, standard
- Alzak® finish on aluminum faceted reflector
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast.
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

UNIGLOW INDOOR LIGHTING

ORDERING NUMBER LOGIC

UG5	G	40	M	0	A	E7	AA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UG5 = Uniglow 400 Luminaire	G = Gray Electro Coat W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	E7 = Enclosed 17 in. Reflector V2 = Open 22-in. Reflector V7 = Open 17-in. Reflector Note: Do not use open opticals with lamps, specified for use in enclosed opticals only.	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. (Not available with W option) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately (Not available with W option) 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details)	A = 65°C maximum ambient* B = Time Delay Automatically Switched Quartz C = "Patrol" Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing (Not available with W option) G = Secondary Wiring Access. 7/8 in. dia. knockout (Not available with W option) H = Charcoal Filtering Gasket (not available with wet location) K = Encapsulated Ballast (For use with 250 & 400 watt Auto Reg Ballast only) Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket W = Wet Location (Not available with H) (For enclosed opticals only) (Use with Mounting Codes 15 & 67 only) Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options. *65°C available for 250 and 400 watt Auto Reg Ballast only.

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250,400	HPS	0.7	F	177004	V2	AF
400	MH	1.0	E	177042	V2	AE
V7 OPTICAL - Open 17 in. Reflector MH, requires "S" Option EX39 base socket						
400	MH	1.5	A	176791	V7	AA
400	MH	1.9	E	177108	V7	AE
400	MH(Coated)	1.3	A	176788	V7	AA
400	P (MH)	1.5	A	176791	V7	AA
400	P (MH)	1.9	E	177108	V7	AE
400	P (MH) Coated	1.3	A	176788	V7	AA
250,400	HPS	1.0	A	176782	V7	AA
250,400	HPS	1.5	F	176775	V7	AF
250,400	HPS	1.7	H	176777	V7	AH
E7 OPTICAL - Enclosed 17 in. Reflector						
250	MH	1.1	G	177105	E7	AG
400	MH	1.5	A	177104	E7	AA
250	P (MH)	1.1	G	177105	E7	AG
320(ED28)*	P (MH)	1.1	G	177105	E7	AG
350	P (MH)	1.5	A	177104	E7	AA
400	P (MH)	1.5	A	177104	E7	AA
250,400	HPS	1.0	A	177120	E7	AA
250,400	HPS	1.5	F	177119	E7	AF
250,400	HPS	1.7	H	177122	E7	AH

*320 watt, ED28 pulse start MH
Use open optical photometrics and reduce values by 10% for enclosed opticals

MODULAR PREWIRE
 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook
 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook
 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop
 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop
 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook
 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook
 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop
 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
 F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
 F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
 F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

GE Lighting Systems, Inc.

www.gelightingssystem.com

UG5 UNIGLOW® 400 LUMINAIRE

High Bay, Enclosed or Open

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

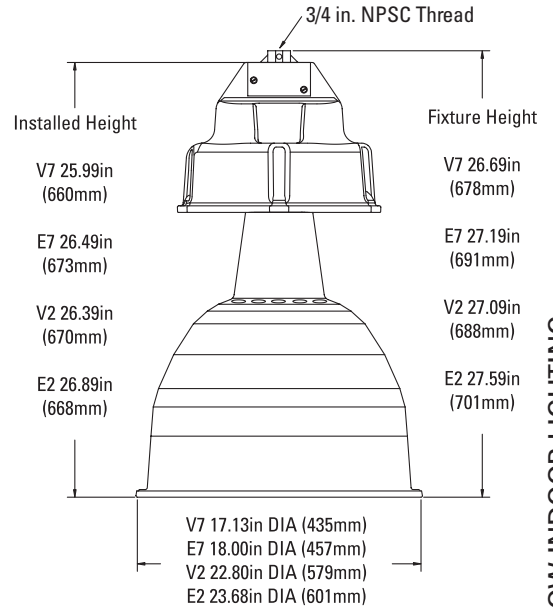
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



UNIGLOW INDOOR LIGHTING



DATA

Approximate Net Weight	lbs	lbs	lbs
Ballast and Optical	23-58	23-58	10-26

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
250	MH	A	ADL	ADL	A	A	A	A	A	N/A	
400	MH	A	ADL	ADL	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
250	P (MH)	A	A,D,G,M	A,D,G	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D,G,M	A,D,G	N/A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available
 * H is HPF-Linear Reactor available as 277 volt only.
 Cannot be used with AutomaticSwitch Quartz Option.

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available.
Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.
 To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



With
EZ Connect™

UW5 UNIGLOW® 150 LUMINAIRE

High Bay, Enclosed or Open — Surface Mount Optical Series

APPLICATIONS

- For areas where low overhangs, low ceilings or preferred low footcandle levels restrict the use of larger high wattage units

SPECIFICATION FEATURES

- **UL** 1598 Listed
Suitable For Damp Locations
- **UL** Listed to Canadian standards and codes
- Open or enclosed optical assembly (clear tempered door lens on enclosed unit)
- 55° C ambient, standard
- Threaded slide-in mounting adapter for easy mounting
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Single casting integral hook/loop and mounting plate is available
- Alzak† finish on aluminum faceted reflector
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical. Magnapack available for ballast.
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

UW5	G	25	M	0	A	E6	AD	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UW5 = Uniglow 150 Luminaire	G = Gray Electro Coat W = White Polyester Powder	07 = 70 10 = 100 15 = 150 (55v) 17 = 175 25 = 250	M = MH K = Ceramic MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) H = HPF Reactor or Lag K = Hot restart (Contact factory)	E6 = Enclosed 16 in. Reflector V6 = Open 16 in. Reflector Note: Do not use open opticals with lamps specified for use in enclosed opticals only.	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. (Not available with D or W option) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately (Not available with D and W option) 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details)	B = Time Delay Automatically Switch Quartz Patrol™ C = Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing (Not available with W option) G = Secondary Wiring Access. 7/8 in. dia. knockout (Not available with W option) H = Charcoal filtering gasket (Not available with Wet Location) K = Encapsulated Ballast (For use with 250 watt Auto Reg Ballast only) Q = Non-Time Delay Automatically Switch Quartz R = Non-Switched Quartz. S = Exclusionary mogul base socket for MH open fixtures E40 / European Mogul Base Socket T = Wet Location (Not available with H) (For enclosed opticals only) (For use with Mounting Code 15 and 67 only) Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

E6 OPTICAL- Enclosed 16 in. Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
70, 100	MH, CMH	1.7	D	178451	E6	AD
150	MH	1.7	D	178451	E6	AD
175	MH, P	1.7	D	178358	E6	AD
175	MH, P (Coated)	1.9	D	178359	E6	AD
250	MH, P	1.7	D	178358	E6	AD
250	MH, P (Coated)	1.9	D	178359	E6	AD
70	HPS	1.7	D	178361	E6	AD
100	HPS	1.7	D	178361	E6	AD
150(55V)	HPS	1.7	D	178361	E6	AD
V6 Optical - Open 16 in. Reflector MH, requires "S" Option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
70	HPS	1.8	D	178360	V6	AD
100	HPS	1.8	D	178360	V6	AD
150(55V)	HPS	1.8	D	178360	V6	AD

MODULAR PREWIRE
 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook
 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook
 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop
 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop
 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook
 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook
 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop
 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop

Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.
Note: See page I-153 for explanation of Options.

C/F = Contact Factory

UNIGLOW INDOOR LIGHTING



UW5 UNIGLOW® 150 LUMINAIRE

High Bay, Enclosed or Open

DIMENSIONS

For Wet Location dimensions 1.72 inches (44mm) must be added to overall height..

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

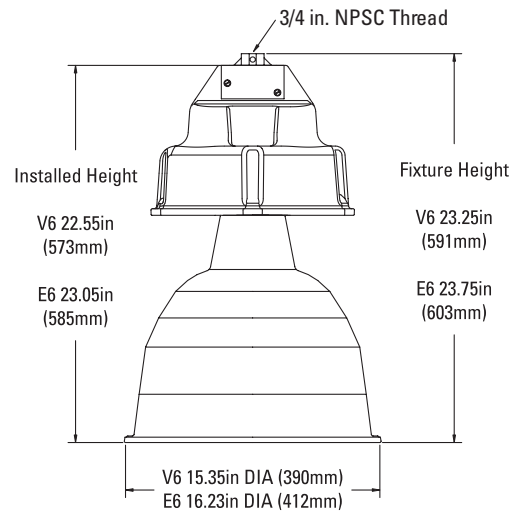
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	22-26	10-12

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
70	HPS	H,K***	G,H,K***	G,H	H	N/A	N/A	N/A	N/A	N/A
100	HPS	H,K***	G,H,K***	G,H	H	N/A	N/A	N/A	N/A	N/A
150(55V)	HPS	H,K***	G,H,K***	G,H	H	N/A	N/A	N/A	N/A	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
250	MH	A	AD	AD	A	A	A	A	A	N/A

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A,D,G	A,D,G	A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

* Medium base socket (Lamp not included)

** 480 Volt not available

*** Hot Restrike supplied in Large Ballast Housing. Contact Factory.

CANADIAN NOTES:

- "A", Autoreg, "D", Bilevel Autoreg and "H" HPS/HPF available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



With
EZ Connect™

LM5 LOWMOUNT® II LUMINAIRE

Low Bay, Enclosed — Optical Sliding Disconnect Series

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in factories, foundries, canneries and textile, metal, chemical, rubber, food, cement, and other industrial applications

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- 55° C ambient, standard
- Threaded slide-in mounting adapter for easy mounting
- Unique optical sliding disconnect
- In-line EZ Connect™ plug-in

- adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- UV stabilized injection molded prismatic refractor for low brightness
- Enclosed with activated charcoal filter

- Alzak¹ finish on reflector
- Stick relampable
- Safety chain provisions
- Base-up Mogul base socket -E39 standard allowing maximum efficiency
- Shipped as components: Ballast, Optical
- Magnapack available for ballast.
- Pulse start system for metal halide available. See Page I-155

ORDERING NUMBER LOGIC

LM5	G	40	M	0	A	EA	VE	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
LM5 = Lowmount II Luminaire	G = Gray Electro Coat W = White Polyester Powder	35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bilevel Autoreg (See Technical Section) G = CANADIAN Mag-Reg (Grounded Socket Shell) H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg	EA = Enclosed Acrylic w/TrapDoor ES = Enclosed Advanced "ST" HID Acrylic w/ trap door Note: See page T-34 for Material explanation	VE = Fixed	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. (Not available with W option) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately (Not available with W option) 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop	X B = Time Delay Automatically Switched Quartz Patrol™ C = Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing (Not available with W option) G = Secondary Wiring Access. 7/8 in. dia. knockout (Not available with W option) K = Encapsulated Ballast (For use with 250 & 400 watt Auto Reg Ballast only) Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Socket W = Wet Location (For use with Mounting Code 15 and 67 only) Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

EA, EP, ES OPTICAL - Enclosed Acrylic with Trap					
Wattage	Light Source	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH	2.1	177129	EA	VE
350	P (MH)	2.1	177129	EA	VE
400	P (MH)	2.1	177129	EA	VE
250	HPS	2.0	178351	EA	VE
400	HPS	2.0	178351	EA	VE

Note: See page T-34 for Alternative lens material explanation

Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.

Note: See page I-153 for explanation of Options.

LOWMOUNT INDOOR LIGHTING

I

LM5 LOWMOUNT® II LUMINAIRE

Low Bay, Enclosed

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

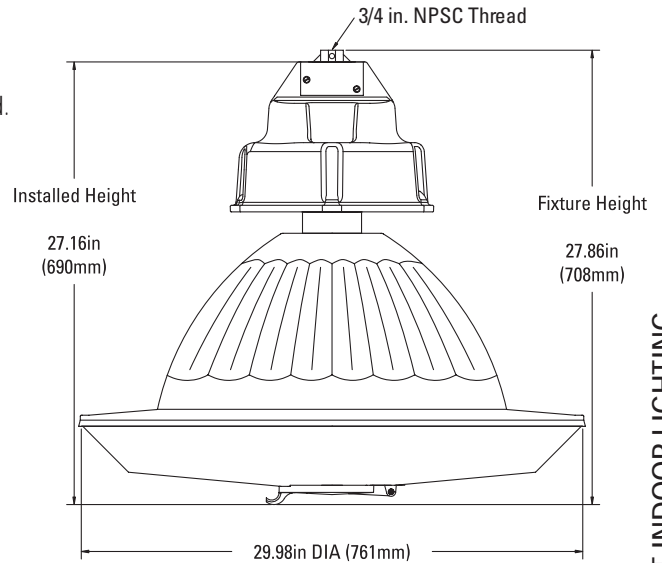
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



LOWMOUNT INDOOR LIGHTING

DATA

Approximate Net Weight Ballast and Optical	lbs 32-42	kg 15-19
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H	A,H	M	
400	HPS	A,M	A,D,G,L,M	A,D,G,L	A	A,H	A,H,M	A,H,M	A,H,M	M	
400	MH	A	A,D,L	A,D,L	A	A	A	A	A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE											
BALLAST SELECTION TABLE											
350	P (MH)	A	A,H*	A	N/A	N/A	N/A	N/A	N/A	N/A	
400	P (MH)	A	A,D,G,M	A,D,G	A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available

* H is HPF-Linear Reactor available as 277 volt only.
Cannot be used with Automatic Switch Quartz Option.

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation. To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



UM5 UNIMOUNT® 400 LUMINAIRE

Low Bay, Enclosed — Surface Mount Optical Series

With
EZ Connect™

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in factories, foundries, canneries and textile, metal, chemical, rubber, food, cement, and other industrial applications

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Damp Locations**
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- UV stabilized injection molded prismatic refractor for low brightness
- Enclosed and gasketed optics
- In-line EZ Connect™ plug-in adapter port allows for:
 - hook/loop, cord & NEMA plug
 - plug-in modular wiring systems
 - plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Threaded slide-in mounting adapter for easy mounting
- 55° C ambient, standard
- Alzak† finish on reflector
- Safety chain provisions
- Mogul base socket - E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

UM5	G	25	M	O	A	EA	AG	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
UM5 = Unimount 400 Luminaire	G = Gray Electro Coat W = White Polyester Powder	17 = 175 25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg D = System 3 Bi Level Autoreg See technical info G = (CANADIAN) Mag-reg with grounded socket shell H = HPF Reactor or Lag L = Super Low Loss Autoreg	EA = Enclosed Acrylic Refractor ES = Enclosed Advanced "ST" HID Refractor WA = Acrylic Refractor with inside of Reflector Painted White WS = Advanced "ST" HID Acrylic with inside of Reflector Painted White	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWPBP Box (Thru Feed Capability Only) Separately. <i>(Not available with W option)</i> 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability). Order PED Box Separately <i>(Not available with W option)</i> 15 = Prewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug <i>(Order locking receptacle hook box separately.)</i> 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) (See pages I-153 and I-154 for details) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop	A = 65°C maximum ambient* B = Time Delay Automatically Switched Quartz C = "Patrol" Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing <i>(Not available with W option)</i> G = Secondary Wiring Access. 7/8 in. dia. knockout <i>(Not available with W option)</i> H = Charcoal Filtering Gasket (Not available with wet location) K = Encapsulated Ballast <i>(For use with 250 & 400 watt Auto Reg Ballast only)</i> Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Socket W = Wet Location (For use with Mounting Code 15 and 67 only) Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

EA, ES OPTICAL - Enclosed Optical						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
175,250	MH	1.7	G	177155	EA, ES	AG
400	MH	1.9	A	177013	EA, ES	AA
400	MH(Coated)	1.6	A	177014	EA, ES	AA
175,250	P (MH)	1.7	G	177155	EA, ES	AG
320(ED28)*	P (MH)	1.7	G	177155	EA, ES	AG
350	P (MH)	1.9	A	177013	EA, ES	AA
400	P (MH)	1.9	A	177013	EA, ES	AA
400	P (MH)(Coated)	1.6	A	177014	EA, ES	AA
250	HPS	1.9	F	177011	EA, ES	AF
400	HPS	1.9	F	177011	EA, ES	AF

WA, WS OPTICAL - Enclosed Optical with White Inside Reflector						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
175,250	MH	2.0	H	178672	WA, WS	AH
400	MH	2.0	A	178674	WA, WS	AA
400	MH(Coated)	1.4	A	451384	WA, WS	AA
175,250	P (MH)	2.0	H	178672	WA, WS	AH
320(ED28)*	P (MH)	2.0	H	178672	WA, WS	AH
350	P (MH)	2.0	A	178674	WA, WS	AA
400	P (MH)	2.0	A	178674	WA, WS	AA
400	P (MH)(Coated)	1.4	A	451384	WA, WS	AA
250	HPS	2.0	F	178673	WA, WS	AF
400	HPS	2.0	F	178673	WA, WS	AF

*320 watt, ED28 pulse start MH
Note: See page T-34 for Alternative lens material explanation

Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

Note: See page I-128 for Accessory Index and Descriptions.
Note: See page I-153 for explanation of Options.
*65°C available for 250 and 400 watt Auto Reg Ballast and WA optical only.

UNIMOUNT INDOOR LIGHTING

I

UM5 UNIMOUNT® 400 LUMINAIRE

Low Bay Enclosed

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

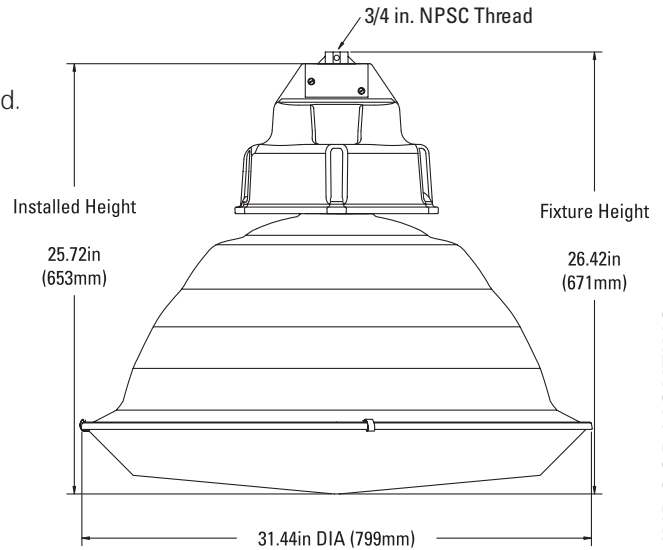
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



UNIMOUNT INDOOR LIGHTING



DATA

Approximate Net Weight Ballast and Optical	lbs 36	kgs 16
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ					50HZ			
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A	A,D,G,L	A,D,L	A	A,H	A,H,M	A,H	A,H	M
400	HPS	A	A,D,G,L	A,D,L	A	A,H	A,H,M	A,H,M	A,H,M	M
175	MH	A	A	A	A	A	N/A	N/A	N/A	N/A
250	MH	A	A,D,L	A,D	A	A	A	A	A	N/A
400	MH	A	A,D,L	A,D,G,L	A	A	A	A	A	N/A
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A,D,G,M	A,D	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A,H*	A	A	N/A	N/A	N/A	N/A	N/A
350	P (MH)	A	A,H*	A	A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A,D,G,M	A,D	A	N/A	A	A	A	N/A

NOTE: N/A = Not Available
 * H is HPF - Linear Reactor available as 277V only.
 Cannot be used with switched quartz option.

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation. To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 - 400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



UT5 UNIMOUNT® 150 LUMINAIRE

Low Bay, Enclosed— Surface Mount Optical Series

With
EZ Connect™

APPLICATIONS

- For 8-20 ft. (2-6 meter) applications in factories, canneries, textile, metal, chemical, ruger, cement and other industrial applications

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Damp Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- UV stabilized injection molded prismatic refractor for low brightness
- In-line EZ Connect™ plug-in

adapter port allows for:

- hook/loop, cord & NEMA plug
- plug-in modular wiring systems
- plug-in fuse kits
- Symmetrical heavy-duty die-cast aluminum ballast housing with electrocoat gray or white polyester paint finish
- Threaded slide-in mounting adapter for easy mounting
- 55° C ambient, standard (except 40° C for 250 watt)

- Alzak[†] finish on reflector
- Safety chain provisions
- Mogul base socket - E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

UT5	G	25	M	0	A	EA	AG	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX = Unimount 150 Luminaire	X = G = Gray Electro Coat W = White Polyester Powder	XX = 07 = 70 10 = 100 15 = 150 17 = 175 25 = 250	X = M = MH K = Ceramic MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	X = 60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	X = See Ballast Selection Table A = Autoreg D = Systems 3 Bilevel Autoreg (See Technical Section) H = HPF Reactor or Lag M = Mag-reg K = Hot restart (Contact factory)	EA = Enclosed Acrylic Refractor ES = Enclosed Advanced "ST" HID Acrylic Refractor WA = Acrylic Refractor with Inside & Outside of Reflector Painted White WS = Advanced "ST" HID Acrylic with Inside & Outside of Reflector Painted White	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. <i>(Not available with W option)</i> 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability). Order PED Box Separately. <i>(Not available with W option)</i> 15 = Rewire with EZ-Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug <i>(Order locking receptacle hook box separately.)</i> 67 = Pendant, Nut and Hanger Hub Mounting. (For use with "D" or "W", Wet Locations Option, only) <i>(See pages I-153 and I-154 for details)</i> MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop	X = B = Time Delay Automatically Switched Quartz Patrol™ C = Intermittent Automatic Lamp Shut-Off For Metal Halide Lamps (see opposing page) F = Fusing <i>(Not available with W option)</i> G = Secondary Wiring Access. 7/8 in. dia. knockout <i>(Not available with W option)</i> H = Charcoal Filtering Gasket (not available with wet location) K = Encapsulated Ballast <i>(For use with 250 watt Auto Reg Ballast only)</i> Q = Non-Time Delay Automatically Switched Quartz R = Non-Switched Quartz. T = E40 / European Socket W = Wet Location (For use with Mounting Code 15 and 67 only) Y = Solo Bilevel Port <i>(See page I-126)</i> Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE (Continued on next page)

EA, ES, EP OPTICAL - Enclosed Optical						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
175	MH, P	1.7	G	177017	EA,ES	AG
250	MH, P	1.7	G	177017	EA,ES	AG
150	P (MH)	C/F	C/F		C/F	C/F
70	HPS	1.8	G	177016	EA,ES	AG
100	HPS	1.8	G	177016	EA,ES	AG
150 (55V)	HPS	1.8	G	177016	EA,ES	AG
250	HPS	2.0	F	177162	EA,ES	AF
WA, WS, WP OPTICAL - Optical with Inside & Outside Reflector White						
175	MH, P	1.7	G	178824	WA, WS	AG
250	MH, P	1.7	G	178824	WA, WS	AG
150	P (MH)	C/F	C/F	C/F	C/F	C/F
70	HPS	1.7	G	178822	WA, WS	AG
100	HPS	1.7	G	178822	WA, WS	AG
150 (55V)	HPS	1.7	G	178822	WA, WS	AG
250	HPS	1.7	F	178823	WA, WS	AF

Note: C/F = Call Factory

Note: See page T-34 for Alternative lens material explanation

UNIMOUNT INDOOR LIGHTING

I

UT5 UNIMOUNT® 150 LUMINAIRE

Low Bay Enclosed

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height

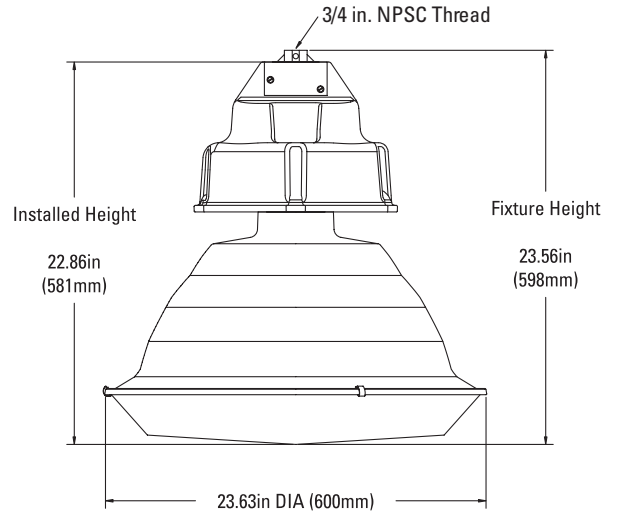
NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 33	kgs 15
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
70	HPS	H,K***	H,K***	H	H	N/A	M	N/A	N/A	N/A	
100	HPS	H,K***	H,K***	H	H	N/A	H,M	H,M	H	N/A	
150(55V)	HPS	H,K***	H,K***	H	H	A,H	H	H	H	N/A	
250	HPS	A	A	A	A	A,H	A,H,M	A,H	A,H	M	
70*	Cer, MH	H	H	H	N/A	H	N/A	N/A	N/A	N/A	
100*	Cer, MH	H	H	H	N/A	H	N/A	N/A	N/A	N/A	
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A	
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A	
175	MH	A	A	A	A	A	N/A	N/A	N/A	N/A	
250	MH	A	A,D	A,D	A	A	N/A	N/A	N/A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A	
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	P (MH)	A	A,D	A,D	A	N/A	N/A	N/A	N/A	N/A	

NOTE: N/A = Not Available
* Medium base socket (Lamp not included)
** 480 Volt not available
*** Hot Restart supplied in Large Ballast Housing — contact factory

CANADIAN NOTES:

- "A", Autoreg, and "D", Bilevel Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.

"C" OPTION

Patrol™ - Intermittent Lamp Shut-Off For Metal Halide Lamps

Automatically shuts fixture off for 15 minutes every 120 hours of operation.

To conform to lamp manufacturers' recommended safe lamp operation.

Available on the following offerings:

- 175 -400 watt
- Metal Halide, pulse Metal Halide, Ceramic Metal Halide
- Auto Reg (CWA) or Mag Reg ballasts
- 60 hz and corresponding voltages (as shown in table) only

Note: Used with Gen 6 ballast housing — adds 4.96" to overall height.



MB4 MIDBAY™ LUMINAIRE High Bay or Low Bay, Enclosed

— Surface Mount Optical Series, General Die-Cast Ballast Housing

APPLICATIONS

- For 15 to 30 ft. mounting height applications requiring high efficiency, good vertical illumination on stacks or vertical surfaces. Uplight provides for elimination of dark ceilings.
- General purpose lighting, assembly areas, distribution warehouse and industrial applications.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- Enclosed and gasketed optics
- 55° C ambient, standard
- UV stabilized injection molded prismatic refractor for low brightness
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- Aluminum reflector with high reflectivity UV stabilized white polyester paint
- Mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- Pulse start system for metal halide available. See Page I-155

ORDERING NUMBER LOGIC

MB4	W	40	M	0	A	EA	AA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICALS	PHOTOMETRY	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
MB4 = MidBay Luminaire with General Die-Cast Housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347	A = Autoreg	EA = Enclosed Acrylic Refractor EP = Enclosed Polycarbonate	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop 51 = Sentinel with 3-ft (0.9 meter) cord & Hook 71 = Sentinel with 6-ft (1.8 meter) cord & Hook 53 = Sentinel with 3-ft (0.9 meter) cord & Loop 72 = Sentinel with 6-ft (1.8 meter) cord & Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)	B = Time Delay Automatically Switch Quartz F = Fusing Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic				
Wattage	Light Source	Photometric Curve	Optical Code	Photometry Code
250	MH	453263	EA	AA
400	MH	453262	EA	AA
250	P(MH)	453266	EA	AA
320* ED28	P(MH)	453265	EA	AA
350	P(MH)	453264	EA	AA
400	P(MH)	453269	EA	AA
250	HPS	453268	EA	AA
400	HPS	453267	EA	AA

*320 watt, ED28 pulse start MH
NOTE: Socket position is fixed and not field adjustable.

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

MB4 MIDBAY™ LUMINAIRE

High Bay or Low Bay, Enclosed — Surface Mount Optical Series
General Die-Cast Housing

NOTES

See explanation on “Optical Flexibility” Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.

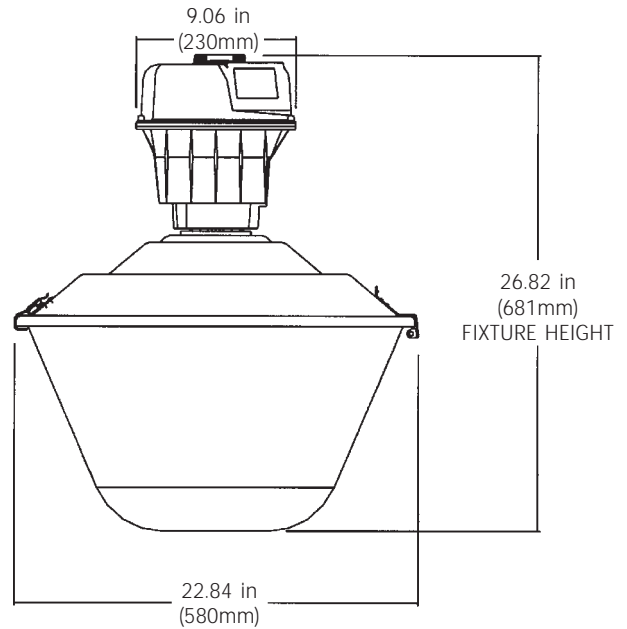
See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

NOTE

Compact Fluorescent (CFL)
available after printing.
For CFL contact factory.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 35-38	kgs 16-17
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	N/A	
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F	
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F	

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

*480 volt, Consult Factory for 480 volt

1. "A", Autoreg available 120 x 347 volts only

2. Multivolt not available.



OB4 OMNIBEAM™ 400 LUMINAIRE

High Bay, Enclosed or Open — *Surface Mount Optical Series*
General Die-Cast Housing

APPLICATIONS

- For over 20-foot (6 meter) applications, assembly lines, inspection areas, production bays, storage areas, warehouses, commercial and retail areas.

SPECIFICATION FEATURES

- 1598 Listed
- Listed to Canadian standards and codes
- Open/ventilated or enclosed opticals with choice of clear or prismatic lens
- Acrylic reflector
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- 55° C ambient, standard, except as noted in Photometric Table
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
 Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

OB4	W	40	M	0	A	V6	AC	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OB4 = Omnibeam 400 Luminaire with General Die-Cast Housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240	A = Autoreg See Ballast Next Page	E2 = Enclosed 22 in. with clear flat acrylic lens E6 = Enclosed 26 in. with clear flat acrylic lens P2 = Enclosed with prismatic conical lens 22 in. Optical V6 = Open and ventilated 26 in. acrylic V2 = open 22 in. acrylic For Alternative Polymeric Material not shown above see table below	XX = Select Code from Photometric Selection Table See Photometric table on next page. →	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Rewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop 51 = Sentinel with 3-ft (0.9 meter) cord & Hook 71 = Sentinel with 6-ft (1.8 meter) cord & Hook 53 = Sentinel with 3-ft (0.9 meter) cord & Loop 72 = Sentinel with 6-ft (1.8 meter) cord & Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC) F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	B = Time Delay Automatically Switched Quartz F = Fusing S = Exclusionary mogul base socket for MH open fixtures Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

SPECIAL OPTICAL CODES - ALTERNATIVE POLYMERIC MATERIALS

ADVANCED "ST" HID ACRYLIC - Enhanced Lamp Containment and Reduced Yellowing		
S2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens
T2	Advanced "ST" HID Acrylic	Enclosed 22" "ST" HID Acrylic Reflector with Prismatic Conical "ST" HID Acrylic Lens
S6	Advanced "ST" HID Acrylic	Enclosed 26" "ST" HID Acrylic Reflector with Clear Flat "ST" HID Acrylic Lens

Note: For above Optical Codes, use corresponding Acrylic Photometry Code listed in Photometric Selection Tables and associated photometric data.
 Note: See page T-34 for Alternative lens material explanation

OMNIBEAM INDOOR LIGHTING



OB4 OMNIBEAM™ 400 LUMINAIRE

High Bay, Enclosed or Open — Surface Mount Optical Series
General Die-Cast Housing

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ					50HZ			
		Multivolt	120, 208 240, 277 480	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

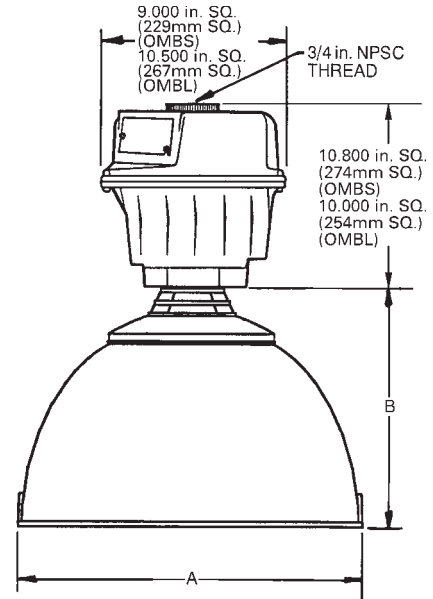
Wattage	Light Source	Ballast	120, 208 240, 277 480	120 x 347	220	220	230	240	380
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	N/A
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- *480 volt, Consult Factory for 480 volt
- 1. "A", Autoreg available 120 x 347 volts only
- 2. Multivolt not available.

FIXTURE DIMENSIONS



Optical Diameter Description	Dimension A	B
22 in. (559mm)	22.500in. (572mm)	17.000in. (432mm)
26 in. (660mm)	25.600in. 650mm	18.000in. 457mm

DATA

Approximate Net Weight Ballast and Optical	lbs	kg
	37	17

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

- See Page I-128 for start of Accessories.
- See Page I-142 for Component Ordering Logic.
- See Page I-153 for Explanation of Options and Other Terms Used.

PHOTOMETRIC SELECTION TABLE (From Ordering Number Logic on previous page)

PHOTOMETRIC SELECTION TABLE

E2, S2 OPTICAL - Enclosed 22in. with flat clear Acrylic							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40**	1.0	E	452439	E2	AE
250	MH,P	40**	1.4	H	452440	E2	AH
250	MH(Coated),P	40**	1.0	D	452443	E2	AD
250	MH(Coated),P	40**	1.4	H	452444	E2	AH
320*	MH,P	40**	1.3	A	452452	E2	AA
320*	MH,P	40**	1.5	G	452453	E2	AG
320*	MH(Coated),P	40**	1.3	H	452466	E2	AH
350, 400	MH,P	40**	1.9	A	452462	E2	AA
350, 400	MH(Coated),P	40**	1.6	A	452465	E2	AA
250-400	HPS	40**	1.5	A	452448	E2	AA

E6, S6 OPTICAL - Enclosed 26in. with flat clear Acrylic							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH,P	55	1.6	B	179849	E6	AB
350, 400	MH,P	55	1.8	D	179851	E6	AD
350, 400	MH(Coated),P	55	1.6	D	179852	E6	AD
350, 400	MH(Coated),P	55	1.9	H	179853	E6	AH
250-400	HPS	55	1.3	E	179861	E6	AE
250-400	HPS	55	1.4	E	179862	E6	AE
250-400	HPS	55	1.5	G	179863	E6	AG

*320 watt is ED28 Pulse Start MH
**Contact Factory for 55C availability

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22in. Reflector — MH requires "S" option EX39 socket							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	55	1.3	A	452450	V2	AA
250	MH,P	55	1.5	G	452451	V2	AG
250	MH(Coated),P	55	1.3	A	452456	V2	AA
250	MH(Coated),P	55	1.5	F	452455	V2	AF
350, 400	MH,P	55	1.6	A	452460	V2	AA
350, 400	MH(Coated),P	55	1.6	A	452463	V2	AA
250, 400	HPS	55	1.5	A	452447	V2	AA

V6 OPTICAL - Open and Ventilated 26in. Reflector — MH requires "S" option EX39 socket							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
350, 400	MH,P	55	1.6	B	178906	V6	AB
350, 400	MH(Coated),P	55	1.7	C	178976	V6	AC
350, 400	MH(Coated),P	55	1.6	B	178975	V6	AB
250-400	HPS	55	1.3	E	178905	V6	AE
250-400	HPS	55	1.7	G	178969	V6	AG

P2, T2 OPTICAL - Enclosed 22in. with Acrylic prismatic conical lens							
Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40**	1.1	A	452441	P2	AA
250	MH,P	40**	1.5	H	452442	P2	AH
250	MH(Coated),P	40**	1.1	A	452446	P2	AA
250	MH(Coated),P	40**	1.5	G	452445	P2	AG
320*	MH,P	40**	1.6	A	452454	P2	AA
320*	MH(Coated),P	40**	1.5	A	452459	P2	AA
350, 400	MH(Coated),P	40**	1.8	A	452464	P2	AA
250-400	HPS	55	1.7	A	452449	P2	AA

*320 watt is ED28 Pulse Start MH
**Contact Factory for 55C availability



UG4 UNIGLOW® 400 LUMINAIRE

High Bay, Enclosed or Open — *Surface Mount Optical Series*
General Die-Cast Housing

APPLICATIONS

- For over 20-foot (6 meter) applications, warehouses, handling, general assembly, manufacturing and other indoor lighting areas where high intensity discharge (HID) light sources are applicable

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Damp Locations.
- Listed to Canadian standards and codes
- Open or enclosed optical assembly (clear tempered door lens on enclosed unit)
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- 55°C ambient, standard
- Alzak¹ finish on aluminum faceted reflector
- Adjustable mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical. Magnapack available for ballast.
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
 Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

UG4	W	40	M	0	A	E7	AA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
UG4 = Uniglow 400 Luminaire with General Die-Cast housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347	A = Autoreg	E7 = Enclosed 17 in. Reflector V2 = Open 22-in. Reflector V7 = Open 17-in. Reflector Note: Do not use open opticals with lamps, specified for use in enclosed opticals only.	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Rewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.)	X B = Time Delay Automatically Switched Quartz F = Fusing S = Exclusionary mogul base socket for MH open fixtures Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open 22 in. Reflector—MH requires "S" option EX39 base socket						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250,400	HPS	0.7	F	177004	V2	AF
400	MH	1.0	E	177042	V2	AE
V7 OPTICAL - Open 17 in. Reflector—MH requires "S" option EX39 base socket						
400	MH	1.5	A	176791	V7	AA
400	MH	1.9	E	177108	V7	AE
400	MH(Coated)	1.3	A	176788	V7	AA
400	P (MH)	1.5	A	176791	V7	AA
400	P (MH)	1.9	E	177108	V7	AE
400	P (MH) Coated	1.3	A	176788	V7	AA
250,400	HPS	1.0	A	176782	V7	AA
250,400	HPS	1.5	F	176775	V7	AF
250,400	HPS	1.7	H	176777	V7	AH
E7 OPTICAL - Enclosed 17 in. Reflector						
250	MH	1.1	G	177105	E7	AG
400	MH	1.5	A	177104	E7	AA
250	P (MH)	1.1	G	177105	E7	AG
320(ED28)*	P (MH)	1.1	G	177105	E7	AG
350	P (MH)	1.5	A	177104	E7	AA
400	P (MH)	1.5	A	177104	E7	AA
250,400	HPS	1.0	A	177120	E7	AA
250,400	HPS	1.5	F	177119	E7	AF
250,400	HPS	1.7	H	177122	E7	AH

*320 watt, ED28 pulse start MH

Use open optical photometrics and reduce values by 10% for enclosed opticals

GE Lighting Systems, Inc.

www.gelightingssystem.com

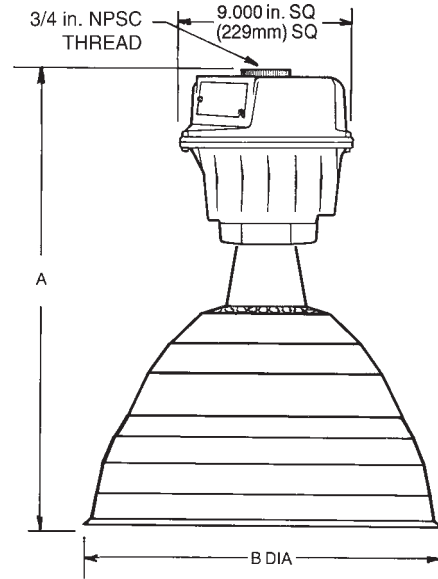
UNIGLOW INDOOR LIGHTING



UG4 UNIGLOW® 400 LUMINAIRE

High Bay, Enclosed or Open—Surface Mount Optical Series
General Die-Cast Housing

FIXTURE DIMENSIONS



ENCLOSED	A	B
17-in. Dia. 432mm Dia.	27.500in. 699mm	17.312in. 440mm
22-in. Dia. 559mm Dia	28.000in. 711mm	23.126in. 587mm
OPEN	A	B
17-in. Dia. 432mm Dia.	27.000in. 686mm	17.125in. 435mm
22-in. Dia. 559mm Dia	27.500in. 699mm	22.625in. 575mm

DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	23-58	10-26

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	N/A	
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F	
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F	

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- *480 volt, Consult Factory for 480 volt
- 1. "A", Autoreg available 120 x 347 volts only
- 2. Multivolt not available.



GH4 GHB® LUMINAIRE

High Bay, Open — Bracket Mount Optical Series General Die-Cast Housing

APPLICATIONS

- For over 20 ft. (6 meter) applications, warehouses, assembly plants, material handling, maintenance areas, manufacturing inspection areas, hangars, and other areas where economics and energy-efficient light sources are important

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- 55° C ambient, standard
- Flexible Spacing Criterion (SC) – five-position mounting bracket allows field-adjustable light distribution
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- Mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Magnapack available for ballast.
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

GH4 INDOOR LIGHTING

ORDERING NUMBER LOGIC

GH4	W	40	M	0	A	V6	NA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
GH4 = GHB Luminaire with General Die-Cast Housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347	A = Autoreg	V6 = Open ventilated 16-inch Reflector. (Do not use open optical with lamps marked for use in enclosed fixtures only.) D6 = 16-inch Reflector with door glass kit included. (Note: See table for door glass limitations)	NA = Not Applicable (Reflector position is set at installation)	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop 51 = Sentinel with 3-ft (0.9 meter) cord & Hook 71 = Sentinel with 6-ft (1.8 meter) cord & Hook 53 = Sentinel with 3-ft (0.9 meter) cord & Loop 72 = Sentinel with 6-ft (1.8 meter) cord & Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC) F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	B = Time Delay Automatically Switch Quartz F = Fusing S = Exclusionary mogul base socket for MH open fixtures Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

V6 OPTICAL - Open 16 in. Reflector —
MH requires "S" option EX39 base socket

Wattage	Light Source	Spacing Criteria	Reflector Position	Photometric Curve	Optical Code	Photometry Code
400	MH	1.2	1	179646	V6	NA
400	MH	1.5	2*	179642	V6	NA
400	MH	1.7	3*	179643	V6	NA
400	MH	2.0	4*	179644	V6	NA
400	MH	2.3	5*	179645	V6	NA
400	MH, (Coated)	1.1	1	179647	V6	NA
400	MH, (Coated)	1.3	2*	179648	V6	NA
400	MH, (Coated)	1.5	3*	179649	V6	NA
400	MH (Coated)	1.6	4*	179650	V6	NA
350,400	P (MH)	1.2	1	179646	V6	NA
400	P (MH)	1.5	2*	179642	V6	NA
400	P (MH)	1.7	3*	179643	V6	NA
400	P (MH)	2.0	4*	179644	V6	NA
400	P (MH)	2.3	5*	179645	V6	NA
350,400	P (MH Coated)	1.1	1	179647	V6	NA
400	P (MH Coated)	1.3	2*	179648	V6	NA
400	P (MH Coated)	1.5	3*	179649	V6	NA
400	P (MH Coated)	1.6	4*	179650	V6	NA
250,400	HPS	1.0	3	179639	V6	NA
250,400	HPS	1.1	4	179640	V6	NA
250,400	HPS	1.4	5	179641	V6	NA

* Cannot use with door glass accessory

PHOTOMETRIC SELECTION TABLE

D6 OPTICAL - Ventilated 16 in. Reflector with Flat Clear Door Glass

D6 Wattage	Light Source	Spacing Criteria	Reflector Position	Photometric Curve	Optical Code	Photometry Code
250	MH	1.1	5	179651	D6	N/A
250	P (MH)	1.1	5	179651	D6	N/A
320* (ED28)	P (MH)	1.1	5	179651	D6	N/A
350	P (MH)	1.1	1	450780	D6	N/A
350	P (MH Coated)	1.1	1	450782	D6	N/A
400	P (MH)	1.1	1	450780	D6	N/A
400	P (MH Coated)	1.1	1	450782	D6	N/A

N/A = Not Available
* 320 watt, ED28 pulse start MH

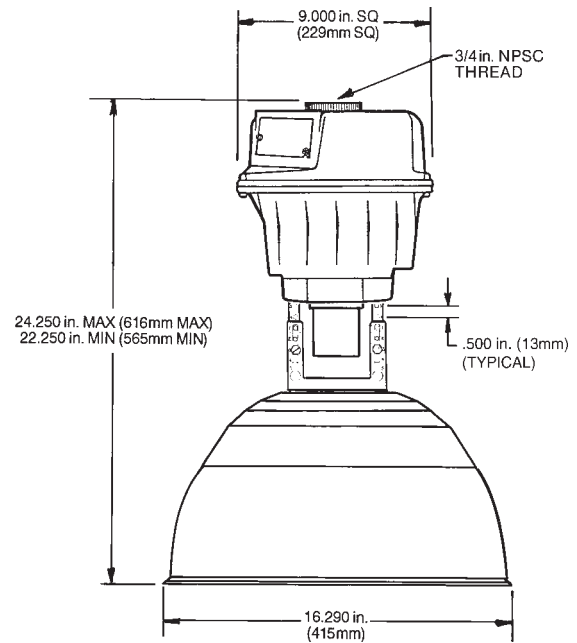
GE Lighting Systems, Inc.

www.gelightingssystem.com

GH4 GHB® LUMINAIRE

High Bay, Open — Bracket Mount Optical Series
General Die-Cast Housing

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 22	kgs 10
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NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F
PULSE START METAL HALIDE LIGHT SOURCE										
BALLAST SELECTION TABLE										
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	C/F	N/A
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F	C/F
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:
*480 volt, Consult Factory for 480 volt
1. "A", Autoreg available 120 x 347 volts only
2. Multivolt not available.

GHB INDOOR LIGHTING





GW4 GHB® WAREHOUSE LUMINAIRE

High Bay, Open — Bracket Mount Optical Series

General Die-Cast Housing

APPLICATIONS

- For over 20 ft. (6 meter) applications, warehouse isle lighting

SPECIFICATION FEATURES

- 1598 Listed
- Listed to Canadian standards and codes
- 55° C ambient, standard
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- Flexible Spacing Criterion (SC) – five-position mounting bracket allows field-adjustable light distribution
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast.
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

GW4	W	40	M	0	A	V6	NA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
GW4 = GHBW Luminaire with General Die-Cast Housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347	A = Autoreg	V6 = Open ventilated 16-inch Reflector. (Do not use open optical with lamps marked for use in enclosed fixtures only.)	NA = Not Applicable (Reflector position is set at installation)	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop 51 = Sentinel with 3-ft (0.9 meter) cord & Hook 71 = Sentinel with 6-ft (1.8 meter) cord & Hook 53 = Sentinel with 3-ft (0.9 meter) cord & Loop 72 = Sentinel with 6-ft (1.8 meter) cord & Loop	B = Time Delay Automatically Switched Quartz F = Fusing S = Exclusionary mogul base socket for MH open fixtures Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

V6 OPTICAL - Ventilated GHBW 16 in. Reflector —
MH requires "S" option EX39 base socket

Wattage	Light Source	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH	2*	178294	V6	NA
400	P(MH)	2*	178294	V6	NA
250	HPS	4	178280	V6	NA
400	HPS	4	178280	V6	NA

*Cannot use door glass assembly

V6 OPTICAL - Ventilated GHBW 16 in. Reflectors with door glass —
MH requires "S" option EX39 base socket

Wattage	Light Source	Socket Position	Photometric Curve	Optical Code	Photometry Code
400	MH	1	450747	V6**	NA
400	P(MH)	1	450747	V6**	NA

**Order DGA6-GHBB separately

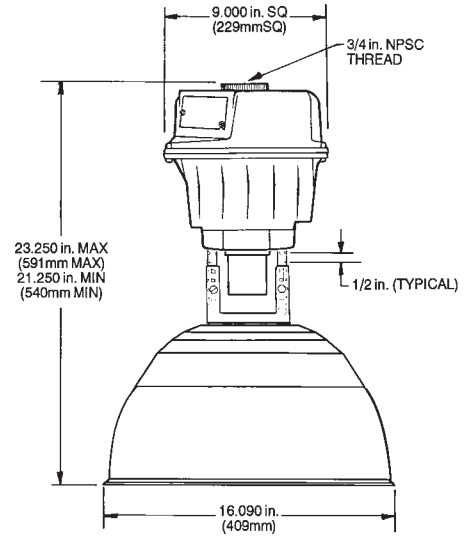
Note: ACS = Flex 3 +
Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

GW4 GHB® WAREHOUSE LUMINAIRE

High Bay, Open — Bracket Mount Optical Series
General Die-Cast Housing

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	22	10

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

GHB INDOOR LIGHTING



BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F	
PULSE START METAL HALIDE LIGHT SOURCE										
BALLAST SELECTION TABLE										
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	N/A	
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F	
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F	

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- *480 volt, Consult Factory for 480 volt
- 1. "A", Autoreg available 120 x 347 volts only
- 2. Multivolt not available.



GP4 GHB® PRISMATIC LUMINAIRE

(Acrylic or Glass) High Bay, Open — Bracket Mount
Optical Series, General Die-Cast Housing

APPLICATIONS

• Assembly lines, inspection areas, production bays, storage areas, warehouses and commercial areas

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- Listed to Canadian standards and codes
- 55° C ambient, standard
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- UV stabilized acrylic reflector, Advanced "ST" HID Acrylic reflector or Borosilicate Glass reflector
- Flexible Spacing Criterion (SC) – five-position mounting bracket allows field-adjustable light distribution
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.
- Pulse start system for metal halide available. See Page I-155

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

GP4	W	40	M	0	A	V6	NA	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	A=Autoreg	XX	XX	XX	X
GP4 = GHBP Luminaire with General Die-Cast Housing	W = White Polyester Powder	17 = 175 25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347		V4 = Open ventilated 14-inch glass D4 = 14-inch glass with door glass kit V6 = Open ventilated 16-inch acrylic V2 = Open ventilated 22-inch acrylic S6 = Open Ventilated 16in Advanced "ST" HID Acrylic S2 = Open Ventilated 22in Advanced "ST" HID Acrylic NOTE: Do not use open opticals with lamps specified for use in enclosed fixtures only. Note: Lens assemblies' available.	NA = Not Applicable (Reflector position is set at installation) See opposing page.	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) MODULARPREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop 51 = Sentinel with 3-ft (0.9 meter) cord & Hook 71 = Sentinel with 6-ft (1.8 meter) cord & Hook 53 = Sentinel with 3-ft (0.9 meter) cord & Loop 72 = Sentinel with 6-ft (1.8 meter) cord & Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC) F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required) F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase) F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase) F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)	B= Time Delay Automatically Switch Quartz F = Fusing S = Exclusionary mogul base socket for MH open fixtures Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

GHB INDOOR LIGHTING



BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage							
		60HZ				50HZ			
		Multivolt	120, 208, 240, 277, 480	120 x 347	220	220	230	240	380
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

175	P (MH)	N/A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	A*	C/F	C/F	C/F	C/F	N/A
350	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

*480 volt, Consult Factory for 480 volt
1. "A", Autoreg available 120 x 347 volts only
2. Multivolt not available.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

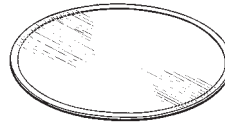
GP4 GHB® PRISMATIC LUMINAIRE

(Acrylic or Glass) High Bay, Open — Bracket Mount
Optical Series, General Die-Cast Housing

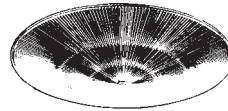
Lens Assemblies

For Acrylic/Polycarbonate opticals only (Order separately)

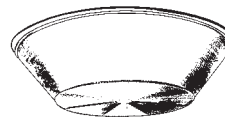
- **E*L2-GHBP**
Clear acrylic lens for 22-in. (559mm) optical (40°C max. ambient on 400 watt fixtures)
 - **E*L6-GHBP**
Clear acrylic lens for 16-in (406mm) optical (40°C max. ambient on 250 watt fixtures)
 - **E*PL2-GHBP**
Clear acrylic prismatic conical lens for 22-in (559mm) optical (40°C max. ambient on 400 watt fixtures)
 - **E*PL6-GHBP**
Clear acrylic prismatic conical lens for 16-inch optical (40°C maximum ambient on 250W fixtures)
 - **E*RL6-GHBP**
Clear prismatic drop lens for 16-inch optical (40°C maximum ambient on 250W fixtures)
- * Select Lens material (Example EAL2-GHBP = Standard Acrylic)
A = Standard Acrylic
S = Advanced "ST" HID Acrylic for enhanced lamp containment and reduced yellowing.



E*L2-
E*L6-

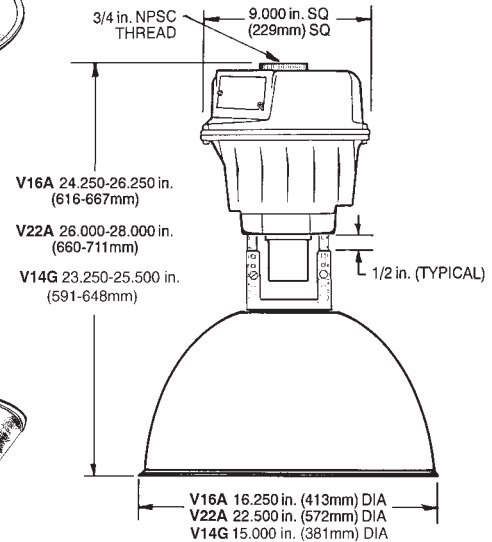


E*PL2-
E*PL6-



E*RL6-

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kgs
Ballast and Optical	22-32	10-15

PHOTOMETRIC SELECTION TABLE

V4 OPTICAL - Open & Ventilated 14in. Prismatic Glass Reflector
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	55	1.5	9	450161	V4	NA
350,400	MH,P	55	1.8	7	450159	V4	NA
350,400	MH,P	55	2.0	5	450157	V4	NA
350,400, Coated	MH,P	55	1.3	8	450169	V4	NA
350,400, Coated	MH,P	55	1.5	6	450167	V4	NA
350,400, Coated	MH,P	55	2.0	2	450163	V4	NA
250	HPS	55	1.5	3	450175	V4	NA
250	HPS	55	1.8	2	450177	V4	NA
400	HPS	55	1.7	2	450153	V4	NA

D4 OPTICAL - Enclosed & Ventilated 14in. Prismatic Glass Reflector with Flat Glass Lens

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250,320(ED28)	MH,P	55	1.4	2	450196	D4	NA
250,320(ED28) Coated	MH,P	55	1.3	2	450207	D4	NA
350,400, Coated	MH,P	55	1.3	9	450190	D4	NA
350,400, Coated	MH,P	55	1.7	5	450187	D4	NA
350,400, Coated	MH,P	55	1.9	3	450185	D4	NA

V6 OPTICAL - Open & Ventilated 16in. Acrylic Prismatic Reflector
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
350,400	MH,P	40	2.0	3	179381	V6	NA
350,400, Coated	MH,P	40	1.9	3	179382	V6	NA
250	HPS	55	1.7	4	178415	V6	NA
250	HPS	55	1.9	5	178413	V6	NA

V6 OPTICAL - Ventilated 16in. Acrylic Prismatic Reflector with E*L6-GHBP Flat Polymeric Lens**
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40	1.5	4	179274	V6	NA
250	MH,P	40	1.7	5	179271	V6	NA
250, Coated	MH,P	40	1.5	4	179273	V6	NA
250, Coated	MH,P	40	1.7	5	179272	V6	NA

V6 OPTICAL - Ventilated 16in. Acrylic with E*PL6-GHBP Prismatic Conical Polymeric Lens**
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
175	MH,P	40	1.5	3	450246	V6	NA
175	MH,P	40	1.7	4	450247	V6	NA
175	MH,P	40	2.0	5	450248	V6	NA
175, Coated	MH,P	40	1.5	3	450226	V6	NA
175, Coated	MH,P	40	1.7	4	450229	V6	NA
175, Coated	MH,P	40	1.9	5	450232	V6	NA
250	MH,P	40	1.5	3	450237	V6	NA
250	MH,P	40	1.7	4	450238	V6	NA
250	MH,P	40	2.0	5	450239	V6	NA
250, Coated	MH,P	40	1.4	3	450217	V6	NA
250, Coated	MH,P	40	1.6	4	450220	V6	NA
250, Coated	MH,P	40	1.8	5	450223	V6	NA

** Ordered separately

* Select Lens material (Example EAL2-GHBP = Standard Acrylic)

Note 1: For Advanced "ST" HID Acrylic, use corresponding Acrylic Photometry Code listed in Photometric Section and associated photometric data.

Note 2: See page T-34 for Alternative Material explanation.

PHOTOMETRIC SELECTION TABLE

V6 OPTICAL - Ventilated 16in. Acrylic with E*RL6-GHBP Drop Polymeric Lens**
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250	MH,P	40	1.3	3	450240	V6	NA
250	MH,P	40	1.5	4	450241	V6	NA
250	MH,P	40	1.7	5	450242	V6	NA
250, Coated	MH,P	40	1.2	3	450218	V6	NA
250, Coated	MH,P	40	1.4	4	450221	V6	NA
250, Coated	MH,P	40	1.6	5	450224	V6	NA

V2 OPTICAL - Open & Ventilated 22in. Prismatic Acrylic Reflector
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250,320(ED28)	MH,P	55	0.8	5	451942	V2	NA
250,320(ED28) Coated	MH	55	1.0	5	451943	V2	NA
350,400	MH,P	55	1.5	5	451948	V2	NA
350,400, Coated	MH	55	1.4	5	451949	V2	NA
400	HPS	55	0.9	4	451954	V2	NA
400	HPS	55	1.2	5	451955	V2	NA

V2 OPTICAL - Ventilated 22in. Prismatic Acrylic Reflector with E*PL2-GHBP Prismatic Conical Polymeric Lens**
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250,320(ED28)	MH,P	40	1.0	3	451946	V2	NA
250,320(ED28) Coated	MH	40	1.0	3	451947	V2	NA
350,400	MH,P	40	1.5	4	451952	V2	NA
350,400 Coated	MH	40	1.5	5	451953	V2	NA

V2 OPTICAL - Ventilated 22in. Prismatic Acrylic Reflector with E*L2-GHBP Flat Clear Polymeric Lens**
MH requires "S" option EX39 base socket

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
250,320(ED28)	MH,P	40	0.8	5	451944	V2	NA
350,400	MH,P	40	1.5	4	451950	V2	NA
350,400, Coated	MH	40	1.4	5	451951	V2	NA

** Ordered separately

* Select Lens material (Example EAL2-GHBP = Standard Acrylic)



GL4 GLB™ LUMINAIRE

Low Bay, Enclosed — Surface Mount Optical Series General Die-Cast Housing

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in warehouses, assembly plants, material handling, maintenance, manufacturing, inspection, and other areas where economics and energy-efficient light sources are important

SPECIFICATION FEATURES

- 1598 Listed
- **Suitable For Damp Locations**
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- UV stabilized injection molded prismatic refractor for low brightness
- Enclosed and gasketed optics
- Heavy-duty die-cast aluminum ballast housing with white polyester paint finish
- 40° C ambient, standard
- Alzak^l finish on reflector
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

GL4	W	25	M	0	A	EA	AH	11	B
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
GL4=GLB Luminaire with General Die-Cast Housing	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT Discrete voltages only available when ordering cord & plug or fusing. Specify voltage when ordering these options. 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 F = 120X347	See Ballast Selection Table A=Autoreg	EA = Enclosed Acrylic SA = Enclosed Advance "ST" HID Acrylic	XX = Select Code Below	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Rewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Rewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Rewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 67 = Pendant, Nut and Hanger Hub Mounting. (See pages I-153 and I-154 for details)	B = Time Delay Automatically Switch Quartz F = Fusing Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-155 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

EA, SA OPTICAL - Enclosed Optical						
Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
250	MH	1.9	H	178999	EA,SA,PA	AH
400	MH	1.8	A	178195	EA,SA,PA	AA
400	MH (Coated)	1.7	A	178194	EA,SA,PA	AA
250	HPS	1.8	F	178193	EA,SA,PA	AF
400	HPS	1.8	F	178193	EA,SA,PA	AF
250	P (MH)	1.9	H	178999	EA,SA,PA	AH
320(ED28)*	P (MH)	1.9	H	178999	EA,SA,PA	AH
350	P (MH)	1.8	A	178195	EA,SA,PA	AA
400	P (MH)	1.8	A	178195	EA,SA,PA	AA

*320 watt, ED28 pulse start MH

Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)

- F4 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE-LT (no phase selection required)
- F5 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (A phase)
- F6 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (B phase)
- F7 = GELS Bay Flex with 6 ft cord & Hook - Bay Flex GE HLA (C phase)

GLB INDOOR LIGHTING

I

Note: Polycarbonate lens reduce light levels by 10%
Note: See page T-34 for Alternative lens material explanation

GL4 GLB™ LUMINAIRE

Low Bay Enclosed — Surface Mount Optical Series
General Die-Cast Housing

DIMENSIONS

For wet location dimensions 1.72 inches (44mm) must be added to overall height.

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

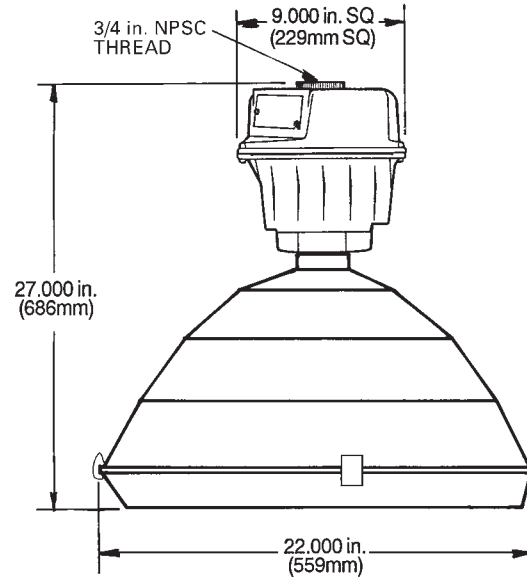
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kg
Ballast and Optical	36	16

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage							
		Multivolt	60HZ			50HZ			
			120, 208 240, 277 480	120 x 347	220	220	230	240	380
250	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A	A	N/A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	C/F	C/F	C/F	C/F	C/F
400	MH	A	A	A	C/F	C/F	C/F	C/F	C/F
PULSE START METAL HALIDE LIGHT SOURCE									
BALLAST SELECTION TABLE									
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	N/A
350	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F
400	P (MH)	A	A	A	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- *480 volt, Consult Factory for 480 volt
- 1. "A", Autoreg available 120 x 347 volts only
- 2. Multivolt not available.



CHH CHARGER™ 1000 LUMINAIRE

High Bay, Open or Enclosed

APPLICATIONS

- For over 30 ft. (9 meter) applications including distribution centers, warehouses, general assembly, manufacturing and inspection areas where economical and energy efficient lighting is required

SPECIFICATION FEATURES

- 1598 Listed certified for Indoor applications
- Listed to Canadian standards and codes
- 55° C ambient, standard
- Heavy-duty steel ballast housing with standard white paint finish
- Easy to install threaded, twist-on bushing
- Alzak¹ finish aluminum faceted reflector
- Optional steel hook for use with eye bolt hanging
- Adjustable mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical.
- 2 year warranty

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER

CHH	W	01	M	P	A	V2	AA	12	Q
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
CHH = Charger High Bay	W = White	01 = 1000	M = MH S = HPS	P = Tri-volt (120/277/347) 1 = 120 4 = 277 5 = 480 D = 347 *single voltage selection for 120, 277 or 347 available only when ordering installed cord sets (15, 25, 33 or 36) or fusing. Otherwise order "P" for Tri-volt. Tri-voltage, 120, 277 and 347 approved for UL/cUL. 480 volt UL approved only.	A = CWA	V2 = 22" Open Reflector E2 = 22" Enclosed Reflector	AA = Pre-set Soc. Pos. A	12 = 3/4" Pendant with Twist-on bushing A VOLTAGE MUST BE SPECIFIED WHEN ORDERING THE FOLLOWING: 15 = Loop (alum.), cord and plug part of power hook. Order receptacle/hook box separately (not cUL) 25 = Hook (steel), 3 ft. #16/3 cord and no plug 33 = Loop (alum.) 3 ft. #16/3 cord and NEMA plug 36 = Hook (steel), 3 ft. #16/3 cord and NEMA plug G4 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE-LT (no phase selection required) G5 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (A phase) G6 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (B phase) G7 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (C phase)	X Q = Non-Time Delay Automatically Switched Quartz F = Fusing (Voltage must be specified) S = Exclusionary mogul base socket
Note: shaded represents most commonly ordered.									

1000 High Bay (CHH 1000)

V2 OPTICAL — MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code
1000	MH	1.5	A	452733	V2
1000	MH (coated)	CF	A	CF	V2
1000	MH	1.5	A	452732	E2
1000	HPS	1.2	A	452735	V2

CF = Contact Factory

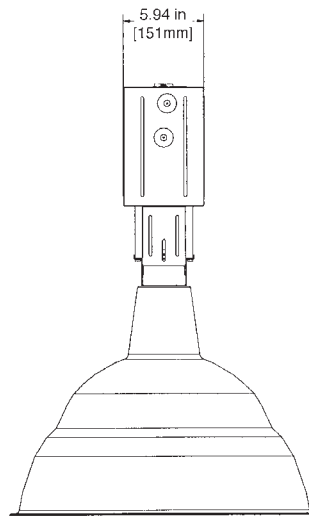
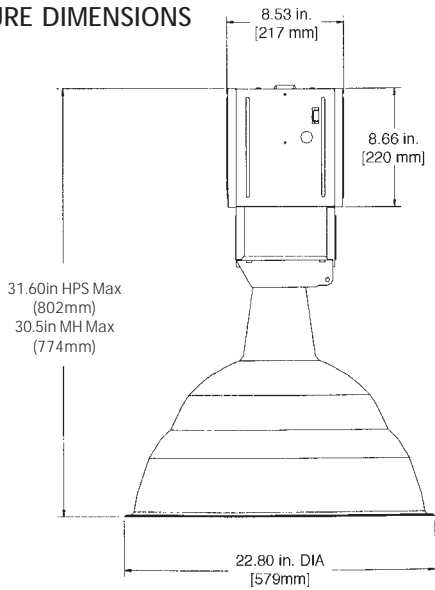
CHARGER INDOOR LIGHTING



CHH CHARGER™ 1000 LUMINAIRE

High Bay, Open or Enclosed

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 47	kgs 21
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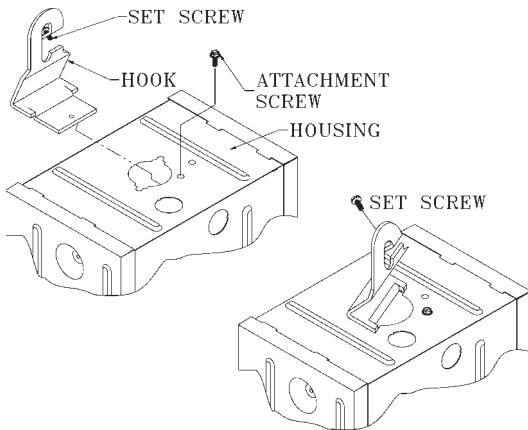
BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage		
		60HZ Trivolt 120, 277, 347	120, 277, 480	347
1000	MH/HPS	A	A	A

CHARGER INDOOR LIGHTING



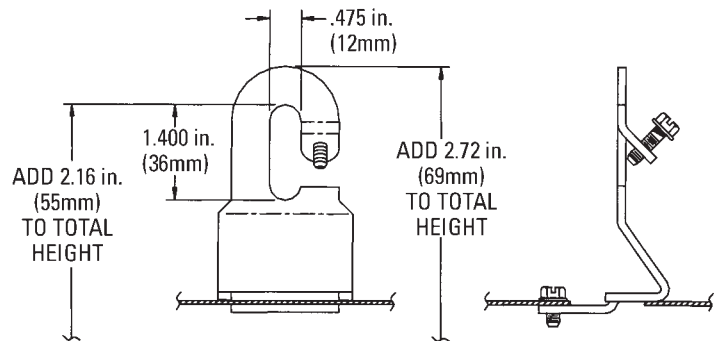
Steel Hook Mounting Option



When steel hook is ordered, it is supplied factory installed in lieu of threaded 3/4" twist-on housing. Cord exits side of ballast housing.

Note: For field installed hook, cord, plug, see accessories.

Steel Hook as referred to in Mounting Code



Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF

Note: To order as an accessory use catalog number - HOOKS.

CHB CHARGER™ LUMINAIRE

High Bay, Open/Enclosed



APPLICATIONS

- For over 20 ft. (6 meter) applications in distribution centers, assembly plants, material handling, maintenance, manufacturing, inspection and other areas where economical and energy-efficient lighting are required

SPECIFICATION FEATURES

- 1598 Certified for Indoor Locations
- Certified for Indoor Locations
- Heavy-duty steel ballast housing with standard white paint finish
- Easy to install, threaded, hanger hub
- Formed aluminum reflector with Alzak[†] finish providing uniform lighting distribution for high bay lighting
- Optional steel hook for use with eye bolt hanging
- Flexible Spacing Criterion (SC) allows field adjustable light distribution
- Safety chain provisions
- Mogul base socket - E39 standard
- Shipped as components: Ballast, Optical.
- Unit pack option available - See Read-Stock information
- 2 Year Standard warranty
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

CHB	W	40	M	0	A	V6	NA	12	Q
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
CHB = Charger High Bay Luminaire	W = White	25 = 250 32 = 320 40 = 400	M = MH S = HPS P = Pulse Start MH Note: Lamp is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg	V6 = Open ventilated 16-in. (406mm) Reflector D6 = 16-in. (406mm) reflector with door glass kit included Note: Do not use open opticals with lamps specified for use in enclosed fixtures only	NA = Not Applicable	12 = Pendant mounting with Charger hanger hub 15 = Aluminum Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 36 = Hook - Steel with 3 ft. (0.9 meters) #16/3 Cord and NEMA Plug MODULAR PREWIRE 45 = ACS with 3-ft (0.9 meters) cord & Steel-Hook 55 = Sentinel with 3-ft (0.9 meters) cord & Steel-Hook 65 = ACS with 6-ft (1.8 meters) cord & Steel-Hook 66 = Sentinel with 6-ft (1.8 meters) cord & Steel-Hook Note: Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF	F = Fusing Q = Non-Time Delay Automatically Switch Quartz S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

V6 OPTICAL - Open and Ventilated 16 in. Reflector MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Reflector Position	Ambient °C	Photometric Curve
250	HPS	1.7	W	55	451937
400	HPS	1.6	W	55	451930
250	HPS	1.4	N	55	451934
400	HPS	1.3	N	55	451933
250, 320*	MH,P	0.9	W	55	451922
400	MH,P	1.7	W	55	451929
250, 320*	MH,P	0.8	N	55	451925
400	MH,P	1.4	N	55	451926

D6 OPTICAL - 16 in. Reflector with door glass kit

Wattage	Light Source	Spacing Criteria	Reflector Position	Ambient °C	Photometric Curve
250	HPS	1.7	W	55	451936
400	HPS	1.6	W	55	451931
250	HPS	1.4	N	55	451935
400	HPS	1.3	N	55	451932
250, 320*	MH,P	0.9	W	55	451923
400	MH,P	1.7	W	55	451928
250, 320*	MH,P	0.8	N	55	451924
400	MH,P	1.4	N	55	451927

*320 watt is ED Pulse Start MH

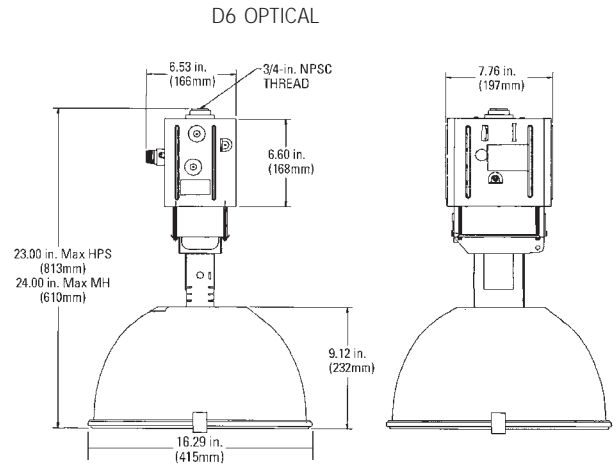
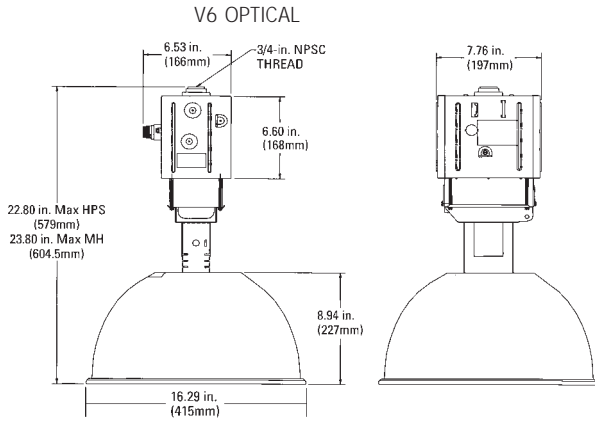
REFERENCES

- See Page I-128 for start of Accessories.
- See Page I-142 for Component Ordering Logic.
- See Page I-153 for Explanation of Options and Other Terms Used.

CHB CHARGER™ LUMINAIRE

High Bay, Open/Enclosed

FIXTURE DIMENSIONS



BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage	60HZ						50HZ				
			Multivolt	120, 208, 240, 277, 480		347	120 x 347		220	220	230	240	380
				A	A		A	N/A					
250	HPS	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
400	HPS	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F	C/F	
400	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F	C/F	

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	C/F	C/F	N/A
400	P (MH)	A	A	A	A	C/F	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

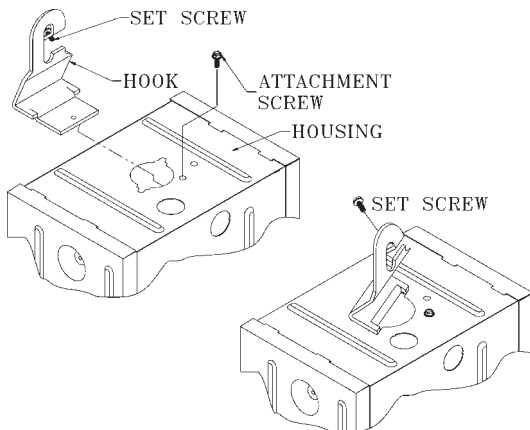
CANADIAN NOTES:

- *480 volt, Consult Factory
- 1. "A", Autoreg available 120, 277 or 347 volts only
- 2. Multivolt not available.

DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	18-20	8-9

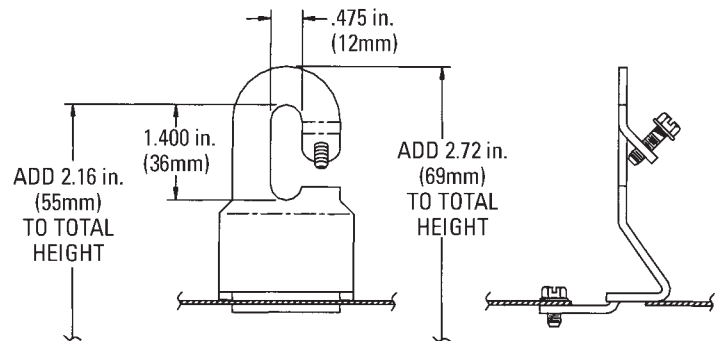
Steel Hook Mounting Option



When steel hook is ordered, it is supplied factory installed in lieu of threaded 3/4" twist-on housing. Cord exits side of ballast housing.

Note: For field installed hook, cord, plug, see accessories.

Steel Hook as referred to in Mounting Code



Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF

Note: To order as an accessory use catalog number - **HOOKS**.

Note: For gymnasium applications see Accessories: Page 107 for Optical Retention Clip - **CHB-GC** Page 108 for Wireguard - **H2000-NE**

GE Lighting Systems, Inc.

www.gelighting.com

CHARGER INDOOR LIGHTING





CPH CHARGER™ 1000 PRISMATIC LUMINAIRE

High Bay, Open

APPLICATIONS

- For over 30 ft. (9 meter) applications including commercial areas, multipurpose, distribution centers, warehouses, general assembly, manufacturing and inspection areas where economical and energy efficient lighting is required

SPECIFICATION FEATURES

- UL 1598 Listed certified for Indoor applications
- Listed to Canadian standards and codes
- 40° C ambient, standard
- Heavy-duty steel ballast housing with standard white paint finish
- Easy to install threaded, twist-on bushing
- Open UV stabilized acrylic reflector
- Optional steel hook for use with eye bolt hanging
- Adjustable mogul base socket - E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical.
- 2 year warranty

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER

CPH	W	01	M	P	A	V6	AA	12	Q
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
CPH = Acrylic Prismatic	W = White	01 = 1000	M = MH S = HPS	P = Tri-volt (120/277/347) 1 = 120 4 = 277 5 = 480 D = 347 *single voltage selection for 120, 277 or 347 available only when ordering installed cord sets (15, 25, 33 or 36) or fusing. Otherwise order "P" for Tri-volt. Tri-voltage, 120, 277 and 347 approved for UL/cUL. 480 volt UL approved only.	A = CWA	V6 = 26" Open/Vent. Acrylic	AA = Pre-set Soc. Pos. A	12 = 3/4" Pendant with Twist-on bushing A VOLTAGE MUST BE SPECIFIED WHEN ORDERING THE FOLLOWING: 15 = Loop (alum.), cord and plug part of power hook. Order receptacle/hook box separately (not CSA/UL) 25 = Hook (steel), 3 ft. #16/3 cord and no plug 33 = Loop (alum.) 3 ft. #16/3 cord and NEMA plug 36 = Hook (steel), 3 ft. #16/3 cord and NEMA plug G4 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE-LT (no phase selection required) G5 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (A phase) G6 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (B phase) G7 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (C phase)	Q = Non-Time Delay Automatically Switched Quartz F = Fusing (Voltage must be specified) S = Exclusionary mogul base socket
Note: shaded represents most commonly ordered.									

1000 High Bay (CHH 1000)

V6 OPTICAL — MH, requires "S" Option EX39 base socket

Wattage	Light Source	Spacing Criteria	Socket Position	Photometric Curve	Optical Code
1000	MH	2.6	A	452737	V6
1000	MH (Coated)	CF	A	450758R	V6
1000	HPS	1.9	A	452736	V6

CF = Contact Factory

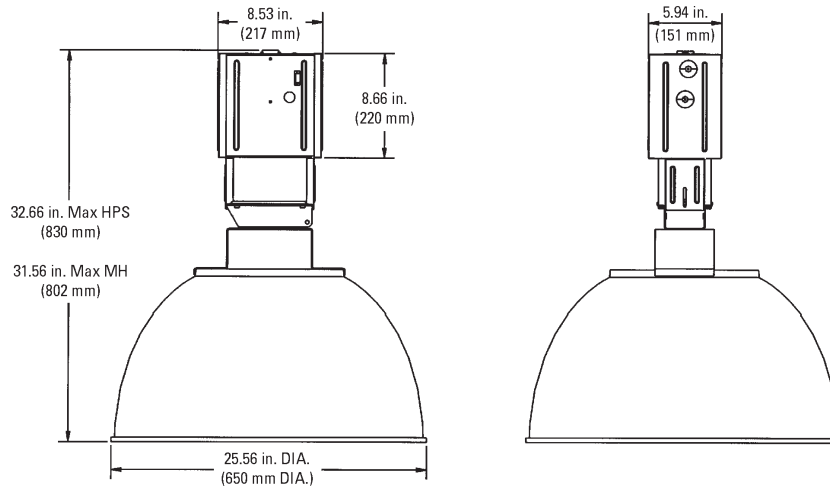
CHARGER INDOOR LIGHTING



CPH CHARGER™ 1000 PRISMATIC LUMINAIRE

High Bay, Open

FIXTURE DIMENSIONS



DATA

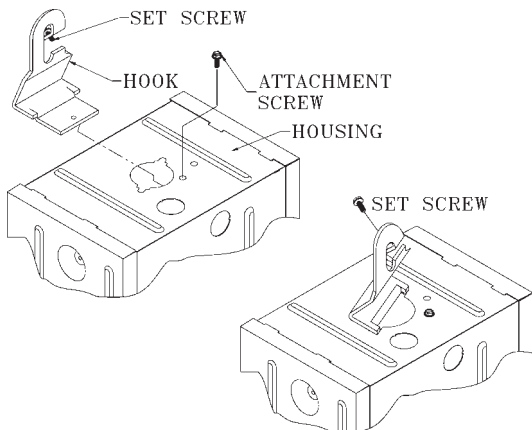
Approximate Net Weight Ballast and Optical	lbs 47	kgs 21
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BALLAST SELECTION TABLE

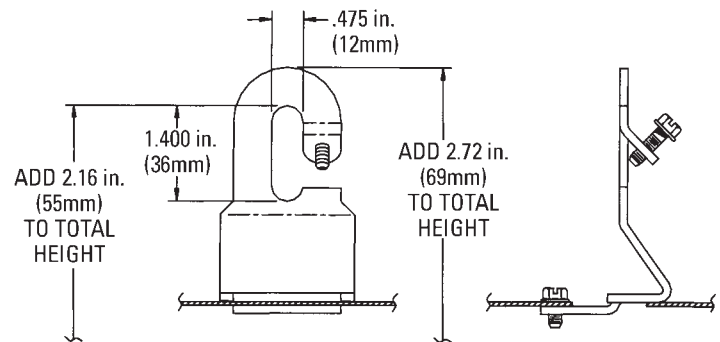
Wattage	Light Source	Ballast Type / Voltage		
		60HZ		
		Trivolt	120, 277, 480	120, 277, 480
1000*	MH/HPS	A	A	A

CHARGER INDOOR LIGHTING

Steel Hook Mounting Option



Steel Hook as referred to in Mounting Code



Steel hook for use with steel 1-in. diameter eye bolt.
Not for use with LOOPM or LOOPF

When steel hook is ordered, it is supplied factory installed in lieu of threaded 3/4" twist-on housing. Cord exits side of ballast housing.

Note: To order as an accessory use catalog number - **HOOKS**.

Note: For field installed hook, cord, plug, see accessories.

CPB CHARGER™ PRISMATIC LUMINAIRE

High Bay/Low Bay, Open or Enclosed



APPLICATIONS

- Commercial and retail areas, assembly lines, inspection areas, production bays, storage and warehouse areas

SPECIFICATION FEATURES

- 1598 Certified for Indoor Locations
- Certified for Indoor Locations
- UV Stabilized acrylic reflector
- Heavy-duty steel ballast housing with standard white paint finish
- Easy to install, threaded, hanger hub
- Optional steel hook for use with eye bolt hanging
- Bracket mount version allows for field adjustable light distribution - flexible spacing criterion (SC)
- Flush mounted version with conical lens for low bay applications
- Safety chain provisions
- Mogul base socket - E39 standard
- Shipped as components: Ballast, Optical.
- 2 Year Standard warranty
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

CPB	W	40	M	0	A	V2	NA	12	Q
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
CPB = Charger Prismatic Luminaire	W = White	25 = 250 32 = 320 40 = 400	M = MH S = HPS P = pulse start MH	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg	V2 = Open, ventilated 22-in. bracket-mount Acrylic Prismatic Reflector C2 = 22-in. flush-mount Acrylic Prismatic Reflector with conical lens (included) Note: Do not use open opticals with lamps specified for use in enclosed fixtures only. Note: Lens assemblies available.	NA = Not Applicable	12 = Pendant mounting with Charger hanger hub 15 = Aluminum Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 36 = Hook - Steel with 3 ft (0.9 meters) #16/3 Cord and NEMA Plug MODULAR PREWIRE 45 = ACS with 3-ft (0.9 meters) cord & Steel-Hook 55 = Sentinel with 3-ft (0.9 meters) cord & Steel-Hook 65 = ACS with 6-ft (1.8 meters) cord & Steel-Hook 66 = Sentinel with 6-ft (1.8 meters) cord & Steel-Hook Note: Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF G4 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE-LT (no phase selection required) G5 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (A phase) G6 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (B phase) G7 = GELS BayFlex Modular with 6 ft cord & Steel Hook - Bay Flex GE HLA (C phase)	F = Fusing Q = Non-Time Delay Automatically Switch Quartz S = Exclusionary mogul base socket for MH open fixtures T = E40 / European Socket Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

V2 OPTICAL - Open & Ventilated Bracket Mounted 22 in. Reflector MH, requires "S" Option EX39 base socket

Wattage	Light Source	Ambient °C	Spacing Criterion	Socket Position	Photometric Curve
250, 320*	MH,P	55	0.6	HPS-W	452052
250, 320*	MH (Coated)	55	0.8	HPS-W	452053
400	MH,P	55	1.0	MH-W	452054
400	MH,P	55	1.4	HPS-W	452056
400	MH (Coated)	55	1.0	MH-N	452055
400	MH (Coated)	55	1.5	HPS-W	452057
250	HPS	55	0.7	HPS-N	452078
250	HPS	55	0.9	HPS-W	452079
400	HPS	55	0.9	HPS-N	452080
400	HPS	55	1.0	HPS-W	452081

C2 OPTICAL - Flush Mounted 22-in. Reflector with Acrylic Prismatic Conical Lens

Wattage	Light Source	Ambient °C	Spacing Criterion	Reflector Position	Photometric Curve
250, 320*	MH (Coated)	55	1.9	Fixed	452075
400	MH (Coated)	40	2.3	Fixed	452076

*320 watt is ED Pulse Start MH

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.
See Page I-142 for Component Ordering Logic.
See Page I-153 for Explanation of Options and Other Terms Used.

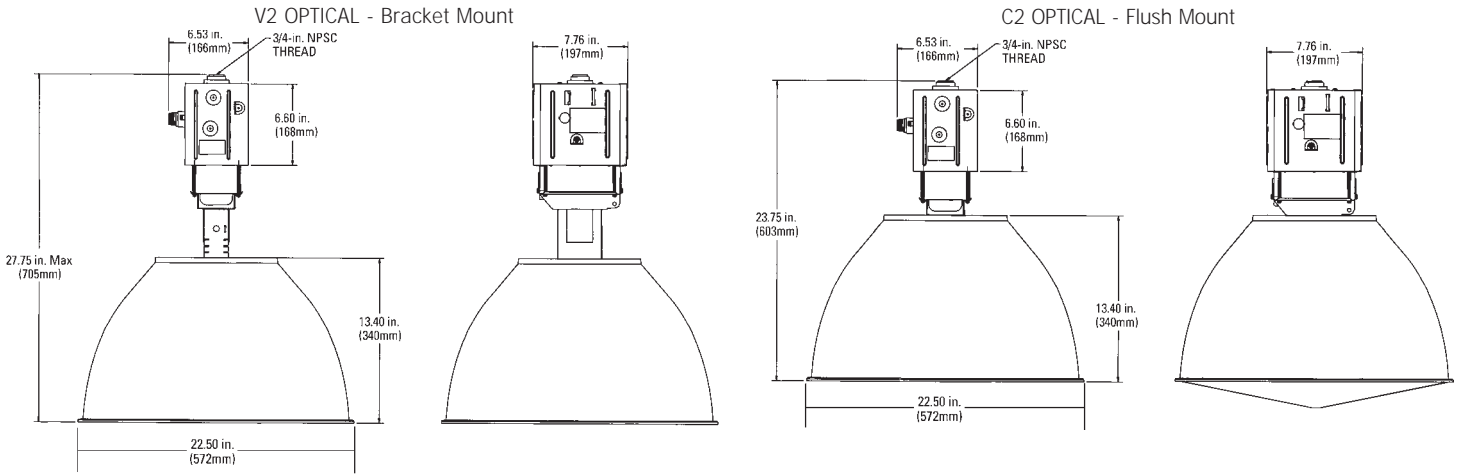
CHARGER INDOOR LIGHTING

I

CPB CHARGER™ PRISMATIC LUMINAIRE

High Bay/Low Bay, Open or Enclosed

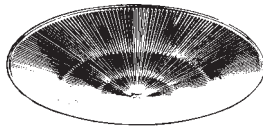
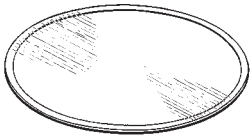
FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 21-25	kgs 9.5-11.5
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Door Assemblies (Order Separately)



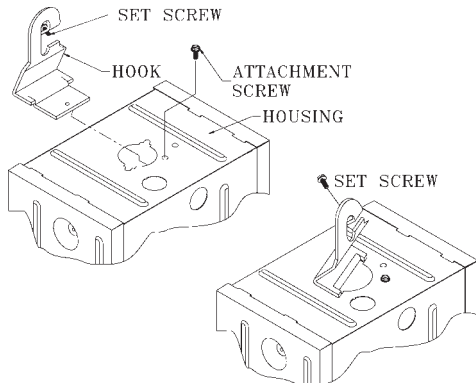
• EAL2-GHBP

Clear acrylic lens for 22-in. (559mm) optical (40°C max. ambient on 400 watt fixtures)

• EAPL2-GHBP

Clear acrylic prismatic conical lens for 22-in. (559mm) optical (40°C max. ambient on 400 watt fixtures)

Steel Hook Mounting Option



When steel hook is ordered, it is supplied factory installed in lieu of threaded 3/4" twist-on housing. Cord exits side of ballast housing.

Note: For field installed hook, cord, plug, see accessories.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ					50HZ			
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A	A	A	A	C/F	C/F	C/F	C/F	C/F
400	HPS	A	A	A	A	C/F	C/F	C/F	C/F	C/F
250	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F
400	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F

PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE

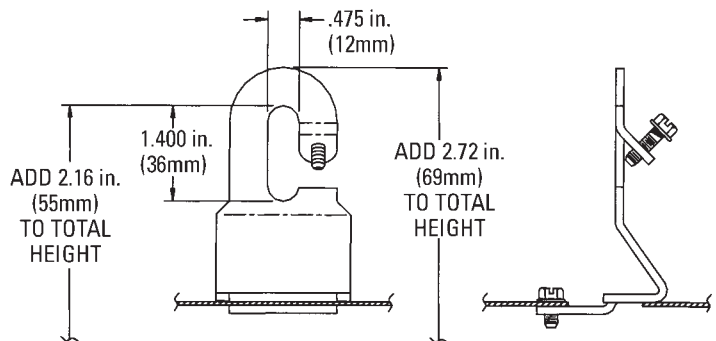
250	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	C/F	N/A
350	P (MH)	A	A*	C/F	C/F	C/F	C/F	C/F	C/F	N/A
400	P (MH)	A	A*	A	C/F	C/F	C/F	C/F	C/F	C/F

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- *480 volt, Consult Factory
- 1. "A", Autoreg available 120, 277 or 347 volts only
- 2. Multivolt not available.

Steel Hook as referred to in Mounting Code



Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF

Note: To order as an accessory use catalog number - HOOKS.



CLB CHARGER™ LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- For 10 - 25 ft. (3-8 meter) applications in warehouses, assembly plants, material handling, maintenance, manufacturing, inspection and other areas where economical and energy-efficient light sources are important

SPECIFICATION FEATURES

- 1598 Certified for Indoor Locations
- Listed for metal halide lamps in polymeric lamp containment barriers
- Certified for Indoor Locations
- UV Stabilized injection molded prismatic refractor for low brightness
- Heavy-duty steel ballast housing with standard white paint finish
- Optional steel hook for use with eye bolt hanging
- Easy to install, threaded, hanger hub
- Alzak[†] finish on reflector
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- 1 Year Standard warranty
- *Pulse start system for metal halide available. See Page I-155*

CHARGER INDOOR LIGHTING

ORDERING NUMBER LOGIC

CLB	W	40	M	0	A	EA	NA	12	Q
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
CLB = Charger Low Bay Luminaire	W = White	25 = 250 32 = 320 40 = 400	S = HPS M = MH or P = Pulse Start MH	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg	EA = Enclosed Acrylic	NA = Not Applicable	12 = Pendant mounting with Charger hanger hub 15 = Aluminum Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 36 = Hook - Steel with 3 ft.(0.9 meters) #16/3 Cord and NEMA Plug MODULAR PREWIRE 45 = ACS with 3-ft (0.9 meters) cord & Steel-Hook 55 = Sentinel with 3-ft (0.9 meters) cord & Steel-Hook 65 = ACS with 6-ft (1.8 meters) cord & Steel-Hook 66 = Sentinel with 6-ft (1.8 meters) cord & Steel-Hook Note: Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF Note: For flush mount prismatic low bay, see Charger Prismatic offering	F = Fusing Q = Non-Time Delay Automatically Switch Quartz T = E40 / European Socket Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

EA OPTICAL - Enclosed Acrylic				
Wattage	Light Source	Ambient °C	Spacing Criteria	Photometric Curve
250	HPS	55	2.1	451919
400	HPS	40	2.0	451918
250, 320*	MH,P	55	1.8	451921
400	MH,P	40	2.1	451920

*320 watt, ED28 Pulse Start MH

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

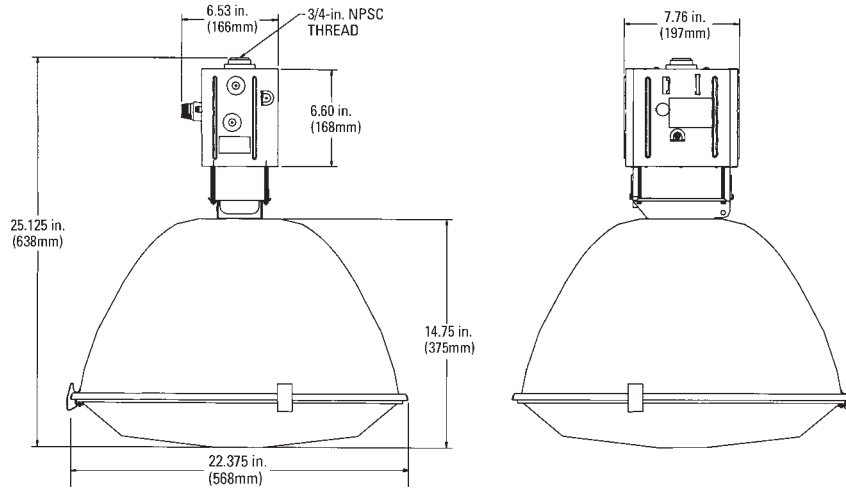
GE Lighting Systems, Inc.

www.gelighting.com

CLB CHARGER™ LUMINAIRE

Low Bay, Enclosed

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs	kgs
	32	14.5

BALLAST SELECTION TABLE

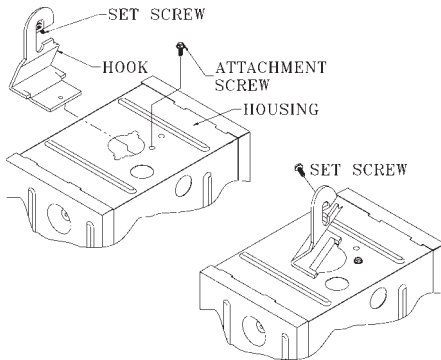
Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A	A	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F
400	MH	A	A	A	A	C/F	C/F	C/F	C/F	C/F
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A
320	P (MH)	A	A*	C/F	N/A	N/A	N/A	N/A	N/A	N/A
350	P (MH)	A	A*	C/F	N/A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A	A	A	C/F	C/F	C/F	C/F	N/A

NOTE: N/A = Not Available
C/F = Contact Factory

CANADIAN NOTES:

- "A", Autoreg available 120, 277 or 347 volts only
- Multivolt not available.
- * Consult Factory for 480 volt

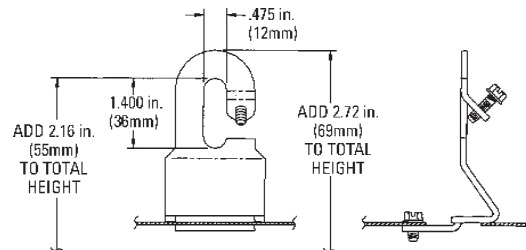
Steel Hook Mounting Option



When steel hook is ordered, it is supplied factory installed in lieu of threaded 3/4" twist-on housing. Cord exits side of ballast housing.

Note: For field installed hook, cord, plug, see accessories.

Steel Hook as referred to in Mounting Code



Steel hook for use with steel 1-in. diameter eye bolt. Not for use with LOOPM or LOOPF

Note: To order as an accessory use catalog number - **HOOKS**.





JR. VERSABEAM™ LUMINAIRE — HID

Low Bay, Enclosed

APPLICATIONS

- For 8 to 16 ft. (2 to 4 meter) mounting heights.
- For applications requiring high efficiency and optimized vertical and horizontal light levels.
- Industrial, commercial and retail low bay applications, including multipurpose commercial, aisle lighting, display shelving, walkways, and parking garages.

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Damp Locations**
- 1598 Listed suitable for wet locations depending on mounting configuration ordered
- Listed to Canadian standards and codes
- Sleek, clean housing with teardrop refractor has a low profile and is architecturally appealing
- Available in custom colors for architectural design considerations
- Decorative stripe adds custom color designs to the high quality die cast housing
- Pulse Metal Halide, Ceramic MH, Metal Halide, HPS
- Lamp included: Medium base with HID, Mogul where listed
- Photometrics provide optimum light levels on vertical and horizontal surfaces
- Advanced refractor technology minimizes glare while maximizing light efficiency
- Mounting options provide flexibility and ease of installation
- Excellent choice for spaces with numerous obstructions
- Sealed optics allow for use in wet locations and dirty environments

ORDERING NUMBER LOGIC

JVD	17	M	0	A	4	A5	WH	N	02	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL	HOUSING COLOR	STRIPE COLOR	MOUNTING	OPTIONS
XXX	XX	X	X	X	X	XX	XX	X	X	X
JVS = Jr. Versabeam with standard ceiling mounting	HID 03 = 35 05 = 50 07 = 70 10 = 100 15 = 150 (55V)	K = Ceramic Metal Halide M = MH S = HPS P = Pulse Start MH	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	See Ballast Selection Table A = Autoreg H = HPF Reactor or Lag K = Hot Restart (Mogul base socket)	4 = 40	A5 = Acrylic Type V Clear Lamp C5 = Acrylic Type V Coated Lamp AA = Acrylic Asymmetrical Clear Lamp	Standard WH=White GR= Gray Electro Coat BL= Black RD= Fire Red BU= Vivid Blue GN= Forest Green YE= Yellow (See NOTE below)	N = None 1 = White 2 = Black 3 = Red 4 = Blue 5 = Green 6 = Yellow See NOTE below.	JVS 01 = Ceiling Mount Wet Location JVD 01 = MPM-C Damp Locations 02 = MPM-3PR* Damp Locations 03 = MPM-3PRW* Wet Locations 04 = MPM-3PF Damp Locations 05 = MPM-3PRTFW* wet Locations 06 = MPM-WWV Wet Locations Note: • See page I-134 for MPM descriptions of JVD mounting adapters. • Mounting adapters included with fixture JVP 01 = 3/4" Rigid pendant* Wet Locations 04 = 3/4" Flex Pendant (Externally adjustable) Wet Location 15 = Prewire with Loop, Cord and plug part of "Power Hook" Order Receptacle Hook Box Separately. Damp Locations (Not CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16-3 Cord and Nema Plug. Damp Locations * JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.	B = Time Delay Automatically Switch Quartz F = Fusing Q = Non-Time Delay Automatically Switch Quartz Y = Solo Bilevel Port (See page I-126) Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

A5 & P5 OPTICAL - Enclosed Acrylic/Polycarbonate Type V Clear Lamp

Wattage	Socket Size	Light Source	Spacing Criteria	Curve Number
70	Medium	MH	1.4	451618
100	Medium	MH	1.4	451619
150	Medium	MH, P	1.4	451620
175	Medium	MH, P	1.4	451606
250	Mogul	MH, P	1.4	452479
70	Medium	Ceramic MH	1.2	451609
100	Medium	Ceramic MH	1.4	451623
50	Medium	HPS	1.5	451610
70	Medium	HPS	1.4	451611
100	Medium	HPS	1.5	451612
150	Medium	HPS	1.6	451613

C5 OPTICAL - Enclosed Acrylic Type V Coated Lamp

Wattage	Socket Size	Light Source	Spacing Criteria	Curve Number
70	Medium	MH	1.2	452477
100	Medium	MH	1.1	452478
175	Medium	MH, P	1.2	451608
250	Mogul	MH, P	1.2	452481

AA & AP OPTICAL - Enclosed Acrylic/Polycarbonate, Asymmetrical, Clear Lamp

Wattage	Socket Size	Light Source	Spacing Criteria	Curve Number
150	Medium	HPS	SS2	452872
175	Medium	MH, P	SN2	452873

Note: C/F = Call Factory

Note: See page T-34 for Alternative lens material explanation

HOUSING COLOR NOTE:

Colors listed above correspond to the following RAL equivalent:

White	= RAL 9016
Black	= RAL 9017
Fire Red	= RAL 3001
Vivid Blue	= RAL 5005
Forest Green	= RAL 6016
Yellow	= RAL 1023

Standard polyester powder paint finish applied over electrostatic anticorrosion underlayer. Gray (GR) offered in e-coat as standard.

JR. VERSABEAM INDOOR LIGHTING

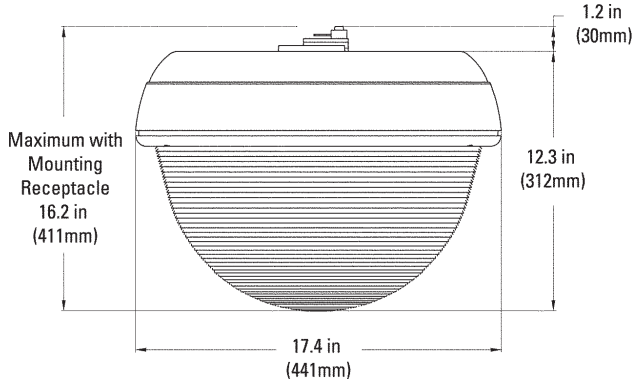


JR. VERSABEAM™ LUMINAIRE — HID

Low Bay, Enclosed

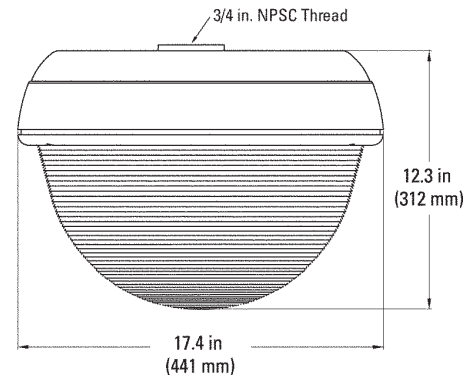
FIXTURE DIMENSIONS

JVD Sliding Disconnect Mounting

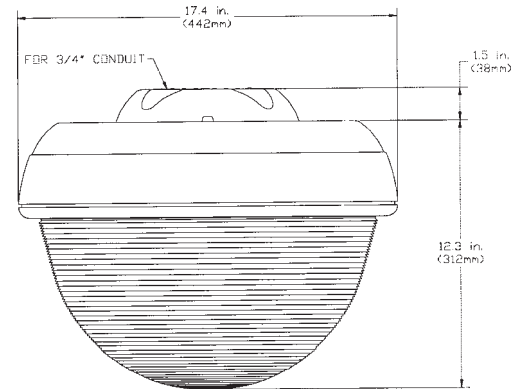


NOTE: *JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.

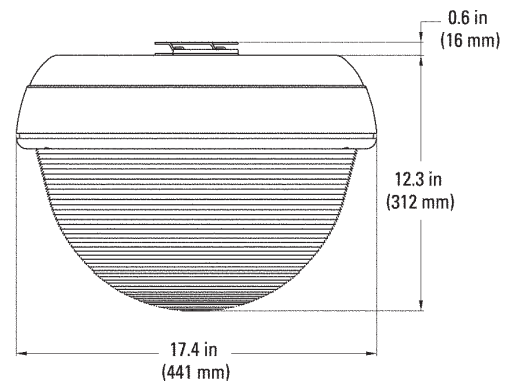
JVP-1 Pendant Mounting



JVP-4 Flexible Pendant Mounting



JVS Surface Mounting



DATA

Approximate Net Weight	lbs	kgs
Total Fixture	16-20	10-11

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type and Voltage											
		60 hz								50 hz			
		Multi	120	208	220	240	277	347	480	110	220	230	240
35	HPS	-	H	-	-	-	-	-	-	-	-	-	-
50	HPS	H	H	H	H	H	H	H	H	H	H	H	H
70	HPS	A,H,K	A,H,K	A,K	A	A,K	A,K	A	H,A	-	H	H	H
100	HPS	A,H	A,H,K	A	H	A	A	A	A	-	H	H	H
150 (55v)	HPS	A,H,K	A,H,K	A,K	A	A,K	A,K	A	A	-	H	H	H
70	Cer. MH	H	H	H	H	H	H	H	H	H	H	H	H
100	Cer. MH	H	H	H	H	H	H	H	H	H	H	H	H
70	MH	H	H	H	H	H	H	H	H	H	H	H	H
100	MH	H	H	H	H	H	H	H	H	H	H	H	H
175	MH	A	A	A	A	A	A	A	A	A	A	A	A
250	MH	A	A	A	A	A	A	A	A	-	-	-	-
150	PLS MH	-	H	H	-	H	H	H	-	-	-	-	-
175	PLS MH	-	A	A	-	A	A	A	-	-	-	-	-
250	PLS MH	A	A	A	-	A	A	A	-	-	-	-	-

Ballast Type	Light Source
A = Auto Reg	HPS = High Pressure Sodium
H = HPF Reactor or Lag	MH = Metal Halide
K = Hot Restrike	PLS MH = Plulse Start Metal Halide

All HID light sources are clear unless otherwise indicated.

REFERENCES

See Page I-128 for start of Accessories.

See Pages I-153 for Explanation of Options and Other Terms Used.



L4MD LOWMOUNT® 400 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- For 10-25 ft. (3-8 meter) applications in factories, foundries, canneries and textile, metal, chemical, rubber, food, cement, and other industrial applications

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Damp Locations**
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian Standards
- Standard construction is IP52 Wet location option meets IP54
- Enclosed and gasketed optics
- Efficient Vertical "Base Up" Socket on "L4MU"
- Low Glare Vertical "Base Down" Socket on "L4MD"
- Charcoal filtered optics
- Alzak[†] finish on reflector
- Threaded hub for easy mounting
- Die-cast aluminum ballast housing with electrocoat gray paint finish
- UV stabilized injection molded prismatic refractor for low brightness
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

L4MD	40	M	0	A	5	17	AD	B
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	SPACING CRITERIA	OPTICAL CODE	OPTIONS
XXXX	XX	X	X	X	X	XX	XX	X
L4MU = Lowmount 400 Luminaire (Lamp Base Up)	25 = 250 40 = 400	M = MH S = HPS P = Pulse Start MH	60Hz 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag L = Super Low Loss Autoreg M = Mag-Reg P = CWI with Grounded Socket Shell	4 = 40 5 = 55	15 = 1.5 17 = 1.7 19 = 1.9	See Lens Material Table and Optical Selection Table	B = Time Delay Automatically Switch Quartz D = Severe Duty (Meets Wet location) E = Provision for slide on Primary Electrical Disconnect. Order TWOBP Box (Thru feed capability only) separately. (Not available with D or W option). F = Fusing J = Rewire with Loop, cord, and plug part of Power Hook. Order Receptacle/Hook Box separately. (Not CSA/CUL) M = Rewire with Loop, 3-ft (0.9 meters) #16-3 Cord, and Nema Plug. (Order Locking Receptacle Hook Box Separately) N = Provision for slide on primary Electrical Disconnect. Order PED Box (Pendant and thru feed capability) separately. (Not available with D or W option) P = Rewire with Hook, 3-ft (0.9 meters) #16/3 Cord and Nema Plug Q = Non-Time Delay Automatically Switch Quartz W = Wet Location
L4MD = Lowmount 400 Luminaire (Lamp Base Down) with Optical Disconnect								
Note: Lamp is vertical base up. Lamp not included.								
Note: Lamp is vertical base down. Lamp not included.							See Optical Code table on next page.	

PHOTOMETRIC SELECTION TABLE

Lowmount 400					
Wattage	Light Source	Maximum Ambient	Spacing Criteria or IES Distribution Type	Photometric Curve Base-Up	Photometric Curve Base-Down
250	HPS	55C	1.9	175935	175089
400	HPS	55C	1.9	175935	175089
250	MH	55C	1.7	177700	N/A
400	MH	55C	1.7	177891	175087
400	MH(Coated)	55C	1.5	177892	175557
400	PMH	55C	1.7	177891	175087
400	PMH(Coated)	55C	1.5	177892	175557

LOWMOUNT INDOOR LIGHTING



L4MD LOWMOUNT® 400 LUMINAIRE

Low Bay, Enclosed

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight Ballast and Optical	lbs	42-53	kgs	19-24
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ				50HZ			
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
250	HPS	A,M	A,G,L,M	A,G,L	A	A	A	A	A	M
400	HPS	A,M	A,G,L,M	A,G,L	A	N/A	A	A	A	M
250	MH	A	AL	A	A	A	A	A	A	N/A
400	MH	A	AL	A	A	A	A	A	A	N/A
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE										
250	P (MH)	A	A,G,M	A,G	A	N/A	N/A	N/A	N/A	N/A
400	P (MH)	A	A*,G,M	A,G	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available
* 480 volt not available

CANADIAN NOTES:

- "A", Autoreg available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

LENS SELECTION TABLE

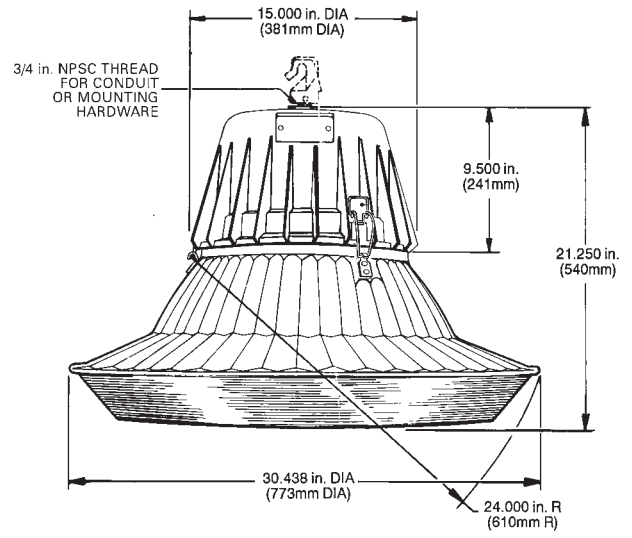
STANDARD ACRYLIC

Optical Code	Material	Optical Configuration
AN	Standard Acrylic	Base-Up Lamp
AC	Standard Acrylic	Base-Up Lamp w/Optical Disconnect
AT	Standard Acrylic	Base-Up Lamp w/Relamp Door
AD	Standard Acrylic	Base-Down Lamp

ADVANCED "ST" HID ACRYLIC (Enhanced Lamp Containment & Reduced Yellowing)

Optical Code	Material	Optical Configuration
SN	Advanced "ST" HID Acrylic	Base-Up Lamp
SC	Advanced "ST" HID Acrylic	Base-Up Lamp w/Optical Disconnect
SD	Advanced "ST" HID Acrylic	Base-Up Lamp w/Relamp Door
ST	Advanced "ST" HID Acrylic	Base-Down Lamp

FIXTURE DIMENSIONS



LOWMOUNT INDOOR LIGHTING

OPTICAL SELECTION TABLE

LOWMOUNT 400

Wattage	Light Source	Base-Up Lamp			Base-Down Lamp
250	HPS	AN, SN	AC, SC	AT, ST	AD, SD
400	HPS	AN, SN	AC, SC	AT, ST	AD, SD
250	MH	AN, SN	AC, SC	-----	-----
400	MH	AN, SN	AC, SC	AT, ST	AD, SD

See page T-34 for Alternative lens material explanation.



L1M LOWMOUNT® 150 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Low mounting height 8-20 ft. (2-6 meters) applications in factories, foundries, canneries and textile, metal, chemical, rubber, food, cement, and other industrial applications

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian Standards
- Enclosed and gasketed optics
- Charcoal filtered optics
- Alzak' finish on reflector
- Die-cast aluminum ballast housing with electrocoat gray paint finish
- UV stabilized injection molded prismatic refractor for low brightness
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast.

ORDERING NUMBER LOGIC

L1M	25	S	0	A	4	17	TA	D
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	SPACING CRITERIA	OPTICAL CODE	OPTIONS
XXX	XX	X	X	X	X	XX	XX	X
L1M = Lowmount 150 Luminaire	07 = 70 10 = 100 15 = 150 17 = 175 25 = 250 (55V)	S = HPS M = MH NOTE: Lamp is tilted base up 20° above horizontal except 175 watt metal halide is vertical base up. Lamp not included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 50Hz 6 = 220 R = 230 Y = 240	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg	4 = 40 5 = 55 NOTE: Limit 40°C for 250 watt and all severe duty	15 = 1.5 17 = 1.7	TA = Enclosed Acrylic SA = Enclosed Advanced "ST" HID Acrylic	B = Time Delay Automatically Switch Quartz D = Severe Duty (Meets Wet location) E = Provision for slide on Primary Electrical Disconnect. Order TWOBP Box (Thru feed capability only) separately. (Not available with D or W option). F = Fusing J = Rewire with Loop, cord, and plug part of Power Hook. Order Receptacle/Hook Box separately. (Not CSA/CUL) M = Rewire with Loop, 3-ft (0.9 meters) #16-3 Cord, and Nema Plug. (Order Locking Receptacle Hook Box Separately) N = Provision for slide on primary Electrical Disconnect. Order PED Box (Pendant and thru feed capability) separately. (Not available with D or W option) P = Rewire with Hook, 3-ft (0.9 meters) #16/3 Cord and Nema Plug Q = Non-Time Delay Automatically Switch Quartz W = Wet Location

PHOTOMETRIC SELECTION TABLE

Lowmount 150				
Wattage	Light Source	Maximum Ambient	Spacing Criteria or IES Distribution Type	Photometric Curve
70, 100, 150	HPS	55C	1.7	175762
250	HPS	40C	1.7	175851
175	MH	55C	1.7	175838
250	MH	40C	1.5	177180
175	MH(Coated)	55C	1.5	175916
250	MH(Coated)	40C	1.5	175839

Note: See page T-34 for Alternative lens material explanation

Note: See page I-128 for Accessory Index and Descriptions.
Note: See page I-153 for explanation of Options.

LOWMOUNT INDOOR LIGHTING

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L1M LOWMOUNT® 150 LUMINAIRE

Low Bay, Enclosed

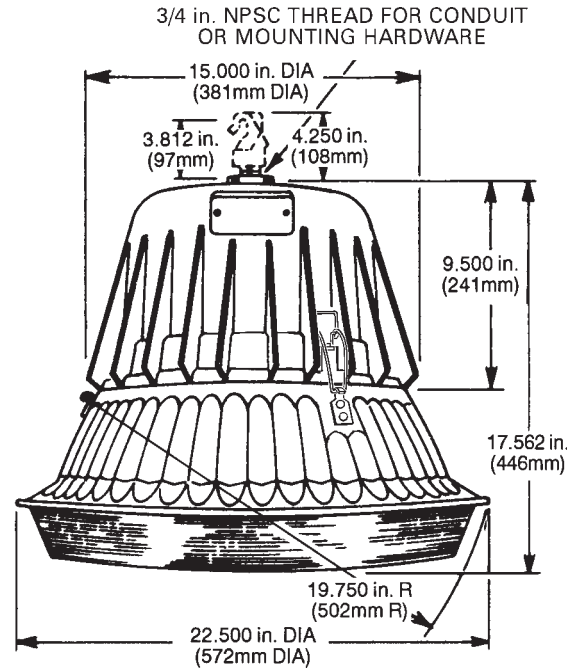
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



LOWMOUNT INDOOR LIGHTING



DATA

Approximate Net Weight Ballast and Optical	lbs 25-33	kgs 11-15
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		60HZ					50HZ				
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
70	HPS	A,H,K	G,K,M	H,G	H	N/A	N/A	N/A	N/A	N/A	
100	HPS	A,H,K	G,K,M	H,G	H	N/A	N/A	N/A	N/A	N/A	
150(55V)	HPS	A,H,K	G,K,M	H,G	H	N/A	N/A	N/A	N/A	N/A	
250	HPS	M	M,G	A,G	A	N/A	A,H	A,H	A,H	M	
175	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	A	N/A	A	A	A	N/A	

NOTE: N/A = Not Available
* 480 volt not available

CANADIAN NOTES:

- "A", Autoreg, 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.



C4S CONSERVA® 400 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Low mounting height 10-25 ft. (3-8 meter) applications, assembly lines, manufacturing areas, food processing plants, warehouses and parking garages

SPECIFICATION FEATURES

- **UL** 1598 Listed **Suitable for Wet or Damp locations** depending on mounting hardware used.
- **UL** 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- CUL Listed to Canadian Standards & Codes
- Standard construction is IP52
- Die-cast aluminum ballast housing and aluminum reflector painted white (C4SW)
- Die-cast aluminum ballast housing with electrocoat gray paint finish and aluminum reflector with Alzak† finish (C4S)
- Maximum seal reliability for clean optical component
- UV stabilized injection molded prismatic refractor for low brightness with clampband
- Primary quick disconnect for easy mounting
- Safety chain provisions
- Mogul base socket -E39 standard
- Shipped as components: Ballast, Optical
- Magnapack available for ballast
- *Pulse start system for metal halide available. (See Page I-155)*

ORDERING NUMBER LOGIC

C4S	40	S	0	A	4	EA	2	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	X	X
C4S = Conserva 400 Luminaire	17 = 175 25 = 250 32 = 320 35 = 350 40 = 400	S = HPS M = MH or P = Pulse Start MH	60Hz 0 = 120/208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 G = 380	See Ballast Selection Table A = Autoreg	4 = 40 5 = 55	EA = Enclosed Acrylic Refractor SA = Enclosed Advanced "ST" HID Acrylic WA = Enclosed Acrylic w/white reflector WS = Enclosed "ST" Acrylic w/ white reflector	1 = Ceiling (MPM-C) 250 watt max 2 = 3/4-in. Pendant, Rigid* (MPM-3PR) 3 = 3/4-in. Pendant, Rigid, Wet Locations* (MPM-3PRW) 4 = 3/4-in. Pendant, Rigid, with Thru Feed, Wet Locations* (MPM-3PRTFW) 5 = 3/4-in. Pendant, Flexible (MPM-3PF) 6 = Outlet Box Cover (MPM-OBC) 250 watt max	B = Time Delay Automatically Switch Quartz F = Fusing Q = Non-Time Delay Automatically Switch Quartz Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options. Note: Wet location determined by mounting receptacle
C4SW = Conserva 400 Luminaire with reflector (inside/outside) and Ballast Housing painted white		Note: Lamp is vertical base up. Lamp not included.						

*NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted or fixture will not hang straight.

CONSERVA INDOOR LIGHTING



PHOTOMETRIC SELECTION TABLE

EA, SA Enclosed Conserva 400 (C4S)				
Wattage	Light Source	Maximum Temperature	Spacing Criteria	Photometric Curve #
175	MH	40C	2.3	177597
175(COATED)	MH	40C	1.9	177598
250	MH	40C	2.3	177597
250(COATED)	MH	40C	1.9	177598
400	MH	40C	2.3	177597
400(COATED)	MH	40C	1.9	177598
175,250	P(MH)	40C	2.3	177597
175,250(COATED)	P(MH)	40C	1.9	177598
320*	P(MH)	40C	2.3	177597
320*(COATED)	P(MH)	40C	1.9	177598
350	P(MH)	40C	2.3	177597
350(COATED)	P(MH)	40C	1.9	177598
250	HPS	55C	2.2	177596
400	HPS	40C	2.2	177596

*320 watt, ED28 Pulse Start MH
Note: C/F = Call Factory
Note: See page T-34 for Alternative lens material explanation

PHOTOMETRIC SELECTION TABLE

WA, WS Enclosed Conserva 400 (White Reflector) (C4SW)				
Wattage	Light Source	Maximum Temperature	Spacing Criteria	Photometric Curve #
175	MH	40C	1.8	452951
175(COATED)	MH	40C	1.7	452950
250	MH	40C	1.8	452953
250(COATED)	MH	40C	1.7	452952
400	MH	40C	2.0	178678
400(COATED)	MH	40C	C/F	C/F
175,250	P(MH)	40C	2.0	178678
175,250(COATED)	P(MH)	40C	C/F	C/F
320*	P(MH)	40C	2.0	178678
320*(COATED)	P(MH)	40C	C/F	C/F
350	P(MH)	40C	2.0	178678
350(COATED)	P(MH)	40C	C/F	C/F
250	HPS	55C	2.0	178677
400	HPS	40C	2.0	178677

C4S CONSERVA® 400 LUMINAIRE

Low Bay, Enclosed

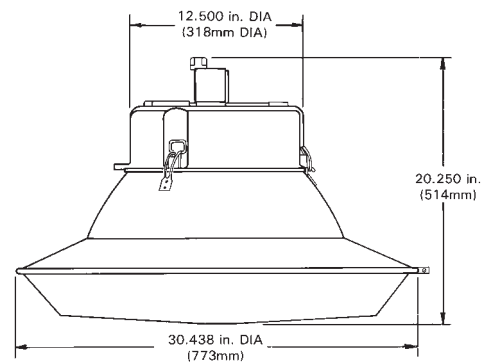
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



CONSERVA INDOOR LIGHTING



DATA

Approximate Net Weight Ballast and Optical	lbs 33-36	kg 15-16
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage									
		Multivolt	60HZ					50HZ			
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
250	HPS	A	A	A	A	N/A	A,H	A,H	A,H	N/A	
400	HPS	A	A	A	A	N/A	A	N/A	N/A	N/A	
175	MH	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	MH	A	A	A	A	A	N/A	N/A	N/A	N/A	
400	MH	A	A	A	A	A	N/A	N/A	N/A	N/A	
PULSE START METAL HALIDE LIGHT SOURCE BALLAST SELECTION TABLE											
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A	
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A	
320	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	
350	P (MH)	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	

NOTE: N/A = Not Available

CANADIAN NOTES:

1. "A", Autoreg, available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Contact factory.
3. Multivolt not available.



C1S CONSERVA® 150 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Low mounting height 8-20 ft. (2-6 meter) applications, assembly lines, manufacturing areas, food processing plants, warehouses and parking garages, other industrial applications

SPECIFICATION FEATURES

- **UL** 1598 Listed **Suitable for Wet or Damp locations** depending on mounting receptacle used
- **UL** 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- CUL Listed to Canadian Standards & Codes
- Standard construction is IP52
- Maximum seal reliability for clean optical component
- UV stabilized injection molded prismatic refractor for low brightness
- Die-cast aluminum ballast housing with electrocoat gray paint finish and aluminum reflector with Alzakt finish (**C1S**)
- Die-cast aluminum ballast housing and aluminum reflector painted white (**C1SW**)
- Primary quick disconnect for easy mounting
- Mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Mounting Receptacle
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

C1S	25	M	0	A	4	TA	2	B
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	X	X
C1S = Conserva 150 Luminaire	07 = 70 10 = 100 15 = 150 17 = 175 25 = 250 (55V)	S = HPS M = MH K = Ceramic MH P = Pulse Start MH	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 Y = 240 G = 380	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg	See Ballast and Photometric Selection Tables 4 = 40 5 = 55	TA = Enclosed Acrylic TS = Enclosed Advanced "ST" HID Acrylic	1 = Ceiling (MPM-C) 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* 3 = 3/4-in. Pendant, Rigid, Wet Locations (MPM-3PRW)* 4 = 3/4-in. Pendant, Rigid, with Thru Feed, Wet Locations (MPM-3PRTFW)* 5 = 3/4-in. Pendant, Flexible (MPM-3PF) 6 = Outlet Box Cover (MPM-OBK)	B = Time Delay Automatically Switch Quartz F = Fusing Q = Non-Time Delay Automatically Switch Quartz Y = Solo Bilevel Port (See page I-126) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options. Note: Wet location determined by mounting receptacle
C1SW = Conserva 150 Luminaire with reflector (inside/outside) and ballast housing painted white		Note: Lamp is vertical base up. Lamp not included.						

*NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted or fixture will not hang straight.

PHOTOMETRIC SELECTION TABLE

CIS	Wattage	Light Source	Maximum Ambient	Spacing Criteria	Photometric Curve
70*	MH	40C	1.6	452584	
100*	MH	40C	1.7	452583	
175	MH	40C	1.7	175836	
175(COATED)	MH	40C	1.9	175924	
250	MH	40C	1.7	175836	
250(COATED)	MH	40C	1.9	175924	
70*	Ceramic MH	40C	1.6	452585	
100*	Ceramic MH	40C	1.7	452586	
150*	P(MH)	40C	1.6	452582	
175,250	P(MH)	40C	1.7	175836	
175,250(COATED)	P(MH)	40C	1.9	175924	
70,100	HPS	55C	1.8	175835	
150(55V)	HPS	55C	1.8	175835	
250	HPS	40C	1.8	175842	

* Medium base socket. (Lamp not included)

Note: C/F = Call Factory

Note: See page T-34 for Alternative lens material explanation

PHOTOMETRIC SELECTION TABLE

CISW	Wattage	Light Source	Maximum Ambient	Spacing Criteria	Photometric Curve
70, 100*	MH	40C	C/F	C/F	
175	MH	40C	2.0	178670	
175(COATED)	MH	40C	2.0	178671	
250	MH	40C	2.0	178670	
250(COATED)	MH	40C	2.0	178671	
70, 100*	Ceramic MH	40C	C/F	C/F	
150*	P(MH)	40C	C/F	C/F	
175,250	P(MH)	40C	2.0	178670	
175,250(COATED)	P(MH)	40C	2.0	178671	
70,100	HPS	55C	2.0	178669	
150(55V)	HPS	55C	2.0	178669	
250	HPS	40C	2.0	178668	

* Medium base socket. (Lamp not included)

CONSERVA INDOOR LIGHTING



C1S CONSERVA® 150 LUMINAIRE

Low Bay, Enclosed

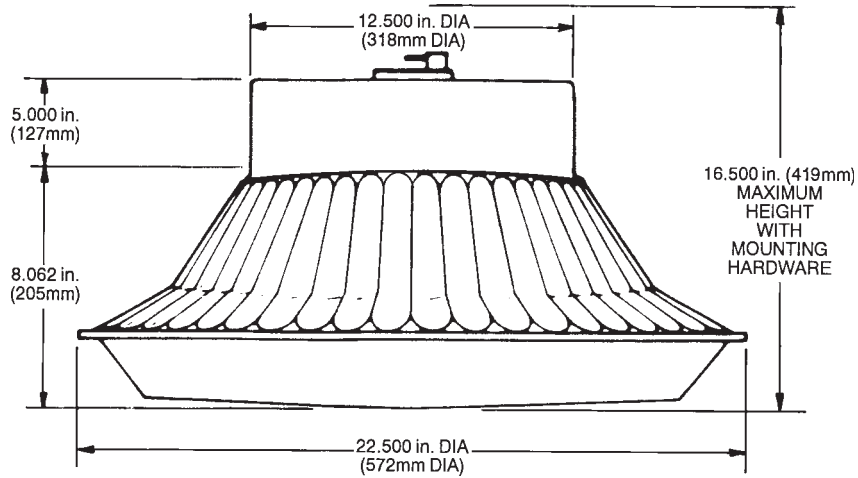
REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

FIXTURE DIMENSIONS



DATA

Approximate Net Weight Ballast and Optical	lbs 21-32	kgs 10-15
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BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
70	HPS	H,K	G,H**,K,M	G,H,K	H,K	N/A	N/A	M	N/A	N/A
100	HPS	H,K	G,H**,K,M	G,H,K	H,K	N/A	H,M	H,M	H	N/A
150(55V)	HPS	H,K	G,H**,K,M	G,H,K	H,K	A,M	H	H	H	N/A
250	HPS	A	A	A	A	N/A	H	HA	HA	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	N/A	N/A	N/A	N/A
PULSE START METAL HALIDE LIGHT SOURCE										
BALLAST SELECTION TABLE										
150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available
 * Medium base socket (Lamp not included)
 ** 480 Volt not available

CANADIAN NOTES:

- "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.



MGA MINI-GARD™ INDUSTRIAL LUMINAIRE

Low Bay, Enclosed or Open

APPLICATIONS

- Low mounting heights 8-20 ft. (2-6 meter) manufacturing assembly areas, commercial locations and parking garages

SPECIFICATION FEATURES

- 1598 Listed Suitable For Wet Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian standards and codes
- Multiple optical assemblies
- Multiple mounting arrangements
- Lamp type and wattage label
- Medium base socket -E26 standard
- Electro-epoxidized gray paint finish inside and outside
- Shipped as components: Ballast, Mounting, Optical, Accessories
- Low copper aluminum alloys
- Charcoal filter (enclosed units only)
- Safety chain provisions

ORDERING NUMBER LOGIC

MGA	17	M	0	A	4	3P	A5G	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	MOUNTING	OPTICAL	OPTIONS
XXX = MGA = Mini-Gard Luminaire General Non-Hazardous SUITABLE FOR WET LOCATIONS	XX = 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	X = HPS M = MH P = Pulse Start MH	X = 60Hz* 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	X = See Ballast Selection Table A = Autoreg H = HPF Reactor or Lag	X = 4 = 40	XX = 3C = 3/4 in. Ceiling 4C = 1 in. Ceiling 3F = 3/4 in. Flexible 4F = 1 in. Flexible 3P = 3/4 in. Pendant* 4P = 1 in. Pendant* 5S = 1-1/4 in. Straight stanchion 6S = 1-1/2 in. Straight stanchion 3W = 3/4 in. Wall 4W = 1 in. Wall * Note: Flexible pendant mounting cover must be used if unit is not rigidly mounted or fixture will not hang straight.	XX(X) = See Optical Eligibility and Photometric Selection Table Below A5G=12-in. (305mm) Acrylic Refractor Type V with Guard A5N=12-in (305mm) Acrylic Refractor Type V A2G=12-in. (305mm) Acrylic Refractor Type II with Guard A2N=12-in (305mm) Acrylic Refractor Type II GE= 14-in. (356mm) Borosilicate Glass Reflector Enclosed GV= 14-in. (356mm) Borosilicate Glass Reflector Open* AE= 16-in. (406mm) Acrylic Reflector Enclosed AV= 16-in. (406mm) Acrylic Reflector Open* *Do not use with lamps specified for use in enclosed fixtures only.	X = F = Fusing Q = Time Delay Automatically Switched Quartz Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

MINI-GARD INDOOR LIGHTING



OPTICAL AND PHOTOMETRIC SELECTION TABLE

	Clear Light Source				Coated Light Source			
	50, 70, 100, 150W(55V)HPS	70W MH	100W MH	175W MH & PMH	50, 70, 100, 150W(55V)HPS	70W MH	100W MH	175W MH&PMH
Mini-Gard Luminaire								
Acrylic Refractor Type V A5N	179733	179753	179745	179737	N/A	179757	179749	179741
Acrylic Refractor Type V with Guard A5G	179734	179754	179746	179738	179730	179758	179750	179742
Acrylic Refractor Type II A2N	179735	179755	179747	179739	179731	179759	179751	179743
Acrylic Refractor Type II with Guard A2G	179736	179756	179748	179740	179732	179760	179752	179744
Borosilicate Glass Reflector - Enclosed GE	450117	450119	450121	450123	450125	450127	450129	450131
Borosilicate Glass Reflector - Open GV	450118	450120	450122	N/A	450126	450128	450130	N/A
Acrylic Reflector - Enclosed AE	450133	450135	450137	450139	450141	450143	450145	450147
Acrylic Reflector - Open AV	450134	450136	450138	N/A	450142	450144	450146	N/A

MGA MINI-GARD™ INDUSTRIAL LUMINAIRE

Low Bay, Enclosed or Open

DIMENSIONS

See next page.

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weights

BALLAST HOUSING ASSEMBLY

Wattage	Pounds	Kilograms
50	14.0	6
70	13.0 - 19.2	6 - 9
100	13.5 - 20.5	6 - 9
150 (55V)	14.5 - 21.1	7 - 10
175	14.4 - 15.5	7

OPTICAL

A5G, A5N, A2G, A2N - Refractor	8.4	4
GE - Glass Reflector	17	8
GV - Glass Reflector	14	6
AE, AV - Acrylic Reflector	5.7	3

MOUNTINGS

3P/4P Pendant	3.0	1
3C/4C Ceiling	5.0	2
3F/4F Flexible Pendant	3.5	3
5S/6S Straight Stanchion	5.0	2
3W/4W Wall	8.0	3

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage							
		60Hz							
		Multivolt	120	208	240	277	480	120x347	347
50	HPS	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70, 100	HPS	H	H	H	H	H	A	H	H
150 (55V)	HPS	H	H	H	H	H	A	H	H
70*, 100	MH	H	H	H	H	H	H	H	H
175	MH	A	A	A	A	A	A	A	A
175	PMH	-	A	A	A	A	N/A	A	A

NOTE: Maximum ambient is 40° C unless otherwise indicated.

N/A = Not Available

* 70 watt MH not available in 120x347 volt

A = Autoreg

H = HPF Reactor or Lag





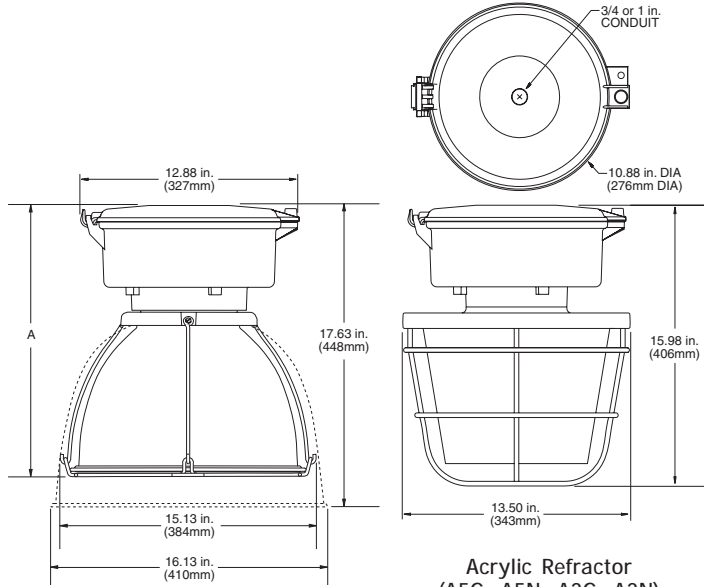
MGA MINI-GARD™ INDUSTRIAL LUMINAIRE

Low Bay, Enclosed or Open

FIXTURE DIMENSIONS

PENDANT MOUNT

Reflector:	A (inches)	A (mm)
Open Glass (GV)	15.88	403
Closed Glass (GE)	16.50	419

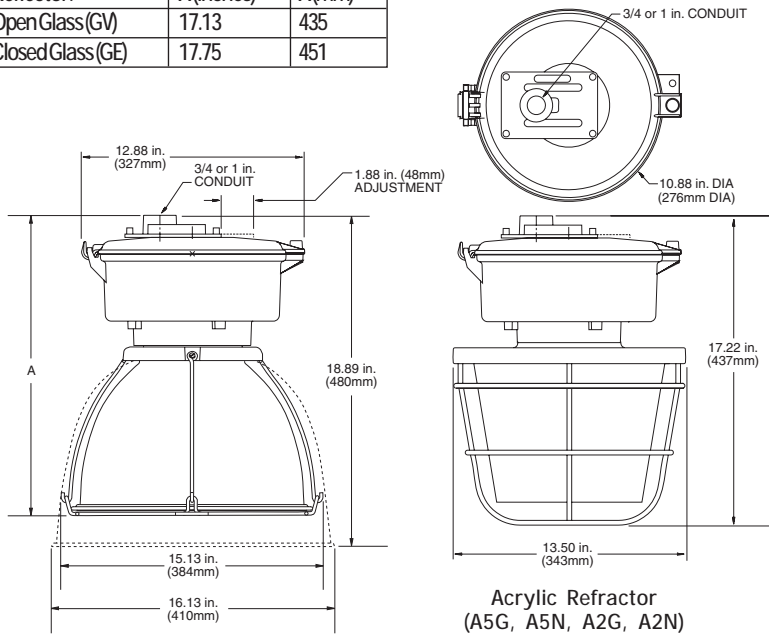


Glass Reflector (GE, GV)
Dotted Line (---) = Acrylic Reflector (AE, AV)

Acrylic Refractor
(A5G, A5N, A2G, A2N)

FLEXIBLE PENDANT MOUNT

Reflector:	A (inches)	A (mm)
Open Glass (GV)	17.13	435
Closed Glass (GE)	17.75	451



Glass Reflector (GE, GV)
Dotted Line (---) = Acrylic Reflector (AE, AV)

Acrylic Refractor
(A5G, A5N, A2G, A2N)

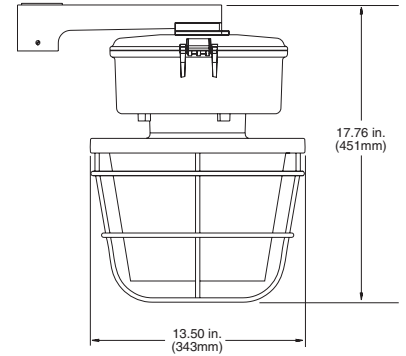
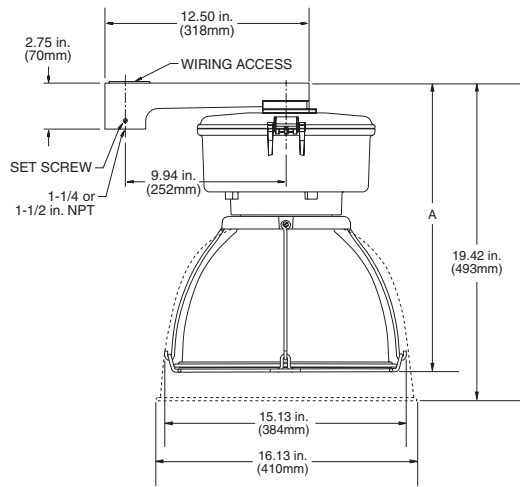
MGA MINI-GARD™ INDUSTRIAL LUMINAIRE

Low Bay, Enclosed or Open

FIXTURE DIMENSIONS

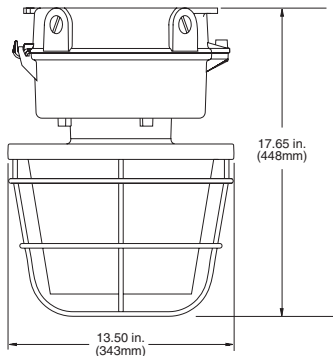
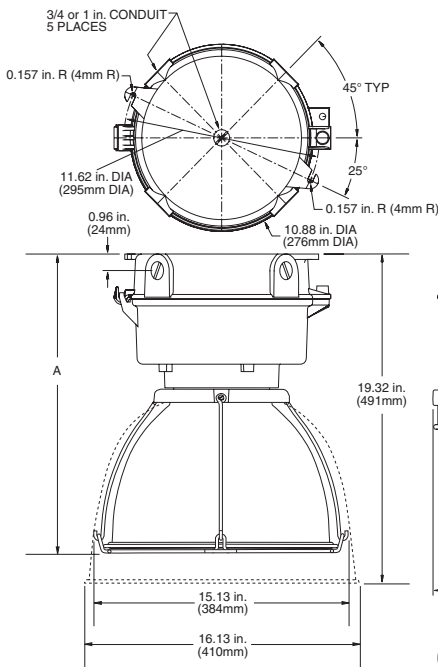
STRAIGHT STANCHION MOUNT

Reflector:	A(inches)	A(mm)
Open Glass(GV)	17.67	449
Closed Glass(GE)	18.30	



Glass Reflector (GE, GV)
Dotted Line (---) = Acrylic Reflector (AE, AV)

Acrylic Refractor
(A5G, A5N, A2G, A2N)

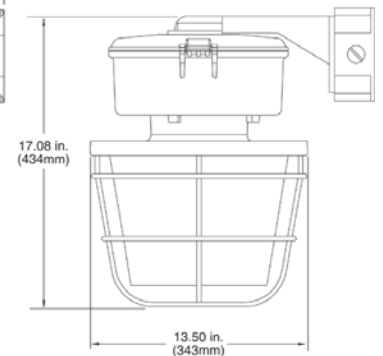
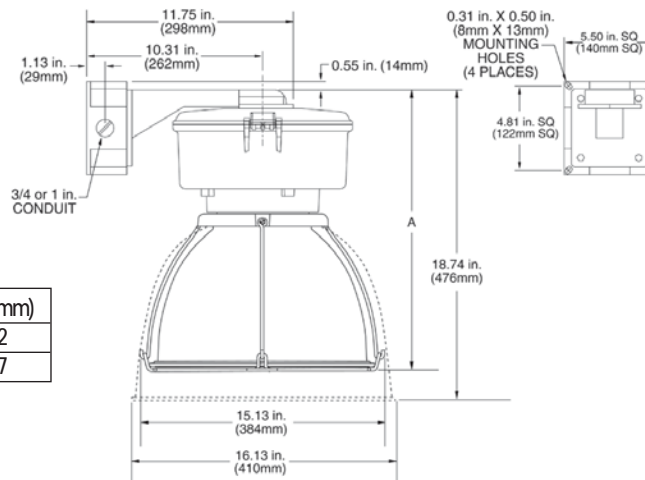


Acrylic Refractor
(A5G, A5N, A2G, A2N)

Glass Reflector (GE, GV)
Dotted Line (---) = Acrylic Reflector (AE, AV)

CEILING MOUNT

Reflector:	A(inches)	A(mm)
Open Glass(GV)	17.55	446
Closed Glass(GE)	18.17	462



Glass Reflector (GE, GV)
Dotted Line (---) = Acrylic Reflector (AE, AV)

Acrylic Refractor
(A5G, A5N, A2G, A2N)

WALL MOUNT

Reflector:	A(inches)	A(mm)
Open Glass(GV)	17.00	432
Closed Glass(GE)	17.61	447

GE Lighting Systems, Inc.
www.gelighting.com



VERSAGLOW® 150 and 250 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Low mounting height 8-20 ft. (2-6 meter) applications where upright component is desired, classrooms, offices, cafeterias and storage rooms

SPECIFICATION FEATURES

- 1598 Listed
- **Suitable For Damp Locations**
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- CUL Listed to Canadian Standards & Codes
- UV stabilized injection molded prismatic refractor for low brightness
- Die-cast aluminum ballast housing with electrocoat gray paint finish
- Primary quick disconnect for easy mounting
- Uses energy-conserving high intensity discharge lamps
- Mogul base socket -E39 standard
- Safety chain provisions for ballast housing
- Standard ambient is 40°C
- Shipped as components: Ballast, Optical, Mounting, Receptacle
- Magnapack available for ballast.
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

V2G	17	M	0	A	4	EA	2	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL	MOUNTING RECEPTICAL	OPTIONS
XXX	XX	X	X	X	X	XX	X	X
V1G = Versaglow 150 Luminaire	05 = 50 07 = 70 10 = 100 15 = 150 (55V)	S = HPS M = MH K = Ceramic MH P = Pulse Start MH	60Hz 0 = 120/208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 Y = 240 G = 380	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg	4 = 40	EA = Enclosed Acrylic for V2G ES = Enclosed Advanced "ST" HID Acrylic for V2G TA = Acrylic Refractor for V1G TS = Advanced "ST" HID Acrylic for V1G	1 = Ceiling (MPM-C) 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* 5 = 3/4-in. Pendant, Flexible (MPM-3PF) 6 = Outlet Box Cover (MPM-OBC)	B = Time Delay Automatically Switched Quartz F = Fusing Q = Non-Time Delay Automatically Switched Quartz Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.
V2G = Versaglow 250 Luminaire	17 = 175 25 = 250	Note: Lamp is vertical base up. Lamp not included.					*NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted or fixture will not hang straight.	

VERSAGLOW INDOOR LIGHTING

PHOTOMETRIC SELECTION TABLE

Versaglow 150			
Wattage	Light Source	Spacing Criteria	Photometric Curve
70*	MH	1.7	452589
70*	Ceramic MH	1.7	452588
100*	MH	1.8	452590
100*	Ceramic MH	1.8	452587
150*	MH	1.7	452591
50, 70, 100, 150	HPS	1.5	175764
Versaglow 250			
70*	MH	1.8	452597
70*	Ceramic MH	1.7	452599
100*	MH	1.8	452596
100*	Ceramic MH	1.8	452598
150*	MH	1.8	452595
175(COATED)	MH, P (MH)	1.6	175751
250(COATED)	MH, P (MH)	1.6	175921
70, 100, 150	HPS	1.0	175715
250	HPS	1.6	175752

*Medium base socket. (Lamp not included)

Note: See page T-34 for Alternative lens material explanation

VERSAGLOW® 150 and 250 LUMINAIRE

Low Bay, Enclosed

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight Ballast and Optical	lbs 22-36	kgs 10-16
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BALLAST SELECTION TABLE

V1G VERSAGLOW 150

Wattage	Light Source	Ballast Type / Voltage								
		60HZ					50HZ			
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
50	HPS	H,K	H,K	H,K	H,K	N/A	N/A	N/A	N/A	N/A
70	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	N/A	M	N/A	N/A
100	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	H,M	H,M	H	N/A
150(55V)	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	A	H	H	H	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A

BALLAST SELECTION TABLE

V2G VERSAGLOW 250

Wattage	Light Source	Ballast Type / Voltage								
		60HZ					50HZ			
		Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
50	HPS	H,K	H,K	H,K	H,K	N/A	N/A	N/A	N/A	N/A
70	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	N/A	M	N/A	N/A
100	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	H,M	H,M	H	N/A
150(55V)	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	A	H	H	H	N/A
250	HPS	A	A	A	A	N/A	H	HA	HA	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	N/A	N/A	N/A	N/A

PULSE START METAL HALIDE LIGHT SOURCE

BALLAST SELECTION TABLE

150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

* Medium base socket (Lamp not included)

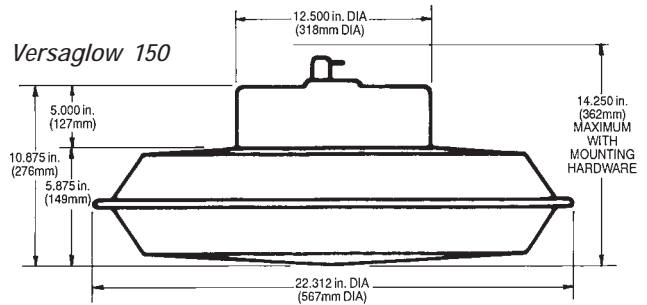
** 480 Volt not available

NOTE: 208, 240 and 480 volts with "G" ballast not available with switched quartz.

CANADIAN NOTES:

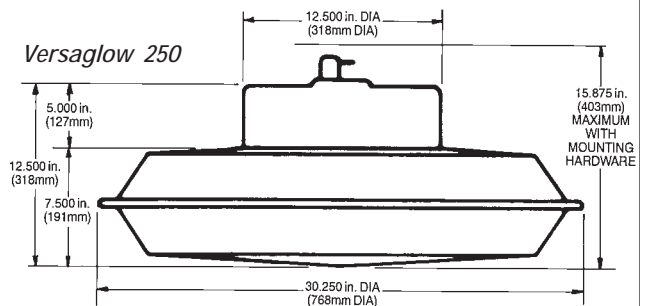
- "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CVI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.

FIXTURE DIMENSIONS



NOTE:

Flexible pendant mounting receptacle must be used if unit is not rigidly mounted.





GARAGE-GARD® LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Parking garages, warehouses, entranceways, assembly lines, stairways, service stations and work areas/task lighting

SPECIFICATION FEATURES

- **UL 1598 Listed Suitable for Damp or Wet Locations** depending on mounting receptacle used
- Enclosed units **UL 1598 Listed** for metal halide lamps in polymer lamp containment barriers
- CUL Listed to Canadian Standards & Codes
- Wide light distribution with upright component
- Enclosed and gasketed
- UV stabilized injection molded acrylic refractor for low brightness
- Heavy-duty die-cast aluminum ballast housing with electrocoat gray paint finish
- Vandal-resistant external hardware (TORX T-20) standard
- Variety of mounting receptacles available
- Standard ambient is 40°C
- Medium base socket -E26 standard
- Safety chain provisions
- Shipped as complete luminaire with lamp in socket and mounting receptacle in carton
- *Pulse start system for metal halide available. See Page I-155*

ORDERING NUMBER LOGIC

GGDC	15	S	0	H	4	E5A	1	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL REFRACTOR	MOUNTING RECEPTACLE	OPTIONS
XXXX = Garage-Gard Luminaire with outlet box mounting plate	XX = 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	X = S = HPS M = MH or Merc K = Ceramic MH P = Pulse Start MH Medium base lamp installed in socket.	X = 60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 Y = 240	X = See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg	X = 4 = 40	XXX = See Photometric Selection Table E2A = Enclosed Asymmetric Acrylic E5A = Enclosed Type 5 Acrylic	X = 1 = Standard GGDC: Outlet Box Mounting Plate DAMP LOCATION ONLY GGDD included with fixture when choosing 2-9 below 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* DAMP LOCATION 3 = 3/4-in. Pendant, Rigid (MPM-3PRW)* WET LOCATION 4 = 3/4-in. Pendant, Rigid, with Thru Feed, (MPM-3PRTFW)* WET LOCATION 5 = 3/4-in. Pendant, Flexible (MPM-3PF) DAMP LOCATION 6 = Outlet Box Cover (MPM-OBC) DAMP LOCATION 7 = Angled Stanchion Mount (MPM-5ASW) WET LOCATION 8 = Wall Bracket with Thru Feed, (MPM-W3TFW) WET LOCATION 9 = Wall Bracket (MPM-WW) WET LOCATION	X = B = Time Delay Automatically Switched Quartz with quartz lamp installed F = Fusing Q = Non-Time Delay Automatically Switched Quartz (with lamp installed) Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.
GGDD = Garage-Gard Luminaire with sliding electrical disconnect								

PHOTOMETRIC SELECTION TABLE

Garage-Gard				
Wattage	Light Source	Spacing Criteria or IES Distribution Type	Optical Refractor	Photometric Curve
70,100	MH	SN2, ASYM	E2A	178461
70,100	MH	2.2, SYM	E5A	177861
175	MH	ASYM	E2A	179900
175	MH	2.2, SYM	E5A	177861
70,100	Cer.MH	SN2, ASYM	E2A	178461
70,100	Cer.MH	2.2, SYM	E5A	177861
150	P(MH)	SN2, ASYM	E2A	178461
150	P(MH)	2.2, SYM	E5A	177861
50	HPS	ASYM	E2A	179899
50	HPS	2.4, SYM	E5A	177857
70,100.150(55V)	HPS	ASYM	E2A	179899
70,100.150(55V)	HPS	2.4, SYM	E5A	177857

NOTE: ASYM = Asymmetrical; SYM = Symmetrical.
Note: See page T-34 for Alternative lens material explanation

NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted or fixture will not hang straight.

GARAGE-GARD INDOOR LIGHTING

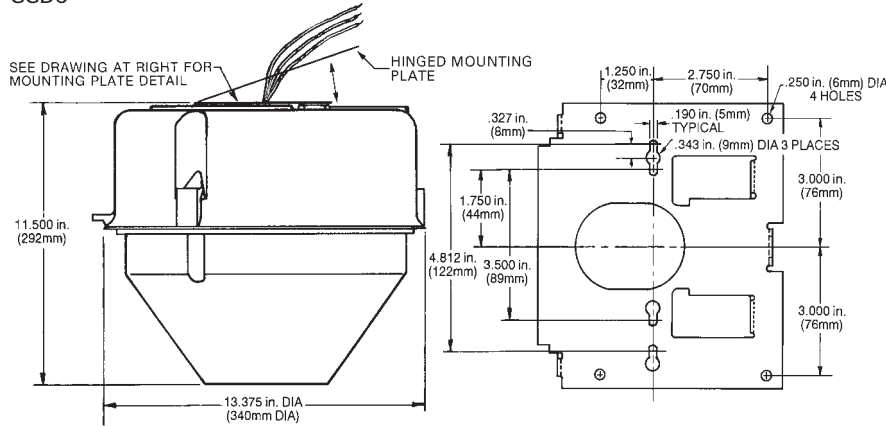


GARAGE-GARD® LUMINAIRE

Low Bay, Enclosed

FIXTURE DIMENSIONS

GGDC



DATA

Approximate Net Weight	lbs	kgs
Ballast and Optical	10-17	5-8

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage										
		Multivolt	60HZ					50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380		
50	HPS	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A		
70	HPS	A,H,K	G,H**,K,M	G,H	G,H	A	N/A	M	N/A	N/A		
100	HPS	A,H,K	G,H**,K,M	G,H	G,H	N/A	H,M	H,M	N/A	N/A		
150(55V)	HPS	A,H	G,H**,M	G,H	G,H	A,M	H	H	H	N/A		
70	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A		
100	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A		
70	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A		
100	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A		
175	MH	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
PULSE START METAL HALIDE LIGHT SOURCE												
BALLAST SELECTION TABLE												
150*	P(MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A		

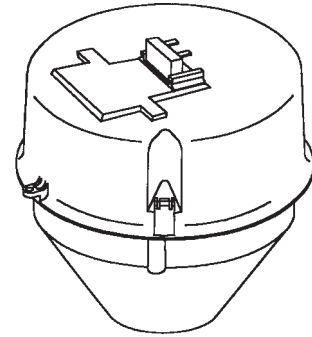
NOTE: N/A = Not Available
** 480 Volt not available

CANADIAN NOTES:

1. "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. "K" Hot Restart not available.
5. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

REFERENCES

See Page I-128 for start of Accessories.
See Pages I-153 for Explanation of Options and Other Terms Used.



GGDD

NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted



MMI



MML

MINIMITE® LUMINAIRE

Low Bay, Enclosed or Open

APPLICATIONS

- Low mounting height 8-20 ft (2-6 meter) applications, parking garages, aisles, entranceways, catwalks, warehouses (low ceilings) and other areas with existing incandescent circuits.

SPECIFICATION FEATURES

- UL 1598 Listed *Suitable for Damp or Wet Locations* depending on mounting receptacle used
- Enclosed units UL 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- CUL Listed to Canadian Standards & Codes
- Precision-designed refractor for low brightness
- Heavy-duty die-cast aluminum ballast housing with electrocoat gray paint finish
- Primary quick disconnect for easy mounting
- Mogul base socket -E39 standard
- Safety chain provisions
- Shipped as components: Ballast, Optical, Mounting, Receptacle
- Magnapack available for ballast
- *Pulse start system for metal halide available. See Page I-155*

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option)
Customer should consult or review local electrical codes for compliance.

ORDERING NUMBER LOGIC

MMI	07	S	0	H	X	E5A	2	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL REFRACTOR	MOUNTING RECEPTACLE	OPTIONS
XXXX	XX	X	X	X	X	XXX	X	X
MMI = Minimite Luminaire	07 = 70 10 = 100 15 = 150 (55V)	S = HPS M = MH or Merc	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 Y = 240	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg	See Photometric Selection Table X = Ambient determined by Optical	See Photometric Selection Table E2A = Enclosed Type 2 Acrylic E5A = Enclosed Type 5 Acrylic E2S = Enclosed Type 2 Advanced "ST" HID Acrylic E5S = Enclosed Type 5 Advanced "ST" HID Acrylic E5G = Enclosed Type 5 Glass (Cannot be used with MML) V2A = Open Type 2 Acrylic V5A = Open type 5 Acrylic	1 = Ceiling (MPM-C) DAMP LOCATION 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* DAMP LOCATION 3 = 3/4-in. Pendant, Rigid (MPM-3PRW)* WET LOCATION 4 = 3/4-in. Pendant, Rigid, with Thru Feed, (MPM-3PRTFW)* WET LOCATION 5 = 3/4-in. Pendant, Flexible (MPM-3PF) DAMP LOCATION 6 = Outlet Box Cover (MPM-OB) DAMP LOCATION 7 = Angled Stanchion Mount (MPM-5ASW) WET LOCATION 8 = Wall Bracket with Thru Feed, (MPM-W3TFW) WET LOCATION 9 = Wall Bracket (MPM-WW) WET LOCATION	B = Time Delay Automatically Switched Quartz F = Fusing Q = Non-Time Delay Automatically Switched Quartz Y = Solo Bilevel Port (See page I-126)

PHOTOMETRIC SELECTION TABLE

MINIMITE-MMI					
Wattage	Light Source	Optical Refractor	Maximum Ambient	Spacing Criteria or IES Distribution Type	Photometric Curve
70,100*	MH	E2A,S	40C	SN2, ASYM	179124
70,100*	MH	E5A,S	40C	1.3, SYM	179123
70,100*	MH	E5G	55C	1.2, SYM	176686
175, 250	MH	E5G	40C	1.2, SYM	176686
175,250(Coated)	MH	E5G	40C	1.3, SYM	176683
70,100*	Cer.MH	E2A,S	40C	SN2, ASYM	179124
70,100*	Cer.MH	E5A,S	40C	1.3, SYM	179123
70,100*	Cer.MH	E5G,S	55C	1.2, SYM	176686
150*	P(MH)	E2A,S	40C	SN2, ASYM	179124
150*	P(MH)	E5A,S	40C	1.3, SYM	179123
150*	P(MH)	E5G	40C	1.2, SYM	176686
175, 250	P(MH)	E5G	40C	1.2, SYM	176686
70,100.150(55V)	HPS	E2A,S	40C	MN2, ASYM	177158
70,100.150(55V)	HPS	E5A,S	40C	1.9, SYM	176025
70,100.150(55V)	HPS	E5G	55C	1.1, SYM	176684
70,100.150(55V)	HPS	V5A	55C	2.0, SYM	175620

* Medium base socket (lamp not included)
Note: ASYM = Asymmetrical; SYM = Symmetrical
Note: C/F = Call Factory
Note: See page T-34 for Alternative lens material explanation

Note: Do not use open opticals with lamps specified for use in enclosed fixtures.

PHOTOMETRIC SELECTION TABLE

MINIMITE-MML					
Wattage	Light Source	Optical Refractor	Spacing Criteria or IES Distribution Type	Maximum Ambient	Photometric
175,250	MH	E5A,S	1.3, SYM	40C	178247
175,250(COATED)	MH	E5A,S	1.5, SYM	40C	178251
175,250	MH	E2A,S	MN2, ASYM	40C	178274
175,250	P(MH)	E5A,S	1.3, SYM	40C	178247
175,250(COATED)	P(MH)	E5A,S	1.5, SYM	40C	178251
175,250	P(MH)	E2A,S	MN2, ASYM	40C	178274
70,100.150(55V)	HPS	E5A,S	1.4, SYM	40C	178243
250	HPS	E5A,S	1.4, SYM	40C	178255
250	HPS	E2A,S	LN2, ASYM	40C	178276

Note: ASYM = Asymmetrical; SYM = Symmetrical
Note: C/F = Call Factory

MINIMITE® LUMINAIRE

Low Bay, Enclosed or Open

REFERENCES

See Page I-128 for start of Accessories.

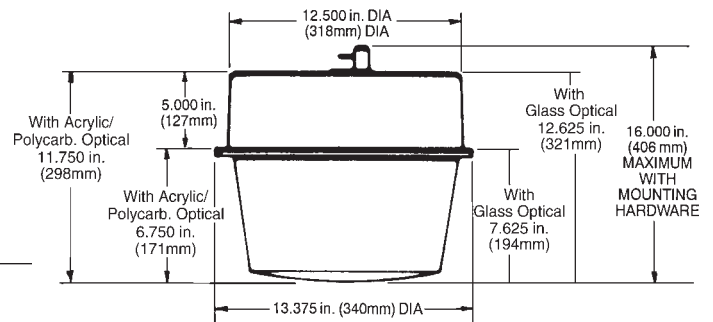
See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

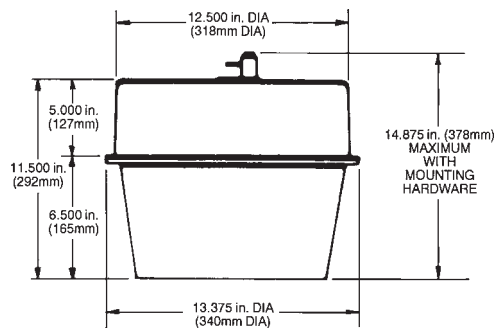
FIXTURE DIMENSIONS

NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted.

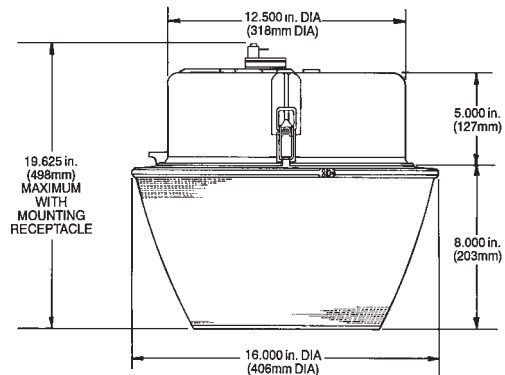
MMI Enclosed



MMI Open



MML



DATA

Approximate Net Weight Ballast and Optical	lbs 20-32	kgs 9-15
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BALLAST SELECTION TABLE

MMI MINIMITE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ				50HZ				
	Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
70	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	N/A	M	N/A	N/A
100	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	H,M	H,M	H	N/A
150(55V)	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	A	H	H	H	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A

PULSE START METAL HALIDE LIGHT SOURCE

BALLAST SELECTION TABLE

150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A

MML MINIMITE

Wattage	Light Source	Ballast Type / Voltage								
		60HZ				50HZ				
	Multivolt	120, 208 240, 277 480	347	120 x 347	220	220	230	240	380	
70	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	N/A	M	N/A	N/A
100	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	N/A	H,M	H,M	H	N/A
150(55V)	HPS	H,K	G,H**,K,M	G,H,K	G,H,K	A	H	H	H	N/A
250	HPS	A	A	A	A	N/A	H	HA	HA	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	N/A	N/A	N/A	N/A	N/A

PULSE START METAL HALIDE LIGHT SOURCE

BALLAST SELECTION TABLE

150*	P (MH)	N/A	H**	H	N/A	N/A	N/A	N/A	N/A	N/A
175	P (MH)	N/A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	P (MH)	A	A	A	A	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available

* Medium base socket (Lamp not included)

** 480 Volt not available

CANADIAN NOTES:

1. "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. "K" Hot Restart not available.
5. 208, 240 and 480 volts with "G" ballast not available with switched quartz.

GE Lighting Systems, Inc.

www.gelighting.com

MINIMITE INDOOR LIGHTING





MINIMOUNT® LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Low mounting height 8-20 ft. (2-6 meter) applications, parking garages, working areas, service stations, walkways, entrances, stairways, lobbies and storerooms

SPECIFICATION FEATURES

- 1598 Listed *Suitable for Damp or Wet Locations* depending on mounting receptacle used
- Aluminum housing
- Alzak¹ finish on high-efficiency reflector
- Heat, shock-resistant, stippled glass hinged lens
- Primary quick disconnect
- Mogul base socket -E39 standard
- Shipped as components: Luminaire and Mounting Receptacle

ORDERING NUMBER LOGIC

MMN	15	S	0	H	5	20	DB	2	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	SPACING CRITERIA	COLOR	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	XX	X	X
MMN = Minimount Luminaire	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 25 = 250	S = HPS M = MH or Merc K = Ceramic MH NOTE: Lamp is vertical base up. Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240	See Ballast Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot start M = Mag-Reg	4 = 40 5 = 55 (Standard) NOTE: Limit 40°C for 250 watt	See Ballast and Photometric Selection Tables 19 = 1.9 20 = 2.0	BL = Black DB = Dark Bronze (Standard) GR = Gray	1 = Ceiling (MPM-C) DAMP LOCATION 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* DAMP LOCATION 3 = 3/4-in. Pendant, Rigid (MPM-3PRW)* WET LOCATION 4 = 3/4-in. Pendant, Rigid, with Thru Feed, (MPM-3PRTFW)* WET LOCATION 5 = 3/4-in. Pendant, Flexible (MPM-3PF) DAMP LOCATION 6 = Outlet Box Cover (MPM-OBC) DAMP LOCATION 0 = Wall Bracket (MPM-WW01) WET LOCATION *NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted or fixture will not hang straight.	B = Time Delay Automatically Switched Quartz with quartz lamp installed F = Fusing Q = Non-Time Delay Automatically Switched Quartz Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.

PHOTOMETRIC SELECTION TABLE

MMN Minimount				
Wattage	Light Source	Spacing Criteria or IES Distribution Type	Maximum Ambient	Photometric Curve
70	HPS	2.0	55C	175618
100	HPS	2.0	55C	175618
150 (55)	HPS	2.0	55C	175618
250	HPS	2.0	40C	175241
70, 100*	MH, K	1.9	55C	178863
175	MH	2.0	55C	175243
250	MH	2.0	40C	175243

* Medium base socket(lamp not included)

MINIMOUNT INDOOR LIGHTING

I

MINIMOUNT® LUMINAIRE

Low Bay, Enclosed

REFERENCES

See Page I-128 for start of Accessories.

See Pages I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight 22-36 lbs 10-16 kgs

BALLAST SELECTION TABLE

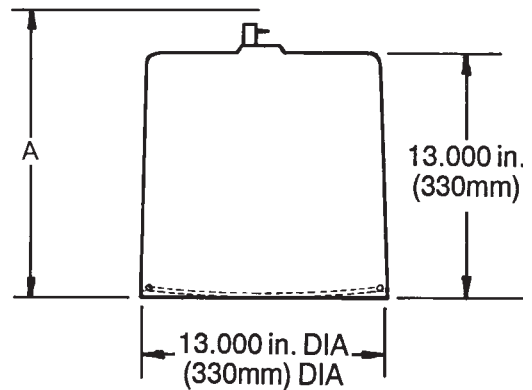
Wattage	Light Source	Ballast Type / Voltage								
		Multivolt	60HZ			50HZ				
			120, 208 240, 277 480	347	120 x 347	220	220	230	240	380
70	HPS	A,H,K	G,K,M	G,H	G,H	N/A	N/A	M	N/A	N/A
100	HPS	A,H,K	G,K,M	G,H	G,H	N/A	H,M	H,M	H	N/A
150(55V)	HPS	A,H,K	G,K,M	G,H	G,H	N/A	H	H	H	N/A
250	HPS	A	A	A	A	N/A	H	HA	HA	N/A
70*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	Cer, MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
70*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
100*	MH	H	H	H	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available
* Medium base socket (Lamp not included)

CANADIAN NOTES:

- "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.
- "K" Hot Restart not available.
- 208, 240 and 480 volts with "G" ballast not available with switched quartz.

FIXTURE DIMENSIONS



with specified hanging hardware	dimension A (Inches)	dimension A (Millimeters)
MPM-3PR and MPM-3PRW	16.500	419
MPM-3PF	16.625	422
MPM-OCB	14.750	375
MPM-WW	15.750	400

NOTE: Flexible pendant mounting receptacle must be used if unit is not rigidly mounted.

MINIMOUNT INDOOR LIGHTING





SCM-175 LUMINAIRE

Low Bay, Enclosed

APPLICATIONS

- Entranceways, under mezzanines, stairways, parking garages, service stations, warehouses, assembly lines and working areas/task lighting

SPECIFICATION FEATURES

- **UL** 1598 Listed Suitable for **Damp or Wet locations** depending on mounting receptacle used
- **UL** Listed to Canadian standards and codes
- Cutoff optics
- Enclosed and gasketed
- Heat and impact resistant tempered flat glass lens (standard)
- Heavy-duty die-cast aluminum housing and door frame
- Tamper-resistant hardware standard (**TORX** T-20 standard)
- Shipped assembled with medium base lamp installed in socket -E26 standard.
- Optional mogul base socket - E39 (no lamp included) MC3 only
- Mounting/mounting receptacle in carton with luminaire. Primary Electrical Disconnect included with **SDMM** only.

SCM INDOOR LIGHTING

I

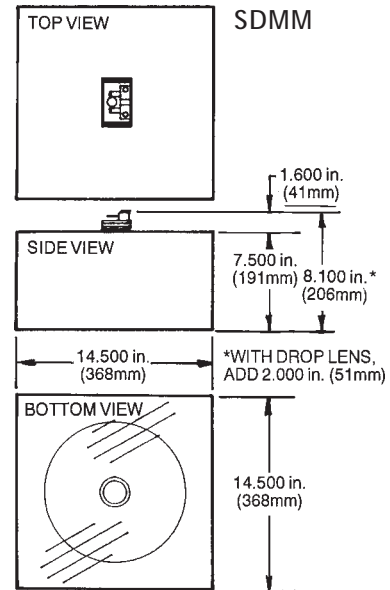
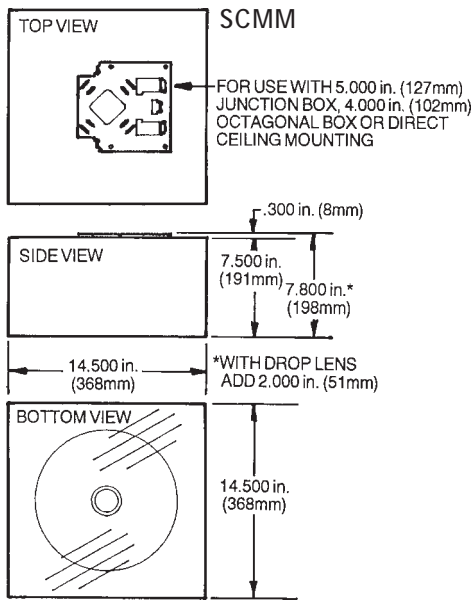
ORDERING NUMBER LOGIC

SCMM	15	S	0	H	1	G	SC5	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	MOUNTING	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	X
SCMM = Square Ceiling Mount	05 = 50 07 = 70 10 = 100 15 = 150 (55V)	S = HPS M = MH or Merc	60Hz 0 = 120/208/240/277 MULTIVOLT	See Ballast Selection Table A = Autoreg	1 = Standard SCMM: Outlet Box Mounting Plate DAMP LOCATION 1 = Standard STMM: 8-in. to 14-in. Adjustable Trunnion Height DAMP LOCATION	A = Acrylic 2-in. Drop Lens G = Flat Tempered Glass	See Ballast and Photometric Selection Table MC3 = Medium Cutoff Type III	BL = Black DB = Dark Bronze GR = Gray WH = White	F = Fusing
SDMM = Square Ceiling with Sliding Electrical Disconnect	17 = 175	Standard: Medium base lamp installed in socket	1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg	SDMM Only: 2 = 3/4-in. Pendant, Rigid (MPM-3PR)* DAMP LOCATION 3 = 3/4-in. Pendant, Rigid (MPM-3PRW)* WET LOCATION 4 = 3/4-in. Pendant, Rigid, with Thru Feed, (MPM-3PRTFW)* WET LOCATION 6 = Outlet Box Cover (MPM-OBC) DAMP LOCATION *NOTE: Flexible pendant mounting receptacle (Not available with this product) NOTE: Fixture must be mounted rigidly NOTE: Choices 2,3,4 and 6 include Primary Electrical Disconnect packed with luminaire (SDMM only) NOTE: For Wet Locations select mounting receptacle for Wet Locations	Polycarbonate Lens available-contact factory.	SC5 = Short Cutoff Type V See opposing page.		Note: See page I-128 for Accessory Index and Descriptions. Note: See page I-153 for explanation of Options.
STMM = Square Ceiling with Trunnion Mount									

SCM-175 LUMINAIRE

Low Bay, Enclosed

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kgs
SCMM	20	9
SDMM	20	9
STMM	25	11

BALLAST AND PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage				Amb. °C	Photometric Curve		
		Multivolt	120, 208 240, 277 480	347 120x347	60HZ		Number 35-17 - - -		
						Flat Glass	2-in. Drop Acrylic		
						MC3	SC5	SC5	
50	HPS	H	H*	H	40	8265	8302	8304	
70, 100, 150 (55V)	HPS	A, H	A, H**, G, M	A, H, G***	40	8265	8302	8304	
70, 100	MH	H	H	N/A	40	8271	8308	8310	
175	MH	A	A	A	40	8271	8308	N/A	

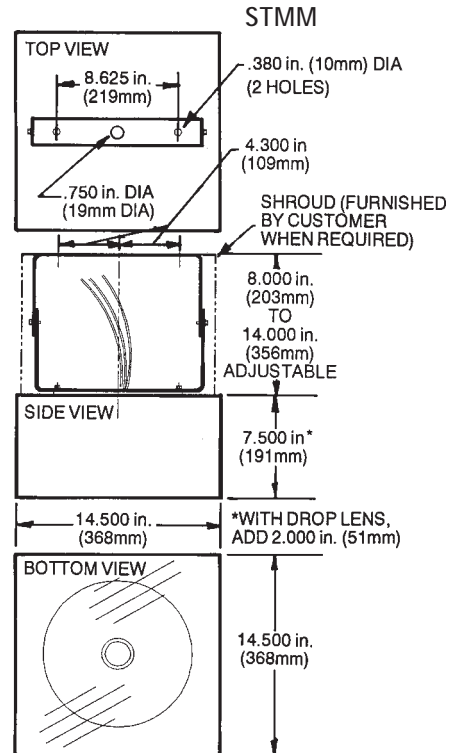
NOTE: N/A = Not Available
 * 120 volt only
 ** 480 volt must be "A" or "M"
 *** 347 volt

CANADIAN NOTES:

- "A", Autoreg, and "H", HPF available 120, 277 or 347 volts only
- 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
- Multivolt not available.

REFERENCES

See Page I-128 for start of Accessories.
 See Pages I-153 for Explanation of Options and Other Terms Used.



SBI® INDUSTRIAL LUMINAIRE

Low Bay, Enclosed or Open



Vented Industrial
Acrylic Reflector
VIA



Low Bay Refractor
LBR



Vented
Industrial Reflector
VIR

APPLICATIONS

- For under 20 ft. (6 meter) applications in industrial plants, garages, gymnasiums, docks, warehouses and incandescent or fluorescent replacements

SPECIFICATION FEATURES

- 1598 Listed
Suitable for Damp Locations
- 1598 Listed for metal halide lamps in polymeric lamp containment barriers
- Listed to Canadian Standard & Codes
- Die-cast aluminum ballast housing with electrocoat dark bronze paint finish
- Versatile junction box mounting (octagonal, square, rectangular)
- Pendant and flexible mounting available as an option
- Multiple optical choices
- Medium base high pressure sodium (HPS) or metal halide lamp included
- Shipped as components: Ballast and Lamp, Optical

SBI INDOOR LIGHTING

I

ORDERING NUMBER LOGIC

SBI	15	S	0	N	LBR	DB	N
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	COLOR	OPTION
XXXX	XX	X	X	X	XXX	XX	X
SBI = SBI Luminaire	05 = 50 07 = 70 10 = 100 15 = 150 (55V) NOTE: Ambient for 150W, 40°C; 100W MH, 40°C; all others, 55°C.	S = HPS M = MH Note: Lamp is vertical base up. Lamp included.	60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 D = 347 F = 120X347 NOTE: Metal halide is available in multivolt only.	See Ballast, Optical and Photometric Selection Table H = HPF Reactor or Lag N = NPF Reactor	See Ballast, Optical and Photometric Selection Table LBR = Low Bay Refractor (Enclosed, Acrylic) VIA = Vented Industrial Acrylic Reflector VIR = Vented Industrial Reflector (Metallic) NOTE: Do not use open opticals with lamps specified "For use in enclosed fixtures only".	DB = Dark Bronze WH = White	N = Provision for slide-on primary electrical disconnect. (no CSA available) Order MPM-3PF Flexible Pendant Mounting Capability Separately.

BALLAST, OPTICAL AND PHOTOMETRIC SELECTION TABLE

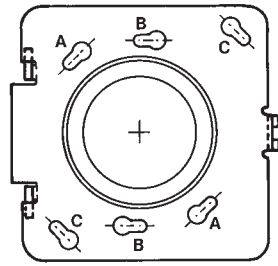
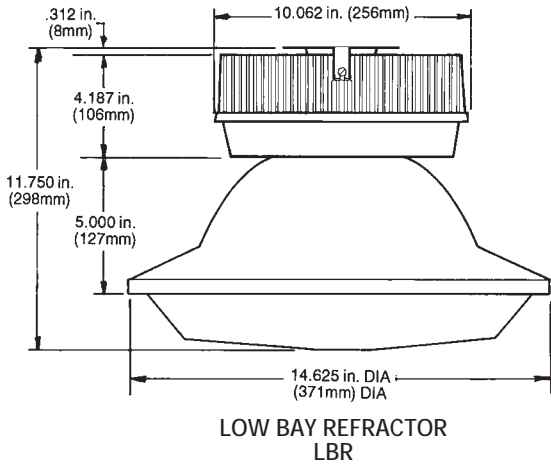
Wattage	Light Source	Ballast Type All Voltages — 60Hz	Optical	Photometric Curve Number 35-17----
50*, 70, 100, 150 (55V)	HPS	H, N "Coated"	LBR	7145
50*, 70, 100, 150 (55V)	HPS	H, N "Coated"	VIA	8417
50*, 70, 100, 150 (55V)	HPS	H, N "Coated"	VIR	7146
70, 100	MH	H** "Clear"	LBR	7843

NOTE: *50W HPS available multivolt and 120V only
**Not available in 347 volt or 120X347 volts

SBI® INDUSTRIAL LUMINAIRE

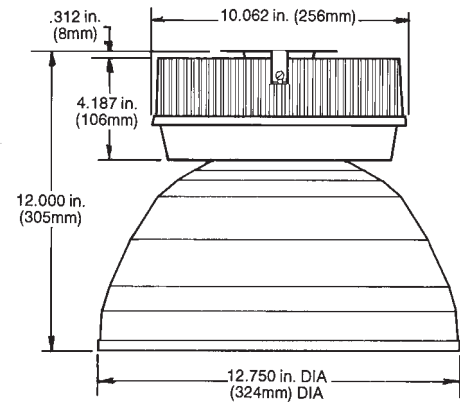
Low Bay, Enclosed or Open

FIXTURE DIMENSIONS



MOUNTING PLATE
(Enlarged to show detail)

holes	Dimension between holes	fits the following box
A, A	3.500 in. (89mm)	4 in. (102mm) OCTAGONAL
B, B	3.300 in. (84mm)	2x4 in. (51x102mm) UTILITY
C, C	4.750 in. (121mm)	4 in. (102mm) JUNCTION



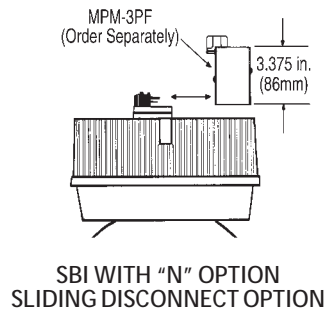
INDUSTRIAL REFLECTOR
VIR

REFERENCES

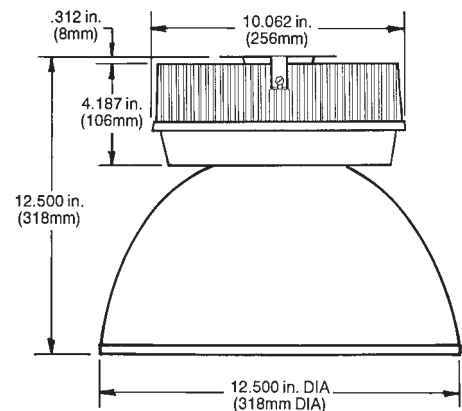
See Page I-142 for Component Ordering Logic.
See Pages I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight 12 lbs 5 kgs



SBI WITH "N" OPTION
SLIDING DISCONNECT OPTION



VENTILATED INDUSTRIAL
ACRYLIC REFLECTOR
VIA

SBI INDOOR LIGHTING





VERSAFLOOD® II INDUSTRIAL WALLLIGHTER

Enclosed

APPLICATIONS

- For use from 0-20 ft. (0-6 meters).
- Wall mounted industrial luminaire for use in paper mills, power plants, wastewater treatment and other applications requiring lighting from the side

SPECIFICATION FEATURES

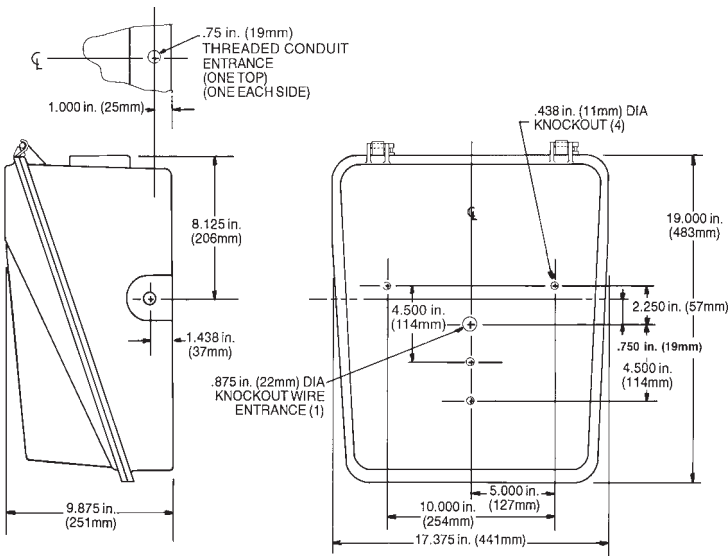
- 1598 Listed
- Suitable For Wet Locations
- Listed to Canadian Standard & Codes
- Heavy-duty die-cast aluminum housing
- Protected inside and out with an electrocoat paint finish
- Formed reflector with ALGLAS® finish
- Sealed and activated-charcoal filtered optical assembly
- Corrosion resistant hardware
- Mogul base socket - E39 standard
- 3/4-inch threaded conduit openings—top and sides for through wiring

ORDERING NUMBER LOGIC

V2IW	40	S	1	L	4	PWA	GR	B
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT DEG. C	OPTICAL CONFIGURATION	COLOR	OPTIONS
XXXX = Versaflood II Industrial Walllighter	XX = 25 = 250 40 = 400	X = HPS M = MH or Merc Standard: Lamp not included.	X = 60Hz 0 = 120/208/240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480	X = See Ballast and Photometric Selection Table A = Autoreg L = Super Low Loss Autoreg	X = 4 = 40 5 = 55 NOTE: Limit 40°C for 400 watt	XXX = PWA = Square Refractor, Wide Optics, Socket Position (Factory Selected Optimum)	XX = GR = Gray DG = Dark Gray for Severe Duty Locations	X = B = Time Delay Automatically Switched Quartz F = Fusing (See page 153 for limitations) L = Latch on door Q = Non-Time Delay Automatically Switched Quartz

VERSAFLOOD INDOOR LIGHTING

FIXTURE DIMENSIONS



DATA

Approximate Net Weight 27-45 lbs 12-20 kgs

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage		Ambient °C	Optical Configuration	IES Distribution Type	Photometric Curve Number
		60HZ	120-480				
250	MH	A	A	55	PWA	SN2	8579
400	MH	N/A	L	40	PWA	SN2	8580
250	HPS	A	A	55	PWA	SN2	8577
400	HPS	N/A	L	40	PWA	SN2	8577

NOTE: N/A = Not Available

REFERENCES

See Page I-128 for start of Accessories.
See Pages I-153 for Explanation of Options and Other Terms Used.

SCMA-50 LUMINAIRE

Low Bay, Enclosed



APPLICATIONS

- For 8-15 ft. (2-5 meter) new and retrofit installations in apartment/office complexes, schools, malls, parking garages and motel/hotels

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Damp Locations
- Listed to Canadian Standard & Codes
- Dark bronze molded polycarbonate housing
- Vandal-resistant prismatic polycarbonate refractor
- Medium base 35- or 50-watt high pressure sodium (HPS) clear lamp included.
- Shipped as complete luminaire with lamp

ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	LENS TYPE	LENS TYPE
SCMA03S	35	HPS	120	NPF Reactor	Polycarbonate	25
SCMA05S	50	HPS	120	NPF Reactor	Polycarbonate	25

PHOTOMETRIC SELECTION TABLE

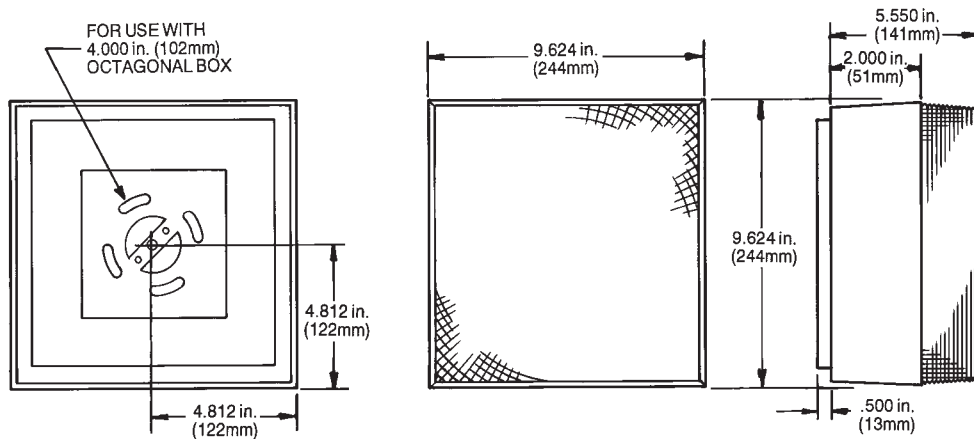
Wattage	Light Source	Ballast Type All Voltages	Photometric Curve # 35-17----
35, 50	HPS	NPF Reactor	7869

All light sources are clear unless otherwise indicated.

DATA

Approximate Net Weight 5 lbs 2 kgs

FIXTURE DIMENSIONS



GE Lighting Systems, Inc.
www.gelightingsystems.com


SCMA-50 INDOOR LIGHTING

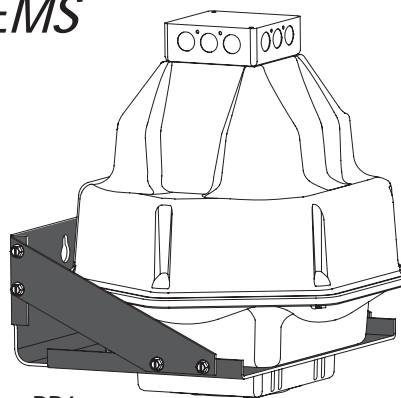
GE LIGHTING SYSTEMS REMOTE BALLAST

APPLICATIONS

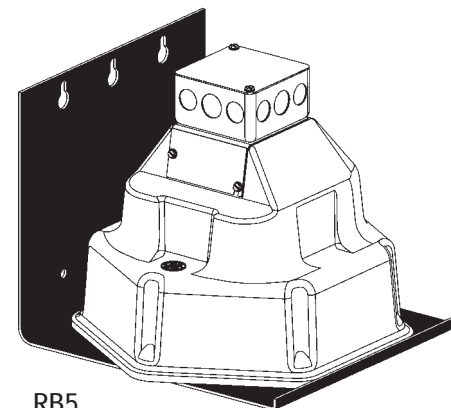
- Remote ballasting

SPECIFICATION FEATURES

-  1598 Listed
Suitable For Damp Locations
- Autoreg(CWA) 60Hz HPS or metal halide or 50Hz metal halide Ballast 55°C Ambient operation (65°C available - Contact Factory)
- Die-cast aluminum ballast housing with electrocoat gray paint finish
- Corrosion-resistant wall mounting bracket
- Thru-feed wiring compartment
- High pressure sodium assemblies operate lamps up to fifty feet from the ballast (60Hz only)



RB6
Large Housing



RB5
Generation 5
Housing

ORDERING NUMBERS

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE	HERTZ	BALLAST TYPE	AMBIENT °C	HOUSING SIZE
RB5G25S0A	250	HPS	120X208X240X277	60	Autoreg (CWA)	55*	RB5
RB5G25S5A	250	HPS	480	60	Autoreg (CWA)	55*	RB5
RB5G40S0A	400	HPS	120X208X240X277	60	Autoreg (CWA)	55*	RB5
RB5G40S5A	400	HPS	480	60	Autoreg (CWA)	55*	RB5
RB6G01S0A	1000	HPS	120X208X240X277	60	Autoreg (CWA)	55	RB6
RB6G01S5A	1000	HPS	480	60	Autoreg (CWA)	55	RB6
RB5G25M0A	250	MH	120X208X240X277	60	Autoreg (CWA)	55*	RB5
RB5G25M5A	250	MH	480	60	Autoreg (CWA)	55*	RB5
RB5G25MTA	250	MH	220	60	Autoreg (CWA)	55	RB5
RB5G40M0A	400	MH	120X208X240X277	60	Autoreg (CWA)	55*	RB5
RB5G40M5A	400	MH	480	60	Autoreg (CWA)	55*	RB5
RB5G40MTA	400	MH	220	60	Autoreg (CWA)	55	RB5
RB6G01M0A	1000	MH	120X208X240X277	60	Autoreg (CWA)	55	RB6
RB6G01M5A	1000	MH	480	60	Autoreg (CWA)	55	RB6
RB6G01MTA	1000	MH	220	60	Autoreg (CWA)	55	RB6
RB5G25M6A	250	MH	220	50	Autoreg (CWA)	55	RB5
RB5G25MRA	250	MH	230	50	Autoreg (CWA)	55	RB5
RB5G25MYA	250	MH	240	50	Autoreg (CWA)	55	RB5
RB5G25MGA	250	MH	380	50	Autoreg (CWA)	55	RB5
RB5G40M6A	400	MH	220	50	Autoreg (CWA)	55	RB5
RB5G40MRA	400	MH	230	50	Autoreg (CWA)	55	RB5
RB5G40MYA	400	MH	240	50	Autoreg (CWA)	55	RB5
RB6G01M6A	1000	MH	220	50	Autoreg (CWA)	55	RB6
RB6G01MRA	1000	MH	230	50	Autoreg (CWA)	55	RB6
RB6G01MYA	1000	MH	240	50	Autoreg (CWA)	55	RB6

*Available with 65°C ambient rating. Add "A" option. Example: RB5G40M0A to RB5G40M0AA. (All other configurations consult factory)

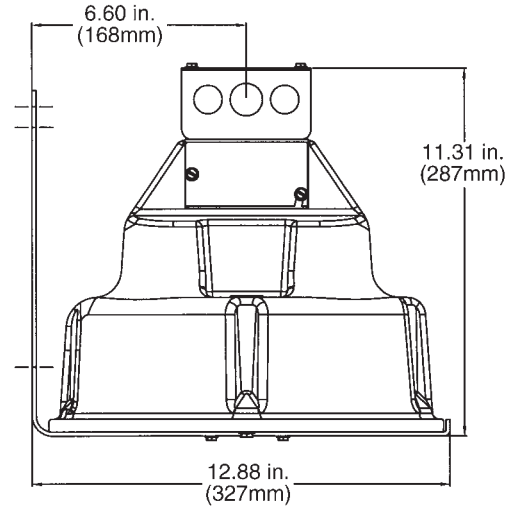
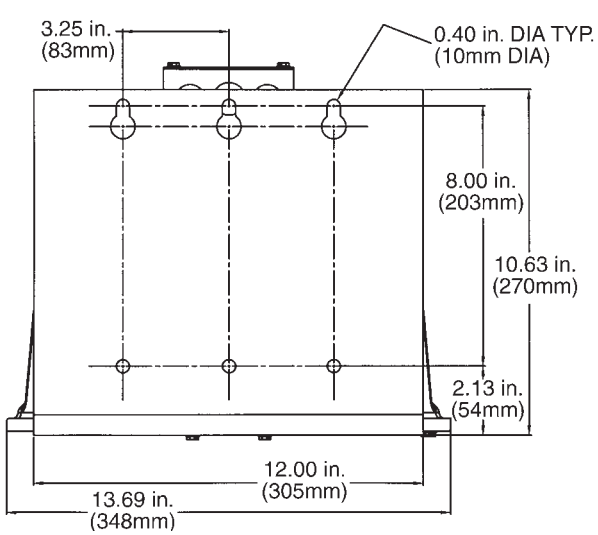
NOTE:

1. F (Fuse), B (Time delay automatically switched quartz), Q (Non-time delay automatically switched quartz) are available. Add F, B, or Q to end of ordering number when desired.
2. System 3 Bi-level available. Contact factory.

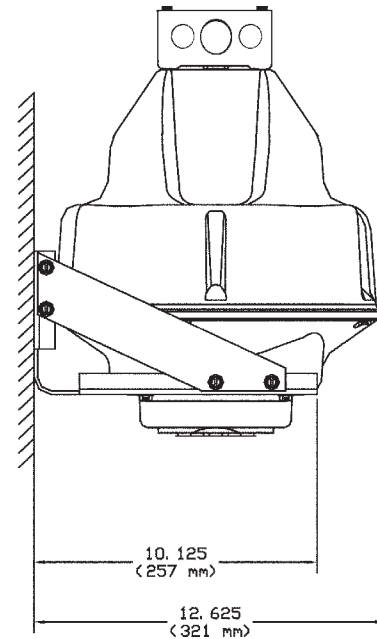
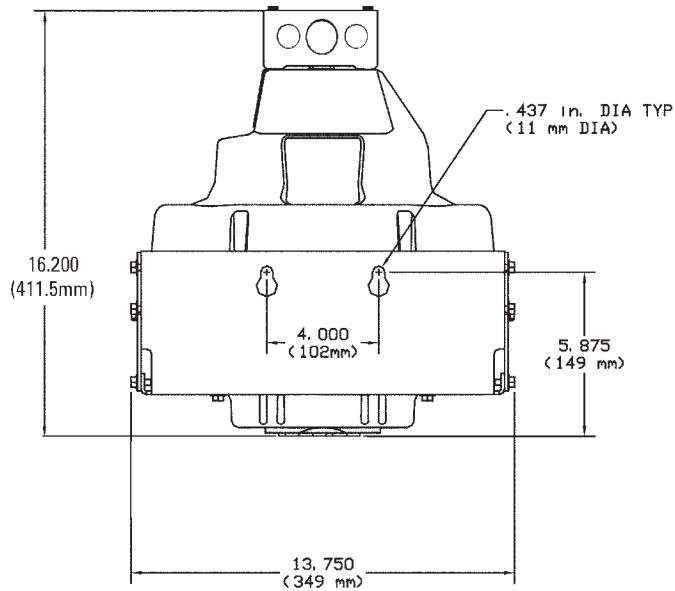
GE LIGHTING SYSTEMS REMOTE BALLAST

FIXTURE DIMENSIONS

RB5 – Generation 5 Housing



RB6 – Large Housing



REMOTE BALLAST INDOOR LIGHTING



REMOTE BALLAST GUIDELINES for GE Lighting Systems Remote Ballast

Use the following Remote Ballast Guidelines when installing GE Lighting Systems Remote Ballasts. See Page 109 for Start of Optical Component Ordering Number Logic.

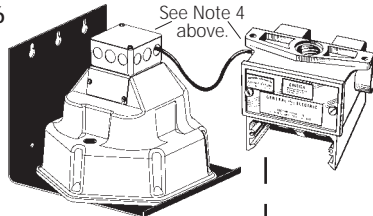
- NOTES:**
1. Refer to optical product pages for optical ambient and wattage limitations.
 2. Socket position may need adjusting. Refer to product pages.
 3. Distance from lamp to **RB5** or **RB6**: Metal halide—no limit provided no more than five volt drop in cable between remote ballast and optical; High Pressure Sodium—fifty feet.
 4. Wiring (by others) between optical and **RB5** or **RB6** should be 600 volt.
 5. Pulse start metal halide, limited to 10 feet.

Overall Height Bottom of Optical to Top of Remote Optical Mounting Box

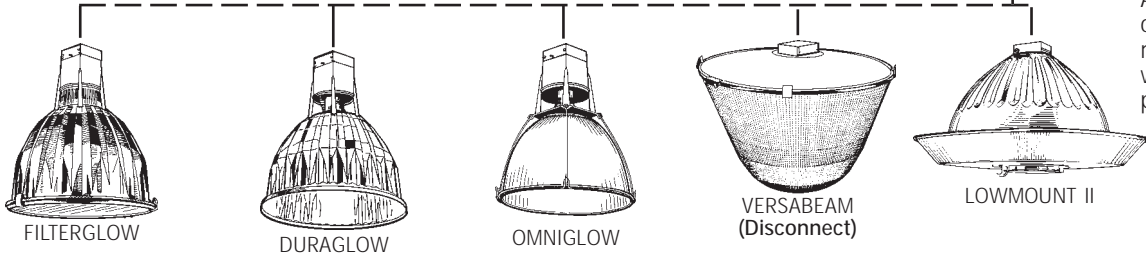
	in. (mm)	17-in. (mm) Dia.	22-in. (mm) Dia.	14-in. (mm) Dia.	18-in. (mm) Dia.
Filterglow		22.375 (568)*	22.625 (575)*		
Duraglow		22.125 (562)*	22.375 (568)*		
Omniglow(open)				20.125 (511)*	21.000 (533)*
Omniglow(enc)				20.750 (527)*	21.625 (549)*
Versabeam(VBD)	22.875(581)*				
LowmountII	21.500(546)*				

*Add 1.125 inches (29mm) when quartz socket supplied.

RB5/RB6
Ballast
Housing



RBOMB-FDG = Remote Ballasted Optical Mounting Box. (Required to install/wire optical. See Accessories for ordering information.) Usable with optics pictured.



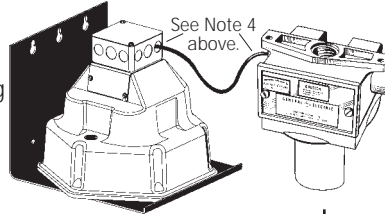
REMOTE BALLAST INDOOR LIGHTING

1

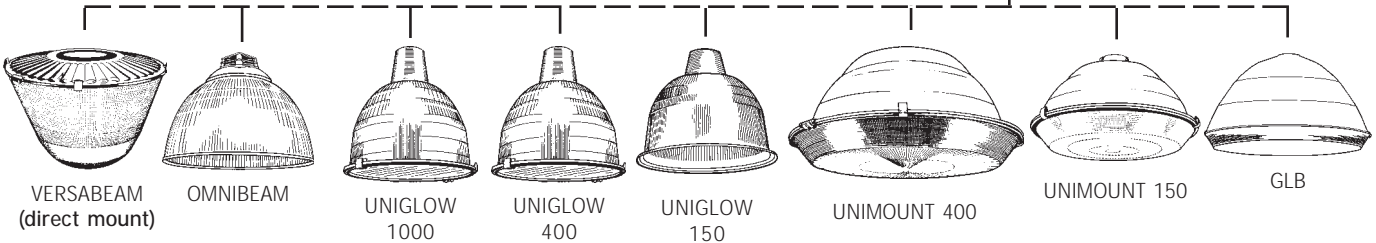
Overall Height Bottom of Optical to Top of Remote Optical Mounting Box

	in. (mm)	17-in.(mm) Dia.	22-in.(mm) Dia.
Versabeam(VB)	19.250(489)		
Omnibeam	21.875(556)		
Uniglow 400(Enclosed)		21.000(533)	23.125(587)
Uniglow 400(Open)		20.500(521)	22.625(575)
Uniglow 150(Enclosed)	15.875(403)		
Uniglow 150(Open)	15.625(397)		
Unimount 400	20.375(518)		
Unimount 150	17.125(435)		
GLB	20.000(508)		

**RB5/
RB6**
Ballast
Housing



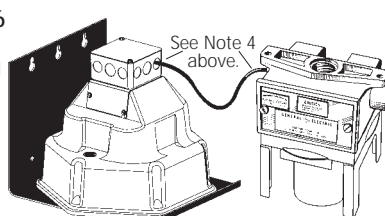
RBOMBA-UGUM = Remote Ballasted Optical Mounting Box. (Required to install/wire optical. See Accessories for ordering information.) Usable with optics pictured.



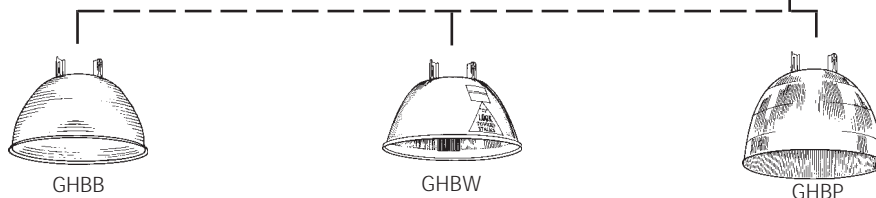
Overall Height Bottom of Optical to Top of Remote Optical Mounting

Box	High Pressure Sodium		Metal Halide
	Minimum	Maximum	
	in. (mm)	in. (mm)	in. (mm)
GHBB	14.500(368)	16.750(425)	16.750(425)
GHBW	13.500(343)	15.500(394)	15.500(394)
GHBP-16' Open	16.500(419)	18.000(457)	18.000(457)
GHBP-22' Open	18.250(464)	19.750(502)	19.750(502)

RB5/RB6
Ballast
Housing



RBOMB-GHBB = Remote Ballasted Optical Mounting Box. (Required to install/wire optical. See Accessories for ordering information.) Usable with optics pictured.



REMOTE BALLAST GUIDELINES for Pendant Mounted Filterglow Ballast and Single Remote Power Connector

Shown below are remote mounting components for GE Lighting Systems Industrial Products. Use this GE Lighting Systems Product Catalog to select optical and ballast ordering numbers. See Page 224 for Start of Component Ordering Number Logic.

NOTES: 1. Refer to optical product pages for optical ambient and wattage limitations.
2. Socket position may need adjusting. Refer to product pages.

Overall Height Bottom of Optical to Top of Remote Optical Mounting Box

	in. (mm)	17-in. (mm) Dia.	22-in. (mm) Dia.	14-in. (mm) Dia.	18-in. (mm) Dia.
Filterglow		22.375(568)*	22.625(575)*		
Duraglow		22.125(562)*	22.375(568)*		
Omniglow(open)				20.125(511)*	21.000(533)*
Omniglow(enc)				20.750(527)*	21.625(549)*
Versabeam(VBD)	22.875(581)*				
LowmountII	21.500(546)*				

*Add 1.125 inches (29mm) when quartz socket supplied.

FG5/FG6 Filterglow Ballast

SRPC3-FDG = Typical Single Remote Power Connector. (See Accessories for ordering numbers.) Usable with opticals pictured.

FILTERGLOW DURAGLOW OMNIGLOW VERSABEAM (Disconnect) LOWMOUNT II

Overall Height Bottom of Optical to Top of Remote Optical Mounting Box

	in. (mm)	17-in. (mm) Dia.	22-in. (mm) Dia.
Versabeam(VB)	19.250(489)		
Omnibeam	21.875(556)		
Uniglow 400(Enclosed)		21.000(533)	23.125(587)
Uniglow 400(Open)		20.500(521)	22.625(575)
Uniglow 150(Enclosed)	15.875(403)		
Uniglow 150(Open)	15.625(397)		
Unimount 400	20.375(518)		
Unimount 150	17.125(435)		
GLB	20.000(508)		

FG5/FG6 Filterglow ballast

SRPC3A-UG = Typical Single Remote Power Connector. (See Accessories for ordering numbers.) Usable with opticals pictured.

VERSABEAM (direct mount) OMNIBEAM UNIGLOW 1000 UNIGLOW 400 UNIGLOW 150 UNIMOUNT 400 UNIMOUNT 150 GLB

Overall Height Bottom of Optical to Top of Remote Optical Mounting Box

	High Pressure Sodium		Metal Halide
	Minimum	Maximum	
	in. (mm)	in. (mm)	in. (mm)
GHBB	14.500(368)	16.750(425)	16.750(425)
GHBW	13.500(343)	15.500(394)	15.500(394)
GHBP-16" Open	16.500(419)	18.000(457)	18.000(457)
GHBP-22" Open	18.250(464)	19.750(502)	19.750(502)

FG5/FG6 Filterglow ballast

SRPC3-GHBB = Typical Single Remote Power Connector. (See Accessories for ordering numbers.)

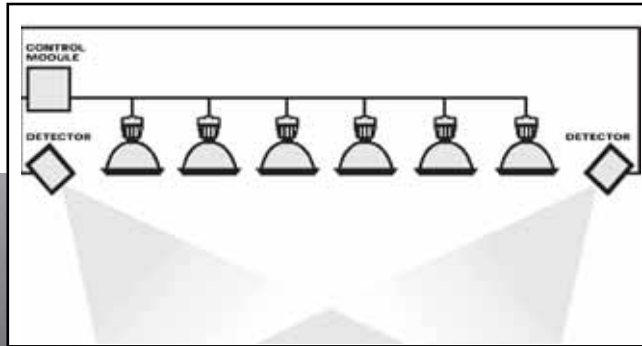
GHBB GHBW GHBP

REMOTE BALLAST INDOOR LIGHTING



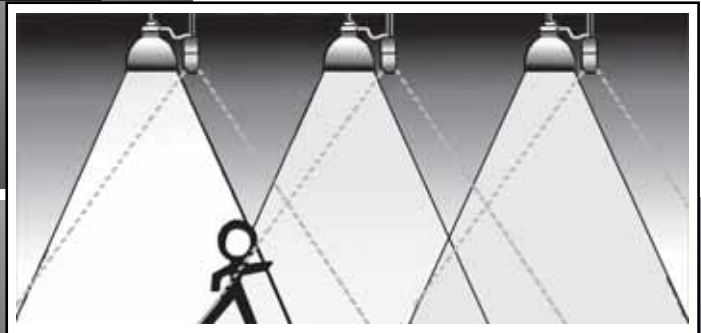
BI-LEVEL DIMMING CONTROLS

HID stepped dimming reduces energy load when unoccupied or manually controlled



ZONAL CONTROL - SYSTEM 3 BI-LEVEL™

- New installation
- Lowest initial cost
- Sensor controls multiple fixtures



INDIVIDUAL FIXTURE CONTROL - SOLO™ BI-LEVEL

- New or existing installations
- Sensor with each fixture location
- Simplified cost reduced installation
- Potential for greater energy savings

Patrol™ – Intermittent automatic metal halide lamp shut-off control

- Reduces risk of metal halide lamp non-passive failure by complying with lamp manufacturers recommended operation of lamp
- Reduces inconvenience of complete lighting system shut-down.
- Maintains uniform light output in continuous burn applications.

An optional control luminaire control system designed to comply with lamp manufacturers recommendations for lamp operation and concerns of non-passive lamp failure:

Patrol™ is an automatic intermittent lamp cut-off control integrating a timer and relay within the electro magnetic ballast that automatically switches off the luminaire for 15 minutes and then restarts once per week (approx. every 120 hours of operation). The turn off time is random and designed so that all units on a circuit will not cycle simultaneously thus reducing the chance of two adjacent luminaires being off at the same time.

Operates metal halide, pulse metal halide and ceramic metal halide lamps from 175 to 400 watt (contact factory for higher wattage requirements). Can withstand up to 25 amps and is suitable for 120-480 volts
Available on all luminaires with Gen 5 CWA or Mag-Reg ballast offerings. Supplied with additional bottom casting which increases Gen 5 height by 4.96".

- Filterglow (FGP)
- Duraglow (DGP)
- Versabeam (Disconnect & Surface Mount versions – VSP or VBP)
- Omniglow (OGP)
- Omnibeam (OBP)
- Uniglow (UGP)
- Unimount (UMP)
- LowMount II (LMP)

GE Lighting Systems, Inc.

www.gelighting.com

SYSTEM 3 BI-LEVEL™ CONTROL

SYSTEM 3™ BI-LEVEL CONTROL: A system 3 Bi-Level control provides two-level operation of high pressure sodium (HPS) and metal halide (MH) lamps. High pressure sodium can be supplied in 250, 400 and 750 watt, and metal halide controls in 250, 400 and 1000 watt and 250, 320, 350, 400, and 750 watt pulse start Metal Halide. High pressure sodium lamps are reduced to approximately one-third wattage while metal halide lamps are reduced to one-half wattage.

An infrared motion detector senses motion in the detection area and, through hard wiring to the luminaires, switches the luminaires to high wattage immediately. The luminaires remain at high wattage until the detector senses no motion in the area for five minutes. Then the luminaire will switch to its lower wattage. The luminaire will remain at reduced wattage until motion is detected in the area again. See specific product page for fixture availability.

HOW SYSTEM 3 BI-LEVEL WORKS: The GELS Bi-level luminaire is switched from high to low mode simply by applying a 24 volt AC control signal on control leads. Control wire must be Class 1 wire into Bi-level luminaire and Control Modules. Note: Class 1 control wires may be run in same conduit with line power. When the 24 volt signal is applied, the luminaire stays in the low mode. When the 24 volt signal is removed, it switches to the high mode. About 60% of the high light level is instantaneous, the remainder of the light level change can take approximately one minute.

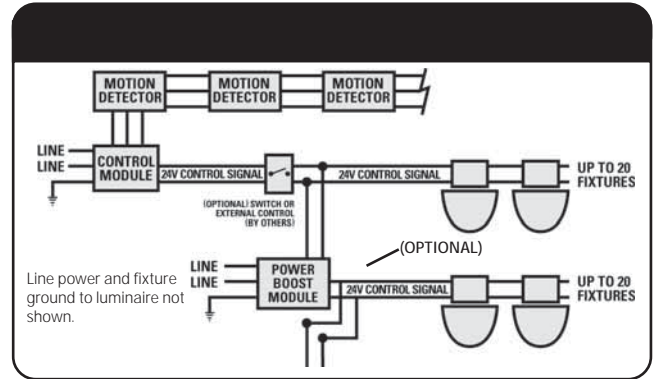
The heart of the System 3 Bi-level System is a Control Module that converts 120, 208, 240, 277, 347 or 480 volts of line power into the 24 volt AC control signal that may be applied to the Bi-level luminaire utilizing motion detectors, manual switches, timers, PE controls or energy management systems. Each of these functions will be described below. Control Modules are housed in a Nema 1 metal box with mounting legs which is available in four models to provide a wide range of control options. Reference Figure 5.

Each control zone must have a Control Module. Each Control Module will control up to 20 Bi-level luminaires. Additional luminaires may be controlled through the Control Module by utilizing a Power Boost Module. Each Power Boost Module allows for an additional 20 units. Reference Figure 1.

AUTOMATIC OPERATION WITH MOTION DETECTORS: For automatic operation of the Bi-level control system, a passive infrared (PIR) motion detector is utilized to detect motion in its control zone. When an occupant enters the detector's control zone, it removes the 24 volt AC control signal supplied from the Control Module. When the 24 volt signal is removed from the Bi-level luminaire, it switches to the high mode. Every time the occupant moves, the detector reacts by resetting a timer that controls the amount of time the fixture stays in the high mode. When motion is not detected for a preset time, the detector switches luminaires to low mode by applying the 24 volt signal to the control circuit. The timer is factory set for 5 minutes but is field adjustable from 30 seconds to 20 minutes. The PIR detectors cannot detect motion through solid objects. Therefore the space in the detection zone must be free of obstructions. PIR detectors respond to temperature changes as well as motion in their detection zone. Consequently, they should be positioned so that heaters, air conditioners, outside windows and lighting fixtures are not in direct view of the detection zone.

Manual high-override can be accomplished by inserting a wall switch in one leg of the 24 volt control circuit between the Control Module and luminaires. When the 24 volt signal is broken by the wall switch, the luminaires remain in high-mode until the switch is closed to resume the 24 volt signal to the luminaire. Reference Figure 1.

Figure 1



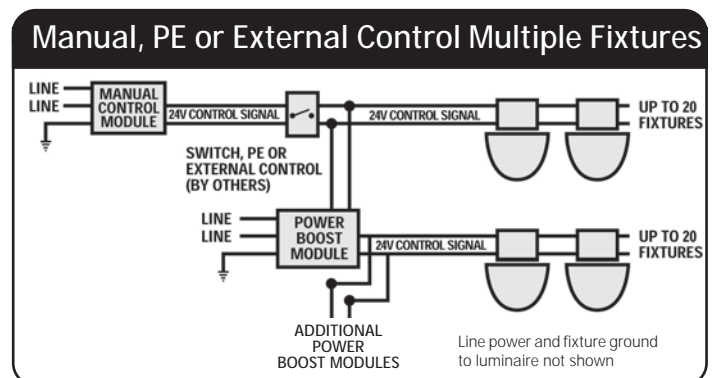
MANUAL, TIMER, PE AND ENERGY MANAGEMENT CONTROL

Bi-level luminaires may be controlled with manual switches, timers, PE controls or energy management systems by utilizing a Manual Control Module. The Manual Control Module provides two necessary functions. It converts line power into the 24 volt AC control signal required to switch Bi-level luminaires, and it provides a "Start at High" timer. When line power is applied to the Manual Control Module, it converts it to the 24 volt AC control signal required to switch Bi-level luminaires. The 24 volt control signal coming out of the Manual Control Module is routed through a manual switch, PE control, timer or energy management system. These devices are not supplied by GELS, however, they are readily available from other sources. For proper operation in the low mode, a 24 volt AC signal must be applied to the Bi-level luminaire. The 24 volt signal must be stopped for the luminaire to switch to the high mode.

Reference Figure 2.

Note: Contact factory for recommended PE control.

Figure 2



SYSTEM 3 BI-LEVEL™ CONTROL

CONTROL SYSTEMS COMPONENTS

Long Range Motion Detector:

- Mounting provision: Mounts into 2x4 J-box (by others). 2x4 J-box with knuckle mount (JB2X4KL) is available as accessory. **Reference Figure 3A.**
- Range: approx 100 feet when mounted 20 feet off floor. **Reference Figure 3.**
- Control Module required: Long Range Control Module. **Reference Figure 5.**

Note: "Start at High" timer is provided in Long Range Motion Detector.

Long Range Control Module:

To be used in conjunction with Long Range Motion Detector only.

- Mounting provision: Nema 1 sheet metal box. **Reference Figure 5.**
- Voltage specific. **Reference Figure 9** for catalog numbers.

Note: "Start at High" timer is provided with Long Range Motion Detector. Can accommodate up to 20 Bi-level luminaires. Additional luminaires may be added with the use of a Power Boost Module for every 20 additional fixtures. **Reference Figure 1.**

Manual Control Module:

To be used in conjunction with manual switches, timers, PE controls or energy management systems, (by others).

- Mounting provision: Nema 1 sheet metal box. **Reference Figure 5.**
- Voltage specific. **Reference Figure 9** for catalog numbers.
- Can accommodate up to 20 Bi-level luminaires. Additional luminaires may be added with the use of a Power Boost Module for every 20 additional fixtures. **Reference Figure 2.**

Note: "Start at High" timer included

Power Boost Module:

Use a Power Boost Module for every 20 Bi-level luminaires above the 20 luminaires accommodated by Control Module. **Reference Figures 1 & 3.**

- Mounting provision: Nema 1 sheet metal box. **Reference Figure 5.**
- Voltage specific. **Reference Figure 9** for catalog numbers.

Note: "Start at High" timer not included.

Sub Control Module:

- Mounting provision: Nema 1 sheet metal box. **Reference Figure 5.**
- Sub Control Module must be used in conjunction with a Control Module and allows split control zones. A Control Module switches an entire group of luminaires (up to 20). The Sub Control Module allows for independent switching of luminaires that are controlled by a specific Control Module. This is an alternative when a separate control zone is required within a group of 20 luminaires such as an aisle. The Sub Control Module receives control voltage from the Control Module.
- A total of 20 Bi-level luminaires may be controlled by a Control Module/Sub Control Module combination. Note that the Sub Control Module does not allow for additional luminaires to be controlled from a Control Module. A Power Boost Module is required for additional luminaires. (20 luminaires per Power Boost Module). Not voltage specific. **Reference Figure 9** for catalog number.

Note: "Start at High" timer not included.

Optional 2x4 Junction Box with knuckle mount:

- 2x4 inch junction box with knuckle mount. **Reference Figures 3A.**
- 2x4 junction box accommodates motion detector. **Reference Figure 9** for catalog number. (Knuckle mount to allow aiming detector).

Figure 3

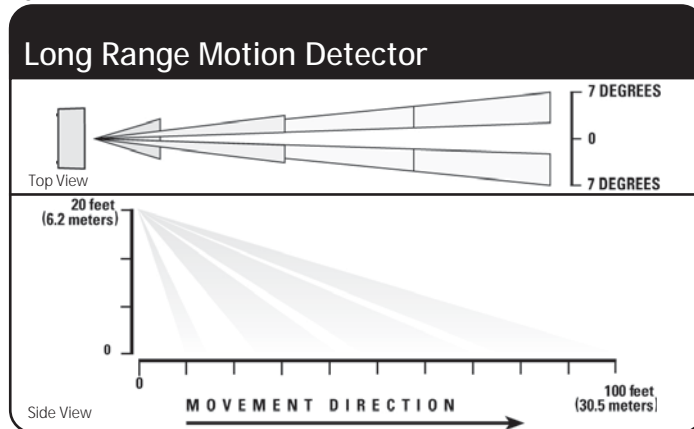


Figure 3A

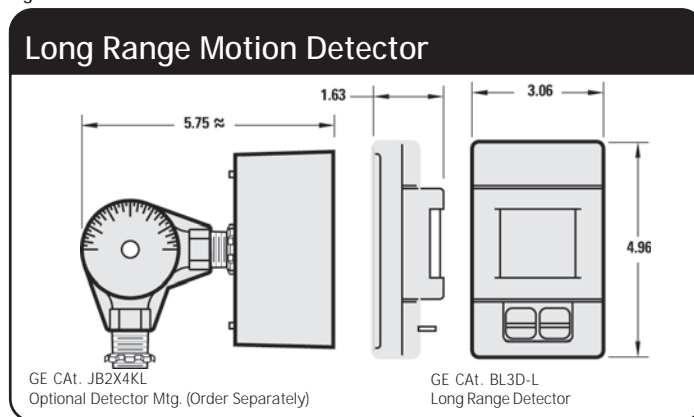
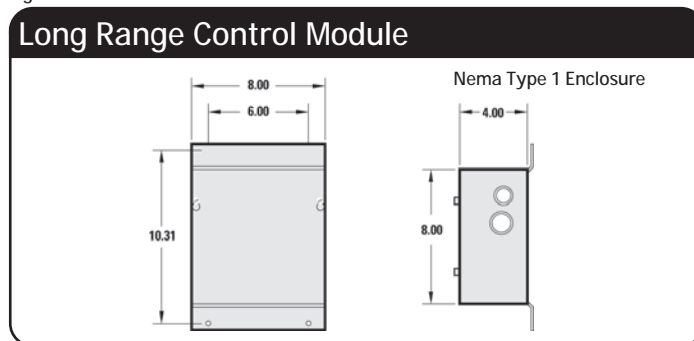


Figure 5



System 3 Bi-level Control is available for "Freezer" applications. Consult factory for details. All HID ballasts will provide satisfactory lamp starting to -20F (-40F for HPS) minimum over recommended line-voltage variation.

HID Lamp Stabilization:

HID lamp manufacturers require that lamps be operated in high mode for 15 minutes at cold start. This requirement is accomplished by means of a "Start at High" timer. This timer is provided as part of the GELS motion detector or Control Module as listed below. Line power to Bi-level luminaires and the Control Module do not have to be on the same circuit. However, it is recommended that power to all circuits be turned on at the same time if they are not on same circuit. This will eliminate the possibility of Bi-level luminaires starting in low mode at cold start. Cold starting in low mode will result in shortened lamp life and loss of lamp warranty. Follow National Electrical Code and any applicable local codes in fixture circuit design.

SYSTEM 3 BI-LEVEL™ CONTROL

Control Module Primary Input Power Specifications	
Voltage	Operating Amps
120	0.4
208	0.3
240	0.2
277	0.2
347	0.2
480	0.1

Control Circuit Electrical Specifications			
Control Voltage	Amp Draw per luminaire	Maximum number of luminaires per power module	Additional luminaires for each power boost module added to circuit
24 volt AC	.05	20	20

Bi-Level 3 Catalog Numbering System	
Cat	Volts
LONG RANGE CONTROL MODULE	
BL3C-1PL	120
BL3C-2PL	208
BL3C-3PL	240
BL3C-4PL	277
BL3C-5PL	480
BL3C-DPL	347
MANUAL CONTROL MODULE	
BL3C-1PM	120
BL3C-2PM	208
BL3C-3PM	240
BL3C-4PM	277
BL3C-5PM	480
BL3C-DPM	347

Bi-Level 3 Catalog Numbering System	
Cat	Volts
SUB CONTROL MODULE	
BL3C-NSC	NOT VOLTAGE SPECIFIC
POWER BOOST MODULE	
BL3C-1PB	120
BL3C-2PB	208
BL3C-3PB	240
BL3C-4PB	277
BL3C-5PB	480
BL3C-DPB	347
LONG RANGE MOTION DETECTOR (START AT HIGH TIMER)	
BL3D-L	ALL VOLTS
2X4 JUNCTION BOX W/ KNUCKLE MOUNT JB2X4KL FOR LONG RANGE DETECTOR	

BI-LEVEL INDOOR LIGHTING



SYSTEM 3 BI-LEVEL™ AND SOLO™ BI-LEVEL ENERGY SAVINGS					
Lighting Systems Savings with Bi-Level Controls					
Lamp Type/watts	INPUT WATTAGE		Watts saved Per fixture at Reduced rate	INITIAL AVERAGE LUMENS	
	Full	Reduced		Full	Reduced
High Pressure Sodium					
750 Watts	839watts	320watts	519watts	110,000	22,500
400 Watts	468watts	195watts	273watts	50,000	11,000
250 Watts	295watts	120watts	175watts	28,000	6,000
250 Watts	295watts	120watts	175watts	30,000	6,500
Metal Halide					
1000 Watts	1,080watts	548watts	513watts	110,000	30,200
400 Watts	465watts	252watts	213watts	40,000	12,000
250 Watts	282watts	184watts	098watts	20,800	10,500
Pulse Start Metal Halide					
750 Watts	822watts	457watts	365watts	82,000	25,000
400 Watts	459watts	239watts	220watts	44,000	13,200
350 Watts	394watts	225watts	169watts	37,000	12,000
320 Watts	368watts	238watts	130watts	34,000	13,000
250 Watts	285watts	184watts	101watts	23,000	11,500

Note: System 3 Bi-Level control is not compatible with former GELS System 2 Bi-Level controls or fixtures.

SOLO™ HID DIMMING CONTROL



APPLICATIONS

- With the SOLO HID Dimming Control Module each fixture is controlled individually, maximizing energy savings. The SOLO decreases installation time and reduces total cost of HID control 50% to 60%. "Plug and Play" connection makes for quick and easy installation between fixtures. Recommended mounting height for the SOLO module corresponds with the mounting height of the 400 watt fixture.

SPECIFICATION FEATURES

- 1598 Listed
- Suitable For Damp Locations
- Listed to Canadian standards and codes
- Integral autonomous HID dimming.
- Ballast type: For use with CWA (Constant Wattage Auto-Transformer ballast's only).
- Lamp type: For use with Metal Halide & High Pressure Sodium
- Wattage reduction: Input wattage is reduced depending on lamp type and wattage
- Lamp warm-up: Microprocessor lamp current monitoring for guaranteed 15 minute lamp warm-up based on lamp manufacturers recommendations
- Extended dim lamp protection: The microprocessor monitors continuous dim time of the lamp Each lamp bright cycle resets this timer. If lamp is dimmed continuously for 24 hours, lamp is automatically cycled to full power for 15 minutes to increase lamp life
- PIR Motion Sensor: 9.6 square inches of optical lens at 2.15" focal length
- Sensor timer settings: 2, 4, 8, 16, 64 min. time interval adjusts sensitivity for optimum performance
- Field replaceable lens: Color coded removable / interchangeable lens available to match control application
- Sensor laser alignment: accurate aiming of sensor pattern to within +/- 2 degrees
- Forced dim option: after lamp warm-up, optional setting allows sensor to be disabled for continuous dim mode
- Self diagnostics test button: momentary push button initiates self diagnostic to verify control module is operating properly
- Mounting: 3/4" threaded conduit adapter with security set screw
- Power cord: 6" length standard with adapter plug included
- Operating temperature range: -22° F to +149° F (-30° C to +65° C)
- Dimensions: 13.25" H x 5.5" W x 2.6"D (33.6 x 14.0 x 6.6cm)
- Housing material: impact resistant, injection-molded plastic

SOLO INDOOR LIGHTING

1

SIMPLE 4 COMPONENT SYSTEM

STEP 1:

SOLO port option in GELS fixture order logic (See product page)

Product Catalog Option
Y

Y = SOLO port in ballast housing with jumper plug included

STEP 2:

Control Module			
Product ID	Wattage	Light Source	Cord Length
ABLM	40	P	6
ABLM	25 = 250	M = MH	6 = 6 Ft. Length
	32 = 320	P = PMH	
	35 = 350	S = HPS	
	40 = 400		

Note: See page I-99 for Energy Savings

STEP 3:

Sensor Lens		
Product ID	Lens Type	
ABLM-	LB10	
	LB07 = .7 x .16 Pattern	
	LB10 = 1.0 x .23 Pattern	
	LB15 = 1.5 x .23 Pattern	
	LB0806 = .8 x .6 Pattern	

STEP 4:

Laser Alignment tool (Optional) 1 per job		
Product ID	Laser Type	
ABLM-	LAT-1	

STANDARD TEMPERATURE RATINGS CURRENTLY AVAILABLE

	250	320	350	400
MH	65 deg. C	NA	NA	65 deg. C
pMH	65 deg. C	65 deg. C	65 deg. C	65 deg. C
HPS	65 deg. C	NA	NA	55 deg. C*

* Contact factory for 400 watt HPS 65C

SOLO® HID DIMMING CONTROL

Autonomous Bi-Level

SIMPLE 3 COMPONENT SYSTEM:

- 1). SOLO Port in fixture ("Y" option in catalog order logic)
- 2). SOLO Control module with connector
- 3). SOLO Sensor lens
- * Each ordered separately
- 4). SOLO Laser Alignment Tool optional (Removable - one per project)

With SOLO Bi-level, each fixture is ordered with a ABL port (item 1) in the fixture option of GELS fixture order logic. The "Y" option includes a jumper insert plug that allows the fixture to be operated normally when left in. If Bi-level is desired, the jumper plug is removed and the SOLO Control Module is plugged into the fixture SOLO port (Y option). The control module is powered by the fixture. No additional electrical wiring is needed. The SOLO Control Module is provided with a 3/4" threaded mounting adapter and must be rigid mounted. Item 2 and Item 3 attach together to make a complete SOLO Bi-Level unit. The SOLO unit plugs into the fixtures "Y" option port (Item 1).



Laser Alignment Tool

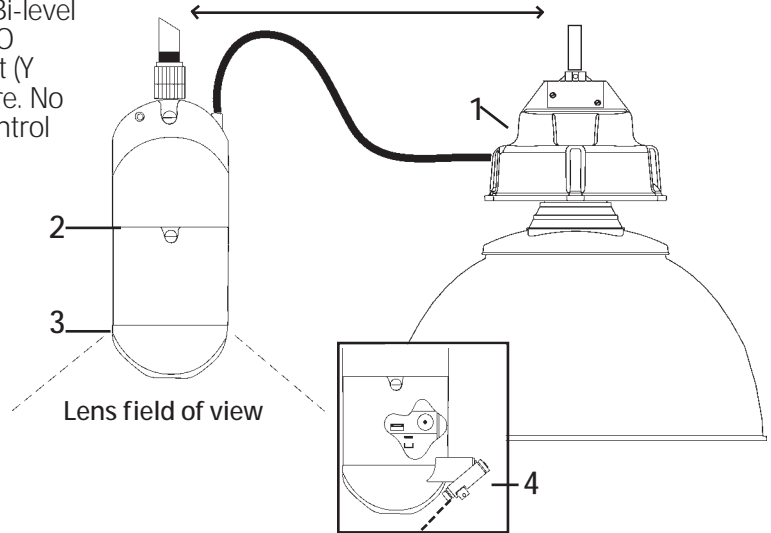


SOLO Module Control

Typical Configuration

- SOLO Control Module is rigid mounted and powered by fixture.

Distance between fixture & 3/4in threaded mounting pipe 6 feet max.



Portable laser alignment tool snaps on for quick and easy alignment, only one needed per project.

SOLO INDOOR LIGHTING



LENS SPECIFICATIONS

LENS SELECTION

ABLM-LB10 = 1.0 x .23 Pattern (L) x (W)

ABLM-LB07 = .70 X .16 Pattern

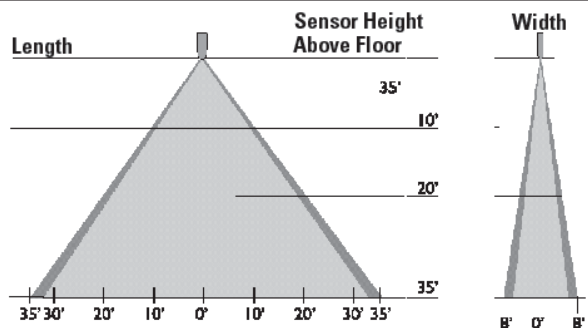
ABLM-LB15 = 1.5 X .23 Pattern

ABLM-LB0806 = .80 X .60 Pattern

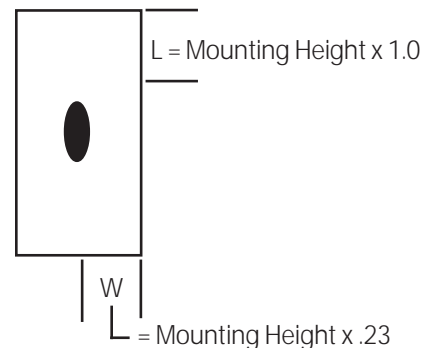
PATTERN:

(L) Length X Mounting Height = Sensor Pattern Length in one direction.

(W) Width X Mounting Height = Sensor Pattern Width in one direction.



ABLM-LB10 = 1.0 x .23 Pattern At 35' MH



ACCESSORIES

REFER TO ACCESSORY INDEX BELOW TO MATCH ACCESSORY WITH PRODUCT. ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

See following Accessory pages for dimension drawings and descriptions.

LEGEND: // = Accessory can be used.

INDEX	PRODUCT																					
	Ordering Number	Filter-glow	Dura-glow	Omni-glow	Versa-beam	Omni-beam	Uni-glow 400/1000	Uni-glow 150	CHB CLB CPB GHB	GHB Warehouse	GHB Prismatic	Low-mount II	Low-mount 400	Con-serva 400	GLB Uni-mount	MID-BAY	Low-mount 150	Con-serva 150	Versa-glow 150,250	Gar-gage Gard	Mini-mite	Mini-mount
HOOK																						
HOOK	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HOOKFG	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HOOKM	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HOOKMG	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOP																						
LOOPF	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOPFG	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOPM	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOPMG	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HOOK (MALE), CORD AND PLUG																						
HCP120	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HCP250	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HCP277	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HCP347	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
HCP480	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOP (MALE), CORD AND PLUG (Can be used with Locking Receptacle Hook Box)																						
LCP120	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCP250	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCP277	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCP347	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCP480	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
RECEPTACLE HOOK/BOX (Called "Power Hook" when used with appropriate Loop, Cord and Power Hook Plug)																						
RHBT	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
RHBNTF	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOOP, CORD AND POWER HOOK PLUG (For use with Receptacle Hook/Box)																						
LCP-RHB	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCPFH-F1	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LCPFH-F2	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LOCKING RECEPTACLE HOOK BOX																						
LRHB120	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LRHB250	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LRHB277	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LRHB347	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
LRHB480	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
TWIN MOUNTING ARM																						
TMA-HB	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
THRU-WIRE OUTLET BOX																						
TWOB-ACC	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
TWOBP-IND	//	//	//	//	//	//	//	6	//	//	//	//	//	//	//	//	//	//	//	//	//	//
SAFETY CHAIN																						
SFC-O	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
SFC3-B	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
SFC5-B	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
SFC7-B	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
SFC10-B	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
WIRE GUARD																						
*FWG-GEN5S			//		22"				//							CF						
*FWG-GEN5L			//		26"																	
*FWG-CPB								CPB														
H2000-NE							//	2	//													
WGLB-22															4		//	//				
WGLB-30												//	//	5								
WGNH-17E	//					//																
WGNH-17V		//				//																
WGNH-22E	//					//																
WGNH-22V		//				//																
WGNH-MMN																						//
WGRH-17V		//				//																
WGRH-22V		//				//																
WGRH-OMG14			//							7												
WGRH-OMG18			//																			
WGRH-OMB26						//																
MULTI-PURPOSE MOUNTINGS																						
MPM-C														//			//	//	3	//	//	//
MPM-3PR														//			//	//	3	//	//	//
MPM-3PRW														//			//	//	3	//	//	//
MPM-3PRTFW														//			//	//	3	//	//	//
MPM-3PF														//			//	//	3	//	//	//
MPM-OBSC														//			//	//	3	//	//	//
MPM-5ASW																				3	//	//
MPM-W3TFW																				3	//	//
MPM-WW																				3	//	//
MPM-WW01																				3	//	//

1-Requires use of MPM-3PF. 2-For GHB and CHB only. Requires use of Gym Clip, CHB-GC, on CHB. 3-Requires ballast with primary disconnect. 4-Used for Unimount 150 only. 5-Used for Unimount 400 only 6-Used for GHB 7-Used for 14" Glass Reflector only. Open or enclosed.

* Wireguard for Gen5 only

GE Lighting Systems, Inc.

www.gelightingssystem.com

INDOOR LIGHTING ACCESSORIES



ACCESSORIES

REFER TO ACCESSORY INDEX BELOW TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

See following Accessory pages for dimension drawings and descriptions.

LEGEND: // = Accessory can be used.

INDEX	PRODUCT															
	Filter-glow	Dura-glow	Omni-glow	Versa-beam	Omni-beam	Uniglow 400/1000	Uniglow 150	CHB, CLB CPB, GHB	GHB Warehouse	GHB Prismatic	Lowmount II	Lowmount 400	Unimount GLB	MIDBAY	Lowmount 150	Garage Gard
DOOR ASSEMBLIES																
DGD4-GHBP										//////4						
EAL2-GHBP					//////5			//////8		//////5						
EAL6-GHBP										//////6						
EAPL2-GHBP					//////5			//////8		//////5						
EAPL6-GHBP										//////6						
EARL6-GHBP										//////6						
DOORGLASS																
DGA6-GHBB								1	2							
EXTERNAL LIGHT SHIELD																
ELS-GGD																//////
FUSE KITS																
FK1-IND	//////	//////	//////	//////	//////	//////	//////	3	//////	//////	//////	//////	//////	//////	//////	//////
FK2-IND	//////	//////	//////	//////	//////	//////	//////	3	//////	//////	//////	//////	//////	//////	//////	//////
HIGH BAY REFLECTOR RETENTION CLIP (Required on CHB reflector when using H2000-NE)																
CHB-GC								7								

CRANE MOUNTED REMOTE BALLAST

HORIZONTAL SURFACE MOUNTING BRACKET (For Remote Mounting Filterglow® Luminaire large ballast housing)																
HSM-FGL	//////	//////														
VERTICAL SURFACE MOUNTING BRACKET (For Remote Mounting Filterglow Luminaire large ballast housing)																
VSM-FGL	//////	//////														

REMOTE BALLAST - MOUNTING

MALE CONNECTOR (For Remote Mounting Filterglow Luminaire ballast housing)																
MCS-FGB	//////	//////	//////	VBSD												
MCD-FGB	//////	//////	//////	VBSD												
OPTICAL VIBRATION ISOLATION ASSEMBLY																
OVIA	//////	//////														
PRIMARY ELECTRICAL DISCONNECT BOX																
PEDBGR-FDG	//////	//////	//////	//////	//////	//////	//////	3	//////	//////	//////	//////	//////	//////	//////	//////
REMOTE BALLASTED OPTICAL MOUNTING BOX (NOTE: HPS lamps require an ignitor to be within 10 feet)																
RBOMB-FDG	//////	//////	//////	VBSD												
RBOMB-FDGO	//////	//////	//////	VBSD												
RBOMBA-UGUM				VBS		//////	//////					//////	//////			
RBOMBA-UGUMO				VBS		//////	//////					//////	//////			
RBOMBF-UGUM				VBS		//////	//////					//////	//////			
RBOMBF-UGUMO				VBS		//////	//////					//////	//////			
RBOMB-GHBB								3	//////	//////						
RBOMB-GHBBQ								3	//////	//////						
SINGLE REMOTE POWER CONNECTOR (For dual plug connector for use with automatically switched quartz, change prefix 'S' to 'D') (For connectors suitable for wet locations, add 'W' suffix to end of ordering number) (Wet location available only for FDG)																
SRPC3-FDG	//////	//////	//////	VBSD							//////					
SRPC5-FDG	//////	//////	//////	VBSD							//////					
SRPC7-FDG	//////	//////	//////	VBSD							//////					
SRPC10-FDG	//////	//////	//////	VBSD							//////					
SRPC3A-UG				VBS		//////	//////					//////	//////			
SRPC5A-UG				VBS		//////	//////					//////	//////			
SRPC7A-UG				VBS		//////	//////					//////	//////			
SRPC10A-UG				VBS		//////	//////					//////	//////			
SRPC3F-UG						//////	//////					//////	//////			
SRPC5F-UG						//////	//////					//////	//////			
SRPC7F-UG						//////	//////					//////	//////			
SRPC10F-UG						//////	//////					//////	//////			
SRPC3-GHBB								3	//////	//////						
SRPC5-GHBB								3	//////	//////						
SRPC7-GHBB								3	//////	//////						
SRPC10-GHBB								3	//////	//////						

1-See Page I-38 for GH5 & GW5 Door Glass Limitation Table. 2-See Page I-40 for Door Glass Limitation Table. 3-Used for GHB only.
4-14" Glass Reflector only. 5-22" Acrylic Reflector only. 6-16" Acrylic Reflector only. 7-Use for CHB only. 8-CPB-V2 only.



GENERATION 5 / GENERATION 6 BALLAST HOUSING ACCESSORIES

REFER TO ACCESSORY INFORMATION BELOW TO DETERMINE AVAILABILITY IN CONJUNCTION WITH GENERATION 5 PRODUCTS. THE ACCESSORIES LISTED BELOW ARE FOR GENERATION 5 ONLY.

SLIDING DISCONNECT

FG5- Filterglow 400
FG6- Filterglow 1000
DG5- Duraglow 400
DG6- Duraglow 1000
OG5- Omniglow 400
OG6- Omniglow 1000
VS5- Versabeam
LM5- Lowmount II

DIRECT OPTICAL MOUNT

VB5- Versabeam
OB5- Omnibeam 400
OB6- Omnibeam 1000
UG5- Uniglow 400
UG6- Uniglow 100
UW5- Uniglow 150
UM5- Unimount 400
UT5- Unimount 150
FP5- Foodpro

INDOOR LIGHTING ACCESSORIES

1

EZ CONNECT™ HOOK (MALE) CORD AND PLUG — GEN 5 & GEN 6 ONLY

Integral hook, 3 ft (0.9 meters) usable cable #16-3, 105°C. This accessory easily plugs into the GEN 5 plug-in connector. Works only with the new GEN 5 fixtures listed above. Additional height from fixture is 3.6 in.

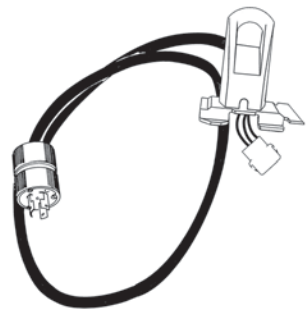
- EZHCP120
120V (Plug NEMA Line #L5-15)
 - EZHCP250
208V & 240V (Plug NEMA Line #L6-15)
 - EZHCP277
277V (Plug NEMA Line #L7-15)
 - EZHCP347
347V (20 amp plug) (P&S L3720P)
 - EZHCP480
480V (Plug NEMA Line #L8-20)
- Note:** Not for use with Multivolt fixtures



EZ CONNECT™ LOOP (MALE) CORD AND PLUG — GEN 5 & GEN 6 ONLY

Integral loop, 3 ft (0.9 meters) usable cable #16-3, 105°C. This accessory easily plugs into the GEN 5 plug-in connector. Works only with the new GEN 5 fixtures listed above. Additional height from fixture is 3.6 in.

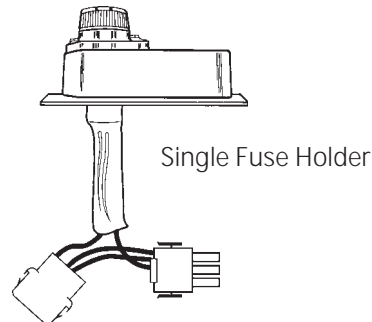
- EZLCP120
120V (Plug NEMA Line #L5-15)
 - EZLCP250
208V & 240V (Plug NEMA Line #L6-15)
 - EZLCP277
277V (Plug NEMA Line #L7-15)
 - EZLCP347
347V (20 amp plug) (P&S L3720P)
 - EZLCP480
480V (Plug NEMA Line #L8-20)
- Note:** Not for use with Multivolt fixtures



EZ CONNECT™ FUSE KITS — GEN 5 & GEN 6 ONLY

This accessory easily plugs into the GEN 5 plug-in connector. Works only with the new GEN 5 fixtures listed above.

- EZFK1-IND
Single Fuse Holder (pictured)
 - EZFK2-IND
Double Fuse Holder
- Note:** Not for use with Multivolt fixtures




ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

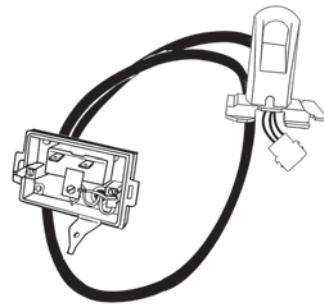
EZ CONNECT™ LCP-RHB — GEN 5 & GEN 6 ONLY

Loop, Cord and Power Hook Plug with Generation 5 plug-in connector. For use with Receptacle/Hook Box RHBTF or RHBNTF (see next page).

 **UL LISTED** Ordering numbers shown are UL Listed for load make/break. Note: Available as suitable for wet locations. Add "W" suffix to end of ordering number.

- **EZLCP-RHB**
120V, 208V, 240V, 277V, 480V unfused
- **EZLCP-RHBF1**
120V or 277V with single fuseholder (less fuse)
- **EZLCP-RHBF2**
208V, 240V or 480V with double fuseholders (less fuses)

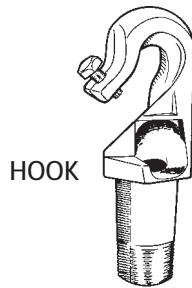
* **NOTE:** Not for use with Multivolt Fixtures



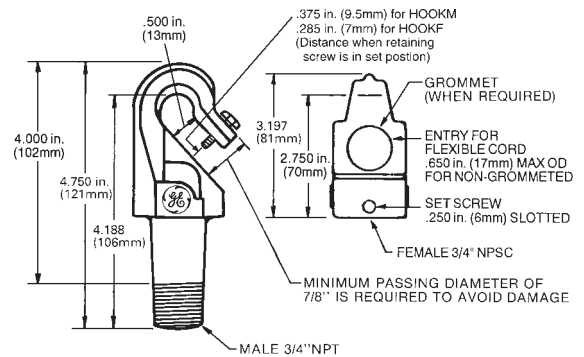
Loop, Cord and Power Hook Plug

HOOK

- **HOOKF**
Female
- **HOOKFG**
Female Grommated
- **HOOKM**
Male
- **HOOKMG**
Male Grommated

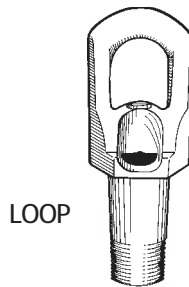


HOOK

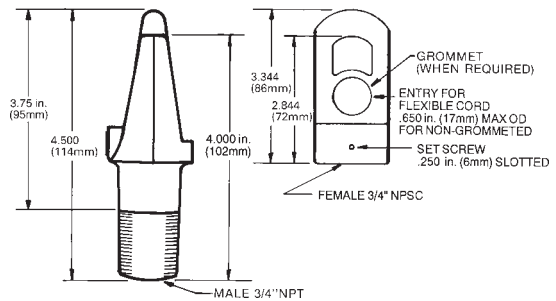


LOOP

- **LOOPF**
Female
- **LOOPFG**
Female Grommated
- **LOOPM**
Male
- **LOOPMG**
Male Grommated



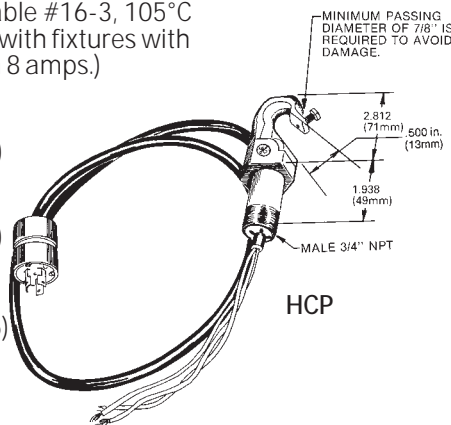
LOOP



HOOK (MALE) CORD AND PLUG

3 ft (0.9 meters) usable cable #16-3, 105°C (Contact factory for use with fixtures with line current greater than 8 amps.)

- **HCP120**
120V (Plug NEMA Line #L5-15)
- **HCP250**
208V & 240V (Plug NEMA Line #L6-15)
- **HCP277**
277V (Plug NEMA Line #L7-15)
- **HCP347**
347V (20 amp plug) (P&S L3720P)
- **HCP480**
480V (Plug NEMA Line #L8-20)

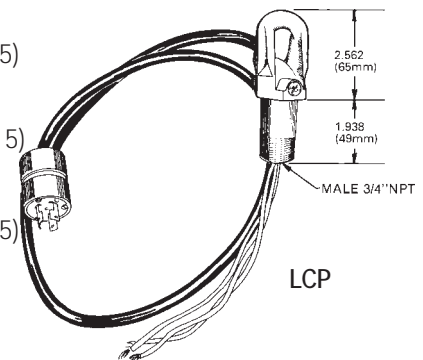


HCP

LOOP (MALE), CORD AND PLUG

3 ft (0.9 meters) usable cable #16-3, 105°C (Contact factory for use with fixtures with line current greater than 8 amps.)

- **LCP120**
120V (Plug NEMA Line #L5-15)
- **LCP250**
208V & 240V (Plug NEMA Line #L6-15)
- **LCP277**
277V (Plug NEMA Line #L7-15)
- **LCP347**
347V (20 amp plug) (P&S L3720P)
- **LCP480**
480V (Plug NEMA Line #L8-20)



LCP

ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

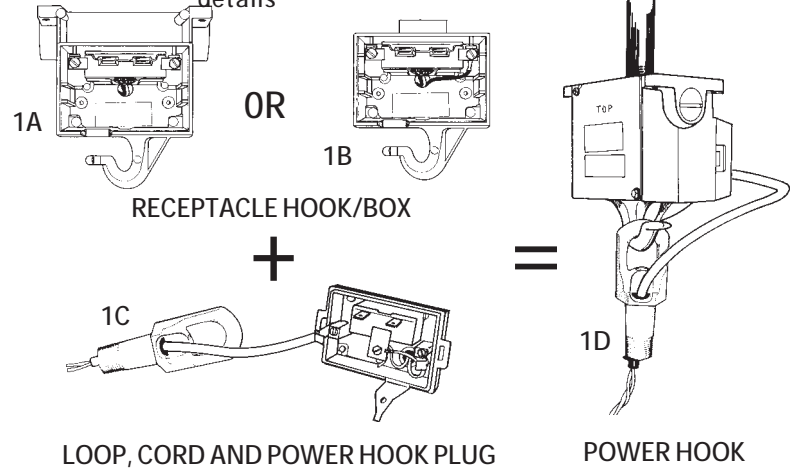
UL LISTED –called “Power Hook” (Figure 1D) when used with appropriate Loop, Cord and Power Hook Plug

FIG. 1- TYPICAL POWER HOOK
See Fig. 2 or Fig. 3 for details

RECEPTACLE HOOK/BOX — POWER HOOK (For use with Loop, Cord and Power Hook Plug)

Provisions for 3/4-in. rigid pendant mounting with 3/4-in. Thru Feed Capability (Figure 2):

- RHBTF (Thru Feed) (Figure 1A):
120V, 208V, 240V, 277V, 480V
NOTE: Available as suitable for wet locations.
Add “W” suffix to end of ordering number
- RHBNTF (Non-Thru Feed) (Figure 1B):
120V, 208V, 240V, 277V, 480V



LOOP, CORD AND POWER HOOK PLUG (For use with Receptacle Hook/Box)

UL LISTED Ordering numbers shown are UL Listed for load make/break.
NOTE: Available as suitable for wet locations.
Add “W” suffix to end of ordering number

- LCP-RHB (Figure 1C)
120V, 208V, 240V, 277V, 480V unfused
- LCPFH-F1 (Figure 1C)
120V or 277V with single fuseholder
(Less fuse)
- LCPFH-F2 (Figure 1C)
208V, 240V or 480V with double fuseholders
(Less fuses)

Fig. 2-Thru Feed

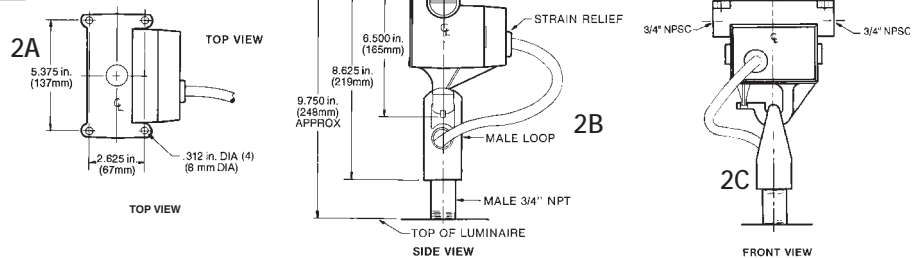
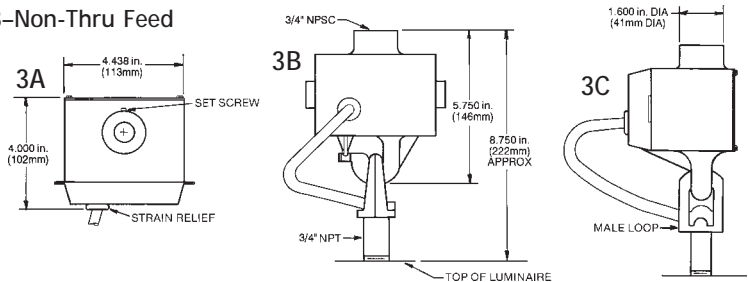


Fig. 3-Non-Thru Feed



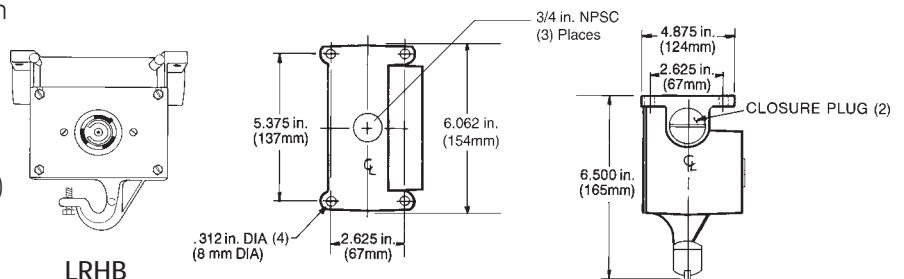
LOCKING RECEPTACLE HOOK BOX (For use with Loop, Cord and Plug (see previous page))

UL LISTED **cUL**

Provisions for 3/4-in. rigid pendant mounting with 3/4-in.

Thru Feed Capability

- LRHB120
120V (Locking Receptacle NEMA L5-15R)
- LRHB250
208V & 240V (Locking Receptacle NEMA L6-15R)
- LRHB277
277V (Locking Receptacle NEMA L7-15R)
- LRHB347
347V (Locking Receptacle P&S L3720-R)
- LRHB480
480V (Locking Receptacle NEMA L8-20R)



GE Lighting Systems, Inc.
www.gelightingssystem.com

Compatible Components

INDOOR LIGHTING ACCESSORIES

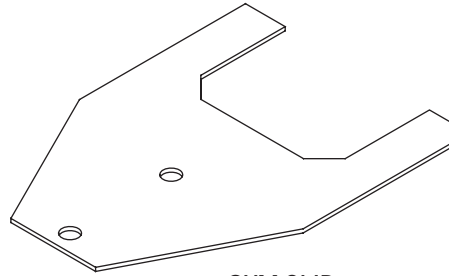
ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

HIGH BAY REFLECTOR RETENTION CLIP

- CHB-GC

Required on CHB reflector when using H2000-NE.
NOTE: N/A with Prismatic Optical

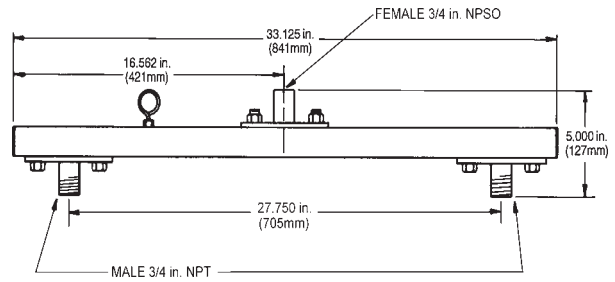


GYM CLIP

TWIN MOUNTING ARM

- TMA-HB

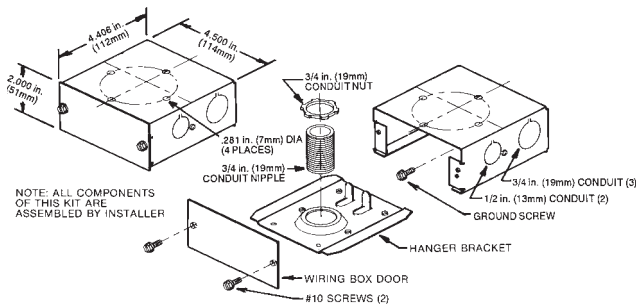
Use to tandem mount any two luminaires (must be of same weight if arm is suspended by hook or loop). Arm is painted steel with two male 3/4-in. pipe couplings for luminaire mounting and one female 3/4-in. NPT pipe coupling for hook, loop or direct circuit mounting. Arm has bottom snap-in closure strip for wiring ease. Eyebolt for field addition of safety chain(s) is provided.



THRU-WIRE OUTLET BOX

- TWOB-ACC

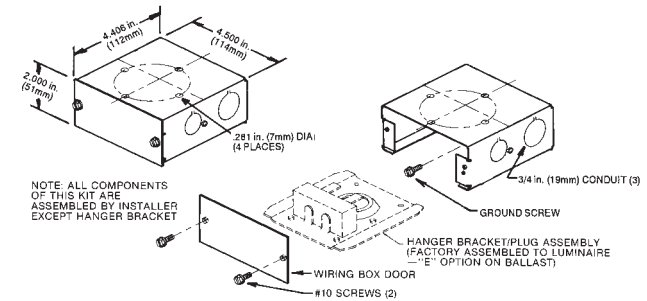
Surface mounted Thru-Wire outlet box



NOTE: ALL COMPONENTS OF THIS KIT ARE ASSEMBLED BY INSTALLER

- TWOBP-IND

Mountings for use with luminaires having Mounting Code 13 (provisions for slide-on primary disconnect)



NOTE: ALL COMPONENTS OF THIS KIT ARE ASSEMBLED BY INSTALLER EXCEPT HANGER BRACKET

SAFETY CHAIN

- SFC-O

For optical component, single unit, 14-in. (356mm)

- SFC3-B

For ballast component, 3 ft (0.9 meters)

- SFC5-B

For ballast component, 5 ft (1.5 meters)

- SFC7-B

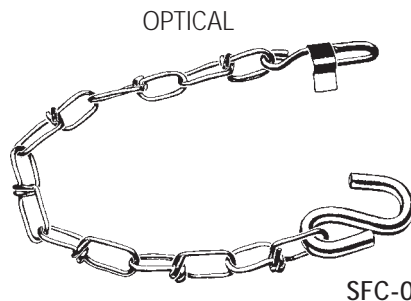
For ballast component, 7 ft (2.1 meters)

- SFC10-B

For ballast component, 10 ft (3 meters)

- SFC3-B310

For Jr. Versabeam, 3 ft (1 meter) (not shown)



SFC-O



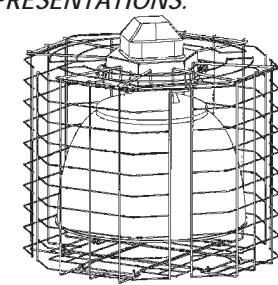
SFC*-B

ACCESSORIES

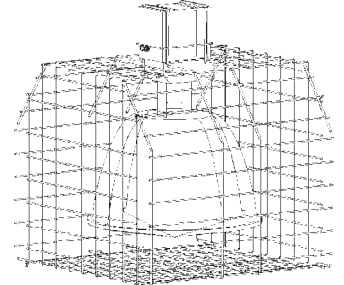
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

WIRE GUARD

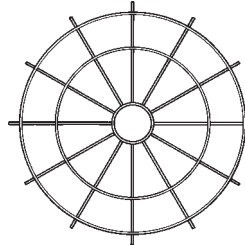
- **FWG-GEN5S**
Full wire guard for optical up to 22 inches in diameter OG5, OB5
 - **FWG-GEN5L**
Full wire guard for optical larger than 22" up 26 inches in diameter OB5, OB6, VB5, VS5, FP5
 - **FWG-CPB**
Full wire guard for Charger Prismatic (CPB)
 - **H2000-NE**
With relamp hole for Uniglow® 150 GH5, GW5, luminaires 16-inch (406mm) optical open or enclosed aluminum reflector. (NOTE: With GHB luminaires, 400 watt metal halide limited to reflector position 1.) Can be used with CHB if CHB-GC is used.
 - **WGLB-22**
Wire guard without relamp hole, for low bay 22-in. (559mm) opticals
 - **WGLB-30**
Wire guard without relamp hole, for low bay 30-in. (672mm) opticals
 - **WGNH-17E**
No relamp hole, for 17-in. (432mm) enclosed optical component
 - **WGNH-17V**
No relamp hole, for 17-in. (432mm) open optical component
 - **WGNH-22E**
No relamp hole, for 22-in. (559mm) enclosed optical component (Not for Prismatic opticals)
 - **WGNH-22V**
No relamp hole, for 22-in. (559mm) open optical component (Not for Prismatic opticals)
 - **WGNH-MMN**
For Minimount® luminaire
 - **WGRH-17V**
With relamp hole, for 17-in. (432mm) open optical component
 - **WGRH-22V**
With relamp hole, for 22-in. (559mm) open optical component (Not for Prismatic opticals)
 - **WGRH-OMG14**
With relamp hole, for 14-in. (356mm) open or enclosed optical component
 - **WGRH-OMG18**
With relamp hole, for 18-in. (457mm) open or enclosed optical component
 - **WGRH-OMB26**
With relamp hole, for 26-in. (660mm) open component
- NOTE: FLEXIBLE Luminaire Mounting recommended



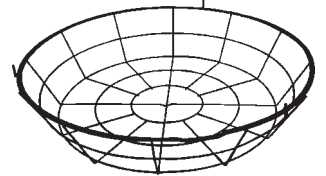
FWG-GEN5S / FWG-GEN5L



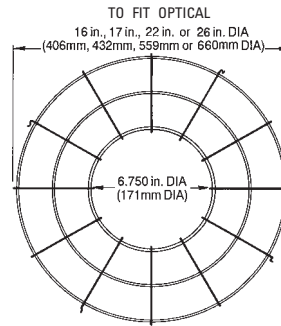
FWG-CPB



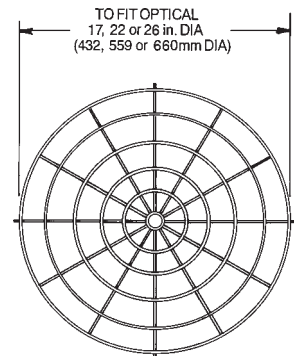
WGNH-MMN



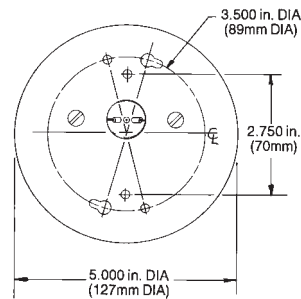
WGLB-22/30



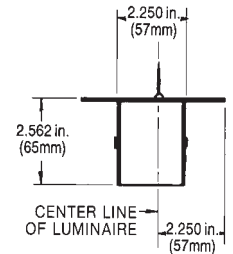
WGRH - With relamp hole



WGNH - Without relamp hole

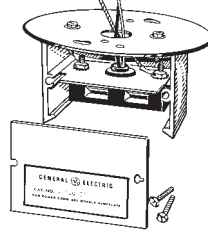


MPM-C

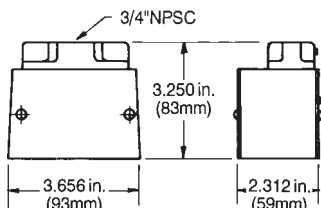
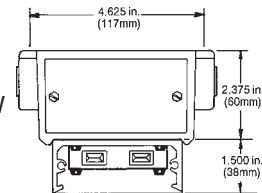


MULTI-PURPOSE MOUNTINGS

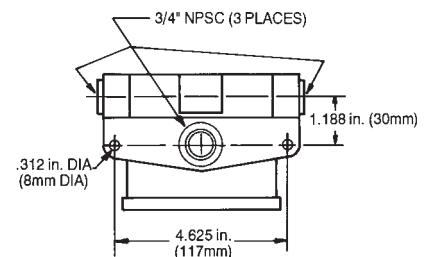
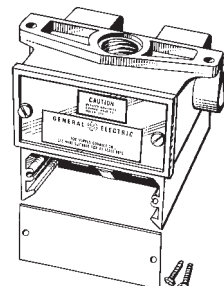
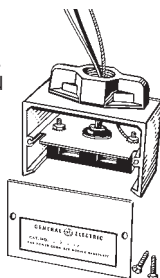
- **MPM-C**
Ceiling (or surface)
- **MPM-3PR**
3/4-in. Pendant, (Rigid) Mounting—3/4-in. NPSC with wiring compartment
- **MPM-3PRW**
3/4-in. Pendant, (Rigid) Mounting—3/4-in. NPSC with wiring compartment. Enclosed luminaires suitable for wet locations application when used with this hanging hardware.
- **MPM-3PRTFW**
3/4-in. Pendant, (Rigid) Mounting—3/4-in. NPSC with wiring compartment and Thru Feed. Suitable for Wet Locations.



MPM-3PRTFW



MPM-3PR
MPM-3PRW

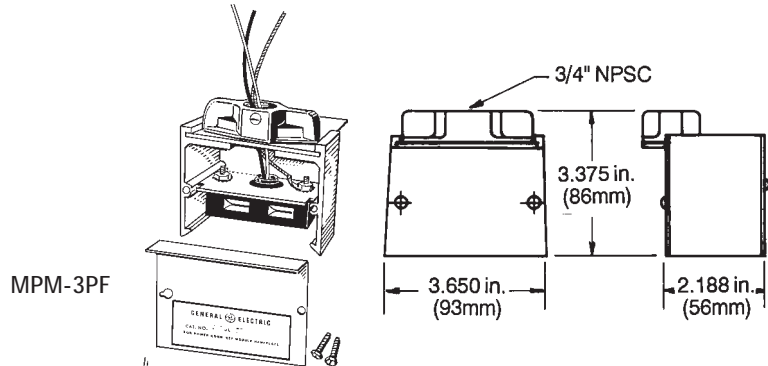


ACCESSORIES

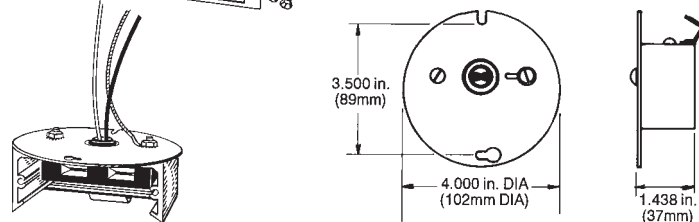
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

MULTI-PURPOSE MOUNTINGS

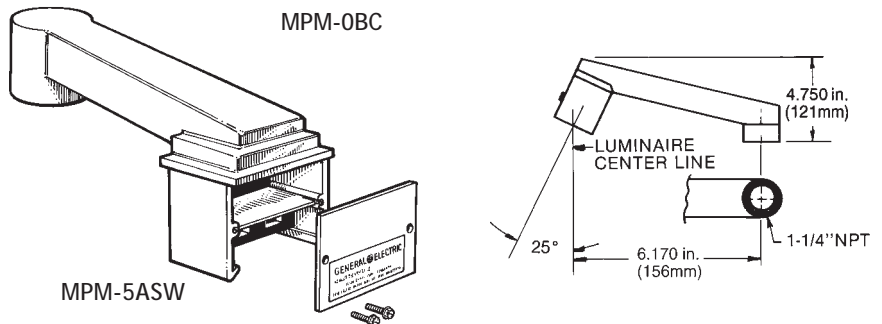
- **MPM-3PF**
3/4-in. Pendant, (Flexible) Mounting–
Pendant hanging hardware for 3/4-in.
NPSC with wiring compartment



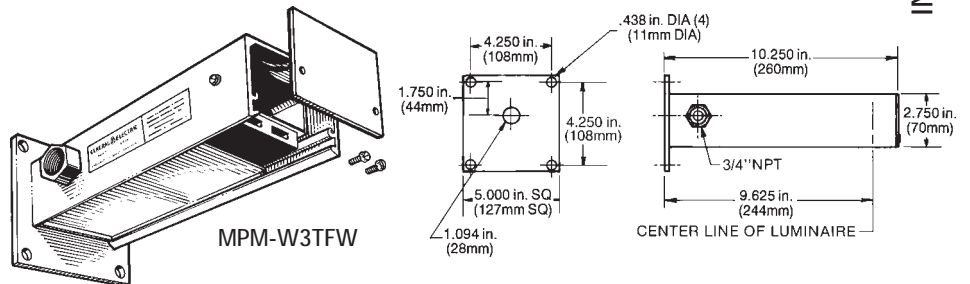
- **MPM-OBC**
Outlet Box Cover–for 4-in. (102mm)
octagonal junction box



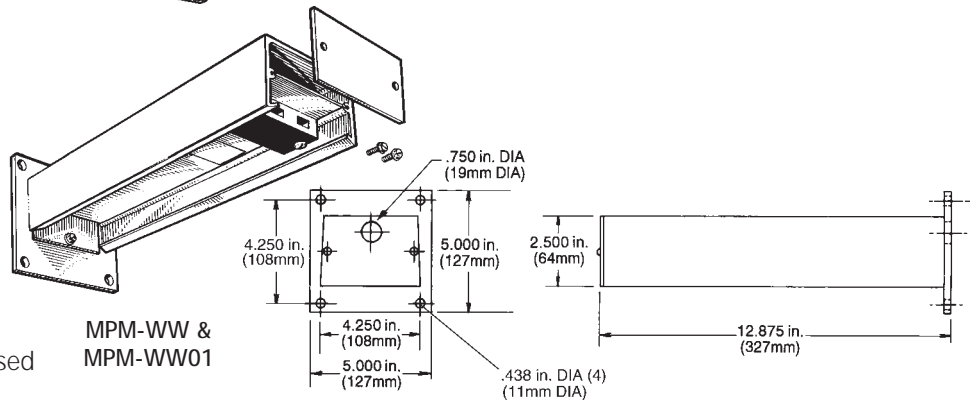
- **MPM-5ASW**
Angled Stanchion Mount–enclosed
luminaire suitable for wet location
applications when used with this bracket.
Gray.



- **MPM-W3TFW**
Wall Bracket with Thru-Feed–enclosed
luminaire suitable for wet locations
when used with this bracket.



- **MPM-WW**
Wall Bracket–enclosed luminaire
suitable for wet locations when
used with this bracket.



- **MPM-WW01**
Wall Bracket–enclosed luminaire
suitable for wet locations when used
with this bracket. Dark Bronze

INDOOR LIGHTING ACCESSORIES

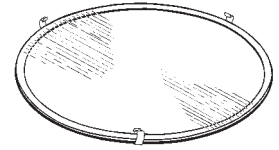


ACCESSORIES

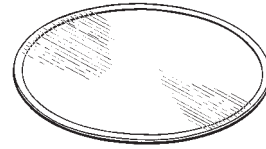
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

DOOR ASSEMBLIES

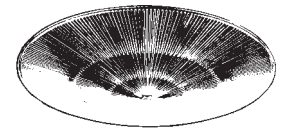
- **DGD4-GHBP**
Clear tempered door glass assembly for 14-in. (336mm) GHBP glass reflector.
- **E*L2-GHBP**
Clear Acrylic Lens for 22-in. (559mm) optical (40°C max. ambient on 400 watt fixtures)
- **E*L6-GHBP**
Clear Acrylic Lens for 16-in (406mm) optical (40°C max. ambient on 250 watt fixtures)
- **E*PL2-GHBP**
Clear Acrylic Prismatic Conical Lens for 22-in (559mm) optical (40°C max. ambient on 400 watt fixtures)
- **E*PL6-GHBP**
Clear Acrylic Prismatic Conical Lens for 16-in (406mm) optical (40°C max. ambient on 250 watt fixtures)
- **E*RL6-GHBP**
Clear prismatic drop lens for 16-inch optical (40°C maximum ambient on 250W fixtures)



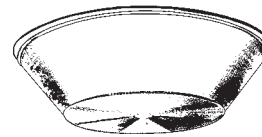
DGD4-GHBP



E*L2-GHBP
E*L6-GHBP



E*PL2-GHBP
E*PL6-GHBP

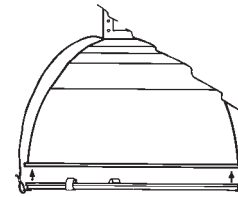


E*RL6-GHBP

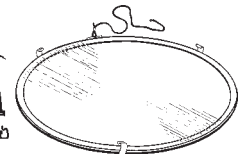
* Select lens material (Example EAL2-GHBP = Standard Acrylic)
A = Standard Acrylic
S = Advanced "ST" HID Acrylic for enhanced lamp containment and reduced yellowing.

DOOR GLASS (Clear Tempered Glass Lens)

- **DGA6-GHBB**
(See page I-38 for GHBB Door Glass Limitations)
(See page I-40 for GHBW Door Glass Limitations)

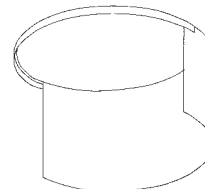


DGA6-GHBB



EXTERNAL LIGHT SHIELD

- **ELS-GGD**
For use with Garage•Gard luminaire



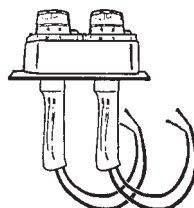
ELS-GGD

FUSE KITS

- **FK1-IND**
Single fuse holder
- **FK2-IND**
Double fuse holders



FK1-IND



FK2-IND

ACCESSORIES

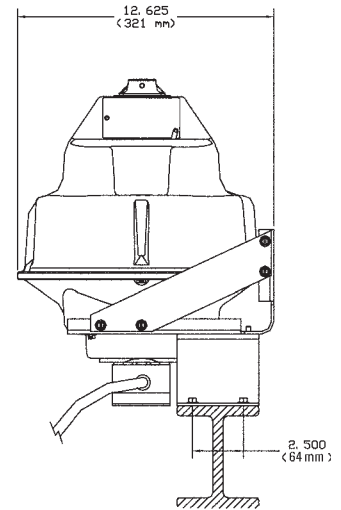
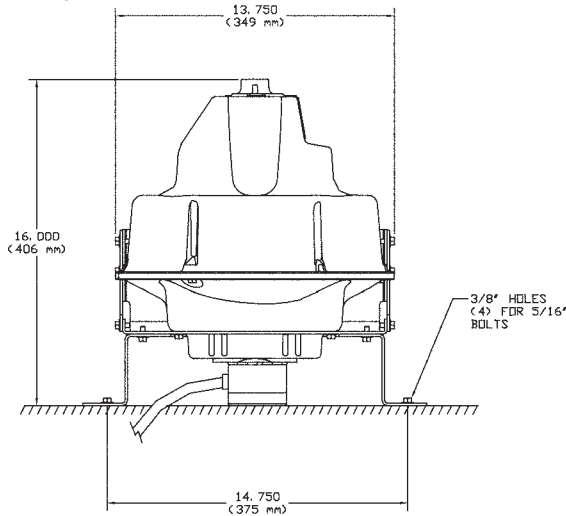
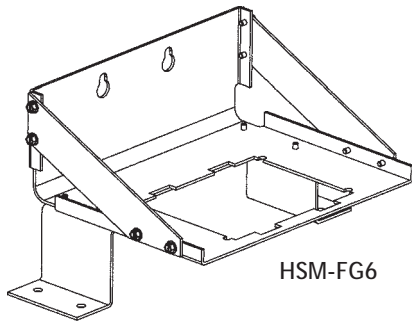
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

CRANE MOUNTED REMOTE BALLAST

HORIZONTAL SURFACE MOUNTING BRACKET

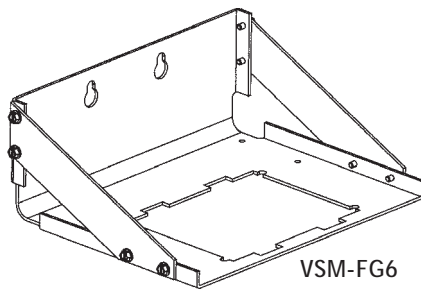
- HSM-FG6
For mounting FG6 Filterglow® ballast housing

NOTE: For indoor use only. Do not use with encapsulated ballasts or ballasts heavier than 40 lbs.

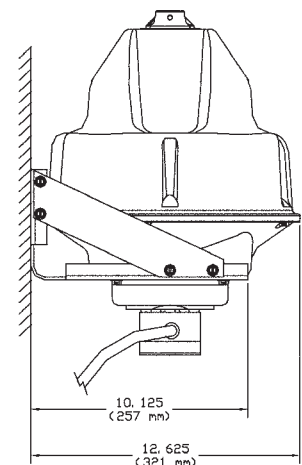
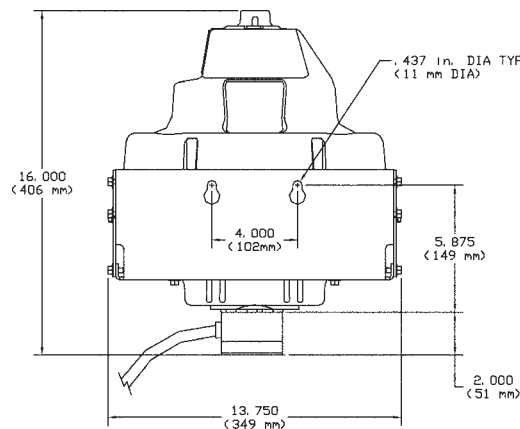


VERTICAL SURFACE MOUNTING BRACKET

- VSM-FG6
For mounting FG6 Filterglow® ballast housing



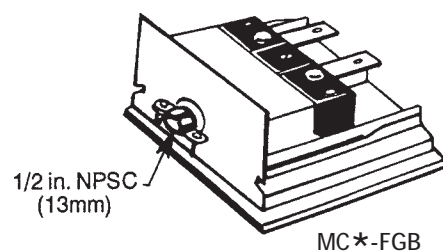
REMOTE BALLAST-MOUNTING



MALE CONNECTOR

Can be obtained as separate accessory or as part of Single Remote Power Connector. Mates with receptacle on bottom of ballast housing.
NOTE: HPS lamps require an ignitor within ten feet of lamps.

- MCS-FGB
For Filterglow®/Duraglow® luminaire ballast, single circuit
- MCD-FGB
For Filterglow®/Duraglow® luminaire ballast, dual circuit (for Automatically Switched Quartz)



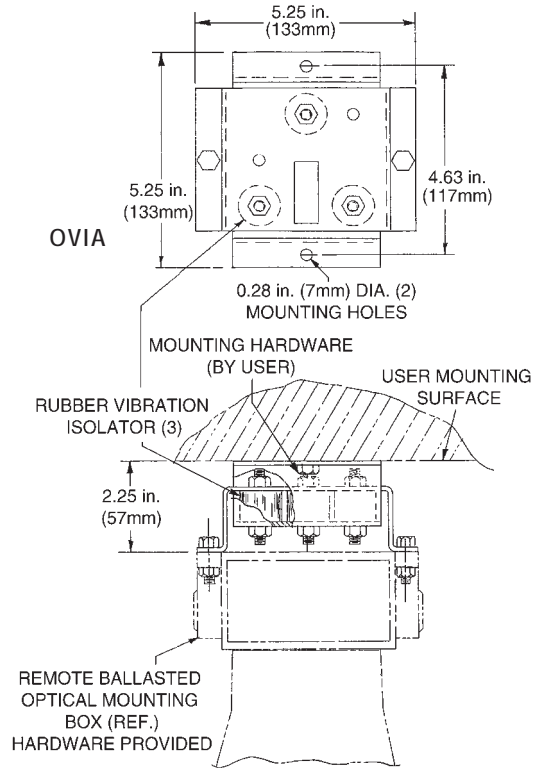
INDOOR LIGHTING ACCESSORIES

ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

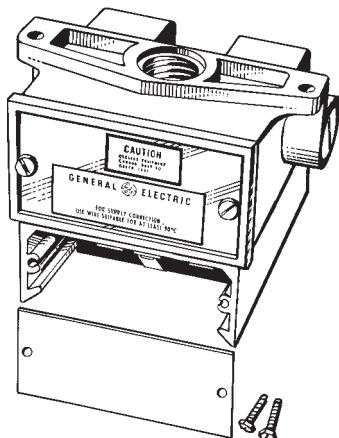
OPTICAL VIBRATION ISOLATION ASSEMBLY

- **OVIA**
Use with Remote Ballasted Optical Mounting Box or Single Remote Power Connector.
(Recommended for use with RBOMB-FDG or SRPCX-FDG only.)

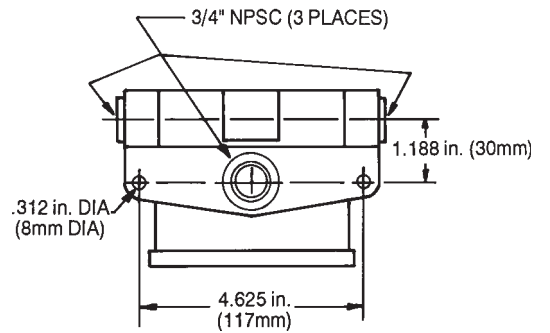
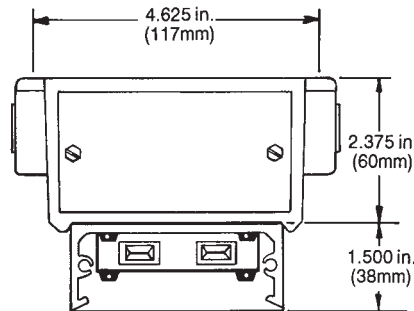


PRIMARY ELECTRICAL DISCONNECT BOX

- **PEDBGR-FDG**
Mounting for use with luminaires having Mounting Code 14 or "N" option (Provisions for slide-on Primary Disconnect)





PEDBGR-FDG

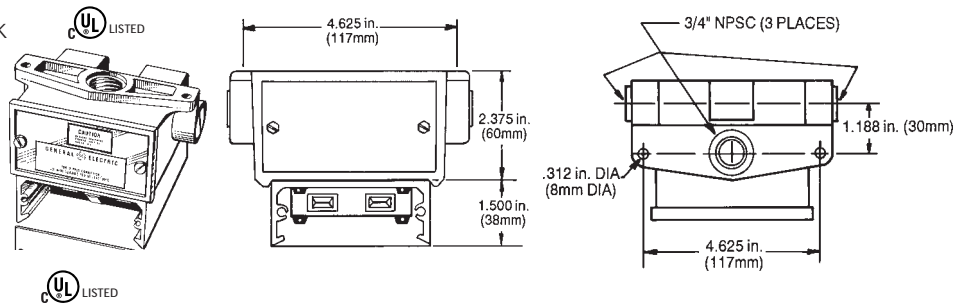


ACCESSORIES

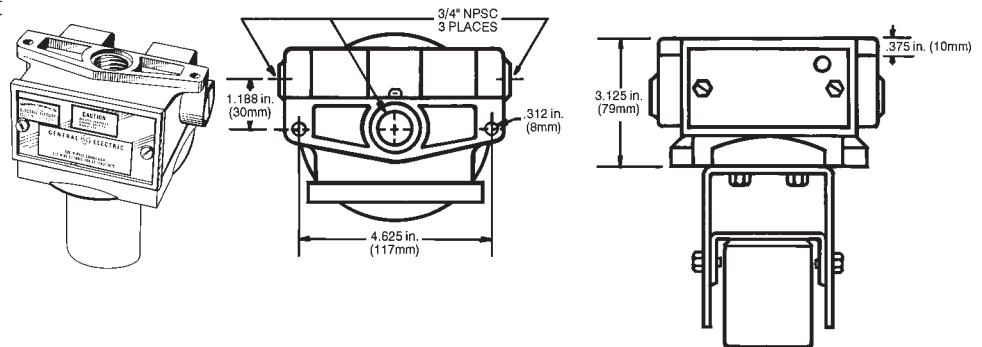
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

REMOTE BALLASTED OPTICAL MOUNTING BOX

- **RBOMB-FDG**  for load make/break
For mounting sliding disconnect opticals — reference page I-3 (can be obtained as separate accessory or as part of Single Remote Power Connector)
- **RBOMB-FDGO**
Same as **RBOMB-FDG** except for quartz socket  for load make/break

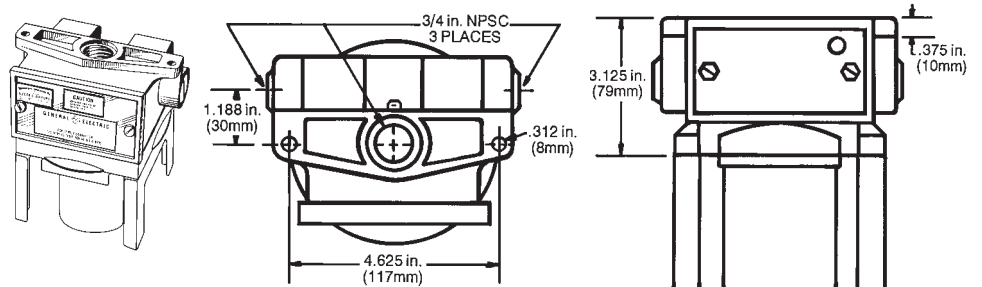


- **RBOMBA-UGUM**
For mounting Direct Mount Opticals — reference page I-3. Set in Socket Position "A". No connecting cable included.
- **RBOMBA-UGUMQ**
Same as **RBOMBA-UGUM** except with quartz socket
- **RBOMB-F-UGUM**
Set in Socket Position "F".
No connecting cable included
- **RBOMB-F-UGUMQ**
Same as **RBOMB-F-UGUM** except with quartz socket



NOTE: For field adjustment of socket position for a specific lamp type and wattage, refer to product's Ballast and Photometric Selection Table.

- **RBOMB-GHBB**
For mounting Bracket Mount Opticals — reference page I-3.
No connecting cable included.
- **RBOMB-GHBBQ**
Same as **RBOMB-GHBB** except with quartz socket



INDOOR LIGHTING ACCESSORIES



ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

SINGLE REMOTE POWER CONNECTOR

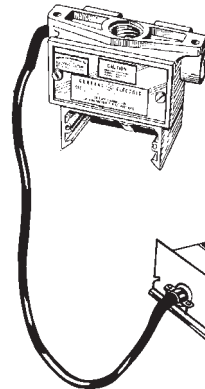
Provides electrical connections between ballast and optical when they are mounted separately.

NOTE: For dual plug Connector for use with automatically switched quartz, change "S" to "D"

NOTE: Connectors are available which are suitable for wet locations. Add "W" suffix to end of accessory ordering numbers. (FDG only)



- **SRPC3-FDG** 3 ft cable (0.9 meters)
- **SRPC5-FDG** 5 ft cable (1.5 meters)
- **SRPC7-FDG** 7 ft cable (2.1 meters)
- **SRPC10-FDG** 10 ft cable (3 meters)



Mates with Filterglow®, Duraglow®, Versabeam™ (VS5), Lowmount® II and Omniglow™ luminaire opticals.

Mates with receptacle on bottom of FG5 or FG6 ballast housing.

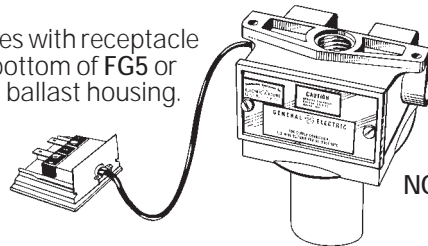
INDOOR LIGHTING ACCESSORIES

I

- **SRPC3A-UG** 3 ft (0.9 meters) cable, A socket position
- **SRPC5A-UG** 5 ft (1.5 meters) cable, A socket position
- **SRPC7A-UG** 7 ft (2.1 meters) cable, A socket position
- **SRPC10A-UG** 10 ft (3 meters) cable, A socket position
- **SRPC3F-UG** 3 ft (0.9 meters) cable, F socket position
- **SRPC5F-UG** 5 ft (1.5 meters) cable, F socket position
- **SRPC7F-UG** 7 ft (2.1 meters) cable, F socket position
- **SRPC10F-UG** 10 ft (3 meters) cable, F socket position

Mates with Versabeam™ (VB5), Unimount® 400, Unimount 150, Uniglow® 400/1000, Uniglow 150 and GLB™ luminaire opticals.

Mates with receptacle on bottom of FG5 or FG6 ballast housing.

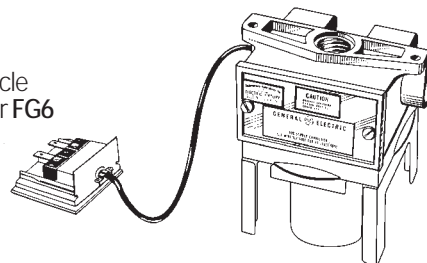


NOTE: For field adjustment of socket position for a specific lamp type and wattage, refer to product's Ballast and Photometric Selection Table.

- **SRPC3-GHBB** 3 ft (0.9 meters) cable
- **SRPC5-GHBB** 5 ft (1.5 meters) cable
- **SRPC7-GHBB** 7 ft (2.1 meters) cable
- **SRPC10-GHBB** 10 ft (3 meters) cable

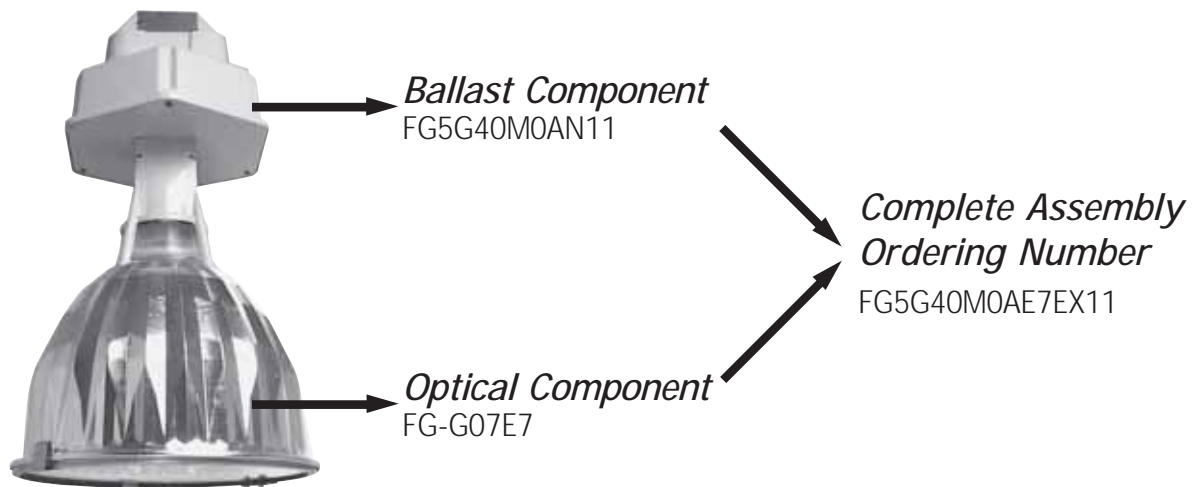
Mates with GHB® (GH4, GP4, GW4) luminaire optical.

Mates with receptacle on bottom of FG5 or FG6 ballast housing.



COMPONENT ORDERING LOGIC

COMPONENTS ARE OFTEN SHIPPED SEPARATELY. SEE THE FOLLOWING EXAMPLES TO DETERMINE WHICH COMPONENTS MAKE EACH COMPLETE PART NUMBER.
EXAMPLE: BALLAST + OPTICAL = COMPLETE UNIT NUMBER



As shown on the following pages, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

COMPONENT ORDERING LOGIC — NUVATION

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

FILTERGLOW® 400 LUMINAIRE — NUVATION HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER										
F	G	E	E7	EX	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS X	

BALLAST COMPONENT LOGIC									
F	G	E	N	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	

Limited to QWS

OPTICAL COMPONENT LOGIC				
FG-	G	11	E7	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS

Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.

Limited to D, Q, T

INTERCHANGEABILITY OF STANDARD OPTICALS—FILTERGLOW LUMINAIRE

The only variation between standard optical assemblies of the same size (17- or 22-inch [432 or 559mm]) is socket setting. If the SC desired is not shown under Ordering information, refer to Photometric Data table. Find the desired SC, socket setting, reflector size and select proper optical assembly from Photometric Data table. The combination of proper ballast assembly and this optical will give desired photometrics. Order the ballast and optical components both.

If optical assembly selected is not a stock item, socket position on standard stockable optical assembly can be easily changed in the field to desired position for small lots.

DURAGLOW® 400 LUMINAIRE — NUVATION HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER										
D	G	E	V7	EX	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS X	

BALLAST COMPONENT LOGIC									
F	G	E	N	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	

Limited to QS

OPTICAL COMPONENT LOGIC				
DG-	G	11	V7	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS

Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.

Limited to Q, S, T

INTERCHANGEABILITY OF STANDARD OPTICALS—DURAGLOW LUMINAIRE

The only variation between standard optical assemblies of the same size (17- or 22-inch [432 or 559mm]) is socket setting. If the SC desired is not shown under Ordering information, refer to Photometric Data table. Find the desired SC, socket setting, reflector size and select proper optical assembly from Photometric Data table. The combination of proper ballast assembly and this optical will give desired photometrics. Order the ballast and optical components both.

If optical assembly selected is not a stock item, socket position on standard stockable optical assembly can be easily changed in the field to desired position for small lots.

VERSABEAM DISCONNECT™ 400 LUMINAIRE — NUVATION HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER										
V	E	E	EA	VA	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS X	

BALLAST COMPONENT LOGIC									
F	G	E	N	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	

Limited to QWS

OPTICAL COMPONENT LOGIC			
VBD-	A	EA	Q
PRODUCT ID. XX	SOCKET POSITION X	OPTICAL XX	OPTIONS X

Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.

Limited to D, Q, T

VERSABEAM™ LUMINAIRE — NUVATION HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER										
V	E	E	EA	AA	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS X	

BALLAST COMPONENT LOGIC									
U	G	E	A	11	Q	W	40	N	G
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	

Limited to QS

OPTICAL COMPONENT LOGIC	
VBF-	EA
PRODUCT ID. XXX	LENS TYPE XX
VBF—VERSABEAM OPTICAL FOR GEN5 DIRECT MTG	EA—Enclosed Acrylic

A = 400 Watt MH & 350 Watt PMH (ED37)
G = 200 to 400 watt HPS
V = 175, 250 Watt MH & 320 Watt PMH (ED28)

Note: Previous VB-EA optical used with previous small industrial housing (Generation 4) is not adaptable to Gen 5 ballast. Order VBF-EA when optical is used with Generation 5 ballast. Order Generation 5 Versabeam reflector assembly 35-965240-09 to reuse existing lens/clampband assembly.

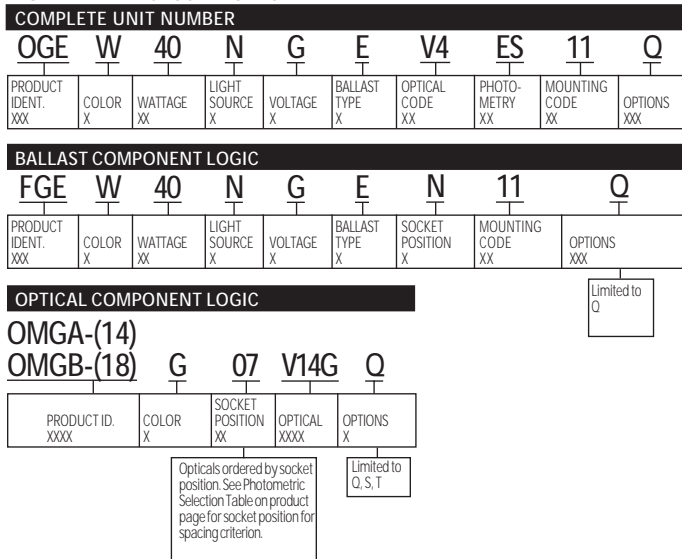
Note: VBM-EA 40°C max ambient required for use with Mag Rag Ballast.

COMPONENT ORDERING LOGIC – NUVATION

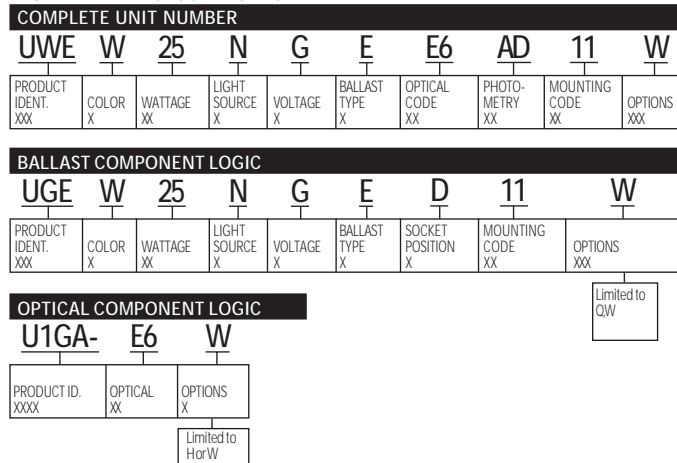
As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

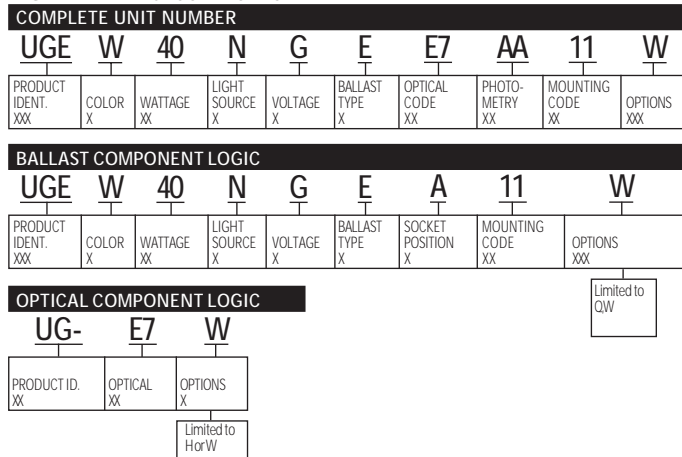
OMNIGLOW™ 400 LUMINAIRE – NUVATION HIGH BAY ENCLOSED OR OPEN



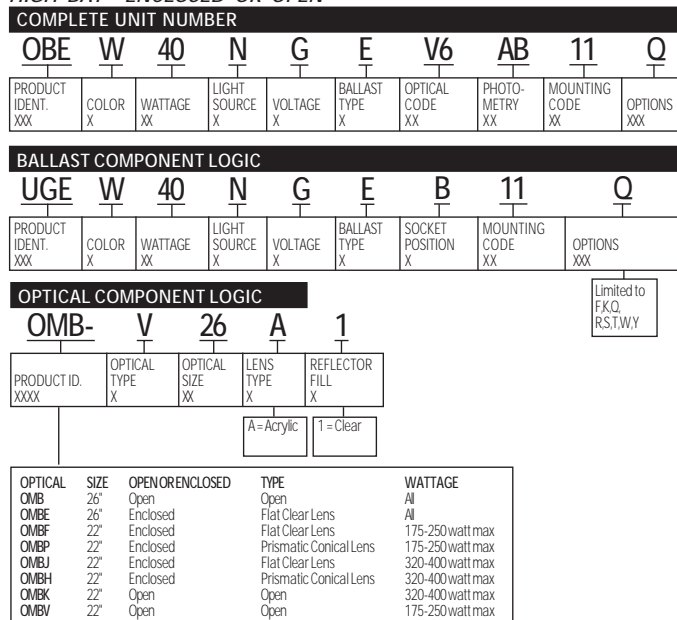
UNIGLOW® 150 LUMINAIRE – NUVATION HIGH BAY ENCLOSED OR OPEN



UNIGLOW® 400 LUMINAIRE – NUVATION HIGH BAY ENCLOSED OR OPEN



OMNIBEAM™ 400 LUMINAIRE – NUVATION HIGH BAY ENCLOSED OR OPEN



INDOOR LIGHTING COMPONENT ORDERING LOGIC

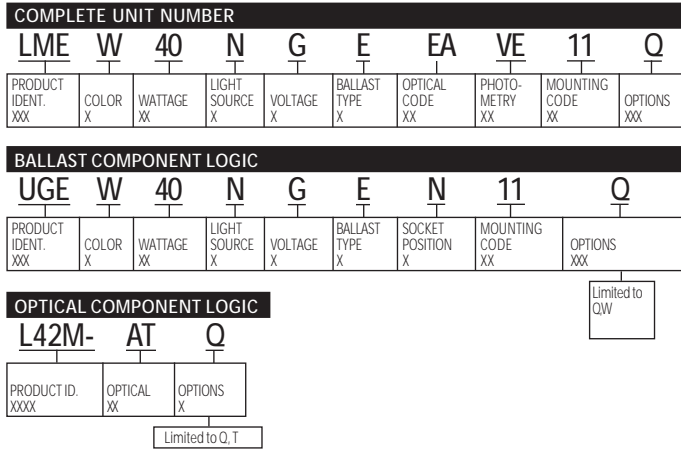


COMPONENT ORDERING LOGIC — NUVATION

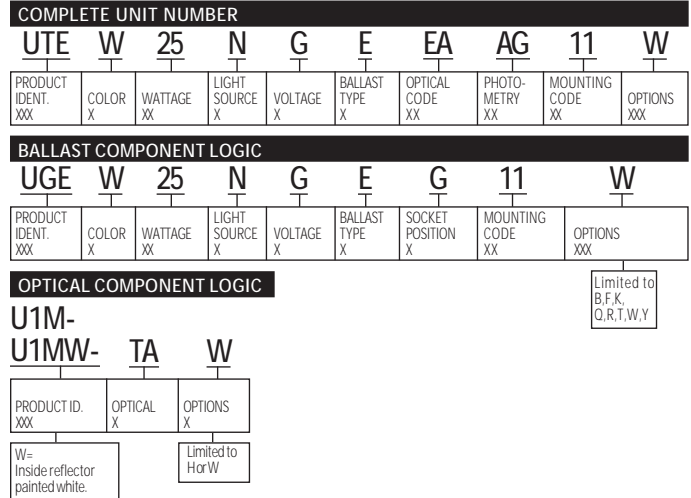
As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

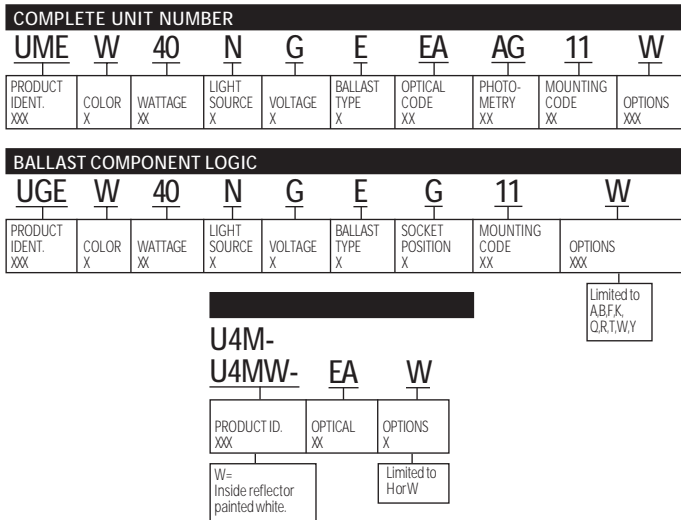
LOWMOUNT® II LUMINAIRE LOW BAY ENCLOSED



UNIMOUNT® 150 LUMINAIRE — NUVATION LOW BAY ENCLOSED



UNIMOUNT® 400 LUMINAIRE LOW BAY ENCLOSED



INDOOR LIGHTING COMPONENT ORDERING LOGIC

1

COMPONENT ORDERING LOGIC – GEN 5 & GEN 6

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

FILTERGLOW® 1000 LUMINAIRE HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER									
FG6	G	01	M	0	A	E2	EX	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X

BALLAST COMPONENT LOGIC									
FG6	G	01	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	Limited to ABDFK, QRW

OPTICAL COMPONENT LOGIC				
FG-	G	11	E2	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS Limited to D, Q, T
Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.				

INTERCHANGEABILITY OF STANDARD OPTICALS–FILTERGLOW LUMINAIRE

The only variation between standard optical assemblies of the same size (17- or 22-inch [432 or 559mm]) is socket setting. If the SC desired is not shown under Ordering Information, refer to Photometric Data table. Find the desired SC, socket setting, reflector size and select proper optical assembly from Photometric Data table. The combination of proper ballast assembly and this optical will give desired photometrics. Order the ballast and optical components both.

If optical assembly selected is not a stock item, socket position on standard stockable optical assembly can be easily changed in the field to desired position for small lots.

DURAGLOW® 1000 LUMINAIRE HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER									
DG6	G	01	M	0	A	E2	EX	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X

BALLAST COMPONENT LOGIC									
DG6	G	01	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	Limited to ABFK, QRS

OPTICAL COMPONENT LOGIC				
DG-	G	11	V2	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS Limited to Q, S, T
Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.				

INTERCHANGEABILITY OF STANDARD OPTICALS–DURAGLOW LUMINAIRE

The only variation between standard optical assemblies of the same size (17- or 22-inch [432 or 559mm]) is socket setting. If the SC desired is not shown under Ordering Information, refer to Photometric Data table. Find the desired SC, socket setting, reflector size and select proper optical assembly from Photometric Data table. The combination of proper ballast assembly and this optical will give desired photometrics. Order the ballast and optical components both.

If optical assembly selected is not a stock item, socket position on standard stockable optical assembly can be easily changed in the field to desired position for small lots.

FILTERGLOW® 400 LUMINAIRE HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER									
FG5	G	40	M	0	A	E7	EX	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X

BALLAST COMPONENT LOGIC									
FG5	G	40	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	Limited to ABDFK, QRW, Y

OPTICAL COMPONENT LOGIC				
FG-	G	07	E7	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS Limited to D, Q, T
Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.				

DURAGLOW® 400 LUMINAIRE HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER									
DG5	G	40	M	0	A	V7	EX	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X

BALLAST COMPONENT LOGIC									
FG5	G	40	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X	Limited to ABFK, QRY

OPTICAL COMPONENT LOGIC				
DG-	G	07	V7	Q
PRODUCT ID. XX	COLOR X	SOCKET POSITION XX	OPTICAL XX	OPTIONS Limited to Q, S, T
Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.				

COMPONENT ORDERING LOGIC — GEN 5 & GEN 6

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

OMNIGLOW™ 1000 LUMINAIRE HIGH BAY ENCLOSED OR

COMPLETE UNIT NUMBER

OG6	G	01	M	0	A	V8	EX	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS X

BALLAST COMPONENT LOGIC

FG6	G	01	M	0	A	N	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X

OPTICAL COMPONENT LOGIC

OMGA-(14)	G	11	E18G	Q
PRODUCT ID. XXXX	COLOR X	SOCKET POSITION XX	OPTICAL XXXX	OPTIONS X

Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.

Limited to Q, S, T

VERSABEAMDISCONNECT™ 400 LUMINAIRE

COMPLETE UNIT NUMBER

VS5	G	40	M	0	A	EA	VA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS XXX

BALLAST COMPONENT LOGIC

FG5	G	40	M	0	A	N	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX

OPTICAL COMPONENT LOGIC

VBD-	A	EA	Q
PRODUCT ID. XXX	SOCKET POSITION X	OPTICAL XX	OPTIONS X

A = 400 Watt MH & 350 Watt PMH (ED37)
 G = 200 to 400 watt HPS
 V = 175, 250 Watt MH & 320 Watt PMH (ED28)

Limited to D, Q, T

INDOOR LIGHTING COMPONENT ORDERING LOGIC

I

OMNIGLOW™ 400 LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

OG5	G	40	M	0	A	V4	ES	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS XXX

BALLAST COMPONENT LOGIC

FG5	G	40	M	0	A	N	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX

OPTICAL COMPONENT LOGIC

OMGA-(14)	G	07	V14G	Q
PRODUCT ID. XXXX	COLOR X	SOCKET POSITION XX	OPTICAL XXXX	OPTIONS X

Opticals ordered by socket position. See Photometric Selection Table on product page for socket position for spacing criterion.

Limited to Q, S, T

VERSABEAM™ LUMINAIRE HIGH BAY OR LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

VB5	G	40	M	0	A	EA	AA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTOMETRY XX	MOUNTING CODE XX	OPTIONS XXX

BALLAST COMPONENT LOGIC

UG5	G	40	M	0	A	A	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX

OPTICAL COMPONENT LOGIC

VBF-	EA
PRODUCT ID. XXX	LENS TYPE XX

VBF=VERSABEAM OPTICAL FOR GEN5 DIRECT MTG

EA= Enclosed Acrylic

A = 400 Watt MH & 350 Watt PMH (ED37)
 G = 200 to 400 watt HPS
 V = 175, 250 Watt MH & 320 Watt PMH (ED28)

Limited to B, F, K, Q, R, T, W, Y

Note: Previous VB-EA optical used with previous small industrial housing (Generation 4) is not adaptable to Gen 5 ballast. Order VBF-EA when optical is used with Generation 5 ballast. Order Generation 5, Versabeam reflector assembly 35-965240-09 to reuse existing lens/clampband assembly.

Note: VBM-EA 40°C max ambient required for use with Mag Rag Ballast.

COMPONENT ORDERING LOGIC — GEN 5 & GEN 6

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

OMNIBEAM™ 1000 LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER

OB6 W 01 M 0 A V6 AC 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
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BALLAST COMPONENT LOGIC

UG6 W 01 M 0 A C 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
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OPTICAL COMPONENT LOGIC

OMB- V 26 A 1

PRODUCT ID. XXX	OPTICAL TYPE X	OPTICAL SIZE XX	LENS TYPE X	REFLECTOR FILL X
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OMB = Omnibeam 26" Optical Open
 OMBE = Omnibeam 26" Optical Enclosed

A = Acrylic 1 = Clear

FOODPRO™ LUMINAIRE HIGH BAY ENCLOSED

COMPLETE UNIT NUMBER

FP5 W 40 M 0 A D6 AA 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
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BALLAST COMPONENT LOGIC

FP5 W 40 M 0 A A 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX
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OPTICAL COMPONENT LOGIC

FPR- E 26 B1

PRODUCT ID. XXX	OPTICAL TYPE X	OPTICAL SIZE XX	OPTICAL MATERIAL X
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OMNIBEAM™ 400 LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

OB5 W 40 M 0 A V6 AB 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
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BALLAST COMPONENT LOGIC

UG5 W 40 M 0 A B 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX
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OPTICAL COMPONENT LOGIC

OMB- V 26 A 1

PRODUCT ID. XXXX	OPTICAL TYPE X	OPTICAL SIZE XX	LENS TYPE X	REFLECTOR FILL X
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A = Acrylic 1 = Clear

OPTICAL	SIZE	OPEN OR ENCLOSED	TYPE	WATTAGE
OMB	26"	Open	Open	All
OMBE	26"	Enclosed	Flat Clear Lens	All
OMBF	22"	Enclosed	Flat Clear Lens	175-250 watt max
OMBP	22"	Enclosed	Prismatic Conical Lens	175-250 watt max
OMBJ	22"	Enclosed	Flat Clear Lens	320-400 watt max
OMBH	22"	Enclosed	Prismatic Conical Lens	320-400 watt max
OMBK	22"	Open	Open	320-400 watt max
OMBV	22"	Open	Open	175-250 watt max

UNIGLOW® 1000 LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

UG6 G 01 M 0 A V2 AA 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
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BALLAST COMPONENT LOGIC

UG6 G 01 M 0 A A 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
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OPTICAL COMPONENT LOGIC

UG- V2 W

PRODUCT ID. XXXX	OPTICAL X	OPTIONS X
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INDOOR LIGHTING COMPONENT ORDERING LOGIC

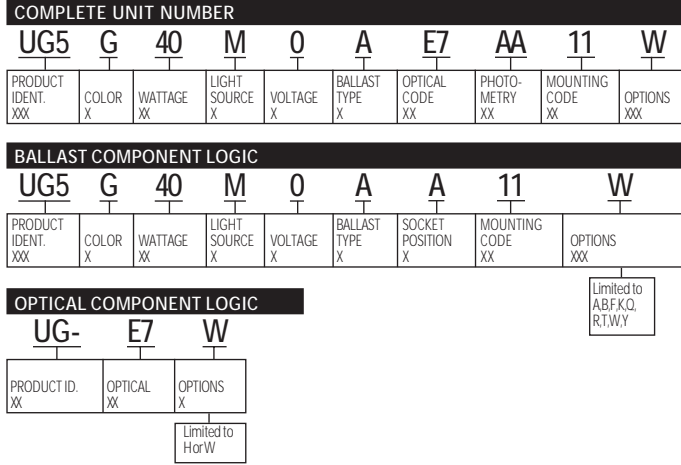


COMPONENT ORDERING LOGIC — GEN 5 & GEN 6

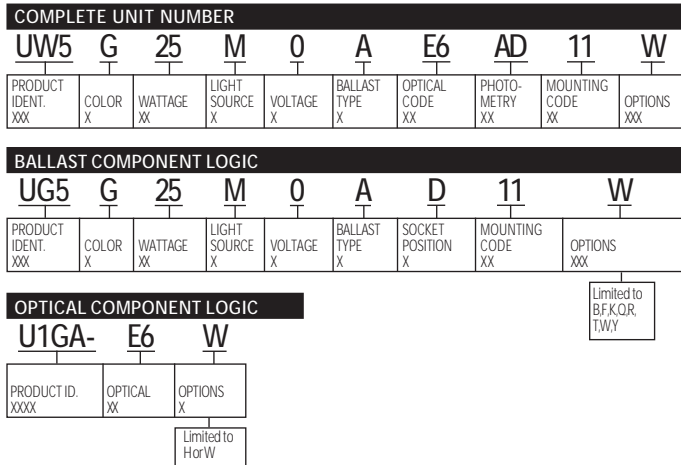
As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

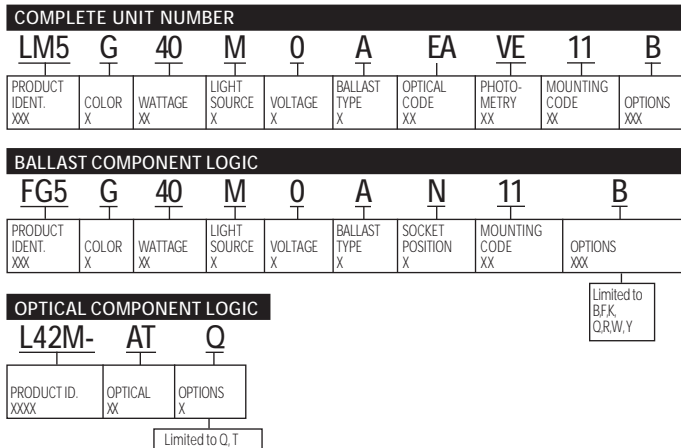
UNIGLOW® 400 LUMINAIRE HIGH BAY ENCLOSED OR OPEN



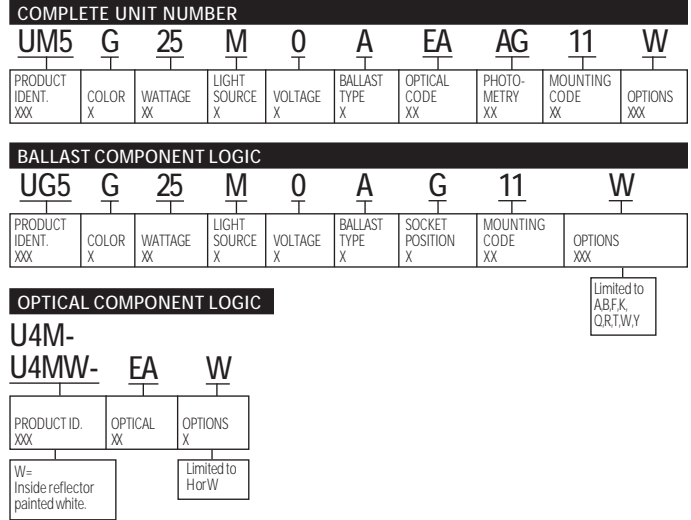
UNIGLOW® 150 LUMINAIRE HIGH BAY ENCLOSED OR OPEN



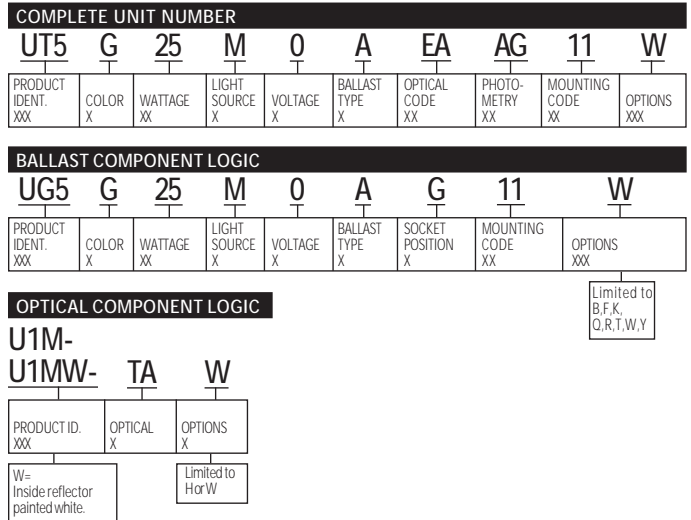
LOWMOUNT® II LUMINAIRE LOW BAY ENCLOSED



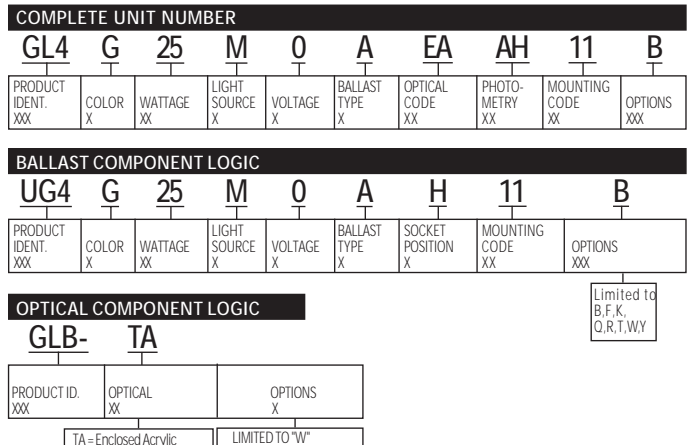
UNIMOUNT® 400 LUMINAIRE LOW BAY ENCLOSED



UNIMOUNT® 150 LUMINAIRE LOW BAY ENCLOSED



GLB™ LUMINAIRE LOW BAY ENCLOSED



INDOOR LIGHTING COMPONENT ORDERING LOGIC

I

COMPONENT ORDERING LOGIC – GENERAL DUTY BALLAST

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

MIDBAY® LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER									
MB4	W	40	M	0	A	EA	AA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
UG4	W	40	M	0	A	A	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.Y
OPTICAL COMPONENT LOGIC									
MB5-	EA								
PRODUCT ID. XX	OPTICAL XX								

GHB® WAREHOUSE LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER									
GW4	W	40	M	0	A	V6	NA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
GH4	W	40	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.S.Y
OPTICAL COMPONENT LOGIC									
GHBW-	V6								
PRODUCT ID. XXXX	OPTICAL XX								

UNIGLOW® 400 LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER									
UG4	W	40	M	0	A	E7	AA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
UG5	G	40	M	0	A	A	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.S.Y
OPTICAL COMPONENT LOGIC									
UG-	E7								
PRODUCT ID. XX	OPTICAL XX								

GHB® PRISMATIC LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER									
GP4	W	40	M	0	A	V2	NA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
GH4	W	40	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.S.Y
OPTICAL COMPONENT LOGIC									
GHP-	V22A								
PRODUCT ID. XXXX	OPTICAL XXXX								

GHB® LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER									
GH4	W	40	M	0	A	V6	NA	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
GH4	W	40	M	0	A	N	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.S.Y
OPTICAL COMPONENT LOGIC									
GHBB-	V6								
PRODUCT ID. XX	OPTICAL XX								

GLB™ LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER									
GL4	W	25	M	0	A	EA	AH	11	B
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
BALLAST COMPONENT LOGIC									
UG4	W	25	M	0	A	H	11	B	
PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX	Limited to B.F.S.Y
OPTICAL COMPONENT LOGIC									
GLB-	TA								
PRODUCT ID. XXX	OPTICAL XX								
TA=Enclosed Acrylic									

INDOOR LIGHTING COMPONENT ORDERING LOGIC



COMPONENT ORDERING LOGIC — GENERAL DUTY BALLAST

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

OMNIBEAM™ 400 LUMINAIRE HIGH BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

OB4 W 40 M 0 A V6 AB 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS XXX
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BALLAST COMPONENT LOGIC

UG4 W 40 M 0 A B 11 B

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS XXX
--------------------	---------	------------	----------------	-----------	----------------	-------------------	------------------	-------------

Limited to B.F.S.Y

OPTICAL COMPONENT LOGIC

OMB- V 26 A 1

PRODUCT ID. XXXX	OPTICAL TYPE X	OPTICAL SIZE XX	LENS TYPE X	REFLECTOR FILL X
------------------	----------------	-----------------	-------------	------------------

A = Acrylic
1 = Clear

OPTICAL	SIZE	OPEN OR ENCLOSED	TYPE	WATTAGE
OMB	26"	Open	Open	All
OMBE	26"	Enclosed	Flat Clear Lens	All
OMBF	22"	Enclosed	Flat Clear Lens	250 watt max
OMBP	22"	Enclosed	Prismatic Conical Lens	250 watt max
OMBJ	22"	Enclosed	Flat Clear Lens	320-400 watt max
OMBH	22"	Enclosed	Prismatic Conical Lens	320-400 watt max
OMBK	22"	Open	Open	320-400 watt max
OMBV	22"	Open	Open	250 watt max

COMPONENT ORDERING LOGIC — CHARGER

CHH® CHARGER 1000 LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER

CHH W 01 M P A V2 AA 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-----------------	----------------	------------------	-----------

BALLAST COMPONENT LOGIC

CHH W 01 M P A A 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-------------------	------------------	-----------

Limited to F.Q.S

OPTICAL COMPONENT LOGIC

UG V2

PRODUCT ID. XXXX	OPTICAL XX
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UG = E2-Enclosed with door glass

CHB® CHARGER LUMINAIRE HIGH BAY OPEN

COMPLETE UNIT NUMBER

CHB W 40 M 0 A V6 NA 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-----------------	----------------	------------------	-----------

BALLAST COMPONENT LOGIC

CHB W 40 M 0 A N 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-------------------	------------------	-----------

Limited to F.Q.S.T.Y

OPTICAL COMPONENT LOGIC

EHBA- V6

PRODUCT ID. XXXX	OPTICAL XX
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INDOOR LIGHTING COMPONENT ORDERING LOGIC

1

COMPONENT ORDERING LOGIC – CHARGER

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

CLB™ CHARGER LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

CLB W 40 M 0 A EA NA 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-----------------	----------------	------------------	-----------

BALLAST COMPONENT LOGIC

CHB W 40 M 0 A N 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
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OPTICAL COMPONENT LOGIC

CLBA- EA Q

PRODUCT ID. XXX	OPTICAL X	OPTIONS X
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Limited to Q

CPB™ CHARGER LUMINAIRE PRISMATIC

COMPLETE UNIT NUMBER

CPB W 40 M 0 A V2 NA 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-----------------	----------------	------------------	-----------

BALLAST COMPONENT LOGIC

CHB W 40 M 0 A N 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
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OPTICAL COMPONENT LOGIC

CHBP- CV Q

PRODUCT ID. XXX	OPTICAL XX	OPTIONS X
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Limited to F, Q, S, Y

CPBA-V2A = V2A 22" open and ventilated prismatic acrylic reflector (bracket mounted)
 CHBP-CV = Direct mount prismatic acrylic reflector (Requires EAPL2-GHBP lens. Order separately.)

CPH® CHARGER 1000 LUMINAIRE PRISMATIC OPEN

COMPLETE UNIT NUMBER

CPH W 01 M P A V6 AA 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL CODE XX	PHOTO-METRY XX	MOUNTING CODE XX	OPTIONS X
--------------------	---------	------------	----------------	-----------	----------------	-----------------	----------------	------------------	-----------

BALLAST COMPONENT LOGIC

CHH W 01 M P A A 12 Q

PRODUCT IDENT. XXX	COLOR X	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	SOCKET POSITION X	MOUNTING CODE XX	OPTIONS X
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OPTICAL COMPONENT LOGIC

CPH V2GA

PRODUCT ID. XXXX	OPTICAL XX
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UG = E2-Enclosed with door glass

COMPONENT ORDERING LOGIC – OTHER/LOW BAY

LOWMOUNT® 400 LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

L4MU 40 S 0 M 5 19 AD D

PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	SPACING CRITERION XX	OPTICAL XX	OPTIONS XXX
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BALLAST COMPONENT LOGIC

L4MU
L4MD 40 S 0 M 5 D

PRODUCT ID. XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	OPTIONS XXX
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OPTICAL COMPONENT LOGIC

L4MU- AN
L4MD- AD D

PRODUCT ID. XXXX	OPTICAL XX	OPTIONS X
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Limited to D, W*
NOTE: *Required for L4MD only

LOWMOUNT® 150 LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

L1M 07 S 0 H 4 17 TA D

PRODUCT ID. XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	SPACING CRITERION XX	OPTICAL XX	OPTIONS XXX
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BALLAST COMPONENT LOGIC

L1M 07 S 0 H 4 17 D

PRODUCT ID. XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	SPACING CRITERION XX	OPTIONS XXX
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OPTICAL COMPONENT LOGIC

L1M- TA D

PRODUCT ID. XXX	OPTICAL XX	OPTIONS X
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Limited to B, D, E, F, J, N, P, Q, W

INDOOR LIGHTING COMPONENT ORDERING LOGIC



COMPONENT ORDERING LOGIC — OTHER/LOW BAY

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

CONSERVA® 400 LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

C4S
C4SW 40 S 0 A 4 EA 2 Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL REFRACTOR	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	X	XXX

BALLAST COMPONENT LOGIC

C4S
C4SW 40 S 0 A X Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTIONS
XXX	XX	X	X	X	X	XXX

OPTICAL COMPONENT LOGIC

C4S-
C4SW- EA

PRODUCT ID.	OPTICAL
XXXX	XX

Limited to B, F, Q, Y

MOUNTING COMPONENT LOGIC

See Mounting Receptacle Column on product page for ordering nomenclature. Example: 2=MPM-3PR.

VERSAGLOW® 150 AND 250 LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

V1G
V2G 15 S 0 H 4 TA 1 Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	X	XXX

BALLAST COMPONENT LOGIC

MPB 15 S 0 H X Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTIONS
XXX	XX	X	X	X	X	XXX

OPTICAL COMPONENT LOGIC

V1G- TA

PRODUCT ID.	OPTICAL
XXX	XX

Limited to B, F, Q

MOUNTING COMPONENT LOGIC

See Mounting Receptacle Table on product page for ordering nomenclature. Example: 1=MPM-C.

CONSERVA® 150 LUMINAIRE LOW BAY ENCLOSED

COMPLETE UNIT NUMBER

C1S
C1SW 15 S 0 H 5 TA 2 Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XX	X	XXX

BALLAST COMPONENT LOGIC

MPB
MPBW 15 S 0 H X Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTIONS
XXX	XX	X	X	X	X	XX

OPTICAL COMPONENT LOGIC

C1S-
C1SW- TA

PRODUCT ID.	OPTICAL
XXXX	XX

Limited to B, F, Q, Y

MOUNTING COMPONENT LOGIC

See Mounting Receptacle Column on product page for ordering nomenclature. Example: 2=MPM-3PR.

MINIMITE® LUMINAIRE LOW BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

MMI 07 S 0 H X E5A 2 Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL REFRACTOR	MOUNTING RECEPTACLE	OPTIONS
XXX	XX	X	X	X	X	XXX	X	XXX

BALLAST COMPONENT LOGIC

MPB 07 S 0 H X Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTIONS
XXX	XX	X	X	X	X	XXX

OPTICAL COMPONENT LOGIC

MMI-
MML- E5A

PRODUCT ID.	OPTICAL
XXX	XXX

Limited to B, F, Q, Y

MOUNTING COMPONENT LOGIC

See Mounting Receptacle Table on product page for ordering nomenclature. Example: 2=MPM-3PR.

MINI•GARD™ LUMINAIRE UL1572 SUITABLE FOR WET LOCATIONS

COMPLETE UNIT NUMBER

MGA 15 S 1 H 4 3P GG F

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	MOUNTING INCLUDES BALLAST COVER	OPTICAL	OPTIONS
XXX	XX	X	X	X	X	XX	XX(Q)	XXX

BALLAST COMPONENT LOGIC

MGA 15 S 1 H 4 Q

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTIONS
XXX	XX	X	X	X	X	XXX

MOUNTING COMPONENT LOGIC **OPTICAL COMPONENT LOGIC**

MG- 3P

PRODUCT ID.	MOUNTING
XX	XX

AE
AV
GE
GV

MGA-

PRODUCT ID.	OPTICAL
XXXXX	XX

SBI® INDUSTRIAL LUMINAIRE LOW BAY ENCLOSED OR OPEN

COMPLETE UNIT NUMBER

SBI 15 S 0 N LBR DB N

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL TYPE	COLOR	OPTIONS
XXX	XX	X	X	X	XXX	XX	X

BALLAST COMPONENT LOGIC

SBI 15 S 0 N DB

PRODUCT ID.	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	COLOR
XXX	XX	X	X	X	XX

OPTICAL COMPONENT LOGIC

SBI- LBR

PRODUCT ID.	OPTICAL
XXX	XXX

INDOOR LIGHTING COMPONENT ORDERING LOGIC

I

EXPLANATION OF OPTIONS

B = TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

Most luminaires can be provided with automatically switched quartz/instant-on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same reflector with the metal halide, mercury or HPS lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output.

Caution should be used when sizing branch circuits for luminaires with this option since the luminaires will draw additional current during the warm-up period while both lamps (quartz and HID) are in operation.

Wiring for the quartz lamp is internal to the ballast assembly and the 120 volts to operate the quartz lamp is supplied by the ballast. The 350, 400, 750 and 1000 watt luminaires have a socket for one 250 watt single-ended DC (Double Contact) bayonet base quartz lamp. The 320 watt and lower wattage luminaires have a socket for one 150 watt single-ended DC bayonet base quartz lamp. The lamp is not included.

Caution: Quartz lamps could unexpectedly shatter, resulting in the discharge of hot glass particles. A suitable lens is recommended.

D = SEVERE DUTY (Meets wet locations)

UL 1598 Listed **SUITABLE FOR WET LOCATIONS**. This construction modifies units for application in wet, dusty and corrosive environments using severe-duty construction techniques. The following measures are taken:

1. Gaskets are provided at all points where water entry is probable, including the ballast housing, mounting bushing, wiring access cover plate and electrical disconnect (Filterglow® and Versabeam™ Disconnect luminaires).
2. All exposed screws and /or rivets are of corrosion resistant material.
3. Paint finish is special dark gray epoxy powder overcoat electrostatically applied on all exposed die-cast parts and on the door glass clamp band assembly (Filterglow luminaire) and refractor (Versabeam Disconnect luminaire).
4. Lowmount® luminaire reflector has ALGLAS® finish.

(See "W" Wet Location Option for construction details)

E (or Mounting Code 13) = PROVISIONS FOR SLIDE-ON PRIMARY ELECTRICAL DISCONNECT (Thru-Feed capability only)

Electrical and mechanical connections between the ballast and the electrical power supply can be accomplished with this slide-on arrangement, with no additional wiring required. Order mounting separately (Primary Electrical Disconnect Box, **TWOBP-IND** "Thru-Feed Capability Only"—see Industrial Accessory pages).

E (Only for JR Versabeam Compact Fluorescent series) = EMERGENCY BATTERY BACK-UP One or two lamp back-up

battery works in conjunction with an AC fluorescent ballast that automatically switches on when power is interrupted. Provides 300-750 lumens for up to 90 minutes.

F = FUSING (Not available with multivolt or dual voltage. Not available 208, 240, 480, 600 volt with /CUL)

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for these voltages; 120, 220, 277, 347volts (60Hz), and 220, 230, 240volts (50Hz); or two fuses for these voltages: 208, 240, 480volts (60Hz) and 380volts (50Hz).

G = SECONDARY WIRING ACCESS

7/8 inch diameter knockout in wiring box opposite wiring box door for secondary wiring circuit. (Not available with "W" Wet Location Option or "D" Severe Duty Option.)

H = CHARCOAL FILTERING GASKETING

Luminaires are equipped with dacron felt gasketing material impregnated with charcoal granules. The charcoal helps prevent gaseous contaminants from entering the optical assembly.

J (or Mounting Code 15) = PREWIRED LOOP, CORD AND PLUG PART OF POWER HOOK

Electrical connections are already made between the ballast and the loop, cord, and plug half of the power hook mounting arrangement. Order receptacle hook/box separately (see Industrial Accessory pages).

K = ENCAPSULATED BALLAST FOR QUIET OPERATION

The ballast is encased and encapsulated in the ballast housing.

L = LOW PROFILE (Filterglow, Duraglow® or Omniglow™ luminaires only)

A low profile luminaire is the lowest possible height available with an integral ballast. Rigid mounting is necessary to assure level operating position. (See product pages for low profile dimensions.)

M (or Mounting Code 33) = PREWIRED WITH LOOP, 3-FOOT (0.9 METER) #16/3 CORD, NEMA PLUG

Luminaire is prewired with a loop mounting arrangement, three feet (0.9 meters) of cord and a NEMA plug (different for each voltage).

N (or Mounting Code 14) = PROVISIONS FOR SLIDE-ON PRIMARY ELECTRICAL DISCONNECT (Pendant and Thru-Feed Capability)

Electrical and mechanical connections between the ballast and electrical power supply can be accomplished with a slide-on arrangement, with no additional wiring required. Order mounting separately (Primary Electrical Disconnect Box, **PEDBGR-FDG** which has "Pendant and Thru-Feed Capability"—see Industrial Accessory pages).

INDUSTRIAL DATA

EXPLANATION OF OPTIONS (Continued)

P (or Mounting Code 31) = PREWIRED WITH HOOK, 3-FOOT (0.9 METER) #16/3 CORD, NEMA PLUG

Luminaire is prewired with hook mounting arrangement, three feet of cord and a NEMA plug (different for each voltage).

Q = NON-TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

This option is similar to option "B" except the quartz lamp extinguishes once the HID lamp strikes. During a cold start of the HID lamp, the quartz lamp will not come on. This option does not draw any additional current in the circuit.

Caution: Quartz lamps may unexpectedly shatter, resulting in the discharge of hot glass particles. A suitable lens is recommended.

R = NON-SWITCHED QUARTZ

UL Listed provision for single ended DC (double contact) bayonet base quartz lamp (not included) for 120 volt external power source.

Caution: Quartz lamps may unexpectedly shatter, resulting in the discharge of hot glass particles. A suitable lens is recommended.

S = EXCLUSIONARY MOGUL-BASE SOCKET FOR METAL HALIDE "OPEN FIXTURES"

Mogul-base metal halide lamps featuring an internal protective arc tube shield are now available for use in "Open-Bottom" light fixtures. These open-rated lamps minimize risk of "Non-Passive Lamp Failure." Some lamp manufacturers produce their open-rated lamps with an exclusionary base. This "Special Socket" is designed for use with open-rated lamps that have the special exclusionary base.

This Exclusionary, EX-39, Mogul-base socket for metal halide "Open Fixtures" insures only open-rated lamps with exclusionary base may be used. Contact lamp manufacturer for availability of lamps with exclusionary base. Order this option to insure that only open-rated lamps are used with your fixture.

Per NEC 2005 Regulations, open optical fixtures using Metal Halide lamps must use lamps rated for "open use" in combination with exclusionary base sockets (GELS "S" option). Reference Lamp Technical Data in back of main catalog for Metal Halide Lamp Classifications.

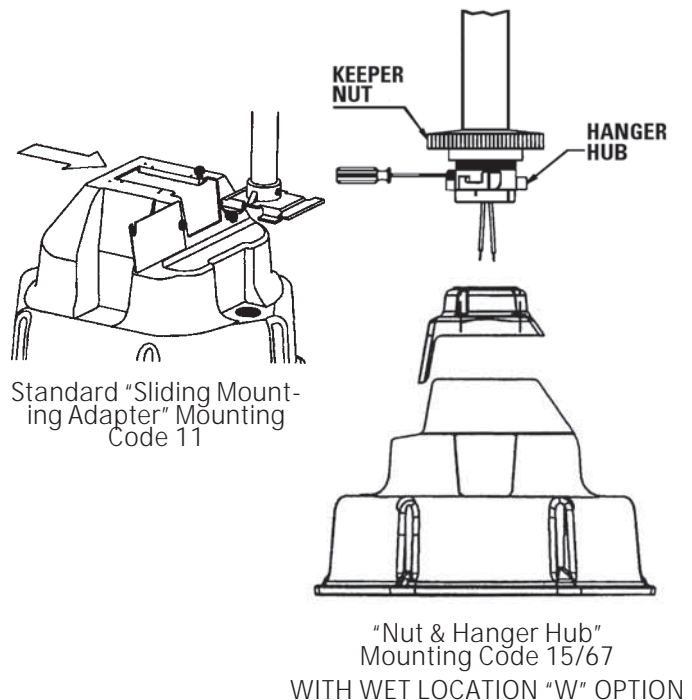
T = E-40 EUROPEAN LAMP SOCKET

This socket accepts European E-40 base lamps. These lamps differ from Domestic E-39 lamps in that they have metric screw shell threads and a taller porcelain outer shell.

W = WET LOCATION

These luminaires are UL1598 Listed SUITABLE FOR WET LOCATIONS. They are of gasketed construction making them suitable for dust and moisture laden environments or weatherproof applications. Gaskets are provided at all points where water or dust entry is probable. All external

hardware is corrosion-resistant material. The charcoal filter (on applicable units) is left free to breathe in the normal fashion. When Wet Location option "W" or Severe Duty "D" option are selected on Generation 5/6 products with EZ-Connect an additional casting is used on top of the ballast housing with the "Nut and Hanger Hub" mounting assembly used on GELS industrial products prior to January 2001. See detail below. There is an additional 1.72 inches (44mm) added to the overall height of the fixture. Severe Duty option, "D" is only available with Ordering Number Logic Mounting Code "67" Wet Location option, "W", is only available with Ordering Number Logic Mounting Code "15" or "67".



Y = SOLO BI-LEVEL PORT

This option provides a port that accepts SOLO Autonomous Bi-Level Module which allows individual Bi-Level control for each fixture without extra control circuits. (See page I-100 for details)

TEFLON LENS

Teflon lens available in place of tempered glass on Filterglow and Uniglow luminaires. Order similar to specified catalog number except with Teflon lens in place of glass (example: Similar to FG5G40S4AE7EQ11 except with Teflon lens in place of glass).

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages - 120, 208, 240 or 277.

HOT RESTART

The hot lamp restart feature is a "K" ballast choice for some HPS luminaires. (See product pages for availability.) During initial energization (cold start) HPS lamps have a two to three minute warm-up period. After stabilization, a momentary power interruption may cause the lamp to go out and it will not restrike for some period of time, approximately one minute for HPS lamps. Under normal conditions there is a delay of two to three minutes before full light output is achieved after a momentary power interruption. "Hot restart" will restart an HPS lamp instantly after power is restored and at essentially the same lumen output even after outages of up to ten (10) seconds. For outages of up to thirty (30) seconds, it will restart the HPS lamp instantly but at slightly reduced lumens for a short period of time. This feature does not affect, or accelerate, initial cold start.

PULSE START SYSTEMS FOR METAL HALIDE

Metal halide pulse start ballast system specifically designed to operate pulse-rated metal halide lamps that require an ignitor. Select "P" in light source field of Catalog Ordering Number Logic. Ballast system is available with "M", Mag Reg; "A", Auto Reg; or "H" Linear Reactor ballast types—see individual product pages for availability. This lamp/ballast combination offers increased lumen output, longer lamp life, improved lumen maintenance, faster hot lamp restart and better color stability than traditional systems.

Due to the rapid evolution of pulse start metal halide lamps, consult lamp and luminaire manufacturer for lamp and ballast compatibility.

The combination of top-performing luminaires from GE Lighting Systems, GE high-quality ballasts with pulse ignitors, and state-of-the-art metal halide lamps offer clear advantages:

- **More Light** — GE pulse start metal halide systems deliver higher initial and higher maintained lumens, providing more light over lamp life, than traditional systems.
- **50% Longer Lamp Life** — 400-watt pulse start metal halide lamps are rated at 30,000 hours when operated at 120 hours per start, with one hour off before restarting the cycle. Longer lamp life reduces the annualized costs associated with relamping.
- **Improved Color Stability** — Pulse start metal halide systems shift less in color over life than standard metal halide, giving a more pleasing, uniform appearance to an installation.

- **Faster Hot Restart Time** — Pulse start systems will restrike in approximately 4 minutes, rather than the 10 to 15 minutes needed for other metal halide lamps. This can be important in applications where a longer hot restart time is unacceptable.

- **Fewer Fixtures and a Lower Connected Lighting Load** — Because pulse start metal halide systems deliver more light and better lumen maintenance, you need fewer fixtures to reach a given footcandle level. With less fixtures, you save on initial costs and energy costs.

Because of the clear metal halide advantage, pulse start lighting systems are becoming a factor in industrial and retail lighting applications. The arc tube shape, fill material and starting method for new metal halide lamps are dramatically different, with resulting improvements in performance and color stability. GE Lighting Systems is developing new metal halide ballast and pulse ignitor technology for the 21st century.

Older lamp technology was based on that of mercury lamps, with starting circuitry positioned within the lamp itself. With new pulse start metal halide lamps, a pulse ignitor outside of the lamp provides the high voltage pulse needed for starting.

GE Lighting Systems makes a number of luminaires that accommodate ballasts with pulse ignitors. See product pages for availability.

SPACING CRITERION

Spacing Criterion (SC) is a term used on many of the product pages. The SC of a luminaire is a number assigned to a specific combination of luminaire, lamp, reflector size, and socket position. SC is the maximum spacing to mounting height ratio that will still produce uniform lighting when that luminaire is used. For example, if the SC of a luminaire is 1.3, it means that for good lighting this luminaire should be spaced at a distance no more than 1.3 times its actual mounting height.

MOUNTING HEIGHT

For indoor industrial applications, mounting height is generally considered to be the distance from the luminaire to a work plane about 3 feet (0.9 meters) from the floor—the height at which most work is done.

LOW BAY AND HIGH BAY

Industrial areas can be divided into low bay and high bay applications. A low bay area is generally one where mounting heights are 20 feet (6 meters) or less, and a high bay area, is one where mounting heights are over 20 feet (6 meters). High bay luminaires use reflectors to direct light downward. Low bay luminaires generally include a refractor to spread out the light for even light distribution and low luminaire brightness. The refractor may be used alone or in combination with a reflector.

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UMC Unimount® 400 (CFL) page I-162



JVP Jr. Versabeam™ (CFL) page I-164



JVD Jr. Versabeam™ Induction page I-166



MGA Mini-Gard™, Fluorescent page I-168



MBC MidBay™ CFL - available after printing - Contact Factory

INDUSTRIAL FLUORESCENT INDEX



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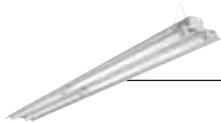
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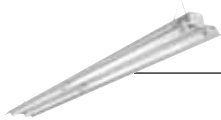
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INDOOR LIGHTING INDEX





VBC VERSABEAM™ COMPACT FLUORESCENT LUMINAIRE

High Bay or Low Bay, Enclosed — Surface Mount Optical Series

With
EZ Connect™

APPLICATIONS

- Commercial / Retail applications where color rendering and instant-on characteristics are desired. For use in multipurpose, gymnasium, auditorium environments where multiple light levels and high quality of lighting are critical. For light industrial, assembly and general purpose applications where lighting control and consistent light output is required.

SPECIFICATION FEATURES

- 1598 Listed
- **Suitable For Damp Locations**
- Listed to Canadian standards and codes
- Enclosed and gasketed optics
- 40 deg. C. ambient rating standard
- UV stabilized injection molded refractor for low brightness.
- Refractor with combination of reflecting and refracting prisms for high efficiency and good brightness control
- In line EZ Connect™ plug-in adapter port allows for:
 - Quick, easy fixture installation and removal
 - Hook, Loop, cord and plug options
 - Plug-in modular wiring systems
 - Adaptable to EZ Connect™ accessories
- Symmetrical, hexagonal heavy duty die-cast aluminum ballast housing with white polyester paint standard
- ALGLAS finish on faceted reflector
- Standard threaded slide-in mounting adapter for easy installation
- Supplied with lamps (not installed)
- Shipped as components: Ballast, Optical and CFL Socket adapter reflector pan

ORDERING NUMBER

VBC	W	48	F	O	F	EA	VA	11	OPTIONS
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	PHOTOMETRY	MOUNTING STYLE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX = Select Code Below	XXX
VBC = Versabeam Compact Fluorescent Luminaire	W = Polyester Powder White	See Table Below	F = Fluorescent 4100K Color Temp 4-Pin Biax Lamps Included	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 *Single voltage selection for 120, 208, 240, 277 available only when ordering installed cord sets, (31, 33 and Modular Prewire), or Fusing. Otherwise order "0" for Multivolt 120/208/240/277 50Hz 6 = 220 R = 230 Y = 240	F = Standard Electronic D = Diming (Contact Factory)	EA = Enclosed Acrylic Refractor	VA = Fixed	11 = Pendant Mounting / EZ Connect 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability) separately 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box separately 15 = Prewire with EZ Loop, Cord and Plug Part or "Power Hook" (Order Receptacle/Hook Box Separately) (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 92 = Individual ballast leads provided for switched light levels / individual ballast circuiting MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)	F = Fusing (Fuse Option not available with Multi-volt) (Dual Fusing, 208-240 volt, not available with CUL Listing) G = Secondary Wiring Access 7/8 in. diameter knockout R = "Pre-wired for emergency battery back-up (supplied by others) with 7/8" OD customer access

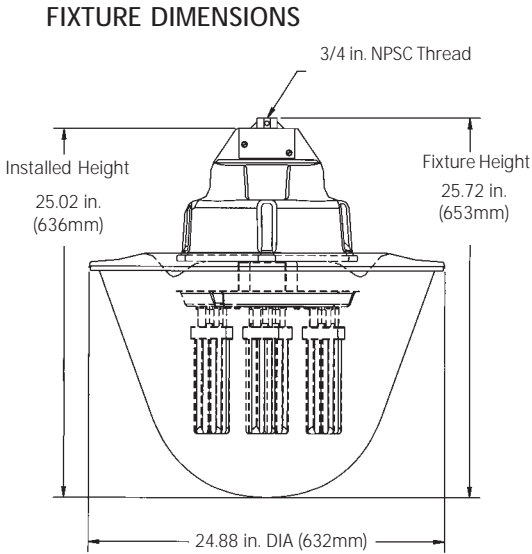
FLUORESCENT WATTAGE ORDER INFORMATION

EA, Optical - Enclosed Acrylic					
Wattage Order Code	Wattage	Number of Lamps	SC	Photo Curve	*Lumen Multiplier
36	32	6	1.7	452892	.52
38	32	8	1.7	452892	.69
43	42	3	1.7	452892	.38
44	42	4	1.7	452892	.50
48	42	8	1.7	452892	1.00
73	70	3	1.8	452893	.61
74	70	4	1.8	452893	.81
76	70	6	1.8	452893	1.22

* Multiply rated lumens from curve listed by "Lumen Multiplier" to provide accurate lumen value for corresponding lamp combination

VBC VERSABEAM™ COMPACT FLUORESCENT LUMINAIRE

High Bay or Low Bay, Enclosed — Surface Mount Optical Series



DATA

Approximate Net Weight Total Fixture	lbs 31 - 34	kgs 14 - 15
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BALLAST SELECTION TABLE

Single Lamp Wattage	Light Source	Ballast Type and Voltage							
		60 hz					50 hz		
		Multi	120	208	240	277	220	230	240
32	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
70	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CFL = Compact Fluorescent
Compact Fluorescent provided with electronic ballast. 4-pin biax lamp included.

COMPACT FLUORESCENT BENEFITS:

- **Instant on** - Compact fluorescent lamps produce light instantly. This allows for the system to be turned off and on as required for optimized energy savings
- **Instant restrike** - Compact fluorescent lamps come on as soon as they are energized with no delayed restrike time. The need for emergency switched quartz restrike feature is eliminated.
- **Color Rendering** - White light with a color rendering index (CRI) of 82 provides for constant, uniform color over the life of the lamp. High CRI allows for brighter, clearer, more vibrant color recognition
- **Elimination of UV** - Compact fluorescent lamps eliminate the concerns of ultraviolet radiation.
- **Improved lumen maintenance** - Compact fluorescent lamps have less lumen depreciation at mean life than typical metal halide lamp types. This results in more consistent light output over the life of the lamp.
- **Low noise** - Compact fluorescent electronic ballasts used do not produce perceptible noise. Sound Rating A.
- **Switchable Light Levels** - Multiple ballasts provide the opportunity to independently switch lamp pairs for multiple, stepped light levels. Optional wiring for circuited versions is available.
- **Emergency battery back-up** - Battery back-up allows for emergency lighting without the need for an auxiliary power back-up system
- **Multiple lamp back-up** - The use of multiple lamps insures that with the independent failure of a single lamp, the fixture continues to provide light until relamping occurs.
- **Safe Operation** - Compact fluorescent light sources do not require specific operation guidelines for safe operation.

GE Lighting Systems, Inc.

www.gelightingsystems.com



With
EZ Connect™

OBC OMNIBEAM™ COMPACT FLUORESCENT LUMINAIRE

High Bay Prismatic Acrylic Open /Enclosed — Surface Mount Optical Series

APPLICATIONS

- Commercial / Retail applications where color rendering and instant-on characteristics are desired. For use in multipurpose, gymnasium, auditorium environments where multiple light levels and high quality of lighting are critical. For light industrial, assembly and general purpose applications where lighting control and consistent light output is required.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- Listed to Canadian standards and codes
- 26" Open/ventilated or enclosed opticals with clear acrylic lens
- 40 deg. C. ambient rating standard
- UV stabilized injection molded prismatic acrylic reflector
- In-line EZ Connect™ plug-in adapter port allows for:
 - Quick, easy fixture installation and removal
 - Hook, Loop, cord & plug options
 - Plug-in modular wiring systems
 - Plug-in fuse kits
- Symmetrical, hexagonal heavy duty die-cast aluminum ballast housing with white polyester paint standard
- Standard threaded slide-in mounting adapter for easy installation
- Supplied with lamps (not installed)
- Shipped as components: Ballast, Optical and CFL Socket adapter reflector pan

ORDERING NUMBER

OBC	W	48	F	0	F	V6	VA	11	OPTIONS
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL	PHOTOMETRY	MOUNTING STYLE	
XXX	X	XX	X	X	X	XX	XX	XX	XXX
OBC = Omnibeam Compact Fluorescent Luminaire	W=Polyester Powder White	See Table Below	F = Fluorescent 4100K Color Temp 4-Pin Biax. Lamps Included	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 *Single voltage selection for 120, 208, 240, 277 available only when ordering installed cord sets, (31, 33 and Modular Prewire), or Fusing. Otherwise order "0" for Multivolt 120/208/240/277 50Hz 6 = 220 R = 230 Y = 240	F = Standard Electronic D = Dimming Contact Factory	V6 = Open and Ventilated 26 in. Reflector E6 = Enclosed 26 in with clear flat acrylic lens Note: see Selection Table Below Note: Contact Factory for LEXAN® polycarbonate	VA = Fixed	11 = Pendant Mounting / EZ Connect 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box separately 15 = Prewire with EZ Loop, Cord and Plug Part or "Power Hook" (Order Receptacle/Hook Box Separately) (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately) 92 = Individual ballast leads provided for switched light levels / individual ballast circuiting MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop Note: ACS = Flex 3 + Sentinel = EZ Flex II (FSC)	F = Fusing (Fuse Option not available with Multivolt) (Dual Fusing, 208 - 240 volt, not available with CUL listing) G = Secondary Wiring Access 7/8 in. dia knockout R = "Pre-wired for emergency battery back-up (supplied by others) with 7/8" OD customer access

OMNIBEAM INDOOR LIGHTING

FLUORESCENT WATTAGE ORDER INFORMATION

Omnibeam Open

V6 Optical - Open and Ventilated 26 Inch Reflector

Wattage Order code	Wattage	Number of Lamps	SC	Photo Curve	*Lumen Multiplier
36	32	6	2.7	452884	.52
38	32	8	2.7	452884	.69
43	42	3	2.7	452884	.38
44	42	4	2.7	452884	.50
48	42	8	2.7	452884	1.00
73	70	3	2.9	452885	.61
74	70	4	2.9	452885	.81
76	70	6	2.9	452885	1.22

Omnibeam Enclosed

E6 Optical - Enclosed 26 Inch Reflector with Flat Acrylic Lens

Wattage Order Code	Wattage	Number of Lamps	SC	Photo Curve	*Lumen Multiplier
36	32	6	2.6	452886	.52
38	32	8	2.6	452886	.69
43	42	3	2.6	452886	.38
44	42	4	2.6	452886	.50
48	42	8	2.6	452886	1.00
73	70	3	2.7	452887	.61
74	70	4	2.7	452887	.81
76	70	6	2.7	452887	1.22

* Multiply rated lumens from curve listed by "Lumen Multiplier" to provide accurate lumen value for corresponding lamp combination

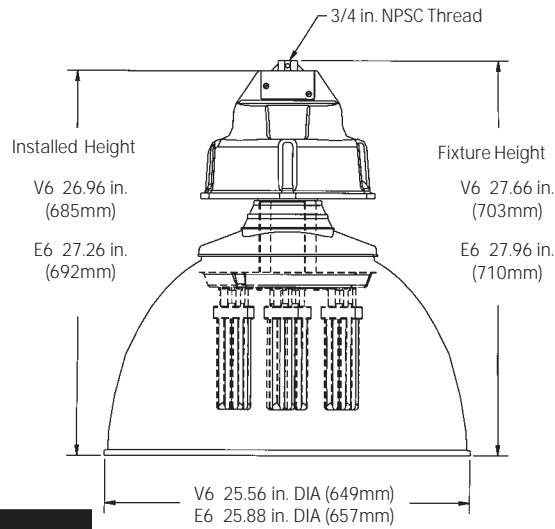
GE Lighting Systems, Inc.

www.gelightingssystem.com

OBC OMNIBEAM™ COMPACT FLUORESCENT LUMINAIRE

High Bay Prismatic Acrylic - Open/Enclosed — Surface Mount Optical Series

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kgs
Total Fixture	35 - 40	16 - 18

BALLAST SELECTION TABLE

Single Lamp Wattage	Light Source	Ballast Type and Voltage							
		60 hz					50 hz		
		Multi	120	208	240	277	220	230	240
32	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
70	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CFL = Compact Fluorescent

Compact Fluorescent provided with electronic ballast. 4-pin biax lamp included.

COMPACT FLUORESCENT BENEFITS:

- **Instant on** - Compact fluorescent lamps produce light instantly. This allows for the system to be turned off and on as required for optimized energy savings
- **Instant restrike** - Compact fluorescent lamps come on as soon as they are energized with no delayed restrike time. The need for emergency switched quartz restrike feature is eliminated.
- **Color Rendering** - White light with a color rendering index (CRI) of 82 provides for constant, uniform color over the life of the lamp. High CRI allows for brighter, clearer, more vibrant color recognition
- **Elimination of UV** - Compact fluorescent lamps eliminate the concerns of ultraviolet radiation.
- **Improved lumen maintenance** - Compact fluorescent lamps have less lumen depreciation at mean life than typical metal halide lamp types. This results in more consistent light output over the life of the lamp.
- **Low noise** - Compact fluorescent electronic ballasts used do not produce perceptible noise
- **Switchable Light Levels** - Multiple ballasts provide the opportunity to independently switch lamp pairs for multiple, stepped light levels. Optional wiring for circuited versions is available.
- **Emergency battery back-up** - Battery back-up allows for emergency lighting without the need for an auxiliary power back-up system
- **Multiple lamp back-up** - The use of multiple lamps insures that with the independent failure of a single lamp, the fixture continues to provide light until relamping occurs.
- **Safe Operation** - Compact fluorescent light sources do not require specific operation guidelines for safe operation.

UMC UNIMOUNT® COMPACT FLUORESCENT LUMINAIRE

Low Bay, Enclosed/Open — Surface Mount Optical Series



With
EZ Connect™

APPLICATIONS

- Commercial / Retail applications where color rendering and instant-on characteristics are desired. For use in multipurpose, gymnasium, auditorium environments where multiple light levels and high quality of lighting are critical. For light industrial, assembly and general purpose applications where lighting control and consistent light output is required.

SPECIFICATION FEATURES

- 1598 Listed Suitable For Damp Locations
- Listed to Canadian standards and codes
- 40 deg. C. ambient rating standard
- Open optical or enclosed with UV stabilized injection molded prismatic acrylic refractor for low brightness
- In line EZ Connect™ plug-in adapter port allows for:
 - Quick, easy fixture installation and removal
 - Hook, Loop, cord & plug options
 - Plug-in modular wiring systems
 - Adaptable to EZ Connect™ accessories
- Symmetrical, hexagonal heavy duty die-cast aluminum ballast housing with white polyester paint standard
- Standard threaded slide-in mounting adapter for easy installation
- Supplied with lamps (not installed)
- Shipped as components: Ballast, Optical and CFL Socket adapter reflector pan

ORDERING NUMBER

UMC	W	48	F	O	F	EA	VA	11	OPTIONS
PRODUCT IDENT XXX	COLOR	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	OPTICAL XX	PHOTOMETRY XX	MOUNTING STYLE XX= Select Code Below	XXX
UMC = Unimount 400 Compact Fluorescent Luminaire	W = Polyester Powder White	See Table Below	F = Fluorescent 4100.K Color Temp 4-Pin Biax Lamps Included	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 *Single voltage selection for 120, 208, 240, 277 available only when ordering installed cord sets, (31, 33 and Modular Prewire), or Fusing. Otherwise order "0" for Multivolt 120/208/240/277 50Hz 6 = 220 R = 230 Y = 240	F = Standard Electronic D = Dimming (Contact Factory)	EA = Enclosed Acrylic Refractor VF = Open/No lens EL = Enclosed LEXAN® polycarbonate refractor Note: See Selection Table Below	VA = Fixed	11 = Pendant Mounting / EZ Connect 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability) 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box separately 15 = Prewire with EZ Loop, Cord and Plug Part or "Power Hook" Order Receptacle/Hook Box Separately (Not CSA/CUL) 31 = Prewire with EZ-Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with EZ-Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug (Order locking receptacle hook box separately.) 92 = Individual ballast leads provided for switched light levels / individual ballast circuiting MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & EZ-Hook 69 = ACS with 6-ft (1.8 meter) cord & EZ-Hook 43 = ACS with 3-ft (0.9 meter) cord & EZ-Loop 70 = ACS with 6-ft (1.8 meter) cord & EZ-Loop 51 = Sentinel with 3-ft (0.9 meter) cord & EZ-Hook 71 = Sentinel with 6-ft (1.8 meter) cord & EZ-Hook 53 = Sentinel with 3-ft (0.9 meter) cord & EZ-Loop 72 = Sentinel with 6-ft (1.8 meter) cord & EZ-Loop Note: ACS = Flex 3+ Sentinel = EZ Flex II (FSC)	F = Fusing (Fuse Option not available with Multivolt) (Dual Fusing, 208-240 volt, not available with CUL Listing. G = Secondary Wiring Access 7/8 in. diameter knockout R = "Pre-wired for emergency battery back-up (supplied by others) with 7/8" OD customer access

FLUORESCENT WATTAGE ORDER INFORMATION

VF Optical - Open Optical					
Wattage Order Code	Wattage	Number of Lamps	SC	Photo Curve	*Lumen Multiplier
36	32	6	2.6	452888	.52
38	32	8	2.6	452888	.69
43	42	3	2.6	452888	.38
44	42	4	2.6	452888	.50
48	42	8	2.6	452888	1.00
73	70	3	2.1	452889	.61
74	70	4	2.1	452889	.81
76	70	6	2.1	452889	1.22

EA, EL Optical - Enclosed Optical					
Wattage Order Code	Wattage	Number of Lamps	SC	Photo Curve	*Lumen Multiplier
36	32	6	2.1	452890	.52
38	32	8	2.1	452890	.69
43	42	3	2.1	452890	.38
44	42	4	2.1	452890	.50
48	42	8	2.1	452890	1.00
73	70	3	1.8	452891	.61
74	70	4	1.8	452891	.81
76	70	6	1.8	452891	1.22

* Multiplied lumens from curve listed by "Lumen Multiplier" to provide accurate lumen value for corresponding lamp combination

Note: "EL" LEXAN® polycarbonate lens reduce light levels by 10%.

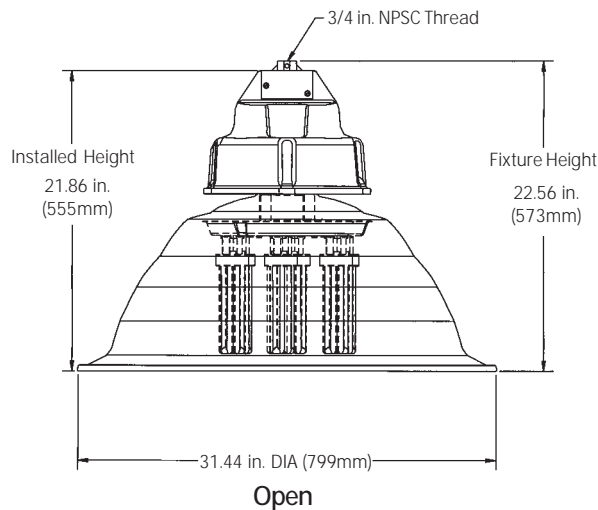
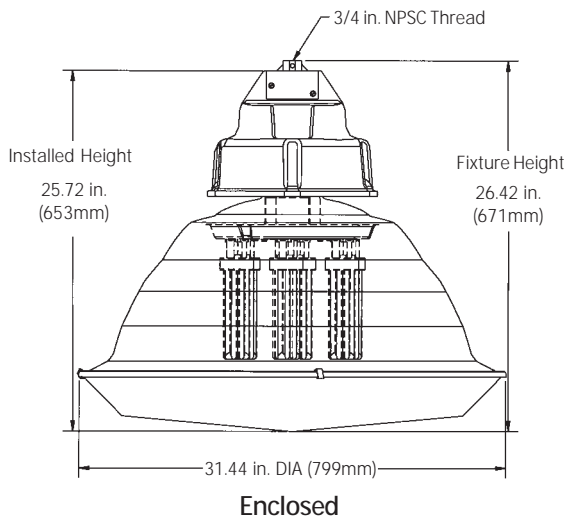
GE Lighting Systems, Inc.

www.gelighting.com

UMC UNIMOUNT® COMPACT FLUORESCENT LUMINAIRE

Low Bay, Enclosed/Open — Surface Mount Optical Series

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	lbs	kgs
Total Fixture	30 - 32	14 - 15

BALLAST SELECTION TABLE

Single Lamp Wattage	Light Source	Ballast Type and Voltage							
		60 hz					50 hz		
		Multi	120	208	240	277	220	230	240
32	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
70	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CFL = Compact Fluorescent

Compact Fluorescent provided with electronic ballast. 4-pin bi-x lamp included.

COMPACT FLUORESCENT BENEFITS:

- **Instant on** - Compact fluorescent lamps produce light instantly. This allows for the system to be turned off and on as required for optimized energy savings
- **Instant restrike** - Compact fluorescent lamps come on as soon as they are energized with no delayed restrike time. The need for emergency switched quartz restrike feature is eliminated.
- **Color Rendering** - White light with a color rendering index (CRI) of 82 provides for constant, uniform color over the life of the lamp. High CRI allows for brighter, clearer, more vibrant color recognition
- **Elimination of UV** - Compact fluorescent lamps eliminate the concerns of ultraviolet radiation.
- **Improved lumen maintenance** - Compact fluorescent lamps have less lumen depreciation at mean life than typical metal halide lamp types. This results in more consistent light output over the life of the lamp.
- **Low noise** - Compact fluorescent electronic ballasts used do not produce perceptible noise. Sound Rating A.
- **Switchable Light Levels** - Multiple ballasts provide the opportunity to independently switch lamp pairs for multiple, stepped light levels. Optional wiring for circuited versions is available.
- **Emergency battery back-up** - Battery back-up allows for emergency lighting without the need for an auxiliary power back-up system
- **Multiple lamp back-up** - The use of multiple lamps insures that with the independent failure of a single lamp, the fixture continues to provide light until relamping occurs.
- **Safe Operation** - Compact fluorescent light sources do not require specific operation guidelines for safe operation.



JR. VERSABEAM™ COMPACT FLUORESCENT LUMINAIRE — CFL

Low Bay, Enclosed

APPLICATIONS

- For 8 to 16 ft. (2 to 4 meter) mounting heights.
- For applications requiring high efficiency and optimized vertical and horizontal light levels
- Industrial, commercial and retail low bay applications, including multipurpose commercial, aisle lighting, display shelving, walkways, and parking garages

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Damp Locations
- 1598 Listed suitable for wet locations depending on mounting configuration ordered
- Listed to Canadian standards and codes
- Sleek, clean housing with teardrop refractor has a low profile and is architecturally appealing
- Compact fluorescent lamps provide
 - Instant-On
 - High color rendering index
- Available in custom colors for architectural design considerations
- Decorative stripe adds custom color designs to the high quality die cast housing
- Lamp included: 4-pin with CFL
- Photometrics provide optimum light levels on vertical and horizontal surfaces
- Advanced refractor technology minimizes glare while maximizing light efficiency
- Mounting options provide flexibility and ease of installation
- Excellent choice for spaces with numerous obstructions
- Sealed optics allow for use in wet locations and dirty environments

ORDERING NUMBER LOGIC

JVP	44	F	O	F	2	A5	WH	N	04	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL	HOUSING COLOR	STRIPE COLOR	MOUNTING	OPTIONS
XXX	XX	X	X	X	X	XX	XX	X	X	X
JVS= Jr. Versabeam with standard ceiling mounting	Fluorescent See table below	F= Compact Fluorescent Lamp included	60Hz 0= 120/208/ 240/277 MULTIVOLT	See Ballast Selection Table F = Fluorescent	2 = 25 5 = 55	A5 = Acrylic Type V	Standard WH=White GR= Gray Electro Coat BL= Black RD= Fire Red BU= Vivid Blue GN= Forest Green YE= Yellow (See NOTE below)	N = None 1 = White 2 = Black 3 = Red 4 = Blue 5 = Green 6 = Yellow See NOTE below.	JVS 01 = Ceiling Mount Wet Location JVD 01 = MPM-C Damp Locations 02 = MPM-3PR* Damp Locations 03 = MPM-3PRW* Wet Locations 04 = MPM-3PF Damp Locations 05 = MPM-3PRTFW* wet Locations 06 = MPM-WWV Wet Locations Note: • See page I-134 for MPM descriptions of JVD mounting adapters. • Mounting adapters included with fixture JVP 01 = 3/4" Rigid pendant* Wet Locations 04 = 3/4" Flex Pendant (Externally adjustable) 15 = Prewire with Loop, Cord and plug part of "Power Hook" Order Receptacle Hook Box Separately. Damp Locations (Not CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16-3 Cord and Nema Plug. Damp Locations * JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.	E = Emergency Battery Back-Up Note: Not available with wattage order codes 44 or 73 F = Fusing Note: See page I-128-140 for Accessory Index and Descriptions. Note: See page I-153-155 for explanation of Options.

COMPACT FLUORESCENT ORDER INFORMATION

A5 & P5 OPTICAL - Enclosed Acrylic/Polycarbonate Type V					
Wattage order code	Wattage	Number of Lamps	Max. Ambient	SC	Photo Curve
21	26	1	55	1.6	451749
31	32	1	55	1.6	451749
41	42	1	55	1.6	451749
71	70	1	25	1.4	452819
23	26	3	25	1.6	451747
43	42	3	25	1.6	451747
24	26	4	25	1.5	451748
34	32	4	25	1.5	451748
44	42	4	25	1.5	451748
73	70	3	25	1.4	452818

Note: C/F = Call Factory
 Note: See page T-34 for Alternative lens material explanation

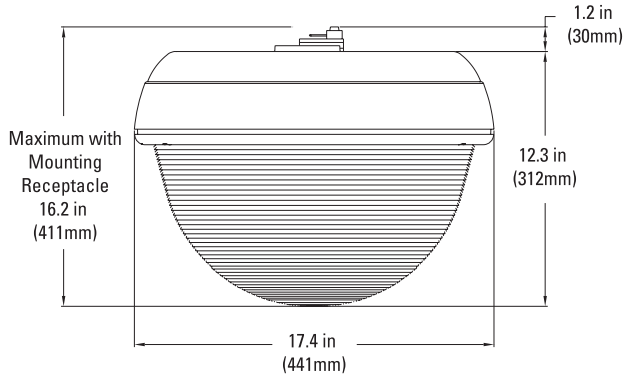
HOUSING COLOR NOTE:
 Colors listed above correspond to the following RAL equivalent:
 White = RAL 9016
 Black = RAL 9017
 Fire Red = RAL 3001
 Vivid Blue = RAL 5005
 Forest Green = RAL 6016
 Yellow = RAL 1023

Standard polyester powder paint finish applied over electrostatic anticorrosion underlayer. Gray (GR) offered in e-coat as standard.

JR. VERSABEAM™
COMPACT FLUORESCENT LUMINAIRE — CFL
 Low Bay, Enclosed

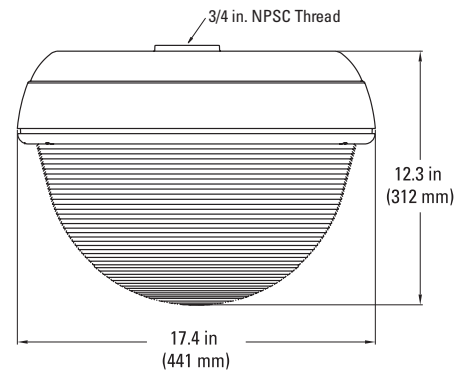
FIXTURE DIMENSIONS

JVD Sliding Disconnect Mounting

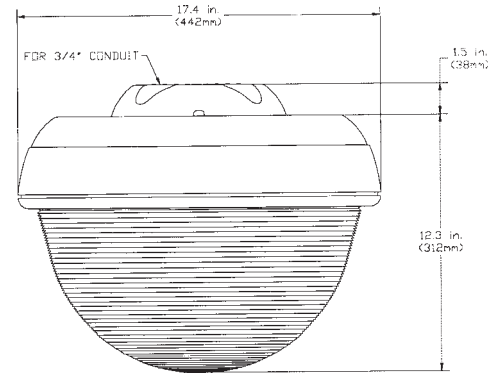


NOTE: *JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.

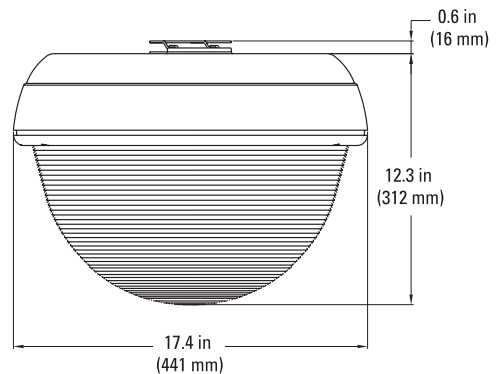
JVP-1 Pendant Mounting



JVP-4 Flexible Pendant Mounting



JVS Surface Mounting



DATA

Approximate Net Weight	lbs	kgs
Total Fixture	16-20	10-11

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type and Voltage									
		60 hz					50 hz				
		Multi	120	208	240	277	Multi	110	220	230	240
26	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
70	CFL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CFL = Compact Fluorescent
 Compact Fluorescent provided with electronic ballast. 4-pin lamp included.

REFERENCES

See Page I-128 for start of Accessories.
 See Pages I-153-155 for Explanation of Options and Other Terms Used.
 Consult factory for polycarbonate.



JR. VERSABEAM™ LUMINAIRE — INDUCTION

Low Bay, Enclosed

APPLICATIONS

- For 8 to 16 ft. (2 to 4 meter) mounting heights.
- For applications requiring high efficiency and optimized vertical and horizontal light levels.
- Industrial, commercial and retail low bay applications, including multipurpose commercial, aisle lighting, display shelving, walkways, and parking garages.

SPECIFICATION FEATURES

- 1598 Listed **Suitable For Damp Locations**
- 1598 Listed suitable for wet locations depending on mounting configuration ordered
- Listed to Canadian standards and codes
- Sleek, clean housing with teardrop refractor has a low profile and is architecturally appealing
- Available in custom colors for architectural design considerations
- Decorative stripe adds custom color designs to the high quality die cast housing
- Lamp included
- Photometrics provide light levels on vertical and horizontal surfaces
- Advanced refractor technology minimizes glare while maximizing light efficiency
- Mounting options provide flexibility and ease of installation
- Excellent choice for spaces with numerous obstructions
- Sealed optics allow for use in wet locations and dirty environments

ORDERING NUMBER LOGIC

JVD	17	Q	1	E	4	A5	WH	N	02	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	OPTICAL	HOUSING COLOR	STRIPE COLOR	MOUNTING	OPTIONS
XXX	XX	X	X	X	X	XX	XX	X	X	X
JVS = Jr. Versabeam with standard ceiling mounting	HID 03 = 35 05 = 50 07 = 70 08 = 85 10 = 100 15 = 150	Q = 85 watt QL Induction Lamp/Ballast System	1 = 120 G = 200 277 Volt 50/60Hz AC/DC	E = Electronic Ballast	4 = 40	A5 = Acrylic Type V AA = Acrylic Asymmetrical	Standard WH=White GR= Gray Electro Coat	N = None 1 = White 2 = Black 3 = Red 4 = Blue 5 = Green 6 = Yellow See NOTE below.	JVS 01 = Ceiling Mount Wet Location JVD 01 = MPM-C Damp Locations 02 = MPM-3PR* Damp Locations 03 = MPM-3PRW* Wet Locations 04 = MPM-3PF Damp Locations 05 = MPM-3PRTFW* wet Locations 06 = MPM-WW Wet Locations Note: • See page I-134 for MPM descriptions of JVD mounting adapters. • Mounting adapters included with fixture JVP 01 = 3/4" Rigid pendant* Wet Locations 04 = 3/4" Flex Pendant (Externally adjustable) Wet Location 15 = Prewire with Loop, Cord and plug part of "Power Hook" Order Receptacle Hook Box Separately. Damp Locations (Not CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16-3 Cord and Nema Plug. Damp Locations * JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.	F = Fusing
JVD = Jr. Versabeam with Sliding Disconnect Mounting	17 = 175 25 = 250									
JVP = Jr. Versabeam with Pendant Mounting										

INDUCTION LAMP/BALLAST SYSTEM FEATURES:

- 80+CRI
- Lamp/ballast system life is rated 100,00 hours (vs 24,000 for HPS)
- Instant On and Instant Restrike
- 4000K Color Temperature
- 5 year warranty
- Minimum Start -30° F
- Max ambient 55°C

Standard polyester powder paint finish applied over electrostatic anticorrosion underlayer. Gray (GR) offered in e-coat as standard.

JR. VERSABEAM INDOOR LIGHTING

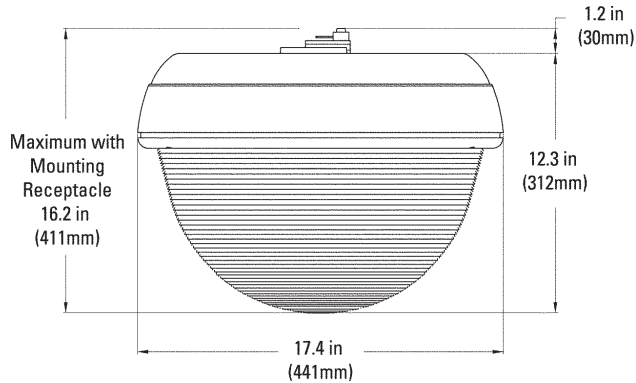


JR. VERSABEAM™ LUMINAIRE — INDUCTION

Low Bay, Enclosed

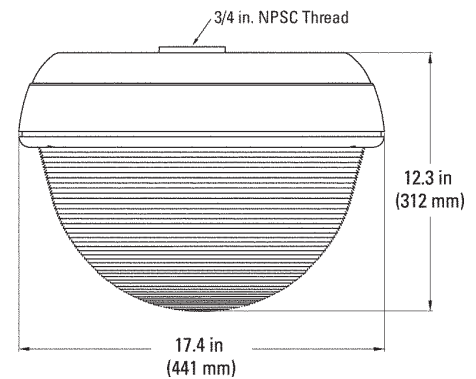
FIXTURE DIMENSIONS

JVD Sliding Disconnect Mounting

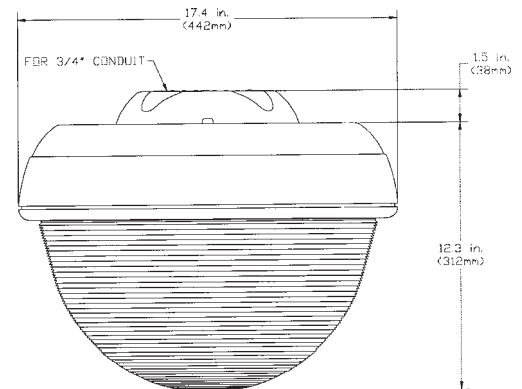


NOTE: *JVD and JVP require that Flexible Pendant Mounting selection be used if unit is not rigidly mounted otherwise unit may not hang straight.

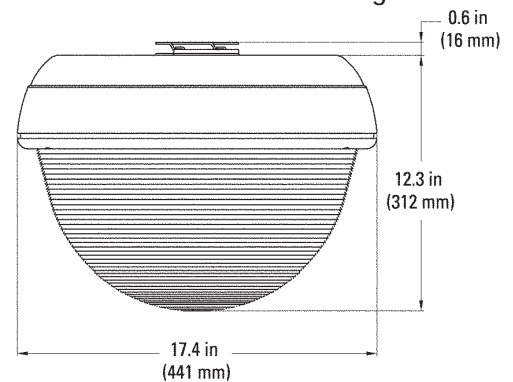
JVP-1 Pendant Mounting



JVP-4 Flexible Pendant Mounting



JVS Surface Mounting



DATA

Approximate Net Weight Total Fixture	lbs	kgs
	16-20	10-11

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

A5 & P5 Optical		
Wattage	Light Source	Curve Number
85	QL Induction	453260

AA & PA Optical		
Wattage	Light Source	Curve Number
85	QL Induction	453261

REFERENCES

See Page I-128 for start of Accessories.

JR. VERSABEAM INDOOR LIGHTING



MGA MINI-GARD™ FLUORESCENT LUMINAIRE

UL 1598 Suitable for Wet Locations (Enclosed and Gasketed)

DIMENSIONS

See next page.

REFERENCES

See Page I-128 for start of Accessories.

See Page I-142 for Component Ordering Logic.

See Page I-153 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight

BALLAST HOUSING ASSEMBLY

Wattage	Pounds	Kilograms
13/26/52 (Fluorescent)	14.0	6

OPTICAL

FG - Globe/Guard	3.7	2
------------------	-----	---

MOUNTINGS

3P/4P Pendant	3.0	1
3C/4C Ceiling	5.0	2
3F/4F Flexible Pendant	3.5	2
5J/6J Angle Stanchion	5.0	2
5S/6S Straight Stanchion	5.0	2
3W/4W Wall	8.0	3

BALLAST SELECTION TABLE

Wattage	Lamp Base	Minimum Start	Ballast Type/Voltage		
			120	277	347
13	Gx23	32°F	H, N	H	N/A
26	G24D	+25°F	H, N	H	N/A
52	G24D	+25°F	H, N	H	N/A

NOTE: Maximum ambient temperature is 40° unless otherwise indicated.

N/A = Not Available

* 70 watt MH not available in 120x347 volt

N = NPF Reactor or Lag

H = HPF Reactor or Lag



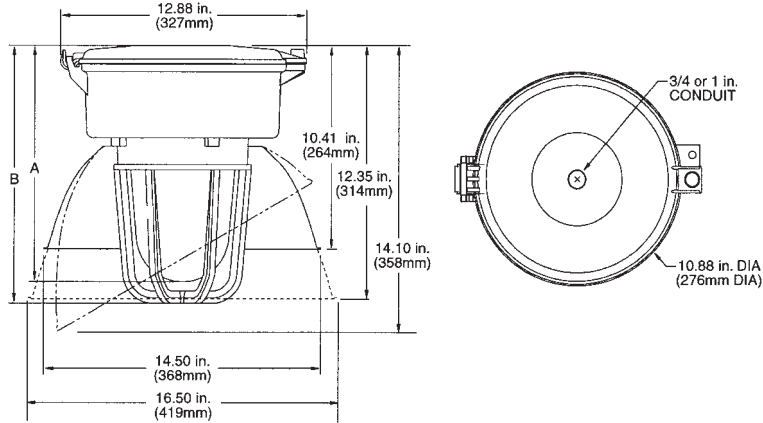
MGA MINI-GARD™ FLUORESCENT LUMINAIRE

UL 1598 Suitable for Wet Locations (Enclosed and Gasketed)

FIXTURE DIMENSIONS

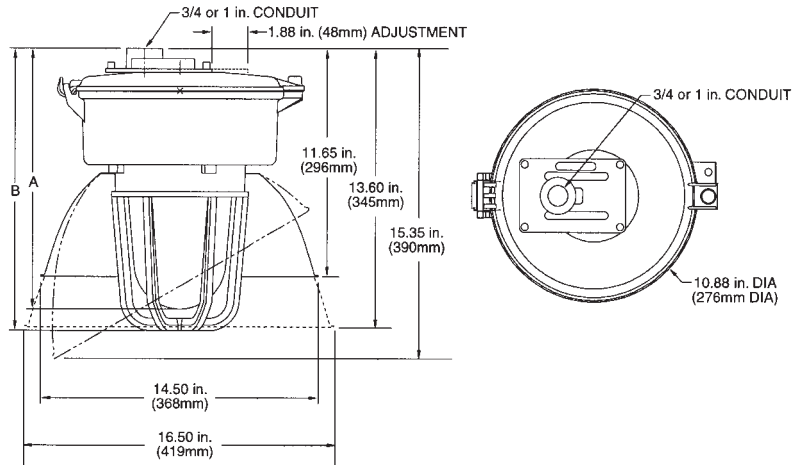
PENDANT MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	13.59 in. (345mm)
B w/ guard	15.11 in. (384mm)



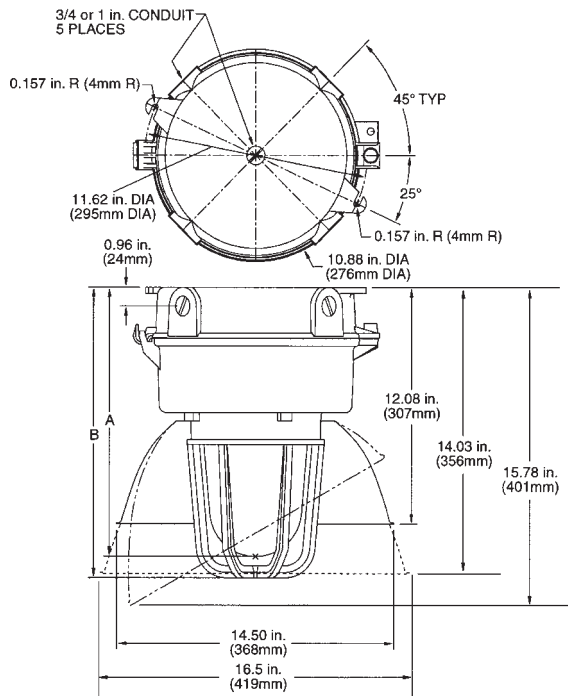
FLEXIBLE PENDANT MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	4.84 in. (377mm)
B	15.94 in. (405mm)



CEILING MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	15.27 in. (388mm)
B w/ guard	16.36 in. (416mm)



Solid Line (—) = Dome Reflector H2000-001
 Dotted Line (···) = Deep Dome Reflector H2000-006
 Dashed Line (---) = Angled Dome Reflector H2000-002

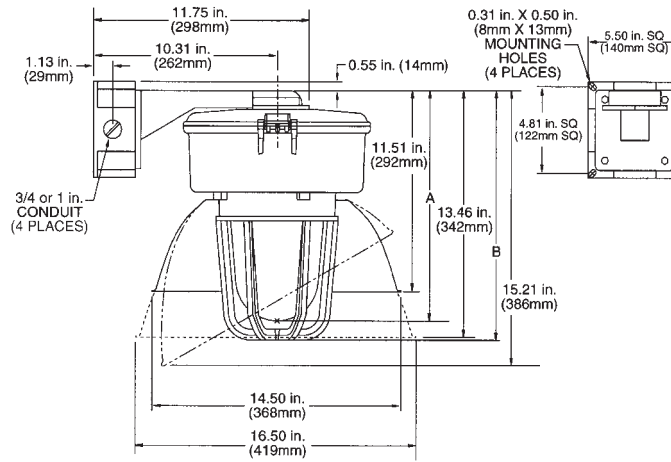
MGA MINI-GARD™ FLUORESCENT LUMINAIRE

UL 1598 Suitable for Wet Locations (Enclosed and Gasketed)

FIXTURE DIMENSIONS

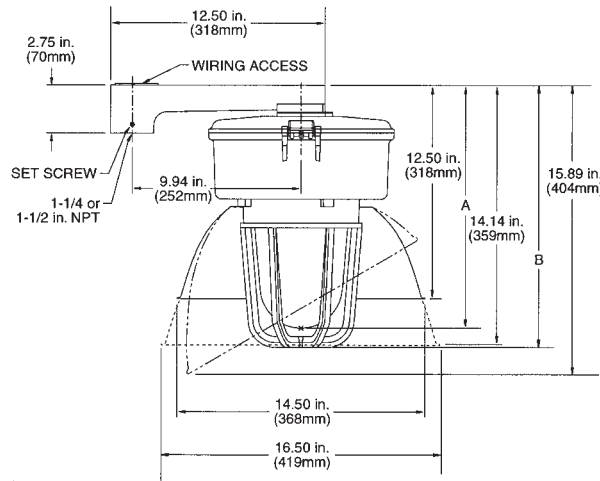
WALL MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	15.38 in. (391mm)
B w/ guard	14.95 in. (380mm)



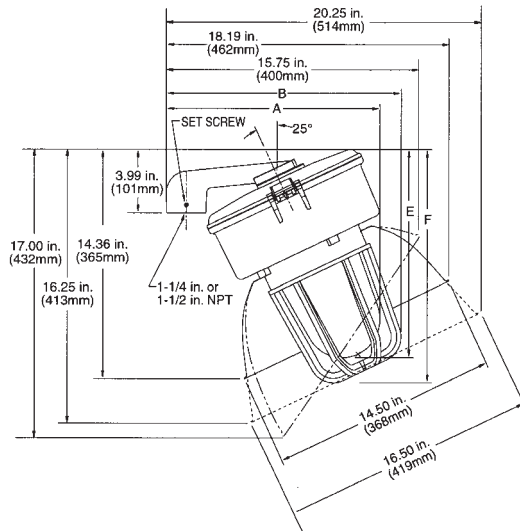
STRAIGHT STANCHION MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	15.38 in. (391mm)
B w/ guard	16.47 in. (418mm)



ANGLE STANCHION MOUNT

Globe:	
Dim.	9.00 in. (229mm)
A	12.67 in. (322mm)
B	13.73 in. (349mm)
E	14.55 in. (370mm)
F	16.12 in. (409mm)



MINI-GARD INDOOR LIGHTING



ULTRA STAR™ "F5 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot– T5 X 4 or 6 Lamp



APPLICATIONS

- Warehouse, light industrial, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.
- Applications where heavy duty construction or impact resistance may be required.
- Lens options used where lamp protection, cold temperature (<60F) or protection from airborne particulate is required.

SPECIFICATIONS:

- Body and end caps are .040 thick aluminum painted white.
- End caps are riveted to housing for strength and rigidity.
- Precision formed aluminum reflectors are held in place with quarter turn locks and pinch tabs. No tools required for ballast access.
- Suitable for chain hang or single point mounting.
- Concealed top mounted lamp option available for ceiling illumination.
- Electronic ballast standard. T5 – HO, Program Start ballast, Rated class P.
- Listing – listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material — MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options. (F Series 4 lamp = 55°C)

FEATURES:

- Instant restrike
- Uplight option
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open or enclosed options available
- Heavy duty housing construction

FLUORESCENT INDOOR

I

ORDERING NUMBER LOGIC

F5	4	4	5	0	0	R1N	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT/DISTRIBUTION SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX = T5	X = 4'	XXX = 4 = 4 6 = 6 8 = 8	X = 54W	X = A = 4100K E = 5000K	XXX = 0 = No Uplight/Standard Distribution 2 = 2 Lamp Uplight/Standard Distribution P = 5% Uplight Slots	XXX	X = 0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 H = 347 to 480	XX = AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount AD = V- Hanger w/3' Chain AK = V- Hanger Only. (No Chain) Note: Contact Factory for other mounting configurations.	XX = 00 = No Cord 03 = 3' 06 = 6' 08 = 8'	X = 0 = None 3 = AWG 18-3 6 = Stow 16-3 Note: Stow Required For 480 Volt	X = A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	XXX = C = Occupancy Sensor (For Open area) J = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) H = Steel door frame, w/clear lens K = Piano-hinged steel door frame w/clear acrylic lens L = Occupancy Sensor (For Aisle use) P = Steel door frame w/ pattern 12 lens V = Steel door frame w/ prismatic "V" bottom lens W = Wire Guard

1st Digit - Ballast Type
R = Electronic Ballast-Program Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
High Ballast Factor 1.00

3rd Digit - Type/Combination
B = 2/2/2 = (3) 2-Lamp Ballasts
M = 4/4 = (2) 4-Lamp Ballast
N = 4 = (1) 4-Lamp Ballast
K = 4/2 = (1) 4-Lamp Ballast, (1) 2-Lamp Ballast

SPECIAL NOTES:

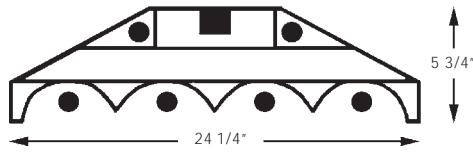
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option J Battery Backup: 1 Lamp at 1150 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

GE Lighting Systems, Inc.
www.gelightingsystems.com

ULTRA STAR™ "F5-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T5 - 4 LAMP FIXTURE DIMENSIONS



PHOTOMETRY

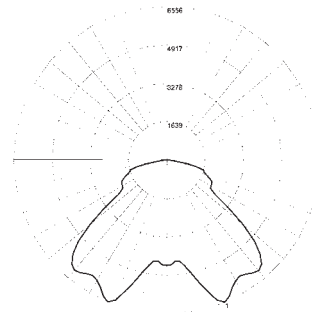
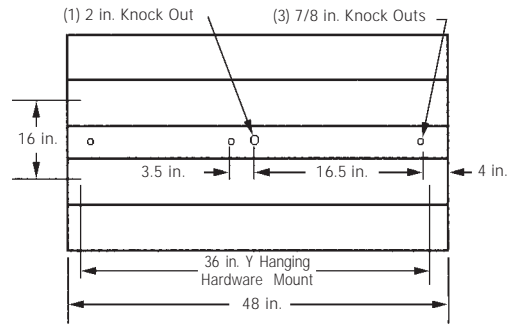
(4) Lamp Curve # 35-452969

QUICK REFERENCE GUIDE

4x54 T5 HO, 234W

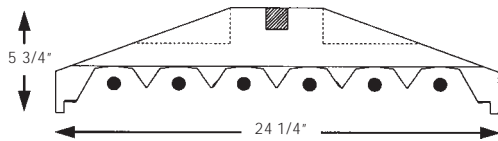
Fixture Spacing	15	20	25
	Maintained Footcandles*		
50' High	55	29	18
45' High	58	31	19
40' High	62	34	21
35' High	65	36	23
30' High	68	38	25
25' High	70	41	27
20' High	75	43	29
15' High	78	45	31

* Calculations based on T5 HO lamps at 4,500 mean lumens.
Actual results may vary depending on application conditions.
Quick reference chart based on version without Up-Light



Efficiency = 97.6%
S/MH = 1.9

T5 - 6 LAMP FIXTURE DIMENSIONS



PHOTOMETRY

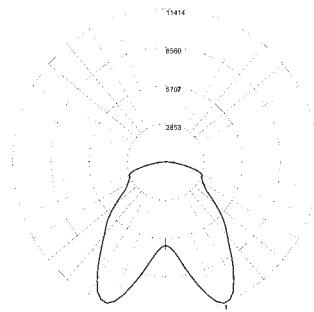
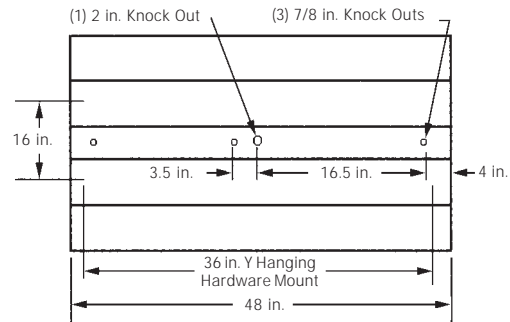
(6) Lamp Curve # 35-452977

QUICK REFERENCE GUIDE

6x54 T5 HO, 351W

Fixture Spacing	15	20	25
	Maintained Footcandles*		
50' High	82	46	25
45' High	88	50	28
40' High	94	54	32
35' High	100	57	35
30' High	108	60	38
25' High	115	63	43
20' High	120	68	47
15' High			

* Calculations based on T5 HO lamps at 4,500 mean lumens.
Actual results may vary depending on application conditions.
Quick reference chart based on version without Up-Light



Efficiency = 98.2%
S/MH = 1.7

ULTRA STAR™ "F8 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot- T8 X 6 Lamp



APPLICATIONS

- Warehouse, light industrial, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.
- Applications where heavy duty construction or impact resistance may be required.
- Lens options used where lamp protection, cold temperature (<60F) or protection from airborne particulate is required.

SPECIFICATIONS

- Body and end caps are 22 gauge C.R.S painted white.
- End caps are riveted to housing for strength and rigidity.
- Precision formed aluminum reflectors are held in place with quarter turn locks and pinch tabs. No tools required for lamp or ballast access.
- Suitable for chain hang or single point mounting.
- Concealed top mounted lamp option available for ceiling illumination.
- Electronic ballast standard. T8 - GE Ultramax ballast, high power factor (1.15), instant start standard. Rated class P.
- Listing – (UL) listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES

- Instant restrike
- Uplight option
- Lower component replacement parts
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open or enclosed options available
- Heavy duty housing construction

FLUORESCENT INDOOR

I

ORDERING NUMBER LOGIC

F8	4	6	3	0	0	E1J	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT/DISTRIBUTION SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	XXX	X	X	X	XXX	X	XX	XX	X	X	XXX
F8 = T8	4 = 4'	6 = 6	3 = 32W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight/Standard Distribution 2 = 2 Lamp Uplight/Standard Distribution P = 5% Uplight Slots		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480	AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount AD = V-Hanger w/3' Chain AK = V-Hanger Only (No Chain) Note: Contact Factory for other mounting configurations.	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	C = Occupancy Sensor (For Open area) E = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) H = Steel door frame, w/clear lens K = Piano-hinged steel door frame w/clear acrylic lens L = Occupancy Sensor (For Aisle use) P = Steel door frame w/pattern 12 lens V = Steel door frame w/prismatic "V" bottom lens W = Wire Guard

1st Digit - Ballast Type
E = Electronic Ballast-Instant Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
GE Ultramax High Ballast Factor 1.15
High Ballast Factor 1.15
2 = UltraMax Normal Ballast Factor .87

3rd Digit - Type/Combination
J = (2) 3-Lamp Ballasts to Operate (6) Lamps
Contact Factory for different Lamp Ballast Combinations.

SPECIAL NOTES:

1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option E Battery Back: 1 Lamp at 550 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

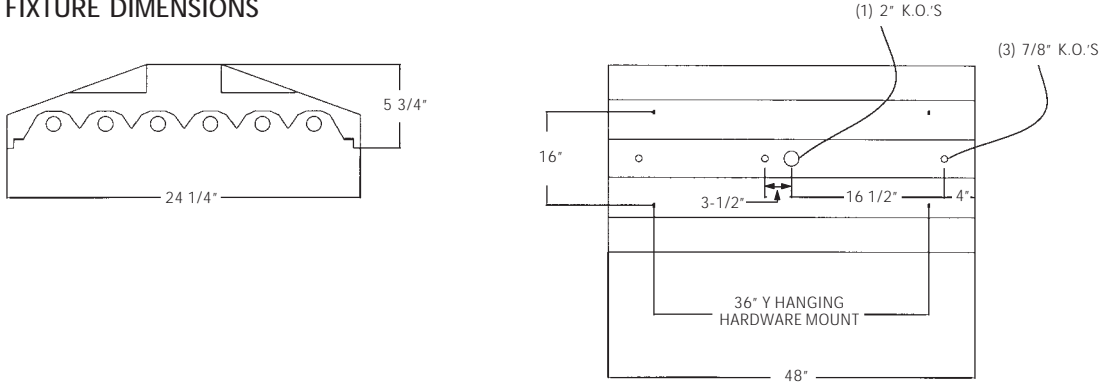
NOTE: Shaded Logic indicates Standard Offering

GE Lighting Systems, Inc.
www.gelightingsystems.com

ULTRA STAR™ "F8-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T8 - 6 Lamp

FIXTURE DIMENSIONS

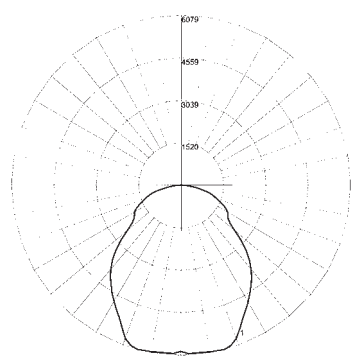


PHOTOMETRY

(6) Lamp Curve # 35-452973

Fixture Spacing	QUICK REFERENCE					
	6x32 T8 Normal, 174W			6x32 T8 High Light, 224W		
	15	20	25	15	20	25
	Maintained Footcandles*			Maintained Footcandles*		
50' High	46	26	16	57	31	21
45' High	48	28	17	60	33	22
40' High	51	30	18	64	35	24
35' High	56	32	19	68	37	25
30' High	58	33	20	70	39	26
25' High	60	34	22	72	41	27
20' High	62	36	24	77	44	29
15' High	64	37	26	81	46	31

* Calculations based on Extended Performance T8 lamps at 2,820 mean lumens. Actual results may vary depending on application conditions. Quick reference chart based on version without Up-Light



Efficiency = 85.9%
S/MH = 1.2

FLUORESCENT INDOOR

ULTRA STAR™ "M5 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot- T5 X 4 Lamp



APPLICATIONS

- Warehouse, light industrial, stack aisle, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.
- Applications where heavy duty construction or impact resistance may be required.
- Lens options used where lamp protection, cold temperature (<60F) or protection from airborne particulate is required.

SPECIFICATIONS:

- Body and end caps are 0.40 thick aluminum painted white.
- End caps are riveted to housing for strength and rigidity.
- Suitable for chain hang or single point mounting.
- Precision formed aluminum reflectors are held in place with quarter turn locks and pinch tabs. No tools required for lamp or ballast access.
- Housing ballast chamber vented for extended ballast life.
- Electronic ballast standard. T5 - HO, Program Start ballast, Rated class P.
- Listing – (UL) listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 55 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES:

- Instant restrike
- No color shift
- Improved uniform illumination
- Higher CRI
- Higher vertical footcandles
- Replace up to 400 watt HID
- Occupancy Sensor and emergency options available
- Improved lumen maintenance
- Extended lamp life
- 480 Volt option
- Open or enclosed options available
- Heavy duty housing construction

FLUORESCENT INDOOR

I

ORDERING NUMBER LOGIC

M5	4	4	5	0	0	R1N	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT/DISTRIBUTION SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	X	X	X	X	XXX	X	XX	XX	X	X	XXX
M5 = T5	4 = 4'	4 = 4	5 = 54W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 H = 347 to 480	AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount AD = V-Hanger w/3' Chain AK = V-Hanger Only. (No Chain) Note: Contact Factory for other mounting configurations.	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3 Note: Stow required for 480 Volt	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	C = Occupancy Sensor (For Open area) J = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) H = Steel door frame, w/clear lens K = Piano-hinged steel door frame w/clear acrylic lens L = Occupancy Sensor (For Aisle use) P = Steel door frame w/pattern 12 lens W = Wire Guard

1st Digit - Ballast Type
R = Electronic Ballast-Program Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
High Ballast Factor 1.00

3rd Digit - Type/Combination
N = 4 = (1) 4-Lamp Ballast
G = 2/2 = (2) 2-Lamp Ballasts

SPECIAL NOTES:

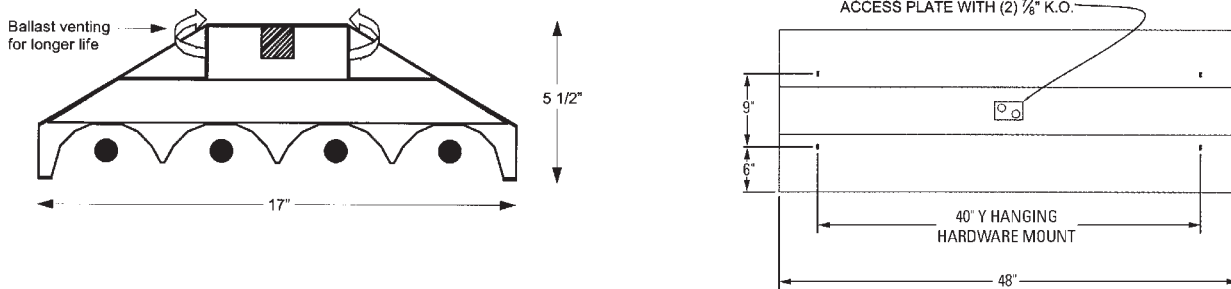
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option J Battery Backup: 1 Lamp at 1150 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "M5-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T5 - 4 Lamp

FIXTURE DIMENSIONS



PHOTOMETRY

(4) Lamp Curve # 35-452979

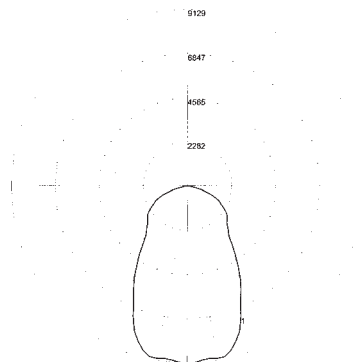
HIGH BAY REPLACEMENT GUIDE - QUICK REFERENCE

System Application	4x54 T5 HO, 234W 6 Ft. Wide Stack Aisle				4x54 T5 HO, 234W Open Area			
	15	20	25	30	15	20	25	30
Fixture Spacing	Maintained Footcandles*				Maintained Footcandles*			
50' High	18	15	12	8	58	33	20	18
40' High	24	18	15	12	66	36	23	20
30' High	35	27	21	17	72	40	26	23
20' High	54	42	33	25	78	45	28	25

* Calculations based on T5 HO lamps at 4,500 lumens.
Horizontal Footcandles at 2.5 Feet.
Actual results may vary depending on application conditions.

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	6793.28	34	35.8
0-40	10387.7	51.9	54.8
0-60	16067.67	80.3	84.7
0-90	18960.55	94.8	100
90-120	0.0	0.0	0.0
90-130	0.0	0.0	0.0
90-150	0.0	0.0	0.0
90-180	0.0	0.0	0.0
0-180	18960.55	94.8	100
Total Luminaire Efficiency = 94.8%			



Efficiency = 94.8%
Spacing 0 DEG. = 1.26
Spacing 90 DEG. = 1.0

FLUORESCENT INDOOR





ULTRA STAR™ "C5 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot– T5 X 4 Lamp, 8 Foot– T5 X 6 Lamp and 8 Lamp

APPLICATIONS

- Warehouse, light industrial, stack aisle, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS:

- Body and end caps are 22gauge C.R.S. painted white.
- End caps are riveted to housing for strength and rigidity.
- Suitable for chain hang or single point mounting (4' length only).
- Reflector hinged to housing for ballast access. No tools required.
- Precision formed aluminum reflectors are held in place with quarter turn locks and pinch tabs.
- Ample knockouts and access plate provided for power supply.
- Electronic ballast standard. T5 - HO, Program Start ballast, Rated class P.
- Listing – (UL) listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES:

- Instant restrike
- No color shift
- Improved uniform illumination
- Higher CRI
- Higher vertical footcandles
- Occupancy Sensor and emergency options available
- Improved lumen maintenance
- Extended lamp life
- 480 Volt option

FLUORESCENT INDOOR

1

ORDERING NUMBER LOGIC

C5	4	4	5	E	0	R1N	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT/DISTRIBUTION SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
C5 = T5	4 = 4' 8 = 8'	2 = 2 4 = 4 6 = 6 8 = 8 Note: Available in 8' length only	5 = 54W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight	XXX	0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120V 2 = 208 3 = 240 4 = 277V H = 347 to 480	AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount Note: Available on 4' length only AD = V- Hanger w/3' Chain AK = V- Hanger Only. (No Chain) Note: Contact Factory for other mounting configurations.	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3 Note: Stow required for 480 Volt	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	XXX C = Occupancy Sensor (For Open area) J = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle use) W = Wire Guard

1st Digit - Ballast Type
R = Electronic Ballast-Program Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
High Ballast Factor 1.00

3rd Digit - Type/Combination
B = 2/2/2 = (3) 2-Lamp Ballasts
H = 1 = (1) 2-Lamp Ballast
M = 4/4 = (2) 4-Lamp Ballast
N = 4 = (1) 4-Lamp Ballast
K = 4/2 = (1) 4-Lamp Ballast, (1) 2-Lamp Ballast

SPECIAL NOTES:

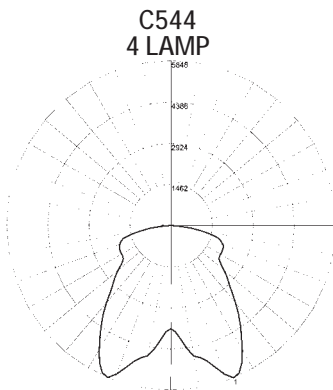
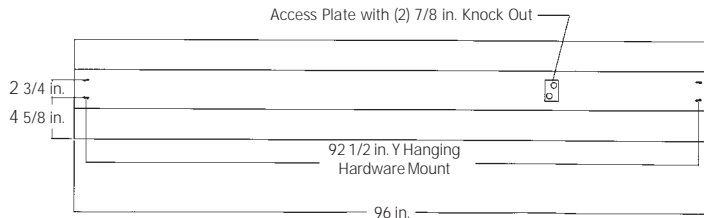
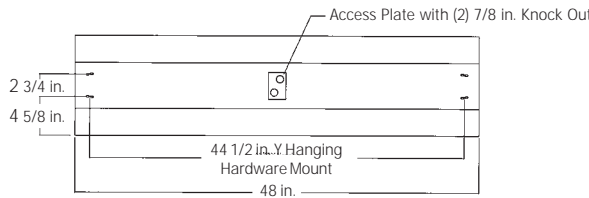
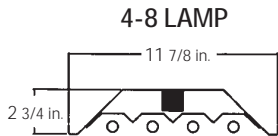
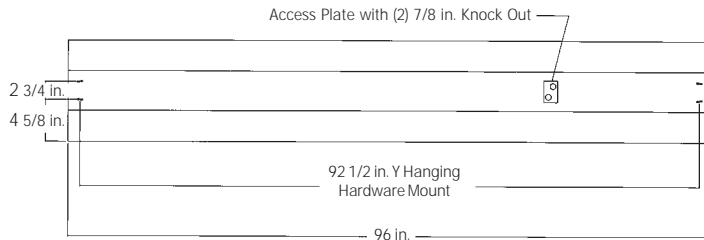
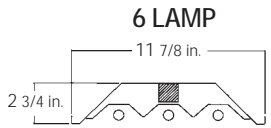
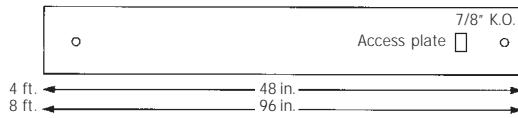
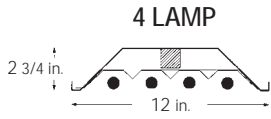
- Occupancy sensor requires discrete voltage. Line voltage operation standard.
- Cord and NEMA plug require discrete voltage.
- Option J Battery Backup: 1 Lamp at 1150 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
- Ballast supplier can vary for 480 volt fixtures.

NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "C5-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T5 - 4 Lamp, 8 Foot- T5 X 6 Lamp and 8 Lamp

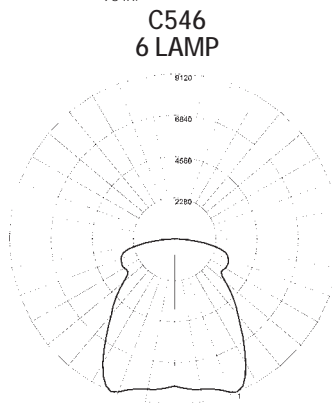
FIXTURE DIMENSIONS



Curve # 453270

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3883	21	26
0-40	6554	36	45
0-60	11177	62	77
0-90	14473	80	100
90-120	0	0	0.0
90-130	0	0	0.0
90-150	0	0	0.0
90-180	0	0	0.0
0-180	14473	80	100

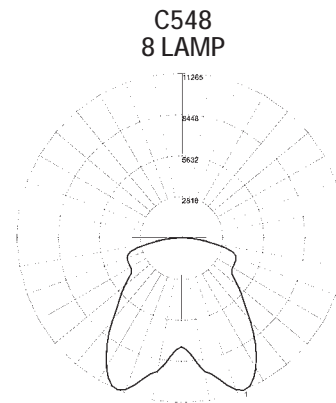
Total Luminaire Efficiency = 80%
Spacing Along = 1.2
Spacing Across = 1.6



Curve # 453280

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	6880	25	28
0-40	11251	41	46
0-60	18682	69	77
0-90	24224	89	100
90-120	0	0	0.0
90-130	0	0	0.0
90-150	0	0	0.0
90-180	0	0	0.0
0-180	24224	89	100

Total Luminaire Efficiency = 89.7%
Spacing Along = 1.2
Spacing Across = 1.3



Curve # 453281

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	7645	21	26
0-40	12955	36	45
0-60	22188	61	7
0-90	28737	79	100
90-120	0	0	0.0
90-130	0	0	0.0
90-150	0	0	0.0
90-180	0	0	0.0
0-180	28737	79	100

Total Luminaire Efficiency = 79%
Spacing Along = 1.2
Spacing Across = 1.6

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ULTRA STAR™ "E5 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot– T5 X 4 or 6 Lamp



APPLICATIONS

- Warehouse, light industrial, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS

- Reflector housing is .032 inch thick aluminum
- Heavy gauge steel lamp holder brackets are riveted to housing for strength
- Suitable for chain hang or single point mounting
- Uplight slots available for ceiling illumination
- Ballast cover held in place with turn locks. No tools required for ballast access.
- Upper channel vented extending ballast life.
- Electronic ballast standard. T5 – HO, Program Start ballast, Rated class P.
- Listing – / listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES

- Instant restrike
- Uplight option
- Slim design, 3" high
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open ventilated construction

FLUORESCENT INDOOR

1

ORDERING NUMBER LOGIC

E5	4	4	5	0	0	R1N	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	XXX	X	X	X	XXX	X	XX	XX	X	X	XXX
E5 = T5	4 = 4'	4 = 4 6 = 6	5 = 54W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight P = 5% Uplight Slots Note: Contact Factory for other uplight configurations		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 H = 347 to 480	AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount AD = V- Hanger w/3' Chain AK = V- Hanger Only (No Chain) Note: Contact Factory for other mounting configurations.	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3 Note: Stow Required For T5 - 480 VOLT	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	C = Occupancy Sensor (For Open area) J = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle use) W = Wire Guard

1st Digit - Ballast Type
R = Electronic Ballast-Program Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
High Ballast Factor 1.00

3rd Digit - Type/Combination
B = 2/2/2 = (3) 2-Lamp Ballasts
N = 4 = (1) 4-Lamp Ballast
K = 4/2 = (1) 4-Lamp Ballast, (1) 2-Lamp Ballast
G = 2/2 = (2) 2-Lamp Ballasts

SPECIAL NOTES:

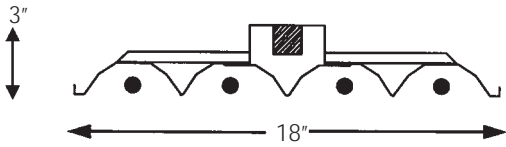
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option J Battery Backup: 1 Lamp at 1150 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "E5-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T5 - 4 LAMP FIXTURE DIMENSIONS

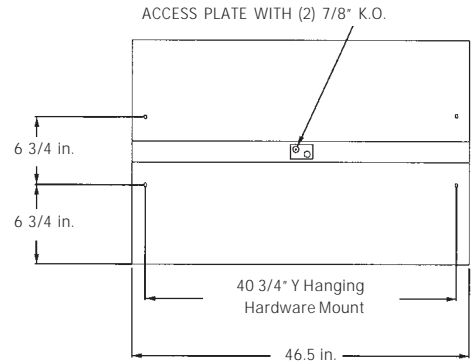
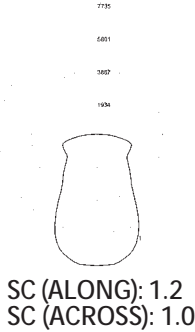
T5 - 4 or 6 Lamp



PHOTOMETRY

(4) Lamp Curve # 35-452956

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	5755.51	32.0	32.9
0-40	8749.21	48.6	50.0
0-60	13564.35	75.4	77.6
0-90	17476.64	97.1	99.9
90-120	8.14	0	0
90-130	8.59	0	0
90-150	9.29	0.1	0.1
90-180	9.71	0.1	0.1
0-180	17486.35	97.1	100.0
Total Luminaire Efficiency = 97.10%			



System Application	QUICK REFERENCE GUIDE							
	4x54 T5 HO, 234W				4x54 T5 HO, 234W			
	6 FT WIDE STACK AISLE				OPEN AREA			
Fixture Spacing	15	20	25	30	15	20	25	30
	Maintained Footcandles*				Maintained Footcandles*			
50' High	16	13	11	8	55	31	18	
40' High	22	17	14	11	64	34	21	
30' High	33	25	20	17	70	38	24	
20' High	52	39	30	24	76	43	26	

* Calculations based on T5 HO lamps at 4,500 mean lumens.

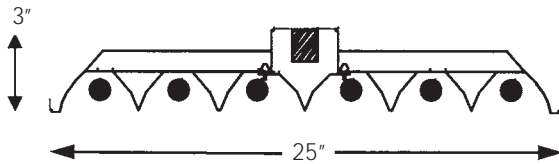
Horizontal Footcandles at 2.5 Feet.

Actual results may vary depending on application conditions.

FLUORESCENT INDOOR



T5 - 6 LAMP FIXTURE DIMENSIONS

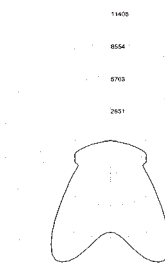
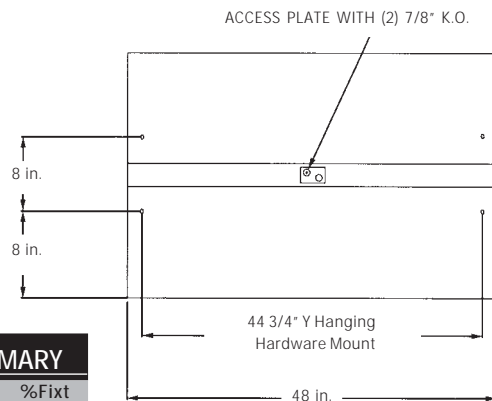


PHOTOMETRY

(6) Lamp Curve # 35-452959

QUICK REFERENCE GUIDE			
System	6x54 T5 HO, 351W		
Fixture Spacing	15	20	25
	Maintained Footcandles*		
50' High	81	45	23
45' High	87	48	27
40' High	93	52	31
35' High	99	55	34
30' High	106	59	36
25' High	112	62	42
20' High	118	67	46

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	7927.8	29.4	30.9
0-40	13017.8	48.2	50.7
0-60	20908.4	77.4	81.4
0-90	25672.9	95.1	100.0
90-120	0.0	0.0	0.0
90-130	0.0	0.0	0.0
90-150	0.0	0.0	0.0
90-180	0.0	0.0	0.0
0-180	25672.9	95.1	100.0
Total Luminaire Efficiency = 97.10%			



* Calculations based on Extended Performance T8 lamps at 2,820 mean lumens.

Horizontal Footcandles at 2.5 Feet.

Actual results may vary depending on application conditions.

SC (ALONG): 1.2
SC (ACROSS): 1.4

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ULTRA STAR™ "E8 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

4 Foot– T8 X 6 Lamp



APPLICATIONS

- Warehouse, light industrial, commercial / retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS:

- Reflector housing is .032 inch thick aluminum
- Heavy gauge steel lamp holder brackets are riveted to housing for strength
- Suitable for chain hang or single point mounting
- Uplight slots available for ceiling illumination
- Ballast cover held in place with turn locks. No tools required for ballast access.
- Upper channel vented extending ballast life.
- Electronic ballast standard. T8 – GE Ultramax ballast, high power factor (1.15), instant start standard. Rated class P.
- Listing – / listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES:

- Instant restrike
- Uplight option
- Slim design, 3" high
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open ventilated construction

FLUORESCENT INDOOR

1

ORDERING NUMBER LOGIC

E8	4	6	3	0	0	E1J	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	X	X	X	X	XXX	X	XX	XX	X	X	XXX
E8 = T8	4 = 4'	6 = 6	3 = 32W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight P = 5% Uplight Slots Note: Contact Factory for other uplight configurations		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120V 2 = 208 3 = 240 4 = 277V 5 = 480	AA = No Mounting Hardware AB = Access Box 3/4" Single Pendant Mount AD = V- Hanger w/3' Chain AK = V- Hanger Only (No Chain) Note: Contact Factory for other mounting configurations.	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	C = Occupancy Sensor (For Open area) E = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle use) W = Wire Guard

1st Digit - Ballast Type
E = Electronic Ballast-Instant Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering GE Ultramax High Ballast Factor 1.15
2 = UltraMax Normal Ballast Factor .87

3rd Digit - Type/Combination
J = (2) 3-Lamp Ballasts to Operate (6) Lamps
Contact Factory for different Lamp Ballast Combinations.

SPECIAL NOTES:

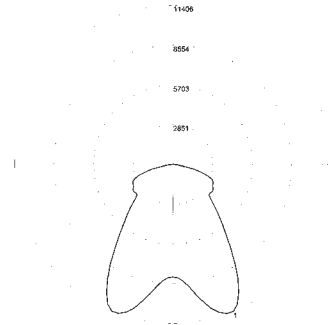
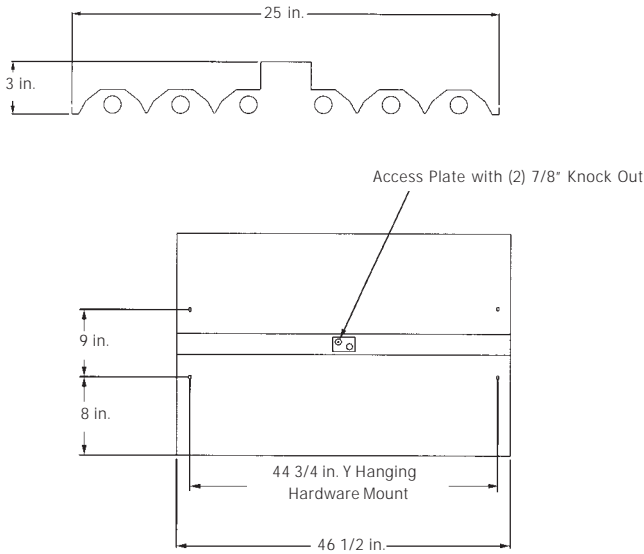
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option E Battery Back up: 1 Lamp at 550 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "E8-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T8 – 6 Lamp

FIXTURE DIMENSIONS



SC (ALONG): 1.26
SC (ACROSS): 1.34

PHOTOMETRY

(6) Lamp Curve # 35-452957

HIGH BAY REPLACEMENT GUIDE - QUICK REFERENCE

Fixture Spacing	6x32 T8 Normal, 174W			6x32 T8 High Light, 224W		
	15	20	25	15	20	25
	Maintained Footcandles*			Maintained Footcandles*		
50' High	47	27	17	59	33	22
45' High	49	30	18	62	35	23
40' High	52	32	19	66	37	26
35' High	57	34	21	70	40	27
30' High	59	34	23	71	41	28
25' High	61	35	24	73	42	29
20' High	63	37	25	79	45	31
15' High	65	38	27	82	47	33

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	7927.8	29.4	30.9
0-40	13017.8	48.2	50.7
0-60	20908.4	77.4	81.4
0-90	25672.9	95.1	100.0
90-120	0.0	0.0	0.0
90-130	0.0	0.0	0.0
90-150	0.0	0.0	0.0
90-180	0.0	0.0	0.0
0-180	25672.9	95.1	100.0
Total Luminaire Efficiency = 95.10%			

* Calculations based on Extended Performance T8 lamps at 2,820 mean lumens.

Horizontal Footcandles at 2.5 Feet.

Actual results may vary depending on application conditions.

FLUORESCENT INDOOR





ULTRA STAR™ “S5 – SERIES” FLUORESCENT INDUSTRIAL LIGHTING

8 Foot– T5 X 2, 4 or 6 Lamp

APPLICATIONS

- High, 25 feet plus, narrow, 12 feet wide or less, stack aisle for warehouse, light industrial, commercial / retail areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS

- Unibody aluminum construction in .032 inch thick.
- Lampholder brackets secured to housing with machine screws adding strength.
- Ballast chamber vented for heat removal increasing ballast life.
- Suitable for chain hang or surface mounting.
- Ballast cover held in place with turn locks. No tools required for ballast access.
- Lampholders are injection molded rotating camlock design holding lamps firmly in place.
- Electronic ballast standard. T5 – HO, Program Start ballast, Rated class P.
- Listing –  /  listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES

- Instant Restrike
- Uplight Option
- Unibody Construction
- No Color Shift
- Improved Lumen Maintenance
- Higher CRI
- Improved Lumen Maintenance
- Occupancy Sensor and Battery Options Available
- 480 Volt Option
- Open Ventilated Construction

FLUORESCENT INDOOR

I

ORDERING NUMBER LOGIC

S5	8	4	5	0	N	R1N	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XXXX	X	XXX	X	X	X	XXX	X	XX	XX	X	X	XXX
S5 = T5	8 = 8'	2 = 2 4 = 4 6 = 6	5 = 54W	0 = No Lamp A = 4100K E = 5000K	N = No Uplight/ Narrow Distribution P = 5% Uplight Slots Note: Contact Factory for other uplight configurations		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 H = 347 to 480	AA = No Mounting Hardware AD = V-Hanger w/3' Chain AK = V-Hanger Only. (No Chain)	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3 Note: Stow Required for 480 Volt	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	J = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle Use) W = Wire Guard

1st Digit - Ballast Type
R = Electronic Ballast-Program Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
High Ballast Factor 1.00

3rd Digit - Type/Combination
B = 2/2/2 = (3) 2-Lamp Ballasts
H = 1 = (1) 2-Lamp Ballast
N = 4 = (1) 4-Lamp Ballast
K = 4/2 = (1) 4-Lamp Ballast, (1) 2-Lamp Ballast
G = 2/2 = (2) 2-Lamp Ballasts

SPECIAL NOTES:

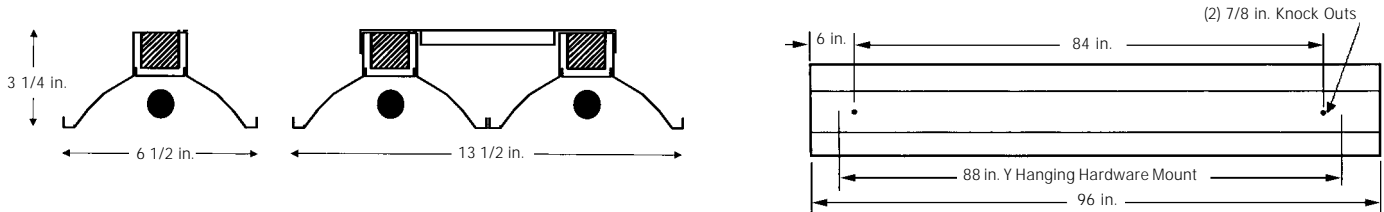
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option J Battery Back Up: 1 Lamp at 1150 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "S5 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

T5 - 2, 4 or 6 Lamp

FIXTURE DIMENSIONS



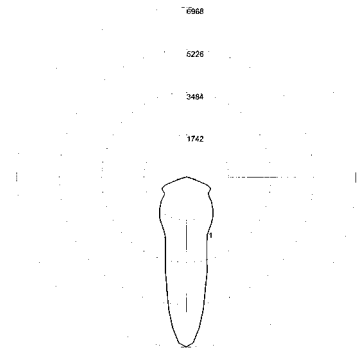
PHOTOMETRY

- (2) Lamp Curve # 35-452960
- (4) Lamp Curve # 35-452985

HIGH BAY REPLACEMENT GUIDE - QUICK REFERENCE

Fixture Spacing	(2) Lamp Fixture 117 Watts 8 Ft. Wide Stack Aisle			(4) Lamp Fixture Task* 234 Watts 8 Ft. Wide Stack Aisle		
	15	20	25	15	20	25
	Maintained Footcandles*			Maintained Footcandles*		
50' High	12	9	7	25	20	16
45' High	14	11	9	28	23	18
40' High	15	13	11	34	26	21
35' High	20	15	12	40	31	24
30' High	23	18	15	49	38	30
25' High	28	23	18	60	46	36

- * (4) lamp fixture calculated using two (2) lamp fixtures side by side.
- * Horizontal footcandles calculated at 2.5 ft. Reflectances ceiling .5, walls .3, floor .1
- * Calculations based on 4,500 lumens.
- Actual results may vary depending on application conditions.



(2) LAMP FIXTURE Spacing
Criteria along = 1.24
Spacing Criteria across = 0.48

FLUORESCENT INDOOR



ULTRA STAR™ "S8 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

8 Foot- T8 X 2, 4 or 6 Lamp



APPLICATIONS

- High, 25 foot plus, narrow, 12 feet wide or less, stack aisles in warehouses, light industrial, commercial/retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS:

- Unibody aluminum construction in .032 inch thick.
- Lampholder brackets secured to housing with machine screws adding strength.
- Ballast chamber vented for heat removal increasing ballast life.
- Suitable for chain hang or surface mounting.
- Ballast cover held in place with turn locks. No tools required for ballast access.
- Lampholders are injection molded rotating camlock design holding lamps firmly in place.
- Electronic ballast standard. T8 - GE Ultramax ballast, high power factor (1.15), instant start. Rated class P.
- Listing – (UL)/(UL) listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES:

- Instant restrike
- Uplight option
- Unibody construction
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open ventilated construction

FLUORESCENT INDOOR

I

ORDERING NUMBER LOGIC

S8	8	6	3	E	0	E1J	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	X	X	X	X	XXX	X	XX	XX	X	X	XXX
S8 = T8	8 = 8'	2 = 2 4 = 4 6 = 6	3 = 32W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight/Standard Distribution P = 5% Uplight Slots/Standard Distribution Note: Contact Factory for other uplight configurations.		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480	AA = No Mounting Hardware AD = V-Hanger w/3' Chain AK = V-Hanger Only. (No Chain)	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	C = Occupancy Sensor (For Open area) E = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle use) W = Wire Guard

1st Digit - Ballast Type
E = Electronic Ballast-Instant Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering
GE Ultramax High Ballast Factor 1.15
2 = UltraMax Normal Ballast Factor .87

3rd Digit - Type/Combination
H = 1 = (1) 2-Lamp Ballast
J = 3/3 = (2) 3-Lamp Ballasts
N = 4 = (1) 4-Lamp Ballast
G = 2/2 = (2) 2-Lamp Ballasts

SPECIAL NOTES:

1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option E Battery Backup: 1 Lamp at 550 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

GE Lighting Systems, Inc.
www.gelightingsystems.com

ULTRA STAR™ "S8-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

8 Foot T8 X 2, 4 or 6 Lamp

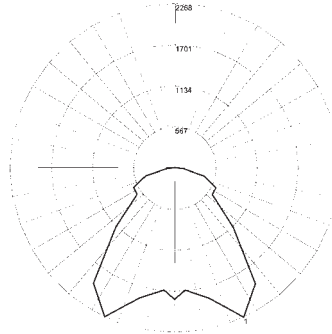
Standard Distribution
Shown

PHOTOMETRY

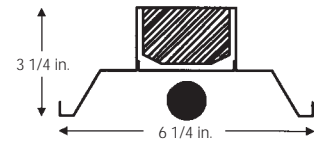
(2) Lamp Curve # 35-452987

2 – LAMP FIXTURE

Total Luminaire Efficiency = 95%
Spacing Criteria:
0 DEG. = 1.1 90 DEG. = 1.7



FIXTURE DIMENSIONS

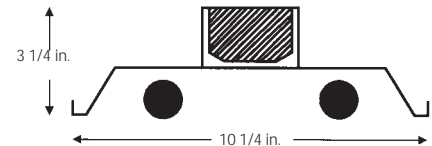
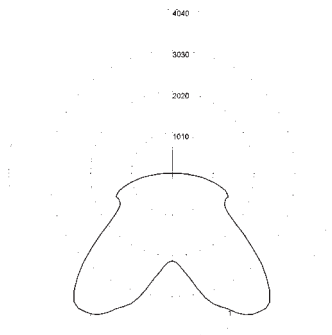


PHOTOMETRY

(4) Lamp Curve # 35-452961

4 – LAMP FIXTURE

Total Luminaire Efficiency = 92%
Spacing Criteria:
0 DEG. = 1.3 90 DEG. = 2.0

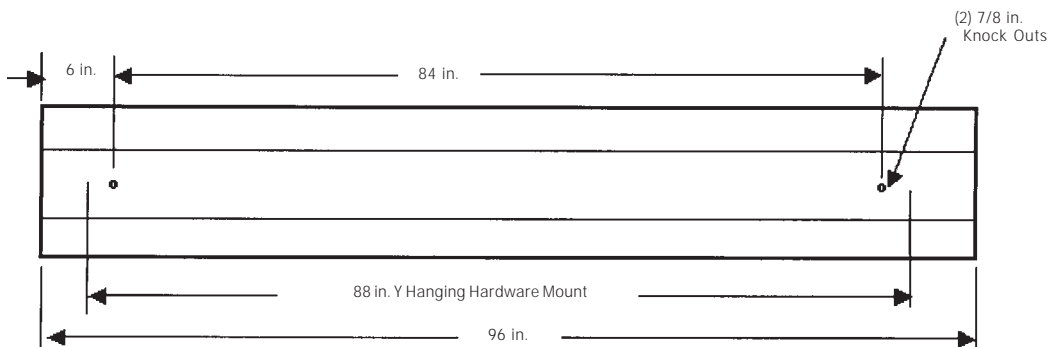
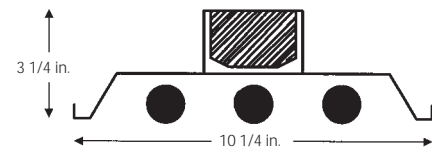
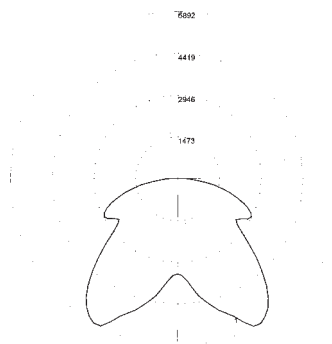


PHOTOMETRY

(6) Lamp Curve # 35-452965

6 – LAMP FIXTURE

Total Luminaire Efficiency = 92%
Spacing Criteria:
0 DEG. = 1.3 90 DEG. = 1.9



FLUORESCENT INDOOR

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Data subject to change without notice

ULTRA STAR™ "A8 – SERIES" FLUORESCENT INDUSTRIAL LIGHTING

8 Foot– T8 X 6 Lamp



APPLICATIONS

- High, 25 foot plus, narrow, 12 feet wide or less, stack aisles in warehouses, light industrial, commercial/retail and general areas where high efficiency, consistent light output, white light, color rendering, instant-on and lighting control may be required.

SPECIFICATIONS:

- Unibody construction in .032 inch thick.
- Heavy gauge steel lamp holder brackets are riveted to housing for strength and rigidity
- Suitable for chain hang or single point mounting
- Uplight slots available for ceiling illumination
- Ballast cover held in place with turn locks. No tools required for ballast access.
- Electronic ballast standard. T8 – GE Ultramax ballast, high power factor (1.15), instant start standard. Rated class P.
- Listing – / listed as fluorescent fixture suitable for dry or damp location.
- GE lamps shipped installed **when fixture ordered with lamps – see order logic to order with lamps included.**
- 95% reflective specular aluminum reflector material – MIRO IV™
- Recommended for 50 degree C. ambient environment on standard product. Contact factory regarding ambient rating with special options.

FEATURES:

- Instant restrike
- Uplight option
- Unibody construction
- No color shift
- Improved lumen maintenance
- Higher CRI
- Occupancy Sensor and battery options available
- 480 Volt option
- Open ventilated construction

FLUORESCENT INDOOR

1

ORDERING NUMBER LOGIC

A8	8	6	3	0	0	E1J	0	AD	00	0	A	XXX
PRODUCT IDENT	UNIT LENGTH	NUMBER OF LAMPS DOWN	LAMP WATTS	LAMP COLOR/TEMP	UPLIGHT SELECTION	BALLAST TYPE SELECTION	VOLTAGE	MOUNTING OPTIONS	CORD LENGTH	CORD CONDUCTOR	PLUG TYPE	OPTIONS
XX	X	X	X	X	X	XXX	X	XX	XX	X	X	XXX
A8 = T8	8 = 8'	6 = 6	3 = 32W	0 = No Lamp A = 4100K E = 5000K	0 = No Uplight P = 5% Uplight Slots Note: Contact Factory for other uplight configurations		0 = Univ Voltage (120 - 277V) Discrete Voltages: See Notes Below 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480	AA = No Mounting Hardware AD = V-Hanger w/3' Chain AK = V-Hanger Only. (No Chain)	00 = No Cord 03 = 3' 06 = 6' 08 = 8'	0 = None 3 = AWG 18-3 6 = Stow 16-3	A = No Plug Discrete Voltage must be specified when ordering following: B = NEMA Straight Plug 15 AMP C = NEMA Twistlock Plug 15 AMP E = NEMA Twistlock Plug 20 AMP	E = Emergency Battery Back-up. (Available only as 120 to 277 discrete voltage only) L = Occupancy Sensor (For Aisle use) W = Wire Guard

1st Digit - Ballast Type
E = Electronic Ballast-Instant Start
NOTE: For Dimming Ballast Contact Factory

2nd Digit - Ballast Factor
1 = Standard - Offering GE Ultramax High Ballast Factor 1.15
2 = UltraMax Normal Ballast Factor .87

3rd Digit - Type/Combination
J = (2) 3-Lamp Ballasts to Operate (6) Lamps
Contact Factory for different Lamp Ballast Combinations.

SPECIAL NOTES:

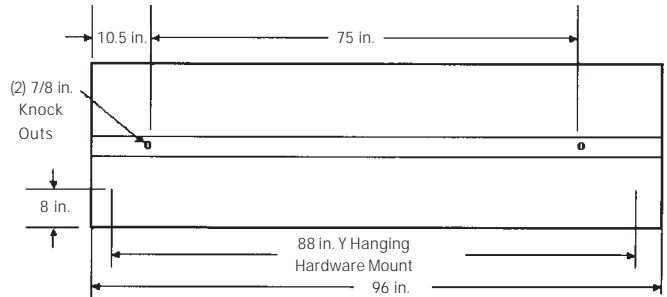
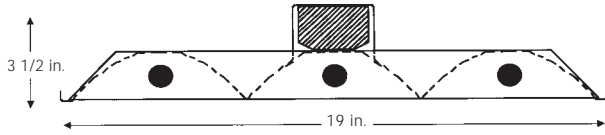
1. Occupancy sensor requires discrete voltage. Line voltage operation standard.
2. Cord and NEMA plug require discrete voltage.
3. Option E Battery Back up: 1 Lamp at 550 Lumens for 90 minutes. Discrete voltage 120 to 277 only.
4. Ballast supplier can vary for 480 volt fixtures.

■ NOTE: Shaded Logic indicates Standard Offering

ULTRA STAR™ "A8-SERIES" FLUORESCENT INDUSTRIAL LIGHTING

8 Foot – T8 X 6 Lamp

FIXTURE DIMENSIONS



PHOTOMETRY

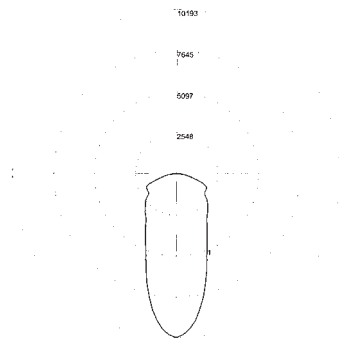
(6) Lamp Curve # 35-452955

HIGH BAY REPLACEMENT GUIDE - QUICK REFERENCE

Fixture Spacing	Example 9 Ft. Wide Stack Aisle			Example 6 Ft. Wide Stack Aisle		
	20	25	30	20	25	30
	Maintained Footcandles*			Maintained Footcandles*		
50' High	18	15	12	16	13	10
45' High	21	17	14	19	15	12
40' High	23	19	16	21	17	14
35' High	27	21	18	25	19	16
30' High	32	25	20	30	23	18
25' High	36	28	22	34	26	20

* Horizontal footcandles calculated at 2.5 ft.. Reflectances: ceiling .5, walls .3, floor .1
 * Calculations based on 2,915 mean lumens with Miro-4 reflector, ballast factor 1.15.
 Actual results may vary depending on application conditions
 Quick reference chart based on versions without Up-Light

90 DEG PLANE



TOTAL LUMINAIRE EFFICIENCY = 90.1%
 SPACING CRITERIA: 0 DEG = 1.2 90 DEG = .7

FLUORESCENT INDOOR



ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LENS TYPES AVAILABLE

- V Option
Patterned V Acrylic (F Series only)
- P Option
Patterned Flat Acrylic (F,M only)
- M Option
Clear Flat Acrylic (F,M only)



"V" Option
Patterned V Acrylic
(F Series only)



"P" Option
Patterned Flat Acrylic
(F,M Series only)



"M" Option
Clear Flat Acrylic
(F,M Series only)

WIREGUARDS (W OPTION)

- W Option
Wireguard & Chain Mount (F Series)
- W Option
Wireguard Ext. Mount (M,C Series)
- W Option
Wireguard Ext. Mount (E,A,S Series)



"W" Option
Wireguard Mount
(F Series)



"W" Option
Wireguard Ext. Mount
(M,C Series)



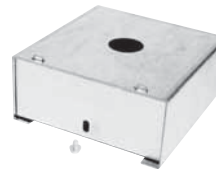
"W" Option
Wireguard Ext. Mount
(E,A,S Series)

MOUNTING OPTIONS

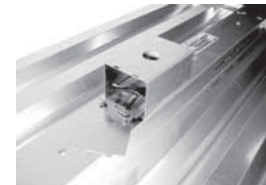
- AD Option
V Hanger & Chain Mount
- AB Option
3/4" Access Box
- AK
V Hanger only (no chain)



"AD" Option
V Hanger & Chain Mount



"AB" Option
Large Wiring Box
(F,M,C Series)



"AB" Option
Small Wiring Box
(E,A,S Series)

OCCUPANCY OPTIONS

- C Option
Occupancy Sensor (F,M,C Series)
- C Option
Occupancy Sensor (E,A,S Series)



"C" Option
Occupancy
Sensor
(F,M,C Series)



"C" Option
Occupancy
Sensor
(E,A,S Series)



"2" Option
Uplight
(F Series Two
Uplights)

UPLIGHT

- 2 Option
Two lamps up (F Series)
- P Option
5% Uplight slots (F,E,S,A Series)
(Not shown)
- O Option
No uplight

ACCESSORY ORDER INFORMATION

(When ordering separately)

Catalog Number	Description
XT-VCHAIN-FME4	Y hanger for "F", "M", "E" w/3ft Chain
XT-VCHAIN-S4	Y hanger for "S" w/3ft Chain
XT-Y-FME	Y hanger only "F", "M", "E"
XT-3PR-FM	Access box 3/4" pendant mount - "F", "M"
XT-3PR-ES	Access box 3/4" pendant mount - "E", "S"
XT-SDA-F4	Clear acrylic lens steel door frame "F"
XT-SDA-M4	Clear acrylic lens steel door frame "M"
XT-WG11-F4	Wireguard "F" 4 ft.
XT-WG11-S4	Wireguard "S" 4 ft.
XT-WG11-M4	Wireguard "M" 4 ft.
XT-WG11-C4	Wireguard "C" 4 ft.
XT-WG11-E44	Wireguard "E" 4 ft. - 4 lamp version
XT-WG11-E46	Wireguard "E" 4 ft. - 6 lamp version
XT-OCS-360	Occupancy Sensor For Open Areas - 360 deg
XT-OCS-AISLE	Occupancy Sensor For Aisle - Asymmetric

GE Lighting Systems, Inc.

www.gelighting.com

Hazardous Location Lighting

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HAZARDOUS
LOCATION LIGHTING

H

LOOK FOR
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LOCATION
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imagination at work

HAZARDOUS LOCATION LIGHTING INDEX

(For Adverse, Severe Duty and Hazardous Classifications)

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	Hazardous Classifications			H-4
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HAZARDOUS LOCATION LIGHTING



* These products have different ordering number logic for Candian UL (UL) applications. Contact factory for information, or refer to the appropriate product publication, as listed in this table.

SELECTION CONSIDERATIONS FOR HAZARDOUS LOCATION LUMINAIRES

TO SATISFY THE LIGHTING NEEDS OF AN AREA HAVING A HAZARDOUS, POTENTIALLY HAZARDOUS, OR AN ADVERSE ENVIRONMENT, THE OWNER, RESPONSIBLE INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION MUST HAVE CERTAIN KNOWLEDGE AND MUST USE THAT KNOWLEDGE TO DEFINE THE NEEDS OF THE AREA BEFORE SPECIFYING A LUMINAIRE.

Included in this knowledge should be a full understanding of National Electrical Code® (NEC®), National Fire Protection Association (NFPA), Factory Mutual (FM), Underwriters Laboratories Listings (UL Listing), National Electrical Manufacturers Association (NEMA), and other governing body codes and standards and testing procedures. Also, this knowledge must include an awareness and understanding of testing methods and local codes, the physical and chemical properties of the environments, and the testing procedures applicable to the application and product.

With this knowledge, a qualified individual can then begin to determine the proper code(s) and code requirements that a lighting system for a hazardous or adverse location must meet. Here's a step-by-step summary of certain considerations that the qualified individual should include when making the decision.

CONSIDER THE APPLICABLE CERTIFICATIONS/STANDARDS

Of all the certifications and standards from the organizations mentioned above, the most commonly used are UL Listings. When used in connection with the NEC Classifications of Hazardous Locations, the UL Listing is the key to specifying and selecting the correct luminaire for a hazardous or adverse location. Here is a summary of the tests required by applicable UL Listings and the NEMA 4X Rating.

COMPARISON OF TESTS REQUIRED BY UL

TEST	UL1598	UL1598 (WET LOCATIONS)	UL1598 (OUTDOOR SALT WATER)	UL844 NEC CLASS AND DIVISION				NEMA 4X
				CLASS I DIVISION1	CLASS I DIVISION2	CLASS II DIVISION1	CLASS II DIVISION2	
HEAT RUN—measures temperatures of ballast, capacitor, socket, customer wire.	X	X	X	X	X	X	X	
HEAT RUN—measures temperature of lamp.					X			
HEAT RUN—measures temperatures of all external surfaces: without dust with dust				X		X	X	
RAIN EXPOSURE—(Wet Locations)		X	X	X	X	X	X	
EXPLOSION PRESSURE—minimum of 15 explosions using vapor from Group(s) desired.				X				
FLAME PROPAGATION—minimum of 15 explosions using vapor from Group(s) desired.				X				
HYDROSTATIC—pressure of four(4) times max. measured explosion pressure.				X				
DUST PENETRATION—(magnesium dust). 30 hours with 6 heating cycles 10 hours with 2 heating cycles						X	X	
DUST BLANKET—(grain dust) measures temperatures of external surfaces.						X	X	
VIBRATION—35 hours				X	X	X	X	
GASKET ACCELERATED AGING—temperature and time equivalent to 50-year life.						X	X	
CORROSION RESISTANCE OF MATERIALS			X					
MOISTURE RESISTANCE—hose down			X					X
DUST BLAST OR ATOMIZED WATER								X
EXTERNAL ICING								X
SALT FOG—corrosion test			X					X

The various UL Listings and NEMA 4X rating cover the following:

- **UL1598—Standard for Safety for High Intensity Discharge Lighting Fixtures**—covers general use in ordinary locations.
- **UL1598, Suitable for Wet Locations**—is for fixtures suitable for installation in rain, locations subject to salt spray, and similar situations.
- **UL1598, Outdoor Salt Water**—requires all UL1598 testing plus other testing for many fixture classifications: Inside type fixtures, Inside dripproof-type fixtures, Inside recessed-type fixtures, Inside dripproof recessed-type fixtures, Outside-type fixtures (freshwater), and Outside-type fixtures (salt water).
- **UL844, Electric Lighting Fixtures for Hazardous Locations**—is used in conjunction with National Electrical Code Classes, Divisions, and Groups of atmospheres for the selection of fixtures for normally and not normally hazardous locations where volatile flammable liquids, flammable gases, and combustible materials may be present in the atmosphere. The **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE** defines the NEC Classes, Divisions, and Groups by Atmospheres and Temperatures.

NEMA 4X, Electric Lighting Fixtures for Installation Aboard Ship in Accordance with U.S. Coast Guard Electrical Regulations—indicates that luminaires provide protection from windblown dust and rain, splashing water, external icing, and hose-directed water.

For hazardous locations, the UL844 Listing is the key to luminaire selection and procedure as follows:

SELECTING UL844 LISTED LUMINAIRES

If the **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE** calls for the luminaire to be UL844 Listed, the selection process is critical. **THE CLASSIFICATION OF A GIVEN AREA AS TO CLASS, DIVISION, AND GROUP IS SOLELY THE JUDGEMENT OF THE OWNER, RESPONSIBLE INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION.** And the process of specifying a luminaire type, lamp wattage, lamp type, etc., is an exacting job that requires **THEM** to take the following steps:

- STEP 1.** Determine the normally hazardous or not normally hazardous atmosphere(s) present in the area to be lighted.
- STEP 2.** Use the information from STEP 1 and the **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE** to determine:
 - NEC Class, Division, and Group
 - Location of temperature (exterior and interior) measurement on the luminaire.
 - Limiting temperature value (if specified) in °C.
 - General type of GE luminaire suitable for the application.
- STEP 3.** Determine the maximum ambient temperature in the area to be lighted.
- STEP 4.** For NEC Class I, Division 1, Groups C & D, All Class II Divisions and Groups and All Class III Divisions: Determine the Limiting Value Temperature from the **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE**.
For NEC Class I, Division 2, Groups A, B, C, and D: Consult the **TABLE OF COMMONLY ENCOUNTERED HAZARDOUS MATERIALS** to determine the **AUTOIGNITION TEMPERATURES** for any materials that are normally or may be present in the atmosphere of the area to be lighted.

Note: National Electrical Code® and NEC® are Registered Trademarks of the National Fire Protection Association, Inc. Quincy, MA 02269.



SELECTION CONSIDERATIONS FOR HAZARDOUS LOCATION LUMINAIRES

STEP 5. Consult the **LUMINAIRE TEMPERATURE PROFILE DATA TABLES** to determine the maximum operating temperature of the luminaire that is UL844 listed for the appropriate NEC Class, Division, and Group. Also make sure that the temperature is measured at the appropriate location stipulated in the **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE** for the applicable NEC Class, Division, and Group.

The importance of this decision cannot be overstated and merits further clarification before proceeding to the next step.

For instance, for Class I, Division 1, All Groups and for All Class II Divisions, and Groups and All Class III Divisions, the maximum temperature, as indicated in the table by "Maximum exterior temp...", is measured on the exterior of the luminaire. The maximum temperature that a given combination of lamp wattage, optical configuration and ballast housing produces while operating in a specific ambient temperature environment **MUST BE LESS** than the Limiting Value specified for that Class, Division and Group.

For Class I, Division 2, Groups A, B, C, and D, the maximum temperature of the luminaire is measured inside the luminaire (usually on the lamp wall surface) as indicated in the table by "Maximum interior temp...". This is because the gases in the area could infiltrate the luminaire, contact the lamp wall, and could ignite or explode if their autoignition temperatures are below that of the lamp wall. These luminaires are not designed to contain the ignition and it could propagate out into the surrounding atmosphere.

THE OWNER, RESPONSIBLE INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION have the responsibility of selecting a luminaire that has a maximum operating temperature (measured at the appropriate location and in the specified ambient temperature of normal luminaire operation) that is lower than the lowest autoignition temperature of any combustible material in the atmosphere of the area being lighted. Note that different luminaire optical configurations have different maximum temperatures and this should be taken into consideration when making the luminaire selection.

STEP 6. Specify the luminaire type—including lamp type and wattage, optical configuration, and mounting arrangement—that meets the temperature requirements and NEC Class, Division, and Group restrictions; and is listed for that NEC Class.

Now determine the number of luminaires needed to produce the desired lighting level.

Here are some examples of how the OWNER, RESPONSIBLE INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION (the "Authority") can use the STEP-BY-STEP method to specify a luminaire having a UL844 listing for lighting a hazardous location.

EXAMPLE 1. LIGHT A STORAGE SHED CONTAINING PROPANE TANKS.

STEP 1. Because the propane is stored in closed containers and will not be used in the area, the Authority, absent other factors, might classify the area as "Not Normally Hazardous" under the NEC.

STEP 2. Given the Authority's classification, the area fits the NEC Class I, Division 2, Group D with a maximum ambient of 40°C and the maximum operating temperature is measured on the interior of the luminaire.
—GE H2 Filtr•Gard® luminaires are suitable

STEP 3. The maximum ambient temperature in the shed is 40°C.

STEP 4. Autoignition Temperature of Propane is 450°C

STEP 5. From the Luminaire Temperature Profile Data, the maximum luminaire operating temperature measured on the interior of the luminaire is Temperature Code T2/300c for 175 watt mercury in a large globe and guard (Type FG) and Temperature Code T2A/280c for 150 watt high pressure (HPS) in a large globe (Type FG).

STEP 6. Because the maximum interior temperature of the luminaire with applicable lamp type or wattage is below the autoignition temperature of propane, Filtr•Gard luminaire with a globe and guard and the reflector designated in the Luminaire Temperature Profile table might be specified for use in the storage building.

All that now needs to be done is to specifically select the lamp type, lamp wattage and optical configuration for the H2 Filtr•Gard luminaire that will light the area to the desired level in the most cost effective manner.

EXAMPLE 2. LIGHT A COVERED GASOLINE PUMPING AREA.

STEP 1. Because the gasoline is pumped in the area, it could be present in the atmosphere and therefore the Authority might classify the area as "Normally Hazardous" under the NEC.

STEP 2. Given the Authority's classification, the area fits the NEC Class I, Division 1, Group D with a maximum ambient of 40°C and the maximum operating temperature is measured on the exterior of the luminaire.

STEP 3. The maximum ambient temperature in the shed is 40°C. GE H9 Powr•Gard® luminaires are suitable

STEP 4. Note the Limiting Value from **SUMMARY OF HAZARDOUS ATMOSPHERES TABLE** is 280°C.

STEP 5. From the Luminaire Temperature Profile Data, the maximum luminaire operating temperature as measured on the exterior of the luminaire is 165°C (Temperature Code T3B) for 250 watt mercury in a globe and guard (Type JJ) with or without specific reflectors and 160°C (Temperature Code T3C) for 250 watt high pressure sodium (HPS) in a globe and guard (Type JJ) with or without specific reflectors.

STEP 6. Because the maximum exterior temperature of the luminaire with any applicable lamp type or wattage up to 250 watts is below Limiting Value, any Powr•Gard luminaire with up to 250 watt lamps and the reflector designated in the Luminaire Temperature Profile table can be specified for use in the pumping building.

All that needs to be done is to specifically select the lamp type, lamp wattage and optical configuration for the H9 Powr•Gard luminaire that will light the area to the desired level in the most cost effective manner.

SELECTING UL1598 LISTED AND NEMA 4X LUMINAIRES.

If an application calls for lighting systems with UL1598, UL1598 Suitable for Wet Locations, luminaire selection is relatively easy. Just look in this lighting catalog to see which luminaire has the appropriate listing or certification and place the order.

Where non-hazardous corrosive atmospheres are present, luminaires must meet UL1598 Outdoor Salt Water (formerly UL595) Listing and/or NEMA 4X Rating. Typical corrosive atmospheres can include: acids (nitric, hydrochloric, sulfuric, etc.), bases (soda caustic, caustic potash), gases (chlorine, sulfur dioxide, etc.), salts, and other adverse atmospheres such as steam, salt water, and dust which are common by-products of many chemical and manufacturing facilities such as refining, ceramic making, metal finishing, plating, fertilizer production, paper and pulp plants, ore conversion operations, etching, etc.

For these applications, a luminaire constructed of reinforced non-metallic materials having no exposed exterior metal surfaces is the best choice. Consider the GE Perma•Gard® luminaire, which combines these features and the appropriate UL1598 Listing and NEMA 4X Rating.



DEFINITION AND CLASSIFICATION OF HAZARDOUS LOCATION

WHAT CONSTITUTES A HAZARDOUS LOCATION?

The classification of a given area as to Class, Division, and Group is solely the judgment of **THE OWNER, INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION.**

Articles 500-517 of the National Electrical Code define, categorize and provide the basic ground rules of the application and installation of lighting fixtures in hazardous locations.

Hazardous locations are defined in terms of Class, Division and Group, per the NEC. The definition of each is as follows:

"CLASS I locations are those in which **flammable Gases or Vapors** are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures."

"CLASS II locations are those that are hazardous because of the presence of **Combustible Dust.**"

"CLASS III locations are those that are hazardous because of the presence of **easily ignitable Fibers or Flyings**, but in which such fibers or flyings are

not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures."

Each "CLASS" is further defined as either Division 1 or Division 2.

DIVISION 1 is an environment that is **Normally Hazardous.**

DIVISION 2 is an environment that is **Not Normally Hazardous.**





Each Division may be further classified according to the particular gas, vapor or dust, by defining the areas by groups, see table below.

Don't confuse UL844 with UL1598 which meets the standards for those locations which require **only** enclosed and gasketed products.

You can't readily differentiate between UL1598 and UL844 listed luminaires by examining the product. So how do you tell one from the other? **THE BEST WAY TO BE SURE OF A UL844 LISTING IS TO EXAMINE THE LABEL AND SEE THE WORDS "LISTED ELECTRIC LIGHTING FIXTURES FOR HAZARDOUS LOCATIONS" OR "LISTED ELECTRIC LIGHTING FIXTURES FOR HAZARDOUS LOCATIONS" IN CLOSE PROXIMITY TO THE CIRCULAR UL LOGO.**

UL844 IS THE ONLY UL STANDARD FOR HAZARDOUS LOCATION LIGHTING

SUMMARY OF HAZARDOUS ATMOSPHERES*

NEC CLASS	DIVISION	GROUP	TYPICAL ATMOSPHERE AND AUTOIGNITION TEMPERATURES	TEMPERATURE MEASURED	LIMITING VALUE	GETYPE ORDERING NUMBER
I GASES, VAPORS	1 Normally hazardous	A	Acetylene (305°C, 581°F)	Maximum exterior temperature in 40°C ambient. H8 is in 25°C ambient	280°C (536°F) and Articles 500-503 of NEC	Not Available
		B	Hydrogen (502°C, 986°F) manufactured gases containing more than 30% hydrogen (by volume)		280°C (566°F) and Articles 500-503 of NEC	
		C	ethylene (450°C, 842°F) cyclopropane (503°C, 938°F)		180°C (356°F) and Articles 500-503 of NEC	
		D	hexanes (225°C, 437 °F) butane (288°C, 550°F) propane (450°C, 842°F) acetone (465°C, 869°F) benzene (420°C, 788°F) gasoline (280-471°C, 536-880°F)		280°C (526°F) and Articles 500-503 of NEC	
	2** Not normally hazardous	A	Same as Division 1	Max interior temperature in 40°C ambient. PF4HandP54Hare in25°Cambient	Max temp of luminaire not to exceed the auto- ignition temp (°C) of gas or vapor involved. Ref. Articles 500-503 of NEC	
		B	Same as Division 1			
		C	Same as Division 1			
		D	Same as Division 1			
II COMBUSTIBLE DUSTS	1 Normally hazardous	E	Metal dust, including aluminum, magnesium, and their commercial alloys, and other metals of similarly hazardous characteristics	Max exterior temperature in 40°C ambient with a dust blanket. H8 is in 25°C ambient.	200°C (392°F) and Articles 500-503 of NEC	
		F	Carbon black, coal, coke dust		200°C (392°F) and Articles 500-503 of NEC	
		G	Flour, starch, grain dusts.		165°C (329°F) and Articles 500-503 of NEC	
	2** Not normally hazardous	G	Same as Division 1	Max exterior temp under conditions of use	165°C (329°F) and Articles 500-503 of NEC	
III EASILY IGNITIBLE FIBERS AND FLYINGS	1, 2		Same as Class II, Division 2	Same as Class II, Div. 2	165°C (329°F) and Articles 500-503 of NEC	

* Information for this table is extracted from the National Electrical Code (NEC), Article 500, and from the National Fire Prevention Association's "National Electrical Code Handbook," (reference to NFPA 497M).

** Not normally hazardous means that the gases or dusts are not normally present.

The classification of a given area as to Class, Division, and Group is solely the judgement of THE OWNER, INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION.

COMMONLY ENCOUNTERED HAZARDOUS MATERIALS

As a guide for THE OWNER, RESPONSIBLE INSURANCE COMPANY, AND THE AUTHORITY HAVING JURISDICTION in determining the proper NEC Group classification for a flammable gas, to use the following table is reprinted from the "Manual for Classification of Gases, Vapors and Dusts for Electrical Equipment in Hazardous (Classified) Locations" NFPA 497M and lists the Autoignition Temperature (AIT) of gases and vapors of liquids with Flash Points below 100°F (37°C). It also lists Group Classifications for the gases as determined by tests (indicated by *) or based on analogy with tested materials and on chemical structure. While the classification of the untested materials represents the best judgement of two groups of experts, it is conceivable that the Group Classification of any particular untested material may be incorrect.

In certain instances, therefore, it may be advisable to submit untested materials to a qualified testing laboratory for verification of the assigned Group Classification.

NOTE: The temperature and Group Classifications are subject to change. Consult the latest edition of NFPA 497M for the most recent information.

NOTE: Reprinted with permission from NFPA 497M, Classification of Class I Hazardous Locations for Electrical Installations, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the NFPA on the referenced subject which is represented only by the standard in its entirety.

GROUP CLASSIFICATION AND AUTOIGNITION TEMPERATURE (AIT) OF SELECTED FLAMMABLE GASES AND VAPORS OF LIQUIDS HAVING FLASH POINTS BELOW 100°F (37.8°C).

MATERIAL	GROUP	AIT		MATERIAL	GROUP	AIT		MATERIAL	GROUP	AIT	
		°F	°C			°F	°C			°F	°C
ACETALDEHYDE	C*	347	175	ETHYL ACETATE	D*	800	427	METHYL ETHYL KETONE	D*	759	404
ACETONE	D*	869	465	ETHYL ACRYLATE (INHIBITED)	D*	702	372	METHYL FORMAL	C*	460	238
ACETONITRILE	D	975	524	ETHYLAMINE	D*	725	385	METHYL FORMATE	D	840	449
ACETYLENE	A*	581	305	ETHYL BENZENE	D	810	432	METHYL ISOBUTYL KETONE	D*	840	449
ACROLEIN (INHIBITED)	B(C)* ¹	455	235	ETHYL CHLORIDE	D	966	519	METHYL ISOCYANATE	D	994	534
ACRYLONITRILE	D*	898	481	ETHYLENE	C*	842	450	METHYL MERCAPTAN	C	-	-
ALLYL ALCOHOL	C*	713	378	ETHYLENEDIAMINE	D*	725	385	METHYL METHACRYLATE	D	792	422
ALLYL CHLORIDE	D	905	485	ETHYLENE DICHLORIDE	D*	775	413	2-METHYL-1-PROPANOL	D*	780	416
AMMONIA	D**	928	498	ETHYLENIMINE	C*	608	320	2-METHYL-2-PROPANOL	D*	892	478
N-AMYL ACETATE	D	680	360	ETHYLENE OXIDE	B(C)* ¹	804	429	MONOETHYL HYDRAZINE	C	382	194
SEC-AMYL ACETATE	D	-	-	ETHYL FORMATE	D	851	455	NAPHTHA (PETROLEUM)	D**	550	288
BENZENE	D*	928	498	ETHYL MERCAPTAN	C*	572	300	NITROETHANE	C	778	414
1,3-BUTADIENE	B(D)* ¹	788	420	N-ETHYL MORPHOLINE	C	-	-	NITROMETHANE	C	785	418
BUTANE	D*	550	288	FORMALDEHYDE (GAS)	B	795	429	1-NITROPROPANE	C	789	421
1-BUTANOL	D*	650	343	GASOLINE	D*	53880	20471	2-NITROPROPANE	C*	802	428
2-BUTANOL	D*	761	405	HEPTANE	D*	399	204	NONANE	D	401	205
N-BUTYL ACETATE	D*	790	421	HEPTENE	D	500	260	NONENE	D	-	-
ISO-BUTYL ACETATE	D*	790	421	HEXANE	D*	437	225	OCTANE	D*	403	206
SEC-BUTYL ACETATE	D	-	-	2-HEXANONE	D	795	424	OCTENE	D	446	230
BUTYLAMINE	D	594	312	HEXENES	D	473	245	PENTANE	D*	470	243
BUTYLENE	D	725	385	HYDROGEN	B*	968	520	1-PENTANOL	D*	572	300
BUTYL MERCAPTAN	C	-	-	HYDROGEN CYANIDE	C*	1000	538	2-PENTANONE	D	846	452
N-BUTYRALDEHYDE	C*	425	218	HYDROGEN SELENIDE	C	-	-	1-PENTENE	D	527	275
CARBON DISULFIDE	-**	194	90	HYDROGEN SULFIDE	C*	500	260	PROPANE	D*	842	450
CARBON MONOXIDE	C*	1128	609	ISOAMYL ACETATE	D	680	360	1-PROPANOL	D*	775	413
CHLOROENZENE	D	1099	593	ISOBUTYL ACRYLATE	D	800	427	2-PROPANOL	D*	750	399
CHLOROPRENE	D	-	-	ISOBUTYRALDEHYDE	C	385	196	PROPRIONALDEHYDE	C	405	207
CROTONALDEHYDE	C*	450	232	ISOPRENE	D*	428	220	N-PROPYL ACETATE	D	842	450
CUMENE	D	795	424	ISOPROPYL ACETATE	D	860	460	PROPYLENE	D*	851	455
CYCLOHEXANE	D	473	245	ISOPROPYLAMINE	D	756	402	PROPYLENE DICHLORIDE	D	1035	557
CYCLOHEXENE	D	471	244	ISOPROPYL ETHER	D*	830	443	PROPYLENE OXIDE	B(C)* ¹	840	449
CYCLOPROPANE	D*	938	503	ISOPROPYLGLYCIDYLETHER	C	-	-	N-PROPYL ETHER	C*	419	215
1,1-DICHLOROETHANE	D	820	438	LIQUEFIEDPETROLEUMGAS	D	761-842	405-450	PROPYL NITRATE	B*	347	175
1,2-DICHLOROETHYLENE	D	860	460	MANUFACTURED GAS (CONTAINING				PYRIDINE	D*	900	482
1,3-DICHLOROPROPENE	D	-	-	MORE THAN 30% H BY VOLUME)	B*	-	-	STYRENE	D*	914	490
DICYCLOPENTADIENE	C	937	503	MESITYL OXIDE	D*	652	344	TERTAHYDROFURAN	C*	610	321
DIETHYL ETHER	C*	320	160	METHANE	D*	999	537	TOLUENE	D*	896	480
DIETHYLAMINE	C*	594	312	METHANOL	D*	725	385	TRIETHYLAMINE	C*	-	-
DI-ISOBUTYLENE	D*	736	391	METHYL ACETATE	D	850	454	TURPENTINE	D	488	253
DI-ISOPROPYLAMINE	C	600	316	METHYLACETYLENE	C*	-	-	UNSYMMETRICALDIMETHYL			
DIMETHYLAMINE	C	752	400	METHYLACETYLENE-PROPADIENE				HYDRAZINE (UDMH)	C*	480	249
1,4-DIOXANE	C	356	180	(STABILIZED)	C	-	-	VALERALDEHYDE	C	432	222
DI-N-PROPYLAMINE	C	570	299	METHYL ACRYLATE	D	875	468	VINYL ACETATE	D*	756	402
EPICHLOROHYDRIN	C*	772	411	METHYLAMINE	D	806	430	VINYL CHLORIDE	D*	882	472
ETHANE	D*	882	472	METHYLCYCLOHEXANE	D	482	250	VINYLDIENE CHLORIDE	D	1058	570
ETHANOL	D*	685	363	METHYL ETHER	C*	662	350	XYLENES	D*	867-984	464-529

NOTES TO TABLE

- *Material has been classified by test.
- 1 If equipment is isolated by sealing out conduit 1/2-in. (12.7mm) or larger, in accordance with Article 501-5(a) of NFPA 70, *National Electrical Code*, equipment for the group classification shown in a parenthesis is permitted.
- 2 For Classification of areas involving ammonia, see *Safety Code for Mechanical Refrigeration*, ANSI/ASHRAE 15, and *Safety Requirements for the Storage and Handling of Anhydrous Ammonia*, ANSI/CGA G2.1
- 3 Certain chemicals may have characteristics that require safeguards beyond those required for any of the above groups.

Carbon Disulfide is one of these chemicals because of its low autoignition temperature and small joint clearance to arrest flame propagation.

4 Petroleum Naptha is a saturated hydrocarbon mixture whose boiling range is 20° to 135°C. It is also known as benzine, ligroin, petroleum ether, and naptha.

References: Autoignition temperatures listed above are the lowest value for each material as listed in NFPA 325M, *Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids*, or as reported in an article by Hilado, C.J. and Clark, S.W., in *Chemical Engineering*, September 4, 1972.



TYPICAL ADVERSE LOCATION ENVIRONMENTS

In many industries, luminaires must operate under conditions that are considered "Adverse"—corrosive, wet, dirty, etc.—which do not necessarily fall into the normally hazardous or not normally hazardous categories defined by NEC. While a UL844 Listed luminaire might be applied, it must also be resistant to corrosive actions of the environments commonly found in industry, many of which are listed below.

ADVERSE ENVIRONMENT	SOURCE/PROCESS/USES	TYPICAL INDUSTRIES
ACIDS		
Hydrochloric (Muriatic)	Solder fluxes Cleaning metals, tile, brickwork Making glue, gelatin, dextrose, chlorides	Metal manufacture Metal finishing Brick and ceramics
Nitric	Manufacturing of explosives, dyes, fertilizers, plastics, nitrates Metal finishing and coating	Explosives Textile Fertilizer Plastics Metal finishing
Sulfuric	Gas drying agent Petroleum purification Making glass, explosives, inks, dyes, fertilizers, batteries Metal cleaning and finishing	Petroleum Plating Fertilizer Battery Metal finishing
Phosphoric	Making fertilizers, detergents Metal finishing Water softeners Cleaning agents Drying agents	Fertilizer Food Metal finishing
Hydrofluoric	Pickle baths Etching solutions Catalysts Cleaning sand from castings Insecticides	Metal finishing Glass Petroleum Lighting products
BASES		
Sodium or Potassium Hydroxide	Lye, soda lye Chemical production Cleaners Refining Soap	Metal finishing Chemical Pulp and paper Petroleum Food
GASES		
Chlorine	Paper and textile bleaching Manufacturing of chloroform, sulfur chloride, dyes, medicines, cleaning solvents Organic chlorine compounds Water purification Metal extraction (tin, zinc)	Pulp and paper Rubber Chemical Pharmaceutical Metal Petroleum
Nitrogen dioxide Sulfur dioxide	See Nitric Acid Making Sulfuric Acid Bleaches, disinfectants, refrigerants Mold growth prevention	Chemical Pulp and paper Food
SALTS		
Chlorides	Soldering fluids (Zinc chloride) Floor and wall coverings (Magnesium chloride) Batteries (Ammonium chloride) Soldering Pastes (Ammonium chloride) Coal dust control (Calcium chloride) Ferric, Sodium, Nickel, Potassium chlorides	Metal processing Battery Coal processing
OTHER ADVERSE ENVIRONMENTS		
Steam Salt water Dust		Utility Chemical

For these and many other adverse environments, luminaires have been designed and constructed with no exposed exterior metal parts (housings, reflectors, hinges, fasteners, etc.). Materials like Fiberglass Reinforced Polyester (FRP), Polypropylene, and Fiberglass Reinforced Polybutyleneterephthalate (PBT) have replaced die-cast aluminum and other metal parts to provide

better corrosion resistance in a broader range of adverse environments. The GE Perma•Gard® luminaire with an FRP housing, glass globe, polypropylene reflectors, acrylic or polycarbonate refractors, and PBT globe guard has no exposed metal parts and carries appropriate UL Listings and NEMA 4X rating for use in many adverse locations described above.



TEMPERATURE PROFILES

In the following Temperature Profile Data Charts, when a column is headed "Tested Lamp Envelope Surface Temperature in °C @ 40°C Maximum Ambient," the data (in degrees Celsius) was obtained in a 40°C ambient under normal gravity conditions.


In the following Temperature Profile Data Charts, when a column is headed "Maximum Luminaire External Surface Temperature in °C," the data (in degrees Celsius) was obtained under a dust blanket at 40°C ambient under normal gravity conditions.

In the following Temperature Profile Data Charts when a T code is used, this chart explains the temperature maximum (in degrees Celsius).

TEMPERATURE CODE

	IDENTIFICATION NUMBER	DEGREES C	IDENTIFICATION NUMBER	DEGREES C
MAXIMUM TEMPERATURE RANGE IDENTIFICATION NUMBER	T1	450	T3A	180
	T2	300	T3B	165
	T2A	280	T3C	160
	T2B	260	T4	135
	T2C	230	T4A	120
	T2D	215	T5	100
	T3	200	T6	85

POWR•GARD® H9 LUMINAIRE TEMPERATURE PROFILE DATA



OPTICAL CONFIGURATION

Data applies to Globe and Guard with or without Standard Dome or Angle Dome Reflector (Class I and II), Deep Dome (Class I only).


MOUNTINGS

Pendant	Angle Stanchion	Floodlight
Flexible Pendant		
Wall		
Ceiling		
Straight Stanchion		

CLASSIFICATIONS

Class I, Division 1	Class II, Division 1	Class I, Division 1	Class II, Division 1	Class I, Division 1
Groups C,D	Groups E,F,G	Groups C,D	Groups E,F,G	Groups C,D

+ Other OPTICAL CONFIGURATIONS listed



QUARTZ OPTION

Automatically switched quartz. Available only with lamp types and wattages shown below. Maximum ambient is 40°C. Limited to 150-watt quartz lamp. Cannot be used for Paint Spray area.

OPTICAL CONFIGURATION

Data applies to Globe and Guard with or without Standard Dome or Angle Dome Reflector (Class I and II), Deep Dome (Class I only).

MOUNTINGS

Pendant	Straight Stanchion
Flexible Pendant	Angle Stanchion
Wall	
Ceiling	
Straight Stanchion	

CLASSIFICATIONS

Class I, Division 1	Class II, Division 1
Groups C,D	Groups E,F,G

+ Other OPTICAL CONFIGURATIONS listed

Lamp Wattage	Max Ambient °C	Temp Code	Temp Code	Temp Code	Temp Code	Temp Code
HIGH PRESSURE SODIUM (HPS)						
50	55	T5	T4	T5	T4	T4
70	55	T5	T4	T5	T4	T4
100	55	T5	T4	T5	T4	T4
150	55	T4A	T4	T4A	T4	T4
200	55	T3C	T3	T3C	N/A	T3C
250	55	T3C	T3	T3C	N/A	T3C
400	40	T3*	N/A	T3A*	N/A	T3A*
METAL HALIDE						
100	55	T4A	T4A	T4A	T4A	T4
175	55	T4	T3B	T4	T3B	T3B*
250	55	T3C	N/A	T3C	N/A	T3B*
400	40	T3A	N/A	T3A	N/A	T3*
MERCURY						
100	55	T4	T3B	T4	T3B	T3A*
250	55	T3B*	N/A	T3B*	N/A	T3A*
400	40	T2D*	N/A	T2D*	N/A	T2C*

NOTE: *CAUTION: Operating temperatures exceed safe temperatures for some Group C materials. To prevent fire or explosion install only as intended.

LIMITATIONS

H9 luminaires are UL Listed for Class I, Division 1, Group C (180°C max) and Group D (280°C max) luminaire surface temperature. H9 luminaires are not listed for Groups A and B.

WARNING—Do not use GE Multi-Vapor® II MXR175 lamps in explosion proof or hazardous duty fixtures because they have higher bulb temperatures than standard 175-watt metal halide lamps and may exceed the temperature rating of these fixture types.

H8 HAZARDOUS LOCATION INCANDESCENT LUMINAIRE

YOU MUST USE TEMPERATURE PROFILE DATA TO PROPERLY SELECT LUMINAIRE

UL844



TEMPERATURE PROFILE (25°C AMBIENT) DATA APPLIES TO ALL MOUNTINGS

Classification	Group	Maximum Wattage			Temp Code
		No Reflector	Standard Reflector	Angle Reflector	
Class I, Division 1	C, D	300	300	300	T3C
Class I, Division 1, 2	D (Paint Spray)	75	N/A	N/A	T4A
Class II, Division 1	E, F	200	150	200	T3
Class II, Division 1	E, F, G	100	N/A	150	T3C
Class II, Division 2	G	100	N/A	150	T3C

NOTE: N/A=Not Applicable

HAZARDOUS LOCATION LIGHTING



FILTR•GARD® H2 AND H2U LUMINAIRE TEMPERATURE PROFILE DATA

OPTICAL CONFIGURATION							
Large Globe and Guard (Type FG) (with or without Standard Dome or Angle Dome Reflector) 250 Watts Maximum							
MOUNTINGS							
All Mounting Arrangements		Useable with all H2 Mounting Arrangements except NOT FOR ANGLE STANCHION mounting unless following conditions are met: For Class II and Class III, Divisions 1 and 2, angle stanchion can be used with globes in combination with 50-, 70- and 100-watt High Pressure Sodium light source only. Temperature code is T3C except with deep dome (see data) with small or large globe. No other High Intensity Discharge (HID) light source can be used with angle stanchion and globe for this classification.					
CLASSIFICATIONS							
Class I, Division 2				Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; and Class III, Divisions 1, 2			
Groups A, B, C, D				Groups E, F		Group G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code
HIGH PRESSURE SODIUM (HPS)							
50	T3A	T3	T3	160	T3C	160	T3C
70	T3A	T3	T3	160	T3C	160	T3C
100	T2D	T2C	T2C	160	T3C	160	T3C
150	T2A	T2	T2	200	T3	N/A	N/A
250	T1	N/A	N/A	N/A	N/A	N/A	N/A
METAL HALIDE & PULSE METAL HALIDE							
100	T2A	N/A	N/A	200	T3	N/A	N/A
175	T2A	N/A	N/A	200	T3	N/A	N/A
250	T1	N/A	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MERCURY							
100	T2B	T2A	T2A	160	T3C	160	T3C
250	T1	N/A	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OPTICAL CONFIGURATION							
Small Globe and Guard (Type GG) (with or without Standard Dome or Angle Dome Reflector) 175 Watts Maximum							
MOUNTINGS							
All Mounting Arrangements		Useable with all H2 Mounting Arrangements except NOT FOR ANGLE STANCHION mounting unless following conditions are met: For Class II and Class III, Divisions 1 and 2, angle stanchion can be used with globes in combination with 50-, 70- and 100-watt High Pressure Sodium light source only. Temperature code is T3C except with deep dome (see data) with small or large globe. No other High Intensity Discharge (HID) light source can be used with angle stanchion and globe for this classification.					
CLASSIFICATIONS							
Class I, Division 2				Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; and Class III, Divisions 1, 2			
Groups A, B, C, D				Groups E, F		Group G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code
HIGH PRESSURE SODIUM (HPS)							
50	T3A	T3	T3	160	T3C	160	T3C
70	T3A	T3	T3	160	T3C	160	T3C
100	T2B	T2C	T2C	160	T3C	160	T3C
150	T2A	T2	T2	200	T3	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A
METAL HALIDE & PULSE METAL HALIDE							
100	T2	N/A	N/A	N/A	N/A	N/A	N/A
175	T2	N/A	N/A	N/A	N/A	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MERCURY							
100	T2B	T2A	T2A	160	T3C	160	T3C
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A	N/A	N/A


OPTICAL CONFIGURATION			
Large Globe and Guard (Type FG) (with Deep Dome Reflector) 250 Watts Maximum			
MOUNTINGS			
All Mounting Arrangements			
CLASSIFICATIONS			
Class I, Division 2		Class II, Division 1	
Groups A, B, C, D		Groups E, F	
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code
HIGH PRESSURE SODIUM (HPS)			
50	T3C	200	T3
70	T3	200	T3
100	T2B	200	T3
150	T2B	200	T3
250	T1	N/A	N/A
METAL HALIDE & PULSE METAL HALIDE			
100	T2	N/A	N/A
175	T2	N/A	N/A
250	T1	N/A	N/A
400	N/A	N/A	N/A
MERCURY			
100	T2B	N/A	N/A
250	T1	N/A	N/A
400	N/A	N/A	N/A

OPTICAL CONFIGURATION			
Small Globe and Guard (Type GG) (with Deep Dome Reflector) 250 Watts Maximum			
MOUNTINGS			
All Mounting Arrangements			
CLASSIFICATIONS			
Class I, Division 2		Class II, Division 1	
Groups A, B, C, D		Groups E, F	
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code
HIGH PRESSURE SODIUM (HPS)			
50	T3C	200	T3
70	T3	200	T3
100	T2B	200	T3
150	T2B	200	T3
250	N/A	N/A	N/A
METAL HALIDE & PULSE METAL HALIDE			
100	T2	N/A	N/A
175	T2	N/A	N/A
250	T1	N/A	N/A
400	N/A	N/A	N/A
MERCURY			
100	T2B	N/A	N/A
250	T1	N/A	N/A
400	N/A	N/A	N/A

* Standard max Ambient Temp is 40°C — for 55°C or 65°C, contact factory.




FILTR•GARD® H2 AND H2U LUMINAIRE TEMPERATURE PROFILE DATA

OPTICAL CONFIGURATION					
	8-in. (203mm) Glass Refractor and Guard (Type V5G and V2G) 175W max				
	MOUNTINGS				
	All Mounting Arrangements				
	CLASSIFICATIONS				
	Class I, Division 2			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; & Class III, Divisions 1, 2	
	Groups A, B, C, D			Groups E, F, G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code

HIGH PRESSURE SODIUM (HPS)					
50	T3B	T3A	T3	160	T3C
70	T3B	T3A	T3	160	T3C
100	T3	T2D	T2D	160	T3C
150	T2B	T2A	T2A	160	T3C
250	N/A	N/A	N/A	N/A	N/A

METAL HALIDE & PULSE METAL HALIDE					
100	T2B	N/A	N/A	160	T3C
175	T2B	N/A	N/A	160	T3C
250	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A


MERCURY					
100	T2C	T2B	T2B	160	T3C
250	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A

OPTICAL CONFIGURATION					
	12-in. (305mm) Glass Refractor and Guard (Type R5G and R2G) 400W max				
	MOUNTINGS				
	All Mounting Arrangements				
	CLASSIFICATIONS				
	Class I, Division 2			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; & Class III, Divisions 1, 2	
	Groups A, B, C, D			Groups E, F, G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code

HIGH PRESSURE SODIUM (HPS)					
50	T3B	T3A	T3	160	T3C
70	T3B	T3A	T3	160	T3C
100	T3	T2D	T2D	160	T3C
150	T2B	T2A	T2A	160	T3C
250	T1	N/A	N/A	160	T3C
400	T1	N/A	N/A	160	T3C

METAL HALIDE & PULSE METAL HALIDE					
100	T2B	N/A	N/A	160	T3C
175	T2B	N/A	N/A	160	T3C
250	T2A	N/A	N/A	160	T3C
400	T2A	N/A	N/A	160	T3C


MERCURY					
100	T2C	T2B	T2B	160	T3C
250	T1	N/A	N/A	160	T3C
400	T1	N/A	N/A	160	T3C

OPTICAL CONFIGURATION					
	Universal Refractor with Guard (Type W5G) 175 Watts Maximum				
	MOUNTINGS				
	All Mounting Arrangements				
	CLASSIFICATIONS				
	Class I, Division 2			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; & Class III, Divisions 1, 2	
	Groups A, B, C, D			Groups E, F, G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code

HIGH PRESSURE SODIUM (HPS)					
50	T2D	T3	T3	100	T5
70	T2D	T3	T3	100	T5
100	T2D	T2C	T2C	100	T5
150	T2A	T2	T2	160	T3C
250	N/A	N/A	N/A	N/A	N/A

METAL HALIDE & PULSE METAL HALIDE					
100	T2A	N/A	N/A	160	T3C
175	T2A	N/A	N/A	160	T3C
250	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A

MERCURY					
100	T2B	T2A	T2A	120	T4A
250	N/A	N/A	N/A	N/A	N/A
400	N/A	N/A	N/A	N/A	N/A

OPTICAL CONFIGURATION					
	ALGLAS® finished Enclosed Reflector and Guard (Type EG) 400 Watt Max				
	MOUNTINGS				
	All Mounting Arrangements				
	CLASSIFICATIONS				
	Class I, Division 2			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; & Class III, Divisions 1, 2	
	Groups A, B, C, D			Groups E, F, G	
Lamp Wattage	Max Ambient 40°C Temp Code	Max* Ambient 55°C Temp Code	Max* Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code

HIGH PRESSURE SODIUM (HPS)					
50	T3B	T3A	T3	160	T3C
70	T3B	T3A	T3	160	T3C
100	T3	T2D	T2D	160	T3C
150	T2B	T2A	T2A	160	T3C
250	T1	N/A	N/A	160	T3C
400	T1	N/A	N/A	160	T3C

METAL HALIDE & PULSE METAL HALIDE					
100	T2B	N/A	N/A	160	T3C
175	T2B	N/A	N/A	160	T3C
250	T2A	N/A	N/A	160	T3C
400	T2	N/A	N/A	160	T3C


MERCURY					
100	T2D	T2B	T2A	160	T3C
250	T1	N/A	N/A	160	T3C
400	T1	N/A	N/A	160	T3C

N/A = Not Applicable

* Standard max Ambient Temp is 40°C — for 55°C or 65°C, contact factory.



FILTR•GARD® H2 AND H2U LUMINAIRE TEMPERATURE PROFILE DATA

OPTICAL CONFIGURATIONS		OPTICAL CONFIGURATIONS	
	Acrylic or Polycarbonate 12-inch (305mm) Refractor Type V (A5G, L5G) and Type II (A2G, L2G)	Acrylic or Polycarbonate 12-inch (305mm) Refractor Type V (A5G, L5G) and Type II (A2G, L2G)	
	MOUNTINGS	MOUNTINGS	
	All Mounting Arrangements	All Mounting Arrangements	
	CLASSIFICATIONS	CLASSIFICATIONS	
	Class I, Division 2, Groups A, B, C, D	Class II, Division 2, Group G	
	GROUPS A, B, C, D	GROUP G	
Lamp Wattage	Max Amb 40°C Temp Code	Max Luminaire External Surface Temp °C	Max Amb 40°C Temp Code
HIGH PRESSURE SODIUM (HPS)		HIGH PRESSURE SODIUM (HPS)	
50	T2C	120	T4A
70	T2C	120	T4A
100	T2C	120	T4A
150	T2C	N/A	N/A
MERCURY		MERCURY	
100	T2C	120	T4A

OPTICAL CONFIGURATIONS
Acrylic or Polycarbonate 12-inch (305mm) Refractor Type V (A5G, L5G) and Type II (A2G, L2G)
MOUNTINGS
All Mounting Arrangements
CLASSIFICATIONS
Non-Hazardous Areas– UL1598 Suitable for Wet Locations
PARAMETERS FOR USE
In non-classified areas these refractors may be used with high intensity discharge (HID) lamps up to 150 watts maximum.

WARNING—Do not use GE Multi-Vapor® II MXR175 lamps in explosion proof or hazardous duty fixtures because they have higher bulb temperatures than standard 175-watt metal halide lamps and may exceed the temperature rating of these fixture types.


LIMITATIONS

Under the appropriate conditions, H2 and H2U luminaires may be used in a Class I, Division 2 location as follows:

H2 and H2U Filtr•Gard® luminaires are suitable for use when, under normal conditions, the maximum lamp temperature does not exceed the ignition temperature of the

gas or vapor present. H2 and H2U luminaires are UL Listed for Class I, Division 2 and comply with NEC Article 501-9(b)(2) as “tested and found incapable of igniting the gas or vapor if the ignition temperature is not exceeded”.

OPTION—AUTOMATICALLY SWITCHED QUARTZ*

		Available for Class II, Division 1 and 2 and Class III Only				
		OPTICAL CONFIGURATIONS		OPTICAL CONFIGURATIONS		
		8-inch (203mm) glass refractor (V5G and V2G)		12-inch (305mm) glass refractor and guard (R5G and R2G)		
		MOUNTINGS		MOUNTINGS		
		All mountings except low profile		All mountings except low profile		
		CLASSIFICATIONS		CLASSIFICATIONS		
		Class II, Division 1, Groups E, F, G Class II, Division 2, Group G Class III		Class II, Division 1, Groups E, F, G Class II, Division 2, Group G Class III		
		GROUPS E, F, G		GROUPS E, F, G		
Lamp Wattage	Max Amb °C	Maximum Luminaire External Surface Temperature in °C	Temp Code	Max Amb °C	Maximum Luminaire External Surface Temperature in °C	Temp Code
HIGH PRESSURE SODIUM (HPS)		HIGH PRESSURE SODIUM (HPS)		HIGH PRESSURE SODIUM (HPS)		
50	40	160	T3C	40	160	T3C
70	40	160	T3C	40	160	T3C
100	40	160	T3C	40	160	T3C
150	N/A	N/A	N/A	40	165	T3B
250	N/A	N/A	N/A	40	165	T3B
400	N/A	N/A	N/A	40	165	T3B
METAL HALIDE & PULSE METAL HALIDE		METAL HALIDE & PULSE METAL HALIDE		METAL HALIDE & PULSE METAL HALIDE		
175	N/A	N/A	N/A	40	165	T3B
250	N/A	N/A	N/A	40	165	T3B
400	N/A	N/A	N/A	40	165	T3B
MERCURY		MERCURY		MERCURY		
100	N/A	N/A	N/A	40	165	T3B
250	N/A	N/A	N/A	40	165	T3B
400	N/A	N/A	N/A	40	165	T3B

CLASSIFICATIONS
Non-Hazardous Areas—UL1598 Listed Suitable for Wet Locations
OPTICAL CONFIGURATIONS
 Small Globe with Guard H2000-GG
 Large Globe with Guard H2000-FG
 Small Refractor with Guard H2000-V5G, H2000-V2G
 Large Refractor with Guard H2000-R5G, H2000-R2G
 Industrial Reflector with Guard H2000-EG
MOUNTINGS
All mountings except low profile
PARAMETERS FOR USE

- Small Globe with Guard H2000-GG can be used up to 175 watts HID
- Large Globe with Guard H2000-FG can be used up to 250 watts HID
- Small Refractors (8-inch)(203mm) with Guard H2000-V5G and H2000-V2G can be used up to 175 watts HID
- Large Refractor (12-inch)(305mm) with Guard H2000-R5G and H2000-R2G, and Industrial Reflector with Guard H2000-EG can be used up to 400 watts HID

*LIMITATIONS—AUTOMATICALLY SWITCHED QUARTZ

- 40°C Maximum Ambient
- Cannot use low profile mounting
- 150 watt maximum quartz with HID wattage 50–250
- 250 watt maximum quartz with HID wattage 400

- With automatically switched quartz, some ballast types are not available depending on voltages, wattages and lamp type. We will use the ballast type available. If a certain type of ballast is requested by the customer, check the factory as we may not have that type available for automatically switched quartz.


N/A = Not Applicable


GE Lighting Systems, Inc.
www.gelighting.com

HAZARDOUS LOCATION LIGHTING



MINI•GARD™ LUMINAIRE TEMPERATURE PROFILE DATA

OPTICAL CONFIGURATION									
Small Globe and Guard (Type GG) (with or without Standard Dome, Angle Dome or Deep Dome Reflector)									
									
MOUNTINGS									
All Mounting Arrangements									
CLASSIFICATIONS									
Class I, Division 2 (Tested Lamp Envelope Surface Temperature)			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; and Class III				SIMULTANEOUS PRESENCE		
Groups A, B, C, D			Groups E, F		Group G		Class I, Division 2 (Tested Lamp Envelope Surface Temperature)		Class II, Division 1 or Class II, Division 2
Lamp Wattage	Max Ambient 40°C Temp Code	Max Ambient 55°C Temp Code	Max Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code	Max Ambient 40°C Temp Code	
HIGH PRESSURE SODIUM (HPS)									
50	T2C	T2C	T2C	165	T3B	165	T3B	T2	Groups E,F,G Groups E,F,G Groups E,F,G Groups E,F
70	T2C	T2C	T2C	165	T3B	165	T3B	T2	
100	T2A	T2A	T2A	165	T3B	165	T3B	T2	
150	T1	T1	N/A	200	T3	N/A	N/A	T1	
METAL HALIDE									
70	T2B	T2B	T2B	160	T3C	160	T3C	T2A	Groups E,F,G Groups E,F,G Groups E,F
100	T2B	T2B	N/A	160	T3C	160	T3C	T2A	
175	T1	N/A	N/A	200	T3	N/A	N/A	T1	

OPTICAL CONFIGURATION									
8-in. (203mm) Glass Refractor and Guard (Type V5G and V2G)									
									
MOUNTINGS									
All Mounting Arrangements									
CLASSIFICATIONS									
Class I, Division 2 (Tested Lamp Envelope Surface Temperature)			Class II, Division 1, Groups E, F, G; Class II, Division 2, Group G; & Class III, Divisions 1, 2				SIMULTANEOUS PRESENCE		
Groups A, B, C, D			Groups E, F, G		Groups A, B, C, D		Groups		
Lamp Wattage	Max Ambient 40°C Temp Code	Max Ambient 55°C Temp Code	Max Ambient 65°C Temp Code	Maximum Luminaire External Surface Temp (°C)	Max Ambient 40°C Temp Code	Max Ambient 40°C Temp Code	Max Ambient 40°C Temp Code		
HIGH PRESSURE SODIUM (HPS)									
50	T2D	T2D	T2C	135	T4	T2			Groups E,F,G Groups E,F,G Groups E,F,G Groups E,F,G
70	T2D	T2D	T2C	135	T4	T2			
100	T2A	T2A	T2A	135	T4	T2			
150	T2	T2	N/A	135	T4	T1			
METAL HALIDE									
70	T2C	T2C	T2C	160	T3C	T2A			Groups E,F,G Groups E,F,G Groups E,F,G
100	T2B	T2B	N/A	160	T3C	T2A			
175	T1	N/A	N/A	160	T3C	T1			

N/A = Not available

LIMITATIONS

Under the appropriate conditions, MGH and MGHU Mini•Gard luminaires may be used in a Class I, Division 2 location as follows:

Mini•Gard luminaires are suitable for use when, under normal conditions, the maximum lamp temperature does

not exceed the ignition temperature of the gas or vapor present. Mini•Gard luminaires are UL Listed for Class I, Division 2 and comply with NEC Article 501-9(b)(2) as "tested and found incapable of igniting the gas or vapor if the ignition temperature is not exceeded".

WARNING—Do not use GE Multi-Vapor® II MXR175 lamps in explosion proof or hazardous duty fixtures because they have higher bulb temperatures than standard 175-watt metal halide lamps and may exceed the temperature rating of these fixture types.



MINI•GARD™ LUMINAIRE TEMPERATURE PROFILE DATA

OPTION—AUTOMATICALLY SWITCHED QUARTZ*



Available for Class II, Division 1 and 2 and Class III Only

OPTICAL CONFIGURATIONS

8-inch (203mm) glass refractor (V5G and V2G)

MOUNTINGS

All mountings

CLASSIFICATIONS

Class II, Division 1, Groups E, F, G
Class II, Division 2, Group G
Class III

GROUPS E, F, G

Lamp Wattage	Max Amb °C	Maximum Luminaire External Surface Temperature in °C	Temp Code
HIGH PRESSURE SODIUM (HPS)			
50	40	160	T3C
70	40	160	T3C
100	40	160	T3C
150	40	160	T3C

* LIMITATIONS—AUTOMATICALLY SWITCHED QUARTZ

1. 40°C Maximum Ambient
2. With automatically switched quartz, some ballast types are not available depending on voltages, wattages and lamp type. We will use the ballast type available. If a certain type of ballast is requested by the customer, check the factory as we may not have that type available for automatically switched quartz. (Use one 100 watt single-ended DC [Double Contact] bayonet base lamp.)

HAZARDOUS LOCATION LIGHTING



MINI•GARD FLUORESCENT LUMINAIRE TEMPERATURE PROFILE DATA

OPTICAL CONFIGURATIONS

Large globe and guard (type FG) with or without standard dome, angle dome, or deep dome.

MOUNTINGS

All mounting arrangements

CLASSIFICATIONS

Class I, Division 2, Groups A, B, C, D (Tested Lamp Envelope Surface Temp)

Class II, Divisions 1 and 2, Groups E, F, G

SIMULTANEOUS PRESENCE

Class I, Division 2, Groups A, B, C, D (Tested Lamp Envelope Surface Temp)

Class II, Divisions 1 and 2, Groups E, F, G

GROUPS A, B, C, D

GROUPS E, F, G


Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Luminaire External Surface Temperature (°C)	Maximum Ambient 40°C Temperature Code	Maximum Ambient 40°C Temperature Code
FLUORESCENT				
13	T2D	85	T6	T2D
26	T2D	85	T6	T2D
52	T2D	85	T6	T2D

TEMPERATURE CODE


	IDENTIFICATION NUMBER	DEGREES C	IDENTIFICATION NUMBER	DEGREES C
MAXIMUM TEMPERATURE RANGE IDENTIFICATION NUMBER	T1	450	T3A	180
	T2	300	T3B	165
	T2A	280	T3C	160
	T2B	260	T4	135
	T2C	230	T4A	120
	T2D	215	T5	100
	T3	200	T6	85

PERMA•GARD® AND H4 FLUORESCENT LUMINAIRES, P-154 AND PF-400® POWERFLOOD® FLOODLIGHTS TEMPERATURE PROFILE DATA


PERMA•GARD LUMINAIRE

OPTICAL CONFIGURATION		
		
Low Bay Refractor, 15-inch (381mm) (LB5)		
MOUNTINGS		
Rigid Conduit, Vertical Suspension		
CLASSIFICATIONS		
Class I, Division 2		
GROUPS A,B,C,D		
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Ambient 55°C Temperature Code
HIGH PRESSURE SODIUM (HPS)		
50	T2C	N/A
70	T2C	N/A
100	T2C	N/A
150	T2C	N/A
METAL HALIDE		
175	N/A	N/A
MERCURY		
100	T2B	T2B
175	T2B	N/A


PERMA•GARD LUMINAIRE

OPTICAL CONFIGURATION		
		
Angled Low Bay Refractor, 15-inch (381mm) (ALB5)		
MOUNTINGS		
Rigid Conduit, Vertical Suspension		
CLASSIFICATIONS		
Class I, Division 2		
GROUPS A,B,C,D		
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Ambient 55°C Temperature Code
HIGH PRESSURE SODIUM (HPS)		
50	T2C	N/A
70	T2C	N/A
100	T2C	N/A
150	T2C	N/A
METAL HALIDE		
175	N/A	N/A
MERCURY		
100	T2B	T2B
175	T2B	N/A


PERMA•GARD LUMINAIRE

OPTICAL CONFIGURATION		
		
Globe with/without guard (GN, GG) and/or external reflector (DR5, AR5); Low Bay refractor, 15-inch (381mm) (LB5); Low Bay refractor, 22-inch (559mm) (TA2); Angled Low Bay refractor, 15-inch (381mm) (ALB5)		
MOUNTINGS		
Rigid Conduit, Vertical Suspension		
CLASSIFICATIONS		
UL1598 listed; UL1598, Suitable for Wet Locations; UL1598, Outdoor Salt Water		
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Ambient 55°C Temperature Code
HIGH PRESSURE SODIUM (HPS)		
50	150 Watts Maximum	
70	150 Watts Maximum	
100	150 Watts Maximum	
150	150 Watts Maximum	
METAL HALIDE		
175	175 Watts Maximum (Except ALB5 & LB5)	
MERCURY		
100	175 Watts Maximum	
175	175 Watts Maximum	


PERMA•GARD LUMINAIRE

OPTICAL CONFIGURATION		
		
Small Globe (GN) NOTE: Temperature ratings the same for globe with/without guard and/or external reflector		
MOUNTINGS		
Rigid Conduit, Vertical Suspension		
CLASSIFICATIONS		
Class I, Division 2		
GROUPS A,B,C,D		
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Ambient 55°C Temperature Code
HIGH PRESSURE SODIUM (HPS)		
50	T3A	N/A
70	T3	N/A
100	T2C	N/A
150	T2A	N/A
METAL HALIDE		
175	T2	N/A
MERCURY		
100	T2	T2
175	T2	N/A


PERMA•GARD LUMINAIRE

OPTICAL CONFIGURATION		
		
Low Bay Refractor, 22-inch (559mm) (TA2)		
MOUNTINGS		
Rigid Conduit, Vertical Suspension		
CLASSIFICATIONS		
Class I, Division 2		
GROUPS A,B,C,D		
Lamp Wattage	Maximum Ambient 40°C Temperature Code	Maximum Ambient 55°C Temperature Code
HIGH PRESSURE SODIUM (HPS)		
50	T2C	N/A
70	T2C	N/A
100	T2C	N/A
150	T2C	N/A
METAL HALIDE		
175	T2B	N/A
MERCURY		
100	T2B	N/A
175	T2B	N/A

P-154 POWERFLOOD FLOODLIGHT (For Hazardous Locations)

OPTICAL CONFIGURATION		
		
Optical assembly with heat and shock resistant tempered glass		
CLASSIFICATIONS		
Class I, Division 2		
Lamp Wattage	Ambient 25°C Lamp °C	Temp Code
HIGH PRESSURE SODIUM (HPS)		
70	276	T2A
100	276	T2A
150	276	T2A
200	329	T1
250	329	T1
400	450	T1
METAL HALIDE		
175	322	T1
250	381	T1
400	465	—

FOOD-PRO™ II LUMINAIRE

OPTICAL CONFIGURATION			
			
Enclosed Acrylic or Enclosed Polycarbonate			
MOUNTINGS			
All mountings			
CLASSIFICATIONS			
Class II, Division 2, Groups F, G			
Class III			
GROUPS F, G			
Lamp Wattage	Max Amb °C	Maximum Luminaire External Surface Temperature in °C	Temp Code
HIGH PRESSURE SODIUM (HPS)			
400	40	120	T4A
METAL HALIDE & PULSE METAL HALIDE (PMH)			
250	40	120	T4A
320	40	120	T4A
400	40	120	T4A

H4 FLUORESCENT LUMINAIRE TEMPERATURE PROFILE DATA 40° C

Class I Division 1 Groups C and D	Class II Division 1 Groups E, F and G	Class III	Simultaneous Presence Class I and II
T6	T6	T6	T6

TEMPERATURE CODE

IDENTIFICATION NUMBER	DEGREES C	IDENTIFICATION NUMBER	DEGREES C
T1	450	T3A	180
T2	300	T3B	165
T2A	280	T3C	160
T2B	260	T4	135
T2C	230	T4A	120
T2D	215	T5	100
T3	200	T6	85



HAZARDOUS LOCATION LIGHTING





POWR•GARD® H9 LUMINAIRE

UL844 – UL 1598 Outdoor Salt Water (Optional)

APPLICATIONS

- For adverse, severe duty and hazardous classifications (HID lamps) *Suitable for wet locations.*

SUSPENDED VERSION SPECIFICATION FEATURES

- 1598 Outdoor Salt Water (formerly UL595) Listed (OPTIONAL)
- 844 Listed
 - Class I, Division 1, Groups C and D (For paint spray area fixture, see Options)
 - Class II, Division 1, Groups E, F and G
- Standard construction is IP65.
- Maxi-Lux® guard
- ALGLAS® finish on external accessory reflectors
- Acme threads
- Electro-epoxidized gray paint finish
- NEMA decal
- Mounting adapter and safety disconnect
- Low copper aluminum alloys
- Computer-designed globe
- Mogul base socket
- Multiple mounting arrangements
- Shipped as components: Ballast and Optical, Mounting, Accessories

ORDERING NUMBER LOGIC

H9	1	15S	3P	JJ	F
PRODUCT IDENT	VOLTAGE	WATTAGE/LIGHT SOURCE/ BALLAST TYPE	MOUNTING (See Page H-7 for limitations)	OPTICAL	OPTIONS
XX	X	XXX	XX	XX	XXX
H9 = Powr•Gard H9 Luminaire CAUTION: See Temperature Profile Data on Page H-7 for limitations. Standard: Lamp not included.	60 Hz* 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 *For 50 Hz, contact factory	See Ballast Selection Table 05L = 50W/HPS/HPF/Reactor* 40L = 400W/HPS/HPF Reactor 07S = 70W/HPS Mag-Reg 10S = 100W/HPS Mag-Reg 15S = 150W/HPS Mag-Reg 20S = 200W/HPS Autoreg 25S = 250W/HPS Autoreg 07K = 70W/HPS/HPF Reactor Hot Restart 10K = 100W/HPS/HPF Reactor Hot Restart 15K = 150W(55V)HPS/HPF Reactor Hot Restart 10M = 100W MH/HPF Lag (Med Base) 17M = 175W/MH/Autoreg 25M = 250W/MH/Autoreg 40M = 400W/MH/Autoreg 10C = 100W/Merc-Reg 17C = 175W/Merc/Merc-Reg 25C = 250W/Merc/Autoreg 40C = 400W/Merc/Autoreg Standard: Lamp not included. NOTE: *120 Volt only	SUSPENDED VERSION ONLY HH = No mounting included 3C = 3/4-in. Ceiling 3F = 3/4-in. Flexible pendant* 3P = 3/4-in. Rigid Pendant 3W = 3/4-in. Wall 4C = 1-in. Ceiling 4F = 1-in. Flexible pendant* 4P = 1-in. Rigid Pendant 4W = 1-in. Wall 5J = 1-1/4-in. Angle stanchion** 5S = 1-1/4-in. Straight stanchion NOTE: *Non-rigid support such as swivel joint. Ballast housing is counterweighted to hang straight. Mounting component furnished is standard pendant (3P or 4P). ORDER BY FIXTURE ORDERING NUMBER LOGIC SUCH AS H9115S3FJJ. ** For MH, a universal burning lamp must be used. FLOODLIGHT ONLY 3T = Cable connector 3/4-in. and Trunnion** 4T = Cable connector 1-in. and Trunnion** NOTE: Must be aimed below horizontal	See Optical Eligibility and Photometric Selection Table JJ = Globe with guard JN = Globe without guard	F = Fusing—(Not available with multivolt or UL1598 Outdoor Salt Water units.) Q = Time Delay Automatically Switched Quartz is available in certain ratings. See Temperature Profile for availability and temperature profile and limitations. NOTE: Maximum Ambient 40°C NOTE: 150 watt maximum quartz lamp HID paint spray area fixture with 50, 100 watt HPS, 100 watt mercury and metal halide (all voltages). Fixture nameplate contains wording "Suitable for locations having deposits of readily combustible paint residues." NOTE: Not available with Automatically Switched Quartz or floodlight. U = UL1598 Outdoor Salt Water/ UL844

BALLAST SELECTION TABLE*

Maximum ambient temperature is 55°C unless otherwise indicated.

CANADIAN NOTES:
Use Power-Gard C9 Luminaire. Reference publication
LSP-1115(Can)

Wattage	Light Source	Ballast Type Voltage					
		Multivolt	120	208	240	277	480
50	HPS	L	L	N/A	N/A	N/A	N/A
70, 100	HPS	L	K,L,S	K,L,S	K,L,S	K,L,S	K,L,S
150 (55V)	HPS	K,L	K,L,S	K,L,S	K,L,S	K,L,S	K,L,S
200	HPS	N/A	S	S	S	S	S
250	HPS	S	S	S	S	S	S
400	HPS	L	L (40°C)	L (40°C)	L (40°C)	L (40°C)	L (40°C)
100	MH	M**	M**	M**	M**	M**	M**
175	MH	M	M	M	M	M	M
250	MH	M	M	M	M	M	M
400	MH	M	M (40°C)	M (40°C)	M (40°C)	M (40°C)	M (40°C)
100	Merc	C	C	C	C	C	C
250	Merc	N/A	C	C	C	C	C
400	Merc	N/A	C (40°C)	C (40°C)	C (40°C)	C (40°C)	C (40°C)

*Ballast Type—

C = Mercury, Reg (Autoreg 250W)

K = Hot Restart (HPF Reactor Type)

L = High Pressure Sodium HPF Reactor and Lag

M = Metal Halide, Autoreg

S = High Pressure Sodium Mag-Reg or Autoreg

N/A = Not Available

**100W MH is HPF Lag

GE Lighting Systems, Inc.



www.gelightingssystem.com



POWR•GARD® H9 LUMINAIRE

UL844 — UL 1598 Outdoor Salt Water (Optional)

FLOODLIGHT SPECIFICATION FEATURES

-  1598 Outdoor Salt Water Marine (formerly UL595) Listed (OPTIONAL)
-  844 Listed
 - Class I, Division 1, Groups C and D
- Maxi-Lux® guard
- ALGLAS® finish on external accessory reflectors
- Acme threads
- Electro-epoxidized gray paint finish
- NEMA decal
- Cable connector and safety disconnect
- Low copper aluminum alloys
- Computer-designed globe
- Mogul base socket
- Adjustable trunnion with integral degree marker
- Shipped as components: Ballast and Optical, Mounting, Accessories

DATA

See Dimensions Pages for approximate Net Weight.
Add weight for each component to get total luminaire weight.

OPTICAL ELIGIBILITY AND PHOTOMETRIC SELECTION TABLE

Photometric curve number 35-17 - - - - All light sources are clear unless otherwise indicated. Before using, imperative to check Temperature Profile information on page H-7 to properly match Optical to Classification.

	UL844	70-150W HPS	200-400W HPS	100W, 175W, 250W MH	400W MH	100 Merc	250W Merc	400W Merc (Coated)
Globe and guard (JJ)	X	6423	6453	6415	6435	6429	6409	6441
Globe and guard (JJ) and dome reflector (H9000-001)	X	6424	6452	6417	6436	6430	6410	6442
Globe and guard (JJ) and angle dome reflector (H9000-002)	X	6421	6456	6445 for 100W, 175W 6419 for 250W	6433	9142 for 100W, 9129 for 175W	6412	6439
Globe and guard (JJ) and deep dome reflector (H9000-006)	X	7102	7035	7060	7053	9143 for 100W 9128 for 175W	9126	9127
Powr•Gard Floodlight Luminaire Globe and guard (JJ) and deep dome reflector (H9000-006)	X	C/F	7075	C/F	N/A	C/F	C/F	C/F
Angle Stanchion (5J) with globe and guard (JJ)	X	6621	9148	6627	6459	6479	9146	6465
Angle Stanchion (5J) with globe and guard (JJ) and dome reflector (H9000-001)	X	6622	6492	6628	6461	6480	6486	6467
Angle Stanchion (5J) with globe and guard (JJ) and angle dome reflector (H9000-002)	X	6625	9147	6630	6463	6483	9145	6469

NOTE: C/F = Contact factory
NOTE: N/A = Not Available

DIMENSIONS

See Pages H-16 and H-17.

NOTES

You must use temperature profile data to properly select luminaire. See Page H-7.

REFERENCES

See Pages H-7 for Temperature Profiles and Limitations.
See Page H-38 for start of Accessories.
See Page H-43 for Component Ordering Logic.
See Pages H-44 for Explanation of Options and Other Terms Used.



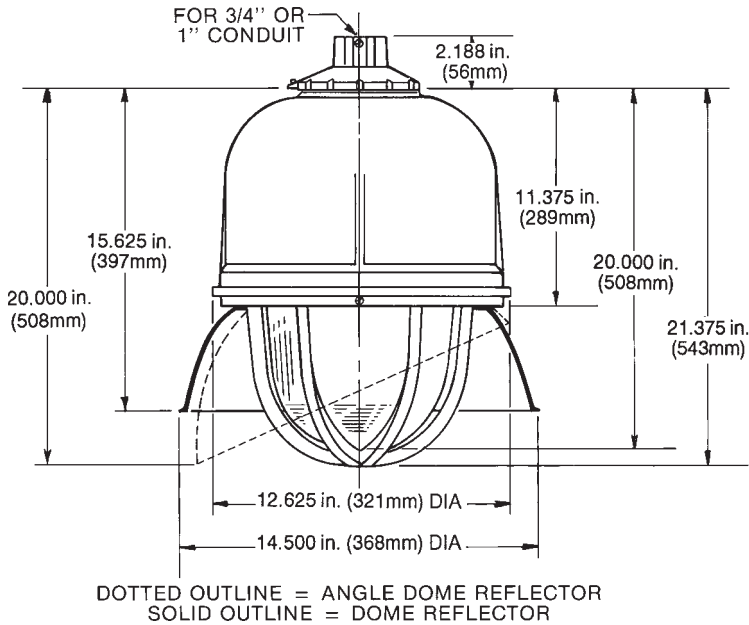
POWR•GARD® H9 LUMINAIRE

UL844 – UL 1598 Outdoor Salt Water (Optional)

YOU MUST USE TEMPERATURE PROFILE DATA
TO PROPERLY SELECT LUMINAIRE

FIXTURE DIMENSIONS

LUMINAIRE



BALLAST

Wattage	Approx Net Weight (lbs)	Approx Net Weight (kgs)
50	14.5	7
70	14.5-23.5	7-11
100	15.5-22.5	7-10
150 (55V)	14.5-24.5	7-11
100	17.5	8
175	17.5-19.5	8-9
200	25.5	12
250	20.6-26.5	9-12
400	19.5-26.5	9-12

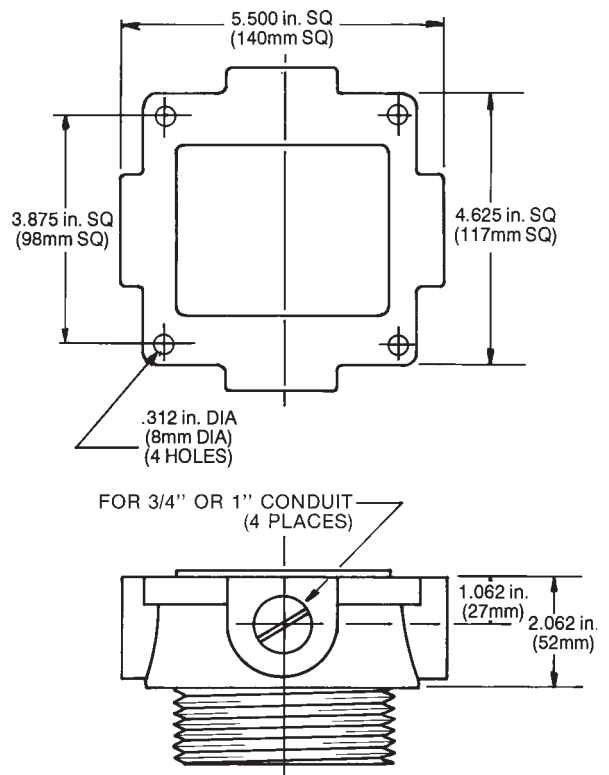
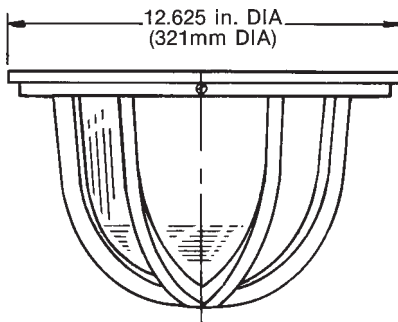
NOTE: Does not include mountings or optics.

MOUNTINGS

CEILING 3/4-INCH=3C 1-INCH=4C	Approximate Net Weight	3.3 lbs	1 kg
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GLOBE

WITH GUARD=JJ	WITHOUT GUARD=JN	Approximate Net Weight	14.5 lbs	7 kgs
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POWR-GARD HAZARDOUS LOCATION LIGHTING



POWR•GARD® H9 LUMINAIRE
 UL844 — UL 1598 Outdoor Salt Water (Optional)

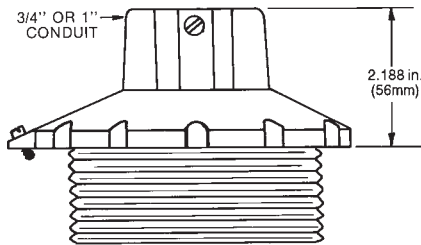
**YOU MUST USE TEMPERATURE PROFILE DATA
 TO PROPERLY SELECT LUMINAIRE**

FIXTURE DIMENSIONS

MOUNTINGS

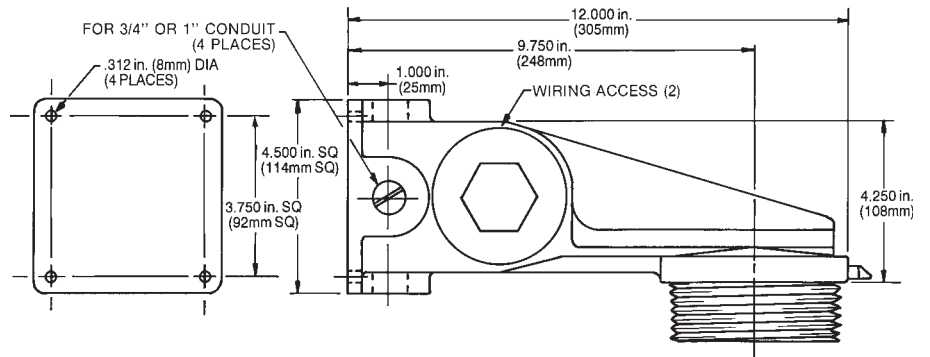
PENDANT AND FLEXIBLE PENDANT 3/4-inch=3F or 3P
 1-inch=4F or 4P

Approximate Net Weight	2.0 lbs	0.9 kgs
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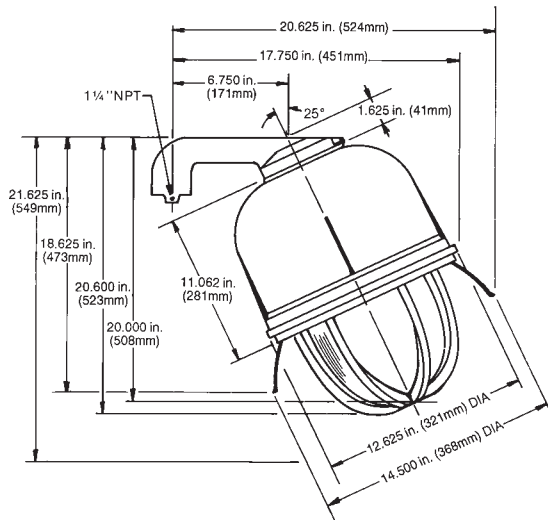
WALL 3/4-inch=3W
 1-inch=4W

Approximate Net Weight	6.4 lbs	2.4 kgs
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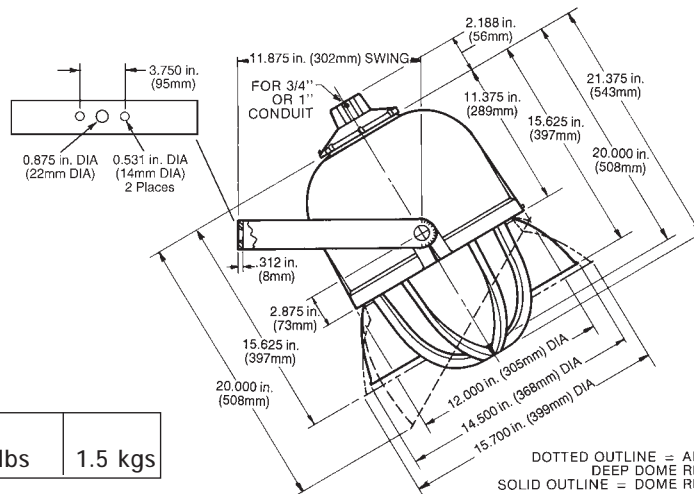
ANGLE STANCHION 1-1/4-inch=5J

Approximate Net Weight	3.8 lbs	1.4 kgs
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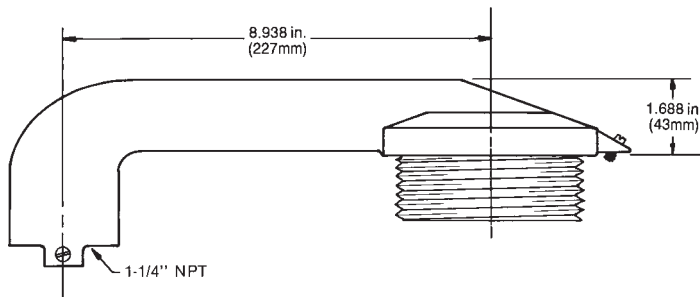
FLOODLIGHT TRUNNION 3/4-inch=3T
 1-inch=4T

Approximate Net Weight	8.5 lbs	3.2 kgs
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STRAIGHT STANCHION 1-1/4-inch=5S

Approximate Net Weight	3.9 lbs	1.5 kgs
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POWR-GARD HAZARDOUS LOCATION LIGHTING



DOTTED OUTLINE = ANGLE AND DEEP DOME REFLECTOR
 SOLID OUTLINE = DOME REFLECTOR

H4 FLUORESCENT LUMINAIRE FOR USE IN HAZARDOUS LOCATIONS

UL844, UL 1598 Outdoor Salt Water, NEMA 3, 4X, 7CD, 9EFG



APPLICATIONS

- For hazardous locations where ignitable gases, vapors, dust and combustible paint residues are present

SPECIFICATION FEATURES

- 1598 Outdoor Salt Water Listed (formerly UL595)
- 844 Listed
- Class I, Division 1, Groups C and D, suitable for paint spray booth
- Class II, Division 1, Groups E, F and G
- Simultaneous Presence, Class I and II, Division 1
- Meets NEMA 3, 4X, 7CD, 9EFG Standards
- Biaxial lamp
- Stainless steel relamp tool/ lamp support
- Low profile
- Highly reflective white painted reflector
- Shipped with two lamps installed

ORDERING NUMBER LOGIC

ORDERING NUMBER	WATTAGE	LIGHT SOURCE	VOLTAGE
H4132B	40 watt, Rapid Start, single ended, Biaxial 4 pin, 270 MA, 22.500 in. (572mm) (2 lamps installed)	Fluorescent	120, 60Hz
H4432B			277, 60Hz



**H4 FLUORESCENT LUMINAIRE FOR
USE IN HAZARDOUS LOCATIONS**
UL844, UL 1598 Outdoor Salt Water, NEMA 3, 4X, 7CD, 9EFG

NOTES

You must use temperature profile data to properly select luminaire.
See Page H-13.

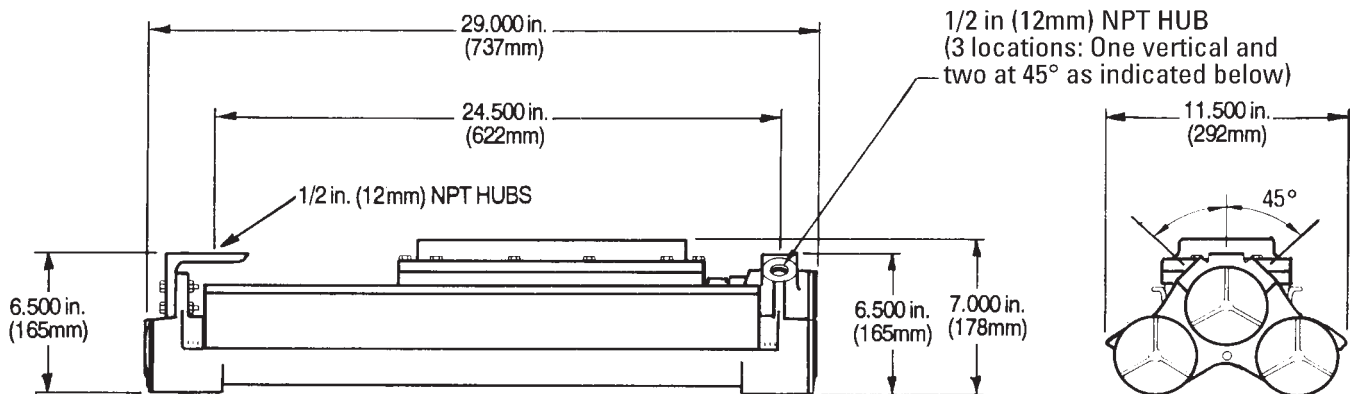
REFERENCES

See Page H-13 for Temperature Profile.
See Pages H-44 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight	40 lbs (18 kgs)
Operating Amps	120V = 0.72; 277V = 0.32
Input Watts	86
Minimum Start	50°F
Maximum Ambient	40°C
Photometric Curve Number	35-178958

FIXTURE DIMENSIONS



H4 FLUORESCENT HAZARDOUS LOCATION LIGHTING



H8 HAZARDOUS LOCATION INCANDESCENT LUMINAIRE UL844



APPLICATIONS

- Hazardous location incandescent lighting

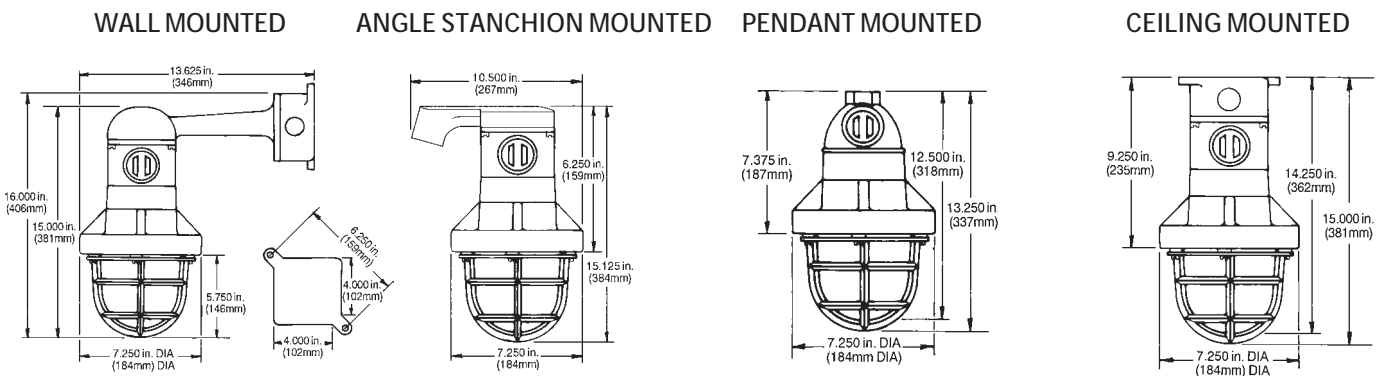
SPECIFICATION FEATURES

- UL844 Listed
 - Class I, Division 1, Groups C and D—300 watt maximum
 - Class II, Division 1, Groups E, F and G—150 watt maximum
 - Paint Spray Area—75 watt maximum
- Low copper aluminum alloy housing with gray paint finish
- Integral conduit seal
- Uses incandescent lamps up to 300 watt (PS-25)
- Third party listings
 - UL844
 - Paint Spray Area 75 watt maximum
- Shipped in single pack
- Maximum ambient 25°C

ORDERING NUMBER LOGIC

H8	X	30F	2C	KK
PRODUCT IDENT	VOLTAGE	WATTAGE/LIGHT SOURCE	MOUNTING	OPTICAL
XX H8 = Hazardous Location Incandescent Luminaire	X 60 Hz* X = 250 volt maximum *For 50 Hz, contact factory	XXX 30F = 300 watt maximum Medium Base Incandescent PS-25 Bulb Standard: Lamp not included	XX 2C = 1/2-in. Ceiling 3C = 3/4-in. Ceiling 5J = only (6J not available) 2P = 1/2-in. Pendant 3P = 3/4-in. Pendant 2W = 1/2-in. Wall 3W = 3/4-in. Wall	XX KK = Globe with Guard

FIXTURE DIMENSIONS



DATA

NOTES

You must use temperature profile data to properly select luminaire.
See Page H-7.

REFERENCES

See Pages H-7 for Temperature Profiles and Limitations.
See Page H-38 for start of Accessories.

Approximate Net Weight	lbs	kgs
Pendant with guard	12	305
Ceiling with guard	12	305
Wall bracket with guard	15	381
Angle stanchion	15	381

Photometrics

With globe	35-178472
With globe and standard reflector	35-178473

H7 ENCLOSED AND GASKETED LUMINAIRE



APPLICATIONS

- For outdoor non-hazardous locations where lamp protection from rain and the elements is needed

SPECIFICATION FEATURES

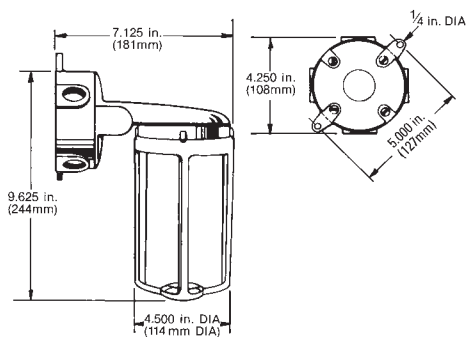
- Listed 1598 *Suitable for Wet Locations*
- Low copper aluminum alloy housing with gray paint finish
- Uses incandescent lamps up to 150 watts (A-21)
- Luminaires are single packed and shipped in one carton

ORDERING NUMBER LOGIC

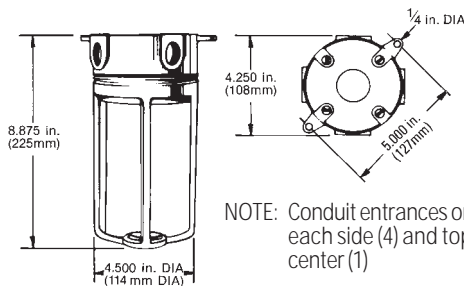
H7C PRODUCT IDENT	X VOLTAGE	15F LAMP TYPE	3C MOUNTING	DD OPTICAL
XX H7 = An Enclosed and Gasketed Luminaire	X 60 Hz* X = 250 volt maximum *For 50 Hz, contact factory	XXX 15F = 150 watt Medium Base Incandescent A-21 Bulb 250 volt max Standard: Lamp not included	XX 3C = 3/4-in. Ceiling 3P = 3/4-in. Pendant 3W = 3/4-in. Wall	XX DD = Clear Globe with Guard

FIXTURE DIMENSIONS

WALL MOUNTED

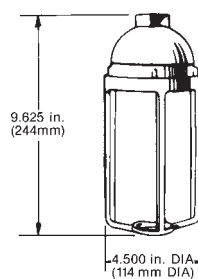


CEILING MOUNTED



NOTE: Conduit entrances on each side (4) and top center (1)

PENDANT MOUNTED



REFERENCES

See Page H-38 for start of Accessories.

DATA

Approximate Net Weight	lbs	kgs
Pendant with guard	2.75	1.25
Ceiling with guard	2.75	1.25
Wall bracket with guard	3.30	1.50





FILTR•GARD® H2 AND H2U LUMINAIRE

UL844, UL 1598 Outdoor Salt Water, UL1598 Suitable for Wet Locations

APPLICATIONS

- For adverse, severe duty and hazardous classifications (HID lamps)

SPECIFICATION FEATURES

- **UL** 1598 Listed General Non-Hazardous **Suitable For Wet Locations**. For metal halide lamps in polymeric lamp containment barriers
- **UL** 1598 Outdoor Salt Water Listed (formerly UL595)
 - Meets NEMA 4X Standards
- **UL** 844 Listed
 - Class I, Division 2, Groups A, B, C and D
 - Class II, Division 1, Groups E, F and G
 - Class II, Division 2, Group G
 - Class III, Divisions 1 and 2
- Maxi-Lux® guard
- Charcoal filters
- Multiple optical assemblies
- NEMA decal
- Wiring compartment
- Electro-epoxidized gray paint finish
- **H2** shipped as components: Ballast, Mounting, Optical, Accessories
- **H2U** shipped all in one carton with lamp and optical installed
- Low copper aluminum alloys
- Quick disconnect
- Mogul base socket
- Multiple mounting arrangements
- Safety chain provisions

ORDERING NUMBER LOGIC

H2	0	05L	3C	GG	F
PRODUCT IDENT XX(X)	VOLTAGE X	WATTAGE/LIGHT SOURCE/ BALLAST TYPE XXX	MOUNTING XX	OPTICAL+++ XX(X)	OPTIONS XXX
H2 = Filtr•Gard H2 Luminaire CAUTION: see pages H-8-9 for Temperature Profile Data and Limitations. Standard: No lamp included. H2U = Filtr•Gard H2 Luminaire shipped all in one carton with lamp and optical installed	60 Hz* 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 * For 50 Hz, contact factory	See Ballast Selection Table UL844, UL1598 05L = 50W/HPS/HPF/Reactor or Lag 07L = 70W/HPS/HPF/Reactor or Lag 10L = 100W/HPS/HPF/Reactor or Lag 15L = 150W(55V)/HPS/HPF/Reactor or Lag 05K = 50W/HPS/Hot Restart HPF Reactor 07K = 70W/HPS/Hot Restart HPF Reactor 10K = 100W/HPS/Hot Restart HPF Reactor 15K = 150W(55V)/HPS/Hot Restart HPF Reactor 07S = 70W/HPS/Mag-Reg 10S = 100W/HPS/Mag-Reg 15S = 150W/HPS/Mag-Reg 25S = 250W/HPS/Autoreg 40S = 400W/HPS/Autoreg 10M = 100W/MH/HPF Lag (Med Base) Standard: Lamp not included except with H2U 17M = 175W/MH/Autoreg 25M = 250W/MH/Autoreg 40M = 400W/MH/Autoreg 10C = 100W/Merc/Merc-Reg 25C = 250W/Merc/Merc-Autoreg 40C = 400W/Merc/Autoreg 17P = 175W/Pulse MH/Autoreg 25P = 250W/Pulse MH/Autoreg 40P = 400W/Pulse MH/Autoreg	3C = 3/4-in. Ceiling 4C = 1-in. Ceiling 3F = 3/4-in. Flexible pendant* 4F = 1-in. Flexible Pendant* 5J = 1-1/4-in. Angle Stanchion** 6J = 1-1/2-in. Angle Stanchion** 3L = 3/4-in. Low Profile*** 4L = 1-in. Low Profile*** 3P = 3/4-in. Rigid Pendant 4P = 1-in. Rigid Pendant 5S = 1-1/4-in. Straight Stanchion 6S = 1-1/2-in. Straight Stanchion 4W = 1-in. Wall 6D = 1-1/2-in. Pendant * Use when support is non-rigid. ** For limits see Temperature Profile. Caution: For metal halide, a universal burning type lamp must be used. *** Cannot be used for 250 and 400 watt units, switched quartz units or hot restart units. NOTE: Flexible pendant mounting cover must be used if unit is not rigidly mounted or fixture will not hang straight.	UL844, UL1598, UL1598 Outdoor Salt Water GG = Small Globe with Guard FG = Large Globe with Guard EG = Enclosed Reflector ALGLAS® finish with Guard (not UL1598 Outdoor Salt Water) NOTE: Not available with H2U V5G = 8-in. (203mm) Glass Refractor Type V with guard V2G = 8-in. (203mm) Glass Refractor Type II with Guard R5G = 12-in. (305mm) Glass Refractor Type V with Guard R2G = 12-in. (305mm) Glass Refractor Type II with Guard W5G = Universal Glass Refractor with Guard (not UL1598 Outdoor Salt Water Marine) UL844, UL1598 ONLY+ A5G = 12-in. (305mm) Acrylic Refractor Type V with Guard A2G = 12-in. (305mm) Acrylic Refractor Type II with Guard L5G = 12-in. (305MM) Polycarbonate Refractor Type V with Guard L2G = 12-in. (305mm) Polycarbonate Refractor Type II with Guard NOTE: Remove G as last digit to eliminate Guard For additional information, see Photometric Selection Table	F = Fusing—(Not available with multivolt or UL1598 Outdoor Salt Water units) Q = Time Delay Automatically Switched Quartz is available in certain ratings for Class II only. (Not available for Low Profile mounting.) For availability and Temperature Profile and Limitations with quartz lamp, see pages H-8 and H-9 U = UL1598 Outdoor Salt Water/UL844

BALLAST SELECTION TABLE +

Temperature is 40°C unless otherwise indicated.

Wattage	Light Source	Ballast Type/Voltage					
		Multivolt	120	208	240	277	480
50	HPS	L	K,L	N/A	N/A	N/A	L
70, 100	HPS	L,K,A	L,K,S	L,K,S	L,K,S	L,K,S	K,S
150 (55V)	HPS	L,K,A	L,K,S	L,K,S	L,K,S	L,K,S	K,S
250, 400	HPS	S	S	S	S	S	S
100	MH	M*	M*	M*	M*	M*	M*
175, 250, 400	MH, PMH	M, P**	M,P	M,P	M,P	M,P	M,P
100, 250, 400	Merc	C	C	C	C	C	C

+Ballast Type—
N/A = Not Available
C = Mercury, Reg (Autoreg 250W)
K = Hot Restart (HPF Reactor Type)
L = High Pressure Sodium HPF Reactor or Lag
P = Pulse Metal Halide
A = HPS Autoreg

M = Metal Halide, Autoreg
M* = Metal Halide, HPF Lag
S = High Pressure Sodium Mag-Reg or Autoreg
P** = Pulse Metal Halide Autoreg, not available 175W Multivolt

+NOTE: When using one of these opticals for a classified area, a special ballast assembly is required. Order, for example, similar to H201L3PA5G except for use with specified optical.
++Standard max Ambient Temp is 40°C — for 55°C, 65°C, 90°C, contact factory.
+++Before using, see pages H-8 and H-9 for Temperature Profile information.

CANADIAN NOTES:
Use Filtr-Gard C2 luminaire. Reference publication LSP-1108(Can)



FILTR•GARD® H2 AND H2U LUMINAIRE

UL844, UL 1598 Outdoor Salt Water,
UL1598 Suitable for Wet Locations

DIMENSIONS

See Pages H-24 thru H-27.

NOTES

You must use temperature profile data to properly select luminaire. See Pages H-8 and H-9.

REFERENCES

See Pages H-8 and H-9 for Temperature Profiles and Limitations.
See Page H-38 for start of Accessories.
See Page H-43 for Component Ordering Logic.
See Pages H-44 for Explanation of Options and Other Terms Used.

DATA

See Dimensions Pages for approximate Net Weight.
Add weight for each component to get total luminaire weight.

OPTICAL ELIGIBILITY AND PHOTOMETRIC SELECTION TABLE

Photometric curve number 35-17 - - - All light sources are clear unless otherwise indicated. Before using, imperative to check Temperature Profile information to properly match Optical to Classification - see pages H-8 and H-9.

Filtr•Gard Luminaire	70, 100, 150W(55V) HPS	250W HPS	100W MH	175W MH,PMH	250W MH,PMH	400W MH,PMH	100W Merc (Coated)	250W Merc (Coated)	400W Merc (Coated)
Globe and guard (FG, 250W max) (GG, 175W max) coated (6693)	6618	(FG) 6633	8323	(FG) 6835	(FG) 6835	N/A	6693	(FG) 6742	N/A
Globe and guard (FG, 250W max) (GG, 175W max) and dome reflector (H2000-001)	6619	(FG) 6634	8324	(FG) 6836	(FG) 6836	N/A	6695	(FG) 6743	N/A
Globe and guard (FG, 250W max) (GG, 175W max*) and deep dome reflector (H2000-006)	7024	(FG) 7445	8325	(GG) 7446	(FG) 9155	N/A	7044	(FG) 9157	N/A
Globe and guard (FG, 250W max) (GG, 175W max) and angle dome reflector (H2000-002)	6609	(FG) 6645	8326	6838	(FG) 9150	N/A	6803	(FG) 6745	N/A
Angle Stanchion (5J or 6J) with globe and guard (FG, 250W max) (GG, 175W max)	7037	9136	8329	(GG) 9130	(FG) 9137	N/A	(GG) 9131	(FG) 9132	N/A
Angle Stanchion (5J or 6J) with globe and guard (FG, 250W max) (GG, 175W max) and dome reflector (H2000-001)	6814	9139	8330	(GG) 9133	(FG) 9140	N/A	(GG) 9134	(GG) 9141	N/A
Glass refractor Type V with guard (V5G, 175W max) (R5G, 400W max)	(R5G) 6807	(R5G) 6639**	(V5G) 8331	(V5G) 452876	(R5G) 9156	(R5G) 6778	(R5G) 6696	(R5G) 6696	(R5G) 6830
Glass refractor Type II with guard (V2G, 175W max) (R2G, 400W max)	(R2G) 6810	(R2G) 6646**	(V2G) 9151	(V2G) 452875	(R2G) 9149	(R2G) 9153	(R2G) 6800	(R2G) 6800	(R2G) 6834
Acrylic refractor Type V with guard (A5G, 150W max)	6867	N/A	8332	N/A	N/A	N/A	6868	N/A	N/A
Acrylic refractor Type II with guard (A2G, 150W max)	6874	N/A	8333	N/A	N/A	N/A	6877	N/A	N/A
Polycarbonate refractor Type V with guard (L5G, 150W max)	6864	N/A	N/A	N/A	N/A	N/A	6872	N/A	N/A
Polycarbonate refractor Type II with guard (L2G, 150W max)	9152	N/A	8335	N/A	N/A	N/A	9154	N/A	N/A
Enclosed reflector with ALGLAS® (400W max) finish (without guard H2000-EN) (with guard H2000-EG)	6709	6725**	N/A	6731	6731	7838 (Coated)	6841	6841	6711
Universal glass refractor (W5G, 175W max) with guard	7032	N/A	8336	7847	N/A	N/A	9158	N/A	N/A

FILTR-GARD HAZARDOUS LOCATION LIGHTING



NOTE: C/F=Contact Factory

NOTE: *For some ratings shown in Temperature Profile Information, GG can be used up to 250 watt maximum.

NOTE: **These curves are for 400 watt HPS also.

N/A=Not Available

GE Lighting Systems, Inc.

www.gelightingssystem.com



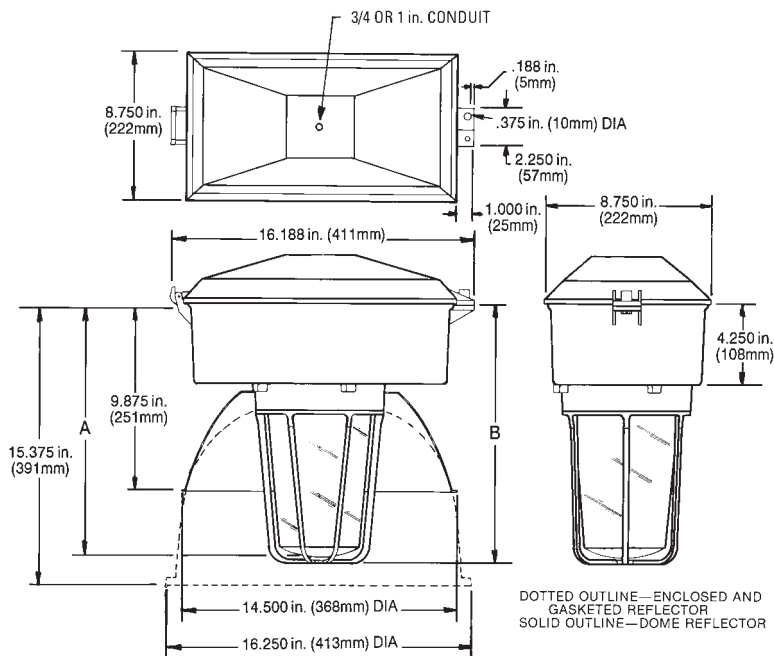
FILTR•GARD® H2 AND H2ULUMINAIRE

UL844, UL 1598 Outdoor Salt Water,
UL1598 Suitable for Wet Locations

YOU MUST USE TEMPERATURE PROFILE DATA
TO PROPERLY SELECT LUMINAIRE

FIXTURE DIMENSIONS

LUMINAIRE



BALLAST

Wattage	Approx Net Weight (lbs)	Approx Net Weight (kgs)
50	14.0	6
70	13.0-19.2	6-9
100	13.5-20.5	6-9
150 (55V)	14.5-21.1	7-10
175	14.4-15.5	7-7
250	16.7-22.5	8-10
400	19.3-22.7	9-10

NOTE: Does not include mountings or optics.

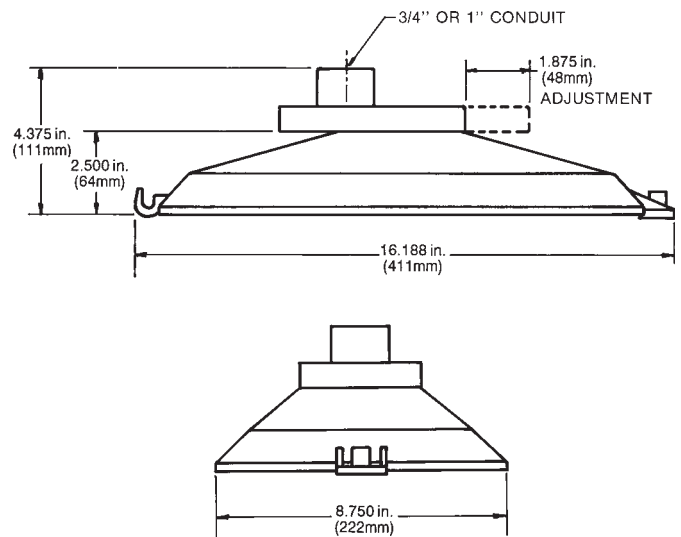
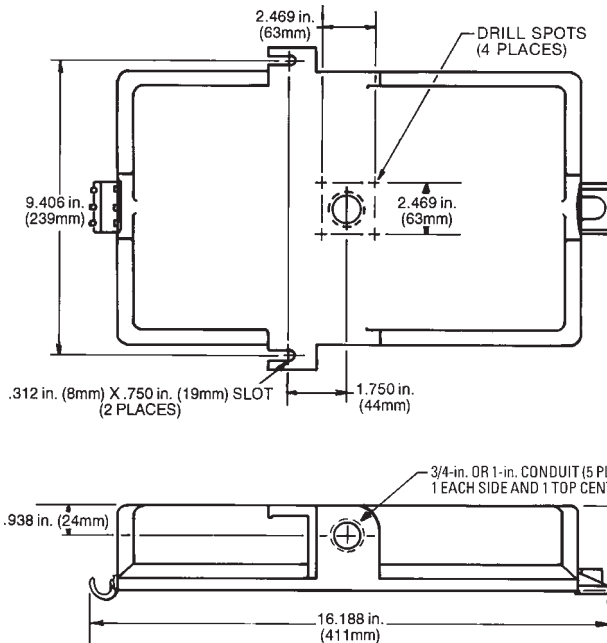
GLOBE

Dim	9 in. (229mm)	7 in. (178mm)
A	13.250 in. (337mm)	11.750 in. (298mm)
B	13.625 in. (346mm)	12.125 in. (308mm)

MOUNTINGS

CEILING	Approximate Net Weight	3.5 lbs	2 kgs
3/4-INCH=3C			
1-INCH=4C			

FLEXIBLE PENDANT	Approximate Net Weight	3.5 lbs	2 kgs
3/4-inch=3F			
1-inch=4F			



FILTR•GARD HAZARDOUS LOCATION LIGHTING



FILTR•GARD® H2 AND H2U LUMINAIRE

UL844, UL 1598 Outdoor Salt Water,
UL1598 Suitable for Wet Locations

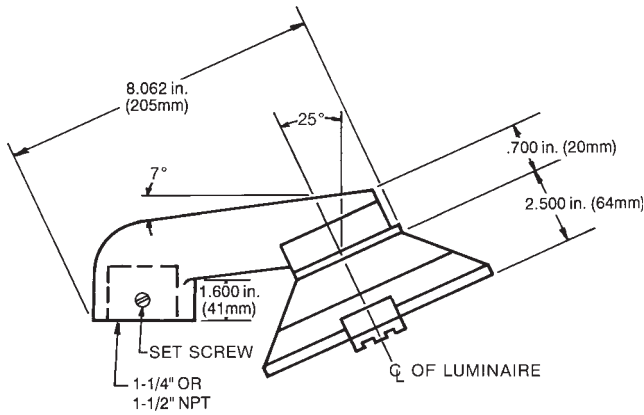
YOU MUST USE TEMPERATURE PROFILE DATA
TO PROPERLY SELECT LUMINAIRE

FIXTURE DIMENSIONS

MOUNTINGS

ANGLE STANCHION
1-1/4-inch=5J, 1-1/2-inch=6J

Approximate Net Weight	5.0 lbs	2 kgs
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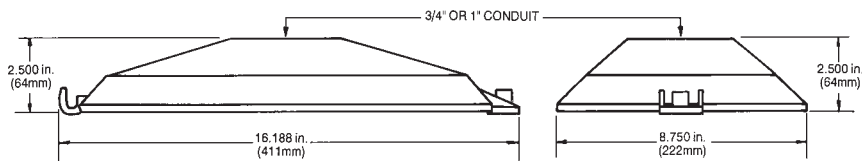
LOW PROFILE 3/4-inch=3L
1-inch=4L

Approximate Net Weight	3.0 lbs	1 kg
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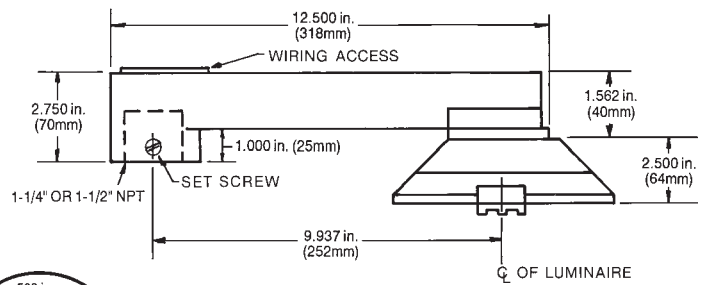
PENDANT
3/4-inch=3P
1-inch=4P

Approximate Net Weight	3.5 lbs	2 kgs
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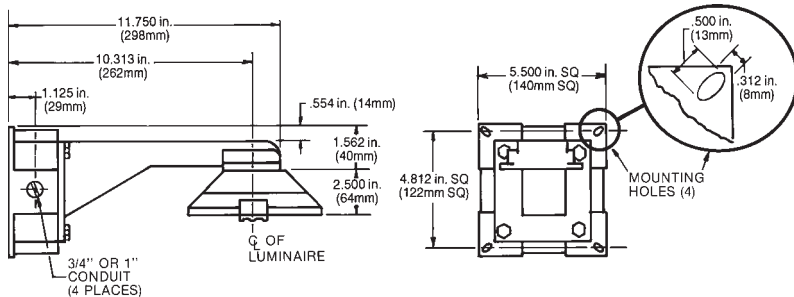
STRAIGHT STANCHION
1-1/4-inch=5S, 1-1/2-inch=6S

Approximate Net Weight	6.7 lbs	3 kgs
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WALL
3/4-inch=3W
1-inch=4W

Approximate Net Weight	5 lbs	2 kgs
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FILTR-GARD HAZARDOUS LOCATION LIGHTING





FILTR•GARD® H2 AND H2U LUMINAIRE

UL844, UL 1598 Outdoor Salt Water,
UL1598 Suitable for Wet Locations

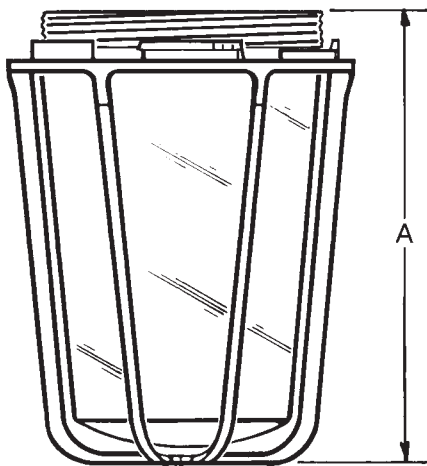
YOU MUST USE TEMPERATURE PROFILE DATA
TO PROPERLY SELECT LUMINAIRE

FIXTURE DIMENSIONS

OPTICALS CHECK TEMPERATURE PROFILES AND LISTINGS

GLOBE AND GUARD (FG or GG)

Approximate Net Weight	FG 9-in. (229mm) GG 7-in. (178mm)	3.7 lbs 3.0 lbs	2 kgs 1 kgs
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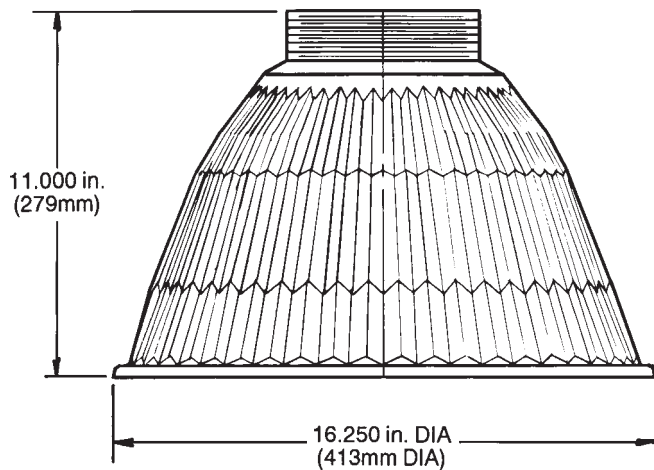


Dim	FG-9 in. (229mm)	GG-7 in. (178mm)
A	9.250 in. 235mm	8.125 in. 206mm

FILTR-GARD HAZARDOUS LOCATION LIGHTING

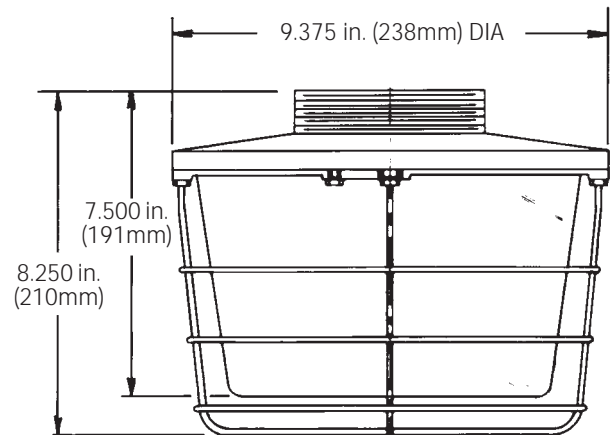
ENCLOSED INDUSTRIAL REFLECTOR (EG or E)

Approximate Net Weight	5 lbs	2 kgs
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8-INCH GLASS REFRACTOR (V2G or V5G)

Approximate Net Weight	3.9 lbs	1.5 kgs
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FILTR•GARD® H2 AND H2U LUMINAIRE

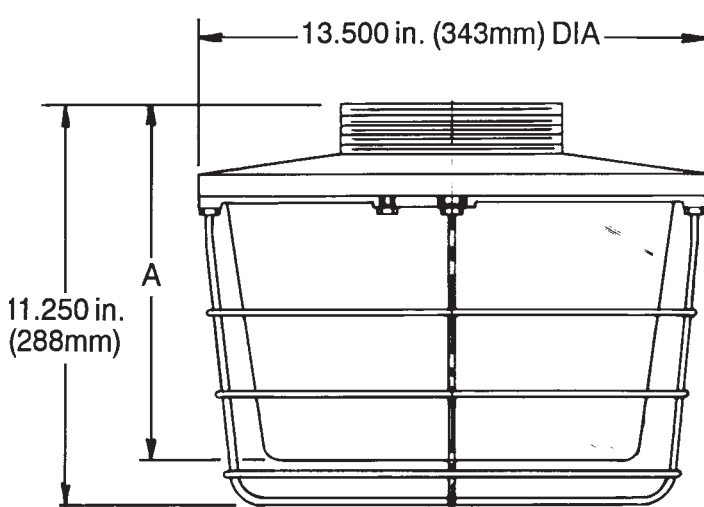
UL844, UL 1598 Outdoor Salt Water,
UL1598 Suitable for Wet Locations

YOU MUST USE TEMPERATURE PROFILE DATA
TO PROPERLY SELECT LUMINAIRE

FIXTURE DIMENSIONS

OPTICALS CHECK TEMPERATURE PROFILES AND LISTINGS

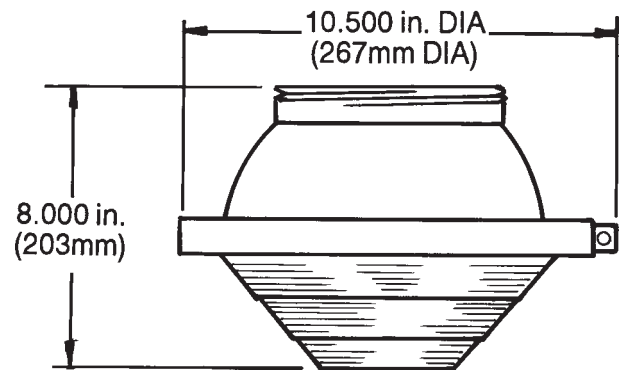
12-INCH REFRACTOR (R2G OR R5G) (L2G OR L5G) (A2G OR A5G)	Approximate Net Weight	R2G, R5G Glass	14.7 lbs	7 kgs
		L2G, L5G, A2G, A5G Acrylic or Polycarbonate	6.0 lbs	6 kgs



	A
R2G, R5G Glass	10.125 in. 257mm
L2G, L5G A2G, A5G Acrylic or Polycarbonate	9.500 in. 241mm

UNIVERSAL GLASS REFRACTOR (W5G)

Approximate Net Weight	3.3 lbs	1 kg
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FILTR-GARD HAZARDOUS LOCATION LIGHTING





MINI-GARD™ LUMINAIRE

UL844 – UL 1598 Suitable for Wet Locations

APPLICATIONS

- For adverse, severe duty and hazardous classifications

SPECIFICATION FEATURES

- 1598 Listed General Non-Hazardous Suitable For Wet Locations.
- 844 Listed
 - Class I, Division 2, Groups A, B, C and D
 - Class II, Division 1 and 2, Groups E, F and G
 - Class III, Divisions 1 and 2
 - Simultaneous Presence: Class I Division 2, Class II Divisions 1 and 2
- Multiple optical assemblies
- Multiple mounting arrangements
- Lamp type and wattage label
- Medium base socket for HID and biaxial for fluorescent
- Threaded hub for easy mounting
- Electro-epoxidized gray paint finish inside and outside
- **MGH** shipped as components: Ballast, Mounting, Optical. Accessories (lamp included with fluorescent units)
- **MGHU** shipped all in one carton with optical and HID lamp installed
- Low copper aluminum alloys
- Charcoal filter
- Safety chain provisions

ORDERING NUMBER LOGIC

MGH	15	S	0	H	4	3P	GG	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C Standard: 40°C	MOUNTING	OPTICAL***	OPTIONS
XXX(X)	XX	X	X	X	X	XX	XX(X)	XXX
MGH = Mini-Gard Luminaire CAUTION: See pages H-11-12 for Temperature Profile Data and Limitations. HID lamp not included. MGHU = Mini-Gard Luminaire CAUTION: See pages H-11-12 for Temperature Profile Data and Limitations. Shipped all in carton with lamp and optical installed.	HID 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 Fluorescent 13 = 13 (1 lamp) 26 = 26 (1 lamp) 52 = 52 (2 26 watt lamps)	M = MH S = HPS F = Fluorescent	60Hz* 0 = 120/208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 *For 50 Hz, contact factory	See Ballast Selection Table A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	4 = 40 5 = 55 6 = 65	3C = 3/4 in. Ceiling 4C = 1 in. Ceiling 3F = 3/4 in. Flexible* 4F = 1 in. Flexible* 5J = 1-1/4 in. Angle stanchion** 6J = 1-1/2 in. Angle stanchion** 3P = 3/4 in. Pendant 4P = 1 in. Pendant 5S = 1-1/4 in. Straight stanchion 6S = 1-1/2 in. Straight stanchion 3W = 3/4 in. Wall 4W = 1 in. Wall * Use when support is not rigid ** Caution for metal halide: a universal burning type lamp must be used	See Optical Eligibility and Photometric Selection Table FG = Large Globe and Guard FN = Large Globe GG = Small Globe and Guard GN = Small Globe V5G = 8" Refractor glass Type V with guard V5N = 8" Refractor glass Type V V2G = 8" Refractor glass asymmetric with guard V2N = 8" Refractor glass asymmetric *** Before using see pages H-11-12 for Temperature Profile Information	F = Fusing (Not available with multivolt or fluorescent units) Q = Time Delay Automatically Switched Quartz is available in certain ratings for Class II only. For availability and Temperature Profile and Limitations with quartz lamp, see page H-12. (Available with HPS only)

MINI-GARD HAZARDOUS LOCATION LIGHTING



BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage					
		Multivolt	120	208	240	277	480
50	HPS	H	H	N/A	N/A	N/A	N/A
70, 100	HPS	H	H	H	H	H	A
150 (55V)	HPS	H	H	H	H	H	A
70, 100	MH	H	H	H	H	H	H
175	MH	A	A	A	A	A	A
13	F	N/A	N	N/A	N/A	N	N/A
26	F	N/A	N/A	N/A	N/A	N	N/A
52	F	N/A	N/A	N/A	N/A	N	N/A

N/A = Not Available
A = Autoreg, H = HPF Reactor or Lag, N = NPF Reactor or Lag

MINI•GARD™ LUMINAIRE
UL844 – UL 1598 Suitable for Wet Locations

DIMENSIONS

See Pages H-30 and H-31.

NOTES

You must use temperature profile data to properly select hazardous luminaire. See Pages H-11 and H-12.

REFERENCES

See Pages H-11 and H-12 for Temperature Profiles and Limitations.
 See Page H-38 for start of Accessories.
 See Page H-43 for Component Ordering Logic.
 See Pages H-44 for Explanation of Options and Other Terms Used.

DATA

See Dimensions Pages for approximate Net Weight.
 Add weight for each component to get total luminaire weight.

OPTICAL ELIGIBILITY, AVAILABLE AMBIENT AND PHOTOMETRIC SELECTION TABLE

Photometric curve number 35-17 - - - and ambient °C: 40°C standard. All light sources are clear unless otherwise indicated. Before using, imperative to check Hazardous Luminaire Temperature Profile information to properly match Optical to Classification, See Pages H-11 and H-12.

Mini•Gard Luminaire	50, 70, 100, HPS	150W(55V)HPS	70W Metal Halide	100W Metal Halide	175W Metal Halide	13W Fluorescent	26W Fluorescent	52W Fluorescent
Available Ambient	40, 55, 65°C	40, 55°C	40, 55, 65°C	40, 55°C	40°C	40°C	40°C	40°C
Globe and guard	(GG) 9439	(GG) 9439	(GG) 9423	(GG) 9423	(GG) 9431	(FG) 9447	(FG) 9455	(FG) 9470
Globe and guard and dome reflector (H2000-001)	(GG) 9440	(GG) 9440	(GG) 9424	(GG) 9424	(GG) 9432	(FG) 9448	(FG) 9456	(FG) 9471
Globe and guard and deep dome reflector (H2000-006)	(GG) 9441	(GG) 9441	(GG) 9425	(GG) 9425	(GG) 9433	(FG) 9449	(FG) 9457	(FG) 9472
Globe and guard and angle dome reflector (H2000-002)	(GG) 9444	(GG) 9444	(GG) 9430	(GG) 9430	(GG) 9438	(FG) 9452	(FG) 9459	(FG) 9474
Angle Stanchion (5J or 6J) with globe and guard	(GG) 9445	(GG) 9445	(GG) 9428	(GG) 9428	(GG) 9436	(FG) 9453	(FG) 9460	(FG) 9475
Angle Stanchion (5J or 6J) with globe and guard and dome reflector (H2000-001)	(GG) 9446	(GG) 9446	(GG) 9429	(GG) 9429	(GG) 9437	(FG) 9454	(FG) 9461	(FG) 9476
Glass refractor Type V with guard	(V5G) 9442	(V5G) 9442	(V5G) 9426	(V5G) 9426	(V5G) 9434	N/A	N/A	N/A
Glass refractor Asymmetric with guard	(V2G) 9601	(V2G) 9601	(V2G) 9602	(V2G) 9602	(V2G) 9603	N/A	N/A	N/A

NOTE: N/A=Not Available

MINI-GARD HAZARDOUS LOCATION LIGHTING





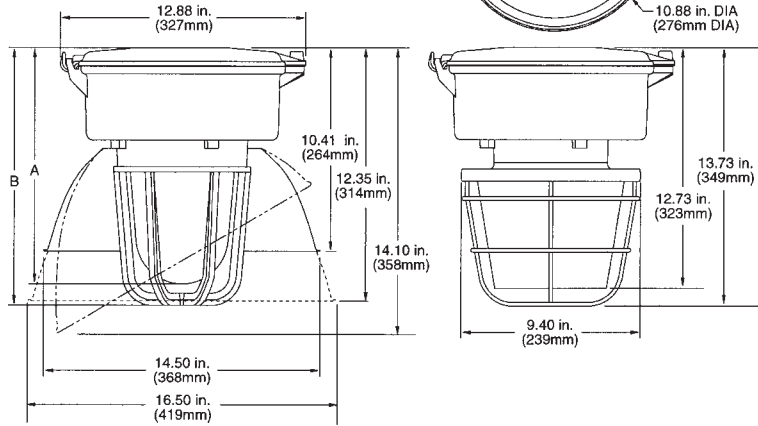
MINI-GARD™ LUMINAIRE

UL844 – UL 1598 Suitable for Wet Locations

FIXTURE DIMENSIONS

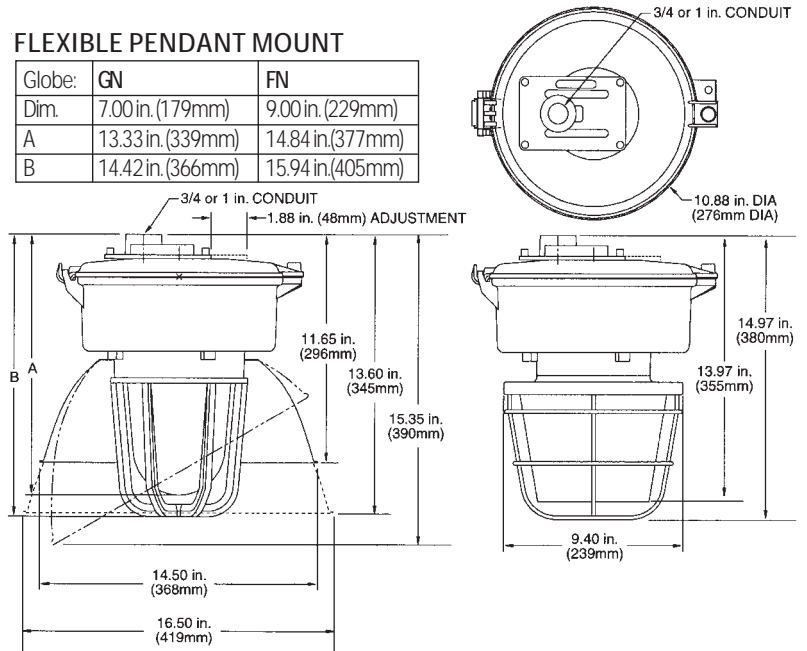
PENDANT MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	12.08 in. (307mm)	13.59 in. (345mm)
B	13.17 in. (335mm)	15.11 in. (384mm)



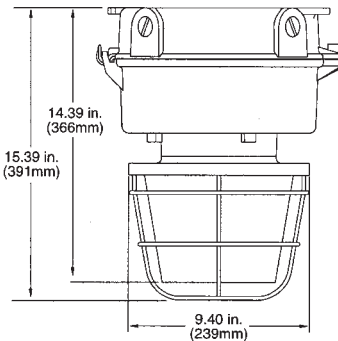
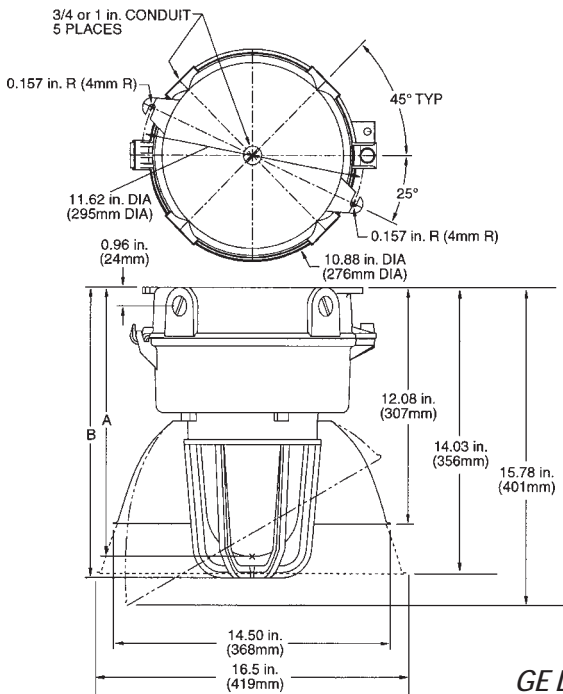
FLEXIBLE PENDANT MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	13.33 in. (339mm)	14.84 in. (377mm)
B	14.42 in. (366mm)	15.94 in. (405mm)



CEILING MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	13.75 in. (349mm)	15.27 in. (388mm)
B	14.84 in. (377mm)	16.36 in. (416mm)



Solid Line (—) = Dome Reflector H2000-001
 Dotted Line (.....) = Deep Dome Reflector H2000-006
 Dashed Line (---) = Angled Dome Reflector H2000-002

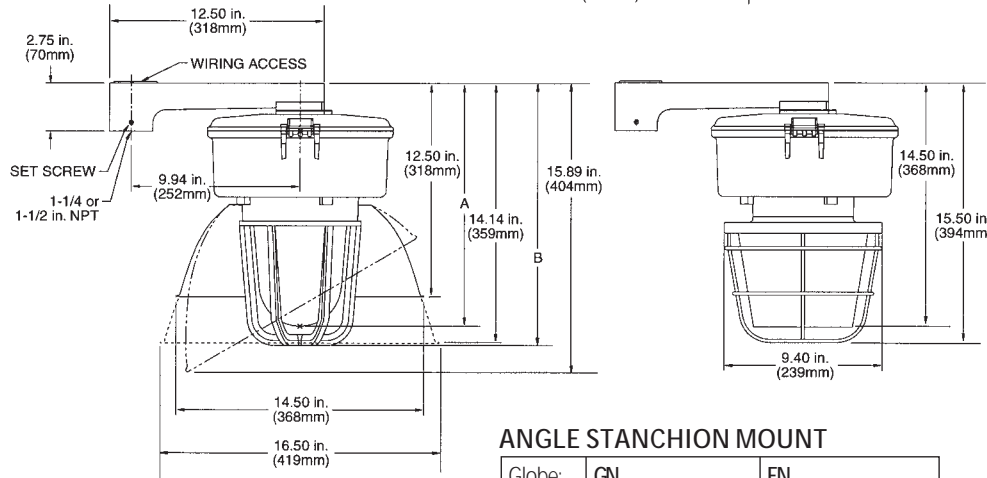
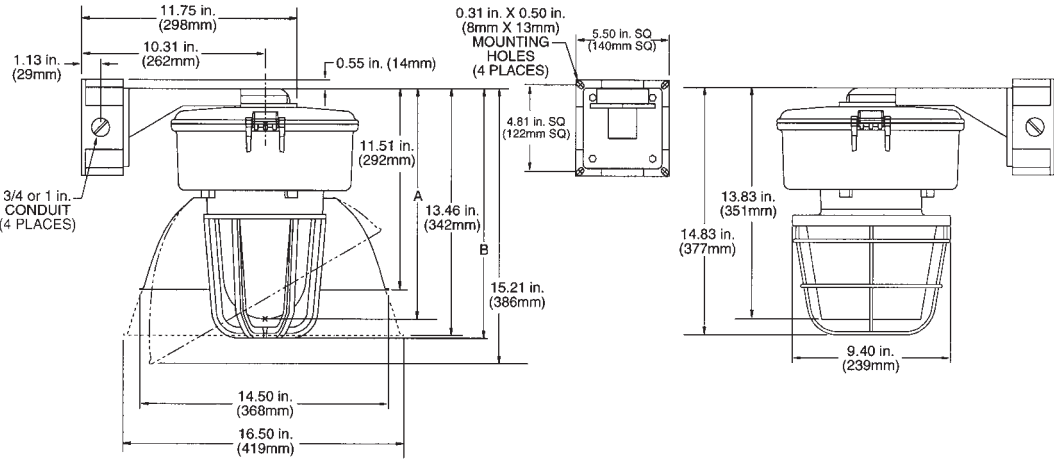
MINI•GARD™ LUMINAIRE

UL844 – UL 1598 Suitable for Wet Locations

FIXTURE DIMENSIONS

WALL MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	13.86 in. (352mm)	15.38 in. (391mm)
B	14.95 in. (380mm)	16.47 in. (418mm)

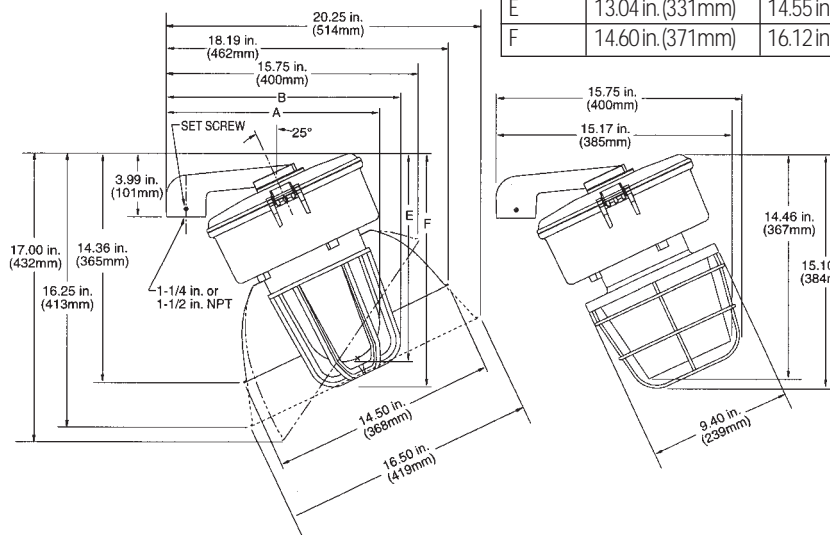


STRAIGHT STANCHION MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	13.86 in. (352mm)	15.38 in. (391mm)
B	14.95 in. (380mm)	16.47 in. (418mm)

ANGLE STANCHION MOUNT

Globe:	GN	FN
Dim.	7.00 in. (179mm)	9.00 in. (229mm)
A	11.16 in. (283mm)	12.67 in. (321mm)
B	12.22 in. (310mm)	13.73 in. (348mm)
E	13.04 in. (331mm)	14.55 in. (370mm)
F	14.60 in. (371mm)	16.12 in. (409mm)



APPROXIMATE NET WEIGHTS

BALLAST HOUSING ASSEMBLY		
Wattage	Pounds	Kilograms
50	14.0	6
70	13.0 - 19.2	6 - 9
100	13.5 - 20.5	6 - 9
150 (55V)	14.5 - 21.1	7 - 10
175	14.4 - 15.5	7
13/26/52 (Fluorescent)	14.0	6

OPTICAL		
GG - Globe	3.0	1
FG - Globe	3.7	2
V2G/V5G Refractor	3.9	2

MOUNTINGS		
3P/4P Pendant	3.0	1
3C/4C Ceiling	5.0	2
3F/4F Flexible Pendant	3.5	3
5J/6J Angle Stanchion	5.0	2
5S/6S Straight Stanchion	5.0	2
3W/4W Wall	8.0	3





PERMA•GARD® LUMINAIRE

UL844, UL1598, UL1598 OUTDOOR SALT WATER, CANADIAN UL1598, NEMA 4X

APPLICATIONS

- For adverse, severe duty and hazardous classifications. (HID lamps)

SPECIFICATION FEATURES

- 1598 Listed
Suitable For Wet Locations
- 844 Listed
 - Class I, Division 2, Groups A, B, C and D
- 1598 Outdoor Salt Water Listed (formerly UL595)
- Listed
Class I, Division 2, Groups A, B, C and D
- Meets NEMA 4X standards
- No exposed metal parts
- Corrosion-resistant materials
- Choice of optical assemblies
- Quick electro-mechanical connection
- Shipped in single pack: Mounting, Ballast, Optical Accessories
- Maxi-Lux® guard
- NEMA decal
- Wiring compartment
- Mogul base socket

ORDERING NUMBER LOGIC

PMGA	15	S	0	H	X	3PR	GG	AR5	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	MOUNTING	OPTICAL	ACCESSORIES (IF REQUIRED)	OPTIONS (IF REQUIRED)
XXXX	XX	X	X	X	X	XXX	XX(X)(X)	XXX	XXX
PMGA = Perma-Gard Luminaire	HID 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175	M = MH S = HPS C = Merc Standard: lamp not included	60Hz* 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120x347 *For 50 Hz, contact factory	See Ballast Selection Table A = Autoreg H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg NOTE: K is not available with 70 or 150 watt	See Temperature Profile information Standard Maximum Ambient Temperature is 40°C. Certain Merc ratings available in 55°C. X = For all available temperature ratings, as determined by optical.	3PR = 3/4-in. Pendant Rigid** 4PR = 1-in. Pendant Rigid** 3WR* = 3/4-in. Wall 4WR* = 1-in. Wall 5SR* = 1-1/4-in. Straight Stanchion 6SR* = 1-1/2-in. Straight Stanchion NOTE: *With these mountings a PMG-4PR is included. **Cannot use flexible mounting.	See Temperature Profile information ALB5 = Angled Low Bay Optical 15-in. (381mm) GG = Small Globe with guard GN = Small Globe LB5 = Low Bay Optical 15-in. (381mm) TA2 = Low Bay Optical 22-in. (559mm)	See Accessories AR5 = Angled Reflector 15-in. (381mm) use with globe and guard DR5 = Dome Reflector 15-in. (381mm) use with globe and guard	F = Fusing (Not available with multivolt or CSA or UL1598 Outdoor Salt Water or metal halide units) 40°C only Q = Time Delay Automatically Switched Quartz (not available for Class I, Div. 2) UL 1598 only

PERMA-GARD HAZARDOUS LOCATION LIGHTING



BALLAST SELECTION TABLE

Maximum ambient temperature is 40° C unless otherwise indicated.

Wattage	Light Source	Voltage							
		Multivolt	120	208	240	277	480	347, 120X347	
50	HPS	H	H,K	H,K	H,K	N/A	N/A	N/A	
70,100	HPS	H	H,K*M,G	H,K*M,G	H,K*M,G	H,K*M,G	M,G	H	
150 (55V)	HPS	H	H,M,G	H,M,G	H,M,G	H,M,G	M,G	H	
175	MH	A	A	A	A	A	A	A	
100**, 175	Merc	C	C	C	C	C	C	N/A	

NOTE: N/A = Not Available
** 100W Merc is Reg

* 70 watt "K" not available

CANADIAN NOTES:

1. "H", HPF, "A", Autoreg, available 120, 277 or 347 volts only.
2. 208, 240, and 480 volts require CWI ballast. Use "G" when available. Contact factory for all others.
3. Multivolt not available.
4. "K" Hot Restart not available.

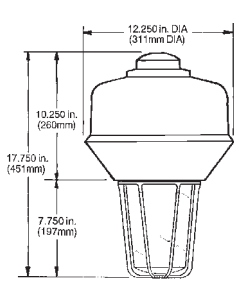
GE Lighting Systems, Inc.

www.gelighting.com

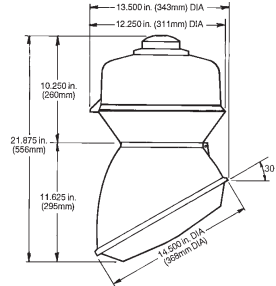
PERMA•GARD® LUMINAIRE

UL844, UL 1598, UL 1598 OUTDOOR SALT WATER, CANADIAN UL 1598, NEMA 4X

FIXTURE DIMENSIONS

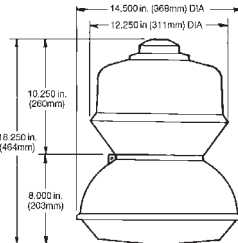


GG=Glass globe with guard

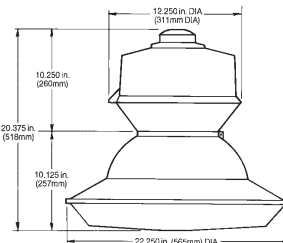


ALB5=Angled 15 in. (381mm)

OPTICAL CHOICE

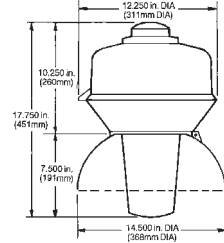


LB5=15 in. (381mm) low bay refractor

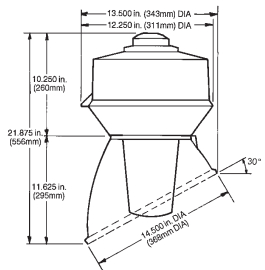


TA2=22 in. (569mm) low bay refractor

ACCESSORIES



PMG-DR5=Dome reflector



PMG-AR5=Angled reflector

DATA

Add weight for each component to get total luminaire weight.

PERMA•GARD LUMINAIRE WEIGHTS

	Approximate Net Weight	
	Lbs	Kgs
Ballast Housing Assembly		
50 watt HPS	15	7
70 watt HPS	15	7
100 watt HPS	15	7
150 watt (55V) HPS	17	8
175 watt metal halide	15	7
100 watt mercury	14	6
175 watt mercury	15	7

	Approximate Net Weight	
	Lbs	Kgs
Mounting Hub Assembly		
3PR or 4PR	2	1
Optical Assembly		
ALB5 refractor	3	1
GN globe	3	1
LB5 refractor	3	1
TA2 refractor	5	2

PHOTOMETRIC SELECTION AND THIRD PARTY CERTIFICATIONS AND STANDARDS TABLE

Photometric Curve Number 35-17- - - All light sources clear unless otherwise indicated. Third Party Certifications and Standards								
	UL844, CSA	UL1598 Outdoor Salt Water	UL1598 Suitable For Wet Locations	NEMA 4X	50-150W HPS	50-150W HPS (Coated)	175W MH 100,175W Merc	175W MH 100,175W Merc (Coated)
Globe and guard (PMG-GN, PMG-NG)	X	X	X	X	7407	7432	7419	7393
Globe and guard (PMG-GN, PMG-NG) and dome reflector (PMG-DR5)	X	X	X	X	7404	7428	7415	7394
Globe and guard (PMG-GN, PMG-NG) and angled dome reflector (PMG-AR5)	X	X	X	X	7406	7430	7417	7400
Globe (PMG-GN)	X	X	X	X	7410	7431	7418	7392
Globe (PMG-GN) and dome reflector (PMG-DR5)	X	X	X	X	7403	7427	7426	7391
Globe (PMG-GN) and angled dome reflector (PMG-AR5)	X	X	X	X	7405	7429	7416	7399
15-in. (381mm) acrylic refractor (PMG-LB5) (Not 175W MH)	X	N/A	X	N/A	7408	7433	7420*	7395*
15-in. (381mm) angled dome acrylic refractor (PMG-ALB5) (Not 175W MH)	X	N/A	X	N/A	7412	7435	7422*	7401*
22-in. (559mm) acrylic refractor (PMG-TA2)	X	N/A	X	N/A	7409	7437	7424	7397

NOTE: N/A = Not Available *Mercury only

NOTES

You must use temperature profile data to properly select hazardous luminaire. See Page H-13.

REFERENCES

See Page H-13 for Temperature Profiles and Limitations.
 See Page H-38 for start of Accessories.
 See Page H-43 for Component Ordering Logic.
 See Pages H-44 for Explanation of Options and Other Terms Used.

GE Lighting Systems, Inc.

www.gelightingssystem.com



FOOD-PRO™ II LUMINAIRE



APPLICATIONS

- For low bay applications 15 to 25 ft. in food processing applications or other areas requiring hosedown capability.

SPECIFICATION FEATURES

- / 1598 Listed
- Suitable For Wet Locations
- NEMA 4 Housing
- 844 Listed
- Class II & Class III Division 2, Groups D & G
- Heavy duty cast aluminum housing
- White epoxy overcoat finish
- 1200 PSI hosedown
- UV stabilized injection molded prismatic refractor for low brightness
- Meets UL metal halide polymeric lamp containment
- NSF (National Sanitation Foundation) Certified

AVAILABLE COMBINATIONS

ORDERING NUMBER LOGIC —

1 - MULTIVOLT OFFERINGS

FP2	W	40M	0	A	EA	NA	11	Q
PRODUCT IDENT	UNIT COLOR	LAMP WATTS & TYPE	VOLTAGE	BALLAST TYPE	OPTICALS	PHOTOMETREY	MOUNTING OPTIONS	OPTIONS
XXX	X	XXX	X	X	XX	XX	XX	XXX
FP2=	W = White	40S = 400W HPS 25M = 250W MH 40M = 400W MH 25P = 250W Pulse Start MH 32P = 320W Pulse Start MH 40P = 400W Pulse Start MH	0 = 120/208/240/277	A = Autoreg	EA = Enclosed Acrylic EP = Enclosed Polycarbonate (250W lamp only)	N/A = Not Applicable	11 = 3/4 in. Rigid Pendant Mounting	Q = Non-Time Delay Switched Quartz L = Lamp Included

EXAMPLES: FP2W40M0AEANA11 FP2W40P0AEANA11
 FP2W40M0AEANA11L FP2W40P0AEANA11L
 FP2W40M0AEANA11Q FP2W40P0AEANA11Q

ORDERING NUMBER LOGIC —

2 - DISCRETE VOLTAGE OFFERINGS (SEE NOTES)

FP2	W	40P	0	A	EA	NA	93	Q
PRODUCT IDENT	UNIT COLOR	LAMP WATTS & TYPE	VOLTAGE	BALLAST TYPE	OPTICALS	PHOTOMETREY	MOUNTING OPTIONS	OPTIONS
XXX	X	XXX	X	X	XX	XX	XX	XXX
FP2=	W = White	40S = 400W HPS 25M = 250W MH 40M = 400W MH 25P = 250W Pulse Start MH 32P = 320W Pulse Start MH 40P = 400W Pulse Start MH	1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347	A = Autoreg	EA = Enclosed Acrylic EP = Enclosed Polycarbonate (250W lamp only)	N/A = Not Applicable	11 = 3/4 in. Rigid Pendant Mounting 21 = Prewire Hook, W/3'-16/3 Cord (No Plug) 93 = 3/4 in. Rigid Pendant Mounting with Primary Electrical Receptacle with Mating Mini-Plug A & 6' Cord	F = Fusing L = Lamp Included Q = Non-Time Delay Switched Quartz

EXAMPLES: FP2W40M4AEANA93
 FP2W40M4AEANA21
 FP2W40M4AEANA11F
 FP2W40P4AEANA93
 FP2W40P4AEANA21
 FP2W40P4AEANA11F
 FP2W40M5AEANA11F

NOTES:
 1. Discrete voltages (120, 208, 240 or 277V) in this category selection are not available unless used with supplied cord (mountings 21 or 93) and/or fusing.
 2. No restriction for 347 or 480V in this category.

FOOD-PRO™ II LUMINAIRE



FOOD-PRO™ II LUMINAIRE

NOTES

You must use temperature profile data to properly select luminaire.
See Page H-13.

REFERENCES

See Pages H-13 for Temperature Profile.
See Pages H-44 for Explanation of Options and Other Terms Used.

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Spacing Criteria	Photometric Curve Number 35-17 - - - -
250, 400	HPS	1.6	453258
250	MH, PMH (coated)	1.7	453257
250	MH, PMH	1.6	453256
320, 400	MH, PMH (coated)	1.5	453255
320, 400	MH, PMH	1.6	453254

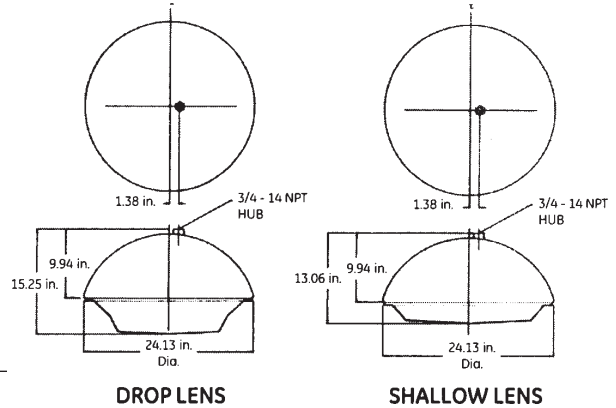
DATA

Approximate Net Weight 38-47 lbs 8-10 kgs

FIXTURE DIMENSIONS

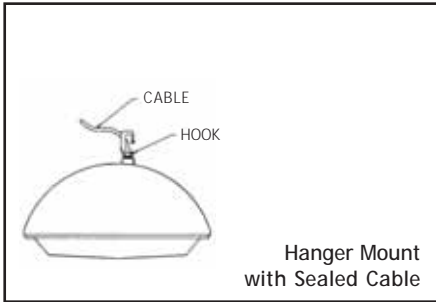
NOTE:

Shallow lens for 250W MH/PMH only.
Drop lens for all other wattages & lamp types.

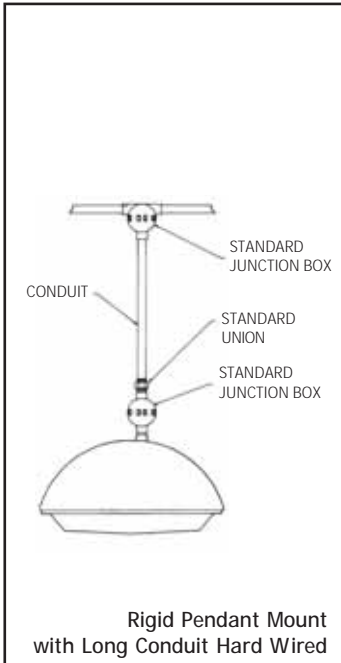


TYPICAL INSTALLATIONS

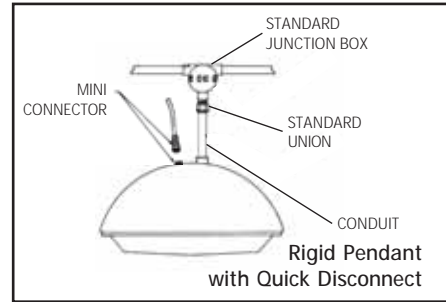
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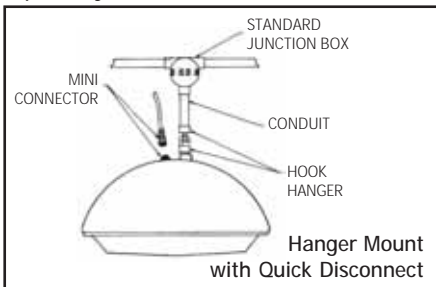
Mounting Code 11



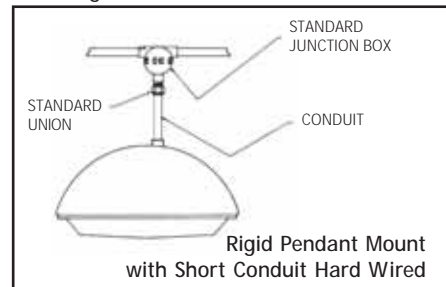
Mounting Code 93



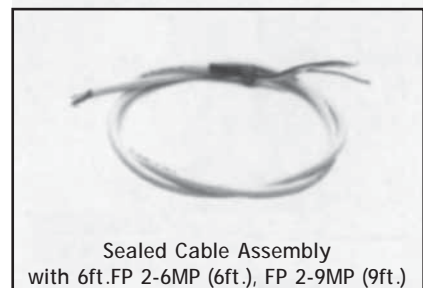
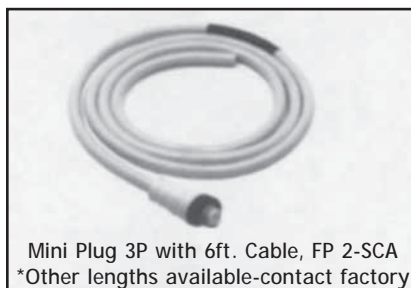
Mounting Code 93, order hook FP2-HOOK separately



Mounting Code 11



ACCESSORIES



GE Lighting Systems, Inc.
www.gelightingsystems.com

FOOD-PRO™ II LUMINAIRE





P-154 POWERFLOOD® FLOODLIGHT

UL844, UL 1598 Outdoor Salt Water

APPLICATIONS

- For general area, security and facade lighting

SPECIFICATION FEATURES

- 1598 Outdoor Salt Water Listed (formerly UL595)
- 844 Listed
 - Class I, Division 2, Groups A, B, C and D
- Heavy-duty die-cast aluminum housing
- Heat and shock-resistant tempered glass
- Heavy-gauge coated steel trunnion
- Corrosion-resistant hardware
- Convenient wiring box
- Hinged front door, secured with two corrosion-resistant screws
- Mogul base socket

ORDERING NUMBER LOGIC

P54H	07	S	0	H	1	6X6	DB	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	NEMA TYPE BEAM SPREAD HORIZ X VERT	COLOR	OPTIONS
XXXX	XX	X	X	X	X	XXX	XX	XXX
P54H = P-154 for UL844 Class I, Div. 2 and for UL 1598 Outdoor Salt Water	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 25 = 250 40 = 400	S = HPS M = MH CAUTION: For 400W MH, an E-18 or ED-28 lamp must be used. Standard: Lamp not included	60Hz* 0 = 120/ 208/ 240/277 MULTIVOLT 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 *For 50 Hz, contact factory	See Ballast and Photometric Selection Table A = Autoreg H = HPF Reactor or Lag M = Mag-Reg	1 = None	Select NEMA Type from Ballast and Photometric Selection Table Example: 6X6 = 6X6	DB = Dark Bronze	F = Fusing (Not available with multivolt or UL 1598 Outdoor Salt Water)

BALLAST AND PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Ballast Type Voltage		NEMA Type Beam Spread Horiz X Vert Degrees	Photometric Curve Number 35-17 - - - -
		Multivolt	120-480		
70, 100, 150 (55V)	HPS	H	H*	6X6 (126X128)	7346
200, 250, 400	HPS	A	A	7X6 (134X127)	7347
175	MH	A	A	7X6 (136X129)	7344
250, 400	MH	A	A	7X6 (137X120)	7455

NOTE: Lamp for 400 watt MH fixture must be E-18 or ED-28 only.
*480 Volt (M) Mag-Reg

CANADIAN NOTES:

Use P154 Powerflood Floodlight for Hazardous Location, P54C. Reference publication LSP-1120 (Can)

GE Lighting Systems, Inc.

www.gelightingssystem.com



P-154 POWERFLOOD® FLOODLIGHT

UL844, UL 1598 Outdoor Salt Water

NOTES

You must use temperature profile data to properly select luminaire.
See Page H-13.

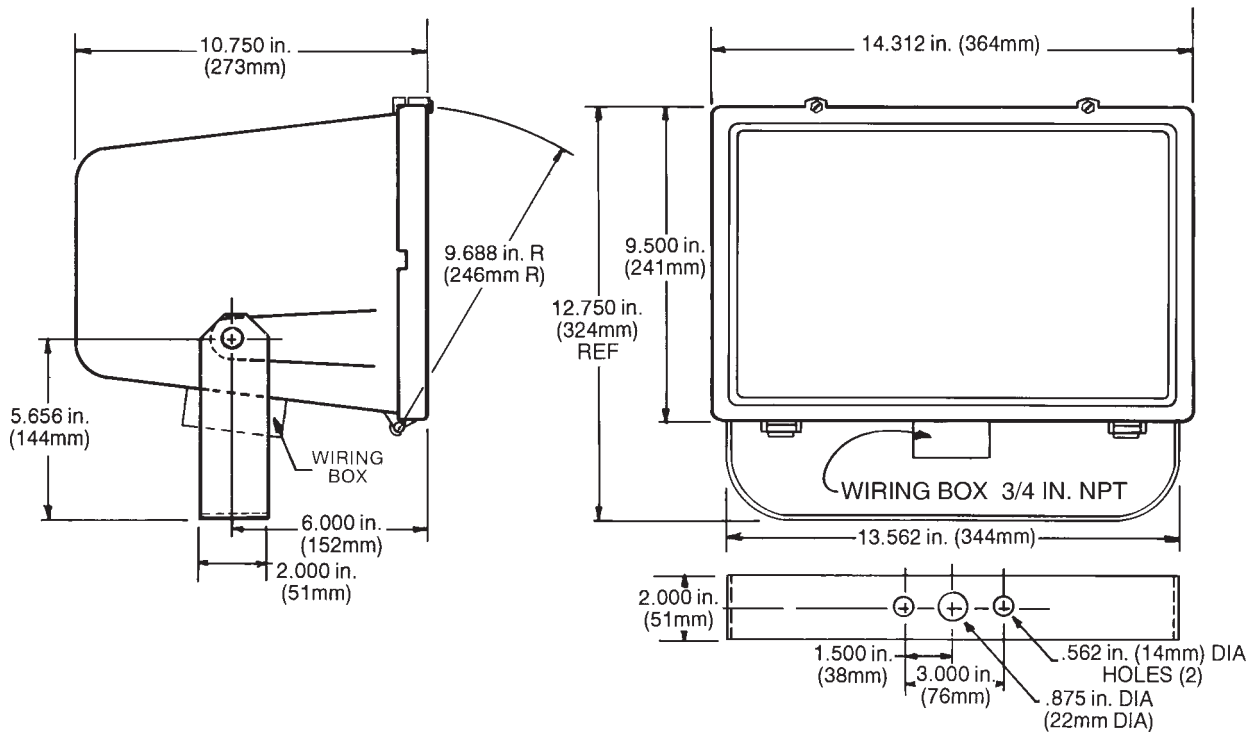
REFERENCES

See Pages H-13 for Temperature Profile.
See Pages H-44 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight	23-25 lbs	10-11 kgs
Effective Projected Area	1.4 sq. ft. max	0.13 sq. M max
Suggested Mounting Height	40 ft.	12 M

FIXTURE DIMENSIONS



P-154 POWERFLOOD HAZARDOUS LOCATION LIGHTING



ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

LEGEND: ////////////// = Accessory can be used.

INDEX	PRODUCT						
	Ordering Number	Powr•Gard®	H8	H7	Filtr•Gard®	Mini•Gard™	Perma•Gard®
ANGLED DOME REFLECTOR							
PMG-AR5							////////////////////
H2000-002**					////////////////////	////////////////////	
H7000-002*			////////////////////				
H8000-002		////////////////////					
H9000-002	////////////////////						
BALLAST SAFETY CHAIN							
SFC10-B					////////////////////	////////////////////	
SFC3-B					////////////////////	////////////////////	
SFC5-B					////////////////////	////////////////////	
SFC7-B					////////////////////	////////////////////	
DEEP DOME REFLECTOR							
H2000-006**					////////////////////	////////////////////	
H9000-006	////////////////////						
DOME REFLECTOR							
PMG-DR5							////////////////////
H2000-001**					////////////////////	////////////////////	
H7000-001*			////////////////////				
H8000-001		////////////////////					
H9000-001	////////////////////						
FUSE KIT (LESS FUSE) (For Non-hazardous areas only)							
H5000-FK1					////////////////////		
H5000-FK2					////////////////////		
GLOBES							
H2000-FNA						////////////////////	
H2000-FNB						////////////////////	
H2000-FNG						////////////////////	
H2000-FNR						////////////////////	
MOUNTING (Useable only with PMG-4PR Pendant Mounting)							
PMG-3WR							////////////////////
PMG-4WR							////////////////////
PMG-5SR							////////////////////
PMG-6SR							////////////////////

* H7000-001 and H7000-002 will not fit fixture with wall mounting.

** Use with globe type optical only.

HAZARDOUS LOCATION LIGHTING ACCESSORIES

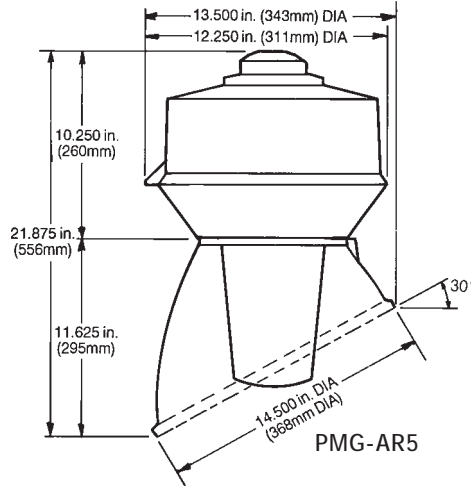


ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

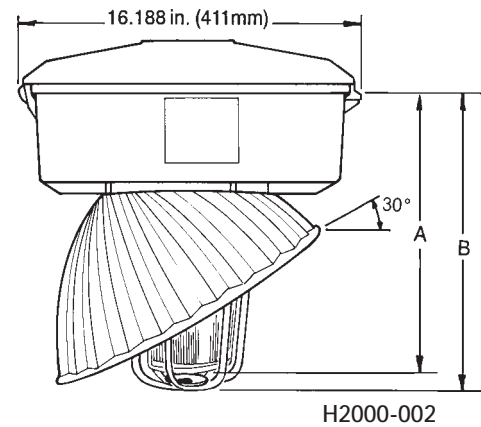
ANGLED DOME REFLECTOR

- **PMG-AR5**
15-inch (381mm) reflector.
Use with globe and guard.

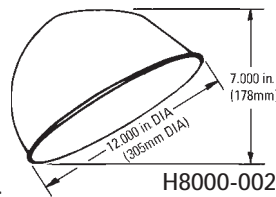


- **H2000-002**
With ALGLAS® finish.
Use with globe type optical only.

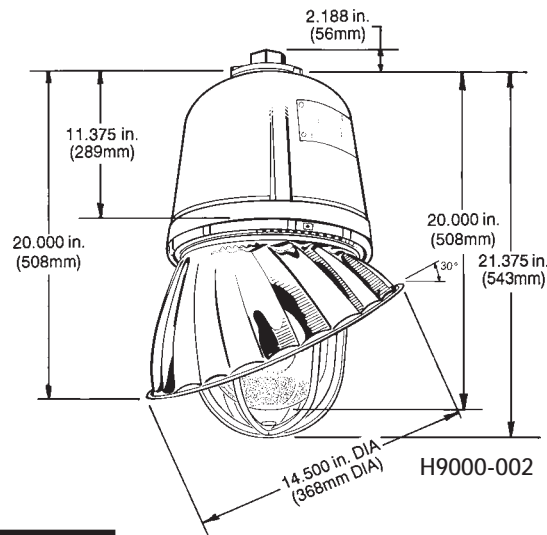
	9 in. (229mm)	7 in. (179mm)
A	13.250 in. (337mm)	11.750 in. (298mm)
B	13.625 in. (346mm)	12.125 in. (308mm)



- **H8000-002**
30° Angle reflector. Aluminum with highly reflective white paint.



- **H9000-002**
With ALGLAS® finish.



BALLAST SAFETY CHAIN

- **SFC10-B** • **SFC5-B**
10-ft. (3M) 5-ft. (1.5M)
- **SFC3-B** • **SFC7-B**
3-ft. (0.9M) 7-ft. (2M)

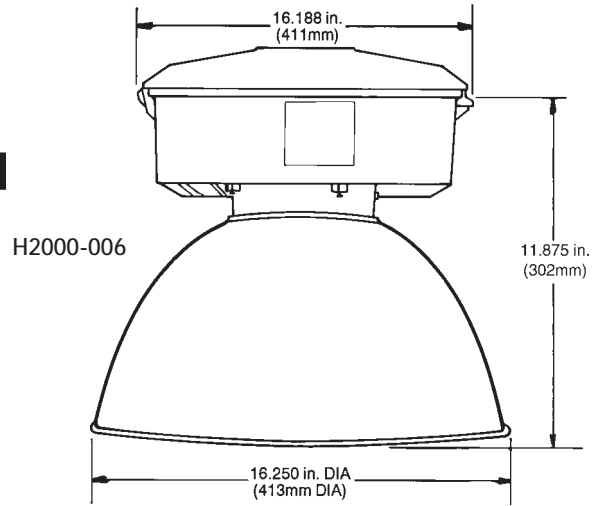


ACCESSORIES

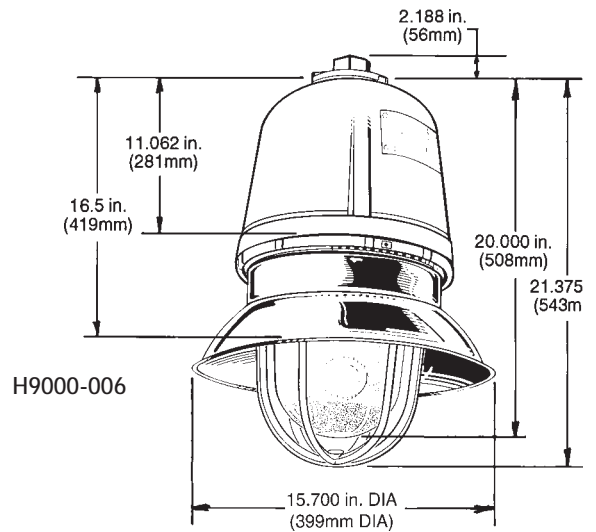
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

DEEP DOME REFLECTOR

- H2000-006
With ALGLAS® finish. Use with globe type optical only.

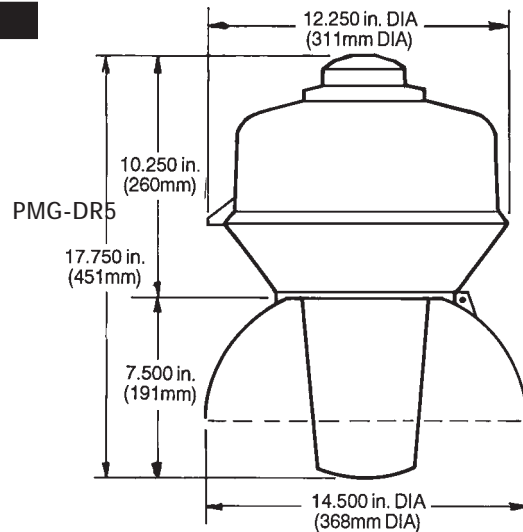


- H9000-006
With ALGLAS® finish. Not UL listed for Class II.



DOMe REFLECTOR

- PMG-DR5
15-inch (381mm) reflector. Use with globe and guard.



ACCESSORIES

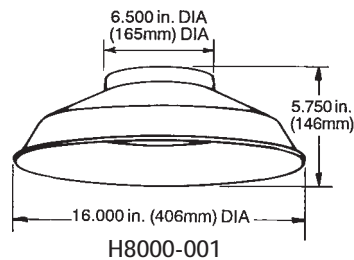
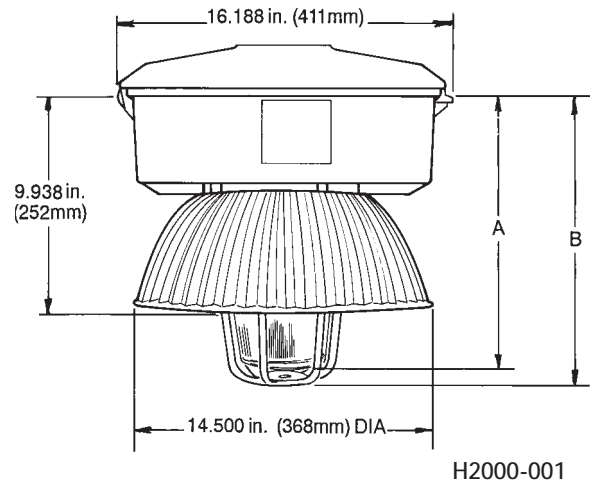
REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

DOME REFLECTOR

	9 in. (229mm)	7 in. (179mm)
A	13.250 in. 337mm	11.750 in. 298mm
B	13.625 in. 346mm	12.125 in. 308mm

- **H2000-001**

With ALGLAS® finish. Use with globe type optical only.

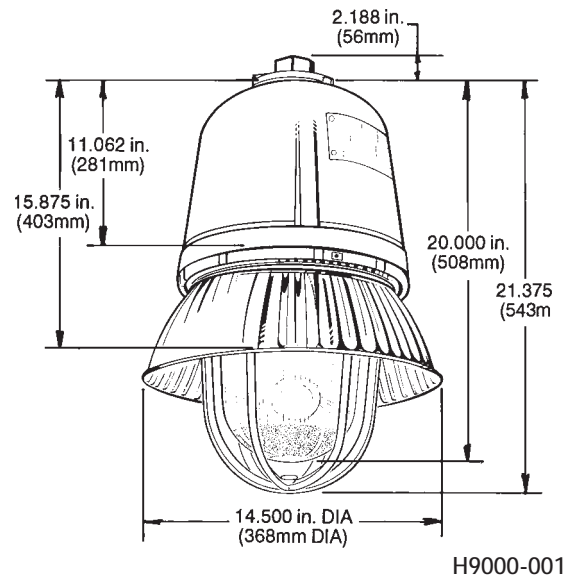


- **H8000-001**

Standard reflector. Aluminum with highly reflective white paint.

- **H9000-001**

With ALGLAS® finish.



FUSE KIT (LESS FUSE[S])

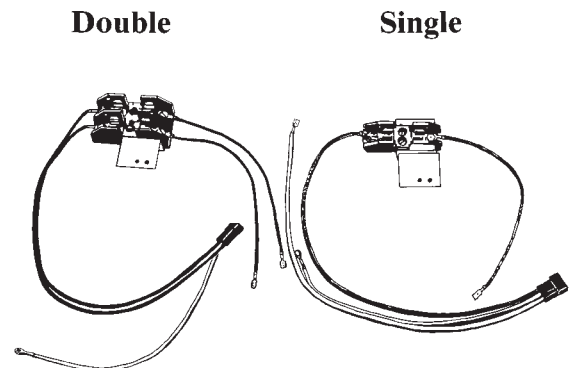
For Non-hazardous areas only

- **H5000-FK1**

Single

- **H5000-FK2**

Double



HAZARDOUS LOCATION LIGHTING ACCESSORIES

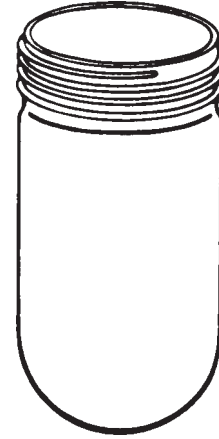


ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

GLOBES

- H2000-FNA*
Amber
- H2000-FNB*
Blue
- H2000-FNG*
Green
- H2000-FNR*
Red

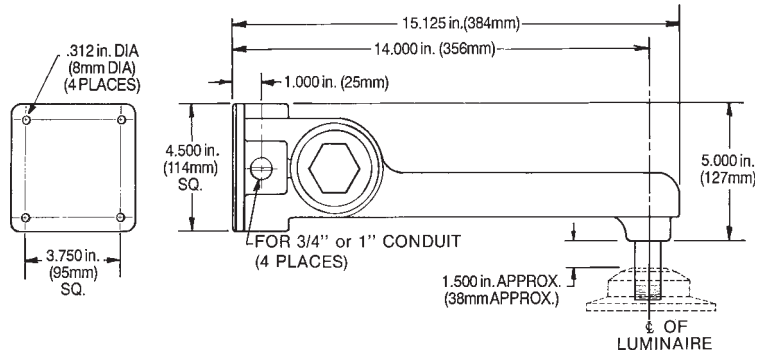


NOTE: * Fluorescent non-hazardous location only

MOUNTING

- PMG-3WR
Wall, 3/4-inch
Usable only with
PMG-4PR Pendant Mounting (Not Included)

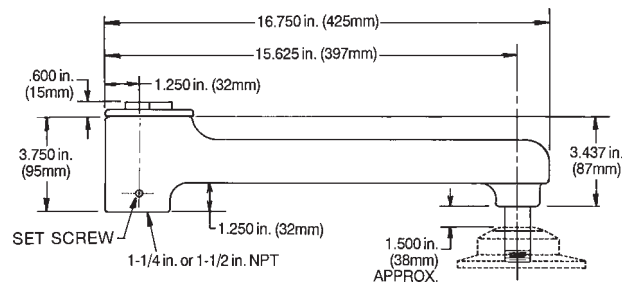
- PMG-4WR
Wall, 1-inch
Usable only with
PMG-4PR Pendant Mounting (Not Included)



Approximate Net Weight	PMG-3WR	6.5 lbs	2.4 kgs
	PMG-4WR	6.1 lbs	2.3 kgs

- PMG-5SR
Straight stanchion, 1-1/4-inch
Usable only with
PMG-4PR Pendant Mounting (Not Included)

- PMG-6SR
Straight stanchion, 1-1/2-inch
Usable only with
PMG-4PR Pendant Mounting (Not Included)



Approximate Net Weight	PMG-5SR	4.5 lbs	1.7 kgs
	PMG-6SR	4.8 lbs	1.8 kgs



COMPONENT ORDERING LOGIC

As shown below, components can be ordered separately. The ordering logic for components can be derived from the product ordering number logic shown above each product grouping. The groupings explain the procedure to derive component ordering numbers.

EXAMPLES:

POWR•GARD® LUMINAIRE UL844 UL1598 OUTDOOR SALT WATER (OPTIONAL)

COMPLETE UNIT NUMBER

H9 1 15S 3P JJ

PRODUCT ID. XX	VOLTAGE XX	WATTAGE/LIGHT SOURCE BALLAST TYPE XXX	MOUNTING XX	OPTICAL XX	OPTIONS Order "similar to (specify ordering number) except" on options other than fusing or quartz or UL1572 Outdoor Salt Water Marine.
-------------------	---------------	---	----------------	---------------	--

BALLAST AND OPTICAL COMPONENT LOGIC

H9 1 15S ** JJ

PRODUCT ID. XX	VOLTAGE XX	WATTAGE/LIGHT SOURCE BALLAST TYPE XXX	MOUNTING XX	OPTICAL XX
-------------------	---------------	---	----------------	---------------

MOUNTING COMPONENT LOGIC

H9000- 3P

PRODUCT ID. XX	MOUNTING XX
H9000- =	H9

PERMA•GARD® LUMINAIRE UL844, UL1598, NEMA 4X

COMPLETE UNIT NUMBER

PMGA 15 S 0 H X 3PR GG AR5 Q

PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	MOUNTING XXX	OPTICAL XX	SPECIFY ACCESSORIES (REQUIRED) XXX	SPECIFY OPTIONS (REQUIRED) XX
---------------------	---------------	-------------------	--------------	-------------------	-----------------	-----------------	---------------	---------------------------------------	----------------------------------

BALLAST COMPONENT LOGIC

PMGA 15 S 0 H X Q

PRODUCT ID. XXXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	SPECIFY OPTIONS (REQUIRED) XX
---------------------	---------------	-------------------	--------------	-------------------	-----------------	----------------------------------

OPTICAL COMPONENT LOGIC

PMG GN NG

PRODUCT ID. XXXX	OPTICAL XX
GN = Globe	NG = Guard

MOUNTING COMPONENT LOGIC

PMG- 3PR

PRODUCT ID. XXXX	MOUNTING XXX
---------------------	-----------------

ACCESSORY COMPONENT LOGIC

PMG- AR5

PRODUCT ID. XXXX	ACCESSORIES XXX
---------------------	--------------------

FILTR•GARD® LUMINAIRE UL844 UL1598 SUITABLE FOR WET LOCATIONS

COMPLETE UNIT NUMBER

H2 0 05L 3C GG

PRODUCT ID. XX	VOLTAGE X	WATTAGE/LIGHT SOURCE BALLAST TYPE (Standard Max. Ambient Temp is 40°C-for 55°C, 65°C, 90°C, contact factory) XXX	MOUNTING (Includes ballast cover) XX	OPTICAL Before Using See Temperature Profile Information (X)(X)(X)	OPTIONS XXX
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BALLAST COMPONENT LOGIC

H2 0 05L

PRODUCT ID. XX	VOLTAGE X	WATTAGE/LIGHT SOURCE BALLAST TYPE XXX
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MOUNTING COMPONENT LOGIC

H2000- 3C

PRODUCT ID. XX	MOUNTING XX
-------------------	----------------

OPTICAL COMPONENT LOGIC

H2000- GN NG

OPTIC CODE XX	DESCRIPTION	COMPONENT CATALOG NUMBER (ORDER OPTICAL AND GUARD SEPARATELY)
GG =	Small Globe (no guard)	H2000-GN
GG =	Small Guard only	H2000-NG
FG =	Large Globe (no guard)	H2000-FN
FG =	Large Guard only	H2000-NF
EG =	Enclosed highbay reflector (no guard)	H2000-EN
EG =	Enclosed highbay guard only	H2000-NE
V5G =	8 inch glass type 5 refractor (no guard)	H2000-V5N
V2G =	8 inch glass type 2 refractor (no guard)	H2000-V2N
V5/V2G =	8 inch glass refractor guard only	H2000-N08
R5G =	12 inch glass type 5 refractor (no guard)	H2000-R5N
R2G =	12 inch glass type 2 refractor (no guard)	H2000-R2N
R2/R5G =	12 inch glass refractor guard only	H2000-N12
W5G =	Universal glass refractor (no guard)	H2000-W5N
W5G =	Universal glass refractor guard only	H2000-N10
A5G =	12 inch acrylic type 5 refractor (no guard)	H2000-A5N
A2G =	12 inch acrylic type 2 refractor (no guard)	H2000-A2N
A2/A5G =	12 inch acrylic refractor guard only	H2000-N12
L5G =	12 inch polycarbonate type 5 refractor (no guard)	H2000-L5N
L2G =	12 inch polycarbonate type 2 refractor (no guard)	H2000-L2N
L5/L2G =	12 inch polycarbonate refractor guard only	H2000-N12

MINI•GARD™ LUMINAIRE UL844, UL1598 SUITABLE FOR WET LOCATIONS

COMPLETE UNIT NUMBER

MGH 15 S 1 H 4 3P GG F

PRODUCT ID. XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X	MOUNTING (INCLUDES BALLAST COVER) XX	OPTICAL (BEFORE USING SEE TEMPERATURE PROFILE INFORMATION) (X)(X)(X)	SPECIFY OPTIONS (REQUIRED) X
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BALLAST COMPONENT LOGIC

MGH 15 S 1 H 4

PRODUCT ID. XXX	WATTAGE XX	LIGHT SOURCE X	VOLTAGE X	BALLAST TYPE X	AMBIENT °C X
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MOUNTING COMPONENT LOGIC

MG- 3P

PRODUCT ID. XXX	MOUNTING XX
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OPTICAL COMPONENT LOGIC

H2000- GN NG

OPTIC CODE XX	DESCRIPTION	COMPONENT CATALOG NUMBER (ORDER OPTICAL AND GUARD SEPARATELY)
GG =	Small Guard only	H2000-NG
FG =	Large Guard only	H2000-NF
V5N =	8 inch glass type 5 refractor (no guard)	H2000-V5N
V2N =	8 inch glass type 2 refractor (no guard)	H2000-V2N
V5/V2G =	8 inch glass refractor guard only	H2000-N08

HAZARDOUS LOCATION LIGHTING COMPONENT ORDERING LOGIC



HAZARDOUS AND ADVERSE LOCATION DATA

EXPLANATION OF OPTIONS

F = FUSING (Not available with multivolt or dual voltage.)

(Not available 208, 240, 480, 600 volt with )

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V, 347V or two fuses for 208V, 240V, 480V.

Q = AUTOMATICALLY SWITCHED QUARTZ (TIME DELAY)

Most luminaires can be provided with automatically switched quartz/instant-on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same optical with the HID lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% of full light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output.

Caution should be utilized when sizing branch circuits for luminaires with this option since the luminaire will draw additional current during the warm-up period while both lamps (quartz and HID) are in operation.

Wiring for the quartz lamp is internal to the ballast assembly and the 120 volts to operate the quartz lamp is supplied by the ballast.

The 400 watt luminaires have a socket for one 250 watt single-ended DC (Double Contact) bayonet base quartz lamp. The 250 watt and lower wattage luminaires have a socket for one 150 watt single-ended DC bayonet base quartz lamp. Refer to TEMPERATURE PROFILE DATA pages for Limitations.

U = UL1598 OUTDOOR SALT WATER (formerly UL595)/UL844
Equipment is UL1598 Outdoor Salt Water Marine Listed, Suitable for Outdoor Salt Water Marine Use, as well as UL844 Listed for Hazardous Locations.

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages - 120, 208, 240 or 277.

HOT RESTART

The hot lamp restart feature is a ballast choice for some HPS luminaires. (See product pages for availability and ordering information.) During initial energization (cold start) HPS lamps have a two to three minute warm-up period. After stabilization, a momentary power interruption may cause the lamp to go out and it will not restrike for some period of time, approximately one minute for HPS lamps. Under normal conditions there is a delay of two to three minutes before full light output is achieved after a momentary power interruption. "Hot restart" will restart an HPS lamp instantly and at essentially the same lumen output even after outages of up to ten (10) seconds. For outages of up to thirty (30) seconds, it will restart the HPS lamp instantly but at slightly reduced lumens for a short period of time. This feature does not affect, or accelerate, initial cold start.

HAZARDOUS LOCATION CLASSIFICATION

The classification of a given area as to Class, Division, and Group is solely the judgement of **THE OWNERS, INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION.**

TEMPERATURE CODE TABLE

The temperature Code Table Figure 1 matches identification numbers with the maximum temperature range in degrees Celsius (C) that they represent. These codes are used in luminaire Temperature Profile Data tables for GE hazardous location luminaires.

Figure 1

TEMPERATURE CODE TABLE	
Identification Range Number	Maximum Temperature Degrees C
T1	450
T2	300
T2A	280
T2B	260
T2C	230
T2D	215
T3	200
T3A	180
T3B	165
T3C	160
T4	135
T4A	120
T5	100
T6	85

TEMPERATURE CONVERSION FORMULAS

Celsius to Fahrenheit	Fahrenheit to Celsius
$F = 1.8C + 32$	$C = \frac{F - 32}{1.8}$

NEMA DECAL

GE puts a NEMA identification decal on the outside of the ballast housing of each hazardous location luminaire. The color of the decal indicates the light source and the number, the lamp wattage (see Figure 2).

Figure 2

NEMA DECAL	
Color Coding/Light Source	Numeric Coding/Wattage
Yellow = High Pressure Sodium	05 = 50 07 = 70
Red = Metal Halide	10 = 100 15 = 150
Light Blue = Mercury	17 = 175 20 = 200 25 = 250 40 = 400 75 = 750

EFFECT OF CHEMICALS AND SOLVENTS ON ACRYLIC AND POLYCARBONATE RESIN REFRACTORS

Acrylic is resistant to dilute solutions of strong acids and alkalis, aliphatic petroleum oils, aliphatic hydrocarbons, and dilute alcohols. It is not resistant to concentrated alkalis and oxidizing acids, the lower ketones, ester, aromatic and halogenated hydrocarbons, and lacquer thinners. Naturally, the resistance to the various chemicals will vary with the concentration and the temperature of the environment.

Polycarbonate resin has good resistance at room temperature to water, dilute inorganic and organic acids, solutions of neutral and acid salts, vegetable oils, aliphatic hydrocarbons, ethers and alcohols. It is readily dissolved by certain halogenated solvents such as methylene chloride, 1, 2 dichloroethane, and chloroform. Loss of properties can result from contact with low molecular weight aldehyde and ethers, ketones, esters, aromatic hydrocarbons, and perchlorinated hydrocarbons. Chemical attack occurs in contact with alkali, alkaline salts and amines.



Roadway Lighting

[BACK TO MAIN INDEX](#)

Products	R-1
Tiger™	R-2
Nexell™	R-4
M-250A2 Powr/Door®	R-6
M-250A2 Powr/Door® Cutoff	R-8
M-250R2	R-10
M-250R2 Cutoff	R-12
M-400A Powr/Door®	R-14
M-400A Powr/Door® Cutoff	R-16
M-400	R-18
M-400A Cutoff	R-20
Versaflood® II Signlighter	R-22
Versaflood® III Induction	R-24
Turnpike™	R-26
Tunnel Guard™	R-28
High Mast	R-30
Skygard™ Powr/Bracket®	R-32
Powr/Bracket® Unit Packs	R-34
Skygard™ 201SA Unit Pack	R-36
201SA Unit Pack	R-38
Solaris™	R-40
Epoxy Encapsulated Ballast	R-42
Replacer™ Ignitor Kit	R-44
Replacer™ Ballast Kits	R-45
Accessories	R-48
Data	R-52

ROADWAY LIGHTING

R

LOOK FOR THIS TAB ON ANY PAGE TO RETURN TO THE ROADWAY LIGHTING INDEX



imagination at work

ROADWAY LUMINAIRES INDEX

	PRODUCT NAME	PRODUCT ID.	PAGE
	Tiger™	TGSM, TGTM	R-2
	Nexell™	NEXL, NEXS	R-4
	M-250A2 Powr/Door®	M2AR	R-6
	M-250A2 Powr/Door® Cutoff M2AC		R-8
	M-250R2	M2RR	R-10
	M-250R2 Cutoff	M2RC	R-12
	M-400A Powr/Door®	MDRA/MDRL	R-14
	M-400A Powr/Door® Cutoff	MDCA/MDCL	R-16
	M-400	MSRL	R-18
	M-400 Cutoff	MSCL	R-20
	Versaflood® II Signliter	V2FN, V2FS	R-22
	Versaflood® III Induction	V3SL, V3ST	R-24
	Turnpike™	RPFS, RPFT	R-26
	Tunnel Guard™	TUN	R-28
	High Mast	HMAA	R-30
	Skygard™ Powr/Bracket®	SGP	R-32
	Powr/Bracket® Unit Packs	PBS, PBP	R-34
	Skygard™ 201SA Unit Pack	SGR	R-36
	201 SA Unit Packs	SAM	R-38
	Solaris™	S26L, S27L, S39L, S40L	R-40
	Epoxy Encapsulated Ballasts ENC		R-42
	Replacer Ignitor Kit		R-44
	Replacer Ballast Kits	GERB	R-45
	Accessories		R-48
	Data		R-52

TIGER™



APPLICATIONS

- For roadways, highways, parkways, and commercial applications. Flexible design allows for glare control and offset lighting. Ideal for interchanges and toll booths.

SPECIFICATION FEATURES

Common Features

- Die cast aluminum housing with electrocoat primer and powder paint standard
- Concealed continuous door gasket seals entire fixture against dirt, dust and insects
- Tool-less entry
- Charcoal filter
- Integral mounting features for shielding
- Low profile hinges and latches
- Alglas reflector finish
- Electrical components mounted in housing (not on door)
- Multiple photometric configurations and distributions (flat, sag and prismatic)
- Tenon mounting w/ full range of adjustability from 0 to 45 degrees
- Tether for slipfitter cap
- 2g vibration standard (3g contact factory)
- Bi-Level System 3 available – contact factory – horizontal mounting

- Autoreg ballast
- 250, 400 watt HPS or Metal Halide
- 1598 Listed Wet Location
- Listed to Canadian standards and codes

TIGER with TRAY MOUNTED BALLAST

- Wide array of ballast types, wattages and voltages available
- All electricals removable for repair/replacement
- Optional 1598 Listed Wet Location
- Optional Listed to Canadian standards and codes

TIGER with SNAPDRIVE

- Multiple options on one platform
- Cuts inventory and maintenance cost
- Removes quickly, reducing weight for installation, re-installs quickly
- Quick configuration of multiple wattages and voltages

ORDERING NUMBER LOGIC – TIGER with SnapDrive™

TGSM	25	S	1	A	2	BF	1K	XX	XXX
PRODUCT IDENT XXXX	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	PHOTOMETRIC DISTRIBUTION	MOUNTING	COLOR	OPTIONS
TGSM = Tiger with SnapDrive TCSM = Tiger with SnapDrive (for CANADA)	25 = 250 40 = 400	S = HPS M = MH	60Hz 0 = MV 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120/240 CANADA ONLY: D = 347v P = 120/277/ 347	A = AUTOREG	1 = None 2 = PE Recp.	AF = Narrow Roadway/Flat Glass BF = Medium Roadway/Flat Glass CF = Forward Throw/Flat Glass DG = Wide Roadway Staggered/ Sag Glass EG = Wide Roadway opposite/ Sag Glass DR = Wide Roadway/Prismatic Glass/Staggered FF = Extra Wide Roadway / Flat Glass FG = Extra Wide Roadway / Sag Glass ER = Wide roadway prismatic opposite	1K = Aimed Low - Adjustable Tenon Mount (Set @ Zero) 2K = Aimed High - Adjustable Tenon Mount (Set @ 45°) ES = External slipfitter for 2 3/8" OD H4 = Horizontal, 4 bolt external slipfitter	BL = Black DB = Dark Bronze GR = Gray WH = White XX = Special	B = Time Delay Switched Quartz F = Fusing (Not available in Multivolt) XXX = SPECIAL OPTIONS

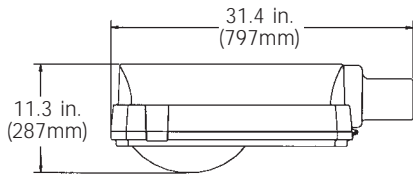
ORDERING NUMBER LOGIC – TIGER with TRAY MOUNTED BALLAST

TGTM	25	S	1	N	1	BF	1K	XX	XXX
PRODUCT IDENT XXXX	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	PHOTOMETRIC DISTRIBUTION	MOUNTING	COLOR	OPTIONS
TGTM = Tiger with Tray Mounted Ballast	25 = 250 40 = 400	S = HPS M = MH	60Hz 0 = MV 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 CANADA ONLY: D = 347v P = 120/277/ 347	A = AUTOREG G = Mag-reg with grounded socket shell H = HPF Reactor or Lag M = Mag-reg N = NPF Reactor or Lag P = CWI with Grounded socket shell	1 = None 2 = PE Recp.	AF = Narrow Roadway/Flat Glass BF = Medium Roadway/Flat Glass CF = Forward Throw/Flat Glass DG = Wide Roadway Staggered/ Sag Glass EG = Wide Roadway opposite/ Sag Glass DR = Wide Roadway/Prismatic Glass FF = Extra Wide Roadway / Flat Glass FG = Extra Wide Roadway / Sag Glass ER = Wide roadway prismatic opposite	1K = Aimed Low - Adjustable Tennon Mount 2K = Aimed High - Adjustable Tennon Mount ES = External slipfitter for 2 3/8" OD H4 = Horizontal, 4 bolt external slipfitter	BL = Black DB = Dark Bronze GR = Gray WH = White XX = Special	B = Time Delay Switched Quartz F = Fusing (Not available in Multivolt) U = cUL/UL Listed 002 = Ignitor Shut-off Device (ISD) protected ignitor XXX = SPECIAL OPTIONS

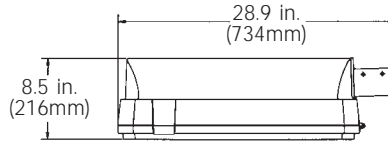
TIGER ROADWAY LIGHTING

R

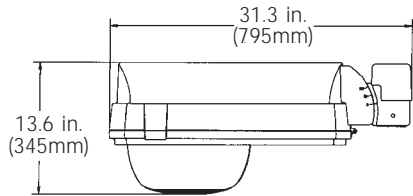
FIXTURE DIMENSIONS — EXAMPLES OF DIFFERENT OPTICS AND MOUNTINGS AVAILABLE



SHALLOW GLASS WITH H4 MOUNTING (2 3/8" OD)



FLAT GLASS WITH ES MOUNTING (2 3/8" OD)



PRISMATIC GLASS WITH 1K (or 2K) MOUNTING (2 3/8" OD)

PHOTOMETRIC SELECTION TABLE

NON-OFFSET APPLICATIONS (MINIMAL SETBACK <20°)

Wattage	Light Source	Narrow Roadway-A		Medium Roadway-B		Wide Roadway-C		Extra Wide Roadway-F	
		AF-Flat Glass	AG-Clear Drop	BF-Flat Glass	BG-Clear Drop	CF-Flat Glass	CG-Clear Drop	FF-Flat Glass	FG-Clear Drop
250	HPS	452916	452997	452914	452998	452912	452995	453007	452996
250	MH	452915	453002	452913	453001	452911	453000	453008	452999
400	HPS	452910	452945	452919	452944	452918	452943	452942	452941
400	MH	452920*	453006	452917*	452989	452909*	452988	453009*	452991

*Requires us of ED-28 Lamp

PHOTOMETRIC SELECTION TABLE

OFFSET ROADWAY APPLICATIONS (SETBACK >20°)

Wattage	Light Source	Offset Roadway-Opposite		Offset Roadway-Staggered	
		EG-Clear Drop	ER-Refractor	DG-Clear Drop	DR-Refractor
250	HPS	452903	453010	452904	453013
250	MH	452907	453011	452908	453014
400	HPS	452901	453005	452902	453004
400	MH	452906	453012	452905	453015

TIGER with TRAY MOUNTED BALLAST

BALLAST SELECTION TABLE

Fixture	Wattage	Ballast Type									
		60 Hz									
		Light Source	120/208 240/277	120	208	240	277	480	347	120/240	347 120/347 120/277/347
TGTM	250	HPS	A,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M,P	A,G,M,P	A,M,P
TGTM	400	HPS	A,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	A,G,M
TGTM	250	MH	A	A	A	A	A	A	A	A	A
TGTM	400	MH	A	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A,P

TIGER with SNAPDRIVE

BALLAST SELECTION TABLE

Fixture	Wattage	Ballast Type									
		60 Hz									
		Light Source	120/208 240/277	120	208	240	277	480	347	120/277/ 347	
TGSM	250, 400	HPS	A	A	A	A	A	A	N/A	N/A	
TGSM	250, 400	MH	A	A	A	A	A	A	N/A	N/A	
TCSM	250, 400	HPS	N/A	A	N/A	N/A	A	N/A	A	A	
TCSM	250, 400	MH	N/A	A	N/A	N/A	A	N/A	A	A	

DATA

Approximate Net Weight	lbs	kgs
Flat	35-45	16-20 kg
Sag/Prismatic	40-50	18-23 kg
Effective Projected Area		
Flat	1.8 sq. ft.	.167 sq m
Sag/Prismatic	2.2 sq. ft.	.204 sq m

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 Data subject to change without notice

Nexell™

APPLICATIONS

- Roadways, highways, parking lots, downtown, and residential areas

SPECIFICATION FEATURES

- Completely sealed and silicone gasketed optical for performance and reliability
- Versatile mounting options for pole or post top mounting
- Toolless entry
- Toolless lamp replacement
- Top opening for easy access to ballast compartment and lamp
- Reflector optimized for Small Target Visibility and luminance
- Die cast aluminum housing
- Powder coat paint available in 188 different colors
- Bold new aesthetically pleasing design
- Tray mounted ballast components with plug-in ignitor
- Tempered soda lime clear glass
- (UL)/UL listing available with quick disconnect feature
- "Dead Back" Tunnel Type, FRP Terminal Board
- Extruded aluminum latch
- EPA: NEXL —1.07 ft 2 (0.10 m²)
NEXS —0.75 ft 2 (0.07 m²)
- Slipfitter adjust 0° - 10°
- Slipfitter horizontal mast arm mounted accomodates 1.5 inch to 2.5 inch OD pipe (38mm to 64mm) with 3.5 - 4.5 inch (89mm - 114mm) length penetration
- Slipfitter vertical post top mounted accomodates 2 inch to 3 inch OD pipe (51 mm to 76mm) with 3 inch to 4 inch (76mm to 102mm) length penetration



Large Fixture

ORDERING NUMBER LOGIC

NEXL	40	S	1	N	1	MC2	BLCK	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	DISTRIBUTION COLOR	COLOR	OPTIONS
XXXX = Nexell	XX = 25 = 250 40 = 400	X = S = HPS M = MH Lamp Included	X = 0 = Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	X = A = Autoreg H = HPF Reac. or Lag N = NPF Reac. or Lag	X = 1 = None 2 = PE Receptacle	X = S = Short M = Medium C = Cutoff S = Semi-Cutoff N = Non-Cutoff 1 = Type 1 2 = Type 2 3 = Type 3	X = WHITE = White BLCK = Black DKBZ = Dark Bronze GRAY = Gray (ecoatonly) ALUM = Aluminum FGRN = Forest Green CHGR = Charcoal Gray XXXX = RAL Number	XXX = F = Fused U = UL/cUL Listed P = Prewire with 6' of 14/3 cable

Small Fixture

ORDERING NUMBER LOGIC

NEXS	10	S	1	N	1	SC2	BLCK	XXX
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	DISTRIBUTION COLOR	COLOR	OPTIONS
XXXX = Nexell	XX = 70 = 70 10 = 100 15 = 150 17 = 175	X = S = HPS M = MH Lamp Included	X = 0 = Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347	X = A = Autoreg H = HPF Reac. or Lag M = Mag Reg N = NPF Reac. or Lag	X = 1 = None 2 = PE Receptacle	X = S = Short M = Medium C = Cutoff S = Semi-Cutoff N = Non-Cutoff 1 = Type 1 2 = Type 2 3 = Type 3	X = WHITE = White BLCK = Black DKBZ = Dark Bronze GRAY = Gray (ecoatonly) ALUM = Aluminum FGRN = Forest Green CHGR = Charcoal Gray XXXX = RAL Number	XXX = F = Fused U = UL/cUL Listed P = Prewire with 6' of 14/3 cable

NEXELL™ ROADWAY LIGHTING



BALLAST SELECTION TABLE

Wattage	Light Source	Multivolt	120	208	240	277	347	120X 347	480
70	HPS	A,H,N,M	A,H,N,M	H,N,M	H,N,M	H,N,M	A,H,N,M	A	A,H,N,M
100	HPS	A,H,N,M	A,H,N,M	A,H,N,M	H,N,M	H,N,M	A,H,N,M	A	A,H,N,M
150	HPS	A,H,N,M	A,H,N,M	A,H,N,M	H,N,M	H,N,M	A,H,N,M	A	A,H,M
250	HPS	A	A,H,N	A	A	A	A	N/A	A
400	HPS	A	A	A	A	A	A	N/A	A
70	MH	HN	HN	HN	HN	H,N	HN	N/A	HN
100	MH	HN	HN	HN	HN	H,N	HN	N/A	HN
150	MH	A	A	A	A	A	A	N/A	A
250	MH	A	A	A	A	A	A	N/A	A
400	MH	A	A	A	A	A	A	N/A	A

A = AUTOREG

H = HPF REAC. or LAG

N = NPF REAC. or LAG

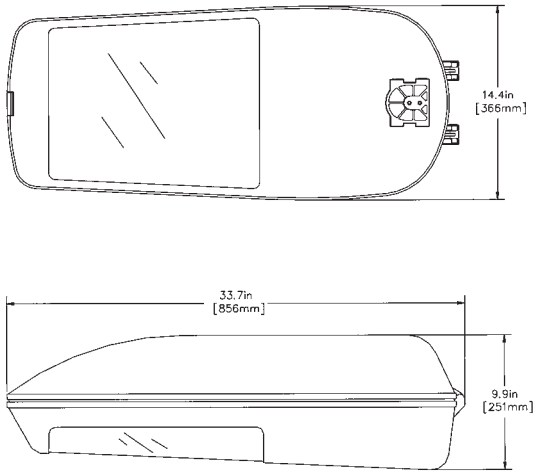
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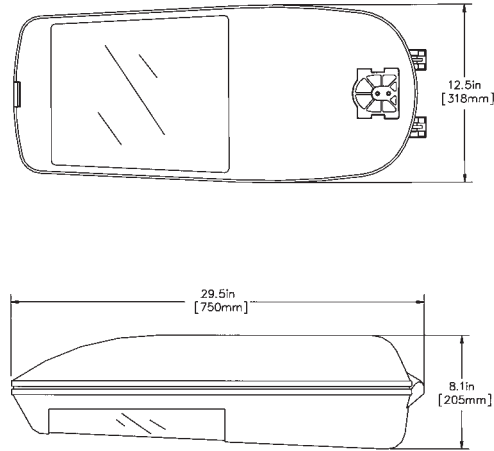
Nexell™

FIXTURE DIMENSIONS

Large Fixture
NEXL



Small Fixture
NEXS



PHOTOMETRIC SELECTION TABLE

LARGE FIXTURE - NEXL

Wattage	Lamp	Socket Type	Dist	Socket Position	Curve
250	HPS	Mogul	MC2	A4	452685
250	HPS	Mogul	MS2	D6	452686
250	HPS	Mogul	SC2	B1	452687
250	MH	Mogul	SC2	C2	452688
250	MH	Mogul	SC3	D0	452689
400	HPS	Mogul	MS2	D6	452690
400	HPS	Mogul	SC2	B6	452691
400	MH	Mogul	SC2	C1	452692

PHOTOMETRIC SELECTION TABLE

SMALL FIXTURE - NEXS

Wattage	Lamp	Socket Type	Dist	Socket Position	Curve
70	HPS	Mogul	SC2	D4	452677
70	MH	Medium	SC2	C3	452693
70	MH	Medium	SS1	D4	452694
70	MH	Medium	MN1	D6	452695
100	HPS	Mogul	SC2	C3	452696
100	HPS	Mogul	SS2	D4	452697
100	HPS	Mogul	MS1	D5	452698
100	MH	Medium	SC2	C3	452699
100	MH	Medium	SS2	D4	452700
100	MH	Medium	MN1	D6	452701
150	HPS	Mogul	SC2	D4	452702
150	HPS	Mogul	SS2	D5	452703
150	HPS	Mogul	MS2	D6	452704
175	MH	Mogul	SC1	D4	452705
175	MH	Mogul	MS1	D6	452706

DATA

Suggested Mounting Height - NEXS	20-40 ft.	6 - 12 M
Suggested Mounting Height - NEXL	30-50 ft.	9 - 16 M
Weight - NEXS	32 lbs.	14.5 kg
Weight - NEXL	42 lbs.	19 kg

M-250A2 POWR/DOOR® LUMINAIRE



APPLICATIONS

- For residential streets, parking lots and roadways

SPECIFICATION FEATURES

- Powr/Module ballast assembly
- Filtered optics
- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (street side) – E39 standard
- ALGLAS® finish on reflector
- No-tool PE receptacle
- Plug-in ignitor
- External stainless steel bail latch
- Plastic Pest guard standard (not required for 2 in. pipe)
- Ⓛ/Ⓛ listed for wet location available as an option

ORDERING NUMBER LOGIC

M2AR	15	S	1	N	2	G	MS2	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE (PRISMATIC) REFRACTOR	IES DISTRIBUTION TYPE	FILTER	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	X	XXX
M2AR = M-250A2	05 = 50 07 = 70 10 = 100 15 = 150 (55 V) 17 = 175 20 = 200 25 = 250	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = 120/ 208/ 240/ 277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not re-connectable D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell S = Series (in Top Housing)	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	See Photometric Selection Table A = Acrylic G = Glass L = Polycarbonate NOTE: 150 watt Maximum with Acrylic or Polycarbonate Refractors.	See Photometric Selection Table M = Medium L = Long F = Four-(Way) S = Semi-cutoff N = Non-cutoff W = (Four)-Way 2 = Type II 3 = Type III 4 = Type IV	1 = Fiber gasket 2 = Char-coal with elastomer gasket	F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Explosion Type U = Ⓛ/Ⓛ listed (all HPS up to 175W MH max) with glass or polycarbonate refractor

M-250 ROADWAY LIGHTING

R

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Lens Type (Prismatic Refractor)	IES Distribution Type Photometric Curve Number 35-17---- (Socket Position) All light sources are clear unless otherwise indicated						
			LN3	LN4	MN2	MN3	MS2	MS3	FW3
50, 70, 100, 150 (55 V)	HPS	Acrylic	N/A	N/A	7232(1A)	7233(2A)	7230(2B)	7231(2.5B)	N/A
50, 70, 100, 150 (55 V)	HPS	Glass	N/A	N/A	7236(1A)	7237(2A)	7234(1.5B)	7235(2.5B)	7268(1A)
50, 70, 100, 150 (55 V)	HPS	Polycarb.	7254(1A)	7255(2A)	N/A	7252(2B)	N/A	N/A	N/A
200, 250,	HPS	Glass	N/A	N/A	N/A	N/A	7263(2DH)	7262(1DH)	N/A
175, 250 100, 175, 250	MH Merc	Glass	N/A	N/A	7283(1A)	7275(2A)	7276(1B)	7277(2B)	7270(1A)

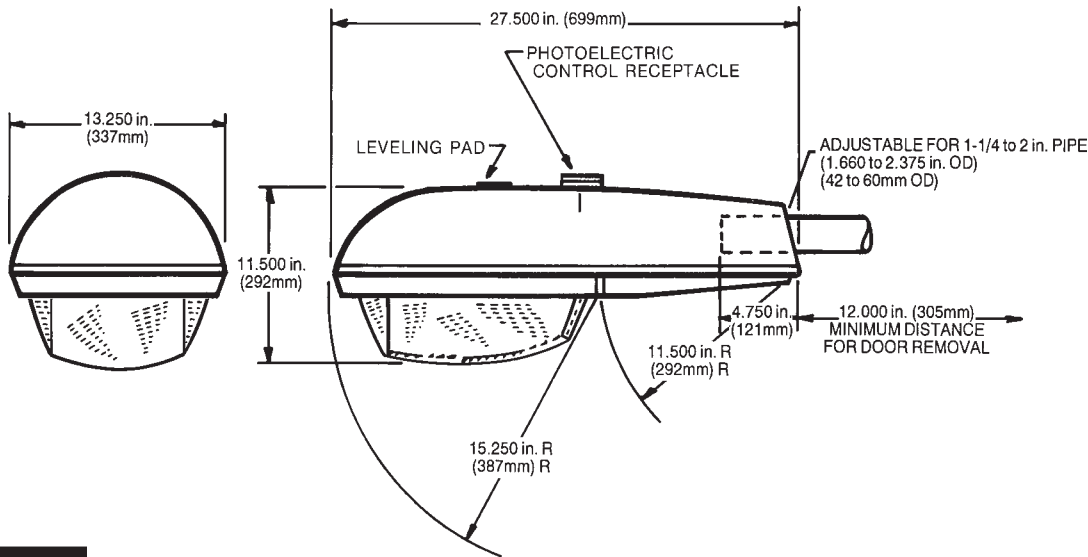
NOTE: N/A = Not Available

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M-250A2 POWR/DOOR® LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	20-30 lbs	9-14 kgs
Effective Projected Area	0.7 sq. ft. max	0.07 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage													
		60Hz										50Hz			
		Multi-volt	120	208	240	277	480	120X240	347, 120X347	240/120 PE R	220	220	230	240	
50	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	N/A	N/A	N/A	N/A
70,100,150 (55V)	HPS	A,H,N	A,G,H,M,N,P	A,G,H,M,N	A,G,H,M,N,P	G,H,M,N	G,M	G,M,P	G*,H,M*,N	G,M,N	N/A	N/A	H,M,N	H	M††
100/150 (55V)	HPS	N/A	H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200	HPS	A,P	A,H,N,P	A,H,N,P	A,H,N,P	A,P	A	A,P	P	A,H,N	N/A	N/A	N/A	N/A	N/A
250	HPS	A,P	A,H,N,P	A,H,N,P	A,H,N,P	A,P	A,P	A,P	A,P	A,H,N	H	A,H,N	H	A,H	
175, 250	MH	A	A,P	A,P	A,P	A,P	A,P†	A,P	A,P	A	N/A	A	N/A	N/A	N/A
100, 175, 250	Merc	C	C,N	C	C,H,N	C	C	C	C/F	C,H,N	N/A	N/A	N/A	N/A	N/A

NOTE: N/A = Not Available
 † Not available in 175W
 †† 150(55V) only
 *Not available in 120X347V
 C/F = Contact factory

M2AR — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
M2AR10S1N2AMS21	100	HPS	120	NPF Reactor	Acrylic	MS2
M2AR15S1N2AMS31	150	HPS	120	NPF Reactor	Acrylic	MS3
M2AR25SOA2GMS31	250	HPS	Multivolt	Auto-Regulator	Glass	MS3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-250 ROADWAY LIGHTING

R

M-250A2 POWR/DOOR® LUMINAIRE WITH CUTOFF OPTICS



APPLICATIONS

- For residential streets, access roads, parking lots where light trespass could be a problem

SPECIFICATION FEATURES

- Powr/Module ballast assembly
- Filtered optics
- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (street side) – E39 standard
- ALGLAS® finish on reflector
- No-tool PE receptacle
- Plug-in ignitor
- True 90° cutoff—no light above 90° (meets RP8-2000 for full cutoff)
- External stainless steel bail latch
- Ⓞ/Ⓞ listed for wet location available as an option
- Plastic pest guard standard (not required for 2 in. pipe)

ORDERING NUMBER LOGIC

M2AC	15	S	1	N	2	G	MC3	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	FILTER	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	X	XXX
M2AC = M-250A2 with Cutoff Optics	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 21 = 100/150 (55V) 25 = 250 71 = 70/100 NOTE: Dual wattage connected for lower wattage	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell S = Series (in Top Housing)	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	See Photometric Selection Table A = Acrylic Clear Globe G = Glass L = Polycarbonate Clear Globe S = Sag Glass Clear Globe NOTE: 150 watt Maximum with Acrylic or Polycarbonate Clear Globes.	See Photometric Selection Table S = Short M = Medium C = Cutoff 2 = Type II 3 = Type III	1 = Fiber gasket 2 = Charcoal with elastomer gasket	F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type U = Ⓞ/Ⓞ listed (all HPS and up to 175W MH) with glass or polycarbonate

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Lens Type	IES Distribution Type Photometric Curve Number (Socket Position) All light sources are clear unless otherwise indicated.		
			MC2	MC3	SC2
50, 70, 100, 150 (55v)	HPS	Clear globe, acrylic or Polycarbonate	N/A	177287 (1A)	N/A
50	HPS	Clear globe, glass	452543 (2CL)	452544 (1CL)	N/A
70	HPS	Clear globe, glass	452545 (3CL)	452546 (1CL)	N/A
100	HPS	Clear globe, glass	452547(2CL)	452548 (1CL)	N/A
150 (55v)	HPS	Clear globe, glass	452549 (2CL)	452550 (1CL)	N/A
50, 70, 100, 150 (55v)	HPS	Glass, flat	177286 (2CL)	177285 (1CL)	N/A
200	HPS	Clear globe, glass	452551 (2CH)	452552 (2DL)	N/A
250	HPS	Clear globe, glass	N/A	452553 (2CH)	N/A
200, 250	HPS	Glass, flat	177303 (2DH)	177304 (1DH)	N/A
175, 250	MH	Glass, flat	N/A	N/A	177299(1B)
100, 175, 250	Merc	Glass, flat	N/A	N/A	177299(1B)

NOTE: N/A=Not Available

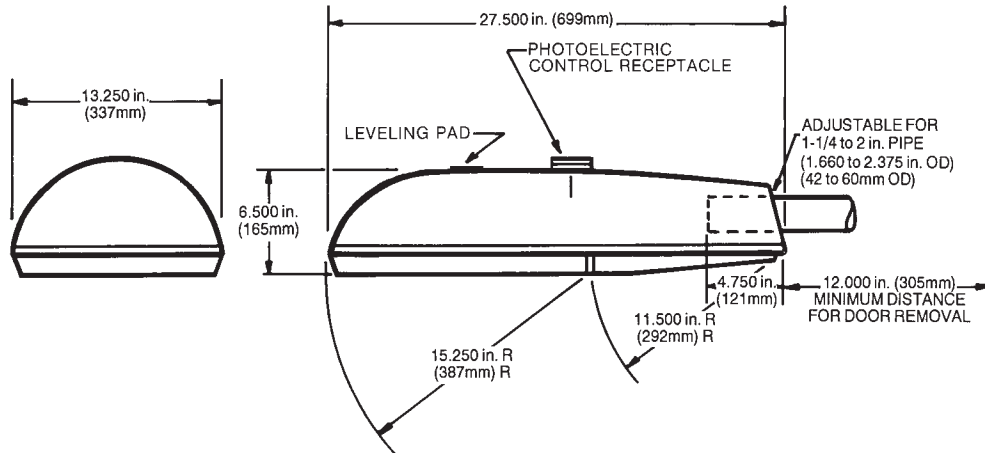
*Meets RP8-2000 for full cutoff with flat glass

GE Lighting Systems, Inc.

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M-250A2 POWR/DOOR® LUMINAIRE WITH CUTOFF OPTICS

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	20-30 lbs	9-14 kgs
Effective Projected Area		
Flat Glass Unit	0.9 sq. ft. max	0.08 sq. M max
Clear Acrylic Globe Unit	1.0 sq. ft. max	0.09 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage														
		Multi-volt	60Hz										50Hz			
			120	208	240	277	480	120X240	347,120X347	240/120 PE R	220	220	230	240		
50	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	N/A	N/A	N/A	N/A
70,100,150(55V)	HPS	A,H,N	A,G,H,M,N,P	A,G,H,M,N	A,G,H,M,N,P	A,G,H,M,N	GM	GMP	G*,H,M*,N	G,M,N	G,M,N	N/A	N/A	H,M,N	H	M††
100/150(55V)	HPS	N/A	H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200	HPS	AP	A,H,N,P	A,H,N,P	A,H,N,P	AP	A	AP	N/A	A,H,N	A,H,N	N/A	N/A	N/A	N/A	N/A
250	HPS	AP	A,H,N,P	A,H,N,P	A,H,N,P	AP	AP	AP	AP	A,H,N	A,H,N	H	A,H,N	H	AH	AH
175,250	MH	A	AP	AP	AP	AP	A,P**	AP	AP	A	A	N/A	A	N/A	N/A	N/A
100,175,250	Merc	C	C,N	C	C,H,N	C	C	C	N/A	C,H,N	C,H,N	N/A	N/A	N/A	N/A	N/A

NOTE: N/A=Not Available
 ††150(55V)only
 *Not available in 120X347 volt
 ** Not available in 175W

M2AC — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60 Hz)	Ballast Type	Refractor Type	Photometric Distribution
M2AC10S1N2GMC21	100	HPS	120	NPF Reactor	Glass	MC2
M2AC15S1N2GMC21	150	HPS	120	NPF Reactor	Glass	MC2
M2AC25S0A2GMC31	250	HPS	Multivolt	Auto-Regulator	Glass	MC3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-250R2 LUMINAIRE



APPLICATIONS

- For lower wattage roadway applications including residential streets, parking lots and other long, narrow areas

SPECIFICATION FEATURES

- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (street side) – E39 standard
- No-tool PE receptacle
- Plug-in ignitor
- External stainless steel bail latch
- Plastic pest guard standard (not required for 2 in. pipe)
- Ⓞ/Ⓞ listed for wet location available as an option

ORDERING NUMBER LOGIC

M2RR	15	S	1	N	2	A	MS3	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE (PRISMATIC) REFRACTOR	IES DISTRIBUTION TYPE	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XXX
M2RR = M-250R2	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 21 = 100/ 150 (55V) 25 = 250 NOTE: Dual wattage connected for lower wattage	S = HPS C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	See Photometric Selection Table A = Acrylic G = Glass L = Polycarbonate NOTE: 150 watt Maximum with Acrylic or Polycarbonate Refractors.	See Photometric Selection Table M = Medium L = Long S = Semi-cutoff N = Non-cutoff 2 = Type II 3 = Type III 4 = Type IV	C = Charcoal filter F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type N = Meets proposed ANSI C136.31 requirements for Bridge and Underpass Vibration U = Ⓞ/Ⓞ listed with glass only

M-250 ROADWAY LIGHTING



PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Light Source	Lens Type (Prismatic Refractor)	IES Distribution Type Photometric Curve Number 35-17 - - - - (Socket Position)					
			LN3	LN4	MN2	MN3	MS2	MS3
50,70,100,150(55V)	HPS	Acrylic	N/A	N/A	7246(1A)	7247(2A)	7244(2B)	7245(2.5B)
50,70,100,150(55V)	HPS	Glass	N/A	N/A	7250(1A)	7251(2A)	7248(1.5B)	7249(2.5B)
50,70,100,150(55V)	HPS	Polycarb.	7258(1A)	7259(2A)	N/A	7256(2B)	N/A	N/A
200,250	HPS	Glass	N/A	N/A	N/A	N/A	7261(2DH)	7260(1DH)
100,175,250	Merc	Glass	N/A	N/A	7284(1A)	7279(2A)	7280(1B)	7281(2B)

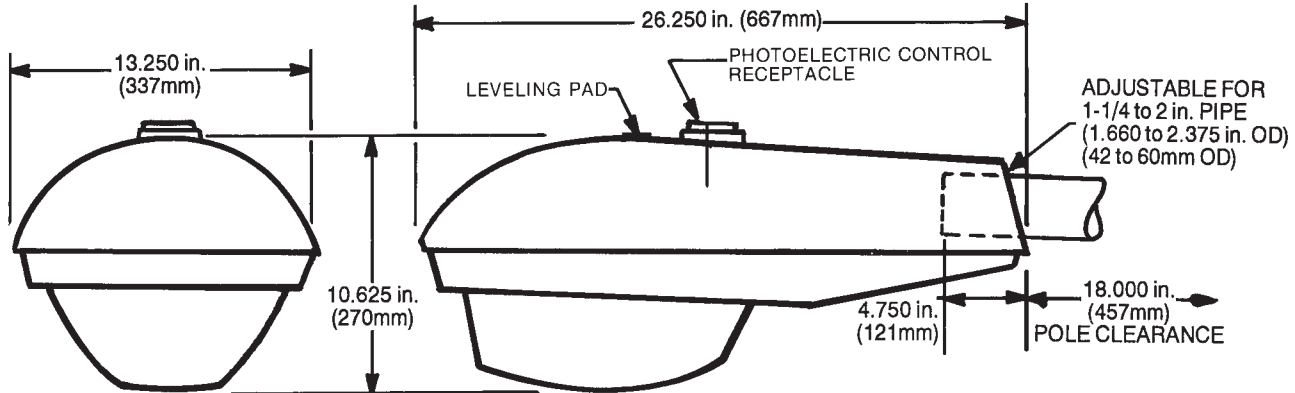
NOTE: N/A = Not available

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M-250R2 LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	20-30 lbs	9-14 kgs
Effective Projected Area	0.7 sq. ft. max	0.07 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage															
		Multi-volt	60Hz										50Hz				
			120	208	240	277	480	120X240	347, 120X347	240/120 PER	220	230	220	230	240		
50	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	N/A	N/A	N/A	N/A	N/A
70,100,150(55V)	HPS	A,H,N	A,G,H,M,N,P	A,G,H,M,N	A,G,H,M,N,P	A,G,H,M,N,P	G,M	G,H,M,N,P	G*,H,M*,N	G,H,M,N	H,M,N	N/A	N/A	H,M,N	H	N/A	N/A
100/150(55V)	HPS	N/A	H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200, 250	HPS	AP	A,H,N,P	A,H,N,P	A,H,N,P	AP	AP**	AP	A**,P	A,H,N	H	H	A,H,N	H	H	H	H
100,175	Merc	C	C,N	C	C,H,N	C	C	C	N/A	C,H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A
250	Merc	C	C,N	C	C,H,N	C	C	C	N/A	C,H,N	N/A	N/A	H	N/A	H	N/A	H

NOTE: N/A = Not available
 NOTE: *Not available in 120X347 volt
 NOTE: **Not available in 200 watt

M2AC — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
M2RR10S1N2AMS2	100	HPS	120	NPF Reactor	Acrylic	MS2
M2RR15S1N2AMS3	150	HPS	120	NPF Reactor	Acrylic	MS3
M2RR25SOA2GMS3	250	HPS	Multivolt	Auto-Regulator	Glass	MS3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-250R2 LUMINAIRE WITH CUTOFF OPTICS



APPLICATIONS

- For residential streets, access roads, parking lots and other outdoor areas

SPECIFICATION FEATURES

- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (street side) – E39 standard
- ALGLAS® finish on reflector
- No-tool PE receptacle
- Plug-in ignitor
- True 90° cutoff—no light above 90° (meets RP8-2000 for full cutoff)
- External stainless steel bail latch
- Plastic pest guard standard (not required for 2 in. pipe)
- Ⓞ/Ⓞ listed for wet location available as an option

ORDERING NUMBER LOGIC

M2RC	15	S	1	N	2	G	MC3	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE (PRISMATIC) REFRACTOR	IES DISTRIBUTION TYPE	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XXX
M2RC = M-250R2 with Cutoff Optics	05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 21 = 100/ 150 (55V) 25 = 250 NOTE: Dual wattage connected for lower wattage	S = HPS C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 F = 120X347 T = 220 W = 230 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast Selection Table A = Autoreg C = Merc-Reg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	See Photometric Selection Table A = Acrylic Clear Globe G = Glass L = Polycarbonate Clear Globe S = Sag Glass NOTE: 150 watt Maximum with Acrylic or Polycarbonate Refractors.	See Photometric Selection Table S = Short M = Medium C = Cutoff 2 = Type II 3 = Type III	C = Charcoal filter F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type U = Ⓞ/Ⓞ listed with glass only

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Lens Type	IES Distribution Type Photometric Curve Number (Socket Position) All light sources are clear unless otherwise indicated.		
			MC2	MC3	SC2
50, 70, 100, 150 (55v)	HPS	A or L	N/A	179168 (1A)	N/A
50	HPS	S	452536 (2CL)	452537 (1CL)	N/A
70	HPS	S	452538 (2CL)	452539 (1CL)	N/A
100	HPS	S	452540 (2CL)	452541 (1CL)	N/A
150 (55v)	HPS	S	452533 (2CL)	452542 (1CL)	N/A
50, 70, 100, 150 (55v)	HPS	G	177293 (2CL)	177292 (1CL)	N/A
200	HPS	S	N/A	452532 (2DL)	N/A
200, 250	HPS	G	177306 (2DH)	177305 (1DH)	N/A
100, 175, 250	Merc	G	N/A	N/A	177300 (1B)
100	Merc	S	N/A	452531 (1CH)	N/A
175	Merc	S	N/A	452534 (1CL)	N/A
250	Merc	S	N/A	452535 (1CH)	N/A

NOTE:

N/A=Not Available

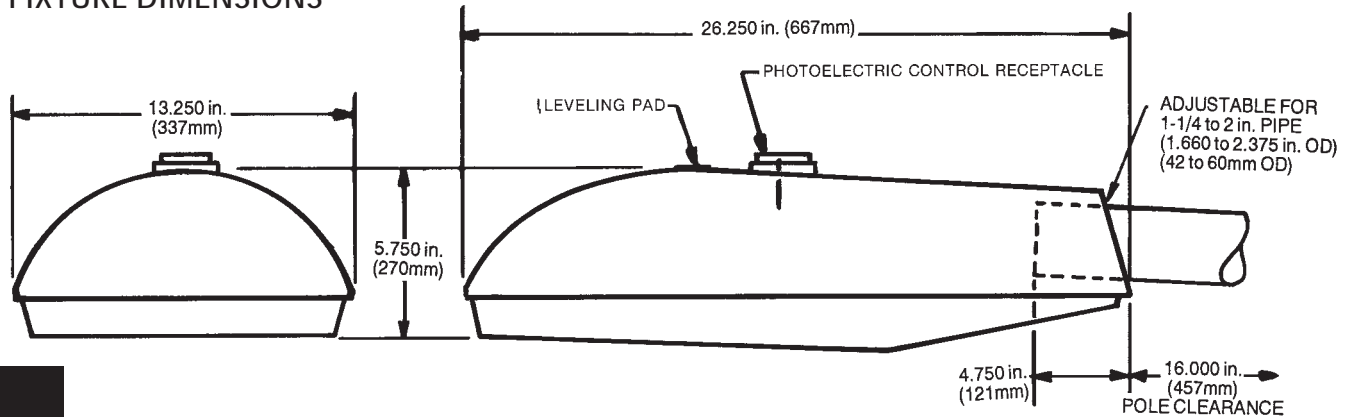
*Meets RP8-2000 for full cutoff

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M-250R2 LUMINAIRE WITH CUTOFF OPTICS

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	20-30 lbs	9-14 kgs
Effective Projected Area		
Flat Glass Unit	0.6 sq. ft. max	0.06 sq. M max
Clear Acrylic or Polycarbonate Globe Unit	1.0 sq. ft. max	0.09 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage															
		60Hz										50Hz					
		Multi-volt	120	208	240	277	480	120X240	347, 120X347	240/120 PER	220	230	220	230	240		
50	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	H,N	N/A	N/A	N/A	N/A	N/A
70,100,150(55V)	HPS	A,H,N	A,G,H,M,N,P	A,G,H,M,N	A,G,H,M,N,P	A,G,H,M,N	GM	G,H,M,N,P	G*,H,M*,N	G,H,M,N	H,M,N	N/A	H,M,N	H	N/A	N/A	
100/150(55V)	HPS	N/A	H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
200,250	HPS	AP	A,H,N,P	A,H,N,P	A,H,N,P	AP	AP**	AP	A**,P	A,H,N	H	H	A,H,N	H	H	H	
100,175	Merc	C	C,N	C	C,H,N	C	C	C	N/A	C,H,N	N/A	N/A	N/A	N/A	N/A	N/A	
250	Merc	C	A,C,N	C	C,H,N	C	C	C	N/A	C,H,N	N/A	N/A	H	N/A	H	H	

NOTE: N/A = Not Available
 NOTE: *Not available in 120X347 volt
 NOTE: **Not available in 200 watt

M2AC — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
M2RC07S1N2GMC3	70	HPS	120	NPF Reactor	Glass	MC3
M2RC10S1N2GMC3	100	HPS	120	NPF Reactor	Glass	MC3
M2RC15S0A2GMC3	150	HPS	120	NPF Reactor	Glass	MC3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-400A POWR/DOOR® LUMINAIRE



APPLICATIONS

- For street and parking lot lighting

SPECIFICATION FEATURES

- Powr/Module ballast assembly
- Filtered optics
- Standardized reflector
- Universal two or four-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- "Dead back" tunnel type, FRP terminal board
- 2 in. pipe mounting only with MDRA
- Adjustable mogul base socket (house side) – E39 standard
- ALGLAS® finish on reflector
- No-tool PE receptacle
- Plug-in ignitor available
- External paddle type stainless steel bail latch
- Ⓢ/Ⓤ listed unit available— See Options

ORDERING NUMBER LOGIC

MDRA	40	S	1	A	2	1	R	MS3	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IGNITOR MOUNTING	LENS TYPE (PRISMATIC) REFRACTOR	IES DISTRIBUTION TYPE	FILTER	OPTIONS
XXXX	XX	X	X	X	X	X	X	XXX	X	XXX
MDRA = M-400A 4-Bolt Slipfitter	10 = 100 15 = 150 (55V)	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 F = 120X347 T = 220 W = 230 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage only	See Ballast Selection Table A = Autoreg C = Merc-Reg H = HPF Reactor or Lag M = Mag-reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	1 = Non Plug-in/ None 2 = Plug-in base and Ignitor	See Photometric Selection Table R = Prismatic Glass Refractor P = Lexan *250W HPS Maximum Prismatic Refractor	See Photometric Selection Table S = Short M = Medium S = Semi-cutoff C = Cutoff 2 = Type II 3 = Type III	1 = Fiber gasket 2 = Charcoal with elastomer gasket	F = Fusing (Not available with dual voltage) J = Line Surge Protector, Expulsion Type N = Meets proposed ANSI C136.31 requirements for Bridge and Underpass Vibration U = UL Listed (60Hz only)

M-400 ROADWAY LIGHTING



PHOTOMETRIC SELECTION TABLE

GLASS PRISMATIC REFRACTOR

All light sources are clear unless otherwise indicated.

Wattage	Light Source	IES Distribution Type Photometric Curve Number 35-45xxxx					
		Semi-Cutoff		Cutoff			
		MS2	MS3	MC2	MC3	SC2	SC3
150 (55V)	HPS	0390	0389	N/A	0388	N/A	N/A
200-400	HPS	1007	1008	1009	1010	N/A	1011
175 & 250	MH	0346	0344	N/A	N/A	N/A	0345
400	MH	0279	0278	N/A	N/A	N/A	N/A
400	Merc	0374	0373	N/A	N/A	0396	N/A
400 (Coated)	Merc	N/A	N/A	N/A	N/A	0356	0355

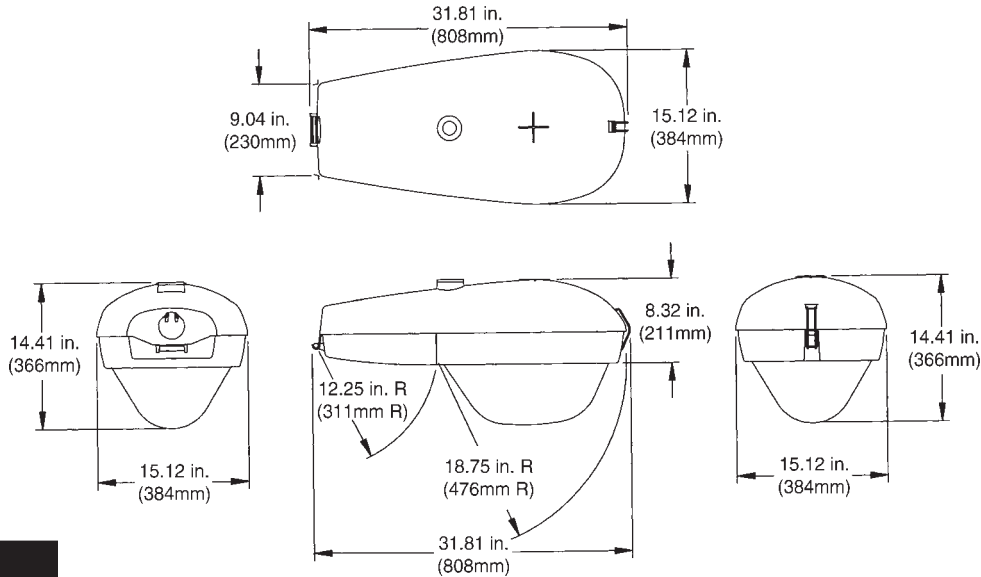
NOTE: N/A = Not Available

GE Lighting Systems, Inc.

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M-400A POWR/DOOR® LUMINAIRE WITH 4 BOLT SLIPFITTER

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	30-39 lbs	15-18 kgs
Effective Projected Area	1.4 sq. ft. max	.13 sq. M max
Suggested Mounting Height	30-50 ft.	9-15 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Multi-volt	Ballast Type/Voltage													
			60Hz									50Hz				
			120	208	240	277	480	120X 240	347, 120X347	240/120 PER	220	230	220	230	240	
150(55V)	HPS	H,N	G,H,M,N	G,M	G,M	G,M	G,M	G,M	G,H,M,N	G*,H,M*,N	G,M	N/A	N/A	N/A	N/A	N/A
200	HPS	A,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M,P	A,G,M,P	A,G,M,P	N/A	A,G,H,M,N	N/A	H	N/A	N/A	N/A
250	HPS	A,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,L,M,P	A,G,M,P	A,G,M,P	A,G,M,P	A,M,P	A,G,H,M,N	A,H	H	A,H,M,N	H	M
250/400	HPS	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310	HPS	A,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	N/A	A,G,H,M,N	N/A	H	N/A	N/A	N/A
400	HPS	A,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	A,G,M	A,G,H,M,N	H,A,N	H	A,H,M,N	N/A	A,H,M
70,100,150	MH	H,N	H,N	H,N	H,N	H,N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
175	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A
400	MH	A	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A	A	N/A	N/A	N/A	A
400	Merc	C	C,N	C	C,H,N	C,H,N	C	C	C	N/A	C,H,N	N/A	N/A	C/F	N/A	H

NOTE: N/A = Not Available
 *Not available in 120X347 volt
 C/F = Contact factory

MDRA — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
MDRA250A22RMS31	250	HPS	Multivolt	Auto-Regulator	Glass	MS3
MDRA400A22RMS31	400	HPS	Multivolt	Auto-Regulator	Glass	MS3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-400A POWR/DOOR® LUMINAIRE WITH CUTOFF OPTICS



APPLICATIONS

- For street, highway and parking lot lighting

SPECIFICATION FEATURES

- Powr/Module ballast assembly
- Filtered optics
- Universal two or four-bolt slipfitter
- Standardized reflector
- "Dead back" tunnel type, FRP terminal board
- 2 in. pipe mounting only with MDCA
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (house side) – E39 standard
- ALGLAS® finish on reflector
- No-tool PE receptacle
- Plug-in ignitor available
- External paddle type stainless steel bail latch
- UL/UL listed unit available—See Options
- True 90° cutoff—no light above 90° (meets RP8-2000 for full cutoff) with flat glass

ORDERING NUMBER LOGIC

MDCA	40	S	1	A	2	1	F	MC3	1	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IGNITOR MOUNTING	LENS TYPE	IES DISTRIBUTION TYPE	FILTER	OPTIONS
XXXX	XX	X	X	X	X	X	X	XXX	X	XXX
MDCA = M-400A with Cutoff Optics 4-Bolt Slipfitter	10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400	S = HPS M = MH C = Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 F = 120X347 T = 220 W = 230 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower wattage only	See Ballast Selection Table A = Autoreg C = Merc-Reg H = HPF Reactor or Lag M = Mag-reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	1 = Non Plug-in/ None 2 = Plug-in base and Ignitor	A = Acrylic Clear Globe (250 watt Maximum) F = Flat Glass G = Shallow Glass Globe L = Polycarbonate Clear Globe (250 watt) HPS only	See Photometric Selection Table S = Short M = Medium C = Cutoff 1 = Type I 2 = Type II 3 = Type III	1 = Fiber gasket 2 = Charcoal with elastomer gasket	F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type N = Meets ANSI C136.31 requirements for Bridge and Underpass Vibration U = UL Listed Glass Lens and (60Hz only)
MDCL = M-400A with Cutoff Optics 2-Bolt Slipfitter	25 = 250 31 = 310 40 = 400 NOTE: Dual wattage connected for lower wattage only									

M-400 ROADWAY LIGHTING

R

PHOTOMETRIC SELECTION TABLE

CLEAR REFRACTORS All light sources are clear.

Wattage	Light Source	IES Distribution Type Photometric Curve Number 35–45xxxx							
		Flat Glass "F"		SAG Glass Globe "G"				Polycarbonate	
		MC2*	MC3*	MC1	SC2	SC3	MC2		MC3
150 (55V)	HPS	0386	0387	N/A	N/A	N/A	0547	0546	C/F
200-400	HPS	1001	1002	N/A	0101	0102	1003	1004	1045** (MC3)
175 & 250	MH	0343	0342	N/A	N/A	N/A	0544	0545	C/F
400	MH	452880	452882	0281	N/A	N/A	0280	N/A	N/A
400	Merc	N/A	N/A	N/A	N/A	N/A	0375	0376	N/A
400 (Coated)	Merc	N/A	N/A	N/A	0282	C/F	N/A	N/A	N/A

NOTE: N/A = Not Available C/F = Contact Factory

*Meets RP8-2000 for full cutoff

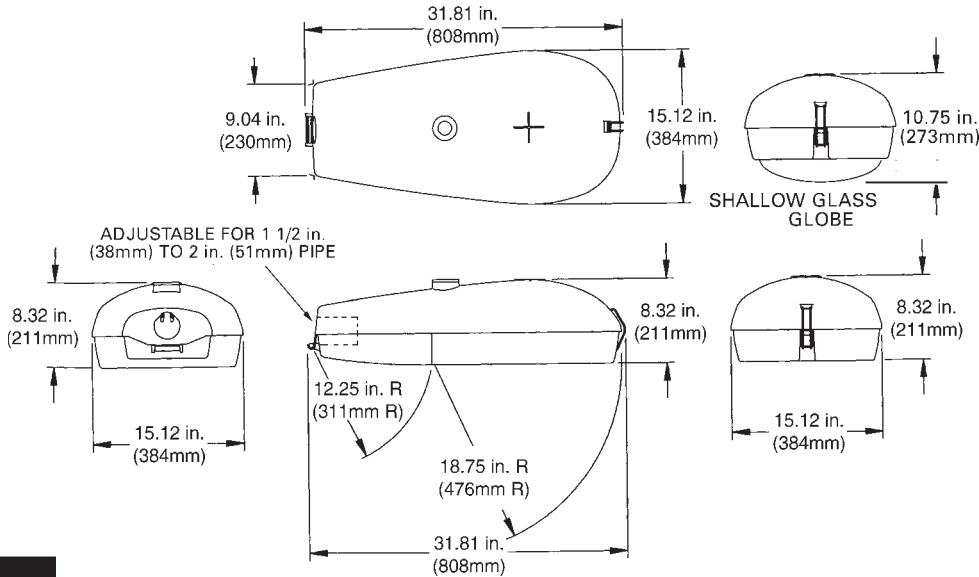
**250 watts maximum

GE Lighting Systems, Inc.

www.gelighting.com

M-400A POWR/DOOR® LUMINAIRE WITH CUTOFF OPTICS & 4 BOLT SLIPFITTER

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	33-39 lbs	15-19 kgs
Effective Projected Area	1.1 sq. ft. max	.01 sq. M max
Suggested Mounting Height	30-50 ft.	9-15 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Multi-volt	Ballast Type/Voltage														
			60Hz										50Hz				
			120	208	240	277	480	120X 240	347, 120X347	240/120 PER	220	230	220	230	240		
150(55V)	HPS	H,N	G,H,M,N	G,M	G,M	G,M	G,M	G,M	G,M	G,H,M,N	G*,H,M*,N	G,M	N/A	N/A	N/A	N/A	N/A
200	HPS	A,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M	A,G,M	A,G,M	A,G,M,P	N/A	A,G,H,M,N	N/A	H	N/A	N/A	N/A
250	HPS	A,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M,P	A,G,M,P	A,G,M,P	A,M,P	A,M,P	A,G,H,M,N	A,H	H	A,H,M,N	H	M
250/400	HPS	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310	HPS	A,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	N/A	N/A	A,G,H,M,N	N/A	H	N/A	N/A	N/A
400	HPS	A,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	A,G,M	A,G,M	A,G,H,M,N	H,A,N	H	A,H,M,N	N/A	A,H,M
175	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
400	MH	A	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A,P	N/A	N/A	N/A	N/A	N/A	A
400	Merc	C	C,N	C/F	C,H,N	C,H,N	C	C	N/A	N/A	N/A	A,C,H,N	N/A	N/A	C/F	N/A	H

NOTE: N/A = Not Available
 *Not available in 120X347 volt
 C/F = Contact factory

MDCA — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
MDCA250A22FMC21	250	HPS	Multivolt	Auto-Regulator	Glass	MC2
MDCA400A22FMC31	400	HPS	Multivolt	Auto-Regulator	Glass	MC3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-400 LUMINAIRE



APPLICATIONS

- For street, highway, parking lot and area lighting

SPECIFICATION FEATURES

- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (house side) – E39 standard
- No-tool PE receptacle
- Plug-in ignitor available
- External paddle type stainless steel bail latch
- Metal pest guard standard (not required for 2 in. pipe mounting)
- Standardized reflector
- "Dead back" tunnel type terminal board
- UL / UL listed for wet location available as an option

ORDERING NUMBER LOGIC

MSRL	40	S	1	A	2	1	R	MC3	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IGNITOR MOUNTING	LENS TYPE	IES DISTRIBUTION TYPE	OPTIONS
XXXX MSRL = M-400	XX 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/ 400 25 = 250 31 = 310 40 = 400 NOTE: Dual wattage connected for lower wattage	X S = HPS M = MH C = Merc T = Induc- tion Standard: Lamp not included.	X 60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 8 = 240V Ballast 120V PE Recep- tacle not recon- nectable D = 347 T = 220 W = 230 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	X See Ballast Selection Table A = Autoreg C = Merc-Reg E = Induction Ballast G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	X 1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	X 1 = Non Plug-in/ None 2 = Plug-in base and Ignitor	X R = Prismatic Glass Refractor P = Lexan *250 Watt HPS Maximum Prismatic Refractor	XXX See Photometric Selection Table S = Short M = Medium S = Semi-cutoff C = Cutoff 2 = Type II 3 = Type III 4 = Type IV	XXX C = Charcoal filter F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type U = UL / UL listed with glass only

M-400 ROADWAY LIGHTING

R

PHOTOMETRIC SELECTION TABLE

GLASS PRISMATIC REFRACTOR

All light sources are clear unless otherwise indicated.

Wattage	Light Source	IES Distribution Type Photometric Curve Number 35-45xxxx						
		Semi-Cutoff			Cutoff			
		MS2	MS3	MS4	MC2	MC3	SC2	SC3
150 (55V)	HPS	0395	0394	N/A	N/A	0393	N/A	N/A
200-400	HPS	1012	1013	0831•	1014	1015	N/A	1016
175, 250	MH	0351	0349	N/A	N/A	N/A	N/A	0350
400	MH	0274	0273	N/A	N/A	N/A	N/A	N/A
400	Merc	0378	0377	N/A	N/A	N/A	0397	N/A
400 (Coated)	Merc	N/A	N/A	N/A	N/A	N/A	0358	0357
100	T	N/A	N/A	N/A	N/A	N/A	2870	N/A

NOTE: N/A = Not Available C/F = Contact Factory

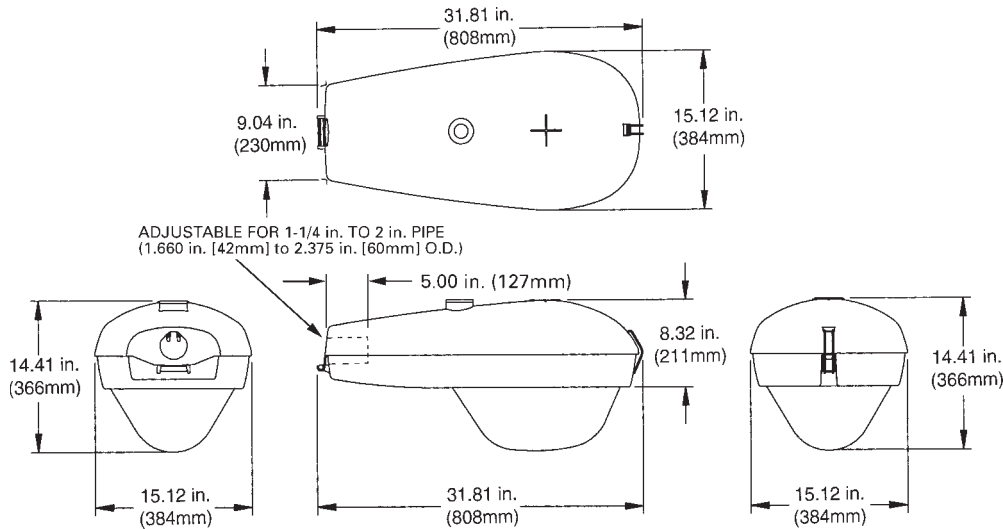
- Not available with Mag-Reg ballast

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M-400 LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	33-39 lbs	15-18 kgs
Effective Projected Area	1.4 sq. ft. max	0.13 sq. M max
Suggested Mounting Height	30-50 ft.	9-15 M

REFERENCES

See Page R-48 for start of Accessories.
See Page R-52 for Explanation of Options and Other Terms Used.
See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/Voltage													
		60Hz											50Hz		
		Multivolt	120	208	240	277	347** 120X347	480	120X240	240/120 PER	220	230	220	230	240
150 (55V)	HPS	H,N	G,H,M,N	G,M	G,M	G,M	G*,H,M*,N	G,M	G,H,M,N	G,M	N/A	N/A	N/A	N/A	N/A
200	HPS	A,G,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M,P	A,G,M	A,G,M,P	A,G,H,M,N	N/A	H	N/A	N/A	N/A
250	HPS	A,G,M,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,H,M,N,P	A,G,M,P	A,G,M,P	A,G,M,P	A,G,M,P	A,G,H,M,N	A,H	H	A,H,M,N	H	M
250/400	HPS	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A
310	HPS	A,G,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	A,G,H,M,N	N/A	H	N/A	N/A	N/A
400	HPS	A,G,M	A,G,M	A,G,H,M,N	A,G,H,M,N	A,G,M	A,G,M	A,G,M	A,G,M	A,G,H,M,N	A,H,N	H	A,H,M,N	N/A	A,H,M
175	MH	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A
400	MH	A	A,P	A,P	A,P	A,P	A,P	A,P	A,P	A	A	N/A	N/A	N/A	N/A
400	Merc	C	C,N	C	C,H,N	C,H,N	N/A	C	C	C,H,N	N/A	N/A	C/F	N/A	H
100	IND	E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	E	E	E

NOTE: N/A=Not available. *Not available in 120X347. **Not available in 200 watt or 310 watt. C/F=Contact factory

MSRL — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
MSRL25S0A22RMS3	250	HPS	Multivolt	Auto-Regulator	Glass	MS3
MSRL40S0A22RMS3	400	HPS	Multivolt	Auto-Regulator	Glass	MS3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

M-400 LUMINAIRE WITH CUTOFF OPTICS



APPLICATIONS

- For roadway, highway or parking lot applications where light trespass could be a problem

SPECIFICATION FEATURES

- Universal two-bolt slipfitter
- Die-cast aluminum housing with electrocoat gray paint finish
- Adjustable mogul base socket (house side) – E39 standard
- Standardized reflector
- “Dead back” tunnel type, FRP terminal board
- Ⓢ / Ⓡ listed for wet location available as an option
- Metal pest guard standard (not required for 2 in. pipe mounting)
- No-tool PE receptacle
- Plug-in ignitor available
- Cutoff photometrics
- External paddle type stainless steel bail latch
- True 90° cutoff—no light above 90° (meets RP8-2000 for full cutoff) with flat glass

ORDERING NUMBER LOGIC

MSCL	40	S	1	A	2	1	F	MC3	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	IGNITOR MOUNTING	LENS TYPE	IES DISTRIBUTION TYPE	OPTIONS
XXXX	XX	X	X	X	X	X	X	XXX	XXX
MSCA = M-400 with 4-Bolt Slipfitter MSCL = M-400 with Cutoff Optics 2-Bolt Slipfitter	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/ 400 25 = 250 40 = 400 NOTE: Dual wattage connected for lower wattage	S = HPS M = MH C = Merc T = Induction Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120x240 8 = 240V Ballast 120V PE Receptacle not reconnectable D = 347 T = 220 W = 230 50Hz 6 = 220 R = 230 Y = 240 NOTE: Dual voltage connected for lower voltage	See Ballast Selection Table A = Autoreg E = Induction Ballast G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	1 = Non Plug-in None 2 = Plug-in base and Ignitor	F = Flat Glass G = Shallow Glass Globe L = Polycarbonate Clear Globe (250 watt Maximum) HPS only	See Photometric Selection Table M = Medium C = Cutoff 2 = Type II 3 = Type III 4 = Type IV	C = Charcoal filter F = Fusing (Not available with multivolt or dual voltage) J = Line Surge Protector, Expulsion Type U = Ⓢ / Ⓡ listed with glass only

M-400 ROADWAY LIGHTING

R

PHOTOMETRIC SELECTION TABLE

CLEAR REFRACTORS. All light sources are clear.

Wattage	Light Source	IES Distribution Type Photometric Curve Number 35–45xxxx									
		Flat Glass “F”				Polycarbonate		Sag Glass “G”			
		MC2*	MC3*	MC4*	SC2	MC2	MC3	MC1	MC2	MC3	SC2
150 (55V)	HPS	0391	0392	N/A	N/A	C/F	C/F	N/A	0547	0546	N/A
200-400	HPS	1005	1006	0830	N/A	1046**	1045**	N/A	0864	0863	N/A
175 & 250	MH	0348	0347	N/A	N/A	N/A	N/A	N/A	0544	0545	N/A
400	MH	452880	452882	N/A	N/A	N/A	N/A	0276	0275	450376	N/A
400	Merc	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0379	0380	N/A
400 (Coated)	Merc	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0277
100	T	N/A	N/A	N/A	2870	N/A	N/A	N/A	N/A	N/A	N/A

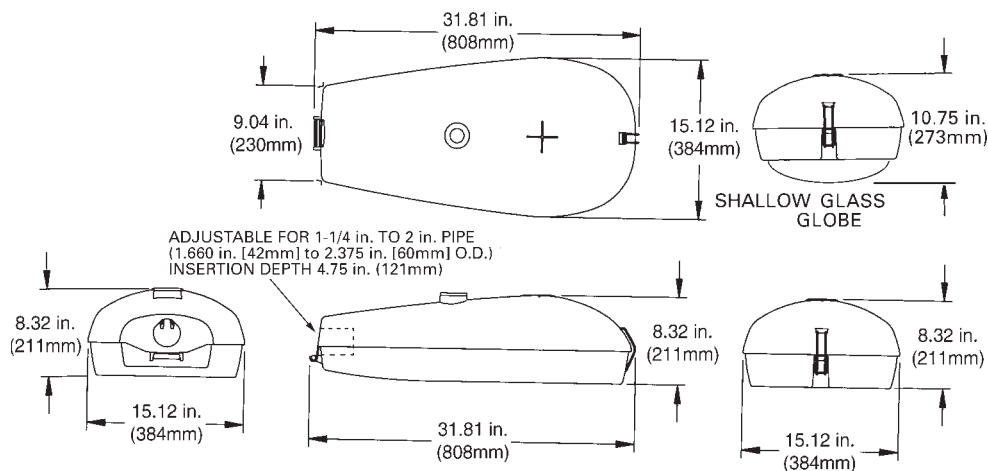
NOTE: N/A = Not Available C/F = Contact Factory
* Meets RP8-2000 for full cutoff
** 250 watts maximum

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M-400 LUMINAIRE WITH CUTOFF OPTICS

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	33-39 lbs	15-18 kgs
Effective Projected Area	1.1 sq. ft. max	0.1 sq. M max
Suggested Mounting Height	30-50 ft.	9-15 M

REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	BALLAST TYPE/VOLTAGE														
		60HZ											50HZ			
		Multivolt	120	208	240	277	347**	120X347	480	120X240	240/120 PER	220	230	220	230	240
150(55V)	HPS	H,N	G,H,M,N	GM	GM	GM	GM	G*,H,M*,N	GM	G,H,M,N	GM	N/A	N/A	N/A	N/A	N/A
200	HPS	AGMP	AGMP	AG,H,M,N,P	AG,H,M,N,P	AGMP	AGMP	AGMP	A,G,M	AGM	AG,H,M,N	N/A	H	N/A	N/A	N/A
250	HPS	AGMP	AG,H,M,N,P	AG,H,M,N,P	AG,H,M,N,P	AGMP	AGMP	AGMP	AGMP	AGMP	AG,H,M,N	A,H	H	A,H,M,N	H	M
250/400	HPS	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
400	HPS	A,M	AG,M,N	AG,H,M,N	AG,H,M,N	AGM	AGM	AGM	AGM	AGM	AG,H,M,N	H,A,N	H	A,H,M,N	N/A	A,H,M
175	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A
250	MH	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	N/A	N/A
400	MH	A	AP	AP	AP	AP	AP	AP	AP	AP	AP	A	A	N/A	N/A	A
400	Merc	C	C,N	C	C,H,N	C,H,N	N/A	C	C	C	C,H,N	N/A	N/A	C/F	N/A	H
100	IND	E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	E	E	E

NOTE: N/A=Not available. *Not available in 120X347. **Not available in 200 watt. C/F=Contact factory

MSCL — SUGGESTED CATALOG ORDERING NUMBERS

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Refractor Type	Photometric Distribution
MSCL25S0A22FMC3	250	HPS	Multivolt	Auto-Regulator	Glass	MC3
MSCL40S0A22FMC3	400	HPS	Multivolt	Auto-Regulator	Glass	MC3

All GE suggested catalog ordering numbers come with PE receptacle. PE control must be ordered separately. Order and install SCCL-PECTL if no PE is desired.

Multivolt ballasts can be for either 120, 208, 240, or 277 volt incoming power supply.

VERSAFLOOD® II SIGNLITER



APPLICATIONS

- For signlighting, recreational, security and facade (ground, structure or wall mounted) lighting

SPECIFICATION FEATURES

- / 1598 Listed
Suitable for Wet Locations
- Heavy-duty (NEMA) die-cast aluminum housing
- Protected inside and out with an electrocoat paint finish
- Sealed and activated-charcoal filtered optical assembly
- Stippled, heat and shock resistant tempered glass
V2FN/V2FC units
- Clear, heat and shock resistant tempered glass
V2FS/V2FD units
- Convex borosilicate glass lens, used with high wattage lamps, in **V2FS/V2FD** units
- Surface mounted through back with 3/4-inch threaded conduit
- 3/4-inch threaded conduit openings—top and sides for through wiring
- Adjustable mogul base socket -E39 standard
- Stainless steel door latch is standard construction
- Brace to hold door open when relamping is standard

ORDERING NUMBER LOGIC

V2FN	07	S	0	H	1	S	SN4	DB	Q
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	MOUNTING OPTION	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
V2FN = Versaflood II Signliter V2FS = Versaflood II Signliter-Improved Optics V2FC = Versaflood II Signliter-Topmount V2FD = Versaflood II Signliter-Toplighter and Improved Optics	07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 25 = 250 40 = 400	S = HPS M = MH or Merc Standard: Lamp not included.	60Hz 0 = 120/208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz Y = 240 NOTE: 120X347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	S = Standard—uses knock-outs for mounting B = Bracket—allows height and tilt adjustment C = 3/4-inch conduit entrance through mounting bracket P = 2-inch (60mm) pipe mount *Standard Mounting not available with top mounting	See Ballast and Photometric Selection Table S = Short M = Medium N = Non-cutoff 4 = Type IV	DB = Dark Bronze Standard GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or 120X347V) P = Prewired with 6 ft (2M) #14/3 Q = Non-Time Delay Automatically Switched Quartz

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Distribution	Socket Position	Photometric Curve Number 35-17-----
V2FN/V2FC-Signliter with Stippled, Flat Door Glass				
70, 100, 150 (55V)	HPS	MN4	4	7884†
175, 250	MH or Merc (Coated)	SN4	1	452859
175, 250	MH or Merc	SN4	1	452860
400	Merc (Coated)	MN4	6	7226
V2FS/V2FD-Signliter with Improved Optics				
70, 100, 150 (55V)	HPS	SN4	B	8372
200, 250, 400	HPS	SN4	Fixed	8421 (Convex Glass)
175, 250	MH or Merc	SN4	A	8373
175, 250	MH or Merc (Coated)	SN4	A	8374
400	MH or Merc	SN4	Fixed	8377 (Convex Glass)
400	MH or Merc (Coated)	SN4	B	8378 (Convex Glass)

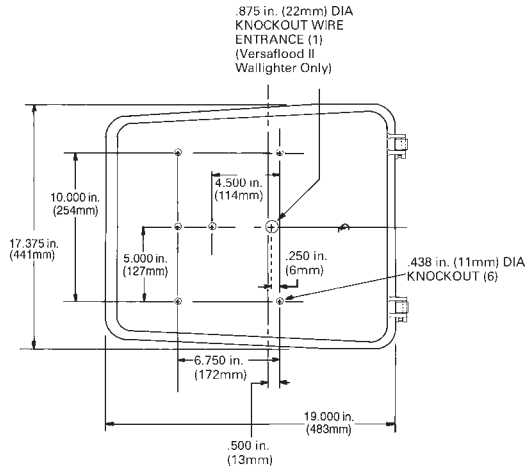
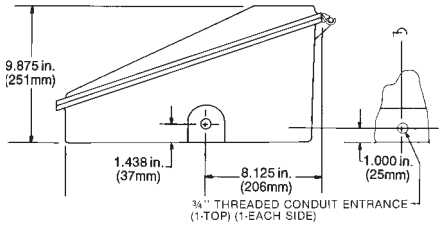
† NOTE: Not tested at time of publication

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VERSAFLOOD® II SIGNLITER

FIXTURE DIMENSIONS

S = Standard Mounting



DATA

Approximate Net Weight	27-50 lbs	12-16 kgs
Suggested Mounting Height	0-20 ft.	0-6 M

BALLAST SELECTION TABLE

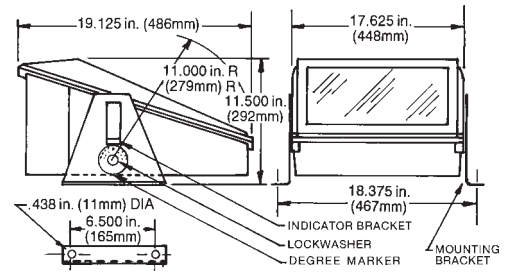
Wattage	Light Source	Ballast Type / Voltage					
		60HZ	50HZ			50HZ	
V2FN, V2FC		Multivolt	120,208,240,347	277,480	120 x 347	220	240
70,100,150(55V)	HPS	H	G,H,K,M,P	G*,H,M*	N/A	H	
175,250	MH or Merc (Coated)	A	A	A**	A	A	
400	Merc (Coated)	A	A	N/A	N/A	N/A	
V2FS, V2FD							
70,100,150(55V)	HPS	H	G,H,K,M,P	G*,H,M*	N/A	H	
200,250,400	HPS	A	A	A ¹ ,G ¹ ,M ¹	A	A ₁ H ¹	
175,250	MH or Merc	A	A	A	A	A	
175,250	MH or Merc (Coated)	A	A	A	A	A	
400	MH or Merc	A	A	A	A	A	
400	MH or Merc (Coated)	A	A	A	A	A	

NOTE: *Not available in 120X347V
¹Not available in 200W.

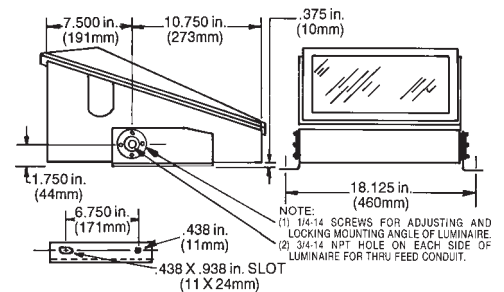
REFERENCES

See Page R-48 for start of Accessories.
 See Page R-52 for Explanation of Options and Other Terms Used.
 See Pole and Bracket Section Page P-2 for pole selection.

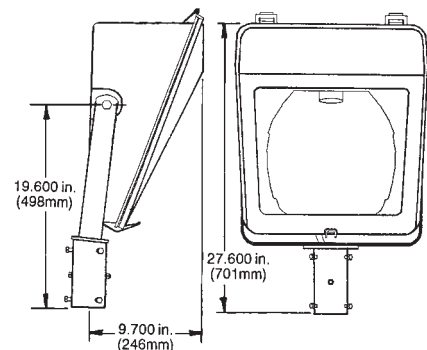
B = Bracket Mounting



C = 3/4 inch Conduit Entrance Mounting



P = 2-inch Pipe Mounting



VERSAFLOOD II SIGNLITER ROADWAY LIGHTING





VERSAFLOOD III™ INDUCTION SIGN LIGHTER

APPLICATIONS

- For signlighting, recreational signlighting and facade lighting.

SPECIFICATIONS

- 5 year warranty
- / 1598 Listed
Suitable For Wet Locations
- Corrosion Resistant Hardware
- Dark Sky optional top-mount version is available (use T option)
- Stainless steel hinged door latch
- UV stabilized powder-coat paint finish
- Heavy gauge die formed aluminum housing
- Weather resistant gasket system
- Socket is pulse-rated porcelain, nickel contacts
- Passes ANSI vibration testing of 1.5g
- Passes ASTM B117 1000 hour salt fog

INDUCTION LAMP/BALLAST SYSTEM

FEATURES:

- 80+ CRI
- Lamp/ballast system life is rated 100,000 hours (vs 24,000 for HPS)
- Instant On and Instant Restrike
- 4000K Color Temperature
- 5 year warranty
- Minimum Start -30°F
- Max ambient 55°C

INDUCTION ORDERING NUMBER LOGIC

V3SL	85	Q	1	E	B	SN4	GR	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	MOUNTING	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX V3SL = Versaflood 3 Signlitter Bottom Mounting V3ST = Versaflood 3 Top Mount	XX 85 = 85 watt	X Q = 85 watt OL Induction Lamp/ Ballast system	X 1 = 120 G = 200 - 277 VOLT 50/60 hz AC/ DC	X E = Electronic Ballast	XXX A = 1 1/4" Slipfitter B = 2" Slipfitter C = Plate for Bottom mtg only (V3SL) E = Track Plate Mounting for bottom mtg only (V3SL)	XXX SN4	X GR = Gray	XXX F = Fusing S = Side Glare Shield T = Top Mount Full Glare shield for 0 light @ 90 (use only with V3ST)

VERSAFLOOD III™ INDUCTION SIGN LIGHTER

FIXTURE DIMENSIONS

SLIPFITTER MOUNT

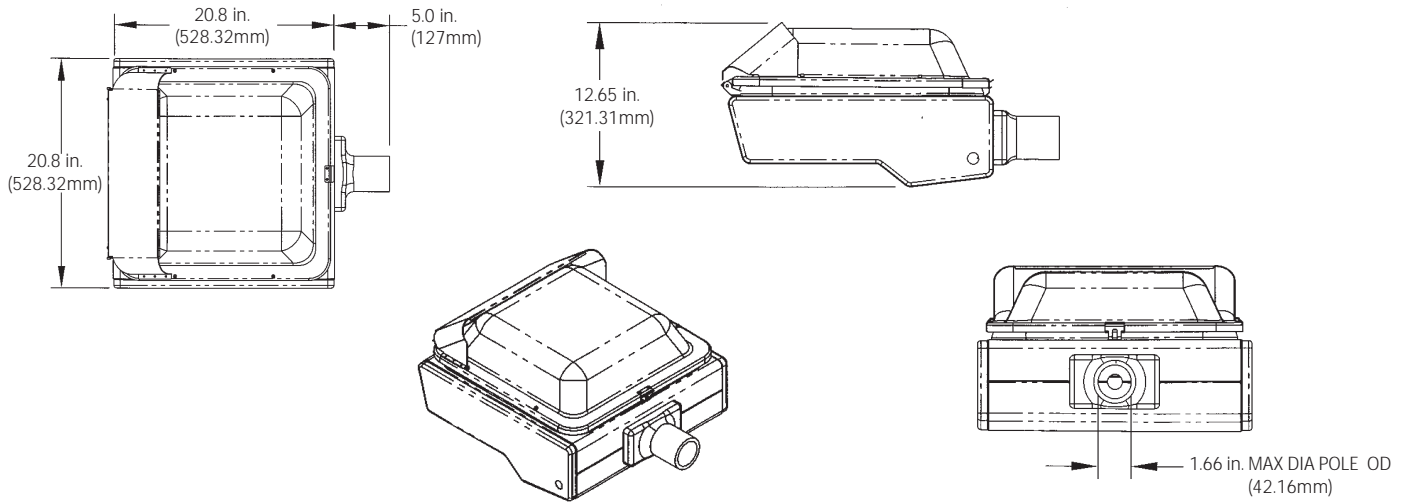
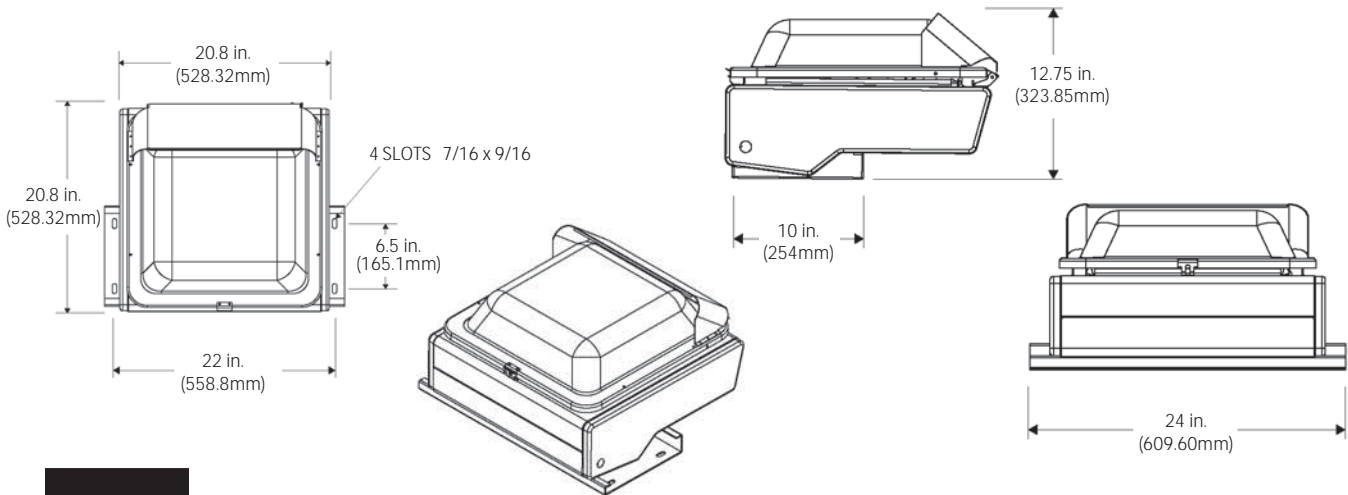


PLATE MOUNT



DATA

Approximate Net Weight 22 lbs 9.98 kgs

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Distribution	Photometric Curve Number
85	QL Induction	SN4	35 - 45 2982

*Contact factory for other photometric curves

TURNPIKE™ LUMINAIRE



APPLICATIONS

- For roadways and parking lots

SPECIFICATION FEATURES

- Charcoal filtering
- ALGLAS® finish on aluminum reflector
- Front access via hinged/removable door
- Heavy-duty die-cast aluminum housing
- Electrocoat epoxidized acrylic dark bronze or gray paint finish on housing
- Steel trunnion with aiming degree marker
- Built-in aiming indicator
- Borosilicate glass lens
- Tray mounted ballast available
- Environment protected external hardware
- Terminal board
- Mogul base socket -E39 standard
- Slipfitter mounting available
- Ⓞ / Ⓞ Listed for wet location available as an option

ORDERING NUMBER LOGIC

RPFS	40	S	5	A	1	G	LN4	GR	K
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XX	XXX
RPFS = Turnpike Luminaire Standard	07 = 70 10 = 100 15 = 150 (55V) 20 = 200 24 = 250/400 25 = 250 40 = 400	S = HPS M = MH or Merc Standard: Lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 8 = 240V Ballast 120V PE Receptical not recon-nectable D = 347 F = 120X347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: 120X347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle NOTE: Receptacle connected same voltage as unit except as noted. Order PE Control separately.	G = Glass Clear	See Ballast and Photometric Selection Table L = Long M = Medium N = Non-cutoff 2 = Type II 3 = Type III 4 = Type IV	DB = Dark Bronze Standard GR = Gray	B = Time Delay Automatically Switched Quartz F = Fusing (Not available with multivolt or dual voltage) G = Top Trunnion J = Line Surge Protector, Expulsion Type K = Knuckle Slipfitter for 1.9-in. to 2.38-in. (48 to 60 mm) OD Tenon L = Latch for door P = Prewired with 6 ft (1.8 meters) #14/3 Q = Non-Time Delay Automatically Switched Quartz S = Knuckle Slipfitter for 1.9-in. to 3.0-in. (48 to 76 mm) OD Tenon U = Ⓞ / Ⓞ listed for wet location available as an option (RPFS only) V = Knuckle Wall Mount

TURNPIKE ROADWAY LIGHTING

R

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Distribution	Photometric Curve Number 35-----
70, 100, 150 (55V)	HPS	MN3	178034
200	HPS	LN4	452594
250	HPS	LN4	452592
310	HPS	LN4	452593
400	HPS	LN4	452580
400	MH or Merc	MN2	178038

NOTE: All light sources are clear unless otherwise indicated.
All with clear borosilicate lens.

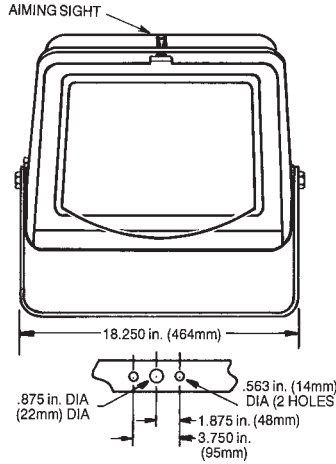
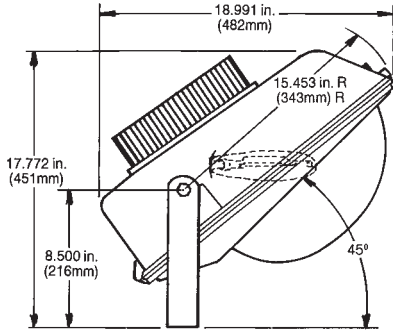
GE Lighting Systems, Inc.

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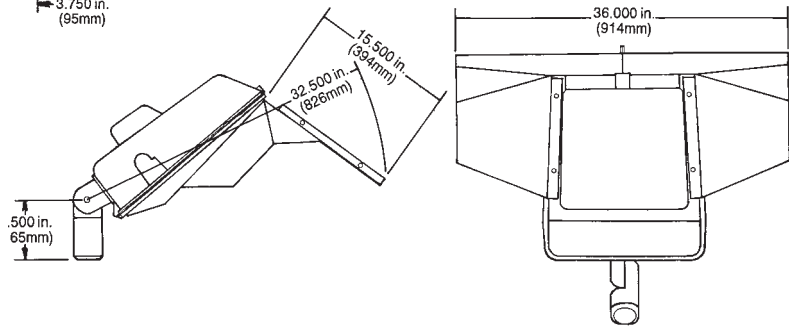
TURNPIKE™ LUMINAIRE

FIXTURE DIMENSIONS

Trunnion Mounted



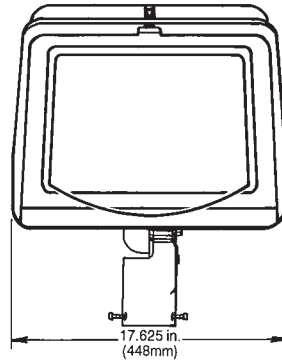
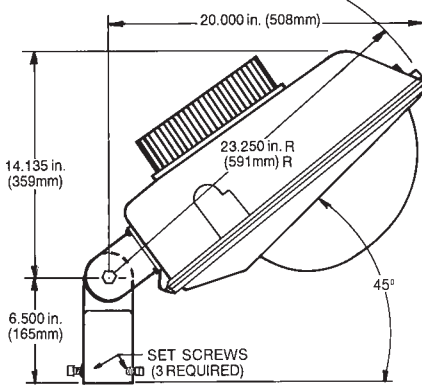
Luminaire with External Cutoff Visor, ECVGR-RPF (See Accessories)



DATA

Approximate Net Weight	60 lbs	27 kgs
Effective Projected Area	2.8 sq ft	0.3 sq M
Suggested Mounting Height	30-60 ft.	9-18 M

Slipfitter Mounted (Select option K or S)



REFERENCES

See Page R-48 for start of Accessories.
See Page R-52 for Explanation of Options and Other Terms Used.

See Pole and Bracket Section Page P-2 for pole selection.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage						
		60HZ				50HZ		
		Multivolt	120,208,240, 277,480	347 120 x 347	220	220	230	240
70, 100, 150(55V)	HPS	H,N	G, H, K, M, N, P	G*, H, M*, N	N/A	M	N/A	N/A
200, 250	HPS	A, M	A, G, H, N, M	A**, G**, M**	A	A	A	A
250/400	HPS	A	A	N/A	N/A	N/A	N/A	N/A
400	HPS	A, M	A, G, K, M, P	A, G, M	A	A, H, N	H	A, H, N
400	MH or Merc	A	A	A	A	A	A	A

NOTE: N/A = Not available
*Not available in 120X347V
**Not available in 200W.



TUNNEL GUARD™ LUMINAIRE

APPLICATIONS

- For tunnels and underpasses

SPECIFICATION FEATURES

- / 1598 Listed
Suitable for Wet Locations
- Available with option for 1598A "Suitable for Outdoor, Salt Water Marine Locations" Contact factory
- Low-glare, specialized photometrics
- Flat surface for semi-recessed ceiling mounting
- No-tool fixture removal for quick maintenance (surface mounted only)
- Heavy-duty die-cast aluminum housing
- Zinc-rich epoxy charcoal gray powder paint finish on housing
- Stainless steel external hardware
- Door assembly hinged and latched for no-tool installation and removal
- Terminal Board is standard
- Tempered glass lens
- ALGLAS® finish on aluminum reflector
- No-tool lamp replacement
- Plug-in no-tool replaceable ignitor
- Standard unit comes with 4 feet of #12-3 cable out the back of the unit
- Unistrut mounting adapter kit available – contact factory
- Luminaire normally shipped with hinges and latches.
CEILING MOUNTING PLATE (CMPxxx) IS REQUIRED AND MUST BE ORDERED SEPARATELY. (See Mounting Accessory Selection Table listing.)

ORDERING NUMBER LOGIC

TUN	40	S	4	A	2	CBM	XX	CG	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	IES DISTRIBUTION TYPE	BEAM ROTATION	COLOR	OPTIONS
XXX	XX	X	X	X	X	XXX	XX	XX	XXX
TUN= Tunnel Guard Luminaire	07 = 70 10 = 100 15 = 150 (55V) 20 = 200 25 = 250 40 = 400	S = HPS M = MH Standard: Lamp not included.	60Hz 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347	See Ballast and Photometric Selection Table A = Autoreg G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restart M = Mag-Reg N = NPF Reactor or Lag P = CWI with Grounded Socket Shell	4 = 40	See Ballast and Photometric Selection Table CBM = Counter-Beam HTV = Horizontal Type V SYM = Symmetrical (Medium Base Lamp) STM = Symmetrical (Mogul Base Lamp) MC3 = Medium, Cutoff, Type III MC4 = Medium, Cutoff, Type IV	NOTE: Determined by the orientation of luminaire on tunnel ceiling. Tunnel drawings of mounting configurations required.	CG = Charcoal Gray	F = Fusing

PHOTOMETRIC SELECTION TABLE

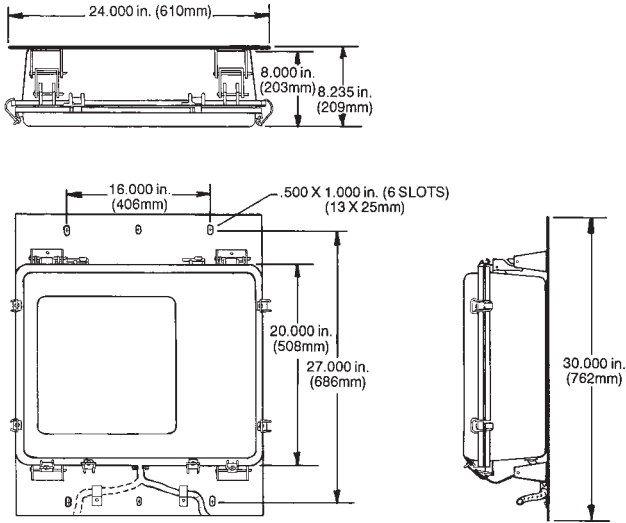
Wattage	Light Source	Socket Base Size	Photometric Distribution	Photometric Curve Number 35-17-----
70, 100, 150 (55V)	HPS	Mogul	STM	7701
70, 100, 150 (55V)	HPS	Mogul	MC4	8045
70, 100, 150 (55V)	HPS	Mogul	CBM	9111
200, 310	HPS	Mogul	CBM	7734
200, 310	HPS	Mogul	MC3	8044
250, 400	HPS	Mogul	CBM	7734
250, 400	HPS	Mogul	MC3	8044
400	MH*	Mogul	CBM	8581
400	MH*	Mogul	MC3	9162

NOTE: All light sources are clear unless otherwise indicated.
*Lamp for 400 watt MH fixture must be E-18 or ED-28 only.

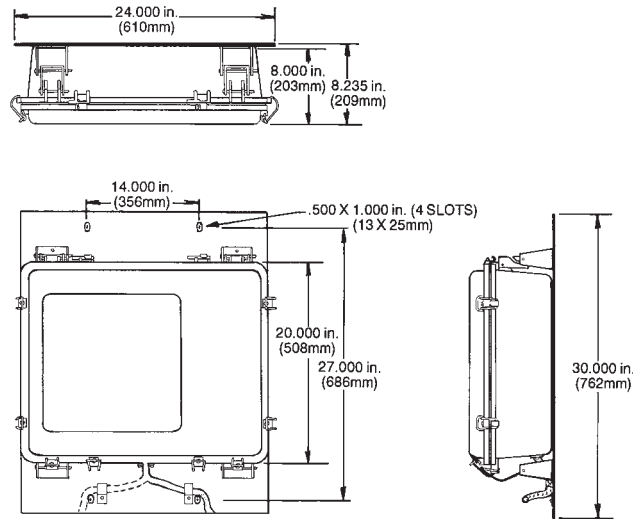
TUNNEL GUARD™ LUMINAIRE

FIXTURE DIMENSIONS

CMP001 - Ceiling Mounting Plate



CMP002 - Ceiling Mounting Plate



DATA

Approximate Net Weight	60 lbs	27 kgs
Suggested Mounting Height	16 ft.	5 M

MOUNTING ACCESSORY SELECTION TABLE

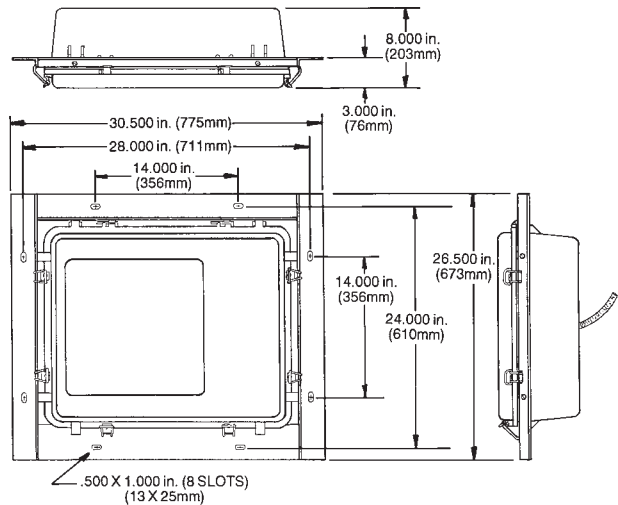
ONE REQUIRED PER LUMINAIRE

- CMP001 = Ceiling Mounting Plate (with six bolts)
- CMP002 = Ceiling Mounting Plate (with four bolts)

REFERENCES

See Page R-48 for start of Accessories.
See Page R-52 for Explanation of Options and Other Terms Used.

Semi-Recessed Mounting (No UL)



BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage	
		60HZ	347
70, 100, 150 (55V)	HPS	120, 208, 240, 277, 480	120 x 347
200, 310	HPS	G, H, K, M, N	G, H, M*, N
200, 310	HPS	A, M	N/A
250, 400	HPS	A, M	N/A
250, 400	HPS	A, G, K**, M	A, G, M
250, 400	HPS	A, G, K**, M	A, G, M
400	MH	A	A
400	MH	A	A

NOTE: N/A = Not available
*Not available in 120X347V
**400W watt only



HIGH MAST LUMINAIRE

APPLICATIONS

- For large interchanges or parking lots and an asymmetrical optical assembly for lighting straight sections of roadways

SPECIFICATION FEATURES

- / 1598 Listed
Suitable for Wet Locations
- Cast aluminum ballast housing
- All noncorrosive hardware
- ALGLAS® finish on aluminum faceted reflector
- Stainless steel clampband
- Universal 4-bolt slipfitter
- Dead Back Terminal Board
- Electrocoat gray paint finish on ballast housing
- Mogul base socket -E39 standard

ADDITIONAL SPECIFICATION FEATURES

Enclosed and Filtered

- Heat and shock resistant tempered convex glass lens
- Activated charcoal filter

ORDERING NUMBER LOGIC

HMAA	01	S	5	A	1	G	SC5	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	OPTIONS
XXXX	XX	X	X	X	X	X	XXX	XXX
HMAA = High Mast	40 = 400 75 = 750 01 = 1000	S = HPS M = MH Standard: Lamp not included.	60Hz 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 T = 220 50Hz 6 = 220 R = 230 Y = 240 NOTE: For over 8 luminaires per pole, use only 480V	See Ballast Selection Table A = Autoreg D = Bilevel System 3. Contact factory for availability. For further technical data see Bilevel Technical Information in Indoor Products Section Page I-96. G = Mag-Reg with Grounded Socket Shell K = Hot Restart M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Rcpt	See Ballast and Photometric Selection Table C = Sag glass lens assembly "shield ready" F = Flat glass G = Glass -Sag lens (Enclosed) N = None (Open) NOTE: N is not available for 1000 watt HPS.	See Ballast and Photometric Selection Table S = Short M = Medium C = Cutoff N = Non-cutoff S = Semi-cutoff 1 = Type I 2 = Type II 3 = Type III 4 = Type IV 5 = Type V	F = Fusing J = Line Surge Protector, Expulsion Type

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Distribution Type, Photometric Curve Number 35-17----													Flat Glass =F		
		Open = N			Sag Lens = G												
		SC5(V)	MC5(V)	MS5(V)	SC5(V)	SS5(V)	SC3(H)	MC2(H)	MC3(H)	MC5(V)	MS2(H)	MS3(H)	MS5(V)	Narrow(H)	MC2(H)	MC5(V)	SC5(V)
400	HPS	6288	6289	N/A	6310	N/A	N/A	7349	9311	6312	N/A	N/A	N/A	8946 (MSIII)	177365	450454	450455
750	HPS	N/A	N/A	N/A	8132	8130	N/A	8345	9144	8131	C/F	N/A	8129	8947 (MSII)	N/A	N/A	452710
1000	HPS	N/A	N/A	N/A	6318	N/A	N/A	7310	7302	N/A	N/A	N/A	N/A	8948 (SCI)	N/A	N/A	452500
400	MH	C/F	C/F	C/F	C/F	N/A	N/A	C/F	C/F	C/F	C/F	N/A	N/A	C/F	N/A	N/A	N/A
1000	MH	6294	6353	N/A	6323	N/A	N/A	7308	N/A	6354	7307	N/A	N/A	8949 (MS)	N/A	N/A	N/A

NOTE: N/A= Not available
C/F = Contact Factory
(V) = Vertical Lamp
(H) = Horizontal Lamp

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type/ Voltage					
		60 HZ			50 HZ		
		120,208,240 277,480	347	220	220	230	240
400	HPS	A,D,G,K,M	A,D,G,M	N/A	N/A	N/A	N/A
750	HPS	A	A	N/A	N/A	N/A	N/A
1000	HPS	A	A	A	A	A	A
400	MH	A,P	A,P	N/A	N/A	N/A	N/A
1000	MH	A,P	A,P	A	A	N/A	N/A

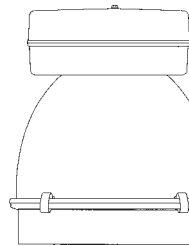
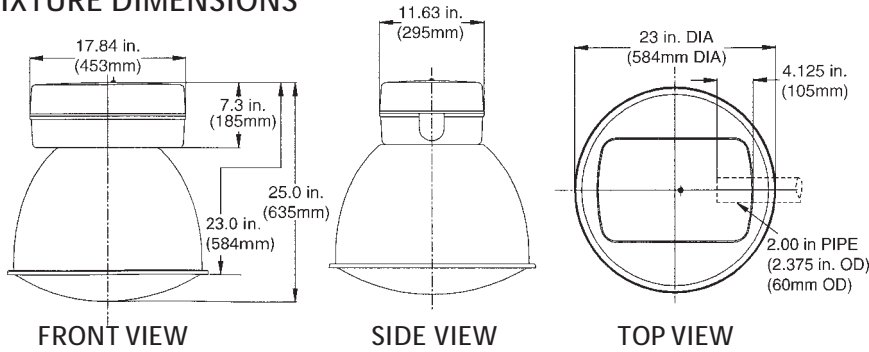
NOTE: N/A= Not available
*Not available in 120 X 347V

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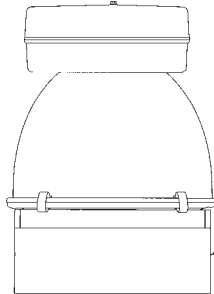
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HIGH MAST LUMINAIRE

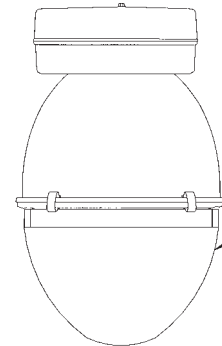
FIXTURE DIMENSIONS



360 NUISANCE SHIELD
ELS-HMAA360BL



ELS-HMAA062
(2) ELS-HMAA063



ELS-HMAA060
(2) ELS-HMAA061

BALLAST AND OPTICAL

		Ballast & Optical, and Glare Shield Effective Projected Area Shields values do not include optical EPA.			
		Effective Area maximum		Weight	
		sq. ft.	sq. m.	lbs.	kgs
BALLAST & OPTICAL	-	2.5	0.23	55	25
ELS-HMAA062	One 9" square	1.8	0.17	2.2	1.0
ELS-HMAA060	One "15" curved	1.8	0.17	2.2	1.0
ELS-HMAA063	Two 9" square	1.8	0.17	2.2	1.0
ELS-HMAA061	Two "15" curved	1.8	0.17	2.2	1.0
ELS-HMAA360BL	4.5 in 360 deg.	0.9	0.08	2.2	1.0

PHOTOMETRIC SELECTION TABLE (WITH HIGHMAST SHIELDING)

Base Curves				HOUSE SIDE		BOTH SIDES		NUISANCE SHIELD ONLY
WATTAGE	LIGHT SOURCE	DIST TYPE	CURVE #	Curved 15"	Square 9"	Curved 15"	Square 9"	3.79" shield 360 deg
400	HPS	MC2	7349	452600	452604	452606	n/a	452610
400	HPS	MC3	9311	452601	452603	452607	n/a	452611
400	HPS	MC5	6312	452602	452605	452608	452609	453112
750	HPS	MC2	8345	452638	452640	452639	452641	452642
750	HPS	MC3	9144	452643	452646	452644	452647	452645
750	HPS	MC5	8131	452650	452651	452649	452652	452648
1000	HPS	SC5	6318	452616	452617	452619	452618	452615
1000	HPS	MC2	7310	452629	452630	452628	452631	452632
1000	HPS	MC3	7302	452635	452636	452634	452637	452633
1000	MH	SC5	6323	452655	452653	452656	452654	452657
1000	MH	MC2	7308	452666	452664	452667	452663	452665
1000	MH	MC5	6354	452658	452661	452659	452660	452662
1000	MH	MS2	7307	452672	452675	452673	452676	452674

HIGHMAST SHIELDING

Highmast Shielding - ordered separately and must use "C" as lens type in catalog logic for fixture.

Door Glass Assembly (for retrofits)	HMAA-22EGELS
15" Curved Shield	ELS-HMAA060
(2) 15" Curved Shields	ELS-HMAA061
9" Squared Shield	ELS-HMAA062
(2) 9" Squared Shields	ELS-HMAA063
Nuisance 360 Shield	ELS-HMAA360BL

DATA

Suggested Mounting Height	40-50 ft.	12-15 M
Single Luminaire	80-150 ft.	24-46 M
Multiple Luminaires		

REFERENCES

See Page R-48 for start of Accessories.

See Page R-52 for Explanation of Options and Other Terms Used.

GE Lighting Systems, Inc.

www.gelighting.com

SKYGARD™ POWR/BRACKET® LUMINAIRE



APPLICATIONS

- For residential streets

SPECIFICATION FEATURES

- Standard is complete unit pack (includes luminaire prewired with two #14, 3 ft [0.9 M] leads, lamp, external PE control, optical assembly, top housing, and mounting hardware consisting of 2-3/8 X 3-inch [60 X 76 mm] lag screws and 5/8 X 10-inch [9 X 254 mm] through bolts.)
- Gray paint finish
- Door-mounted ballast
- Mogul base socket -E39 standard
- Terminal board standard
- Meets full cutoff or cutoff requirements

ORDERING NUMBER LOGIC

SGP	15	S	1	N	5	V5S	C
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	LAMP TYPE
XXXX	XX	X	X	X	X	XXX	X
SGP = SkyGard Powr/Bracket Luminaire	05 = 50 07 = 70 10 = 100 15 = 150(55V) 17 = 175 20 = 200 25 = 250 40 = 400	S = HPS C = Merc	1 = 120 2 = 208 3 = 240 4 = 277	See Ballast Selection Table A = Autoreg H = HPF Reactor or Lag N = NPF Reactor or Lag	5 = PE Receptacle with PE Control	V5S = Open Type 5 SkyGard Latch Type	C = Clear N = None

POWR/BRACKET ROADWAY LIGHTING

R

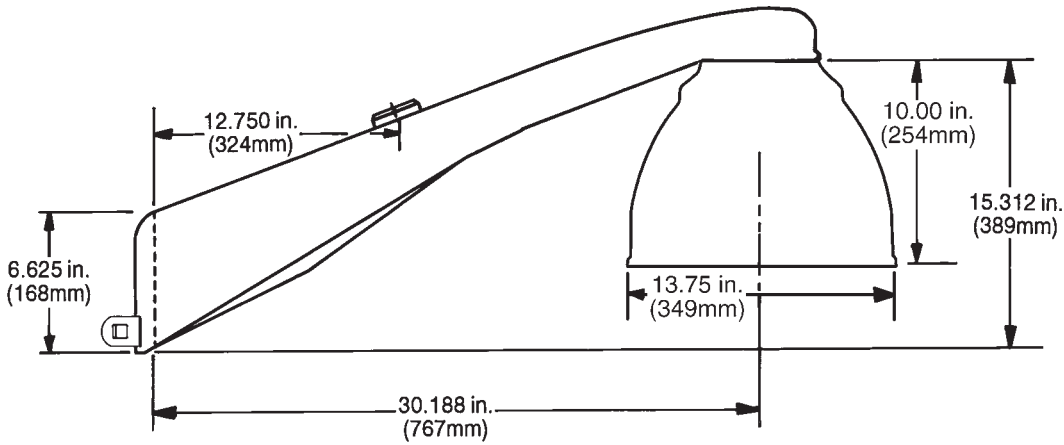
PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Photometric Curve Number 35-45
50	HPS	2565
70	HPS	2566
100	HPS	2564
150	HPS	2563
200, 250	HPS	2570
250	HPS	2567
175	Merc	2562
250	Merc	2569

NOTE: All enclosed photometrics are run with standard PBP optical.

SKYGARD™ POWR/BACKET® LUMINAIRE

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	24-32 lbs	11-15 kgs
Effective Projected Area	2.4 sq. ft. max	0.2 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for Accessories.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage			
		60HZ			
		120	208	240	277
50	HPS	H/N	H/N	H/N	H/N
70,100,150 (55V)	HPS	H/N	N/A	N/A	N/A
200,250	HPS	H/N	H/N	H/N	N/A
175	Merc	N	N/A	H/N	N/A
250,400	Merc	N	N/A	H/N	H/N

NOTE: N/A = Not available

POWR/BRACKET® LUMINAIRE



PBP

APPLICATIONS

- For residential streets

SPECIFICATION FEATURES

- Standard is complete unit pack (includes luminaire prewired with two #14, 3 ft [0.9 M] leads, lamp, external PE control, optical assembly, top housing, and mounting hardware consisting of 2-3/8 X 3-inch [9.5mm X 76 mm] lag screws and 5/8 X 10-inch [15.9mm X 254 mm] through bolts.)
- Gray paint finish
- Door-mounted ballast
- Mogul base socket -E39 standard
- Terminal board standard

ORDERING NUMBER LOGIC

PBS	15	S	1	N	5	V5A	C
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	LENS TYPE	LAMP TYPE
XXXX	XX	X	X	X	X	XXX	X
PBS = Powr/ Bracket Luminaire with Small Optical (250 watt maximum) PBP = Powr/ Bracket Luminaire with Large Optical	05 = 50 07 = 70 10 = 100 15 = 150(55V) 17 = 175 20 = 200 25 = 250 40 = 400	S = HPS C = Merc	1 = 120 2 = 208 3 = 240 4 = 277	See Ballast Selection Table A = Autoreg C = Merc-Reg H = HPF Reactor or Lag M = Mag-Reg N = NPF Reactor or Lag	5 = PE Receptacle with PE Control	V5A = Open Type 5 Acrylic E5L = Enclosed Type 5 Polycarbonate (PBS only; 175 watt maximum)	C = Clear D = Coated N = None

POWR/BRACKET ROADWAY LIGHTING

R

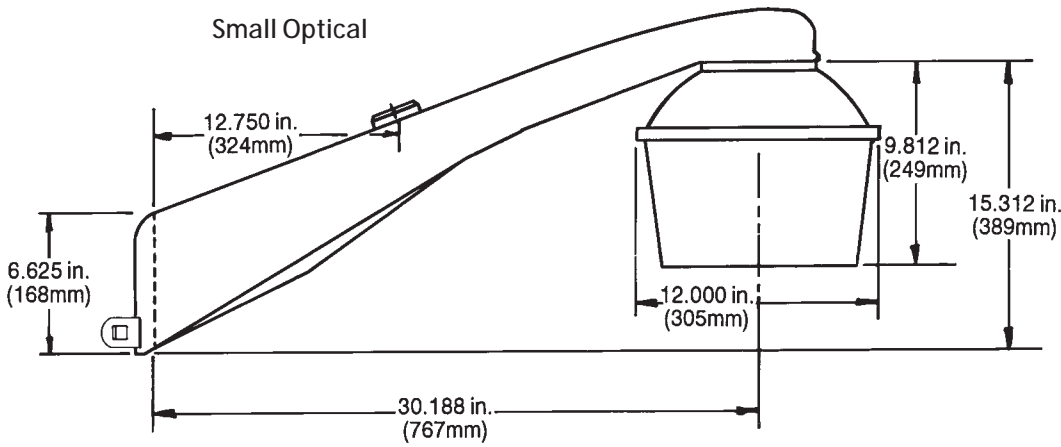
PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Photometric Curve Number 35-17-----
50	HPS	C/F
70, 100, 150(55V)	HPS	6277
200, 250	HPS	6966
175	Merc	C/F
250, 400	Merc	C/F

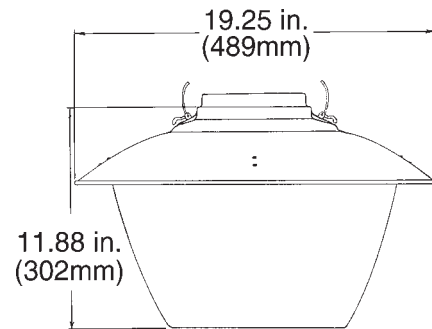
NOTE: C/F = Contact Factory
All enclosed photometrics are run with standard PBP optical.

POWR/BACKET® LUMINAIRE

FIXTURE DIMENSIONS



Large Optical



DATA

Approximate Net Weight	24-32 lbs	11-15 kgs
Effective Projected Area	2.4 sq. ft. max	0.2 sq. M max
Suggested Mounting Height	20-40 ft.	6-12 M

REFERENCES

See Page R-48 for start of Accessories.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type / Voltage			
		60HZ			
		120	208	240	277
50	HPS	H,N	H,N	H,N	H,N
70,100,150(55V)	HPS	H,M,N	M	M	M
200,250	HPS	H,N	H,N	H,N	N/A
175	Merc	C,N	C	C,H,N	C
250,400	Merc	C,N	C	C,H,N	C,H,N

NOTE: N/A = Not available

SKYGARD™

201SA UNIT PACK



APPLICATIONS

- For outdoor work yards, roadside commercial establishments, suburban developments, rural areas where reduced glare and full cutoff lighting is required.

SPECIFICATION FEATURES

- Reduces glare and light trespass
- Complete unit pack in one package standard: includes hood, optical, lamp, PE control, prewired cable and mounting hardware
- Die-cast aluminum hood
- Meets full cutoff requirements
- Slipfitter is adjustable for 1-1/4 in. to 2 in. pipe
- Fits most NEMA (ANSI 136.6 standard) luminaire assemblies
- Simulated wind load tested to 100 mph
- Mounting Hardware Kit
 - (1) 5/8 x 10 Throughbolt and Nut (15.9mm x 254mm)
 - (2) 3/8 x 3 Lag Screws (9.5mm x 76mm)

ORDERING NUMBER LOGIC

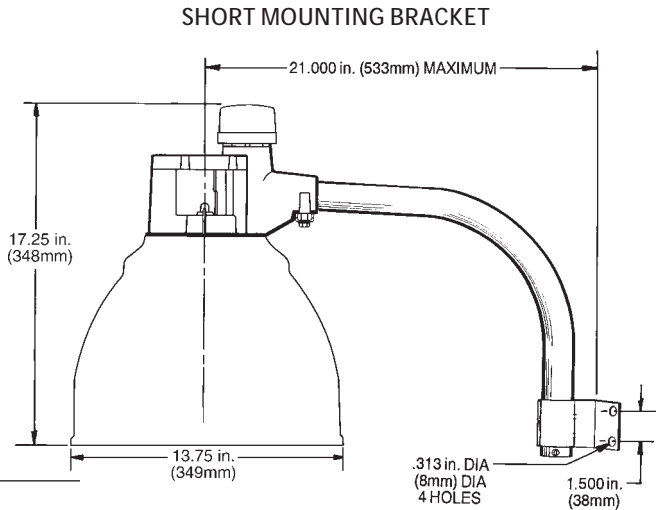
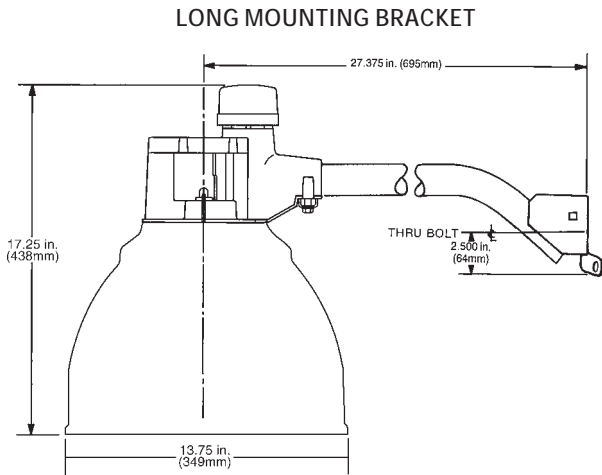
SGR	07	S	1	N	5	2	S	V5SL	C
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	CABLE	MOUNTING BRACKET	LENS TYPE	LAMP TYPE
XXX	XX	X	X	X	X	X	X	XXXX	X
SGR = SKYGARD	07 = 70 10 = 100 15 = 150 (55V) 17 = 175	S = HPS C = Merc	1 = 120 3 = 240	N = NPF Reactor or Lag	2 = PE Receptacle 5 = PE Receptacle with PE Control	2 = 30-in. (762mm) #16 4 = 5-ft (1.5M) #14	L = Long 24-in. (610mm) N = None S = Short	V5SL = Open Type 5 SKYGARD Latch Type	C = Clear

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Type	Photometric Curve Number 35-
70	HPS	5	452513
100	HPS	5	452512
150	HPS	5	452511
175	Merc	5	452514

SKYGARD™ 201SA UNIT PACK

FIXTURE DIMENSIONS



DATA

Approximate Net Weight			
Short 18 in. (457mm) Mounting Bracket	15 lbs	6.8 kgs	
Long 24 in. (610mm) Mounting Bracket	17 lbs	7.7 kgs	
Effective Projected Area	1.4 sq. ft. max	0.13 sq. M max	
Suggested Mounting Height	12-25 ft.	4-8 M	

REFERENCES

See Page R-48 for Accessories.

SUGGESTED CATALOG NUMBERS

Opticals Only:	GE Manufacturing Number	
SGR-1	145298	Single Pack
SGR-5	145299	5 Pack - Order as quantity needed in total

Kits with Long Arm, PE, Lamp and Cable included	Light Source	Voltage	GE Manufacturing Number		Wattage
SGR07S1N54LV5SLC		145618	70	HPS	120
SGR10S1N54LV5SLC		145619	100	HPS	120
SGR15S1N54LV5SLC		145620	150	HPS	120
SGR17C1N54LV5SLC		145877	175	Merc	120
SGR17C3N54LV5SLC		145617	175	Merc	240

201SA UNIT PACK



APPLICATIONS

- For outdoor work yards, roadside commercial establishments, suburban developments, rural areas

SPECIFICATION FEATURES

- Complete unit pack in one package standard: includes hood, optical, lamp, PE control, prewired cable and mounting hardware
- Die-cast aluminum hood
- Some units are / Listed as noted
- Slipfitter is adjustable for 1-1/4 in. to 2 in. pipe
- Mounting Hardware Kit
 - (1) 5/8 x 10 Throughbolt and Nut (15.9mm x 254mm)
 - (2) 3/8 x 3 Lag Screws (9.5mm x 76mm)

ORDERING NUMBER LOGIC

SAM	07	S	1	N	5	2	S	V5AS	C
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	CABLE	MOUNTING BRACKET	LENS TYPE	LAMP TYPE
XXX	XX	X	X	X	X	X	X	XXXX	X
SAM = 201SA Type unit pack	07 = 70 10 = 100 15 = 150** (55V) 16 = 150 (100V) 17 = 175	S = HPS C = Merc Standard: Lamp not included.	1 = 120 3 = 240 S = 127*	N = NPF Reactor or Lag	2 = PE Receptacle 5 = PE Receptacle with PE Control	2 = 30-in. (762mm) #16 4 = 5-ft (1.5M/ #14	L = Long 24-in. (610mm) N = None S = Short (Required for / Listing)	V2AL = Open Type 2 Acrylic Latch Type V3AL = Open Type 3 Acrylic Latch Type V5AL = Open Type 5 Acrylic Latch Type V5AS = Open Type 5 Acrylic Screw Type (Required for / Listing)	C = Clear D = Coated T = Terminal Board (Not available with V5AS lens) U = UL/CUL Listed

*For 175 watt mercury rough service applications where line voltage may run consistently high

** Not available with 240V, use 16 wattage for 240V, 150W units

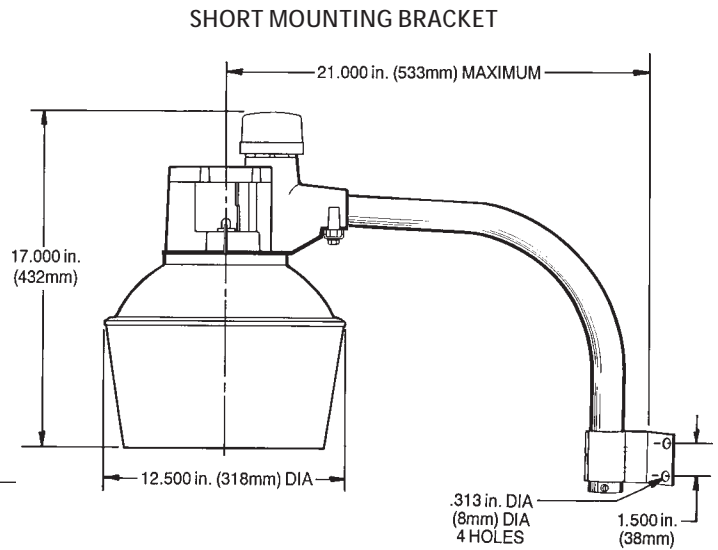
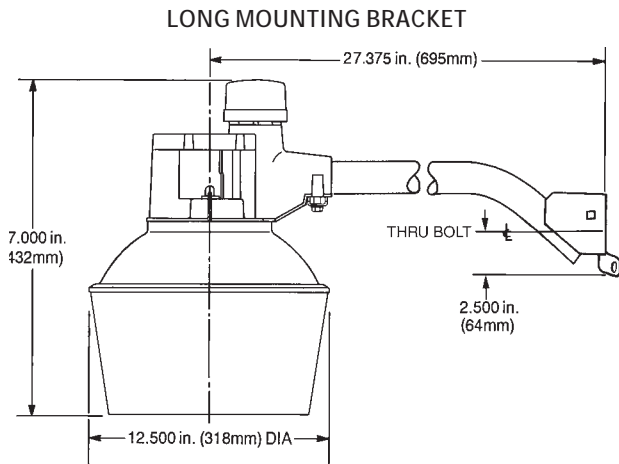
PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	IES Type	Photometric Curve Number
70, 100, 150 (55V)	HPS	5	35-176919
70, 100, 150 (55V)	HPS	2*	35-178983
70, 100, 150 (55V)	HPS (Diffuse)	3*	35-178984
175	Merc	5	35-450311

* Contact factory for Ordering Numbers

201SA UNIT PACK

FIXTURE DIMENSIONS



DATA

Approximate Net Weight			
Short 18 in. (457mm) Mounting Bracket	14 lbs		6.4 kgs
Long 24 in. (610mm) Mounting Bracket	16 lbs		7.3 kgs
Effective Projected Area	1.37 sq. ft. max		0.1 sq. M max
Suggested Mounting Height	12-25 ft.		4-8 M

REFERENCES

See Page R-48 for start of Accessories.
See Page R-52 for Explanation of Options and Other Terms Used.

AVAILABLE AS GE READI-STOCK

Catalog Number	Wattage	Light Source	Voltage (60Hz)	Ballast Type	Mounting Bracket	Lamp
SAM10SL	100	HPS	120	NPF Reactor	Long	Yes
SAM15SL	150	HPS	120	NPF Reactor	Long	Yes
SAM17CS	175	Mercury	120	NPF Lag	Short	Yes
SAM17CL	175	Mercury	120	NPF Lag	Long	Yes
SAM17CSDX	175	Mercury	120	NPF Lag	Long	Yes (DX)

All GE Read-Stock 201 SA unit packs come complete with open Acrylic type 5 latch mounted optical, mounting hardware, cable, PE control in addition to lamp type and mounting bracket listed above.

SOLARIS™ INTERNATIONAL LUMINAIRE



Prismatic Refractive Optics

APPLICATIONS

- For residential streets, parking lots and roadways

SPECIFICATION FEATURES

- Alzak' finished reflector with either prismatic borosilicate glass refractor or clear ellipsoidal glass
- Charcoal filtered optical compartment
- High pressure die-cast aluminum body
- Universal two bolt slipfitter or 60mm (2.36 in.) post top mounting
- Top access to lamp and ballast components
- Stainless steel hardware
- Electrocoat gray paint finish
- Lamp included

ORDERING NUMBER LOGIC

S40L	15	S	6	N	2	P	MC3	N	C	F
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	PE FUNCTION	REFRACTOR	IES/CIE DISTRIBUTION TYPE	MOUNTING	LAMP TYPE	OPTIONS
XXXX	XX	X	X	X	X	X	X	X	X	X
S26L = Medium E26 Base	HPS 07 = 70/52 10 = 100/55 11 = 100/100	S = HPS C = Merc Standard Lamp not included.	60 Hz S = 127 T = 220 W = 230 3 = 240	See Ballast Selection Table	1 = None 2 = PE Receptacle 5 = PE Receptacle with PE Control	P = Prismatic S = Clear	See Photometric Selection Table	L = Long 24-in. (610mm) N = No Bracket T = Post Top Mounting	C = Clear D = Coated N = No Lamp	F = Fusing
S27L = Medium E27 Base	15 = 150/55 16 = 150/100 79 = 70/90		50 Hz 6 = 220 R = 230 Y = 240	H = High Power Factor Reactor N = Normal Power Factor Reactor	NOTE: Receptacle connected same voltage as unit.		S = Short M = Medium C = Cutoff S = Semi-cutoff			
S39L = Mogul E39 Base	Mercury 08 = 80						2 = Type II 3 = Type III 4 = Type IV			
S40L = Mogul E40 Base	10 = 100 12 = 125 17 = 175									

PHOTOMETRIC SELECTION TABLE

All light sources are clear unless otherwise indicated.

Wattage	Base Type	Light Source	IES Distribution Type Photometric Curve Number 35-17 ---- (IES/CIE Distribution Type)	
			Prismatic Refractor	Clear Globe
70, 100, 150 (55V)	E26	HPS	9949 (MSIV)	9950 (MCIII)
70 (90V)	E27	HPS	9666 (MCIII)	9983 (SCII)
100 (100V)	E40	HPS	9921 (MCIII)	9946 (MCII)
150 (100V)	E40	HPS	9667 (MCIII)	9943 (SCII)
70, 100, 150 (55V)	E26	HPS (coated)	9948 (SCIII)	9947 (SCIII)
70 (90V)	E27	HPS (coated)	9936 (SCIII)	9940 (*)
100 (100V)	E40	HPS (coated)	9938 (SCIII)	9939 (*)
150 (100V)	E40	HPS (coated)	9967 (*)	9968 (*)
80	E27	Merc (coated)	9992 (SCIII)	9991 (*)
100	E26	Merc (coated)	9935 (SCIII)	9937 (*)
125	E27	Merc (coated)	9944 (SCIII)	9945 (*)
175	E39	Merc (coated)	9941 (*)	9942 (*)

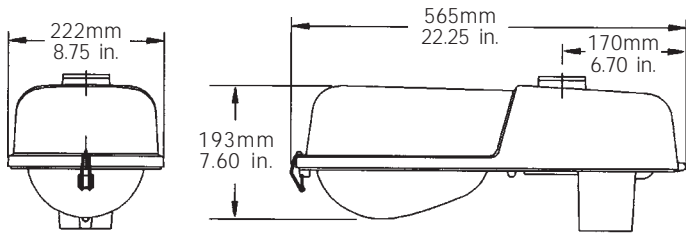
*Denotes no IES classification

GE Lighting Systems, Inc.
www.gelightingssystem.com

SOLARIS™ INTERNATIONAL LUMINAIRE

FIXTURE DIMENSIONS

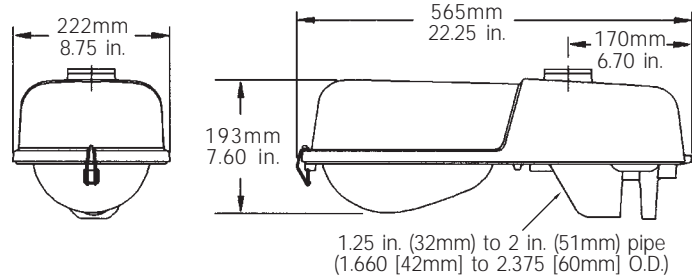
60mm (2.36 IN.) POST TOP MOUNTING



FRONT VIEW

SIDE VIEW

2-BOLT SLIPFITTER MOUNTING



FRONT VIEW

SIDE VIEW

DATA

Approximate Net Weight	20-30 lbs	9-14 kgs
Effective Projected Area	0.8 sq. ft. max	0.7 sq. M max
Suggested Mounting Height	18-25 ft.	6-7 M

REFERENCES

See Page R-48 for start of Accessories.
See Page R-52 for Explanation of Options and Other Terms Used.

BALLAST SELECTION TABLE

Wattage	Light Source	Ballast Type						
		60 Hertz				50 Hertz		
		127V	220V	230V	240V	220V	230V	240V
70 (90V), 100, 150 (100V)	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N
70 (52V), 100, 150 (55V)	HPS	H,N	H,N	H,N	H,N	H,N	H,N	H,N
100, 175	Merc	H,N	H,N	H,N	H,N	H,N	H,N	H,N
80, 125	Merc	H,N	H,N	H,N	H,N	H,N	H,N	H,N

EPOXY ENCAPSULATED BALLAST

APPLICATIONS

- For remote ballasting

SPECIFICATION FEATURES

- Standard frequency – 60 Hertz
- Not suitable for direct burial
- Multiple circuit ballast standard lead length is 12 inches (305mm)
- Series circuit (mercury) ballast leads:
 - Primary – 18-inch (457mm)/#8 (5Kv)
 - Secondary – 18-inch (457mm)/#16 (600V)
- Includes mounting bracket

DO NOT USE ORDERING NUMBER LOGIC TO DEVELOP AN ORDERING NUMBER. SEE BALLAST SELECTION TABLE ORDERING NUMBERS.

ORDERING NUMBER LOGIC INFORMATION ONLY (See Selection Table for Actual Ordering Number)

ENC	40	C	0	C	6	DATA
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	AMBIENT °C	Approximate Net Weight
XXX	XX	X	X	X	X	Multiple Circuit
ENC= Encapsulated Ballast	10 = 100 17 = 175 25 = 250 40 = 400 70 = 700 80 = Twin 400 01 = 1000 51 = 1500	M = MH C = Merc	0 = 120/ 208/ 240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 7 = 120X240 9 = 240X480 X = Special	A = Autoreg (MH only) C = Merc-Reg S = Series (Merc only)	6 = 65	MH 175-250W 23 lbs 10 kgs 400W 34 lbs 15 kgs 800-1500W 56 lbs 25 kgs Merc 100-400W 23 lbs 10 kgs 700W 42 lbs 19 kgs Series Circuit Merc 100-175W 23 lbs 10 kgs 250-400W 28 lbs 13 kgs 700-1000W 48 lbs 22 kgs

BALLAST SELECTION TABLE

Multiple Circuit Ballasts			
Wattage	Light Source	Voltage	Ordering Number
175	MH	Multivolt 480	ENC17M0A6
175	MH	480	ENC17M5A6
250	MH	Multivolt 480	ENC25M0A6
250	MH	480	ENC25M5A6
400	MH	Multivolt 480	ENC40M0A6
400	MH	480	ENC40M5A6
800*	MH	120X240 480	ENC80M7A6
800*	MH	480	ENC80M5A6
800*	MH	277	ENC80M4A6
1000	MH	Multivolt 480	ENC01M0A6
1000	MH	480	ENC01M5A6
1500	MH	Multivolt 480	ENC51M0A6
100	Merc	120X240 480	ENC10C7C6
100	Merc	240X480	ENC10C9C6
400	Merc	120X240 208	ENC40C7C6
400	Merc	240X480 277	ENC40C2C6
400	Merc	240X480	ENC40C9C6
400	Merc	277	ENC40C4C6
700	Merc	Multivolt 240X480	ENC70C0C6
700	Merc	240X480	ENC70C9C6

Series Circuit Ballasts					
Wattage	Light Source	Amps	Open Circuit Voltage (RMS)	Loading Factor**	Ordering Number
100	Merc	6.6	300	0.30	ENC10CX56010
175	Merc	6.6	290	0.40	ENC17CX56010
250	Merc	6.6	300	0.47	ENC25CX56010
400	Merc	6.6	290	0.65	ENC40CX56010
700	Merc	6.6	540	1.20	ENC70CX56010
1000	Merc	6.6	540	1.55	ENC01CX56010

NOTE: *Two lamps in parallel.

NOTE: **Kilowatts of constant-current transformer capability per ballast recommended for proper operation.

MULTIPLE CIRCUIT

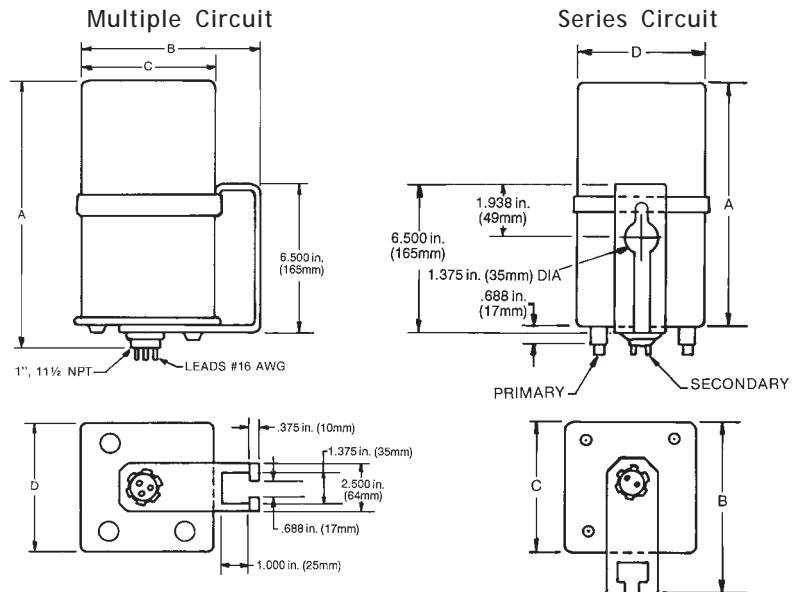
Ballast Type	Wattage	A		B		C		D	
		inch	mm	inch	mm	inch	mm	inch	mm
MH	175, 250	8.000	203	8.000	203	6.250	159	6.000	152
MH	400	11.625	295	8.000	203	6.250	159	6.000	152
MH	800*, 1000, 1500	12.250	311	9.000	229	7.000	178	7.000	178
Merc	100	10.250	260	7.125	181	5.250	133	5.250	133
Merc	700	10.188	259	9.000	229	7.000	178	7.000	178

NOTE: *Two lamps in parallel.

SERIES CIRCUIT

Ballast Type	Wattage	Amps	A		B		C		D	
			inch	mm	inch	mm	inch	mm	inch	mm
Merc	100, 175, 250, 400	6.6	8.000	203	8.000	203	6.250	159	6.000	152
Merc	700, 1000	6.6	10.188	259	9.000	229	7.000	178	7.000	178

FIXTURE DIMENSIONS



EPOXY ENCAPSULATED BALLAST

APPLICATIONS

- For indoor sports applications (Suitable for Damp Locations Only)

SPECIFICATION FEATURES

- Standard frequency – 60 Hertz
- Not suitable for direct burial
- Multiple circuit ballast standard lead length is 12 inches (305mm)
- Attached wiring/mounting box

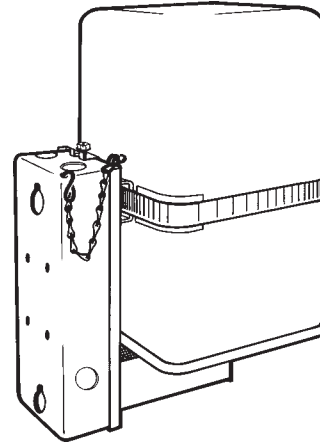
DATA

Approximate Net Weight			
Multiple Circuit			
MH	400W	50 lbs	23 kgs
	1000W	57 lbs	26 kgs

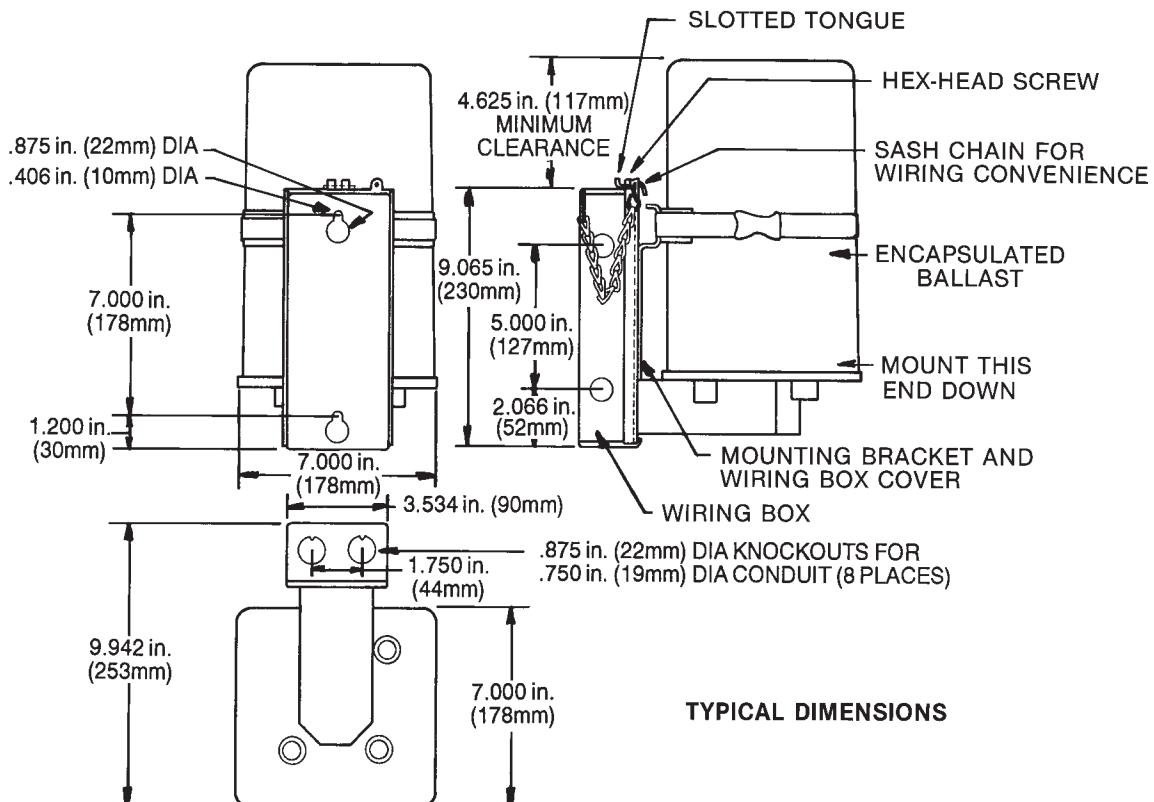
BALLAST SELECTION TABLE

Multiple Circuit Ballasts

Wattage	Light Source	Voltage	Ordering Number
400	MH	Multivolt	ENC40M0A6018
400	MH	480	ENC40M5A6018
1000	MH	Multivolt	ENC01M0A6018
1000	MH	480	ENC01M5A6018



FIXTURE DIMENSIONS



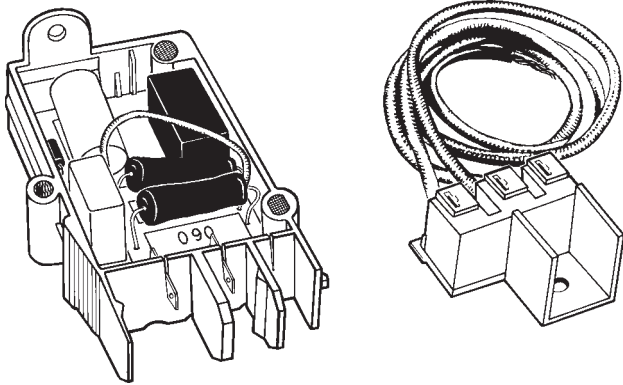
REPLACER™ IGNITOR KIT

APPLICATIONS

- A replacement for ignitors in HPS fixtures (having adequate space) of 35 through 400 watts

SPECIFICATION FEATURES

- Self-contained high voltage pulse generator
- Plug-in design
- Useable with 35 through 400 watt HPS lamps
- Comes complete with installation hardware and instructions
- Factory burn-in before shipment
- Two lead design - no ballast tap required



ORDERING INFORMATION

- **REPLACER IGNITOR KIT**
Ordering Number 35-967410-51 (Includes all installation components)
- **REPLACER IGNITOR ONLY***
Ordering Number 35-216710R01*
*Primarily for fixtures with existing GE built-in plug-in ignitor capability

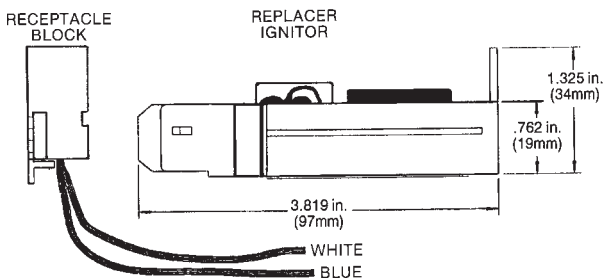
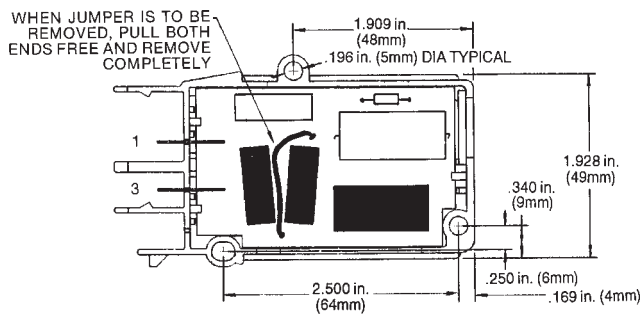
APPLICATION INFORMATION

As the APPLICATION TABLE below shows, when installing GE Replacer Ignitors:

- Leave Jumper in place for 52-55 volt HPS lamps of 35 through 150 watts
- Cut Jumper for 90-100 volt HPS lamps of 70 through 400 watts

CAUTION: FAILURE TO CUT JUMPER WHEN REQUIRED CAN CAUSE IGNITOR FAILURES.

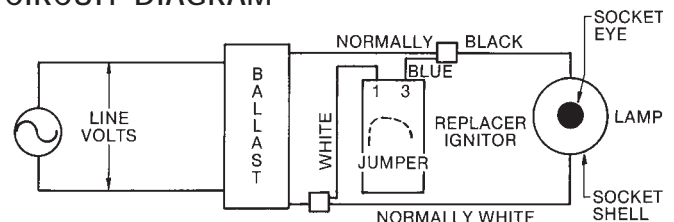
FIXTURE DIMENSIONS



APPLICATION TABLE

ANSI LAMP TYPE	LAMP WATTAGE	LAMP VOLTAGE	CUT JUMPER	DO NOT CUT JUMPER
S76	35	52		X
S68	50	52		X
S62	70	52		X
S88	70-90	90	X	
S54	100	55		X
S55	150/55	55		X
S56	150/100	100	X	
S66	200	100	X	
S50	250	100	X	
S67	310	100	X	
S51	400	100	X	

CIRCUIT DIAGRAM



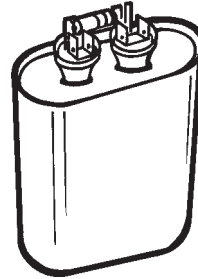
REPLACER™ BALLAST KITS

APPLICATIONS

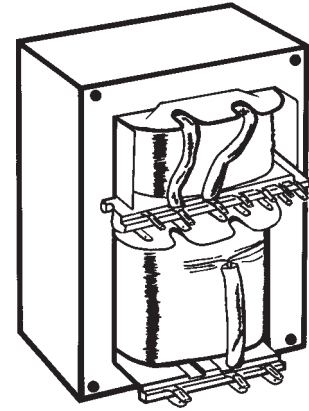
- A replacement high intensity discharge ballast
- A conversion ballast to more efficient HID light sources

SPECIFICATION FEATURES

- Precision wound molded bobbin construction
- Welded core construction
- Quick disconnect wiring terminals
- Complete with installation hardware
- Plug-in ignitor design, three leaved, 400 watt HPS and below



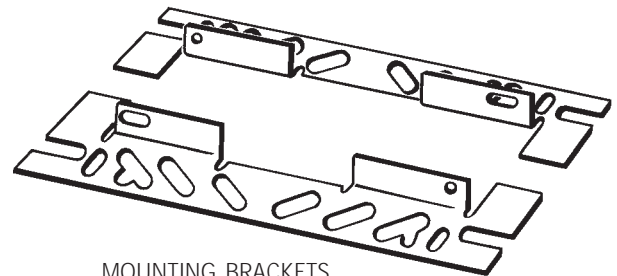
CAPACITOR



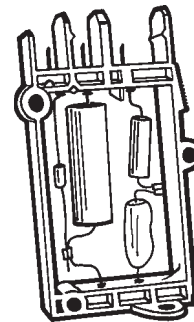
CORE AND COILS

ORDERING NUMBER LOGIC

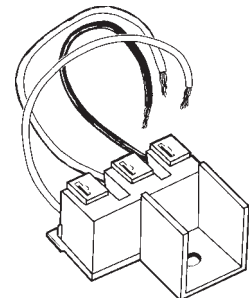
GERB	24	S	0	H
PRODUCT IDENT	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE
XXXX	XX	X	X	X
GERB = General Electric Replacer Ballast	03 = 35 05 = 50 07 = 70 10 = 100 15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400 25 = 250 31 = 310 40 = 400 01 = 1000 51 = 1500	S = HPS M = MH or Mercury C = Mercury only	0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480	A = Autoreg C = Merc-Reg H = HPF Reactor or Lag N = NPF Reactor



MOUNTING BRACKETS



IGNITOR



LEADS

MOST FREQUENTLY ORDERED

Wattage	Voltage	Ordering Number
High Pressure Sodium (HPS)		
70	Multivolt	GERB07S0H
70	480	GERB07S5H
100	Multivolt	GERB10S0H
100	480	GERB10S5H
150(55V)	Multivolt	GERB15S0H
150(55V)	480	GERB15S5H
250/400	Multivolt	GERB24S0A
250/400	480	GERB24S5A
1000	Multivolt	GERB01S0A
1000	480	GERB01S5A
Metal Halide and Mercury		
175	Multivolt	GERB17M0A
175	480	GERB17M5A
250	480	GERB25M5A
250/400	Multivolt	GERB24M0A
400	480	GERB40M5A
1000	Multivolt	GERB01M0A
1000	480	GERB01M5A
1500	Multivolt	GERB51M0A
1500	480	GERB51M5A

REFERENCES

See Technical Section Page T-9 for start of Ballast Electrical Data.

REPLACER™ BALLAST KITS

FIXTURE DIMENSIONS (INCHES)

CAPACITORS

ORDERING NUMBER	A	B	C
GERB07S0H	2.156	1.312	4.562
GERB07S5H	2.156	1.312	3.312
GERB10S0H	2.156	1.312	4.562
GERB10S5H	2.156	1.312	3.531
GERB15S0H	2.688	1.562	4.188
GERB15S5H	2.156	1.312	4.562
GERB24S0A	2.906	1.906	4.562
GERB24S5A	2.906	1.906	4.562
GERB01S0A	2.906	1.906	6.438
GERB01S5A	2.906	1.906	6.438
GERB17M0A	2.688	1.562	3.625
GERB17M5A	2.334	1.562	3.625
GERB25M5A	2.688	1.562	5.000
GERB24M0A	2.906	1.906	4.562
GERB40M5A	2.906	1.906	4.625
GERB01M0A	2.906	1.906	5.938
GERB01M5A	2.906	1.906	5.938
GERB51M0A	3.656	1.969	6.375
GERB51M5A	3.656	1.969	6.375

CORE AND COILS

ORDERING NUMBER	FIG. #	A	B	C	D	E	F	G	MOUNTING FIG. #
GERB07S0H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB07S5H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB10S0H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB10S5H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB15S0H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB15S5H	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB24S0A	1	5.506	3.919	4.590	2.481	1.288	5.086	3.337	5
GERB24S5A	1	5.506	3.919	4.590	2.481	1.288	5.086	3.337	5
GERB01S0A	2	6.688	5.438	4.875	2.750	1.438	5.938	3.000	4
GERB01S5A	2	6.688	5.438	4.875	2.750	1.438	5.938	3.000	4
GERB17M0A	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB17M5A	1	4.834	4.424	3.159	1.170	1.322	4.414	3.000	3
GERB25M5A	1	5.506	3.919	3.860	1.771	1.357	5.086	3.337	6
GERB24M0A	1	5.506	3.919	3.860	1.771	1.357	5.086	3.337	6
GERB40M5A	1	5.506	3.919	4.570	2.481	1.361	5.086	3.337	5
GERB01M0A	2	6.688	5.438	4.875	2.750	1.438	5.938	3.000	4
GERB01M5A	2	6.688	5.438	4.875	2.750	1.438	5.938	3.000	4
GERB51M0A	2	6.988	5.438	5.500	3.375	1.438	5.938	3.000	4
GERB51M5A	2	6.688	5.438	5.500	3.375	1.438	5.938	3.000	4

ROADWAY LIGHTING REPLACER KITS

R

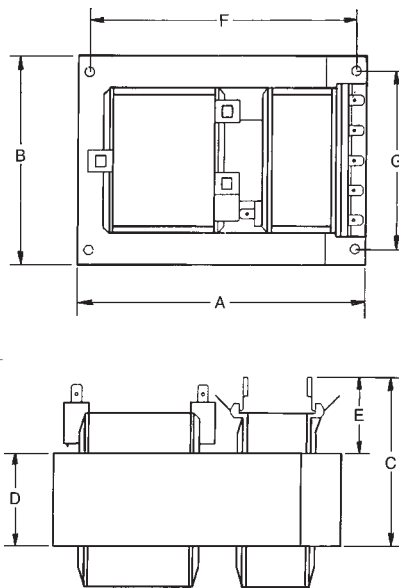
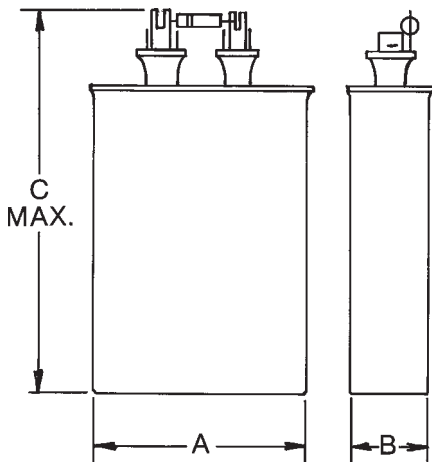


Figure 1

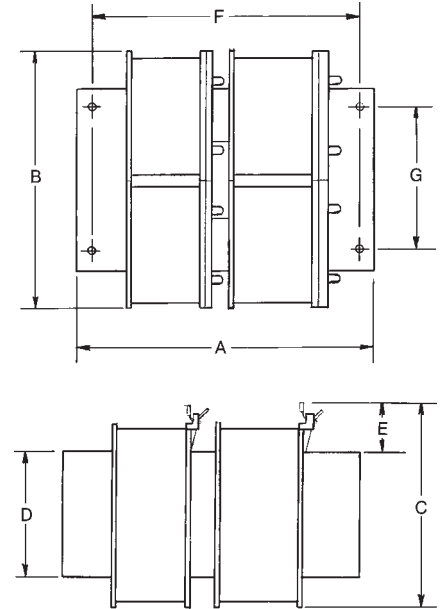


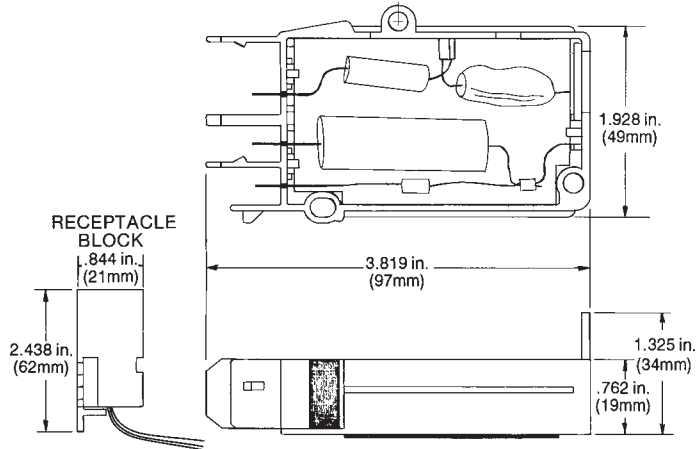
Figure 2

REPLACER™ BALLAST KITS

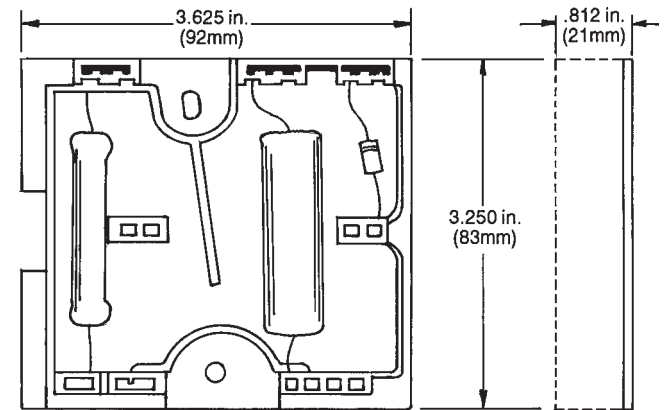
FIXTURE DIMENSIONS

HPS IGNITORS

PLUG-IN - 750-WATT AND BELOW



1000-WATT



MOUNTING BRACKETS

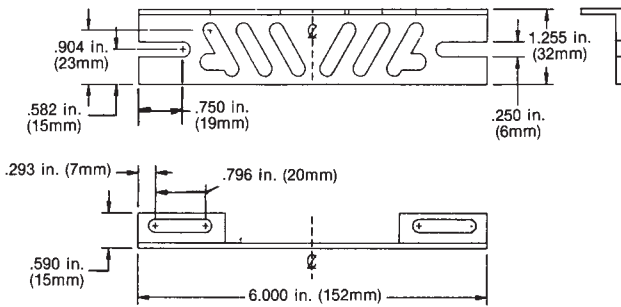


Figure 3—70, 100, 150, WATT HPS
175 WATT METAL HALIDE
(2 supplied)

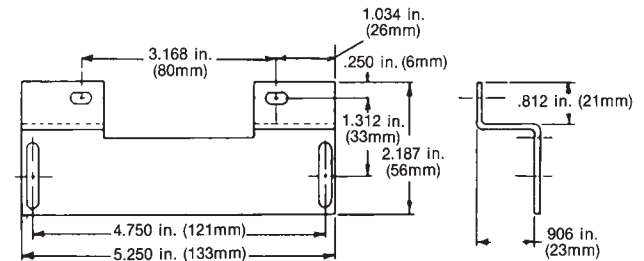


Figure 4—1000 WATT HPS AND METAL HALIDE
1500 WATT METAL HALIDE
(2 supplied)

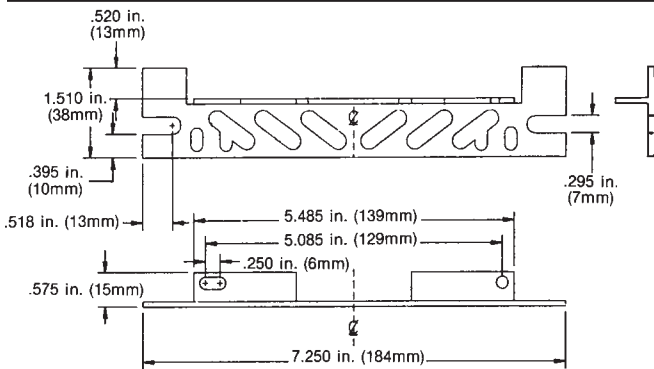


Figure 5—250/400 WATT HPS (ALL VOLTAGES)
400 WATT/480 VOLT METAL HALIDE
(2 supplied)

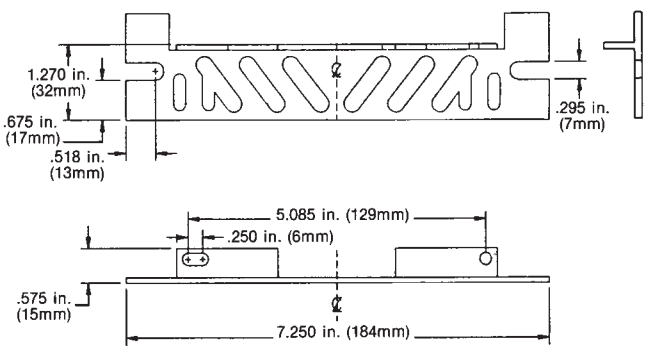


Figure 6—250/400 WATT METAL HALIDE MULTIVOLT
250 WATT/480 VOLT METAL HALIDE
(2 supplied)

ROADWAY LIGHTING REPLACER KITS



ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

See following Accessory pages for dimension drawings and descriptions.

LEGEND: ////////////// = Accessory can be used.

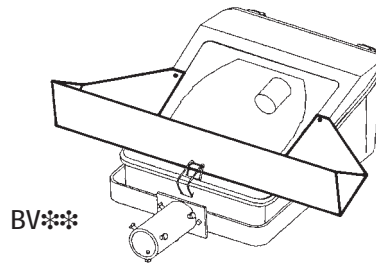
INDEX	PRODUCT													
Ordering Number	M-250A2	M-250A2 Cutoff	M-250R2	M-250R2 Cutoff	M-400A	M-400A Cutoff	M-400	M-400 Cutoff	Signlitter V2FN V2FS	Turnpike	Tunnel Guard	HighMast	Powr/ Bracket	201SA
BOTTOM VISOR														
BVAL-V2FS									////					
BVDB-V2FS									////					
CORNER MOUNTING ADAPTER														
CMA-PB													//////////	
CROSS ARM ADAPTER See Floodlight Accessories														
CAA-001										//////////				
AUXILIARY CROSS ARM See Floodlight Accessories														
CAB-001										//////////				
EXTERNAL "CUTOFF" VISOR (GRAY) See Page 305														
ECVGR-RPF										//////////				
EXTERNAL LIGHT SHIELD														
ELS-M2A	//////////	//////////												
ELS-M2R			//////////	//////////										
ELSHS-M4R					//////////	//////////	//////////	//////////						
FLOODLIGHT BRACKET See Floodlight Accessories														
FBSFA2-TTPP										//////////				
FUSE KIT														
FK1-M24	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////						
FK2-M24	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////						
HAIL SHIELD														
HMAA-HS													//////////	
INTERNAL LIGHT SHIELD														
ILS-M2	//////////		//////////											
ILS-M4					//////////		//////////							
ILS-M4RL					//////////		//////////							
ILS-PBP													//////////	
ILS-PBS													//////////	//////////
LINE SURGE PROTECTOR, EXPULSION TYPE														
35-411749R01	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////		//////////		//////////	//////////	//////////
MOUNTING BRACKET														
MB-PECTL	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////						
PHOTOELECTRIC CONTROL														
PECOTL	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////		//////////	//////////
PEC1TL	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////		//////////	//////////
PEC5TL	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////		//////////	//////////
POLE TOP ADAPTER														
PTA-PECTL													//////////	
POLYCARBONATE VANDAL SHIELD See Floodlight Accessories														
LVS-P4F									////					
SHORTING CAP														
SCCL-PECTL	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////		//////////	//////////	//////////
TOP VISOR See Area Accessories														
TVDB-V2F									////					
VANDAL SHIELD™ LUMINAIRE PROTECTOR														
PPS-M2AC		//////////												
PPS-M2RC1				//////////										
PPS-M2RC2				//////////										
PPS-M4C						//////////		//////////						
PPS-M2R	//////////		//////////											
PPS-M4R					//////////		//////////							
WALL MOUNTING ADAPTER														
WMA-PB													//////////	
WIRE GUARD See Floodlight Accessories														
WG-P4F									////					

ROADWAY LIGHTING ACCESSORIES

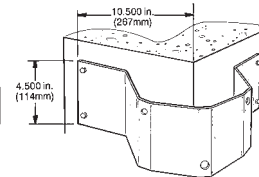
R

ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.



BV***



CMA-PB

BOTTOM VISOR

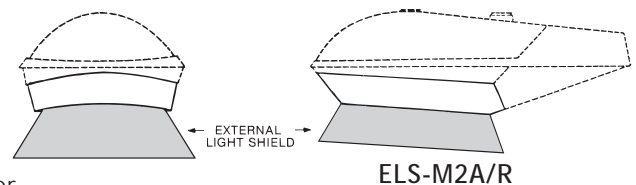
- BVAL-V2FS Aluminum
- BVDB-V2FS Dark Bronze

CORNER MOUNTING ADAPTER

- CMA-PB

EXTERNAL LIGHT SHIELD

- ELS-M2A
For M-250A2 (360° shield)
- ELS-M2R
For M-250R2 (360° shield)
- ELSHS-M4R
House side light shield for M400 and M400A non-cutoff, house or street side light shield for MSRL/MSCL/MDRA/MDCA

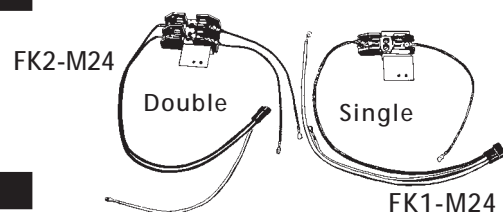


ELS-M2A/R

ELSHS-M4

FUSE KITS (LESS FUSE[S])

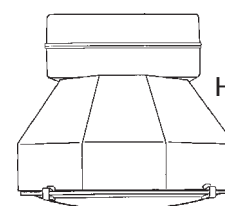
- FK1-M24
Single
- FK2-M24
Double



FK1-M24

HAIL SHIELD

- HMAA-HS
Hail shield for high mast luminaire

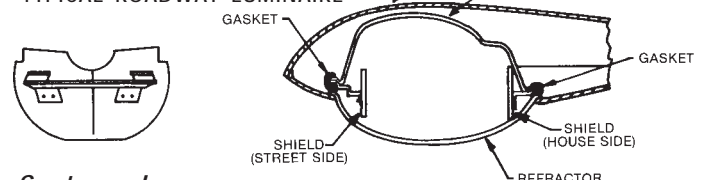


HMAA-HS

INTERNAL LIGHT SHIELD

- ILS-M2
House or street side light shield for M-250A and M-250R non-Cutoff
- ILS-M4
House or street side light shield for M-400A and M-400 non-cutoff or refractor type units
- ILS-M4RL
House or street side light shield for MSRL/MDRL non-cutoff or refractor type units

TYPICAL ROADWAY LUMINAIRE

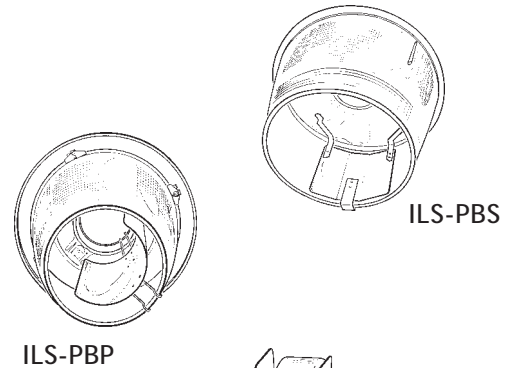


ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

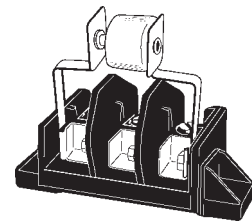
INTERNAL LIGHT SHIELD

- **ILS-PBP**
For large PBP Open Opticals
- **ILS-PBS**
For small PBS Open Opticals and 201 SA
(Optical not included)



LINE SURGE PROTECTOR, EXPULSION TYPE

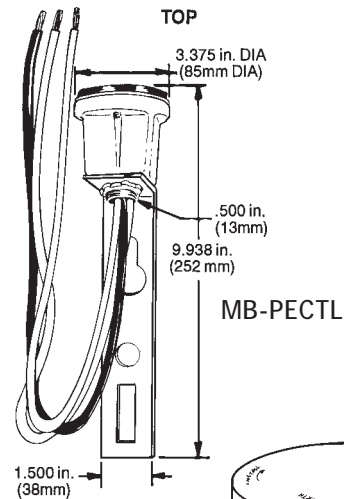
- **35-411749R01**
Can be added to most fixture terminal boards.
See Roadway Data Section.



35-411749R01

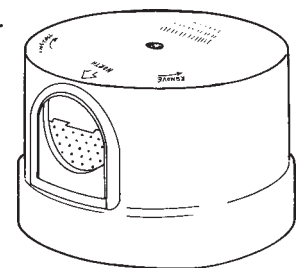
MOUNTING BRACKET AND LOCKING-TYPE RECEPTACLE

- **MB-PECTL**
For use with photoelectric control (remove bracket to use with conduit)



PHOTOELECTRIC CONTROL

- **PEC0TL**
120, 208, 240, 277V Multivolt Turn and Lock
- **PEC1TL**
120V Turn and Lock
- **PEC5TL**
480V Turn and Lock



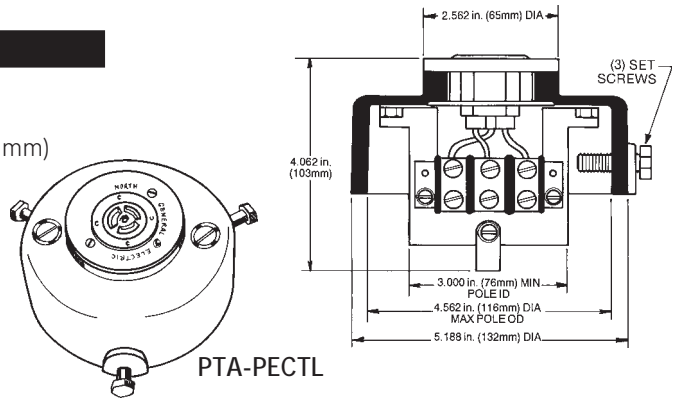
PEC0TL

ACCESSORIES

REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.
ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.

POLE TOP ADAPTER

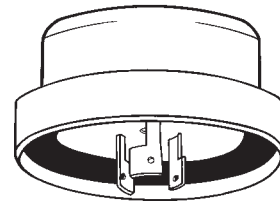
- **PTA-PECTL**
For use with locking-type photoelectric controls mounted on pole tops with an OD of from 3-1/2 to 4-1/2 inches (89 to 114mm)



PTA-PECTL

SHORTING CAP

- **SCCL-PECTL**
With standard three-prong plug



SCCL-PECTL

VANDAL SHIELD™ LUMINAIRE PROTECTOR

These VANDAL SHIELD™ protectors have been tested with pistols firing up to and including .44 caliber factory loaded ammunition. The protectors carry a one year warranty against defects in workmanship and materials only.

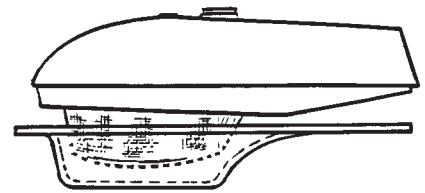
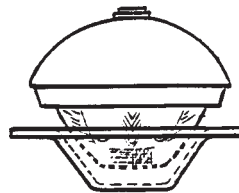
FOR LUMINAIRES WITH CUTOFF OPTICS

- **PPS-M2AC** – For M-250A2 c/o (150W Max)
- **PPS-M2RC1** – For M-250R2 c/o (150W Max)
- **PPS-M2RC2** – For M-250R2 c/o (250W Max)
- **PPS-M4C** – For M-400A2 c/o and M-400R2 c/o (250W Max)
- **PPS-MSCL** – For MDCL and MSCL (250W Max)



FOR LUMINAIRES WITH GLOBE/REFRACTOR OPTICS

- **PPS-M2R** – For M-250A2 and M-250R2 (250W Max)
- **PPS-MSRL** – For M-400A2 and M-400R2 (250W Max)

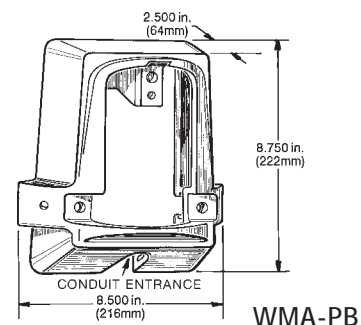


NOTES: Installation of these protectors alters photometrics - consult factory.

Additional loads imposed by these protectors may shorten the mechanical life of the luminaire.

WALL MOUNTING ADAPTER

- **WMA-PB**
For Powr/Bracket® luminaire



WMA-PB

ROADWAY DATA

EXPLANATION OF OPTIONS

B = TIME DELAY AUTOMATICALLY SWITCHED QUARTZ

Most luminaires can be provided with automatically switched quartz/instant-on safety lighting where momentary power interruptions or extreme voltage dips can extinguish an HID lamp. A single-ended quartz lamp is placed in the same reflector with the metal halide, mercury or HPS lamp. The quartz lamp will remain on until the HID lamp strikes and reaches approximately 60% light output. This also means that the quartz lamp will come on when the luminaire is initially energized and remain on until the HID lamp reaches 60% light output.

C = CHARCOAL FILTER

Charcoal filter with elastomer gasket helps keep optical assembly clean.

F = FUSING (not available with multivolt or dual voltage.

Not available 208, 240, 480, volt with (UL)

If specified, fuse(s) should be rated three times maximum current but less than branch circuit breaker (minimum of 5 amps for any fuse). Luminaires supplied with fuse holder(s) will accept a fuse such as Bussman KTK type. Factory installed fuse holder includes one fuse for 120V, 277V or two fuses for 208V, 240V, 480V.

G = TOP TRUNNION

Allows mounting with a trunnion above the luminaire, rather than below.

J = LINE SURGE PROTECTOR, EXPULSION TYPE

An expulsion device protects against transient surges caused by lightning or distribution system switching. See Technical Section.

K = KNUCKLE SLIPFITTER FOR 1.9-IN. TO 2.38-IN. (48 to 60mm) OD PIPE

With a knuckle slipfitter, a luminaire is mounted directly to the slipfitter, while with other types of slipfitters, the luminaire is trunnion mounted. The luminaire is aimed by moving the knuckle slipfitter, rather than by adjusting a trunnion. Wiring is internal, giving a neater appearance. This option is available for use on pipe with outside diameters (OD) of 1.9 to 2.38 inches (48 to 60mm).

L = LATCH FOR DOOR (When latch is not standard)

Latches are used instead of screws to allow no-tool access.

N = MEETS PROPOSED ANSI C 136.31 REQUIREMENTS

for Bridge and Underpass Vibration Ballast not mounted on Powerdoor modules.

P = Prewired with 6 feet (2 meters) of #14/3 cord

Luminaire is equipped with six feet (two meters) of prewired #14/3 cord.

Q = Non-time Delay Automatically Switched Quartz

This option is similar to option "B" except the quartz lamp extinguishes once the HID lamp strikes. During a cold start of the HID lamp the quartz lamp will not come on. This option does not draw any additional current in the circuit.

S = Knuckle Slipfitter for 1.9-IN. to 3.0-IN. (48 to 76mm) OD TENON

With a knuckle slipfitter, a luminaire is mounted directly to the slipfitter, while with other types of slipfitters, the luminaire is trunnion mounted. The luminaire is aimed by moving the knuckle slipfitter, rather than by adjusting a trunnion. Wiring is internal, giving a neater appearance. This option is available for use on pipe with outside diameters (OD) of 1.9 to 3.0 inches (48 to 96mm).

T = Terminal Board (when terminal board is not standard)

All internal wiring in the luminaire is completed. Internal and external electrical connectors are made on a screw terminal board.

U = UL LISTED

Equipment has passed tests by Underwriters' Laboratories and is (UL) 1598 Listed Suitable for Wet Locations. See individual product pages for limitations.

V = Knuckle Wall Mount

Luminaire can be mounted on a wall with a knuckle-type mounting which allows luminaire aiming

NEMA DECAL		
Color Coding/Light Source	Numeric Code/Wattage	
Yellow = High Pressure Sodium	3 = 35	20 = 200
Red = Metal Halide	5 = 50	25 = 250
	7 = 70	31 = 310
Light Blue = Mercury	10 = 100	40 = 400
	15 = 150	75 = 750
	17 = 175	X1 = 1000

ROADWAY DATA

EXPLANATION OF OTHER TERMS USED

MULTIVOLT

The multivolt choice under "Voltage" in Ordering Number Logic tables means that the customer can make the necessary connections to operate the luminaire at any one of four voltages—120, 208, 240, or 277.

PE CONTROL

A photoelectric (PE) control allows automatic dusk-to-dawn operation of luminaires. With most luminaires, the "PE" choice includes a receptacle only; the PE itself must be ordered separately. See product pages.

ROADWAY LIGHT DISTRIBUTION PATTERNS

There are three IES (Illuminating Engineering Society) classifications used to describe the light distribution or beam pattern of a roadway luminaire or one with roadway optics.

1. **S** (Short), **M** (Medium), or **L** (Long) indicates how far up and down a street a luminaire directs light.
2. **C** (Cutoff), **S** (Semi-cutoff), or **N** (Non-cutoff) tells how much light a luminaire directs above 80° and 90° vertical. A cutoff luminaire directs almost no light above 90°; a

semi-cutoff, some light; and a non-cutoff has no restrictions on how much light might be emitted in any direction.

3. Type designations I, II, III, IV are for asymmetrical (non-circular) light distribution patterns and indicate how far a luminaire directs light across the width of a street; the higher the number, the further light is directed across the street. An IES Type V designation signifies that light is emitted in a circular (symmetrical) pattern.

MOUNTING HEIGHT

Mounting height for roadway fixtures is the distance from the luminaire to the ground. For pole mounted luminaires, this may or may not correspond to pole height, depending on whether the luminaire is mounted directly on the pole, or on an upsweep arm or bracket that adds to mounting height.

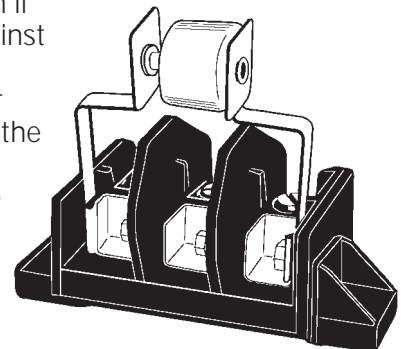
NEMA DECAL

GE Lighting Systems puts a NEMA identification decal on the outside of the ballast housing of each roadway luminaire. The color of the decal indicates the light source and the number indicates the lamp wattage.

LINE SURGE PROTECTOR, EXPULSION TYPE

High voltage surges caused by lightning or distribution system switching can severely damage unprotected luminaires on dedicated lighting circuits, even if there are lightning arresters placed periodically along the line. To guard against such line-to-line failures, GE Lighting Systems offers an expulsion-type line surge protector as a "J" option and as an accessory for some of our outdoor lighting products. This device is added to the terminal board of the fixture in the factory or in the field, before or after installation. It reliably and effectively protects against transient surges by providing a low impedance path for the surge through ionized air and works repetitively.

Generally, photoelectric (PE) controls provide sufficient protection against transient high voltage impulses, so fixtures with PE controls do not require expulsion protectors. GE recommends integral line surge protectors for fixtures without PE controls, particularly in lightning prone areas. See Area, Floodlight and Roadway accessory sections and product pages for availability.



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ROADWAY LIGHTING

Poles & Bracket Lighting

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Area Round Non-Tapered Aluminum – 8 to 30 feet (2 to 9 meters)	P-9
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* Please contact factory for all sports lighting designs



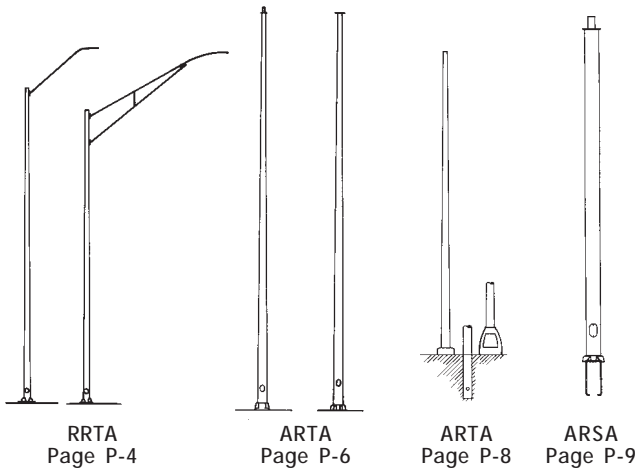
imagination at work

POLES/BRACKETS

P

LOOK FOR THIS TAB ON ANY PAGE TO RETURN TO THE POLES/BRACKETS INDEX

POLES AND BRACKETS INDEX



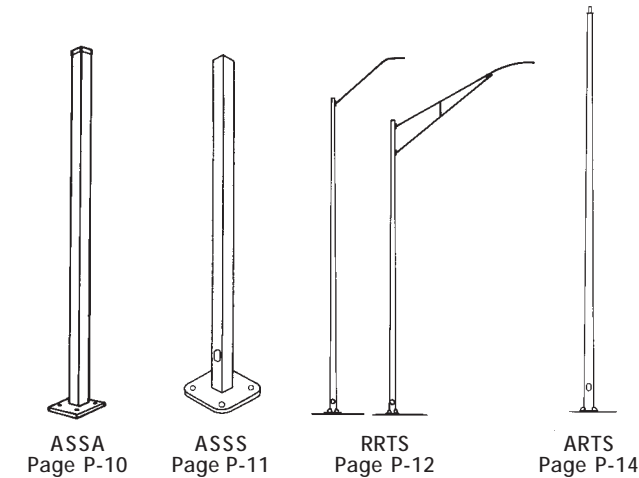
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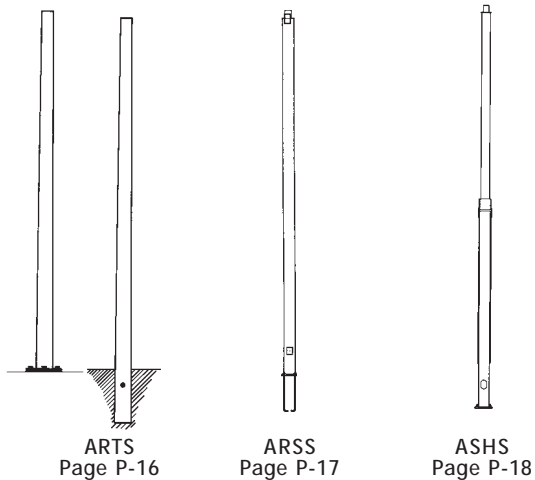


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C/F = Contact factory for all sports lighting designs.

POLE SELECTION GUIDELINES

GENERAL

A lighting pole must support the weight of the equipment you will mount on it and at the same time be able to withstand the effect of the maximum velocity winds to which it will be subjected. Therefore, the basis for selecting poles from this catalog is the weight and Effective Projected Area (EPA) data shown in Pole Selection Tables under the heading "Recommended Total Load." Before choosing a pole, determine the maximum total EPA and the total weight of all luminaires, brackets, signs, decorations, and other equipment that you plan to mount on it. EPA and weight data are given on product and accessory pages.

EFFECTIVE PROJECTED AREA (EPA)

The formula to calculate the force of wind acting on an object is: actual projected area of the object X coefficient of drag X velocity pressure of the wind. Effective projected area or EPA is the product of the first two. For example, one luminaire has an actual projected area of 2.62 square feet and a drag coefficient of 0.57. Its EPA is thus $2.62 \times 0.57 = 1.5$ square feet. When mounting a luminaire, the centroid of the effective projected area (approximate center of the luminaire projected area) should be no higher than 18 inches (457mm) above the top of the luminaire mounting tenons.

MAXIMUM EXPECTED WIND VELOCITIES

Recommended Total Load figures given in Pole Selection Tables are based on specific wind conditions—i.e., certain MPH or miles per hour isotach. The map on the next page gives maximum expected wind velocities in the contiguous United States, based on a 50-year mean recurrence interval. Refer to the map to find the maximum expected wind condition for the area where you will be installing the lighting equipment.

Velocities recorded on the map are expected isotach values, not gust values. Poles are actually designed for maximum gust velocities considerably greater than the MPH given. Design gust velocities include a gust factor of 1.3 and appropriate height factors.

There are some locations where unusual local wind conditions exist. In these areas, wind speeds could be considerably higher than those in the surrounding areas. These may necessitate the use of a greater isotach value than is shown on the map.

STEP-BY-STEP PROCEDURE FOR SELECTING POLES

1. Choose the specific luminaire you plan to use and decide how many will be mounted per pole.
2. Pick an appropriate mounting method, such as:
 - a. A single decorative post top luminaire on a 10 to 20 foot (3 to 6 meter) pole having a 3-inch (76mm) OD top;
 - b. Single or multiple decorative luminaires on arms supplied with the luminaire;
 - c. One or more floodlights on 20 to 60 foot (6 to 18 meter) poles, either singly on a top tenon, or in groups on brackets;

- d. Roadway luminaires on arms attached to the side of a pole. Pick the correct length and number of arms per pole (one per luminaire).
3. From data on the selected luminaire page, find the weight and EPA of each luminaire. Multiply these numbers by the number of luminaires per pole to determine the total weight and EPA.
 4. Scan the pole pages to find a picture of the luminaire you plan to use. These are given at the top of the page under the heading "Applications." Choose an appropriate pole.
 5. If brackets are needed, study the pole and accessory pages. Read the weight and EPA for the appropriate bracket.
 6. Look up the weight and EPA for any other accessories.
 7. Add the weight and EPA of all equipment.
 8. Check the wind velocity map to find the MPH of the geographic location where the poles will be installed.
 9. Study the Ordering Number Logic so you'll be familiar with the way we've devised our ordering numbers. DO NOT use the logic for ordering: Actual Ordering Numbers are given in the Selection Tables.
 10. Refer to the Selection Table of the pole you've decided to use. Start at the top, because the most economical system will be the first in the tabulation that is appropriate for your application:
 - a. Find the desired nominal mounting height in the first column.
 - b. For roadway poles, pick the desired arm length and number of arms (next two columns).
 - c. In the Recommended Total Loads section, make sure the total weight of the lighting equipment does not exceed the maximum listed.
 - d. Under Effective Projected Area, find the MPH for the mounting location geographic zone. Read the EPA value in the appropriate column and check that the equipment you're using will not exceed this value.
 - e. Read the appropriate Ordering Number from the Selection Table.
 11. Refer to the Ordering Number Logic to see if there are any substitutions or options required. Follow the instructions for substitutions. If you wish to include one or more options, add the indicated letter(s) to the end of the listed Ordering Number.
 12. If brackets or other accessories are required, refer to appropriate pages and find the correct Ordering Numbers.

CAUTION: These design methods are guidelines only. GE takes no responsibility for system design and recommends you consult qualified professionals for verification of your pole, luminaire, accessory, base, and foundation selections.

WIND SPEED 50-YEAR MEAN RECURRENCE INTERVAL



(MPH values — — — 50 year mean recurrence)

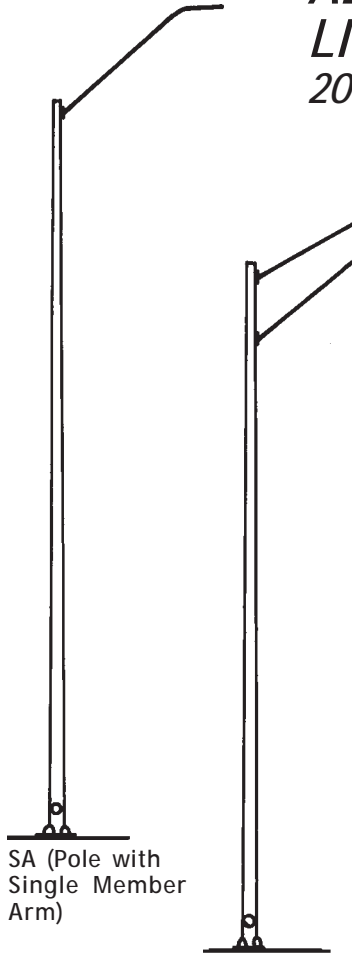
**MAXIMUM EXPECTED WIND VELOCITIES
IN THE UNITED STATES**



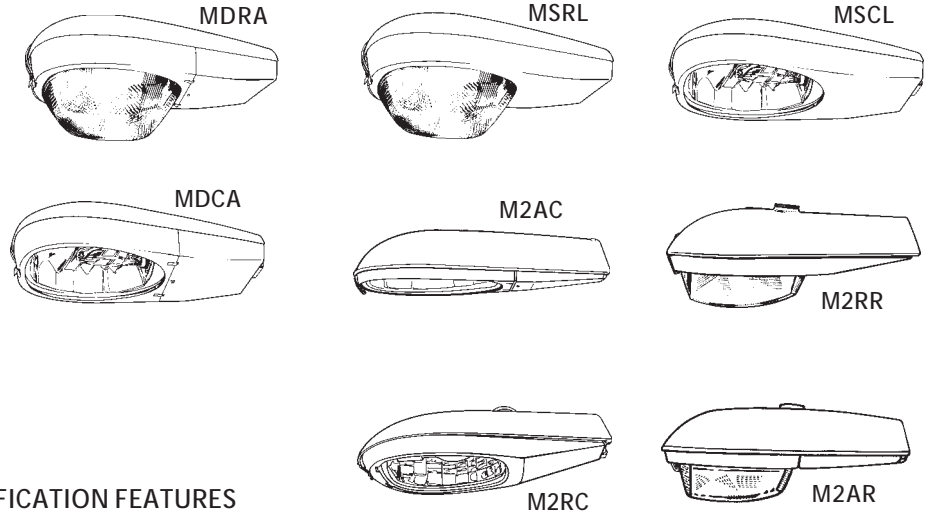
ALUMINUM ROUND TAPERED ROADWAY LIGHTING POLES

20 TO 40 FEET (6 TO 12 METERS)

POLES AND BRACKETS ALUMINUM ROUND TAPERED ROADWAY LIGHTING



SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Round tapered aluminum shaft
- Satin ground finish
- Shaft lengths from 20 to 40 feet
- Choice of one, two, three, or four arms
- Single member or truss arm(s) included

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

R	R	T	A	20	SA	4S	6.0	1	B	E
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	ARM LENGTH (FT)/ NUMBER	SHAFT DIMENSIONS BOTTOM SHAFT (IN.) TOP OD (IN.)		WALL THICKNESS (IN.)	OPTIONS
X	X	X	X	XX	XX	XXX	XXXX	X	X	X
R = Roadway	R = Round	T = Tapered	A = Aluminum	20 = 20 25 = 25 30 = 30 35 = 35 40 = 40	SA = Single Member Arm TA = Truss Arm NOTE: Arms are included with poles; two arms at 180°, three at 120°, and four at 90°	4S = One 4' arm 6S = One 6' arm 8S = One 8' arm 10S = One 10' arm 12S = One 12' arm 15S = One 15' arm 4D = Two 4' arms 6D = Two 6' arms 8D = Two 8' arms 10D = Two 10' arms 12D = Two 12' arms 15D = Two 15' arms 6T = Three 6' arms 6Q = Four 6' arms	6.0 = 6.0 7.0 = 7.0 8.0 = 8.0 10.0 = 10.0	1 = 4.5 2 = 6.0	B = 0.188 C = 0.219 D = 0.250 E = 0.312 F = 0.156	E = Electrical Festoon Box NOTE: If this option is required, add E to ordering number listed in Pole Selection Table.

REFERENCES

- See Page P-20 for Option Information
- See Page P-21 for Pole Base Data
- See Page P-2 for Pole Selection Guidelines

ALUMINUM ROUND TAPERED ROADWAY LIGHTING POLES 20 TO 40 FEET (6 TO 12 METERS)

POLE SELECTION TABLE

Shipped with pole: anchor bolts, anchor bolt covers, handhole cover, shaft cap, hardware, and anchor bolt circle template.

Nominal Mounting Height (ft)	Arm Length (Ft)	Number of Arms	Max Recommended Total Load				Ordering Number	Shaft Dimensions		Approximate Weight (lbs)	Pole Base Data Item Number
			EA* Weight (lbs)	Effective Projected Area (sq ft)				Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X in.)			
				80 MPH	90 MPH	100 MPH					
POLES WITH SINGLE MEMBER ARM (FIG. 1)											
20	4	1	75	1.5 EA	1.5 EA	1.5 EA	RRTA20SA4S6.01F	6.0X4.5X18-0X0.156	75	43	
20	6	1	71	1.5 EA	1.5 EA	1.5 EA	20SA6S6.01F	6.0X4.5X18-0X0.156	80	43	
25	4	1	75	1.5 EA	1.5 EA	1.5 EA	25SA4S6.01F	6.0X4.5X23-0X0.156	85	43	
25	6	1	71	1.5 EA	1.5 EA	1.5 EA	25SA6S6.01B	6.0X4.5X23-0X0.188	90	43	
25	8	1	53	1.5 EA	1.2 EA	0.7 EA	25SA8S6.01B	6.0X4.5X23-0X0.188	95	43	
30	4	1	75	1.5 EA	1.5 EA	1.5 EA	30SA4S7.01F	7.0X4.5X28-0X0.156	137	44	
30	6	1	71	1.5 EA	1.5 EA	1.0 EA	30SA6S7.01F	7.0X4.5X28-0X0.156	140	44	
30	8	1	53	1.5 EA	1.2 EA	0.7 EA	30SA8S7.01B	7.0X4.5X28-0X0.188	143	44	
30	8	1	60	1.5 EA	1.5 EA	1.5 EA	30SA8S8.01F	8.0X4.5X28-0X0.156	150	44	
35	6	1	71	1.5 EA	1.5 EA	1.5 EA	35SA6S8.01B	8.0X4.5X33-0X0.188	145	45	
35	8	1	53	1.5 EA	1.2 EA	0.7 EA	35SA8S8.01B	8.0X4.5X33-0X0.188	150	45	
35	8	1	60	1.5 EA	1.5 EA	1.5 EA	35SA8S8.01C	8.0X4.5X33-0X0.219	150	45	
40	6	1	68	1.5 EA	1.5 EA	0.7 EA	40SA6S8.01B	8.0X4.5X38-0X0.188	205	45	
40	8	1	53	1.5 EA	1.2 EA	- EA	40SA8S8.01B	8.0X4.5X38-0X0.188	274	45	
40	8	1	68	1.5 EA	1.5 EA	1.2 EA	40SA8S8.01C	8.0X4.5X38-0X0.219	225	45	
20	4	2	75	1.5 EA	1.5 EA	1.5 EA	RRTA20SA4D6.01B	6.0X4.5X18-0X0.188	85	43	
20	6	2	71	1.5 EA	1.2 EA	0.7 EA	20SA6D6.01B	6.0X4.5X18-0X0.188	105	43	
25	4	2	75	1.5 EA	1.2 EA	0.7 EA	25SA4D6.01B	6.0X4.5X23-0X0.188	130	43	
25	6	2	71	1.5 EA	1.2 EA	0.7 EA	25SA6D7.01B	7.0X4.5X23-0X0.188	125	44	
25	8	2	53	1.5 EA	1.2 EA	- EA	25SA8D7.01B	7.0X4.5X23-0X0.188	130	44	
30	4	2	75	1.5 EA	1.5 EA	0.7 EA	30SA4D7.01B	7.0X4.5X28-0X0.188	147	44	
30	6	2	71	1.5 EA	1.5 EA	0.7 EA	30SA6D8.01B	8.0X4.5X28-0X0.188	155	45	
30	8	2	53	1.5 EA	1.2 EA	- EA	30SA8D8.01B	8.0X4.5X28-0X0.188	160	45	
30	8	2	75	1.5 EA	1.5 EA	0.7 EA	30SA8D8.01C	8.0X4.5X28-0X0.219	180	45	
35	6	2	71	1.5 EA	1.5 EA	0.7 EA	35SA6D8.01C	8.0X4.5X33-0X0.219	205	45	
35	8	2	53	1.5 EA	0.7 EA	- EA	35SA8D8.01C	8.0X4.5X33-0X0.219	220	45	
35	8	2	75	1.5 EA	1.2 EA	- EA	35SA8D8.01D	8.0X4.5X33-0X0.250	255	45	
40	6	2	71	1.5 EA	1.5 EA	- EA	40SA6D10.02B	10.0X6.0X38-0X0.188	235	46	
40	8	2	53	1.5 EA	1.2 EA	- EA	40SA8D10.02B	10.0X6.0X38-0X0.188	325	46	
40	8	2	75	1.5 EA	1.5 EA	0.7 EA	40SA8D10.02C	10.0X6.0X38-0X0.219	275	46	
25	6	3	71	1.5 EA	1.5 EA	0.7* EA	RRTA25SA6T7.01B	7.0X4.5X23-0X0.188	146	44	
30	6	3	71	1.5 EA	1.5 EA	0.7* EA	30SA6T8.01B	8.0X4.5X28-0X0.188	176	45	
35	6	3	71	1.5 EA	1.5 EA	1.2** EA	35SA6T8.01D	8.0X4.5X33-0X0.250	278	45	
40	6	3	71	1.5 EA	1.5 EA	- EA	40SA6T10.02B	10.0X6.0X38-0X0.188	320	46	
25	6	4	71	1.2** EA	1.2** EA	0.7* EA	RRTA25SA6Q7.01B	7.0X4.5X23-0X0.188	155	44	
30	6	4	71	1.5 EA	1.5 EA	0.7* EA	30SA6Q8.01B	8.0X4.5X28-0X0.188	185	45	
35	6	4	71	1.5 EA	1.5 EA	0.7* EA	35SA6Q8.01D	8.0X4.5X33-0X0.250	205	45	
40	6	4	71	1.5 EA	1.5 EA	- EA	40SA6Q10.02B	10.0X6.0X38-0X0.188	332	46	
POLES WITH TRUSS ARM (FIG. 2)											
25	10	1	68	1.5 EA	1.5 EA	1.2 EA	RRTA25TA10S8.01F	8.0X4.5X22-2X0.156	140	45	
25	12	1	62	1.5 EA	1.5 EA	1.2 EA	25TA12S8.01B	8.0X4.5X22-2X0.188	150	45	
30	10	1	60	1.5 EA	1.2 EA	0.7 EA	30TA10S8.01F	8.0X4.5X27-2X0.156	165	45	
30	12	1	47	1.5 EA	1.5 EA	0.7 EA	30TA12S8.02B	8.0X4.5X27-2X0.188	170	45	
30	12	1	75	1.5 EA	1.5 EA	0.7 EA	30TA12S8.02B	8.0X6.0X27-2X0.188	180	45	
30	15	1	75	1.5 EA	1.5 EA	- EA	30TA15S8.02B	8.0X6.0X27-2X0.188	190	45	
35	10	1	68	1.2 EA	0.7 EA	- EA	35TA10S8.02B	8.0X6.0X32-2X0.188	205	45	
35	12	1	53	1.5 EA	1.5 EA	- EA	35TA12S8.01B	8.0X4.5X32-2X0.188	185	45	
35	12	1	75	1.5 EA	1.2 EA	- EA	35TA12S8.02B	8.0X6.0X32-2X0.188	205	45	
35	15	1	75	1.5 EA	1.2 EA	- EA	35TA15S8.02C	8.0X6.0X32-2X0.219	240	45	
35	15	1	75	1.5 EA	1.5 EA	- EA	35TA15S8.02D	8.0X6.0X32-2X0.250	265	45	
40	10	1	75	1.5 EA	1.5 EA	- EA	40TA10S8.02D	8.0X6.0X37-2X0.250	280	45	
40	12	1	53	1.5 EA	1.5 EA	- EA	40TA12S8.01D	8.0X4.5X37-2X0.250	260	45	
40	12	1	75	1.5 EA	1.5 EA	- EA	40TA12S8.02D	8.0X6.0X37-2X0.250	295	45	
40	15	1	75	1.5 EA	1.5 EA	- EA	40TA15S10.02D	10.0X6.0X37-2X0.250	275	46	
25	10	2	75	1.5 EA	1.5 EA	1.2 EA	RRTA25TA10D8.01C	8.0X4.5X22-2X0.219	190	45	
25	12	2	75	1.5 EA	1.5 EA	- EA	25TA12D8.01C	8.0X4.5X22-2X0.219	205	45	
30	10	2	75	1.5 EA	1.2 EA	0.7 EA	30TA10D8.01D	8.0X4.5X27-2X0.250	250	45	
30	12	2	75	1.5 EA	1.2 EA	- EA	30TA12D8.01D	8.0X4.5X27-2X0.250	220	45	
30	12	2	75	1.5 EA	1.5 EA	1.5 EA	30TA12D8.02D+	8.0X4.5X27-2X0.250+	240	45	
30	15	2	75	1.5 EA	1.5 EA	- EA	30TA15D8.01D+	8.0X4.5X27-2X0.250+	260	45	
35	10	2	75	1.5 EA	1.5 EA	- EA	35TA10D10.02B	10.0X6.0X32-2X0.188	270	46	
35	12	2	75	1.5 EA	1.5 EA	- EA	35TA12D8.01D+	8.0X4.5X32-2X0.250+	255	45	
35	15	2	75	1.5 EA	1.5 EA	- EA	35TA15S10.02D	10.0X6.0X32-2X0.250	330	46	
40	10	2	75	1.5 EA	1.5 EA	- EA	40TA10S10.02D	10.0X6.0X37-2X0.250	370	46	
40	12	2	75	1.5 EA	1.2 EA	- EA	40TA12S10.02D	10.0X6.0X37-2X0.250	360	46	
40	15	2	75	1.5 EA	- EA	- EA	40TA15S10.02D	10.0X6.0X37-2X0.250	460	46	

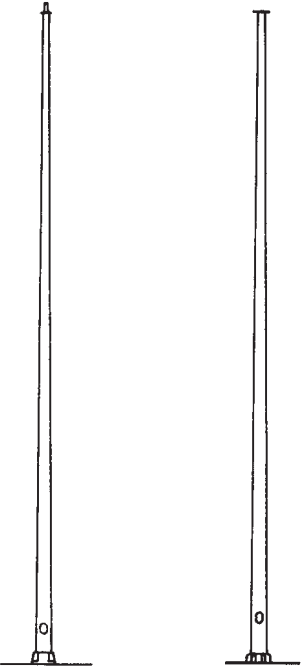
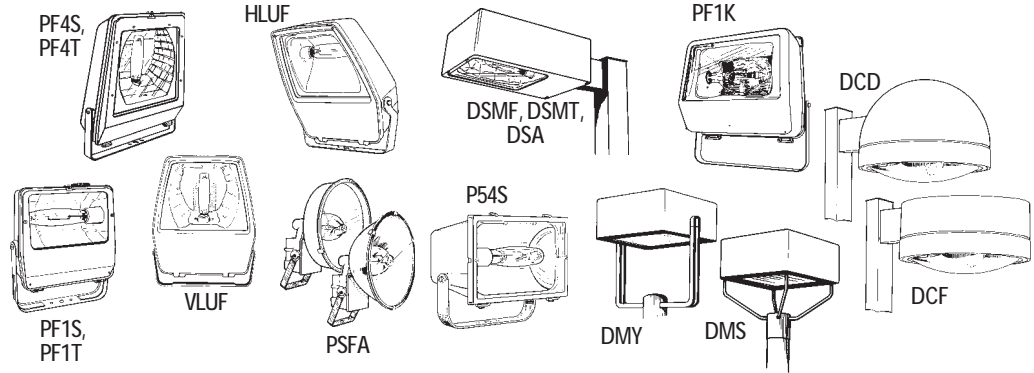
+ These poles have a three foot (1 meter) internal reinforcing sleeve at the base.
 * Use for M-250R2 and M250R2 Cutoff luminaires ** Use for M-400 and M-400A or lower Effective Projected Area luminaires * EA = Each Arm



ALUMINUM ROUND TAPERED AREA LIGHTING POLES

20 TO 45 FEET (6 TO 14 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Round tapered seamless aluminum shaft
- Satin ground finish
- Shaft lengths from 20 to 45 feet
- Single or multiple luminaire mounting
- Two top tenon sizes
- Plate mount for multiple-tenon bracket
- Black and dark bronze finishes available

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	R	T	A	20	2T	6.0	B	SN	E
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS BOTTOM SHAFT OD (IN.) WALL THICKNESS (IN.)		FINISH	OPTIONS
X	X	X	X	XX	XX	XXXX	X	XX	X
A = Area	R = Round	T = Tapered	A = Aluminum	20 = 20 25 = 25 30 = 30 35 = 35 39 = 39 45 = 45 NOTE: 45 foot poles have two-piece shafts with flush joint (field drilled and bolted)	2T = 2-3/8 in. OD top tenon (See illustration above) 4T = 4 in. OD top tenon (See illustration above) DB = Drill holes for mounting two Decashield® luminaires at 90°** DO = Drill holes for two Decashield luminaires at 180°** PB = Plate and bracket mounting for multiple luminaires (See illustration above) Order bracket separately OD = Drill holes for four Decashield* SD = Drill holes for single Decashield* luminaire TB = Drill holes for three Decashield luminaires at 90°** TD = Drill holes for three Decashield luminaires at 120°** *Requires pole vibration dampers NOTE: Order round pole mounting adapter separately. NOTE: These mountings can be used with any of the poles listed; substitute the correct mounting designation for XX in ordering number listed in Selection Table. NOTE: Drilling templates are the same for Decashield®, Dimension®, and Decasphere™ luminaires.	6.0 = 6.0 7.0 = 7.0 8.0 = 8.0 10.0 = 10.0	B = 0.188 C = 0.219 D = 0.250	BL = Black DB = Dark bronze SN = Satin ground (Standard) NOTE: if black or dark bronze finish is required, substitute BL or DB for SN in ordering number listed in Selection Table	E = Electrical Festoon Box NOTE: If this option is required, add E to ordering number listed in Pole Selection Table.

POLES AND BRACKETS ALUMINUM ROUND TAPERED AREA LIGHTING

P

ALUMINUM ROUND TAPERED AREA LIGHTING POLES 20 TO 45 FEET (6 TO 14 METERS)

POLE SELECTION TABLE

Shipped with pole: anchor bolts, anchor bolt covers, handhole cover, hardware, and anchor bolt circle template.
Shaft cap included with poles drilled for Decashield® luminaire mounting.

Nominal Mounting Height (ft)	Max Recommended Total Load				Ordering Number	Shaft Dimensions Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X in.)	Approximate Weight (lbs)	Pole Base Data Item Number
	Weight (lbs)	Effective Projected Area (sq ft)						
		80 MPH	90 MPH	100 MPH				
20	230	7.9	6.3	5.1	ARTA20XX6.0BSN	6.0 X 4.0 X 19-8 X 0.188	80	43
20	280	11.7	9.2	7.4	20XX7.0BSN	7.0 X 4.0 X 19-8 X 0.188	90	44
25	165	5.6	4.4	3.4	25XX6.0BSN	6.0 X 4.0 X 24-8 X 0.188	100	43
25	225	8.6	6.7	5.3	25XX7.0BSN	7.0 X 4.0 X 24-8 X 0.188	105	44
25	285	12.2	9.4	7.5	25XX8.0BSN	8.0 X 4.0 X 24-8 X 0.188	125	45
25	330	14.4	11.2	8.9	25XX8.0CSN	8.0 X 4.0 X 24-8 X 0.219	140	45
25	370	16.6	12.9	10.3	25XX8.0DSN	8.0 X 4.0 X 24-8 X 0.250	145	45
30	165	6.4	4.9	3.7	30XX7.0BSN	7.0 X 4.0 X 29-8 X 0.188	130	44
30	190	9.3	7.2	5.6	30XX8.0BSN	8.0 X 4.0 X 29-8 X 0.188	135	45
30	220	11.2	8.7	6.8	30XX8.0CSN	8.0 X 4.0 X 29-8 X 0.219	155	45
30	250	13.0	10.1	8.0	30XX8.0DSN	8.0 X 4.0 X 29-8 X 0.250	170	45
30	425	16.4	12.3	9.2	30XX10.0BSN	10.0 X 6.0 X 29-8 X 0.188	185	46
30	490	19.4	14.7	11.1	30XX10.0CSN	10.0 X 6.0 X 29-8 X 0.219	210	46
30	560	22.4	17.0	13.0	30XX10.0DSN	10.0 X 6.0 X 29-8 X 0.250	235	46
30	680	28.0	21.5	16.6	30XX10.0ESN	10.0 X 6.0 X 29-8 X 0.312	300	46
35	160	6.2	4.7	3.6	35XX8.0BSN	8.0 X 4.0 X 34-8 X 0.188	160	45
35	180	7.6	5.9	4.5	35XX8.0CSN	8.0 X 4.0 X 34-8 X 0.219	185	45
35	205	9.1	7.0	5.6	35XX8.0DSN	8.0 X 4.0 X 34-8 X 0.250	215	45
35	258	11.7	8.7	6.3	35XX10.0BSN	10.0 X 6.0 X 34-8 X 0.188	220	46
35	345	13.8	10.4	7.7	35XX10.0CSN	10.0 X 6.0 X 34-8 X 0.219	240	46
35	390	16.1	12.2	9.2	35XX10.0DSN	10.0 X 6.0 X 34-8 X 0.250	285	46
39	170	7.1	5.4	4.0	39XX8.0DSN	8.0 X 4.0 X 38-9 X 0.250	240	45
39	250	9.3	6.6	4.5	39XX10.0BSN	10.0 X 6.0 X 38-9 X 0.188	250	46
39	285	11.2	8.1	5.7	39XX10.0CSN	10.0 X 6.0 X 38-9 X 0.219	285	46
39	325	13.2	9.7	7.0	39XX10.0DSN	10.0 X 6.0 X 38-9 X 0.250	320	46
45	265	9.1	6.3	3.7	45XX10.0CSN	10.0 X 6.0 X 44-8 X 0.219	315	46
45	300	10.8	7.7	4.8	45XX10.0DSN	10.0 X 6.0 X 44-8 X 0.250	415	46

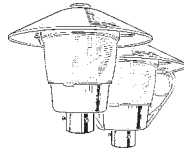
REFERENCES

- See Pole Accessories for Bracket Ordering Information
- See Area Accessories for Round Pole Mounting Adapter
- See Page P-20 for Option Information
- See Page P-21 for Pole Base Data
- See Page P-2 for Pole Selection Guidelines

ALUMINUM ROUND TAPERED AREA LIGHTING POLES

10 TO 20 FEET (3 TO 6 METERS)

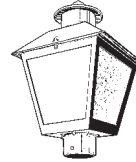
SUGGESTED LUMINAIRE APPLICATIONS



P16M, P17M



SEML, SEMT



T10C

SPECIFICATION FEATURES

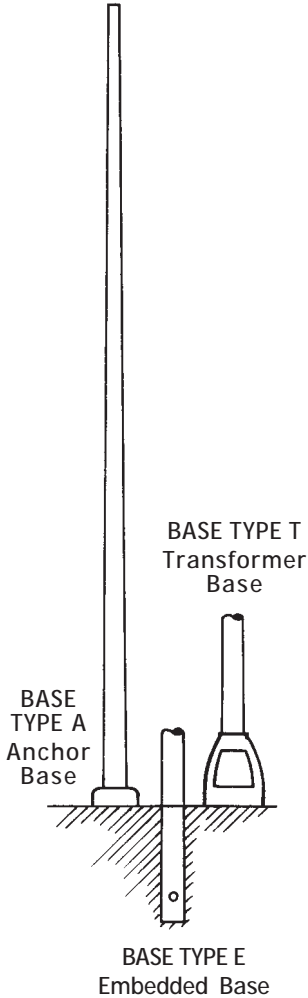
- Round tapered aluminum shaft
- Satin ground finish
- Shaft lengths from 10 to 20 feet
- Three inch OD top for mounting single luminaire
- Black and dark bronze finishes available
- Choice of anchor, transformer, or embedded base
- Paint finish is powder coat

POLE SELECTION TABLE

Shipped with pole: anchor bolts, anchor bolt covers, hardware, and anchor bolt circle template. Transformer base choice includes door cover and all other parts required.

Nominal Mounting Height (ft)	Maximum Recommended Total Load				Ordering Number	Shaft Dimensions		Approximate Weight (lbs)	Pole Base Data Item Number	
	Weight (lbs)	Effective Projected Area (sq ft)				Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X in.)	Anchor Base		Transformer Base	
		80 MPH	90 MPH	100 MPH						
10	50	4.1	3.2	2.4	ARTA103S4.0ASN	4.0 X 3.0 X 10-0 X 0.125	20	40	42	
12	50	3.0	2.2	1.6	123S4.0ASN	4.0 X 3.0 X 12-0 X 0.125	23	40	42	
12	95	6.4	5.0	4.0	123S5.0ASN	5.0 X 3.0 X 12-0 X 0.125	25	41	42	
14	50	2.0	1.4	0.9	143S4.0ASN	4.0 X 3.0 X 14-0 X 0.125	25	40	42	
14	95	5.2	3.9	3.2	143S5.0ASN	5.0 X 3.0 X 14-0 X 0.125	29	41	42	
14	110	7.9	6.2	4.9	143S5.0BSN	5.0 X 3.0 X 14-0 X 0.188	41	41	42	
16	50	1.1	0.8	0.5	163S4.0ASN	4.0 X 3.0 X 16-0 X 0.125	29	40	42	
16	95	4.1	3.2	2.5	163S5.0ASN	5.0 X 3.0 X 16-0 X 0.125	33	41	42	
16	110	6.5	5.1	4.0	163S5.0BSN	5.0 X 3.0 X 16-0 X 0.188	46	41	42	
18	60	3.4	2.6	2.0	183S5.0ASN	5.0 X 3.0 X 18-0 X 0.125	36	41	42	
18	116	5.5	4.2	3.3	183S5.0BSN	5.0 X 3.0 X 18-0 X 0.188	52	41	42	
20	50	2.5	1.9	1.5	203S5.0ASN	5.0 X 3.0 X 20-0 X 0.125	40	41	42	
20	95	4.5	3.4	2.7	203S5.0BSN	5.0 X 3.0 X 20-0 X 0.188	57	41	42	

POLES AND BRACKETS ALUMINUM ROUND TAPERED AREA LIGHTING



ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	R	T	A	10	3S	4.0	A	SN	A
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS BOTTOM SHAFT OD (IN.)	WALL THICKNESS (IN.)	FINISH	BASE TYPE
X	X	X	X	XX	XX	XXXX	X	XX	X
A = Area	R = Round	T = Tapered	A = Aluminum	10 = 10 12 = 12 14 = 14 16 = 16 18 = 18 20 = 20	3S = 3-in. OD top for single luminaire	4.0 = 4.0 5.0 = 5.0	A = 0.125 B = 0.188	BL = Black DB = Dark bronze SN = Satin ground (Standard) NOTE: if black or dark bronze finish is required, substitute BL or DB for SN in ordering number listed in Selection Table	A = Anchor (See illustration above) E = Embedded (See illustration above) T = Transformer (See illustration above) NOTE: Substitute A, E, or T for X in ordering number listed in Pole Selection Table.

REFERENCES

See Page P-21 for Pole Base Data
See Page P-2 for Pole Selection Guidelines

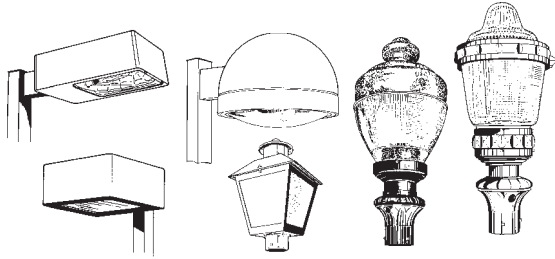
GE Lighting Systems, Inc.

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ALUMINUM NON-TAPERED AREA LIGHTING POLES

8 TO 30 FEET (2 TO 9 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Round straight non-tapered aluminum shaft
- Dark bronze standard
- Shaft lengths from 8 to 30 feet
- Single or multiple luminaire mounting
- Top tenon choice
- Shipped with pole: anchor bolts, handhole opening with cover, electrical grounding kit and spirally wrapped packing with rip cord removal system



POLES AND BRACKETS ALUMINUM ROUND TAPERED AREA LIGHTING

POLE SELECTION TABLE

Ordering Number	Nominal Mounting Height (ft)	Wall Size (in)	Thickness (in)	EPA (sq ft) MPHI			Bolt Circle (in)	Bolt Size (in)	A. B. Projection (in)	Base Square Size (in)	Approximate Ship Weight (lbs)
				80	90	100					
ARSA-08XX4ADB	8	4	0.125	9.0	7.0	5.6	7.0	3/4X17	2.50	8.5	25
ARSA-10XX4ADB	10	4	0.125	7.0	5.3	4.1	7.0	3/4X17	2.50	8.5	27
ARSA-10XX5ADB	10	5	0.125	11.0	9.3	7.5	7.5	3/4X17	2.50	9.0	31
ARSA-12XX4ADB	12	4	0.125	4.3	3.2	2.4	7.0	3/4X17	2.50	8.5	30
ARSA-12XX5ADB	12	5	0.125	7.6	5.9	4.8	7.5	3/4X17	2.50	9.0	36
ARSA-12XX5FDB	12	5	0.156	9.7	7.6	6.1	7.5	3/4X17	2.50	9.0	42
ARSA-12XX5BDB	12	5	0.188	11.8	9.4	7.5	7.5	3/4X17	2.50	9.0	50
ARSA-14XX4ADB	14	4	0.125	3.4	2.4	1.7	7.0	3/4X17	2.50	8.5	33
ARSA-14XX5ADB	14	5	0.125	6.0	4.7	3.8	7.5	3/4X17	2.50	9.0	40
ARSA-14XX5FDB	14	5	0.156	7.9	6.2	5.0	7.5	3/4X17	2.50	9.0	46
ARSA-14XX5BDB	14	5	0.188	9.8	7.6	6.2	7.5	3/4X17	2.50	9.0	54
ARSA-16XX4ADB	16	4	0.125	2.4	1.5	0.9	7.0	3/4X17	2.50	8.5	36
ARSA-16XX5ADB	16	5	0.125	4.6	3.6	2.9	7.5	3/4X17	2.50	9.0	44
ARSA-16XX5FDB	16	5	0.156	6.2	4.9	3.9	7.5	3/4X17	2.50	9.0	50
ARSA-16XX5BDB	16	5	0.188	7.9	6.2	5.0	7.5	3/4X17	2.50	9.0	58
ARSA-16XX6FDB	16	6	0.156	10.5	8.2	6.6	9.5	3/4X17	2.50	10.25	63
ARSA-16XX6BDB	16	6	0.188	13.0	10.2	8.2	9.5	3/4X17	2.50	10.25	74
ARSA-18XX5ADB	18	5	0.125	3.5	2.6	2.0	7.5	3/4X17	2.50	9.0	48
ARSA-18XX5FDB	18	5	0.156	4.9	3.8	3.0	7.5	3/4X17	2.50	9.0	54
ARSA-18XX5BDB	18	5	0.188	6.3	4.9	4.0	7.5	3/4X17	2.50	9.0	62
ARSA-18XX6BDB	18	6	0.188	10.9	8.5	6.9	9.5	3/4X17	2.50	10.25	83
ARSA-20XX5ADB	20	5	0.125	2.5	1.8	1.3	7.5	3/4X17	2.50	9.0	52
ARSA-20XX5FDB	20	5	0.156	3.7	2.8	2.2	7.5	3/4X17	2.50	9.0	58
ARSA-20XX5BDB	20	5	0.188	5.0	3.8	3.0	7.5	3/4X17	2.50	9.0	66
ARSA-20XX6FDB	20	6	0.156	7.2	5.6	4.5	9.5	3/4X17	2.50	10.25	77
ARSA-20XX6BDB	20	6	0.188	9.1	7.2	5.7	9.5	3/4X17	2.50	10.25	91
ARSA-25XX6FDB	25	6	0.156	4.2	3.2	2.4	9.5	3/4X17	2.50	10.25	94
ARSA-25XX6BDB	25	6	0.188	5.8	4.4	3.4	9.5	3/4X17	2.50	10.25	111
ARSA-25XX6BDB	30	6	0.188	2.9	2.0	1.3	9.5	3/4X17	2.50	10.25	131

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	R	S	A	20	SD	5	A	DB
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT WIDTH (IN. X IN.)	DIMENSIONS WALL THICKNESS (IN.)	FINISH
X	X	X	X	XX	XX	X	X	XX
A = Area	R = Round	S = Straight	A = Aluminum	08 = 8 10 = 10 12 = 12 14 = 14 16 = 16 18 = 18 20 = 20 25 = 25 30 = 30	DB = Drill holes for mounting two Decashield® luminaires at 90°* DO = Drill holes for two Decashield luminaires at 180°* DQ = Drill holes for four Decashield luminaires* SD = Drill holes for single Decashield luminaire* TB = Drill holes for three Decashield luminaires at 90°* TD = Drill holes for three Decashield luminaires at 120°* 2T = 2-3/8-in. OD top tenon 3T = 3-in. OD top tenon NOTE: *Drill for SPMM luminaire as indicated NOTE: Substitute required mounting designation for XX in ordering number listed in Selection Table. NOTE: Order round pole mounting adapter separately. NOTE: Drilling templates are the same for Decashield®, Dimension®, and Decasphere™ luminaires.	4 = 4X4 5 = 5X5 6 = 6X6	A = 0.125 B = 0.188 F = 0.156	BL = Black DB = Dark bronze powder coat (Standard) MB = Medium Bronze SN = Satin finish WH = White NOTE: If other than dark bronze finish is required, substitute designation for DB in Ordering Number

REFERENCES

See Page P-2 for Pole Selection Guidelines

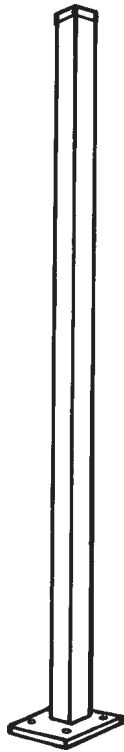
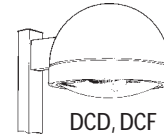
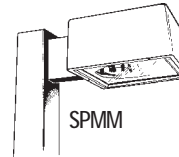
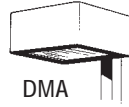
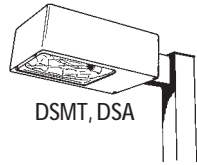
GE Lighting Systems, Inc.

www.gelighting.com

ALUMINUM SQUARE STRAIGHT AREA LIGHTING POLES

10 TO 30 FEET (3 TO 9 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Square straight aluminum shaft
- Dark bronze powder coated finish standard
- Shaft lengths from 10 to 30 feet
- Pole drilled for decorative mounting arm(s)
- Single or multiple luminaire mounting
- Top tenon choice
- Shipped with pole: anchor bolts, handhole opening with cover, electrical grounding kit and spirally wrapped packing with rip cord removal system

POLE SELECTION TABLE

Ordering Number	Nominal Mounting Height (ft)	Wall Size (in.)	Thickness (in.)	EPA (sq ft)/MPHl			Bolt Circle (in.)	Bolt Size (in.)	A. B. Projection (in.)	Base Plate Size (in.)	Approximate Ship Weight (lbs)
				80	90	100					
ASSA10XX4ADB	10	4	0.125	10.5	8.2	6.4	8-10	3/4x17	250	10.75	36
12XX4ADB	12	4	0.125	8.2	6.2	4.8	8-10	3/4x17	250	10.75	41
14XX4ADB	14	4	0.125	6.3	4.7	3.3	8-10	3/4x17	250	10.75	46
15XX4BDB	15	4	0.188	9.3	7.1	6.2	8-10	3/4x17	250	10.75	67
18XX4BDB	18	4	0.188	5.8	4.2	2.9	8-10	3/4x17	250	10.75	78
18XX4DDDB	18	4	0.250	8.6	5.8	4.1	8-10	3/4x17	250	10.75	96
20XX4BDB	20	4	0.188	4.8	3.1	-	8-10	3/4x17	250	10.75	85
20XX4DDDB	20	4	0.250	6.9	4.8	3.3	8-10	3/4x17	250	10.75	105
20XX5BDB	20	5	0.188	8.4	6.0	4.2	10-12	1X36	250	12	105
20XX5DDDB	20	5	0.250	12.8	9.1	6.8	10-12	1X36	250	12	132
25XX5BDB	25	5	0.188	4.7	2.7	-	10-12	1X36	250	12	124
25XX5DDDB	25	5	0.250	7.8	5.2	3.3	10-12	1X36	250	12	160
25XX6DDDB	25	6	0.250	13.1	9.3	6.4	12-14	1X36	250	13.25	199
30XX6DDDB	30	6	0.250	7.8	4.2	2.4	12-14	1X36	250	13.25	235

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	S	S	A	20	SD	5	A	DB
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT WIDTH (IN. X IN.)	DIMENSIONS WALL THICKNESS (IN.)	FINISH
X	X	X	X	XX	XX	X	X	XX
A = Area	S = Square	S = Straight	A = Aluminum	10 = 10 12 = 12 14 = 14 15 = 15 18 = 18 20 = 20 25 = 25 30 = 30	DB = Drill holes for mounting two Decashield® luminaires at 90°* DO = Drill holes for two Decashield luminaires at 180°* DQ = Drill holes for four Decashield luminaires* SD = Drill holes for single Decashield luminaire* TB = Drill holes for three Decashield luminaires at 90°* TD = Drill holes for three Decashield luminaires at 120°* 2T = 2-3/8-in. OD top tenon 3T = 3-in. OD top tenon NOTE: *Drill for SPMM luminaire as indicated NOTE: Substitute required mounting designation for XX in ordering number listed in Selection Table. NOTE: Drilling templates are the same for Decashield®, Dimension®, and Decasphere™ luminaires.	4 = 4X4 5 = 5X5 6 = 6X6	A = 0.125 B = 0.188 D = 0.250	DB = Dark bronze SN = Satin anodized NOTE: If other than a standard finish is required, substitute SN for DB in ordering number listed in Selection Table.

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POLES AND BRACKETS ALUMINUM SQUARE STRAIGHT AREA LIGHTING

REFERENCES

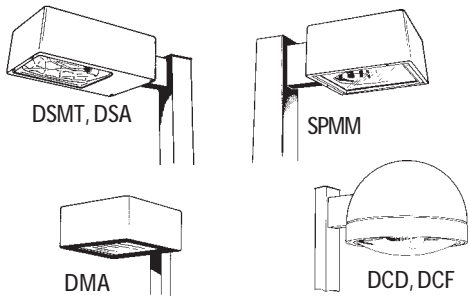
See Page P-2 for Pole Selection Guidelines

GE Lighting Systems, Inc.

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STEEL SQUARE STRAIGHT AREA LIGHTING POLES 10 TO 39 FEET (3 TO 12 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Square straight steel shaft
- Dark bronze powder coated finish standard
- Shaft lengths from 10 to 39 feet
- Pole drilled for decorative mounting arm(s) or for top tenon mounting
- Single or multiple luminaire mounting
- Base cover includes two-piece ABS Plastic Full Cover
- Anchor bolts, hardware, handhole cover, circle template, shaft cap or top tenon – all included

POLE SELECTION TABLE

Ordering Number	Nominal Mounting Height (ft)	Size (in.)	Wall Gauge	EPA(sqft)/MPHI			Bolt Circle (in.)	Bolt Size (in.)	Approximate Ship Weight (lbs)	Base Plate Size (in.)
				80	90	100				
ASSS10XX411DB	10	4	11	30.6	23.8	18.9	8.25	3/4X20	111	8.25X8.25X0.75
12XX411DB	12	4	11	24.4	18.8	14.8	8.25	3/4X20	123	8.25X8.25X0.75
14XX411DB	14	4	11	19.9	15.1	11.7	8.25	3/4X20	135	8.25X8.25X0.75
15XX411DB	15	4	11	15.9	11.8	8.9	8.25	3/4X20	130	8.25X8.25X0.75
16XX411DB	16	4	11	15.9	11.8	8.9	8.25	3/4X20	146	8.25X8.25X0.75
18XX411DB	18	4	11	12.6	9.2	6.7	8.25	3/4X20	158	8.25X8.25X0.75
ASSS20XX411DB	20	4	11	9.6	6.7	4.5	8.25	3/4X20	162	8.25X8.25X0.75
20XX47DB	20	4	7	15.9	12.5	10.1	8.25	3/4X20	244	8.25X8.25X0.75
20XX57DB	20	5	7	28.1	21.4	16.2	11.0	3/4X20	265	11.0X11.0X1.00
20XX511DB	20	5	11	17.7	12.7	9.4	11.0	3/4X20	185	11.0X11.0X1.00
ASSS25XX411DB	25	4	11	4.8	2.6	1.0	8.25	3/4X20	191	8.25X8.25X0.75
25XX47DB	25	4	7	10.8	7.7	5.4	8.25	3/4X20	273	8.25X8.25X0.88
25XX57DB	25	5	7	18.5	13.3	9.5	11.0	3/4X20	395	11.0X11.0X1.00
25XX511DB	25	5	11	9.8	6.3	3.7	11.0	3/4X20	241	11.0X11.0X1.00
ASSS30XX511DB	30	5	11	4.7	2.0	--	11.0	3/4X20	263	11.0X11.0X1.00
30XX57DB	30	5	7	10.7	6.7	3.9	11.0	3/4X20	480	11.0X11.0X1.00
30XX67DB	30	6	7	19.0	13.2	9.0	12.0	1X40	558	12.5X12.5X1.00
ASSS35XX57DB	35	5	7	5.9	2.5	--	11.0	3/4X20	490	11.0X11.0X1.00
35XX67DB	35	6	7	12.4	7.6	4.2	12.0	1X40	633	12.5X12.5X1.00
ASSS40XX67DB	39	6	7	7.2	3.0	--	12.0	1X40	693	12.5X12.5X1.00

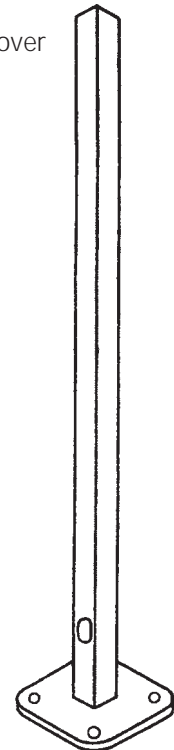


Figure 1

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	S	S	S	10	TT	4	11	DB
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT WIDTH (IN. X IN.)	DIMENSIONS THICKNESS (GAUGE)	FINISH
X	X	X	X	XX	XX	X	XX	XX
A = Area	S = Square	S = Straight	S = Steel	10 = 10 12 = 12 14 = 14 16 = 16 18 = 18 20 = 20 24 = 24 30 = 30 35 = 35 39 = 39	DB = Drill holes for mounting two luminaires at 90°* DO = Drill holes for two luminaires at 180°* DQ = Drill holes for four luminaires* SD = Drill holes for single luminaire* TB = Drill holes for three luminaires at 90°* TD = Drill holes for three luminaires at 120°* TT = 2-3/8-in. OD top tenon (Fig. 1) NOTE: *Drill for SPMM luminaire as indicated NOTE: Substitute required mounting designation for XX in ordering number listed in Selection Table. NOTE: Drilling templates are the same for Decashield®, Dimension®, and Decasphere™ luminaires.	4 = 4X4 5 = 5X5 6 = 6X6	7 = 7 11 = 11	DB = Dark bronze powder coated (Standard) BL = Black

POLES AND BRACKETS STEEL SQUARE STRAIGHT AREA LIGHTING

P

REFERENCES

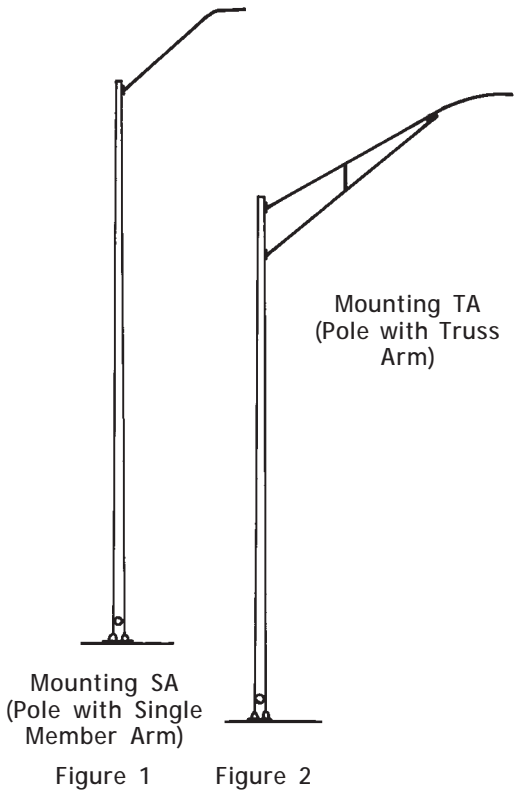
See Page P-21 for Anchor Base Data
See Page P-2 for Pole Selection Guidelines

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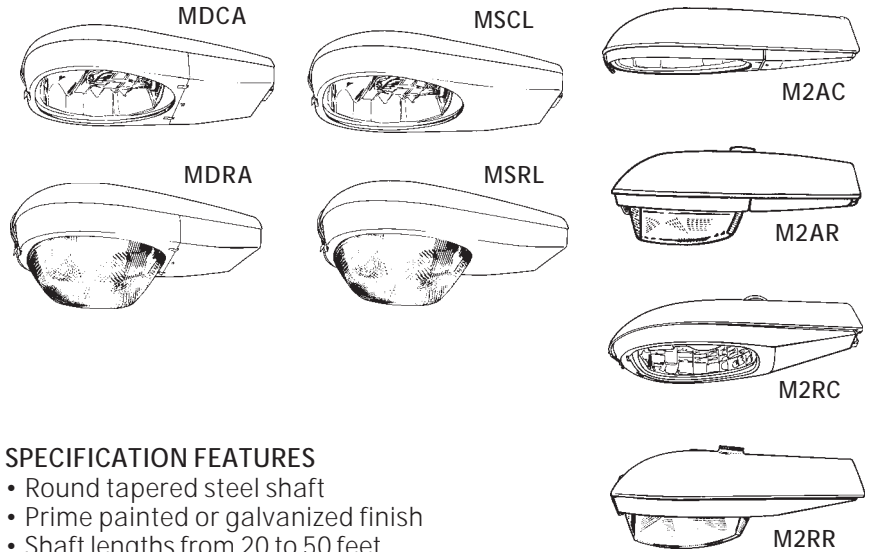
STEEL ROUND TAPERED ROADWAY LIGHTING POLES

20 TO 50 FEET (6 TO 15 METERS)

POLES AND BRACKETS STEEL ROUND TAPERED ROADWAY LIGHTING



SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Round tapered steel shaft
- Prime painted or galvanized finish
- Shaft lengths from 20 to 50 feet
- Choice of one, two, three, or four arms
- Single member or truss arm(s) included

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

R	R	T	S	20	SA	4S	6.5	11	PP	E
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	ARM LENGTH (FT)/ NUMBER	SHAFT DIMENSIONS BOTTOM SHAFT OD (IN.)	GAUGE	FINISH	OPTIONS
X	X	X	X	XX	XX	XXX	XXXX	XX	XX	X
R = Roadway	R = Round	T = Tapered	S = Steel	20 = 20 25 = 25 30 = 30 35 = 35 40 = 40 45 = 45* 50 = 50*	SA = Single Member Arm (See illustration above) TA = Truss Arm (See illustration above) NOTE: Arms are included with poles; two arms at 180°, three at 120°, and four at 90°	4S = One 4' arm 6S = One 6' arm 8S = One 8' arm 10S = One 10' arm 12S = One 12' arm 15S = One 15' arm 4D = Two 4' arms 6D = Two 6' arms 8D = Two 8' arms 10D = Two 10' arms 12D = Two 12' arms 15D = Two 15' arms 6T = Three 6' arms 6Q = Four 6' arms	6.5 = 6.5 7.0 = 7.0 7.5 = 7.5 8.0 = 8.0 8.5 = 8.5 9.0 = 9.0 9.5 = 9.5 10.0 = 10.0 10.5 = 10.5	7 = 7 10 = 10 11 = 11	GV = Galvanized PP = Prime painted (Standard) NOTE: if galvanized finish is required, substitute GV for PP in ordering number given in Pole Selection Table.	E = Electrical Festoon Box NOTE: If this option is required, add E to ordering number listed in Pole Selection Table.

REFERENCES

- See Page P-20 for Option Information
- See Page P-21 for Pole Base Data
- See Page P-2 for Pole Selection Guidelines

STEEL ROUND TAPERED ROADWAY LIGHTING POLES 20 TO 50 FEET (6 TO 15 METERS)

POLE SELECTION TABLE

Shipped with pole: anchor bolts, anchor bolt covers, handhole cover, shaft cap, hardware, and anchor bolt circle template.

Nominal Mounting Height (ft)	Arm Length (ft)	Number of Arms	Max Recommended Total Load			Ordering Number	Shaft Dimensions		Approximate Weight (lbs)	Pole Base Data Item Number
			EA* Weight (lbs)	Effective Projected Area (sq ft)	Max Isotach Zone (MPHI)		Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X gauge)			
POLES WITH SINGLE MEMBER ARM (FIG. 1)										
20	4	1	75	1.5 EPA EA	110	RRTS20SA4S6.511PP	6.5X4.2X17-0X11	141	2	
20	6	1	75	1.5 EPA EA	110	20SA6S6.511PP	6.5X4.2X17-0X11	151	2	
25	4	1	75	1.5 EPA EA	110	25SA4S7.011PP	7.0X4.0X22-0X11	180	3	
25	6	1	75	1.5 EPA EA	110	25SA6S7.011PP	7.0X4.0X22-0X11	190	3	
25	8	1	60	1.5 EPA EA	110	25SA8S7.011PP	7.0X4.0X22-0X11	200	3	
30	4	1	75	1.5 EPA EA	110	30SA4S7.511PP	7.5X3.8X27-0X11	275	4	
30	6	1	75	1.5 EPA EA	110	30SA6S7.511PP	7.5X3.8X27-0X11	285	4	
30	8	1	60	1.5 EPA EA	110	30SA8S7.511PP	7.5X3.8X27-0X11	295	4	
35	6	1	75	1.5 EPA EA	110	35SA6S8.011PP	8.0X3.6X32-0X11	330	5	
35	8	1	60	1.5 EPA EA	110	35SA8S8.011PP	8.0X3.6X32-0X11	340	5	
40	6	1	75	1.5 EPA EA	110	40SA6S9.011PP	9.0X3.9X37-0X11	401	8	
40	8	1	60	1.5 EPA EA	110	40SA8S9.011PP	9.0X3.9X37-0X11	411	8	
20	4	2	75	1.5 EPA EA	110	RRTS20SA4D6.511PP	6.5X4.2X17-0X11	171	2	
20	6	2	75	1.5 EPA EA	110	20SA6D6.511PP	6.5X4.2X17-0X11	186	2	
25	4	2	75	1.5 EPA EA	110	25SA4D7.011PP	7.0X4.0X22-0X11	210	3	
25	6	2	75	1.5 EPA EA	110	25SA6D7.011PP	7.0X4.0X22-0X11	225	3	
25	8	2	60	1.5 EPA EA	110	25SA8D7.011PP	7.0X4.0X22-0X11	240	3	
30	4	2	75	1.5 EPA EA	110	30SA4D7.511PP	7.5X3.8X27-0X11	305	4	
30	6	2	75	1.5 EPA EA	110	30SA6D7.511PP	7.5X3.8X27-0X11	320	4	
30	8	2	60	1.5 EPA EA	110	30SA8D7.511PP	7.5X3.8X27-0X11	335	4	
35	6	2	75	1.5 EPA EA	110	35SA6D8.011PP	8.0X3.6X32-0X11	370	5	
35	8	2	60	1.5 EPA EA	110	35SA8D8.011PP	8.0X3.6X32-0X11	385	5	
40	6	2	75	1.5 EPA EA	110	40SA6D9.011PP	9.0X3.9X37-0X11	436	8	
40	8	2	60	1.5 EPA EA	110	40SA8D9.011PP	9.0X3.9X37-0X11	456	8	
25	6	3	75	1.5 EPA EA	110	RRTS25SA6T7.011PP	7.0X4.0X22-0X11	262	3	
30	6	3	75	1.5 EPA EA	110	30SA6T7.511PP	7.5X3.8X27-0X11	326	4	
35	6	3	75	1.5 EPA EA	110	35SA6T8.011PP	8.0X3.6X32-0X11	371	5	
40	6	3	75	1.5 EPA EA	110	40SA6T9.011PP	9.0X3.9X37-0X11	447	8	
25	6	4	75	1.5 EPA EA	110	RRTS25SA6Q7.011PP	7.0X4.0X22-0X11	355	3	
30	6	4	75	1.5 EPA EA	110	30SA6Q7.511PP	7.5X3.8X27-0X11	395	4	
35	6	4	75	1.5 EPA EA	100	35SA6Q8.011PP	8.0X3.6X32-0X11	445	5	
40	6	4	75	1.5 EPA EA	100	40SA6Q9.011PP	9.0X3.9X37-0X11	490	8	
POLES WITH TRUSS ARM (FIG. 2)										
25	10	1	75	1.5 EPA EA	110	RRTS25TA10S6.511PP	6.5X3.7X20-0X11	256	2	
25	12	1	62	1.5 EPA EA	110	25TA12S6.511PP	6.5X3.7X20-0X11	265	2	
30	10	1	63	1.5 EPA EA	110	30TA10S7.011PP	7.0X3.5X25-0X11	295	3	
30	12	1	60	1.6 EPA EA	100	30TA12S7.011PP	7.0X3.5X25-0X11	304	3	
30	15	1	60	1.5 EPA EA	100	30TA15S7.511PP	7.5X4.0X25-0X11	380	4	
35	10	1	75	1.5 EPA EA	110	35TA10S8.011PP	8.0X3.8X30-0X11	361	5	
35	12	1	60	1.5 EPA EA	100	35TA12S8.011PP	8.0X3.8X30-0X11	370	5	
35	15	1	60	1.5 EPA EA	90	35TA15S8.511PP	8.5X4.3X30-0X11	450	7	
40	12	1	60	1.5 EPA EA	90	40TA12S8.511PP	8.5X3.8X33-6X11	435	7	
40	15	1	60	1.5 EPA EA	90	40TA15S9.011PP	9.0X4.3X33-6X11	480	8	
45	12	1	64	1.5 EPA EA	90	45TA12S9.511PP	9.5X4.1X38-6X11	510	10	
45	15	1	62	1.5 EPA EA	90	45TA15S10.011PP	10.0X4.6X38-6X11	567	11	
50	15	1	60	1.5 EPA EA	90	50TA15S10.510PP	10.5X4.4X43-6X10	900	13	
25	10	2	75	1.5 EPA EA	90	RRTS25TA10D6.511PP	6.5X3.7X20-0X11	327	2	
25	12	2	75	1.5 EPA EA	90	25TA12D6.511PP	6.5X3.7X20-0X11	344	2	
30	10	2	75	1.5 EPA EA	90	30TA10D7.011PP	7.0X3.5X25-0X11	366	3	
30	12	2	75	1.6 EPA EA	90	30TA12D7.511PP	7.5X4.0X25-0X11	475	4	
30	15	2	75	1.5 EPA EA	90	30TA15D8.011PP	8.0X4.5X25-0X11	535	5	
35	10	2	75	1.5 EPA EA	90	35TA10D8.011PP	8.0X3.8X30-0X11	413	5	
35	12	2	75	1.5 EPA EA	90	35TA12D8.511PP	8.5X4.3X30-0X11	545	7	
35	15	2	75	1.5 EPA EA	90	35TA15D9.011PP	9.0X4.8X30-0X11	615	8	
40	12	2	75	1.5 EPA EA	90	40TA12D9.511PP	9.5X4.8X33-6X11	586	10	
40	15	2	75	1.5 EPA EA	90	40TA15D10.011PP	10.0X5.3X33-6X11	661	11	
45	12	2	75	1.5 EPA EA	90	45TA12D10.510PP	10.5X5.1X38-6X10	860	13	
45	15	2	75	1.5 EPA EA	90	45TA15D10.510PP	10.5X5.1X38-6X10	912	13	
50	15	2	75	1.5 EPA EA	90	50TA15D10.07PP	10.0X3.9X43-6X7	939	12	

* EA = Each Arm

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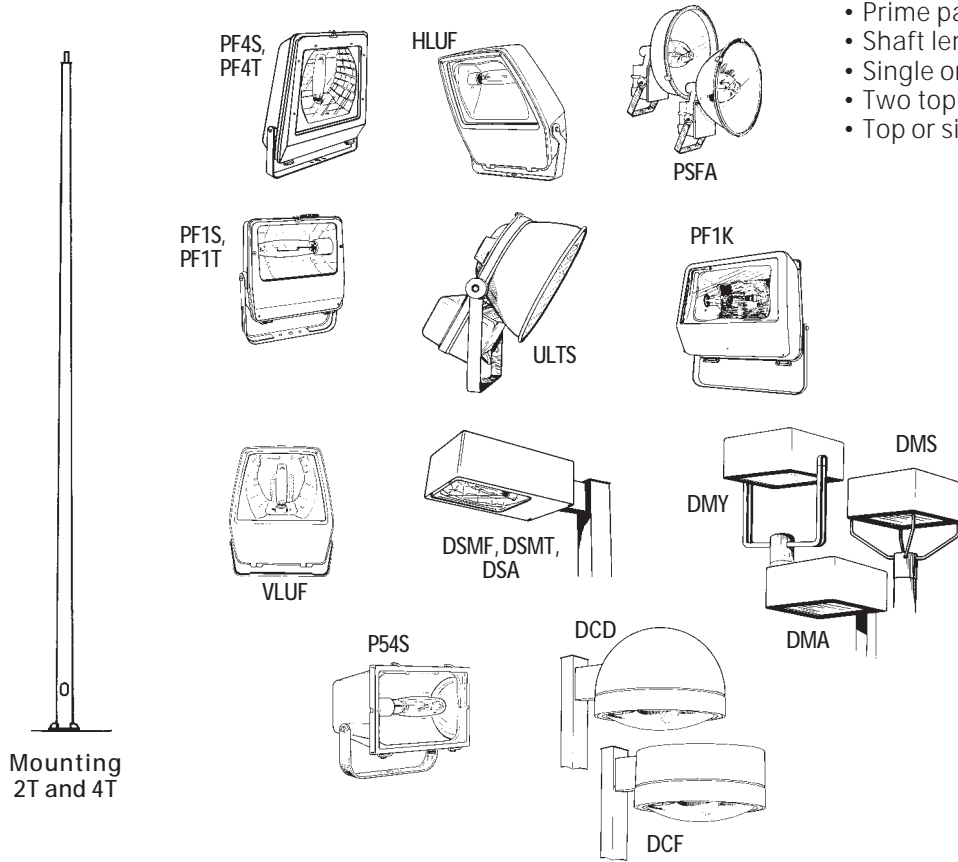
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POLES AND BRACKETS STEEL ROUND TAPERED ROADWAY LIGHTING

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STEEL ROUND TAPERED AREA LIGHTING POLES 20 TO 60 FEET (6 TO 18 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Round tapered steel shaft
- Prime painted or galvanized finish
- Shaft lengths from 20 to 60 feet
- Single or multiple luminaire mounting
- Two top tenon sizes
- Top or side mounted brackets available

POLES AND BRACKETS STEEL ROUND TAPERED AREA LIGHTING

P

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	R	T	S	20	2T	6.5	11	PP	B1
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS GAUGE		FINISH	OPTIONS
X	X	X	X	XX	XX	XXXX	XX	XX	XX
A = Area	R = Round	T = Tapered	S = Steel	20 = 20 25 = 25 30 = 30 35 = 35 39 = 39 45 = 45* 50 = 50* 60 = 60* NOTE: *Shafts over 40 feet may be two-piece with overlapping joint (upper portion 11 gauge; lower portion gauge as noted.)	2T = 2-3/8-in. OD top tenon (See illustration above) 4T = 4-in. OD top tenon (See illustration above) DB = Drill holes for mounting two Decashield® luminaires at 90°* DO = Drill holes for two Decashield at 180°* OD = Drill holes for four Decashield* SD = Drill holes for single Decashield* TB = Drill holes for three Decashield at 90°* TD = Drill holes for three Decashield at 120°* NOTE: *Order round pole mounting adapter separately. NOTE: These mountings can be used with any of the poles listed; substitute the correct mounting designation for XX in ordering number listed in Selection Table. NOTE: Drilling templates are the same for Decashield®, Dimension®, and Decasphere™ luminaires.	6.5 = 6.5 7.0 = 7.0 8.0 = 8.0 8.5 = 8.5 9.0 = 9.0 9.5 = 9.5 10.0 = 10.0 11.0 = 11.0 12.0 = 12.0 12.5 = 12.5	3 = 3 7 = 7 11 = 11	GV = Galvanized PP = Prime Painted (Standard) NOTE: If galvanized finish is required, substitute GV for PP in ordering number listed in Pole Selection Table.	B1 = One 18-in. side mounted bracket B2 = Two 18-in. side mounted brackets at 180° B4 = Four 18-in. side mounted brackets at 90° E = Electrical Festoon Box NOTE: If any of these options is required, add appropriate designation(s) to ordering number listed in Pole Selection Table.

STEEL ROUND TAPERED AREA LIGHTING POLES 20 TO 60 FEET (6 TO 18 METERS)

POLE SELECTION TABLE

Shipped with pole: anchor bolts, anchor bolt covers, handhole cover, hardware, and anchor bolt circle template.
Shaft cap included with poles drilled for Decashield® luminaire mounting.

Nominal Mounting Height (ft)	Max Recommended Total Load						Ordering Number	Shaft Dimensions		Approximate Weight (lbs)	Pole Base Data Item Number
	EPA (sq ft) 80 MPH	Weight (lbs)	EPA (sq ft) 90 MPH	Weight (lbs)	EPA (sq ft) 100 MPH	Weight (lbs)		Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X gauge)			
20	19.3	482	15.1	397	12.2	305	ARTS20XX5.911XX	5.9X3.1X20.0X11	135	6	
20	24.2	605	19.3	482	15.6	390	20XX6.511XX	6.5X3.7X20.0X11	191	9	
25	12.5	312	9.9	247	8.0	200	25XX5.911XX	5.9X2.4X25.0X11	152	6	
25	20.3	507	16.2	405	13.1	327	25XX7.011XX	7.0X3.5X25.0X11	229	14	
30	11.7	292	9.3	232	7.5	189	30XX6.611XX	6.6X2.4X30.0X11	190	9	
30	18.9	552	14.9	422	12.0	342	30XX8.011XX	8.0X3.8X30.0X11	291	15	
35	11.2	280	8.9	222	7.1	177	35XX7.311XX	7.3X2.4X35.0X11	235	4	
35	18.9	472	15.1	377	12.2	305	35XX8.511XX	8.5X3.6X35.0X11	336	18	
39	10.7	267	8.5	212	6.6	170	39XX7.811XX	7.8X2.4X39.0X11	271	15	
39	17.2	452	13.5	362	10.8	292	39XX9.011XX	9.0X3.6X39.0X11	387	19	
45	17.4	450	13.5	360	10.0	292	45XX10.011XX	10.0X3.7X45.0X11	492	20	
45	28.5	525	23.0	425	19.0	350	45XX10.07XX	10.0X3.9X45.0X7	720	12	
50	13.2	330	10.6	265	8.3	215	50XX10.011XX	10.0X3.0X50.0X11	511	20	
50	20.5	407	16.5	322	13.6	292	50XX10.07XX	10.0X3.2X50.0X7	752	12	
60	25.9	515	20.7	417	16.8	345	60XX12.07XX	12.0X3.8X60.0X7	1119	16	
60	34.0	850	27.6	687	22.6	562	60XX12.53XX	12.5X4.5X60.0X3	1488	17	

REFERENCES

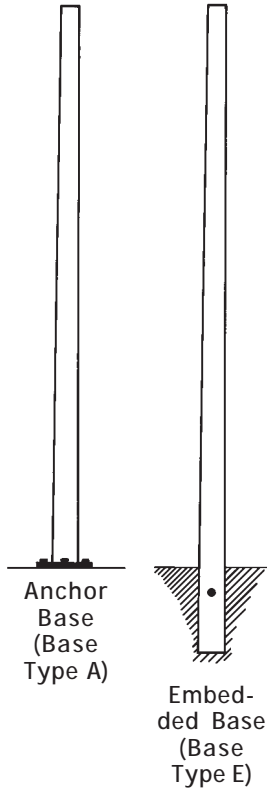
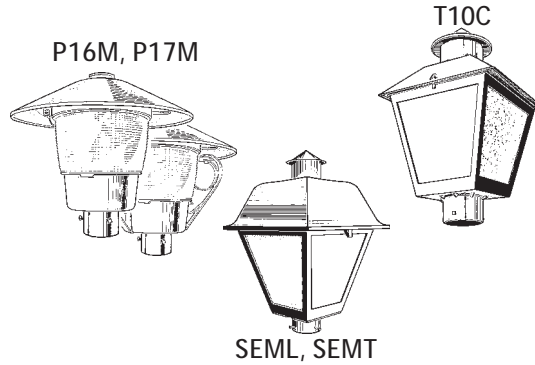
- See Pole Accessories for Bracket Ordering Information
- See Area Accessories for Round Pole Mounting Adapter
- See Page P-20 for Option Information
- See Page P-21 for Pole Base Data
- See Page P-2 for Pole Selection Guidelines

STEEL ROUND TAPERED AREA LIGHTING POLES 10 TO 20 FEET (3 TO 6 METERS)

SUGGESTED LUMINAIRE APPLICATIONS

SPECIFICATION FEATURES

- Round tapered steel shaft
- Prime painted or galvanized finish
- Shaft lengths from 10 to 20 feet
- Three inch OD top for mounting single luminaire
- Choice of anchor or embedded base



POLE SELECTION TABLE

Shipped with pole: anchor bolts, decorative chrome cap nuts, hardware, and anchor bolt circle template.

Nominal Mounting Height (ft)	Maximum Recommended Total Load			Ordering Number	Shaft Dimensions Bottom OD X Top OD X Length X Thickness (in. X in. X ft-in. X gauge)	Approximate Weight (lbs)	Pole Base Data Item Number	
	Weight (lbs)	Effective Projected Area (sq ft)						
		70 MPH	80 MPH	90 MPH				
POLES WITH ANCHOR BASE. SEE FIG. 1.								
10	125	12.7	9.6	7.4	ARTS103S4.411APP	4.40 X 3.0 X 10-0 X 11	61	1
12	125	11.7	8.7	6.7	123S4.711APP	4.68 X 3.0 X 12-0 X 11	72	1
14	125	11.1	8.2	6.3	143S5.011APP	4.96 X 3.0 X 14-0 X 11	85	1
16	125	10.8	7.9	6.0	163S5.211APP	5.24 X 3.0 X 16-0 X 11	98	1
18	125	10.8	7.9	5.9	183S5.511APP	5.52 X 3.0 X 18-0 X 11	111	1
20	125	11.1	8.1	6.0	203S5.811APP	5.80 X 3.0 X 20-0 X 11	126	1
POLES WITH EMBEDDED BASE. SEE FIG. 2.								
10	125	13.3	10.0	7.7	ARTS103S4.711EPP	4.68 X 3.0 X 12-0 X 11	59	-
12	125	12.4	9.3	7.2	123S5.011EPP	4.96 X 3.0 X 14-0 X 11	71	-
14	125	11.6	8.7	6.6	143S5.211EPP	5.24 X 3.0 X 16-0 X 11	84	-
16	125	10.9	8.1	6.1	163S5.511EPP	5.52 X 3.0 X 18-0 X 11	98	-
18	125	10.3	7.6	5.7	183S5.811EPP	5.80 X 3.0 X 20-0 X 11	112	-
20	125	9.0	7.1	5.3	203S6.111EPP	6.08 X 3.0 X 22-0 X 11	127	-

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	R	T	S	10	3S	4.4	11	A	PP
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS BOTTOM SHAFT OD (IN.)	SHAFT GAUGE	BASE TYPE	FINISH
X	X	X	X	XX	XX	XXX	XX	X	XX
A = Area	R = Round	T = Tapered	S = Steel	10 = 10 12 = 12 14 = 14 16 = 16 18 = 18 20 = 20	3S = 3-in. OD top for single luminaire	4.4 = 4.4 4.7 = 4.7 5.2 = 5.2 5.5 = 5.5 5.8 = 5.8 6.0 = 6.0 6.1 = 6.1	11 = 11	A = Anchor (See illustration above) E = Embedded (See illustration above)	GV = Galvanized PP = Prime Painted (Standard) NOTE: If galvanized finish is required, substitute GV for PP in ordering number listed in Pole Selection Table.

REFERENCES

See Page P-21 for Pole Base Data

See Page P-2 for Pole Selection Guidelines

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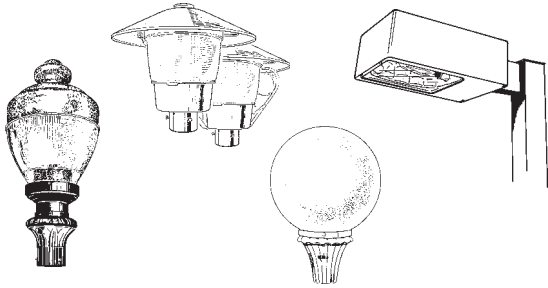
POLES AND BRACKETS STEEL ROUND TAPERED AREA LIGHTING

P

STEEL NON-TAPERED AREA LIGHTING POLES

10 TO 30 FEET (3 TO 9 METERS)

SUGGESTED LUMINAIRE TYPES



SPECIFICATION FEATURES

- Round straight non-tapered steel shaft
- Dark bronze powder coated finish standard
- Shaft lengths from 10 to 30 feet
- Single or multiple luminaire mounting
- Top tenon choicer
- Shipped with pole: anchor bolts, handhole opening with cover, electrical grounding kit and spirally wrapped packing with rip cord removal system



POLE SELECTION TABLE

Ordering Number	Nominal Mounting Height (ft)	Shaft Dia (in)	Thickness (in)	EPA (sq ft) MPHI, w/1.3 Gust			Bolt Circle (in)	Bolt Size (in)	A. B. Projection (in)	Round Base Size (in)	Approximate Ship Weight (lbs.)
				80	90	100					
ARSS-10XX3011DB	10	3	0.120	10.00	7.70	6.00	7 - 9	3/4X17	2.50	10.5	55
ARSS-10XX4011DB	10	4	0.120	19.10	15.00	12.20	7 - 9	3/4X17	2.50	10.5	70
ARSS-10XX4511DB	10	4.5	0.120	24.50	19.50	15.80	7 - 9	3/4X17	2.50	10.5	75
ARSS-12XX3011DB	12	3	0.120	7.70	5.80	4.40	7 - 9	3/4X17	2.50	10.5	60
ARSS-12XX4011DB	12	4	0.120	15.00	11.80	9.50	7 - 9	3/4X17	2.50	10.5	80
ARSS-12XX4511DB	12	4.5	0.120	19.80	15.70	12.70	7 - 9	3/4X17	2.50	10.5	85
ARSS-14XX3011DB	14	3	0.120	6.00	4.40	3.30	7 - 9	3/4X17	2.50	10.5	70
ARSS-14XX4011DB	14	4	0.120	12.20	9.40	7.60	7 - 9	3/4X17	2.50	10.5	90
ARSS-14XX4511DB	14	4.5	0.120	16.20	12.80	10.30	7 - 9	3/4X17	2.50	10.5	95
ARSS-16XX3011DB	16	3	0.120	4.60	3.20	2.30	7 - 9	3/4X17	2.50	10.5	80
ARSS-16XX4011DB	16	4	0.120	9.60	7.40	5.90	7 - 9	3/4X17	2.50	10.5	100
ARSS-16XX4511DB	16	4.5	0.120	13.10	10.20	8.20	7 - 9	3/4X17	2.50	10.5	105
ARSS-18XX3011DB	18	3	0.120	3.40	2.30	1.40	7 - 9	3/4X17	2.50	10.5	90
ARSS-18XX4011DB	18	4	0.120	7.60	5.70	4.50	7 - 9	3/4X17	2.50	10.5	110
ARSS-18XX4511DB	18	4.5	0.120	10.50	8.20	6.50	7 - 9	3/4X17	2.50	10.5	115
ARSS-20XX3011DB	20	3	0.120	2.40	1.40	—	7 - 9	3/4X17	2.50	10.5	100
ARSS-20XX4011DB	20	4	0.120	6.00	4.45	3.45	7 - 9	3/4X17	2.50	10.5	120
ARSS-20XX4511DB	20	4.5	0.120	8.50	6.60	5.20	7 - 9	3/4X17	2.50	10.5	130
ARSS-20XX5011DB	20	5	0.120	11.75	9.10	7.25	7 - 9	3/4X17	2.50	10.5	145
ARSS-25XX4011DB	25	4	0.120	2.85	1.95	1.35	7 - 9	3/4X17	2.50	10.5	145
ARSS-25XX4511DB	25	4.5	0.120	4.80	3.60	2.70	7 - 9	3/4X17	2.50	10.5	155
ARSS-25XX5011DB	25	5	0.120	7.25	5.50	4.25	7 - 9	3/4X17	2.50	10.5	180
ARSS-25XX507DB	25	5	0.180	12.10	9.40	7.45	7 - 9	3/4X17	2.50	10.5	195
ARSS-30XX4511DB	30	4.5	0.120	2.30	1.50	1.00	7 - 9	3/4X17	2.50	10.5	185
ARSS-30XX5011DB	30	5	0.120	4.20	3.00	2.25	7 - 9	3/4X17	2.50	10.5	210
ARSS-30XX507DB	30	5	0.180	8.00	6.50	4.75	7 - 9	3/4X17	2.50	10.5	235

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

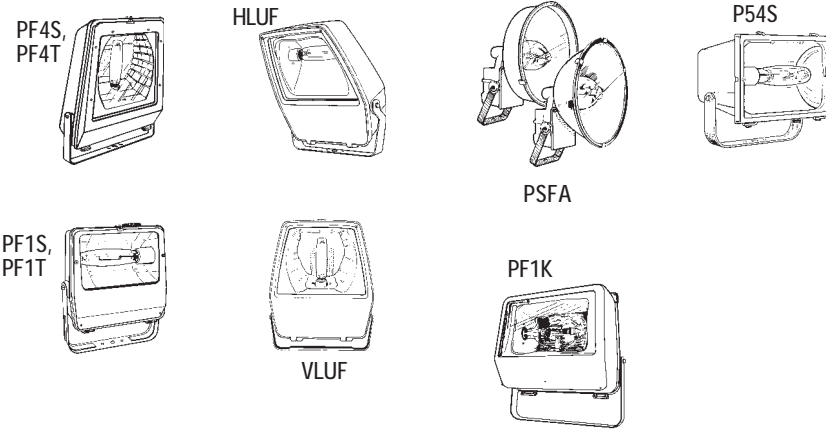
A	R	S	S	20	SD	40	11	DB
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	SHAFT SHAPE	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS (IN. X IN.)		FINISH
X	X	X	X	XX	XX	X	XX	XX
A = Area	R = Round	S = Straight	S = Steel	10 = 10 12 = 12 14 = 14 16 = 16 18 = 18 20 = 20 25 = 25 30 = 30	DB = Drill holes for mounting two luminaires at 90** DO = Drill holes for two luminaires at 180** DQ = Drill holes for four luminaires* SD = Drill holes for single luminaire* TB = Drill holes for three luminaires at 90** TD = Drill holes for three luminaires at 120** TT = 2-3/8-in. OD top tenon (Fig. 1) 2T = 2-3/8-in. OD top tenon 3T = 3-in. OD top tenon NOTE: *Drill for SPMM luminaire as indicated NOTE: Substitute required mounting designation for XX in ordering number listed in Selection Table. NOTE: Order round pole mounting adapter separately.	30 = 3X3 40 = 4X4 45 = 4.5X4.5 50 = 5X5	11 = 0.120 7 = 0.180	BL = Black DB = Dark bronze powder coat (Standard) MB = Medium Bronze WH = White NOTE: If other than dark bronze finish is required, substitute designation for DB in Ordering Number

REFERENCES

See Page P-2 for Pole Selection Guidelines

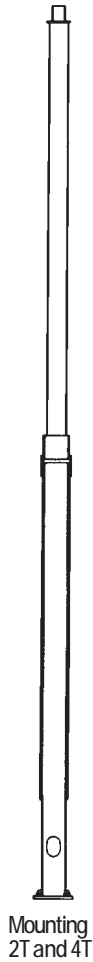
STEEL SQUARE HINGED AREA LIGHTING POLES 20 TO 39 FEET (6 TO 12 METERS)

SUGGESTED LUMINAIRE APPLICATIONS



SPECIFICATION FEATURES

- Square hinged steel shaft
- Prime painted inside and out
- Shaft lengths from 20 to 39 feet
- Two top tenon sizes
- Stainless steel pin for hinge
- Flexible wiring guide at hinge area
- Portable lowering mechanisms available



POLES AND BRACKETS STEEL SQUARE HINGED AREA LIGHTING

ORDERING NUMBER LOGIC (See Pole Selection Table for actual Ordering Numbers)

A	SH	S	20	2T	4.0	11	PP
PRODUCT IDENT (LUMINAIRE USAGE)	POLE CROSS SECTION	POLE MATERIAL	NOMINAL MOUNTING HEIGHT (FT)	MOUNTING	SHAFT DIMENSIONS		FINISH
					BOTTOM SHAFT OD (IN.)	GUAGE	
X	XX	X	XX	XX	XXX	XX	XX
A = Area	SH = Square Hinged	S = Steel	20 = 20 25 = 25 30 = 30 39 = 39	2T = 2-3/8-in. OD top tenon (See illustration above) 4T = 4-in. OD top tenon (See illustration above) NOTE: Either of these mountings can be used with any of the poles listed; substitute the correct mounting designation for XX in the ordering number listed in the Selection Table	4.0 = 4.00 6.4 = 6.41 7.1 = 7.13 7.2 = 7.18	7 = 7 11 = 11	PP = Prime Painted (Standard) BL = Black DB = Dark Bronze GV = Galvanized

P

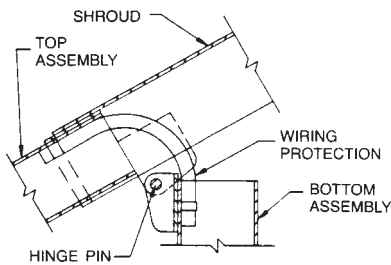
STEEL SQUARE EXTERNAL HINGED AREA LIGHTING POLES 20 TO 39 FEET (6 TO 12 METERS)

POLE SELECTION TABLE

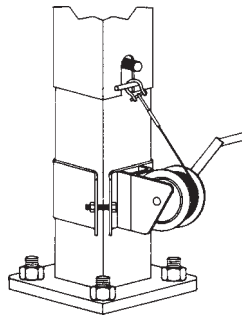
Shipped with pole: anchor bolts, hardware, and anchor bolt circle template.

Ordering Number	Nominal Mounting Height (ft)	Pole Shaft Size (in.)	Max Recommended Total Load				Bolt Circle Diameter (in.)	Base Plate Size (sq in. X thickness [in.])	Anchor Bolt Size (in.)	
			Weight (lbs)	Effective Projected Area (sq ft) MPHI						
				70	80	90	100			
ASHS20XX4.07PP	20	4.00	217	16.2	11.6	8.5	6.2	8.5	9.75 X 0.750	3/4 X 17 X 3
25XX4.07PP	25	4.00	160	10.6	7.1	4.8	3.1	8.5	9.75 X 0.750	3/4 X 17 X 3
25XX6.411PP	25	6.41	254	25.2	18.0	13.0	9.3	12.5	11.88 X 0.875	1 X 36 X 4
30XX4.07PP	30	4.00	120	6.8	4.0	2.1	0.8	8.5	9.75 X 0.750	3/4 X 17 X 3
30XX6.411PP	30	6.41	230	18.4	12.5	8.3	5.1	12.5	11.88 X 0.875	1 X 36 X 4
35XX7.211PP	35	7.18	160	12.7	7.1	3.2	-	13.5	12.63 X 0.875	1 X 36 X 4
35XX7.17PP	35	7.13	155	28.5	22.0	16.9	12.1	13.5	12.63 X 1.250	1 X 36 X 4
39XX7.17PP	39	7.13	110	28.3	19.5	13.5	9.2	13.5	12.63 X 1.250	1 X 36 X 4

NOTE: All 4-inch shaft size poles are non-tapered; all poles above 4-inch shaft size are tapered.



HINGE SECTION DETAIL



WINCH DETAIL

Removable design to be used only during maintenance. Not to be installed permanently.

WINCH/CHAIN KIT*

Ordering Number	Used With Pole
M180A	ASHS20XX4.07
M180A	ASHS25XX4.07
M136	ASHS25XX6.411
M180A	ASHS30XX4.07
M136	ASHS30XX6.411
M135	ASHS35XX7.17
M135	ASHS35XX7.211
M135	ASHS39XX7.17

NOTE: *One required per pole.

CAUTION: To prevent damage to the pole the chain and/or cable must be kept taut when raising and lowering the pole.

REFERENCES

See Page P-2 for Pole Selection Guidelines

OPTIONS

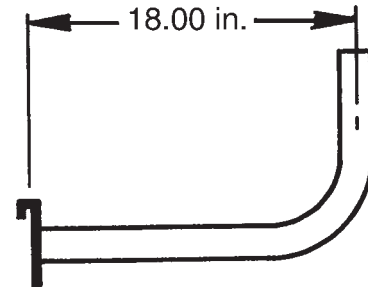
These options are available for selected poles only; refer to product pages for availability. Add the option designation to the end of the Ordering Number for the appropriate pole. If more than one option applies, add all the required option designations to the appropriate Ordering Number.

ELECTRICAL FESTOON BOX (E)

E = Electrical festoon box (double) located 15 feet above the base on the handhole side of the shaft. No weatherproof cover or electrical receptacle supplied. Order separately from electrical distributor.

SIDE MOUNTED BRACKET(S) FOR STEEL AREA LIGHTING POLE (B1, B2, or B4)

B1, B2, or B4 = One, two or four 18-in. side mounted brackets for area round tapered steel pole.



NUMBER OF BRACKETS	BRACKET PLACEMENT (4 FEET FROM POLE TOP)	MAX RECOMMENDED LUMINAIRE LOAD, EACH		ADD TO POLE ORDERING NUMBER	BRACKET SIZE		
		WEIGHT (LBS)	EFFECTIVE PROJECTED AREA (EPA) (SQ FT)		PIPE SIZE (IN.)	WEIGHT (LBS)	EPA (SQ FT)
One	Handhole side	93	4.1	B1 (Fig. 1)	2	10	0.5
Two	180° (90° to handhole side)	93	4.1	B2	2	20	1.0
Four	90° (45° to handhole side)	93	4.1	B4	2	40	2.0

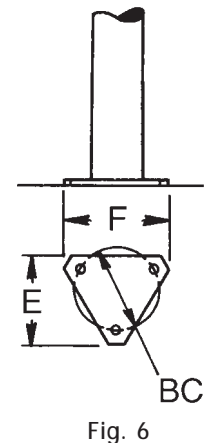
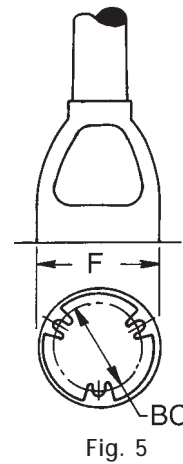
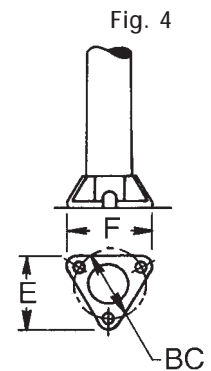
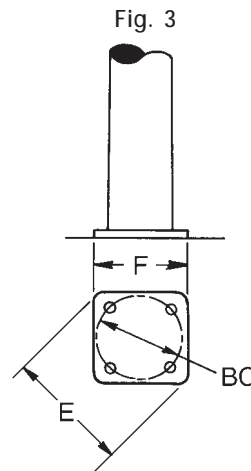
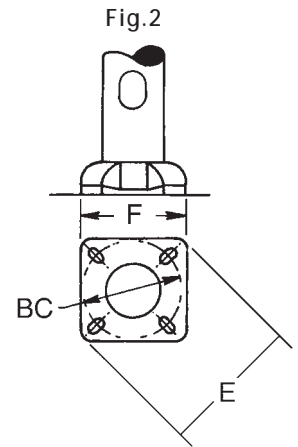
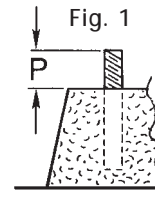
POLE BASE DATA

POLE BASE DATA ITEM NUMBER*	ANCHOR BOLTS						BOLT CIRCLE		FOUNDATION**	
	Bolt Circle "BC" (in.)	Side Width "F" (in.)	Diag. Width "E" (in.)	(Fig. 1) Bolt Projection "P" (in.)	No. Per Set	Dia. X Length (in. X in.)	Dia. (in.)	Design*** Moment (ft lbs)	Fig.	
AREA ROUND TAPERED ALUMINUM 20-45 FT AND ROADWAY ROUND TAPERED ALUMINUM 20-40 FT (FIG. 2)										
43	9-10	9.75	12-3/4	2-3/4	4	1X40	9.5	6000	2	
44	10-11	10.50	13-3/4	2-3/4	4	1X40	11.0	8000	2	
45	11-12	11.25	12-7/8	2-3/4	4	1X40	11.0	14,000	2	
46	14-15	14.00	17-7/8	3-1/4	4	1X40	15.0	26,000	2	
AREA ROUND TAPERED STEEL 20-60 FT AND ROADWAY ROUND TAPERED STEEL 20-50 FT (FIG. 3)										
2	9-10	10.00	13-11/16	2-3/8	4	1X40	9.5	14,000	2	
3	9.5-10.5	10.50	14-1/4	2-3/8	4	1X40	10.0	16,000	2	
4	10-11	11.00	14-3/4	2-3/8	4	1X40	10.5	20,000	2	
5	10.5-11.5	11.50	15-1/4	2-3/8	4	1X40	11.0	21,000	2	
6	9	9.50	12-3/4	2-3/8	4	1X40	9.0	14,000	3	
7	11-12	12.00	15-11/16	2-1/2	4	1X40	11.5	24,000	2	
8	12-13	13.00	16-15/16	2-1/2	4	1X40	12.5	27,000	2	
9	9.5	10.00	3-11/16	2-3/8	4	1X40	9.5	17,000	3	
10	12.5-13.5	13.50	17-3/8	2-1/2	4	1X40	13.0	30,000	2	
11	13-14	14.00	17-13/16	2-1/2	4	1X40	13.5	33,000	2	
12	13-14	14.00	17-13/16	3-1/16	4	1-1/4X48	13.5	49,000	2	
13	14	14.50	19	3-1/16	4	1-1/4X48	14.0	41,000	3	
14	10	10.50	14-1/4	2-3/8	4	1X40	10.0	20,000	3	
15	11	11.50	15-1/4	2-3/8	4	1X40	11.0	26,000	3	
16	16	17.00	22-1/2	3-5/8	4	1-1/2X60	16.0	71,000	3	
17	16.5	17.50	22-3/4	3-5/8	4	1-1/2X60	16.5	101,000	3	
18	11.5	12.00	15-11/16	2-3/8	4	1X40	11.5	29,000	3	
19	12.5	13.00	16-15/16	2-3/8	4	1X40	12.5	32,000	3	
20	13.5	14.00	17-13/16	2-3/8	4	1X40	13.5	40,000	3	
AREA ROUND TAPERED ALUMINUM 10-20 FT (FIG. 4, ITEMS 40 AND 41; FIG. 5, ITEM 42)										
40	7	8.00	8-7/8	2	3	3/4X20	7.0	2,000	4	
41	8	9.00	10-1/4	2	3	3/4X20	8.0	4,000	4	
42	9	12.50	-	1-3/4	3	3/4X20	9.0	4,000	5	
AREA ROUND TAPERED STEEL 10-20 FT (FIG. 6)										
1	8	9-13/16	8-1/2	2	3	3/4X20	8.0	11,000	6	

NOTE: *Pole Base Data Item Number is coded to the last column in Pole Selection Table. Refer to product page for the appropriate reference.

NOTE: ***Design moments are the maximum overturning moments expected to be applied to the foundation by the pole. Appropriate safety factors must be used by the foundation designer.

NOTE: Transformer bases are available for selected poles. Contact factory for availability and other information.



POLES AND BRACKETS POLE BASE DATA

P

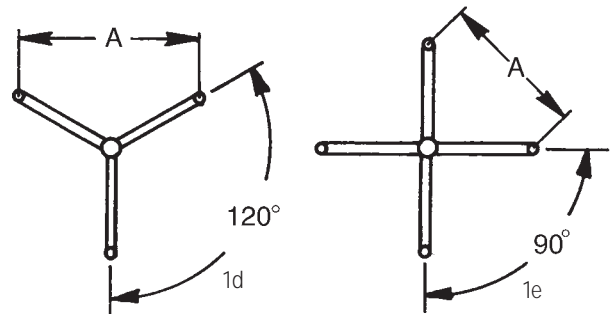
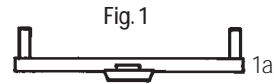
ACCESSORIES

FLOODLIGHTING BRACKETS FOR ALUMINUM POLES WITH PLATE MOUNT

Floodlighting bracket, aluminum, for mounting on aluminum poles, **plate mount only**. Bracket mounts multiple luminaires on 2-3/8-in. OD tenons.

BRACKET SELECTION TABLE

Number/ Placement Tenons	See Fig.	Ordering Number	Adjacent Tenon Spacing A (in.)	Tenon Top OD (in.)	Bracket Size	
					Weight (lbs)	EPA (sq ft)
2 in line	1a	FBAPB2TT	33	2-3/8	5	0.6
3 in line	1b	FBAPC2TT	33	2-3/8	8	1.1
4 in line	1c	FBAPD2TT	33	2-3/8	11	1.6
3 at 120°	1d	FBAPF2TT	41	2-3/8	10	0.7
4 at 90°	1e	FBAPF2TT	34	2-3/8	13	0.8



SPORTS LIGHTING CROSSARM BRACKETS

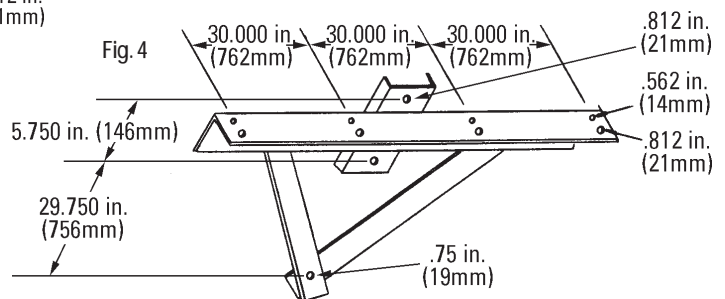
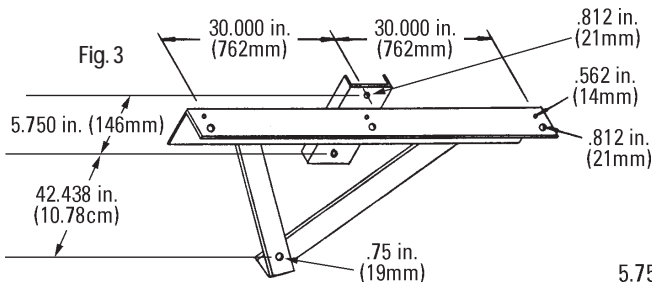
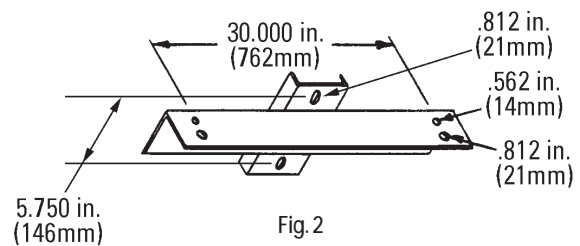
Sports lighting bracket, steel crossarm for mounting 2, 3, or 4 floodlights on wood poles.

BRACKET SELECTION TABLE

Number of Floodlights	See Fig.	Pole Material	Ordering Number	Bracket Size	
				Weight (lbs)	EPA (sq ft)
2	2	wood	SBSXBWPP	21	1.4
3	3	wood	SBSXCWPP	54	3.9
4	4	wood	SBSXDWPP	65	4.8

NOTE: If bracket is to be used for retrofitting an existing steel pole, substitute S for W in ordering number listed in Selection Table.

NOTE: All brackets are prime painted. For galvanized brackets, contact factory.



POLES AND BRACKETS ACCESSORIES

P

ACCESSORIES

FLOODLIGHTING BRACKETS, STEEL BULLHORN

Floodlighting bracket steel bullhorn for pole with 2-3/8 in. or 4 in. OD top tenon. Bracket has 2-3/8 in. top OD and is prime painted.

BRACKET SELECTION TABLE

Number/ Placement Tenons	See Fig.	Recommended Size of Each Luminaire		Ordering Number	Adjacent Tenon Spacing A (in.)	Luminaire Mounting OD (in.)	Bracket Size		
		Max Weight (lbs)	Max EPA (sq ft)				Weight (lbs)	EPA (sq ft)	
BRACKETS TO FIT POLES HAVING 2-3/8 IN. OD TOP TENON									
2 in line	1a	100	5.0	FBSB2B2TTPP	36	2-3/8	21	1.0	
3 in line	1b	100	3.8	FBSB2C2TTPP	30	2-3/8	32	1.6	
4 in line	1c	100	3.0	FBSB2D2TTPP	30	2-3/8	44	2.3	
3 at 120°	1d	100	3.8	FBSB2E2TTPP	41	2-3/8	34	1.3	
4 at 90°	1e	100	3.0	FBSB2F2TTPP	34	2-3/8	44	1.6	
BRACKETS TO FIT POLES HAVING 4 IN. OD TOP TENON									
3 in line	1b	125	6.0	FBSB4C2TTPP	36	2-3/8	37	1.9	
4 in line	1c	125	6.0	FBSB4D2TTPP	36	2-3/8	67	2.6	
3 at 120°	1d	125	6.0	FBSB4E2TTPP	41	2-3/8	38	1.5	
4 at 90°	1e	125	6.0	FBSB4F2TTPP	34	2-3/8	48	1.6	

NOTE: All brackets are prime painted. For galvanized brackets, substitute **GV** for **PP** in ordering number listed in Selection Table.

ROADWAY BRACKETS, STEEL UPSWEEP AND STRAIGHT FOR 2-3/8 IN. OD POLE TOP TENONS

Roadway bracket steel upswEEP or straight, for poles with 2-3/8 in. OD pole top tenons. Bracket has 2-3/8 in. OD and is prime painted.

BRACKET SELECTION TABLE

Number/ Placement Tenons	See Fig.	Bracket Dimensions		Recommended Size of Each Luminaire		Ordering Number	Luminaire Mounting OD (in.)	Bracket Size	
		A (ft)	B (in.)	Max Weight (lbs)	Max EPA (sq ft)			Weight (lbs)	EPA (sq ft)
STEEL UPSWEEP BRACKET FOR 2-3/8 IN. OD TOP TENON									
1	2a	6	24	75	2.0	RBSU2H6PP	2-3/8	29	1.5
2 at 180°	2b	6	24	75	2.0	RBSU2J6PP	2-3/8	54	2.8
3 at 120°	2c	4	24	75	2.0	RBSU2K4PP	2-3/8	76	1.8
4 at 90°	2d	4	24	75	2.0	RBSU2L4PP	2-3/8	99	2.9
STEEL STRAIGHT BRACKET FOR 2-3/8 IN. OD TOP TENON									
1	3a	2	5	125	6.0	RBSS2H2PP	2-3/8	12	0.6
2 at 180°	3b	2	5	125	6.0	RBSS2J2PP	2-3/8	18	1.0
3 at 120°	2c	2	5	125	6.0	RBSS2K2PP	2-3/8	26	1.0
4 at 90°	2d	2	5	125	6.0	RBSS2L2PP	2-3/8	32	1.4

NOTE: All brackets are prime painted. For galvanized brackets, substitute **GV** for **PP** in ordering number listed in Selection Table.

Figure 1

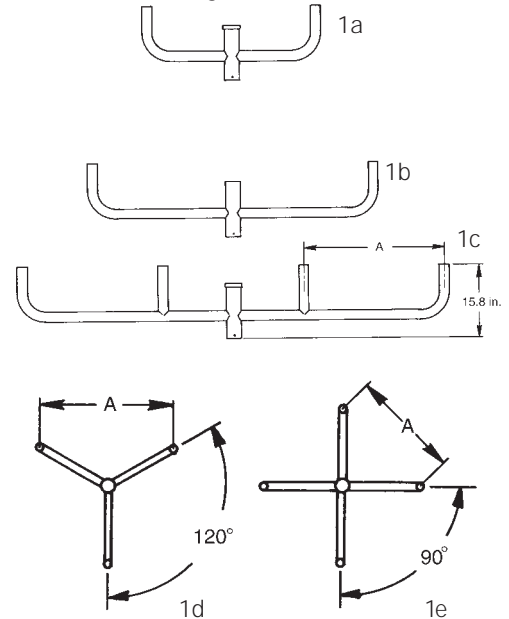


Figure 2

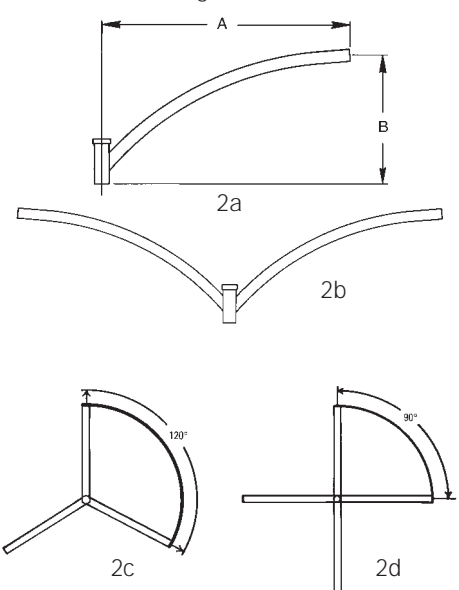
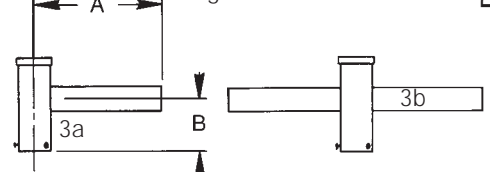


Figure 3



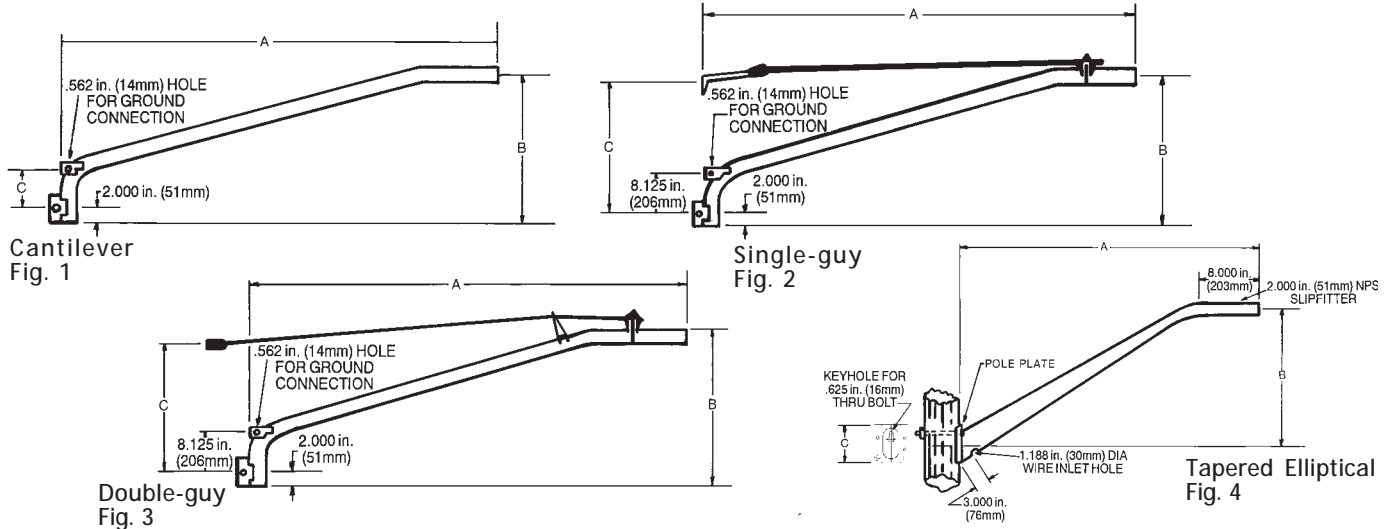
POLES AND BRACKETS ACCESSORIES

P

ACCESSORIES

ROADWAY BRACKETS FOR WOOD POLE MOUNTING

Roadway bracket aluminum or galvanized steel for mounting on wood poles, pipe sizes from 1-1/4 to 2-in. (32 to 51mm).



BRACKET SELECTION TABLE Thru bolts and lag screws not included

Nominal Length	See Fig.	Recommended Size of Each Luminaire 80 MPH (For high wind velocities, consult factory)				Ordering Number	Pipe Size		Bracket Dimensions						Weight				
		Max Weight (lbs)	Max EPA (kgs)	Max sq ft	Max sq M		(in.)	(mm)	A		B		C		(lbs)	(kgs)			
(ft)	(M)							(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lbs)	(kgs)
ALUMINUM PIPE BRACKETS																			
4	1.2	1	40	18	0.9	0.08	RBACWH4X1.25	1-1/4	32	45	1143	18-9/16	217	8-1/4	210	3.5	1.6		
6	1.8	1	35	16	0.7	0.07	RBACWH6X1.25	1-1/4	32	69	1753	24-1/16	611	8-1/4	210	4.5	2.0		
2.5	0.8	1	90	41	2.3	0.21	RBACWH2.5X2	2	51	30	762	15-1/8	384	8-1/4	210	3.5	1.6		
4	1.2	1	70	32	1.8	0.17	RBACWH4X2	2	51	45	1143	18-3/8	467	8-1/4	210	4.5	2.0		
6	1.8	1	50	23	1.4	0.13	RBACWH6X2	2	51	69	1753	24	610	8-1/4	210	6.0	2.7		
6	1.8	2	80	36	1.4	0.13	RBAGWH6X2	2	51	69	1753	24	610	21	533	7.5	3.4		
8	2.4	2	60	27	0.7	0.07	RBAGWH8X2	2	51	93	2362	29-5/8	752	23	584	9.5	4.3		
8	2.4	3	70	32	1.4	0.13	RBADWH8X2	2	51	93	2362	29-5/8	752	23	584	12.5	5.7		
10	3.0	3	50	23	0.9	0.08	RBADWH10X2	2	51	117	2972	35-1/4	895	25	635	14.5	6.6		
12	3.7	3	40	18	0.7	0.07	RBADWH12X2	2	51	141	3581	40-7/8	1038	27	686	16.5	7.5		
GALVANIZED STEEL PIPE BRACKETS																			
2.5	0.8	1	90	41	2.3	0.21	RBSCWH2.5X1.25GV	1-1/4	32	30	762	15-1/4	387	8-1/4	210	7.5	3.4		
4	1.2	1	70	32	1.8	0.17	RBSCWH4X1.25GV	1-1/4	32	45	1143	18-7/16	468	8-1/4	210	10.0	4.5		
6	1.8	1	45	21	1.4	0.13	RBSCWH6X1.25GV	1-1/4	32	69	1753	24-1/16	357	8-1/4	210	14.0	6.3		
2.5	0.8	1	90	41	2.8	0.26	RBSCWH2.5X2GV	2	51	30	762	15-1/8	384	8-1/4	210	11.0	5.0		
4	1.2	1	90	41	2.3	0.21	RBSCWH4X2GV	2	51	45	1143	18-3/8	467	8-1/4	210	15.5	7.0		
6	1.8	1	70	32	2.0	0.19	RBSCWH6X2GV	2	51	69	1753	24	610	8-1/4	210	21.0	9.5		
8	2.4	1	45	20	1.4	0.13	RBSCWH8X2GV	2	51	93	2362	29-5/8	752	8-1/4	210	27.5	12.5		
10	3.0	2	60	27	1.2	0.11	RBSGWH10X2GV	2	51	117	2972	35-1/4	895	25	635	37.5	17.0		
12	3.7	2	50	23	0.7	0.07	RBSGWH12X2GV	2	51	141	3581	40-3/8	1026	27	686	45.0	20.4		
14	4.3	3	40	18	0.7	0.07	RBSDWH14X2GV	2	51	165	4191	46-1/2	1181	30	762	58.5	26.5		
16	4.9	3	35	16	0.7	0.07	RBSDWH16X2GV	2	51	189	4801	52-1/8	1324	33	838	66.0	29.9		
4	1.2	NOTE	90	41	2.3	0.21	RBSPWH4X2GV	2	51	45	1143	18-3/8	467	8-1/4	210	16.0	7.3		
ALUMINUM TAPERED ELLIPTICAL BRACKETS																			
4	1.2	4	55	25	1.6	0.15	RBATWH4X2	2	51	42	1067	16	406	4-5/8	117	6.0	2.7		
6	1.8	4	53	24	1.6	0.15	RBATWH6X2	2	51	66	1676	24	610	4-3/4	121	10.0	4.5		
8	2.4	4	53	24	1.2	0.11	RBATWH8X2	2	51	90	2286	30	762	6-1/8	156	14.0	6.3		
10	3.0	4	44	20	1.2	0.11	RBATWH10X2	2	51	114	2896	30	762	7	178	17.0	7.7		
4	1.2	NOTE	60	27	1.6	0.15	RBAPWH4X2	2	51	48	1219	30	762	15	381	9.0	4.1		

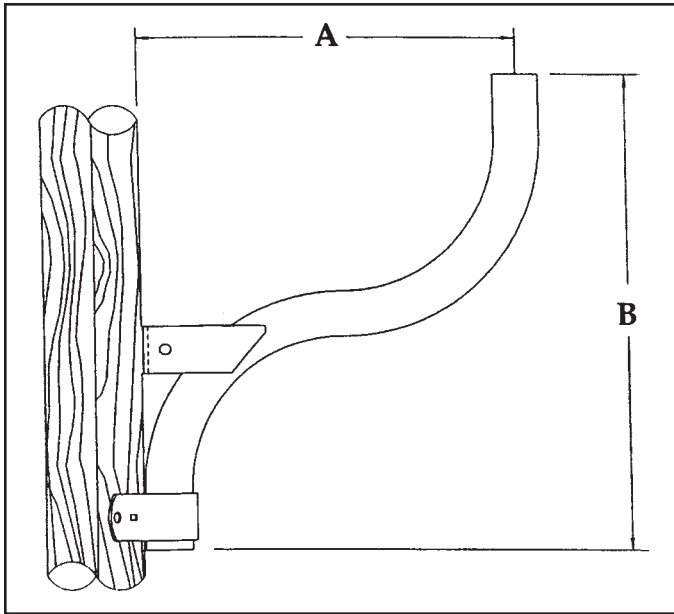
NOTE: Bracket has a flat plate for wall mounting. For hole sizes and location of holes in plate, consult factory.

GE Lighting Systems, Inc.

www.gelighting.com

MOUNTING ACCESSORIES

SINGLE AND DOUBLE FLOODLIGHT BRACKETS



STEEL

Ordering Number	Pipe Size	A	B	WT/LBS
SF-18P	2"	18"	23"	15
SF-07P	2"	7"	20"	11

TENON REDUCER BRACKETS FOR POLE TOP MOUNTING (FIG. 1)

- Shipped with mounting hardware assembled
- Red primer painted (Standard)

Ordering Number	A OD (in.)	B ID (in.)	C (in.)	D (in.)	Weight (lbs)
TR-30-2P	2-3/8	3-1/4	6-1/4	4	8
TR-35-2P	2-3/8	3-13/16	6-1/4	4	10
TR-40-2P	2-3/8	4-1/4	6-1/4	4	11
TR-45-2P	3	4-1/4	6-1/4	4	12

NOTE: For hot dip galvanized, substitute "G" for "P".

REMOVABLE TENON ADAPTER FOR SQUARE STEEL POLES (FIG. 2)

- Mounting hardware not included
- Red primer painted or hot dip galvanized

Ordering Number	A (in.)	B (in.)	C (in.)	Weight (lbs)
RTASQ-4-2P	2-3/8	3	13-3/4	7
RTASQ-4-2G	2-3/8	3	13-3/4	8
RTASQ-5-2P	2-3/8	4	13-3/4	8
RTASQ-5-2G	2-3/8	4	13-3/4	9
RTASQ-6-2P	2-3/8	5	13-3/4	17
RTASQ-6-2G	2-3/8	5	13-3/4	19

DOUBLE RIGHT ANGLE BRACKET (FIG. 3)

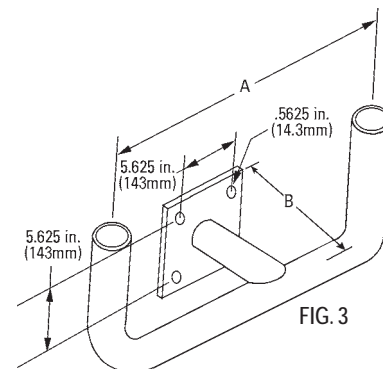
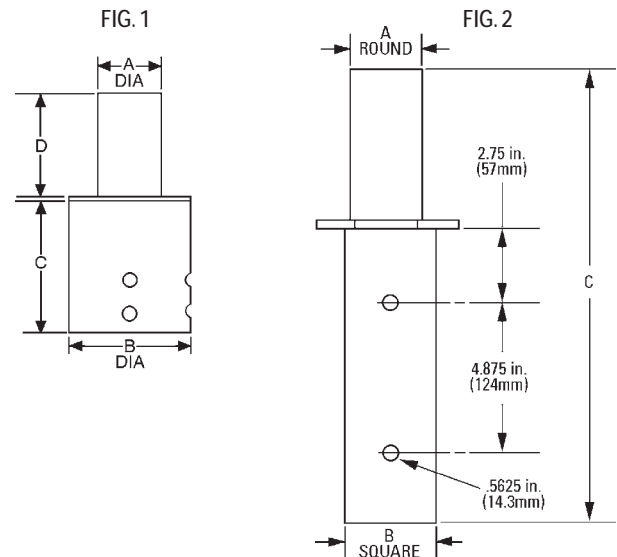
- Red primer painted

Ordering Number	A (in.)	B (in.)	Weight (lbs)
DRAB-P	30	8-1/2	22

WOOD POLE MOUNTING

Single Floodlight Bracket For Wood Pole Mounting

- Most items in stock for immediate shipment
- Mounting hardware not included
- Finish: Primer
- For hot dip galvanized, substitute "G" in place of "P"



MOUNTING ACCESSORIES

VERTICAL TENON BRACKET (FIG. 4)

- Mounting hardware not included
- Red primer painted

Ordering Number	A (in.)	B (in.)	Weight (lbs)
VT2-4P	2-3/8	4	5

NOTE: For hot dip galvanized, substitute "G" for "P".

RIGHT ANGLE BRACKET FOR SQUARE STEEL POLE MOUNTING (FIG. 5)

- Mounting hardware not included
- Red primer painted

Ordering Number	Pole Size (in.)	A (in.)	B (in.)	Weight (lbs)
RABX-4P	4	12	13	8
RABX-5P	5	12	13	8
RABX-6P	6	12	13	9

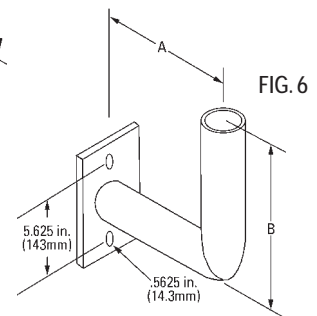
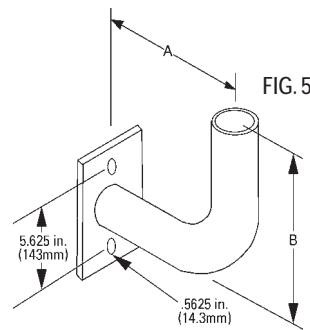
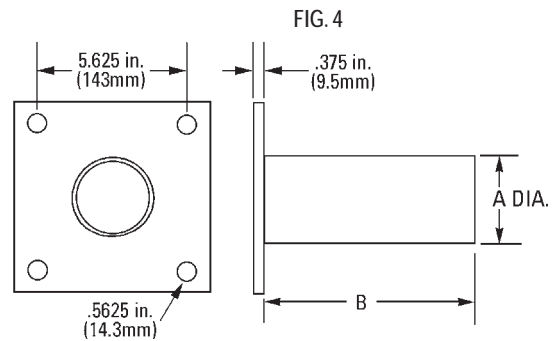
NOTE: For hot dip galvanized, substitute "G" for "P".

RIGHT ANGLE BRACKET FOR SQUARE STEEL POLE MOUNTING (FIG. 6)

- Mounting hardware not included
- Red primer painted

Ordering Number	Pole Size (in.)	A (in.)	B (in.)	Weight (lbs)
RABHX-4P	4	8-1/2	8	10
RABHX-5P	5	8-1/2	8	10
RABHX-6P	6	8-1/2	8	11
RABHX-14-4P	4	14-1/2	8	12
RABHX-14-5P	5	14-1/2	8	12
RABHX-14-6P	6	14-1/2	8	13

NOTE: For hot dip galvanized, substitute "G" for "P".



Technical

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imagination at work

TECHNICAL

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TECHNICAL DATA INDEX

THIS SECTION PROVIDES INFORMATION AND TECHNICAL DATA THAT CAN BE OF HELP WHEN YOU ARE CHOOSING OR APPLYING A GE ENERGY-EFFICIENT LIGHTING SYSTEM.

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DECORATIVE PAINT FINISHES

STANDARD DECORATIVE COLORS

GE Lighting Systems offers an array of Standard Decorative Colors and Special Decorative Colors as optional paint finishes for indoor and outdoor fixtures. Base coat is always gray or dark bronze electrocoat paint finish on all surfaces, inside and out, for maximum protection against corrosion.

CUSTOM COLORS

With over 180 different colors available through GE Lighting Systems, the preferred RAL method is utilized. Initially developed in Europe, this color matching system provides consistent, long-lasting color choices to suit any lighting need.

THERMOSET POLYESTER POWDER COAT SPECIFICATIONS

TEST	PROCEDURE
Impact	ASTM D2794
Hardness	ASTM D3363
Flexibility	ASTM D522
Adhesion	ASTM D3359
Salt Fog	ASTM B117, D714
Humidity	ASTM D2247
Weatherometer	ASTM D3361
Color	ASTM D2264

DECORATIVE PAINT FINISHES APPLIED TO CAST ALUMINUM PARTS

- **Standard Decorative Colors:** The white and black colors are electrostatically applied polyester powder. The dark bronze is an acrylic electrocoat finish.
- **Special Decorative Colors:** The charcoal gray (27) is a polyester powder finish. All other special decorative colors are an acrylic overspray.

PROPERTIES OF ALL GE LIGHTING SYSTEMS PAINT FINISHES

- Attractive appearance
- Color retention
- Corrosion and abrasion resistance
- Durability
- Weatherability
- Impact resistance
- Uniform coating
- Superior adhesion

BASE COAT, GRAY OR DARK BRONZE

At GE Lighting Systems, we finish all die-cast aluminum parts with an electrocoat of gray or dark bronze acrylic paint. Electrocoating is a dip process in which paint particles are suspended in water and then attracted to metal surfaces by means of electrophoresis. All inside and outside surfaces are uniformly coated, even irregular shapes. The paint is then cured in an oven (thermoset).

ORDERING

- **Standard Decorative Colors:** White, dark bronze, or black available on specific luminaires. Contact factory for pricing.
- **Special Decorative Colors:** Available upon request. Contact factory for pricing.

In addition to these standard and 188 RAL colors, GE Lighting Systems can match any federal paint number. Minimum order 20 fixtures with pricing dependent on quantity. Contact factory for pricing.

ALGLAS® FINISH ON REFLECTORS

1. Chemical Composition: The ALGLAS coating is a thin, transparent, flexible coating of very high quality, heat-cured glass which has been chemically bonded to an aluminum reflector surface.

2. Surface Smoothness: Surfaces of ALGLAS, Alzak† and prismatic glass were compared using a profilometer to measure smoothness. The traces of Alzak and prismatic glass revealed significantly more light scattering, rippling and roughness than did the ALGLAS trace. Electron microscope observations confirmed this finding.

3. Coating Continuity: ALGLAS coating is continuous and pinhole free. Complete immersion of the reflector in the silicate solution insures uniform coating of all surfaces.

4. Cleanability: ALGLAS finish is smoother than pressed glass and readily lends itself to thorough cleaning with a standard detergent and water.

5. Durability and Safety: ALGLAS is a high quality glass coating that is chemically inert, giving it the chemical durability of plate glass. Reflectors coated with ALGLAS are lightweight and unbreakable, as opposed to heavy conventional prismatic glass reflectors that are breakable and potentially dangerous.

6. Resistance to Chemical Attack: The ALGLAS finish is superior to the Alzak finish and comparable to borosilicate glass in resistance to chemical attack (table shows partial list of reagents tested).

7. Optical Performance: Outstanding smoothness of the ALGLAS finish results in optimum reflector specularly and the high light transmission of the unique coating results in maximum reflector efficiency. ALGLAS-coated reflectors can be uniformly produced on precision tooling in contrast to the production of pressed glass reflectors where tool degradation, with time, causes imperfections in the prismatic glass surfaces.

8. Resistance to Corrosive Environments: ALGLAS-coated samples have remained bright and specular after 2500 hours in salt fog while Alzak-finish samples lost most of their specularity after the standard 500 hour ASTM test. ALGLAS finish also showed superior seacoast weathering characteristics over a seven-year period.

RESISTANCE TO CHEMICAL ATTACK

CHEMICAL REAGENTS	REFLECTOR SURFACES		
	ALGLAS	BORO-SILICATE GLASS	ALZAK
ACIDS			
Hydrochloric	N	N	A
Sulfuric	N	N	A
Nitric	N	N	A
Hydrofluoric	AV	AV	AV
BASES			
Sodium Hydroxide	AS	AS	AV
Hydroxylamine	N	N	AVS
SALTS			
Sodium Chloride	N	N	A
GASES			
SO ₂	N	N	AS
NO ₂	N	N	AS

A = Attacks; AV = Attacks Vigorously; AS = Attacks Slowly; AVS = Attacks Very Slowly; N = No Effect

ADVANTAGES OF OPTICAL FILTERING SYSTEMS

Laboratory tests indicate that a **well-designed luminaire which incorporates an absorptive filter**—activated charcoal—helps keep light reduction due to internal contaminants to an average of **1% per year**. Conversely, the average, well-designed **non-filtered** luminaire in service today accumulates contaminants on reflector surfaces that can depreciate light output at a rate in the order of **4-5% per year**.

Outdoors, the light loss due to contaminants on the outside of the refractor are minor. Under normal outdoor conditions the cleaning action of wind and rain tend to keep this loss in the range of 1-2%.

However, there can be a drastic reduction in light output due to contaminants within the optical assembly of a non-filtered luminaire, either indoors or outdoors.

- Even under ideal cleaning conditions and using the best known cleaning materials, contamination on a reflector is extremely difficult to remove once it is "baked on."
- In the field it is impossible to restore a reflector to its original condition due to permanent damage imparted during cleaning.
- A light, thin film of accumulation can cause a significant loss in light output.

Contaminants which affect light control and reduce efficiency, besides dirt particles of varying sizes, are vapors and gases which either corrode the optical control surfaces or deposit films that are subsequently baked on by the lamp heat. Chemical analysis of typical contaminants removed from reflector surfaces under tests included unburned hydrocarbons, nitrogen dioxide and sulfur dioxide, all of which exhibit a tendency to bond to the surface of a specular reflector. This deposit on the reflector surface is the largest contributing factor in the degradation of light output.

Two means of filtering optical assemblies are commonly used: activated charcoal and dacron felt. Both can be effective in keeping particulates or solids from entering such assemblies. However,

removal of the molecular species (hydro-carbons, nitrogen oxide, nitrogen dioxide, and sulfur dioxide) is not effectively accomplished with dacron felt filters. These vapors, however **will** absorb on the **activated charcoal**, thereby reducing their concentration as the air breathes into the optical assembly.

Gaseous contaminants inside the luminaire present a serious problem because ordinary cleaning methods often fail to remove these deposits, which then become permanent if left on the reflector too long.

Simply providing a filter in a luminaire is not the only answer to optical assembly cleanliness. The luminaire design and quality must be such that the system is sealed to optimize the amount of air that flows into the optical assembly through the filter. This means that any leak areas must be held within certain specified limits.

SEALED-FILTERED LUMINAIRE

The objective of a filtered unit is to maximize the resistance of air flow into the optical assembly through all locations **except** in the filtering area. The real advantage of an effectively filtered luminaire over a sealed unit becomes apparent on analysis of a unit that has developed a leak.

The effect of a small leak, which may be just a pinhole, is quite different in a sealed-filtered unit than in the non-filtered but sealed unit. **The filter creates a low resistance flow path in parallel with any leaks in the luminaire.**

The volume of air "breathed" in and out by the filtered unit will be the same as for the sealed but leaking unit. However, only that portion of the flow not going through the filter will cause depreciation in the light output.

ADVANTAGES OF OPTICAL FILTERING SYSTEMS (Continued)

The portions of the air flow which go through the filter, and the leaks depend inversely on their relative flow restrictions, much the same as current flow through parallel electrical resistors.

For example, if the resistance to the flow of the leak were 20 times that of the filter, less than five percent of the air breathed in enters through the leak. This means that a filtered luminaire would require 21 times as long to draw in as much contaminated air as a sealed, but non-filtered unit with an equal sized leak.

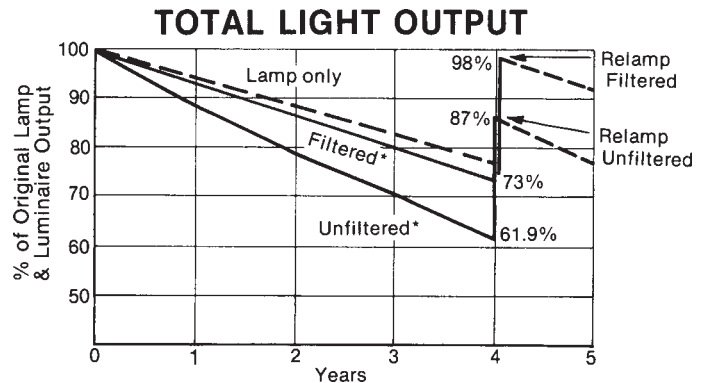
FILTERED VS. NON-FILTERED COMPARISON

The effect of a filter on total light output can best be shown in the Total Light Output graph. **Lamp lumen depreciation** (dotted line) is taken to be approximately 6% per year. **Optical assembly depreciation** is 5% per year for a non-filtered luminaire versus 1% per year for a filtered luminaire. **Total light output** of the luminaire for each year is then the **product** of both **lamp lumen depreciation** and the **optical assembly depreciation** factors.

At the end of an assumed four-year relamping interval, a new lamp is installed and the refractor is wiped inside and out with a dry cloth, thereby bringing the combined efficiency significantly up in both cases—but never to the original (100%) value.

Not only does the filtered luminaire deliver more light at the end of the four year period (73% more), but at the time of relamping and cleaning the unit is nearly restored to its original condition. The non-filtered luminaire can only recover 87% of its original light output.

Projecting these curves with subsequent relamping periods every four years shows that at the 20th year the non-filtered luminaire would be delivering only 37.8% of the original light output.



FILTERED LUMINAIRE

Wipe Every Four Years

	Year	Lamp Lumen Deprec. 6%/Yr.	Optical Assembly Deprec. 1%/Yr.	Total Light Output %
	0	100	100	100
	1	94	99	93.1
	2	88	98	86.2
	3	82	97	79.5
	4	76	96	73.0
RELAMP	4	100	98*	98.0
	5	94	97	91.2
	6	88	96	84.5
	7	82	95	77.9
	8	76	94	71.4
RELAMP	8	100	96*	96.0
	9	94	95	89.3
	10	88	94	82.7
	11	82	93	76.3
	12	76	92	69.9
RELAMP	12	100	94*	94.0
	13	94	93	87.4
	14	88	92	81.0
	15	82	91	74.6
	16	76	90.1	68.5
RELAMP	16	100	92.1*	92.1
	17	94	91.2	85.7
	18	88	90.3	79.5
	19	82	89.4	73.3
	20	76	88.5	67.3

* Assume 2% gain from wiping outside and inside refractor at relamping. (Derived from actual test data.)

NON-FILTERED LUMINAIRE

Wipe Every Four Years

	Year	Lamp Lumen Deprec. 6%/Yr.	Optical Assembly Deprec. 1%/Yr.	Total Light Output %
	0	100	100	100
	1	94	95.0	89.3
	2	88	90.2	79.4
	3	82	85.7	70.3
	4	76	81.4	61.9
RELAMP	4	100	87.0*	87.0
	5	94	82.7	77.7
	6	88	78.6	69.2
	7	82	74.7	61.3
	8	76	71.0	54.0
RELAMP	8	100	76.6*	76.6
	9	94	72.8	68.4
	10	88	69.2	60.9
	11	82	65.7	53.9
	12	76	62.4	47.4
RELAMP	12	100	68.0*	68.0
	13	94	64.6	60.7
	14	88	61.4	45.0
	15	82	58.3	47.8
	16	76	55.4	42.1
RELAMP	16	100	61.0*	61.0
	17	94	58.0	54.5
	18	88	55.1	48.5
	19	82	52.3	42.9
	20	76	49.7	37.8

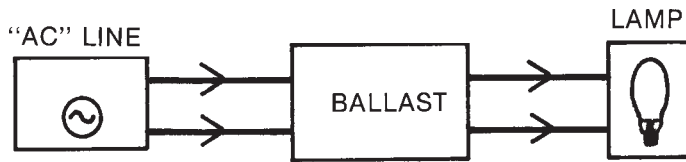
* Assume 5.6% gain from wiping outside and inside refractor at relamping. (Derived from actual test data.)

BALLASTS FOR HID LIGHTING

NOTE: See pages T-8 through T-15 for Ballast Electrical Data and for Ordering Number Logic for each HPS, metal halide and mercury ballast type.

LIGHTING SYSTEMS CHARACTERISTICS

GE Lighting Systems operate high intensity discharge (HID) lamps: mercury, metal halide, and high pressure sodium (HPS). In these systems the ballast is an interface.



THE BALLAST HAS THESE FUNCTIONS

1. Start and stabilize the lamp
2. Control lamp wattage as line voltage varies

Mercury (or mercury vapor) lamps are the oldest and most mature of the three types. They have long lives, but are only slightly more efficient than incandescent lamps in terms of maintained efficiency over lamp life. The radiant energy from the arc of a clear mercury lamp is generated in four discrete visible spectral lines that produce an unattractive rendition of object colors and skin tones. Therefore, most mercury lamps today use coatings of chemical phosphors on their glass outer wall to modify and improve color rendering.

Metal halide lamps use sodium in their arc tubes to give them comparatively high light output. The arc tubes also have other metals or chemicals mixed with the sodium to balance and improve color. In fact, these lamps have become the standard for lighting sports for TV. Their lives are shorter than those of mercury lamps; but, they are significantly more efficient.

High pressure sodium (HPS) lamps generate light with a sodium (primarily) arc discharge. This gives them the highest luminous efficacy (lumens of light per watt of energy used) of these three lamps (over twice that of mercury). Their average rated life is similar to that of mercury lamps.

All three HID lamps require supplemental electromagnetic and/or electronic circuitry (normally called a "ballast") to start and stabilize the arc discharge and to condition the external power supply to the lamp's specific electrical requirements. The selection of a ballast type depends on where it is to be used. Mercury and metal halide lamps change little in operating characteristics over life and ballast operation remains fairly constant. But HPS lamps change operating characteristics dynamically over life. Following is an explanation of general operating characteristics of HPS ballasts followed by a tabular listing of typical electrical data of different ballast wattages and types for all three HID lamps.

KEYS TO SELECTING HPS BALLAST

The high pressure sodium lamp, unlike metal halide and mercury vapor, has changing electrical characteristics over its life. For instance, lamp operating voltage can change as much as 60% over lamp life. Thus, the key to good system performance is ballast operating characteristics **throughout the life** of the lamp.

Ignoring the different HPS performance characteristics can:

- Result in more energy use and increased operating costs
- Severely shorten lamp life
- Significantly add to system's maintenance costs
- Produce lower than desired light levels
- Increase wiring and circuit breaker installation costs
- Result in lamp cycling when voltage dips occur

There are three basic electromagnetic HPS ballast types:

Non-Regulating Reactor Lag High Reactance Auto Transformer Reactor	Lead-Type Regulators CWA-Constant Wattage Auto-Regulating or Auto-Regulator CWI-Constant Wattage Isolated Winding	Lag-Type Regulators Magnetic Regulators Regulated Lag
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NOTE: A Lag-Type (Magnetic) Regulator Ballast is an isolated three-section core and coil, including a tertiary winding. A capacitor is always connected across this tertiary winding, not in series with the lamp. A CWI type high pressure sodium ballast (although isolated winding) does not provide characteristics of lamp regulation, power factor, dip tolerances, etc. equivalent to those of a magnetic regulator.

The key factors in selecting the right HPS ballast must involve the system (lamp and ballast) changes that occur over normal lamp life as presented in this table.

BALLAST TYPE			
	Non-Regulating (Reactor, Lag)	Lead-Type Regulator, Auto-Regulator (CWA, CWI)	Lag-Type Regulator Magnetic Regulator
LINE VOLTAGE VARIATION	±5%	±10%	±10%
BALLAST LOSSES	20% to 50% less than Lag-Type Regulator	10% to 40% less than Lag-Type Regulator	-
POWER FACTOR	90%+ to 65%	90%+ to 65%	90%+
VOLTAGE DIP TOLERANCE	15% to 7%	50% to 10%	55% to 25%
LAMP WATTAGE REGULATION	2.5% for each 1% change of line voltage	1.5% for each 1% change of line voltage	0.8% for each 1% change of line voltage
All ballasts have a 6-month operating capability with cycling lamp			

- **LINE VOLTAGE VARIATION**—The line voltage limits within which a ballast will operate a lamp to meet a lamp manufacturer's specifications. Non-regulating ballasts will typically tolerate only a ±5% variation in line voltage, while regulating type ballasts will tolerate ±10% changes.

Starting problems can occur with non-regulating ballasts when the line voltage drops below 95% of nominal.

BALLAST TYPES AND OPERATING CHARACTERISTICS (HPS ONLY)

- **LINE INPUT WATTAGE** – The sum of the lamp wattage and ballast losses.

- **LAMP WATTAGE** – The wattage delivered to the lamp by the ballast. This value is measured in the laboratory under controlled test conditions in which a lamp is selected for nominal lamp voltage and the ballast is operated at nominal line voltage.

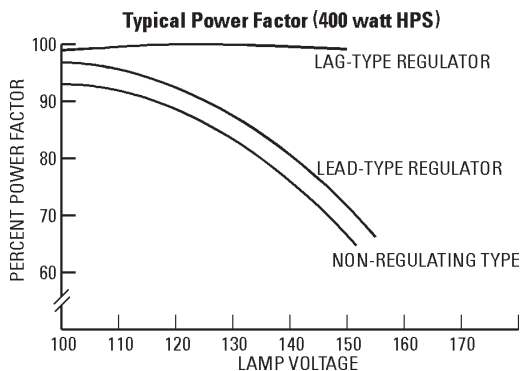
- **BALLAST LOSSES** – Line input watts minus lamp watts equal ballast losses. Ballast losses represent the energy consumed by the ballast to operate the lamp. Standard industry practice is to measure and publish ballast losses without the luminaire. This practice has been followed because no two fixtures are alike in construction and component location or operate at the same temperature.

The amount of energy consumed is dependent on the type of ballast selected, its design, construction, and materials composition, and operating ambient temperature. A non-regulating ballast can be designed to produce minimum losses at a specific line voltage. If the **incoming supply is different, an additional transformer** must be used and **energy consumption increases substantially**. Regulating ballast designs trade off losses for other desirable features such as lamp wattage and line voltage regulation, dip tolerance, stable power factor and lower fusing currents. As a result, since regulating ballasts are being asked to do more work, these ballasts have the higher losses.

- **POWER FACTOR (PF)** – The ratio of (line wattage to line volts X amps), expressed as a percent. A high power factor (HPF) ballast must have a power factor of at least 90%. Anything less is considered normal power factor (NPF). NPF designs normally range from 40-60%.

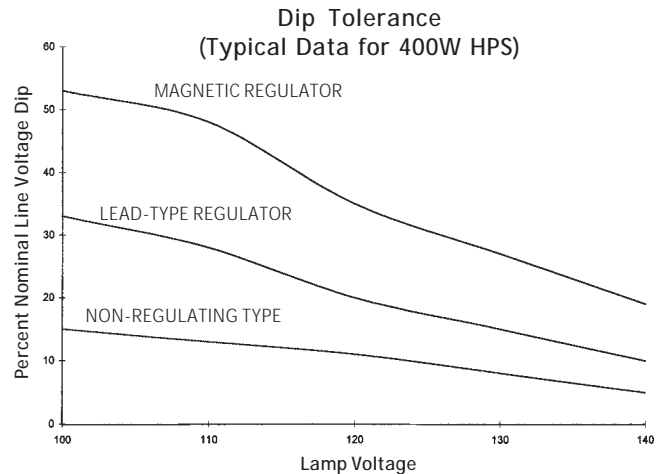
An NPF ballast draws about **twice the operating line current** of an HPF design and may require larger conductors, switches, breakers or distribution transformers for the same lighting load. Where an **NPF lighting load adversely affects** overall power factor, **energy rates may be significantly increased**.

A lag-type regulating ballast will have a power factor greater than 90% throughout the rated life of the lamp regardless of line voltage or lamp aging. A lead-type regulating ballast will initially have at least 90% PF but may **drop as low as 65%** due to lamp aging. It is possible for HPF non-regulating ballasts to drop below 90% as lamps and capacitors age.



- **VOLTAGE DIP TOLERANCE** – The ability of a ballast to operate a lamp during voltage drops. The dip tolerance published is measured in accordance with ANSI C82.6.9 Extinction Voltage Test.

Lamp voltage rise is a normal operating characteristic of high pressure sodium lamps as they age. As aging occurs, dip tolerance deteriorates. Some ballasts are more susceptible than others. Refer to ballast electrical data and the following diagram for comparisons.



- **LINE CURRENT** – On regulating types, the line current as the lamp starts is less than the final operating current, so that circuit breaker ratings can be based strictly on the operating current values. For non-regulating ballasts, the line starting current or open circuit current may be considerably higher than the final operating value, so circuit breakers and photoelectric control switches must be sized to accommodate this higher current. (See notes on page 367 for fusing practices.)

- **LAMP WATTAGE REGULATION** – The ability of a ballast to control lamp wattage as the incoming line voltage varies.

Line voltage variation can be caused by fluctuations in supply from the power company. Public utility commissions normally permit the utility company $\pm 6\%$ line voltage variation. This allows them to respond to excessive peak demands such as summer air conditioning loads or winter fuel shortages.

Line voltage can also vary because of the length of the wiring run or conductor size used in an installation. Long runs produce voltage drops.

Non-Regulating ballasts produce large changes in light output as line voltage changes. A 1% line voltage change will cause a 2.5% light output change. Lead-type regulating ballasts are designed for $\pm 10\%$ line voltage variation and a 1% change in line voltage will produce a 1.5% change in lamp wattage. Lag type regulators are the best at controlling lamp light output. Each 1% change in line voltage produces only a 0.8% change in lamp wattage.

- **TOLERANCE TO ABNORMAL OR LAMP END-OF-LIFE OPERATING CONDITIONS** – refers to ballast and ignitor operations following a lamp open or short circuit failure or when a high pressure sodium lamp reaches the end of life and starts to cycle.

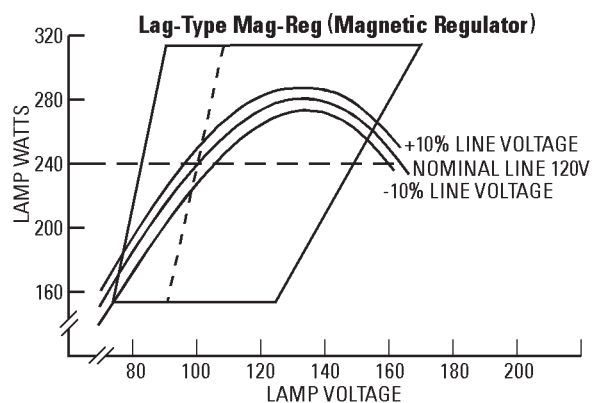
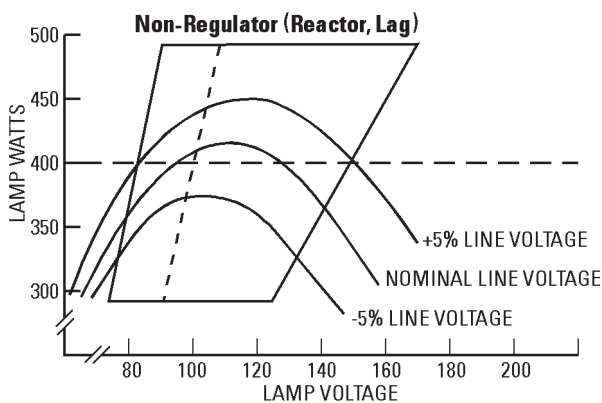
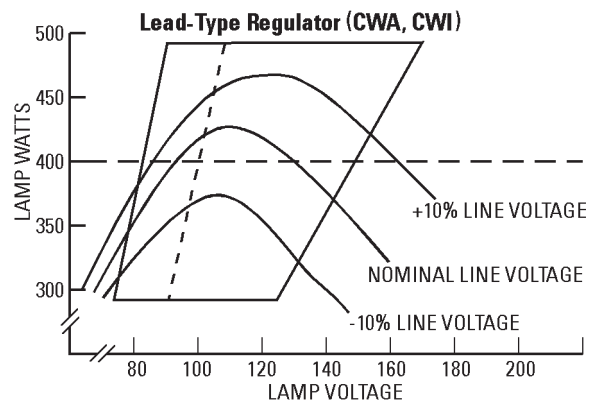
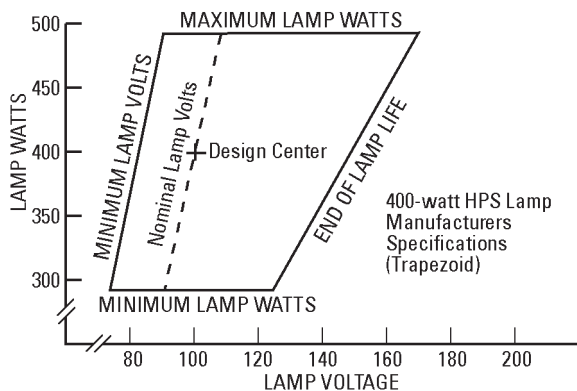
Regardless of whether the ballast is a regulating or non-regulating design, an HPS system (which includes the electromagnetic core and coil, the ignitor and the capacitor) should be capable of a **6 months** extended period of operation in any of these three luminaire abnormal operating conditions. All GE Lighting Systems ballasts are designed and tested for these conditions.

- **HOW TO TELL IF THE BALLAST WILL OPERATE PROPERLY** – Each high pressure sodium ballast design has its own "fingerprint", the volt-watt trace.

Lamp manufacturers and ANSI provide ballast designers with specifications that establish a ballast's operating characteristics necessary for the lamp to achieve published performance.

All HID ballasts meet all ANSI standards.

BALLAST TYPES AND OPERATING CHARACTERISTICS (HPS ONLY)



Due to normal lamp manufacturing tolerance, a new HPS lamp may vary from its nominal design voltage as much as 15%. Initial lamp lumen output will vary by approximately the same amount. Remember also, that as the HPS lamp ages, its lamp voltage increases until the ballast can no longer sustain lamp operation and end of life cycling begins. The ability of the ballast to operate the lamp at higher voltages is referred to as the lamp drop-out point. The lamp

drop-out point should be higher than the end-of-life lamp voltage in order to allow for line voltage dips and fixture effects.

The relationship between lamp wattage and lamp voltage that occurs as the lamps age while being operated by a ballast produces the **volt-watt trace "fingerprint."**

PULSE START METAL HALIDE SYSTEMS

The arc tube shape, fill material and starting method for some new metal halide lamps are dramatically different, with resulting improvements in performance and color stability. With some new metal halide lamps such as the "E" lamp, a pulse ignitor outside of the lamp provides the high voltage pulse needed for starting. The pulse start metal halide lamp is offered as a "P" light source choice for selected products. GE offers pulse ignitor magnetic regulator and autoregulator ballasts that can be used for a number of fixtures. See product pages for lamp and ballast availability and the following pages for ballast electrical data.

The new metal halide ballast/lamp/fixture combinations offer:

- Higher initial lumens than traditional systems
- Hot restart time of approximately four minutes, rather than ten to fifteen minutes
- 50% longer lamp life than traditional systems
- Higher delivered maintained lumens than traditional systems
- Improved color stability than traditional systems

BALLAST ELECTRICAL DATA

NOTES

The letter in the box before each ballast description corresponds to the Ballast Type in the Ordering Number Logic for each product. For example, **M** is the Ordering Number Logic for magnetic regulator ballasts. See product pages for availability of each ballast type.

Ballast choices other than those described on these pages also appear on product pages. They are:

- B** = System 3™ Bi-Level Control autoregulator (see Indoor Lighting Section page I-92)
- G** = the same ballast as **M** except **G** has a grounded socket shell
- K** = Hot Restart (restrikes the lamp instantly after a power interruption; see Indoor Lighting Section page I-118)
- W** = Whisper Quiet™ autoregulator (for situations where a quieter ballast is required). Contact factory for ballast electrical data.

* For outdoor products the line watts are 481.

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

*** Kilowatts of constant-current transformer capacity per ballast recommended for proper operation.

WARNINGS

Size branch circuits to accommodate line-operating amperes or line starting amperes—whichever is larger.

The data listed is typical of that obtained when a ballast is tested under laboratory conditions as a separate component. When these components are encapsulated, or mounted in luminaires, the values listed below will vary depending upon the enclosure being used, lamp position and lamp variations. The component value method of testing is used so that uniform testing procedures may be followed on all ballasts.

1. Input voltage variations over the full range of allowable percentage range will vary lamp wattage as shown in the "ELECTRICAL BALLAST CIRCUIT AND OPERATING CHARACTERISTICS" section on pages T-14 and T-15.
2. The voltage of high pressure sodium lamps changes with lamp life causing corresponding changes in lamp watts, so that the regulation cannot be stated in the same terms as for other HID lamp types. All HPS ballast types, over the full range of "allowable line voltage variation," control lamp watts within the prescribed limits of operation throughout the rated life of the lamp, as defined by trapezoidal limits in ANSI Standards for High Pressure Sodium lamps.
3. Mercury reactor ballasts listed in wattages 100 to 400 may be used at 50Hz as follows: 240 volts (60Hz) at 220 volts (50Hz). Reactors used on 220 volts are only adequate for lamp starting to 0°F.
4. All HID ballasts will provide satisfactory lamp starting to -20°F (-40°F for HPS) minimum over the recommended line-voltage variation.
5. Fusing: Not recommended as protection for individual HID ballast. If specified, fuse(s) should be rated 3 times maximum current. Fusing may cause nuisance interruptions. The fusing of a reactor type ballast should be avoided.
6. Ballast Losses = Line Watts - Lamp Watts

□ = Ballast Type in Ordering Number Logic table. See individual product pages.

HPS BALLAST ELECTRICAL DATA—SINGLE VOLTAGE, 60Hz

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts
M HPS BALLAST MAGNETIC REGULATOR ALLOWABLE LINE VOLTAGE VARIATION: ±10%				
S-51	400	120	4.0	481 *
		208	2.3	479 *
		240	2.0	477
		277	1.7	478
		347	1.4	478
		480	1.0	477 *
S-67	310	120	3.3	388
		208	1.9	388
		240	1.7	387
		277	1.6	385
		480	0.8	371
S-50	250	120	2.7	324
		208	1.5	306
		240	1.4	315
		277	1.2	322
		347	0.9	304
		480	0.7	315
S-66	200	120	2.1	252
		208	1.2	248
		240	1.1	251
		277	0.9	247
		480	0.5	251
S-55	150	120	1.6	197
		208	0.9	196
		240	0.8	195
		277	0.7	196
		480	0.5	195
S-54	100	120	1.2	137
		208	0.7	136
		240	0.6	136
		277	0.5	136
		480	0.3	137
S-62	70	120	0.8	99
		208	0.5	93
		240	0.4	98
		277	0.3	93
		347	0.3	99
		480	0.2	98
L SUPER LOW LOSS BALLAST HPS BALLAST – AUTOREGULATOR (CWA) ALLOWABLE LINE VOLTAGE VARIATION: ±10%				
S-51	400	120	3.9	442
		208	2.3	455
		240	2.0	451
		277	1.7	453
		480	1.0	455
S-50	250	120	2.4	288
		208	1.4	289
		240	1.2	290
		277	1.1	289
		347	0.9	291
		480	0.6	293

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts
A HPS BALLAST—AUTO-REGULATOR (LEAD TYPE) – CWA ALLOWABLE LINE VOLTAGE VARIATION: ±10%				
S-52	1000	120	9.7	1105
		208	5.5	1103
		240	4.9	1105
		277	4.2	1104
		347	3.5	1105
		480	2.5	1109
S-111	750	120	7.1	839
		208	4.1	839
		277	3.1	841
		347	2.5	844
		480	1.8	847
S-51	400	120	3.9	469
		208	2.3	476
		240	2.0	478
		277	1.7	468
		347	1.4	467
		480	1.0	469
S-67	310	120	3.0	360
		208	1.8	362
		240	1.5	362
		277	1.3	361
		480	0.8	363
S-50	250	120	2.5	303
		208	1.5	304
		240	1.3	305
		277	1.1	305
		480	0.7	307
S-66	200	120	2.0	238
		208	1.2	239
		240	1.0	240
		277	0.9	240
		480	0.6	239
S-55	150	120	1.6	186
		208	0.9	185
		240	0.8	183
		277	0.7	183
		480	0.4	185
S-54	100	120	1.2	123
		208	0.7	120
		240	0.6	120
		277	0.5	119
		480	0.3	121
S-62	70	120	0.8	89
		208	0.5	88
		240	0.4	87
		277	0.3	87
		347	0.3	88
		480	0.2	88

* For outdoor products the line watts are 481.

□ = Ballast Type in Ordering Number Logic table. See individual product pages.

HPS BALLAST ELECTRICAL DATA—SINGLE VOLTAGE, 60Hz (Continued)

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
□ HPS BALLAST-REGULATOR (LEAD TYPE) – CWI ALLOWABLE LINE VOLTAGE VARIATION: ±10%				
S-50	250	120	2.5	300
		208	1.5	300
		240	1.3	300
		277	1.1	293
		347	0.9	299
S-66	200	120	2.0	236
		208	1.2	244
		240	1.1	240
		277	0.9	244
		347	0.7	242
S-55	150	120	1.6	189
		240	0.8	189
S-54	100	120	1.1	131
		240	0.6	130
S-62	70	120	0.8	94
		240	0.5	94
□ HPS BALLAST-REACTOR TYPE (HIGH POWER FACTOR REACTOR OR REACTOR AUTO-TRANSFORMER) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-52	1000	480	4.2	1067
S-51	400	208	3.8	438
		240	4.1	440
S-67	310	208	2.8	345
		240	3.1	340
S-50	250	208	2.3	281
		240	2.4	298
S-66	200	208	1.8	223
		240	2.1	231
S-55	150	120	2.4	173
S-54	100	120	1.7	117
S-62	70	120	1.3	86
S-68	50	120	0.9	61
S-76	35	120	0.8	40
□ HPS BALLAST-REACTOR TYPE (NORMAL POWER FACTOR REACTOR AUTO-TRANSFORMER) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-52	1000	480	6.6	1067
S-51	400	208	6.6	438
		240	6.2	440
S-67	310	208	5.0	347
		240	4.6	338
S-50	250	208	4.0	281
		240	3.8	298
S-66	200	208	3.2	223
		240	3.2	231
S-55	150	120	4.4	172
S-54	100	120	3.2	117
S-62	70	120	2.0	85
S-68	50	120	1.5	60
S-76	35	120	1.0	40

** Note: For □ or □ type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
□ HPS BALLAST-REACTOR TYPE (HIGH POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-50	250	120	4.8	300
S-66	200	120	4.1	235
S-55	150	208	1.6	182
		240	1.4	184
		277	1.2	184
		347	1.0	185
		480	0.7	193
S-54	100	208	1.2	126
		240	1.0	125
		277	0.9	126
		347	0.8	120
		480	0.5	129
S-62	70	208	0.8	91
		240	0.7	88
		277	0.6	89
		347	0.5	85
		480	0.4	93
S-68	50	208	0.6	63
		240	0.5	64
		277	0.4	65
		347	0.4	63
□ HPS BALLAST-REACTOR TYPE (NORMAL POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-51	400	120	12.2	455
S-50	250	120	8.0	288
S-66	200	120	6.8	231
S-55	150	208	2.8	182
		240	2.3	184
		277	2.1	184
		347	1.6	185
S-54	100	208	1.8	126
		240	1.8	125
		277	1.5	126
		347	1.2	120
		480	0.7	129
S-62	70	208	1.6	91
		240	1.4	89
		277	1.2	89
		347	1.0	85
		480	0.7	93
S-68	50	208	1.1	63
		240	1.0	64
		277	0.9	65
□ HPS BALLAST – SERIES TYPE				
ANSI Lamp Type	Rated Lamp Watts	Maximum Line Amps	Line Watts	Loading Factor (KW)***
S-50	250	6.6	285	0.96
S-66	200	6.6	233	0.75
S-55	150	6.6	174	0.57
S-54	100	6.6	121	0.40
S-62	70	6.6	85	0.28
S-68	50	6.6	64	0.22

** Note: For □ or □ type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

*** Kilowatts of constant-current transformer capacity per ballast recommended for proper operation.

BALLAST ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

HPS—MULTIVOLT, 60Hz					HPS BALLAST- REACTOR TYPE (HIGH POWER FACTOR LAG)				
ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts	ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
M HPS BALLAST-REGULATOR (LAG TYPE) - MAGNETIC REGULATOR ALLOWABLE LINE VOLTAGE VARIATION: ±10%					H HPS BALLAST- REACTOR TYPE (HIGH POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-51	400	120 208 240 277	4.0 2.3 2.0 1.7	481 479 477 478	S-111	750	120 208 240 277	13.7 7.0 6.9 5.9	840 840 835 838
S-67	310	120 208 240 277	3.3 1.9 1.6 1.4	388 388 385 386	S-55	150	120 208 240 277	2.7 1.6 1.4 1.2	182 184 182 184
S-50	250	120 208 240 277	2.6 1.5 1.3 1.1	316 314 312 312	S-54	100	120 208 240 277	2.0 1.2 1.0 0.9	126 126 125 126
S-66	200	120 208 240 277	2.1 1.2 1.1 0.9	249 248 248 247	S-62	70	120 208 240 277	1.4 0.8 0.7 0.6	88 91 89 89
P HPS BALLAST - REGULATOR (LEAD TYPE) - CWI ALLOWABLE LINE VOLTAGE VARIATION: ±10%					N HPS BALLAST - REACTOR TYPE (NORMAL POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-50	250	120 208 240 277	2.6 1.5 1.3 1.1	300 300 300 293	S-55	150	120 208 240 277	4.7 2.8 2.3 2.1	182 184 182 184
S-66	200	120 208 240 277	2.1 1.2 1.0 0.9	244 244 244 244	S-54	100	120 208 240 277	3.1 1.8 1.6 1.4	126 126 125 126
A HPS BALLAST - AUTO-REGULATOR (LEAD TYPE) - CWA ALLOWABLE LINE VOLTAGE VARIATION: ±10%					S-62				
S-52	1000	120 208 240 277	9.7 5.5 4.9 4.2	1105 1103 1105 1104	70	120 208 240 277	2.8 1.6 1.4 1.2	88 91 89 89	
S-51	400	120 208 240 277	4.0 2.3 2.0 1.8	473 476 475 475	S-68	50	120 208 240 277	1.9 1.1 1.0 0.9	63 63 64 65
S-50	250	120 208 240 277	2.6 1.5 1.3 1.1	306 304 308 308					
S-66	200	120 208 240 277	2.0 1.2 1.0 0.9	239 239 239 239					
S-55	150	120 208 240 277	1.6 0.9 0.8 0.7	186 185 183 184					
S-54	100	120 208 240 277	1.0 0.6 0.5 0.4	121 120 120 119					
S-62	70	120 208 240 277	0.8 0.5 0.4 0.3	88 88 87 87					

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

BALLAST ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

HPS BALLAST ELECTRICAL DATA—MULTIVOLT, 50 Hz					HPS BALLAST ELECTRICAL DATA—MULTIVOLT, 50 Hz				
ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts	ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
M HPS BALLAST-REGULATOR (LAG TYPE) – MAGNETIC REGULATOR ALLOWABLE LINE VOLTAGE VARIATION: ±10%					H HPS BALLAST- REACTOR TYPE (HIGH POWER FACTOR LAG OR REACTOR) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-51	400	220 240 380	2.2 2.0 1.3	482 485 481	S-51	400	220 230 240	2.2 2.1 2.0	441 441 441
S-50	250	220 240 380	1.4 1.3 0.8	307 306 307	S-50	250	220 230 240	1.4 1.3 1.2	276 276 276
S-55	150	220 230 240	0.9 0.9 0.9	204 204 204	S-56	150 (100V)	220 230 240	0.9 0.8 0.8	174 174 174
S-56	150 (100V)	220	0.9	202	S-55	150	220 230 240	0.9 0.8 0.8	188 188 184
S-62	70	220	0.5	98	S-54	100	220 230 240	0.6 0.6 0.6	125 125 125
	70 (90V)	220	0.5	104		100 (100V)	220 230 240	0.6 0.6 0.6	114 114 114
A HPS BALLAST – AUTO-REGULATOR (LEAD TYPE) – CWA ALLOWABLE LINE VOLTAGE VARIATION: ±10%					N HPS BALLAST – REACTOR TYPE (NORMAL POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
S-52	1000	220 230 240 380	5.2 5.0 4.8 3.0	1093 1093 1092 1105	S-51	400	220 230 240	4.7 4.7 4.7	439 442 443
S-51	400	220 240 230 380	2.2 2.0 2.1 1.2	469 472 474 463	S-50	250	220 240	3.0 3.0	276 278
S-50	250	220 230 240	1.4 1.3 1.3	299 299 300	S-66	200	240	2.3	221
S-66	200	220 230 240	1.1 1.1 1.0	242 236 235	S-55	150	240	1.8	185
					S-56	150 (100V)	220 230 240	1.9 1.8 1.9	174 174 174
						70 (90V)	220 230 240	1.0 1.0 1.0	84 83 83
						50 (100V)	220 230 240	0.7 0.8 0.7	57 58 58

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

BALLAST ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

METAL HALIDE AND MERCURY BALLAST ELECTRICAL DATA—SINGLE VOLTAGE, 60 Hz

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts
A METAL HALIDE BALLAST— AUTO-REGULATOR TYPE (PEAK LEAD) CWA				
M-134	2000	208	11.3	2121
		240	9.7	2115
		277	8.5	2113
		347	6.7	2122
		480	4.9	2130
M-48	1500	120	14.4	1648
		208	8.5	1640
		240	7.1	1643
		277	6.2	1642
		347	5.2	1641
M-47 & H-36	1000	120	9.0	1077
		208	5.7	1085
		240	5.0	1089
		277	3.9	1078
		347	3.5	1077
M-59 & H-33	400	120	4.0	450
		208	2.3	460
		240	2.0	456
		277	1.7	459
		347	1.4	463
M-58 & H-37	250	120	2.6	294
		208	1.5	297
		240	1.3	291
		277	1.1	290
		347	0.9	293
M-57 or H-39	175	120	1.8	206
		208	1.0	208
		240	0.9	208
		277	0.8	208
		347	0.6	209
M-59	400	120	3.9	439
		208	2.3	444
		240	2.0	447
		277	1.7	440
		347	1.4	448
M-58	250	120	2.6	282
		208	1.5	278
		240	1.3	278
		277	1.1	280
		347	0.9	282
S-66	200	120	2.1	244
		208	1.2	244
		240	1.0	244
		277	0.9	244
L SUPER LOW LOSS BALLAST METAL HALIDE BALLAST – AUTO-REGULATOR TYPE (PEAK LEAD) CWA				
S MERCURY BALLAST – SERIES TYPE				
ANSI Lamp Type	Watts	Maximum Line Amps	Line Watts	Loading Factor (KW)***
H-36	1000	6.6	1070	1.55
H-33	400	6.6	445	0.65
H-37	250	6.6	285	0.47
H-39	175	6.6	207	0.40
H-38	100	6.6	125	0.30

*** Kilowatts of constant-current transformer capacity per ballast recommended for proper operation.

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
H METAL HALIDE BALLAST— REACTOR TYPE (HIGH POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
M-102	150	120	4.0	178
		208	2.3	177
		240	1.8	175
		277	1.7	175
		347	1.2	180
M-90	100	120	2.0	122
		208	1.1	122
		240	1.0	122
		277	0.8	122
		347	0.7	121
M-98	70	120	2.0	95
		208	1.2	93
		240	1.0	94
		277	0.9	98
		347	0.7	88
M-90	100	120	0.7	125
		208	0.7	125
		240	0.7	125
		277	0.7	125
		347	0.7	125
C MERCURY BALLAST – REGULATOR TYPE (CWI)				
H-36	1000	480	2.5	1095
H-35	700	480	1.8	780
H-33	400	120	4.0	477
		208	2.3	472
		240	2.0	472
		277	1.7	470
		480	1.0	472
H-37	250	120	2.8	307
		208	1.6	307
		240	1.4	307
		277	1.2	307
		480	1.1	296
H-39	175	120	1.7	211
		208	1.0	210
		240	0.9	210
		277	0.7	210
		480	0.4	212
H-38	100	120	1.1	130
		208	0.6	129
		240	0.6	129
		277	0.5	127
		480	0.3	129
H MERCURY BALLAST – REACTOR TYPE (HPF)				
H-36	1000	480	3.3	1116
H-35	700	480	2.4	736
H-33	400	240	2.9	435
H-37	250	240	1.7	264
H-39	175	240	1.8	194
H-38	100	240	0.9	111
N MERCURY BALLAST – REACTOR TYPE (HPF)				
H-33	400	240	5.1	435
H-37	250	240	4.5	264
H-39	175	240	2.3	194
H-38	100	240	1.6	111
N MERCURY BALLAST – REACTOR TYPE (HPF)				
H-33	400	120	11.2	452
H-37	250	120	7.6	286
H-39	175	120	5.2	206
H-38	100	120	3.8	118

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

BALLAST ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

PULSE METAL HALIDE BALLAST ELECTRICAL DATA—SINGLE VOLTAGE, 60 Hz					PULSE METAL HALIDE BALLAST ELECTRICAL DATA—SINGLE VOLTAGE, 60 Hz					
ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts	ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts	
A PULSE METAL HALIDE BALLAST—AUTO-REGULATOR TYPE (CWA)					M PULSE METAL HALIDE BALLAST—MAGNETIC REGULATOR TYPE					
M-149	750	120	6.9	820	M-128	400	120	3.9	459	
		208	4.1	831			208	2.3	467	
		240	3.5	826			240	2.0	469	
		277	3.0	822			277	1.7	470	
		347	2.4	832			347	1.4	469	
		480	1.8	834			480	1.0	469	
M-135	400	120	4.1	454	Venture M-138	250	120	2.4	289	
		208	2.3	459			208	1.4	291	
		240	2.1	460			240	1.2	290	
		277	1.8	460			277	1.0	289	
		347	1.4	463			347	0.9	291	
		480	1.0	467			480	0.6	294	
M-131	350	120	3.4	400	H PULSE METAL HALIDE BALLAST—REACTOR TYPE (HPF)					
		208	2.0	400	M-135	400	277	2.4	424	
		240	1.7	400	M-131	350	277	2.1	373	
		277	1.5	400	M-132	320	277	1.8	340	
		347	1.2	400	H PULSE METAL HALIDE BALLAST—REACTOR TYPE (HIGH POWER FACTOR LAG)					
		480	0.9	400	M-102	150	120	4.0	178	
M-132	320	120	3.3	368	M-90	100	120	2.0	122	
		208	1.9	368			208	1.1	122	
		240	1.6	368			240	1.0	122	
		277	1.4	368			277	0.8	122	
		347	1.1	368			347	0.7	121	
		480	0.8	368			480	0.7	125	
M-138	250	120	2.5	286	M-98	70	120	2.0	95	
		208	1.5	290			208	1.1	93	
		240	1.3	288			240	1.0	94	
		277	1.1	288			277	0.9	98	
		347	0.9	291			347	0.7	88	
		480	0.6	291			480	0.5	92	
M-137	175	120	1.8	206	** Note: For H or N type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.					
		208	1.0	209						
		240	0.9	207						
		277	0.8	212						
		347	0.6	211						
		480	0.5	211						
M-102	150	120	1.7	190						
		277	0.7	194						

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

BALLAST ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

METAL HALIDE, PULSE MH, AND MERCURY BALLAST ELECTRICAL DATA—MULTIVOLT, 60 Hz					METAL HALIDE (OR PULSE MH) BALLAST—REACTOR TYPE (HIGH POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps	Input Watts	ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps**	Input Watts
A METAL HALIDE BALLAST— AUTO-REGULATOR TYPE (PEAK LEAD) CWA					H METAL HALIDE (OR PULSE MH) BALLAST—REACTOR TYPE (HIGH POWER FACTOR LAG) ALLOWABLE LINE VOLTAGE VARIATION: ±5%				
M-48	1500	120 208 240 277	14.3 8.7 7.2 6.1	1648 1640 1635 1631	M-90	100	120 208 240 277	2.0 1.1 1.0 0.8	122 122 122 122
M-47	1000	120 208 240 277	9.9 5.7 5.0 4.3	1102 1085 1089 1087	M-98	70	120 208 240 277	2.0 1.2 1.1 0.9	95 93 94 98
M-59	400	120 208 240 277	4.1 2.4 2.0 1.8	454 459 460 460	C MERCURY BALLAST – REGULATOR TYPE (CWJ)				
M-58	250	120 208 240 277	2.6 1.5 1.3 1.1	294 297 291 292	H-33	400	120 208 240 277	4.0 2.3 2.0 1.7	476 472 472 470
M-57	175	120 208 240 277	1.8 1.0 0.9 0.8	207 208 208 208	H-37	250	120 208 240 277	2.8 1.6 1.4 1.2	307 307 307 307
A PULSE MH BALLAST— AUTO-REGULATOR TYPE (PEAK LEAD) CWA					H-39	175	120 208 240 277	1.7 1.0 0.9 0.7	211 210 210 210
M-135	400	120 208 240 277	4.1 2.3 2.0 1.8	454 459 460 461	H-38	100	120 208 240 277	1.1 0.6 0.6 0.5	130 129 129 127
M-131	350	120 208 240 277	3.4 2.0 1.7 1.5	400 400 400 400					
M-132	320	120 208 240 277	3.3 1.9 1.7 1.4	368 368 368 368					
M-138	250	120 208 240 277	2.5 1.5 1.3 1.1	286 290 288 288					

** Note: For **H** or **N** type systems the maximum current is for the open circuit or starting condition. Normal run current will be lower.

SNAPDRIVE™ ELECTRICAL DATA

☐ = Ballast Type in Ordering Number Logic table. See individual product pages.

SMALL SNAPDRIVE ELECTRICAL DATA

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[H] PMH BALLAST- HIGH POWER FACTOR LAG (HX-HPF)				
M-90	100	120	2.6	129
		208	1.5	129
		240	1.3	129
		277	1.2	129
M-102	150	120	3.7	185
		208	2.1	185
		240	1.8	185
		277	1.6	185
[A] MH BALLAST- AUTO-REGULATOR TYPE (CWA)				
M-57	175	120	1.8	210
		208	1.1	210
		240	0.9	210
		277	0.8	210
		480	0.5	210

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[A] PMH BALLAST- AUTO-REGULATOR TYPE (CWA)				
M-137	175	120	1.8	210
		208	1.1	210
		240	0.9	210
		277	0.8	210
[H] HPS BALLAST- HIGH POWER FACTOR LAG (HX-HPF)				
S-54	100	120	2.2	130
		208	1.3	130
		240	1.9	130
		277	0.9	130
S-55	150	120	2.8	188
		208	1.6	188
		240	1.4	188
		277	1.3	188

MEDIUM SNAPDRIVE ELECTRICAL DATA

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[A] HPS BALLAST- AUTO-REGULATOR TYPE (CWA)				
S-50	250	120	2.6	294
		208	1.5	295
		240	1.3	294
		277	1.1	294
		480	0.7	304
S-51	400	120	4.0	469
		208	2.3	473
		240	2.0	472
		277	1.7	471
		480	1.0	469

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[A] MH/PMH BALLAST- AUTO-REGULATOR TYPE (CWA)				
M-58 M-138	250	120	2.6	294
		208	1.5	296
		240	1.3	294
		277	1.1	295
		480	1.0**	295
M-59 M-135	400	120	4.1	454
		208	2.3	459
		240	2.0	460
		277	1.8	460
		480	1.0	460

LARGE SNAPDRIVE ELECTRICAL DATA

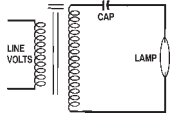
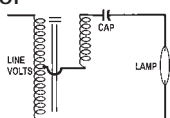
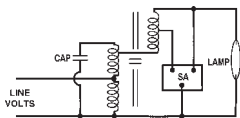
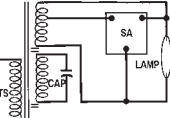
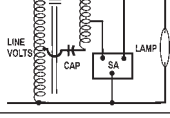
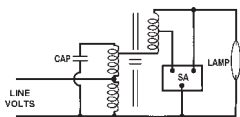
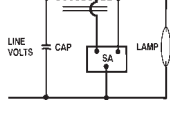
ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[A] PMH BALLAST- AUTO-REGULATOR TYPE (CWA)				
M-149	750	120	6.9	820
		208	4.1	831
		240	3.5	826
		277	3.0	822
		480	1.8	834

ANSI Lamp Type	Rated Lamp Watts	Input Volts	Maximum Input Amps*	Input Watts
[A] MH BALLAST- AUTO-REGULATOR TYPE (CWA)				
M-47	1000	120	9.0	1080
		208	5.2	1080
		240	4.5	1080
		277	3.9	1080
		480	2.2	1080

* For all [H] type ballasts maximum input amps are Open Circuit.

** For this CWA, maximum input current is Open Circuit, run current is 0.7.
Data subject to change without notice.

GENERAL ELECTRIC BALLAST CIRCUITS AND OPERATING CHARACTERISTICS

Lamp Type	Circuit Diagram	Line Volts	% Allowable Line Voltage Variation	Total Lamp Regulation Spread	Power Factor	Starting Current (Variation From Operating Current)	Input Voltage Dip	Ballast Losses	Crest Factor of Lamp Current	Ordering Number Logic
METAL HALIDE	Regulator (CWI) 	Any Voltage	± 10%	11-17%	90% +	Higher	50%	Medium	1.6-1.7	M
	Auto-Regulator (Peak Lead) (CWA) 	Any Voltage	± 10%	20%	90% +	Lower	50 to 40%	Medium	1.6-1.8	A
	Lag 	Any Voltage	± 5%	25%	90%+ HPF	Higher	20%	Low	1.4-1.5	H(HPF)
PULSE METAL HALIDE	Magnetic Regulator (Lag Reg) (Pulse Start) 	Any Voltage	± 10%	11%	90% +	Lower	60%	High	1.5	M
	Auto-Regulator (CWA) (Pulse Start) 	Any Voltage	± 10%	20%	90% +	Lower	50 to 33%	Medium	1.6-1.8	A
	Lag 	Any Voltage	± 5%	25%	90%+ HPF	Higher	20%	Low	1.4-1.5	H(HPF)
	Reactor 	277	± 5%	20%	90%	Higher	30%	Low	1.4-1.5	H(HPF)

GENERAL ELECTRIC BALLAST CIRCUITS AND OPERATING CHARACTERISTICS

Lamp Type	Circuit Diagram	Line Volts	% Allowable Line Voltage Variation	Total Lamp Regulation Spread	Power Factor	Starting Current (Variation From Operating Current)	Input Voltage Dip	Ballast Losses	Crest Factor of Lamp Current	Ordering Number Logic
HIGH PRESSURE SODIUM	Magnetic Regulator (Regulated Lag) 	Any Voltage	± 10%	14-18%	90% +	Lower	55% to 20%	High	1.7	M
	Regulator (CW) (70-750watt) 	Any Voltage	± 10%	20-30%	90% + to 65%	Lower	35% to	Medium	1.6-1.8	P
	Auto-Regulator (CWA) (Peak Lead) 	Any Voltage	± 10%	20-30%	90% + to 65%	Lower	Up to 750w 35% to 10% ----- 1000w 18% to 2%	Medium	1.6-1.8	A
	Reactor 	120 Volt for 35-150 Watt ----- 208 & 240 Volt for 200-400 Watt ----- 480 Volt for 1000 Watt	± 5%	25%	90%+ to 65% HPF ----- 55% to 40% NPF	Higher	15% to 7%	Low	1.4-1.5	H(HPF) ----- N(NPF)
	Lag 	240 & 277 Volt for 50-150 Watt ----- 120 Volt for 200 & 250 Watt	± 5%	25%	90%+ to 65% HPF ----- 50% to 30% NPF	Higher	15% to 7%	Medium	1.4-1.5	H(HPF) ----- N(NPF)
MERCURY	Regulator (CW) 	Any Voltage	± 13%	4%	90% +	Lower	60%	High	1.8-2.0	C
	Auto-Regulator (CWA) 	Any Voltage	± 10%	10%	90% +	Lower	50% to 40%	Medium	1.8-2.0	A
	Reactor 	240 Volt for 100-400 Watt ----- 480 Volt for 700 & 1000 Watt	± 5%	20%	90%+ HPF ----- 60% to 50% NPF	Higher	25%	Low	1.4-1.5	H(HPF) ----- N(NPF)
	Lag 	120 Volt for 100-400 Watt	± 5%	20%	55% to 40%	Higher	25%	Medium	1.4-1.5	H(HPF) ----- N(NPF)

ILLUMINATION RECOMMENDATIONS—INDOOR

The values shown below are from *IESNA LIGHTING HANDBOOK*. These are the upper level recommended from a range of values based on task economics and viewer age. Lower values may be acceptable depending on the actual task and objects involved. All values are presumed to be average, mean over time, on a horizontal plane.

GENERAL APPLICATION	AVG. MAINTAINED FC†
AIRCRAFT MAINTENANCE	
System repair without inspection	75
AIRCRAFT ASSEMBLY	
General Area	100
ARMORIES	20
ASSEMBLY, GENERAL	
Simple	50
Moderately Difficult	100
Difficult	200
AUDITORIUMS	
Social activity	10
Assembly	20
AUTO MANUFACTURING	
Frame assembly	50
Engine and parts fabrication and assembly	75
Machining	75
Final assembly	100
BAKING	50
BREWING	50
CANNING	
Raw grading	50
Sorting	100
Canning	100
CLAY AND CONCRETE	
Grind, filt, kiln	20
Molding, press	50
Rough glazing	100
Fine glazing	200
CLOTHING MANUFACTURING	
Measure, stitch	50
Patterns, trim	100
Pressing	200
Sewing, cutting	500
ELECTRICAL EQUIPMENT	
Impregnating	50
Insulating, coil winding	100
EXHIBITION HALLS	20
EXPLOSIVES MANUFACTURING	50
FORGE SHOPS	100
FOUNDRIES	
Cupola	20
Annealing, cleaning, shakeout	50
Medium core making	100
Large molding	100
Pouring, sorting	100
Fine core making, medium molding	200
Grinding and chipping	200

GENERAL APPLICATION	AVG. MAINTAINED FC†
GARAGES, PARKING	
All areas night	5
General parking	5
Ramps and corners	10
Entrances	50
GLASS MANUFACTURING	
Mix, furnace, lehr, pressing, blowing	20
Grind, cut, silvering	50
Beveling, polishing, fine grinding	100
IRON AND STEEL MANUFACTURING	
Hot Mill General Lighting:	
Mold yard	5
Other general lighting	10
Charge and pour	20
Stripping	20
Mixer building	30
Repair	30
Rolling Mill General:	30
Motor and machine room	30
Other general lighting	30
Pipe, rod and tube	50
Tin plate	50
LOCKER ROOMS	20
MACHINE SHOPS	
Rough	50
Medium	100
Fine	200
MATERIAL HANDLING	50
MEAT PACKING, GENERAL	50
MERCHANDISING, GENERAL	
Low activity	30
Stock rooms	50
Medium activity	75
High activity	100
PAINTING, GENERAL	50
PAINT MANUFACTURING, GENERAL	50
PAPER MANUFACTURING	
Beating, grinding, calendaring	50
Finish, cutting, trimming	100
Machine wet end, reeling	200
PETROCHEMICAL	
Outdoor process	5
Compressor house	20
Extrude and mix	20
Control house	30
Central control	50
PLATING	50

GENERAL APPLICATION	AVG. MAINTAINED FC†
POWER GENERATION PLANTS	
Air and fan floor	10
Boiler platform	10
Coal handling	10
Condenser, evaporator	10
De-aerator, heater floors	10
Precipitators	10
Steam headers, throttles	10
Tunnels, galleries	10
Auxiliary compressor	20
Burner platform	20
Coal pulverizing	20
Screen house	20
Soot, slag blower	20
Turbine,-op floor	50
Turbine building	50
Water treat	50
PRINTING	
Photoengraving, etching, blocking	50
Composing room	100
Presses	100
Color inspection and appraisal	200
REPAIR GARAGES	
Active traffic	20
Write-up	50
Repair, general	100
RUBBER PRODUCTION, TIRES	
Curing, cutting, calendar, banbury	30
Tire and bead building	50
Cutting, inspection	100
SHEET METAL FABRICATION	100
STRUCTURAL FABRICATION	100
TEXTILES	
Dyeing, tinting	50
Yarn manufacturing	50
Yarn preparation	100
Fabric finish	100
Fabric production	200
WAREHOUSING	
Inactive	10
Active, large products	20
Active, small products	50
WELDING, GENERAL	50
WOODWORKING, GENERAL	50
†	All
values are considered to be footcandles maintained and are in terms of "horizontal plane" unless otherwise indicated or obvious. To convert footcandles to lux, multiply footcandles by 10.76.	

INDOOR BILL OF MATERIAL ESTIMATOR

If there is enough time and a computer available, the GE ALADAN™ lighting software can be used to develop a bill of material and a layout for an indoor area. Use INDOOR to obtain a first cut or a simple layout along with a typical point-by-point array. The data derived should be sufficient and accurate enough for most design situations. If a total area array is needed, use EZILLUM to configure the input data. If none of these methods are practical—job site, time constraints, no computer—then use the following Estimator methods to obtain a bill of material and layout sketch by means of the LUMEN METHOD.

LUMEN METHOD

The lumen method estimates the ratio of lamp lumens (in the fixture) to the lamp lumens arriving at a predetermined work plane. The effects of varying room geometry and room surface reflectances may be considered along with system losses such as lamp lumen and dirt depreciation.

SHORTHAND LUMEN METHOD

The shorthand method states that the average maintained quantity of lumens at the work plane will be half the quantity of the new lamp lumens in a new fixture. This method assumes "normal" sized rooms, "normal" surface reflectances, and "normal" dirt conditions. A normal sized room is one in which the distance from the luminaire bottom to the work plane is less than half the smallest room dimension.

Also assumed is that only a conventional high bay or low bay fixture will be used. High bays are used when the fixture bottom to work plane dimension is over 20 feet (6M), low bays when this dimension is less than 25 feet (8M).

The number of fixtures, then, is calculated in this manner:

- (1) Obtain footcandles (FC) from Illumination Recommendations on previous page
- (2) Obtain lamp lumens from Lamp Data in this catalog, or lamp manufacturer's catalog
- (3) Delivered Maintained Lamp Lumens (DMLL)—Rated Lamp Lumens X 0.5
- (4) Number of fixtures =
$$\frac{\text{Room Area (LxW)} \times \text{FC}}{\text{DMLL (from item 3)}}$$

Determine whether the fixture spacing is too wide for the type of fixture that was selected. Spacing should not be more than 1 times the mounting height for high bay and 1.5 times the mounting height for low bay fixtures. Fixture spacing is obtained in the following manner:

- (5) Area per fixture =
$$\frac{\text{Room Area (LxW)}}{\text{Number of fixtures}}$$
- (6) Spacing is the square root of the Area per fixture (from item 5)
If the spacing is too wide, repeat the process. Start with item 3 and use a lower lamp rating.

Stop at this point if only a bill of material is needed and select an appropriate high or low bay fixture from the industrial section of this catalog. If a layout is also required, use the layout method described in "LAYOUT RULES OF THUMB" on page 378.

LONGHAND LUMEN METHOD

This is a method of estimating fixture quantities and spacings for layouts that is more accurate because differences in photometric performance caused by room geometry and system depreciation are taken into account. This allows, for instance, a comparison between conventional high bays and hazardous location fixtures at the same site, or the effects of filtered and non-filtered luminaires.

In the "longhand" method, a room cavity ratio is established for the room one time. This, then, determines the utilization of any fixture type to be considered. When applied to rated lamp lumens, the coefficient of utilization is an indicator of the percentages of lumens arriving at a work plane. Various system depreciation factors are applied to initial lumens to estimate the amount of lumens arriving on the task over time.

The quantity of fixtures is derived from room area times footcandles (lumens per square foot) divided by the amount of average maintained lumens reaching the work plane from each fixture. A bill of material and a layout proceeds from that point.

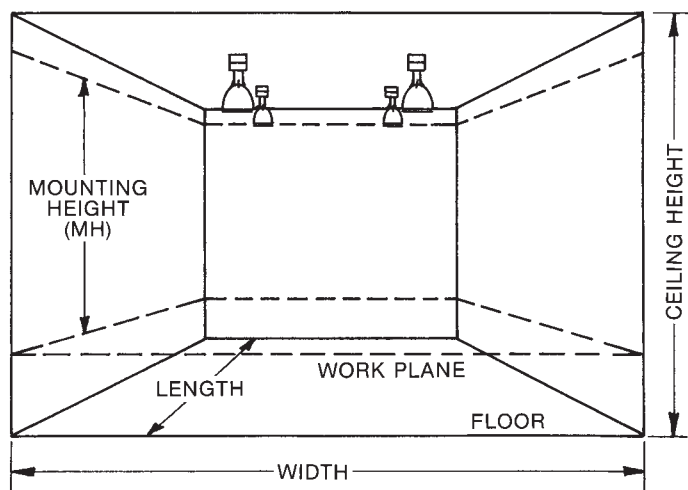
ROOM CAVITY RATIO-RCR

The core idea in the "longhand method" is the calculation of a "Room Cavity Ratio".

The model for a room cavity ratio that accounts for room geometry effects is:

$$\text{RCR} = \frac{(\text{Length} + \text{Width})}{(\text{Length} \times \text{Width})} \times 5 \times \text{Mounting Height (Bottom of fixture to work plane)}$$

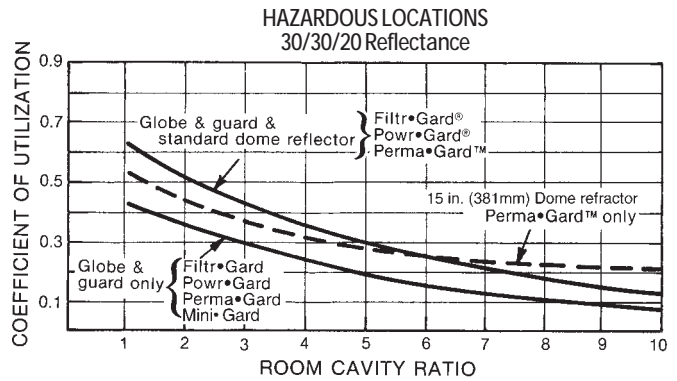
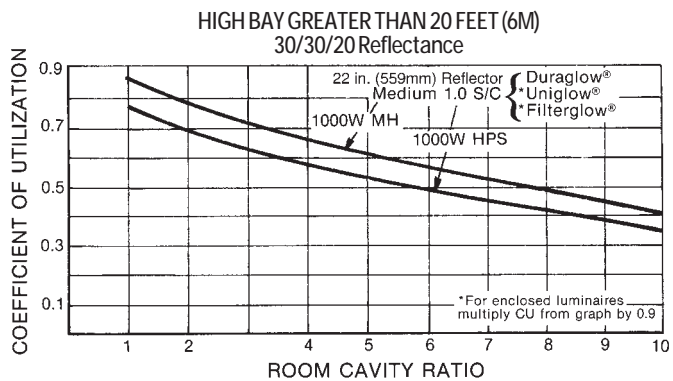
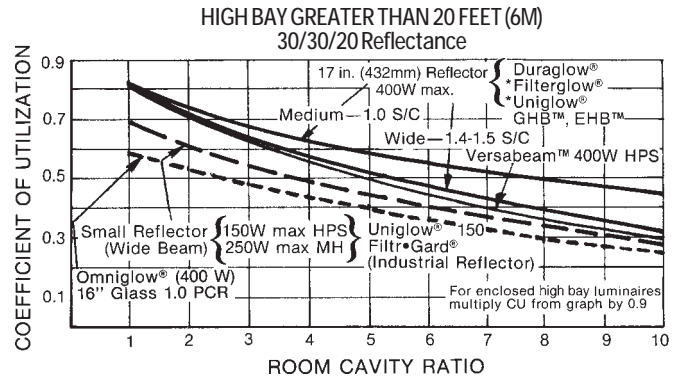
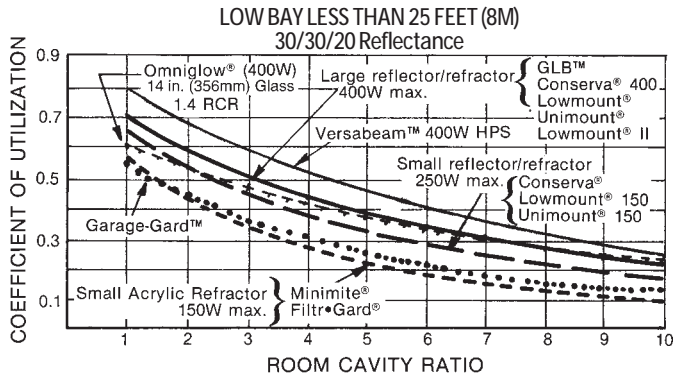
The constant "5" is used to achieve a numerical result ranging from one to ten for the sake of simplicity. The entire model for RCR allows calculations for areas above the fixture plane and below the work plane. This is not done in this version of the lumen method—also for the sake of simplicity. A small loss in accuracy is traded for significantly fewer calculations.



$$\text{ROOM CAVITY RATIO (RCR)} = \frac{\text{LENGTH} + \text{WIDTH}}{\text{LENGTH} \times \text{WIDTH}} \times 5 \times \text{HEIGHT}$$

(Continued on next page)

INDOOR BILL OF MATERIAL ESTIMATOR (Continued)



SELECT LUMINAIRE TYPE

After the RCR is calculated, a fixture type has to be selected in terms of some basic visibility, room geometry or conditions of use issues. In terms of visibility, consider LIGHT DISTRIBUTION AND VISUAL PERFORMANCE where, for the most part, a low bay light distribution pattern is preferred because more fixtures, then, contribute to a given location and this fills in shadows on three dimensional visual tasks.

When high bay fixtures have to be used, socket settings that allow spacing criteria (SC) from 1.4 to 1.6 are better for visibility. When the RCR exceeds 4, a narrower distribution, say 1.0 - 1.2 Spacing Criteria, has better utilization.

Another issue is the LIGHT DISTRIBUTION AND ROOM GEOMETRY where low bay distributions become inefficient for mounting heights above 20 feet (6M) or more specifically, where wall surfaces begin to be a significant portion of the room surface area—usually at RCR=4.

A third issue having to do with CONDITIONS OF USE comes into play where hazardous materials are present. Then a hazardous duty fixture is used for overriding safety reasons.

SELECT A LAMP WATTAGE

A judgment on lamp wattage has to be made as a starting point. Usually 400 and 1000 watt sources work best when light levels exceed 50fc. The 250 to 350 watt units work with levels between 30 and 50 fc. The 175 watt and lower ratings are used at levels below 30 fc.

CU's FROM RCR's

Select the coefficient of utilization (CU) for the intended fixture from the tables above. The data provided is for a room which has 30% ceiling and wall reflectance and a 20% floor reflectance which is typical for most industrial rooms over time. The same utilization is presumed for either high pressure sodium or metal halide lamps. Small (inconsequential) differences will occur with the actual lamp for a specific type of fixture for any given RCR.

LONGHAND CALCULATIONS

To calculate the number of fixtures in this manner:

- (1) Obtain footcandles from Illumination Recommendations.
- (2) Calculate RCR, select luminaire type and lamp wattage, and determine CU using graph shown above.
- (3) Obtain lamp lumens from Lamp Data in this catalog or lamp manufacturer's catalog.
- (4) Calculate Adjusted Lamp Lumens per fixture (ALL)=Lamp Lumens x CU.
- (5) Select Lamp Lumen Depreciation (LLD) from the lamp manufacturer's catalog.
- (6) Select Luminaire Dirt Depreciation (LDD) in terms of INDOOR APPLICATIONS table. (next page)

(Continued on next page)

INDOOR BILL OF MATERIAL ESTIMATOR (Continued)

INDOOR APPLICATIONS			
LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)		
	Light	Medium	Heavy
Enclosed and filtered	0.97	0.93	0.88
Enclosed	0.94	0.86	0.77
Open and ventilated	0.94	0.84	0.74

- (7) Calculate Maintained Lamp Lumens (MLL) = ALLxLLDxLDD
 (8) Calculate number of fixtures = $\frac{\text{Length} \times \text{Width} \times \text{FC}}{\text{Maintained Lamp Lumens}}$
 (9) Calculate Area per fixture needed = $\frac{\text{Length} \times \text{Width}}{\text{Number of fixtures}}$
 (10) Calculate Fixture Spacing = Square Root of Area per Fixture

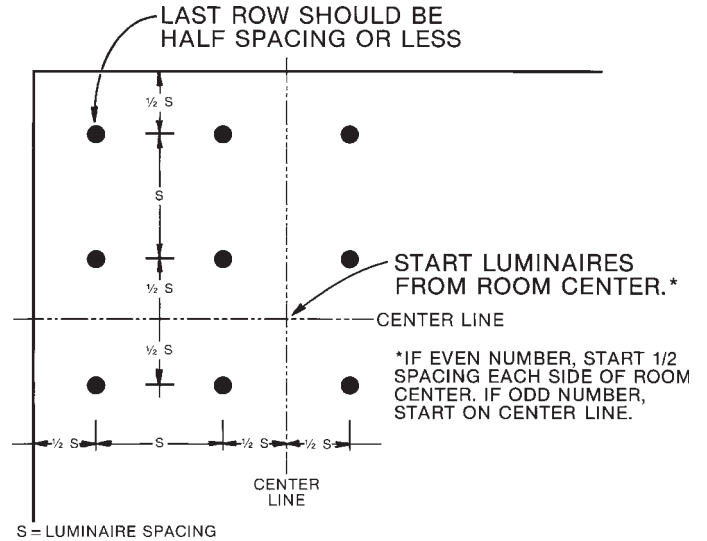
UNIFORMITY TEST

If the spacing between fixtures is greater than 1 mounting height with high bays, 1.5 mounting heights with low bays and 2 mounting heights with hazardous location fixtures, repeat the process with the next lower lamp wattage rating. Mounting height (MH) is the distance between the bottom of the fixture and the work plane.

LAYOUT RULES OF THUMB

Fixtures should be arranged from the center of the area to the outside. A square array is best but a rectangular array will work as long as spacings do not exceed the mounting height limits explained previously.

With an odd quantity of fixture rows or columns, there will be a fixture on the center line. With even quantities, the locations are one half of a spacing off the center line. The closest fixture to a wall should be one half a spacing or less. If a lighted area is involved, such as a functional area, the fixtures should run up to the edge of the area and beyond, if practical.



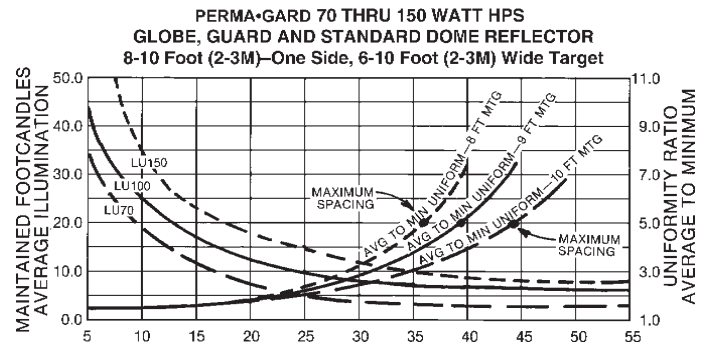
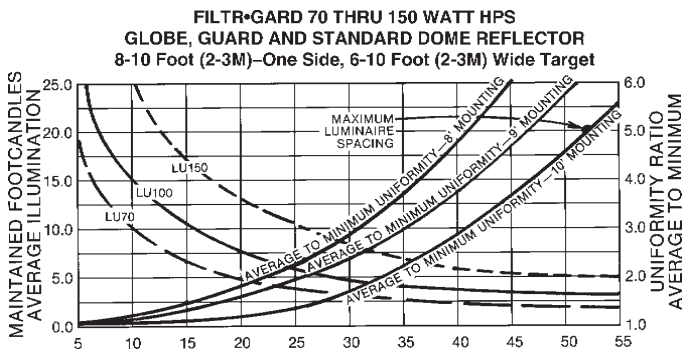
CONVEYORS, WALKWAYS AND TUNNELS

There are certain situations which are long and narrow that do not lend themselves to the assumptions in the lumen method. There, point-by-point calculations from direct photometry are more useful.

Typically these are areas that require the ruggedness and wet location characteristics of the GE Filtr•Gard® luminaire. Sometimes these areas also require the hazardous label the Filtr•Gard luminaire carries. In high corrosion areas, the characteristics of the GE Perma•Gard™ luminaire are needed.

The Perma•Gard luminaire also has a wet location and a hazardous label.

The graphs on the side show the change in average to minimum uniformity and maintained footcandles as the spacings between fixtures change from 5 to 55 feet (2 to 17M). The values shown are for mounting heights ranging from 8 to 10 feet (2 to 3M) and for target widths from 6 to 10 feet (2 to 3M). Luminaires are globe and guard types with standard dome reflectors. Fixtures are mounted in a line at one side of the target area.



WAREHOUSE AISLE LIGHTING QUICK SELECTOR

HORIZONTAL FOOTCANDLES IN AISLES

The tables below provide spacing data for various footcandle levels and fixture mounting heights. The data is for the horizontal plane and it is conservative in that only direct contribution (not inter-reflection) is used.

The lamp wattage rating changes when the maximum practical fixture spacing is reached. To convert from footcandles to lux, multiply footcandles by 10.76.

 =LU 200  =LU 250  =LU 400

VERSABEAM™ LUMINAIRE (HPS Lamp)

Average Maintained Footcandles at Floor Along Aisle (NOTE: FC values can increase 10-12% if stack reflectance values are 30%.)	Mounting Height Above Floor							
	15	20	25	30	35	40	45	50
5					64	55	48	44
10			36	37	57	50	44	40
15		30	30	45	38	33	29	26
20		28	41	34	28	25	22	20
25	24	42	33	27	23	20	17	15
30	25	35	27	22	19	16	14	12
35	22	29	23	19	16	14	12	10
40	19	26	21	17	14	12	10	9
45	17	23	18	15	13	10	9	7
50	15	21	16	13	11	9	8	5

To convert from HPS to Pulse Arc Metal Halide, multipliers are: 400W to 400W=0.75; 250W to 250W=0.60; 250W to 175W=0.50.

GHB® WAREHOUSE LUMINAIRE (2.6 SC, HPS Lamp)

Average Maintained Footcandles at Floor Along Aisle (NOTE: FC values can increase 20-25% if stack reflectance values are 30%.)	Mounting Height Above Floor							
	15	20	25	30	35	40	45	50
5				50	50	50	50	50
10		37	35	28	45	37	35	30
15	28	37	37	37	30	25	24	20
20	27	35	32	25	22	20	17	15
25	20	30	25	22	17	15	14	13
30	18	25	20	17	15	14	13	10
35	30	22	18	15	14	12	10	8
40	25	20	15	13	12	10	8	7
45	22	17	14	12	10	8	7	7
50	20	15	12	11	8	7	5	

To convert from HPS to Pulse Arc Metal Halide, multipliers are: 400W to 400W=0.75; 250W to 250W=0.60; 250W to 175W=0.50.

HIGH BAY INDUSTRIAL LUMINAIRE (1.5 SC, HPS Lamp)

Average Maintained Footcandles at Floor Along Aisle (NOTE: FC values can increase 15-20% if stack reflectance values are 30%.)	Mounting Height Above Floor							
	15	20	25	30	35	40	45	50
5						53	57	51
10			36	38	33	52	46	42
15		29	30	46	40	35	31	28
20		27	22	35	30	27	24	21
25		22	33	28	24	22	19	17
30		19	27	23	20	19	16	14
35		29	24	20	17	15	14	12
40		25	21	18	15	13	12	11
45		23	18	16	13	12	11	9
50		20	16	14	12	11	9	8

To convert from HPS to Pulse Arc Metal Halide, multipliers are: 400W to 400W=0.75; 250W to 250W=0.60; 250W to 175W=0.50.

LOW BAY INDUSTRIAL LUMINAIRE (HPS Lamp)

Average Maintained Footcandles at Floor Along Aisle (NOTE: FC values can increase 20-25% if stack reflectance values are 30%.)	Mounting Height Above Floor							
	15	20	25	30	35	40	45	50
5			45	46	72	62	57	50
10		35	28	42	36	31	28	25
15	24	23	34	28	24	21	19	17
20	23	32	26	22	18	16	14	12
25	18	26	21	17	14	13	10	8
30	28	22	17	14	12	9	7	
35	24	18	15	12	10	8		
40	21	16	13	11	8	6		
45	19	14	12	9	7			
50	17	13	10	8	6			

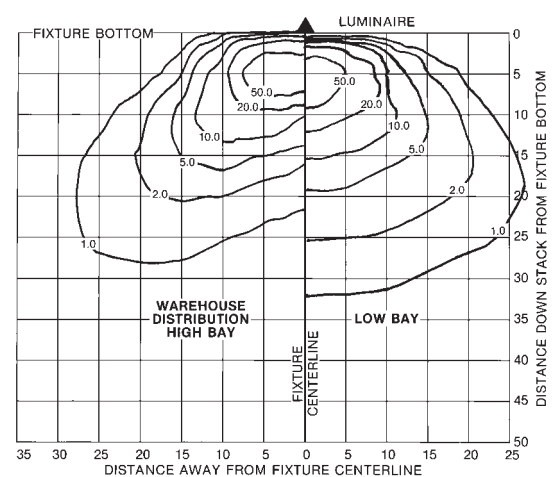
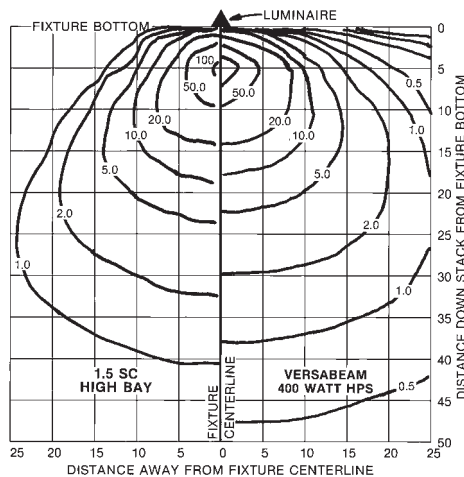
To convert from HPS to Pulse Arc Metal Halide, multipliers are: 400W to 400W=0.75; 250W to 250W=0.60; 250W to 175W=0.50.

STACK VERTICAL

Check the vertical footcandles on the stack by using the isos at the side. This data is based on a 5-foot setback. Multipliers for other setbacks are:

- 3 ft=2.78 7 ft=0.51
- 4 ft=1.56 8 ft=0.39
- 5 ft=1.0 9 ft=0.31
- 6 ft=0.69 10 ft=0.25

Values are for 400 watt HPS. Prorate unit lumens for other ratings. Multiply by 0.75 for metal halide.



ILLUMINATION RECOMMENDATIONS—OUTDOOR

These recommendations for outdoor lighting are for average maintained (mean) illuminance at grade except in the case of roadways where they are average for the end of the lamp life. Except where specifically indicated, the layout and coverage arrangements and footcandle/uniformity graphs on subsequent pages are configured so that reasonable uniformity is obtained with commonly available wide distribution lighting equipment such as a NEMA 5X5 (or wider) floodlight and ANSI Type II, III, IV, and V roadway distributions. The illuminance recommendations herein are extractions from *IESNA LIGHTING HANDBOOK*.

GENERAL APPLICATION	AVERAGE MAINTAINED FOOTCANDLES	
	BRIGHT	DARK
AIRPORTS		
Hanger aprons to approximately 50 feet (15M) out	1.0	
Service aprons to approximately 200 feet (61M)	2.0	
Center of aircraft service (vertical)	5.0	
BUILDING EXTERIOR-SITE AREAS ADJACENT TO		
Active entrances—pedestrian or vehicle	5.0	
Inactive entrances—normally locked	1.0	
Vital locations or structures (security)	5.0	
Building surroundings	1.0	
BUILDING FLOODLIGHTING		
Light Surrounding Surface	5.0	2.0
Medium Gray Surrounding Surface	7.0	3.0
Medium Dark Surrounding Surface	7.0	4.0
Dark Surrounding Surface	10.0	5.0
CENTRAL STATIONS—ELECTRIC UTILITY		
Barge unloading, car dumping	5.0	
Conveyors	2.0	
Storage tanks	1.0	
Storage piles—coal, ash	0.2	
Substation general lighting	2.0	
FLOODLIGHTED SIGNS		
Bright surroundings, light surfaces	50.0	
Bright surroundings, dark surfaces	100.0	
Dark surroundings, light surfaces	20.0	
Dark surroundings, dark surfaces	50.0	
PARKING AREAS		
High activity	5.0	
Medium activity	3.0	
Low activity	1.0	
QUARRIES AND OPEN MINES		
Men and machines	5.0	
ROADWAYS—NON-DEDICATED AND PRIVATE		
High activity	2.0	
Medium activity	1.0	
Low activity	0.5	
SHIPPING—PIERS		
Freight	20.0	
Passengers	20.0	
Surrounding active areas	5.0	
YARDS		
General	5.0	
Prison—general lighting	5.0	
Railroad—general lighting bare yard	1.0	
Storage—inactive	1.0	
Storage—active	20.0	

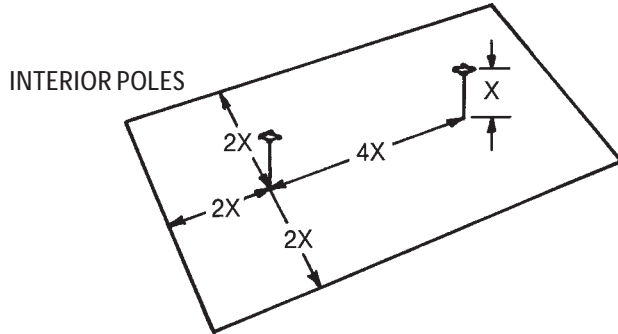
ILLUMINANCE METHOD-RECOMMENDED VALUES						
Road and Pedestrian Conflict Area		Pavement Classification (Minimum Maintained Average Values)			Uniformity Ratio	Veiling Luminance Ratio
Road	Pedestrian Conflict Area	R1 lux/fc	R2 & R3 lux/fc	R4 lux/fc	E_{avg}/E_{min}	L_{vmax}/L_{avg}
Freeway Class A		6.0/0.6	6.0/0.6	8.0/0.8	3.0	0.3
Freeway Class B		4.0/0.4	6.0/0.6	5.0/0.5	3.0	0.3
Expressway	High	10.0/1.0	14.0/1.4	13.0/1.3	3.0	0.3
	Medium	8.0/0.8	12.0/1.2	10.0/1.0	3.0	0.3
	Low	6.0/0.6	9.0/0.9	8.0/0.8	3.0	0.3
Major	High	12.0/1.2	17.0/1.7	15.0/1.5	3.0	0.3
	Medium	9.0/0.9	13.0/1.3	11.0/1.1	3.0	0.3
	Low	6.0/0.6	9.0/0.9	8.0/0.8	3.0	0.3
Collector	High	8.0/0.8	12.0/1.2	10.0/1.0	4.0	0.4
	Medium	6.0/0.6	9.0/0.9	8.0/0.8	4.0	0.4
	Low	4.0/0.4	6.0/0.6	5.0/0.5	4.0	0.4
Local	High	6.0/0.6	9.0/0.9	8.0/0.8	6.0	0.4
	Medium	5.0/0.5	7.0/0.7	6.0/0.6	6.0	0.4
	Low	3.0/0.3	4.0/0.4	4.0/0.4	6.0	0.4

NOTE: Minimum Average FCS refers to average footcandles at end-of-life lamp or group relamping.

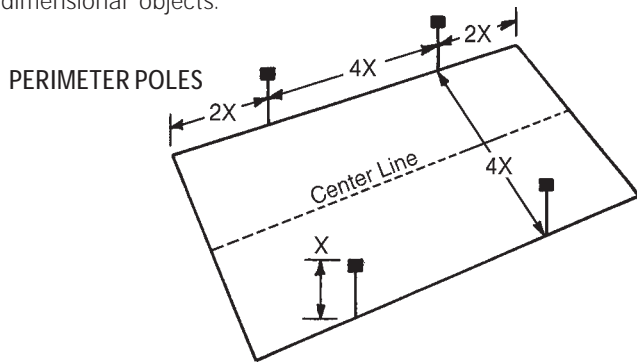
LUMINANCE METHOD-RECOMMENDED VALUES					
Road and Pedestrian Conflict Area		Average Luminance	Uniformity Ratio	Uniformity Ratio	Veiling Luminance Ratio
Road	Pedestrian Conflict Area	L_{avg} (cd/m ²)	L_{avg}/L_{min} (Maximum Allowed)	L_{max}/L_{min} (Maximum Allowed)	L_{vmax}/L_{avg} (Maximum Allowed)
Freeway Class A		0.6	3.5	6.0	0.3
Freeway Class B		0.4	3.5	6.0	0.3
Expressway	High	1.0	3.0	5.0	0.3
	Medium	0.8	3.0	5.0	0.3
	Low	0.6	3.5	6.0	0.3
Major	High	1.2	3.0	5.0	0.3
	Medium	0.9	3.0	5.0	0.3
	Low	0.6	3.5	6.0	0.3
Collector	High	0.8	3.0	5.0	0.4
	Medium	0.6	3.5	6.0	0.4
	Low	0.4	4.0	8.0	0.4
Local	High	0.6	6.0	10.0	0.4
	Medium	0.5	6.0	10.0	0.4
	Low	0.3	6.0	10.0	0.4

OUTDOOR LIGHTING- FLOODLIGHT PLACEMENT AND AIMING

FLOODLIGHT PLACEMENT 2X - 4X RULE



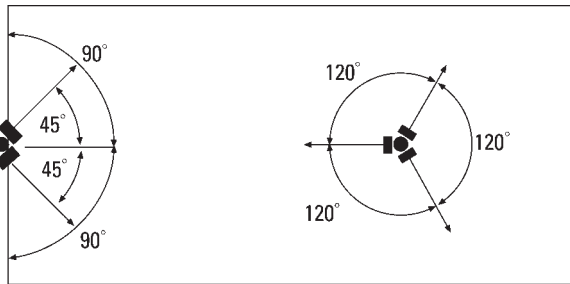
Areas lighted from central locations can be more economical but periphery locations are also desirable to provide needed visibility at entrances and exits, and on each side of three-dimensional objects.



If corner locations are not used, the distance from any side location to the edge of the area should not exceed twice the mounting height (2X). The distance between poles should be no more than 4X.

FLOODLIGHT ALLOCATION AND AIMING

INTERIOR FLOODLIGHTS
THREE PER POLE MIN.

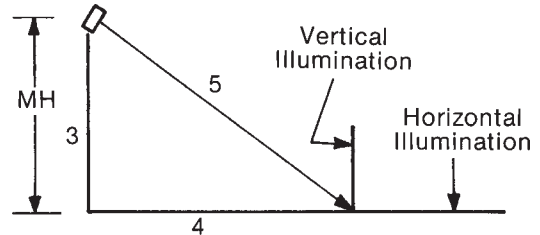


PERIMETER FLOODLIGHTS
TWO PER POLE MIN.

Wide beam floodlights with NEMA 5, 6 or 7 horizontal beams will effectively light an area 45 degrees to either side of the aiming line for a total coverage of 90°. Perimeter poles therefore need at least two floodlights per pole. When mounted in interior locations four floodlights per pole is best, but three per pole is acceptable.

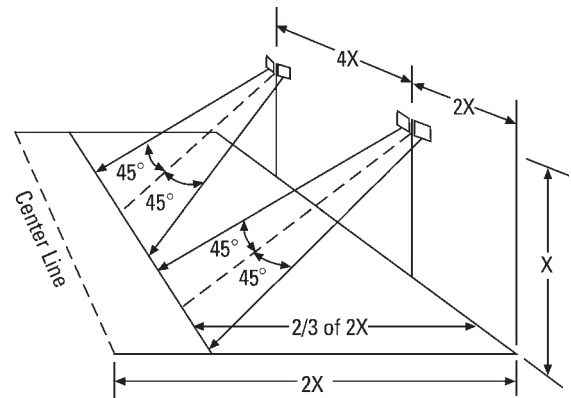
If floodlight locations are limited to only one side of the area to be lighted, the system will be effective for a distance of no more than two mounting heights unless the owner is agreeable to compromise the quality of the installation from the glare standpoint.

The highest horizontal illumination a floodlight can produce at a distance from the pole occurs when the maximum intensity or candlepower is aimed to form approximately a 3, 4, 5 triangle. This is useful in determining pole height for area lighting or setback for building floodlighting.



Illumination on vertical surfaces is often as important as horizontal illumination. This is especially true in outdoor work area and security lighting. The vertical illumination in line with the floodlight can be determined by the ratio of the horizontal distance to the mounting height. If, for example, the horizontal distance is twice the mounting height, the vertical illumination will be twice the horizontal.

$$\text{Vertical FC} = \frac{\text{Horizontal FC} \times \text{Horizontal distance away from floodlight}}{\text{Mounting Height}}$$



Generally, the floodlight aiming point should be 2/3 - 3/4 the distance across the area to be lighted. Higher aiming angles will not improve utilization and uniformity.

FLOODLIGHT-NEMA BEAM DESCRIPTIONS

The National Electrical Manufacturers Association (NEMA) assigns a number to the horizontal and vertical limits of a floodlight's beam spread. A NEMA 7X6 floodlight would have a beam that is over 130° wide horizontally and 100-130° wide vertically. In general, anything wider than a NEMA 5 floodlight is considered a wide beam floodlight.

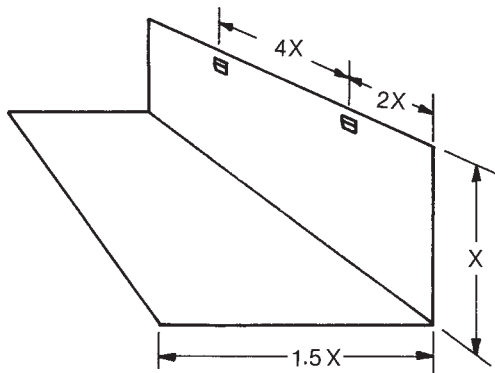
NEMA TYPE	HORIZONTAL BEAM SPREAD	SUGGESTED MAXIMUM AIMING LINE SEPARATION
2	18°-29°	12°
3	30°-46°	24°
4	47°-70°	40°
5	71°-100°	60°
6	101°-130°	90°
7	130°+	120°

OUTDOOR LIGHTING— LUMINAIRES WITH FIXED AIMING

WALLIGHTER LUMINAIRES

BUILDING PERIMETER LIGHTING

Wallighters are a hybrid combination of wide beam floodlight and roadway optics giving them enough sideward output to be used with only one unit per location. To light a building perimeter, place wallighter luminaires a distance of 4 times mounting height (4X) apart, with no more than a distance of 2X from the ends of the building. Transverse (out front) coverage is 1.5 times mounting height.

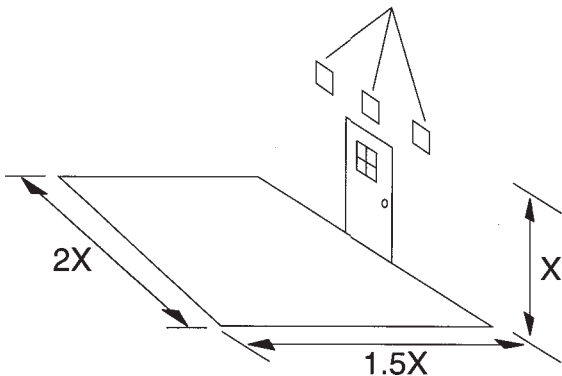


WALLIGHTERS

LIGHTING FOR ENTRANCES AND EXITS

Security lighting at entrances generally requires only one wallighter. Again, coverage out from the luminaire is limited to 1.5 times the mounting height. Coverage from side to side is 2X.

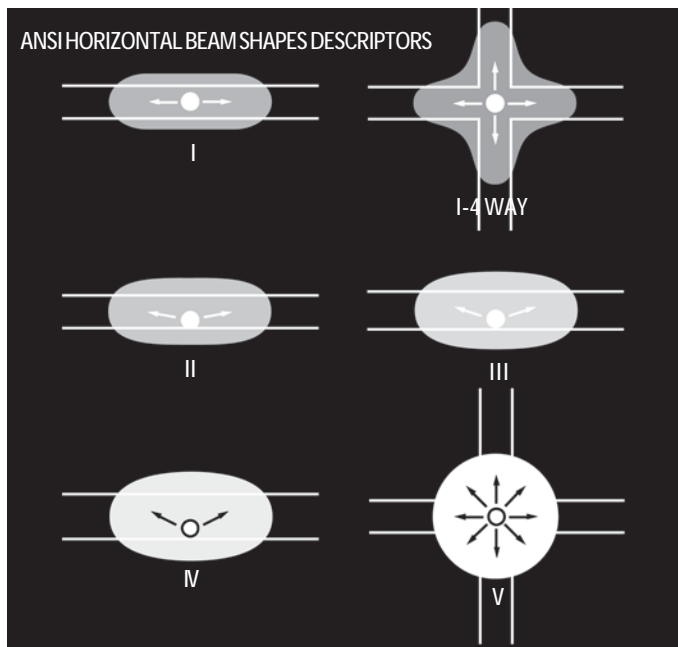
Possible Luminaire Locations



ROADWAY LUMINAIRE

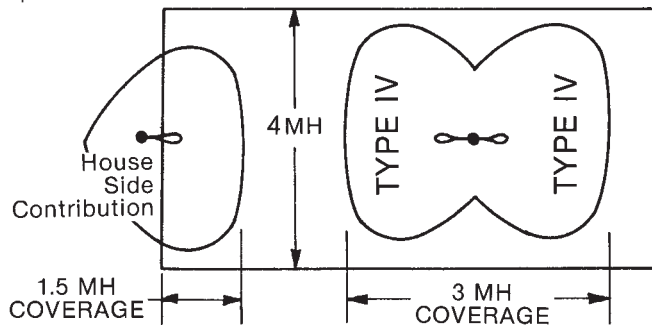
ROADWAY LIGHTING

Roadway luminaires have a variety of descriptors established by the Illuminating Engineering Society of North America (IESNA) and the American National Standards Institute (ANSI). The ANSI/IES descriptor important to area lighting is the horizontal beam shape and is designated by Roman Numerals I through V. For the purpose of our Quick Selector, the shape of the beam is more important than the other two ANSI/IES designator digits (described on page 328).



AREA LIGHTING

Roadway luminaires are suitable for area lighting. They should be mounted on poles within the area. Their distribution produces some useful "house side" illumination in the direction of the pole. But, the house side illumination can be wasted or become light trespass if roadway luminaires are mounted around the perimeter of an area. For lighting from within an area, two roadway units should be mounted back-to-back to get the best uniformity. Luminaires with 90° cutoff (from vertical) are useful for controlling light trespass in close quarters.



OUTDOOR LIGHTING QUICK SELECTOR

The Quick Selector helps estimate the number of wide beam floodlights, roadway luminaires, walllighters or high mast lighting systems needed to light an outdoor area from within or from around the perimeter of the area. The luminaires may be mounted on poles or on nearby buildings and structures.

For applications lighted from the perimeter, the lighted area is considered to be that bordered by the luminaire locations (even if the luminaires are set back away from the actual application area). This method is only applicable for setbacks of up to one mounting height.

Other considerations are: In general, a luminaire location can effectively cover an area of up to two mounting heights away from it. Floodlights are usually considered first for this because they can be aimed away from their location. For example, this makes them especially suited for lighting from around the perimeter of an area. But, floodlights can only light an area 90° wide so that you usually need two or more units per location. Luminaires with roadway light distribution can cover a wide area both in front of and behind the location and find application within the site to be lighted. However roadway luminaires cannot light as far out in front as a floodlight. Walllighters are a hybrid luminaire which combines floodlight and roadway characteristics.

A word of caution: This method is not intended for estimating roadway or sports lighting. The following sections cover these applications in detail.

HERE'S HOW TO USE THIS SELECTOR:

- STEP 1. Determine the average maintained illumination level recommended from Illumination Recommendations—Outdoor Table on page 380.
- STEP 2. Determine the dimensions (length and width) of the site.
- STEP 3. Select light source type (high pressure sodium, metal halide).
- STEP 4. Use Figure below to determine the WATTS/SQUARE FOOT by moving horizontally along the desired footcandle line

to the appropriate diagonal light source line and then moving vertically down to read the Watts/square foot on the horizontal axis.

- STEP 5. Calculate the total lamp watts needed for the area:
TOTAL WATTS = AREA (LxW) x WATTS/SQ FT
- STEP 6. Using your knowledge of the site, determine the probable mounting height for the luminaires. Perhaps the height of a nearby building, existing poles, local height restrictions, nearby lighting, or your experience may factor into this decision.

The simple 2X-4X rule of thumb is also effective. Simply divide the shortest distance that can be covered by adjacent luminaire locations by four to get a mounting height that conforms to the rule.

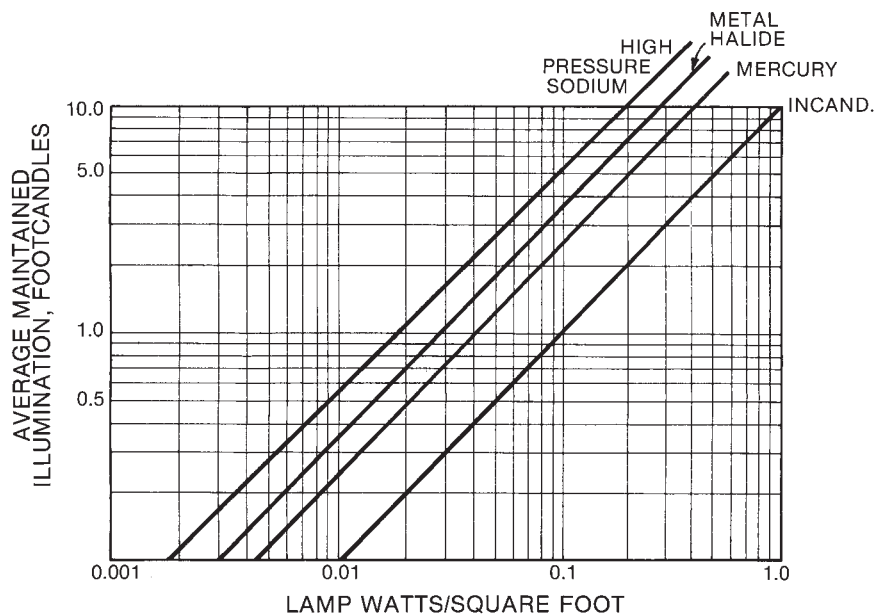
Note that the higher the mounting height, the fewer the locations or poles. Fewer poles, fewer foundations, less wiring, and less trenching translate into lower cost of installation.

- STEP 7. Using your mounting height, position pole or building mounted luminaire locations. Keep in mind that the luminaire locations should not be spaced more than four mounting heights apart and that the coverage is not effective more than two mounting heights away or uniformity suffers.
- STEP 8. Fine tune your layout in terms of quantity of luminaires per location by referring to the guidelines in this section.
- STEP 9. Now calculate the wattage of the luminaires:

$$\text{Lamp Wattage} = \text{TOTAL WATTS} = \text{AREA (LxW)} \times \text{WATTS/SQ FT}$$

- STEP 10. Select the actual GE luminaire for your application.

$$\frac{\text{Total lamp wattage for the area (STEP 5)}}{\text{Number of Luminaires}}$$



(Continued on next page)

OUTDOOR LIGHTING QUICK SELECTOR (Continued)

Consider this example: You want to light a material handling yard measuring 200 by 1000 ft. To permit free movement within the fenced-in area, you want to locate poles around the perimeter just inside the fence. There are no adjacent structures.

STEP 1. From the Outdoor Illumination Recommendations Table you select a 5 FC light level.

STEP 2. The area is 1000 X 200 = 200,000 sq ft

STEP 3. You choose high pressure sodium because of its efficiency.

STEP 4. From the graph, lamp watts/sq ft = 0.1

STEP 5. 200,000 X 0.1 = 20,000 lamp watts.

STEP 6. Per the 2X-4X rule: $\frac{200 \text{ ft}}{4} = 50\text{-ft}$ mounting height.

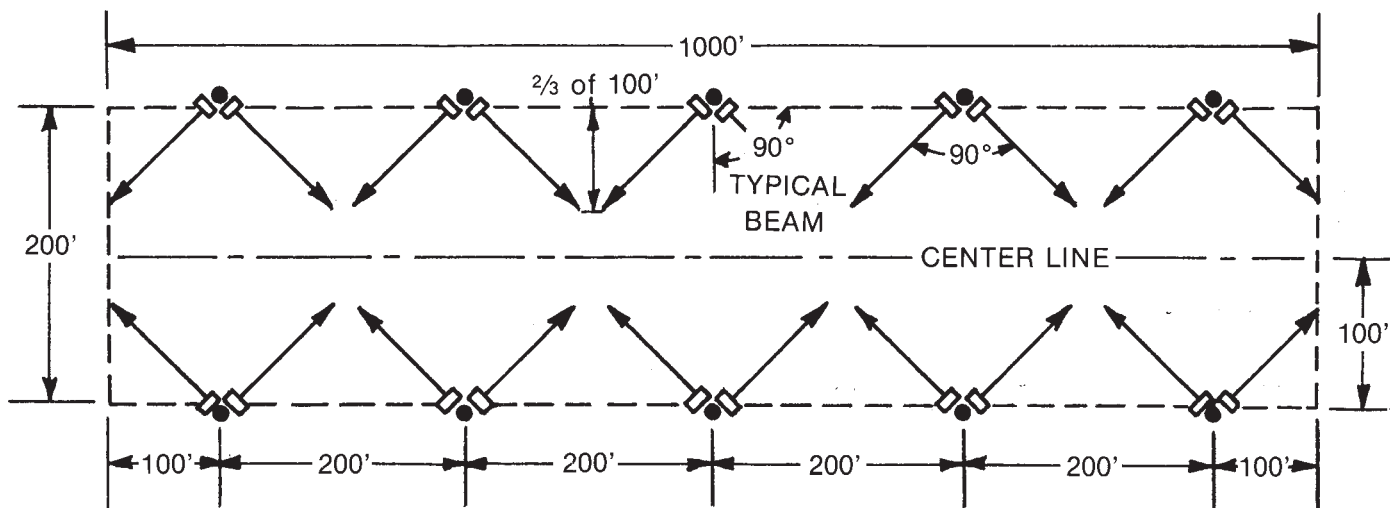
STEP 7. You select locations for poles along both 1000-ft sides of the area.

STEP 8. You position the poles at 200-ft intervals along the sides with the first pole 100-ft-2X from either end.

STEP 9. $\frac{20,000}{10 \text{ locations}} = 2,000 \text{ watts/location} =$ two (2) 1000-watt floodlights/location

Following the guidelines, you aim the two floodlights on each pole at 45° angles to the sides of the area (90° from each other) at points 67 feet ($\frac{2}{3} \times$ two mounting heights) from the sides of the area (see diagram).

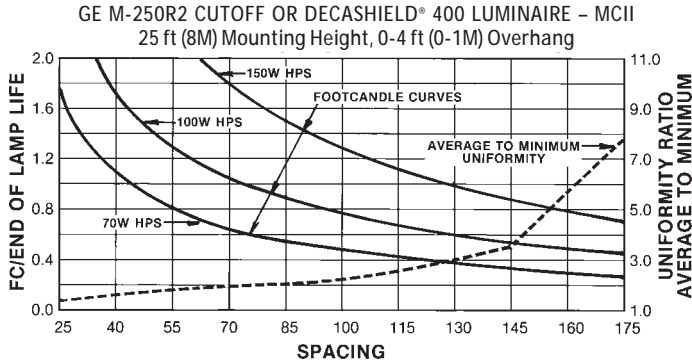
STEP 10. You select a GE PF-1000 Powerflood® floodlight with a wide beam (NEMA 6X5) distribution.



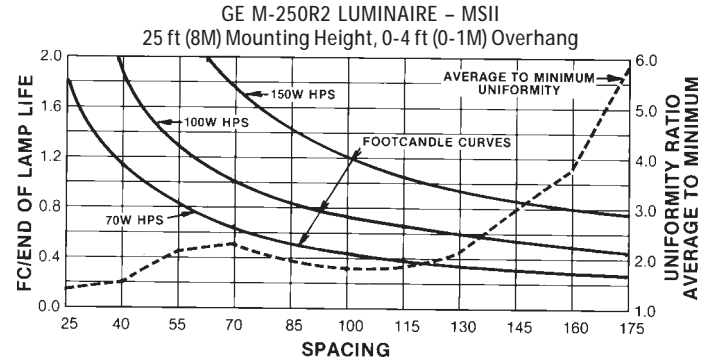
ROADWAY LIGHTING QUICK SELECTOR

The graphs below are summaries of point-by-point computer arrays for various pole spacings. Select the maximum spacing for the average to minimum uniformity desired (dashed line); scale on the right. Then select the wattage rating that provides the maintained footcandles desired. Footcandle and uniformity recommendations are shown on page 380. See page 328 for an explanation of the descriptions for roadway light distribution patterns: for example MCII = Medium, Cutoff, Type II.

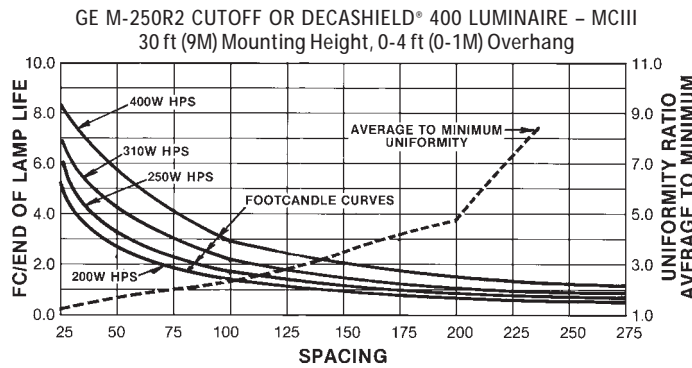
TWO-LANE ROADWAY



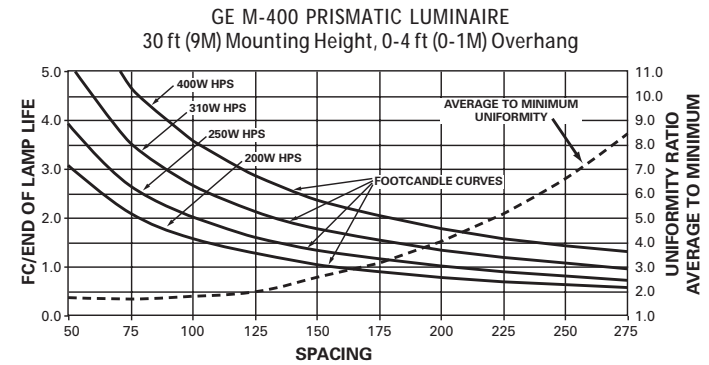
TWO-LANE ROADWAY



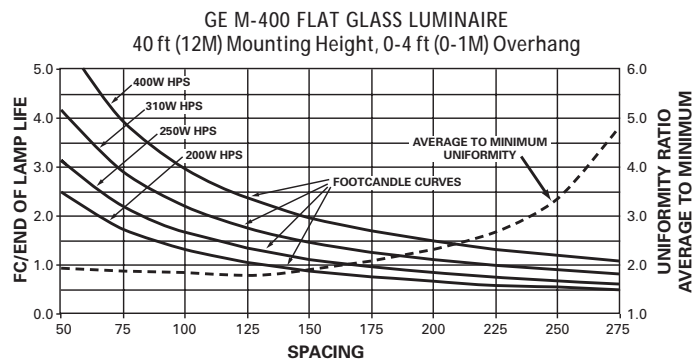
THREE-LANE ROADWAY



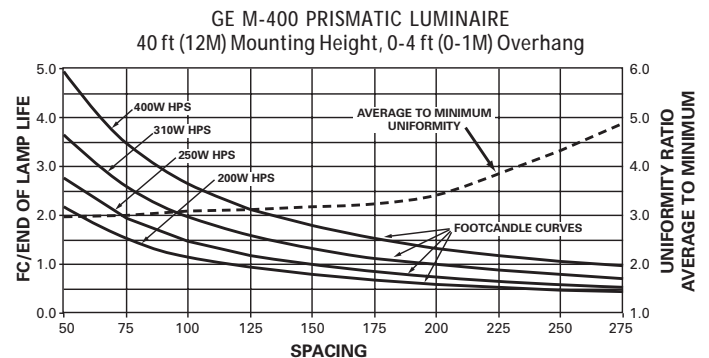
THREE-LANE ROADWAY



FOUR-LANE ROADWAY



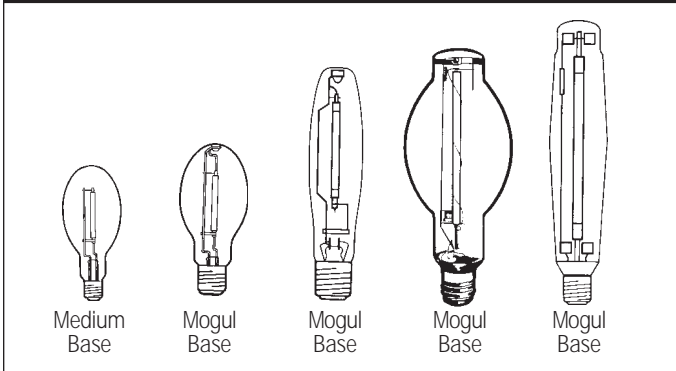
FOUR-LANE ROADWAY



NOTE: To convert footcandles to lux, multiply footcandles by 10.76

LAMP DATA

HIGH PRESSURE SODIUM (HPS) LAMPS



LAMP WARM-UP CHARACTERISTICS

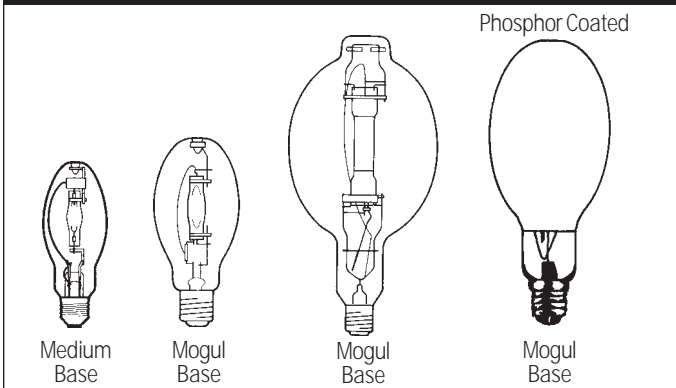
(TIME TO REACH 80% LIGHT OUTPUT)

Mercury	5-7 minutes
Metal Halide	2-4 minutes
High Pressure Sodium	3-4 minutes

HID RESTRIKE CHARACTERISTICS

All HID lamps will deionize when there is a power interruption or if the lamp socket voltage drops below the amount required to sustain the arc for more than a few cycles. Because it takes greater voltage to ionize the arc tube vapors while they are hot and under high pressure, the lamp will not restart immediately. Hot lamp instant restart is available for certain products and wattage ratings (see product pages).

METAL HALIDE AND MERCURY LAMPS



TIME TO RESTRIKE

Mercury	3-6 minutes
Metal Halide	10-15 minutes
Pulse Start Metal Halide	Approximately 4 Minutes
High Pressure Sodium	1 minute

LIGHT LOSS FACTOR

The lighting system light loss factor (LLF) is the product of the lamp lumen depreciation (LLD) and the luminaire dirt depreciation (LDD). The lamp lumen depreciation is given in manufacturer's lamp tables for both the "mean" and the "end of relamping period." The mean value is taken at approximately 40% life for metal halide and 50% life for HPS lamps. For mercury lamps the value is taken at 8,000 hours. This is due to the lamp lumen depreciation characteristics of mercury lamps. A 16,000-hour economic life is suggested for this lamp. The values for "end of relamping period" are taken at the end of the lamp's life. The user may also use a more convenient group relamping period and should adjust the value accordingly.

Luminaire dirt depreciation (LDD) is a function of the in-service conditions and the type of luminaire. Enclosed and filtered luminaires have built-in maintenance characteristics which reduce the amount and effect of dirt accumulation. While it is not possible to select one number to describe all conditions, the following LDD values are suggested.

HIGH INTENSITY DISCHARGE LAMPS

High Intensity Discharge (HID) lamps are those which have a gaseous discharge arc tube, operating at pressures and current densities sufficient to generate desired quantities of visible radiation within their arcs alone. These lamp types have become popular primarily for three reasons.

1. High efficacy – more lumens per watt of power consumed.
2. Long lamp life and good lumen maintenance – reduces operating expenses.
3. Compact source – permits good light control by use of reflectors and refractors, resulting in high system efficiency.

The three principal HID lamps now in common use are mercury, metal halide and high pressure sodium (HPS).

STROBOSCOPIC EFFECT

HID lamp output tends to follow the alternating current waveform. This can cause small moving objects to flicker. To avoid this annoyance, three-phase power is suggested for mercury and HPS lamps. Split phase ballasting can also be used with mercury lamps. Single-phase power can be used with metal halide lamps.

OUTDOOR APPLICATIONS

LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)
Enclosed and filtered	0.95
Unfiltered	0.80

INDOOR APPLICATIONS

LUMINAIRE TYPE	LUMINAIRE DIRT DEPRECIATION (LDD)		
	Light	Medium	Heavy
Enclosed and filtered	0.97	0.93	0.88
Enclosed	0.94	0.86	0.77
Open and ventilated	0.94	0.84	0.74

GE Lighting Systems, Inc.

www.gelighting.com

HIGH PRESSURE SODIUM LAMP DATA

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	INITIAL LUMENS	MEAN LUMENS
35-WATT-LIFE AT 10 HOURS/START = 16,000 HOURS					
LU35/Med	S76	Clear	3-7/16	2,250	2,025
LU35/D/Med	S76	Diffuse	3-7/16	2,150	1,900
50-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU50/Med	S68	Clear	3-7/16	4,000	3,600
LU50/D/Med	S68	Diffuse	3-7/16	3,800	3,420
LU50	S68	Clear	5	4,000	3,600
LU50/D	S68	Diffuse	5	3,800	3,420
70-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU70/Med	S62	Clear	3-7/16	6,400	5,450
LU70/D/Med	S62	Diffuse	3-7/16	5,950	5,050
LU70	S62	Clear	5	6,400	5,450
LU70/D	S62	Diffuse	5	5,950	5,050
100-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU100/Med	S54	Clear	3-7/16	9,500	8,550
LU100/D/Med	S54	Diffuse	3-7/16	8,800	7,920
LU100	S54	Clear	5	9,500	8,550
LU100/D	S54	Diffuse	5	8,800	7,920
150-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU150/Med	S55	Clear	3-1/2	16,000	14,400
LU150/D/Med	S55	Diffuse	3-1/2	15,000	13,500
LU150/55	S55	Clear	5	16,000	14,400
LU150/55/D	S55	Diffuse	5	15,000	13,500
LU150/100	S56	Clear	5	15,000	13,500
200-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU200	S66	Clear	5-3/4	22,000	19,800
250-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU250	S50	Clear	5-3/4	28,000	27,000
LU250/D	S50	Diffuse	5	26,000	23,400
310-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU310	S67	Clear	5-3/4	37,000	33,300
400-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU400	S51-	Clear	5-3/4	51,000	45,000
LU400/D	S51	Diffuse	7	47,500	42,750
750-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU750	S111	Clear	6-7/8	110,000	99,000
1000-WATT-LIFE AT 10 HOURS/START = 24,000⁺ HOURS					
LU1000	S52	Clear	8-3/4	140,000	126,000
ECOLUX[®] NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)					
LU70/ECO/NC	S62	Clear	5	6,300	5,670
LU100/ECO/NC	S54	Clear	5	10,500	9,450
LU150/ECO/NC	S55	Clear	5	16,000	14,400
LU200/ECO/NC	S66	Clear	5-3/4	22,000	19,800
LU250/ECO/NC	S50	Clear	5-3/4	29,000	26,100
LU400/ECO/NC	S54	Clear	5-3/4	54,000	48,600

NOTE: Consult lamp manufacturer for lamp lumen depreciation.

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	INITIAL LUMENS
DELUXE LAMPS				
70-WATT-RATED LIFE AT 10 HOURS/START = 10,000 HOURS				
LU70/DX/Med	S62	Clear	3-1/2	3,800
LU70/DX/D/Med	S62	Diffuse	3-1/2	3,600
150-WATT-RATED LIFE AT 10 HOURS/START = 15,000⁺ HOURS				
LU150/DX/Med	S55	Clear	3-1/2	10,500
LU150/DX/D/Med	S55	Diffuse	3-1/2	9,900
LU150/55/DX	S55	Clear	5	10,500
LU150/DX/D	S55	Diffuse	5	9,900
250-WATT-RATED LIFE AT 10 HOURS/START = 15,000⁺ HOURS				
LU250/DX	S50	Clear	5-3/4	22,500
LU250/DX/D	S50	Diffuse	5	20,000
400-WATT-RATED LIFE AT 10 HOURS/START = 15,000⁺ HOURS				
LU400/DX	S51	Clear	5-7/32	37,400
LU400/DX/D	S51	Diffuse	5-7/32	35,500

NOTE

Similar wattage clear, diffuse, or deluxe HPS lamps may not have the same bulb size or light center length. If lamps are interchanged, the socket position may need to be changed to obtain the desired photometric distribution.

Most GE Lighting Systems products will be furnished with mogul base sockets. Any exceptions will be noted on product pages. Medium base socket must be rated for 4KV.

AVERAGE LIFE VS. HOURS/START[‡]

HOURS/START	ESTIMATED AVG. LIFE
Continuous	Greater than 100%. Varies with lamp rating and ballast. Contact factory
10	100%
5*	75%
2.5	56%
1.2	42%

[‡]Applies to HPS, Metal Halide and Mercury lamps.

* Rating standard for 1500, 1650 and 2000 watt lamps. Contact factory for life on other burning cycles.

METAL HALIDE LAMP DATA

(See WARNING, Page T-33)

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING			HORIZONTAL BURNING		
				INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE 10 HOURS PER START	INITIAL LUMENS	HORIZONTAL MEAN LUMENS	RATED AVERAGE LIFE 10 HOURS PER START
175-WATT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR175/U/MED	M-57	Clear	3-7/16	13,600	8,800	10,000	11,700	7,400	6,000
MVR175/C/U/MED	M-57	Coated	3-7/16	12,900	7,400	10,000	11,900	7,900	6,000
MVR175/U	M-57	Clear	5	13,600	8,800	10,000	11,700	7,400	6,000
MVR175/C/U	M-57	Coated	5	12,900	8,400	10,000	11,900	8,400	6,000
250-WATT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR250/U	M-58	Clear	5	20,800	13,500	10,000	19,100	12,400	6,000
MVR250/C/U	M-58	Coated	5	19,800	13,000	10,000	18,200	11,600	6,000
400-WATT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR400/U	M-59	Clear	7	36,000	23,500	20,000	33,100	22,100	15,000
MVR400/C/U	M-59	Coated	7	35,000	23,000	20,000	32,200	19,300	15,000
MVR400/U/ED28	M-59	Clear, Compact Bulb	5	36,000	23,500	20,000	33,100	22,100	15,000
1000-WATT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR1000/U	M-47	Clear	9-1/2	108,000	86,000	15,000	100,280	79,000	11,000
MVR1000/U/CP	M-47	Coated	9-1/2	105,000	80,000	15,000	96,600	73,000	11,000
MVR1000/U/BT37	M-47	Clear, Compact Bulb	7	115,000	90,000	12,000	100,280	82,000	11,000
175-WATT HIGH OUTPUT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR175/HOR	M-57	Clear, Horizontal Burn $\pm 15^\circ$, Position-oriented Socket Required	5	N/A	N/A	N/A	15,000	7,700	10,000
250-WATT HIGH OUTPUT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR250/HOR	M-58	Clear, Horizontal Burn $\pm 15^\circ$, Position-oriented Socket Required	5	N/A	N/A	N/A	21,000	10,000	15,000
MVR250/C/HOR	M-58	Coated, Horizontal Burn $\pm 15^\circ$, Position-oriented Socket Required	5	N/A	N/A	N/A	19,700	9,400	15,000
400-WATT HIGH OUTPUT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR400/VBU/HO	M-59	Clear, Vertical Base Up $\pm 15^\circ$	7	41,000	26,500	20,000	N/A	N/A	N/A
MVR400/C/VBU	M-59	Coated, Vertical Base Up $\pm 15^\circ$	7	41,000	26,500	20,000	N/A	N/A	N/A
MVR400/VBU/GT28	M-59	Clear, Vertical Base Up $\pm 15^\circ$ Compact Bulb	5	41,000	26,500	20,000	N/A	N/A	N/A
MVR400/VBU/XHO	M-59	Clear, Vertical Base Up $\pm 15^\circ$	7	43,000	28,000	20,000	N/A	N/A	N/A
MVR400/C/VBU/XHO	M-59	Coated, Vertical Base Up $\pm 15^\circ$	7	42,000	27,000	20,000	N/A	N/A	N/A
MVR400/HOR/BT28	M-59	Clear, Horizontal Burn $\pm 15^\circ$, Fits Standard or Position-oriented Socket, Compact Bulb	5	N/A	N/A	N/A	37,000	22,000	20,000
MVR400/HOR/MOG	M-59	Coated, Horizontal Burn $\pm 15^\circ$, Fits Standard or Position-oriented Socket	7	N/A	N/A	N/A	38,000	22,500	20,000
1000-WATT HIGH OUTPUT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR1000/VBU/HO	M-47	Clear, Vertical Base Up $\pm 15^\circ$	9-1/2	111,000	87,000	15,000	N/A	N/A	N/A
MVR1000/C/VBU/HO	M-47	Coated, Vertical Base Up $\pm 15^\circ$	9-1/2	107,000	81,500	15,000	N/A	N/A	N/A
1500-WATT HIGH OUTPUT MULTI-VAPOR* METAL HALIDE LAMPS									
MVR1500/U/SPORTS	M-48	Clear, Base Up 15° Above Horizontal (16, 17)*	9-1/2	170,000	153,000	3,000	162,000	133,000	3,000

‡SAF-T-GARD® lamps are available. Lamp designation is changed from MVR to MVT. Lumens and Life data are reduced.

*Vertical $\pm 15^\circ$, open fixture—all other, enclosed fixture.

**Requires ballast with pulse ignitor

N/A = Not Applicable

† - POMB Base (Position Oriented Mogul Base)

NOTE: Longer than rated lamp life can occur when operating cycles exceed an average of 10 hours per start - contact lamp manufacturer. Consult lamp manufacturer for lamp lumen depreciation. All MXR lamps have an apparent color temperature rated at 3,200° Kelvin and all MVR lamps have an apparent color temperature of 4,000° Kelvin.

METAL HALIDE LAMP DATA

(See WARNING, Page T-33)

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING			HORIZONTAL BURNING		
				INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE 10 HOURS PER START	INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE 10 HOURS PER START
50-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MXR50/U/MED	M-110	Clear	3-7/16	3,900	2,200	5,000	N/A	N/A	N/A
MVR50/U/MED	M-110	Clear	3-7/16	3,100	1,900	5,000	11,900	N/A	6,000
70-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MXR70/U/MED	M-98	Clear	3-7/16	5,500	3,500	12,000	N/A	N/A	N/A
MVR50/U/MED	M-98	Clear	3-7/16	4,700	3,000	12,000	N/A	N/A	N/A
100-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MXR100/U/MED	M-90	Clear	3-7/16	9,000	6,200	15,000	N/A	N/A	N/A
MVR100/U/MED	M-90	Clear	3-7/16	8,100	5,800	15,000	N/A	N/A	N/A
150-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MXR150/U/MED	M-102	Clear	3-7/16	12,500	8,600	15,000	N/A	N/A	N/A
MVR150/U/MED	M-102	Clear	3-7/16	11,700	8,100	15,000	N/A	N/A	N/A
175-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MXR175/VBU/PA	M-137	Clear, Vertical Base Up ±15°	5	17,000	12,500	15,000	N/A	N/A	N/A
MXR175/C/VBU/PA	M-137	Coated, Vertical Base Up ±15°	5	16,000	12,000	15,000	N/A	N/A	N/A
MVR175/VBU/PA	M-137	Clear, Vertical Base Up ±15°	5	17,500	13,000	15,000	N/A	N/A	N/A
MVR175/C/VBU/PA	M-137	Coated, Vertical Base Up ±15°	5	16,500	12,500	15,000	N/A	N/A	N/A
MVR175/VBU/MED/PA	M137	Clear, Vertical Base Up +/- 15deg	3-7/16	17,500	13,000	15,000	N/A	N/A	N/A
MVR175/C/VBU/MED/PA	M137	Coated, Vertical Base Up +/- 15deg	3-7/16	16,500	12,500	15,000	N/A	N/A	N/A
250-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MVR250/VBU/PA	M-153	Clear, Vertical Base Up ±15°	5	23,000	17,000	15,000/20,000	N/A	N/A	N/A
MVR250/C/VBU/PA	M-153	Coated, Vertical Base Up ±15°	5	21,500	15,500	15,000/20,000	N/A	N/A	N/A
320-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MVR320/VBU/HO/PA	M-154	Clear, Vertical Base Up ±15°	5	31,000	18,000	20,000	N/A	N/A	N/A
MVR320/C/VBU/HO/PA	M-154	Coated, Vertical Base Up ±15°	5	30,000	16,500	20,000	N/A	N/A	N/A
MVR320/VBU/XHO/PA	M-154	Clear, Vertical Base Up ±15°	5	34,000	25,000	20,000	N/A	N/A	N/A
MVR320/C/VBU/XHO/PA	M-154	Coated, Vertical Base Up ±15°	5	33,000	23,000	20,000	N/A	N/A	N/A
350-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MVR350/VBU/XHO/PA	TBD	Clear, Vertical Base Up ±15°	7	37,000	27,500	20,000/30,000	N/A	N/A	N/A
MVR350/C/VBU/XHO/PA	TBD	Coated, Vertical Base Up ±15°	7	36,000	26,000	20,000/30,000	N/A	N/A	N/A
400-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MVR400/VBU/XHO/PA	M-155	Clear, Vertical Base Up ±15°	7	44,000	28,500	20,000/30,000	N/A	N/A	N/A
MVR400/C/VBU/XHO/PA	M-155	Coated, Vertical Base Up ±15°	7	42,000	27,500	20,000/30,000	N/A	N/A	N/A
750-WATT PULSEARC™ MULTI-VAPOR® METAL HALIDE LAMPS									
MVR750/VBU/PA	M-149	Clear, Vertical Base Up ±15°	7	82,000	60,000	16,000	N/A	N/A	N/A
MVR750/C/VBU/PA	M-149	Coated, Vertical Base Up ±15°	7	72,000	54,000	16,000	N/A	N/A	N/A
CERAMIC CMH™ METAL HALIDE LAMPS									
CMH70/U/830/MED	M-98 M-143	Clear	3-7/16	6,300	4,100	15,000	6,300	4,100	15,000
CMH100/U/830/MED	M-90 M-140	Clear	3-7/16	9,200	6,600	10,000	9,200	6,400	15,000
CMH320/PA/O		Clear	7	30,000	24,000	20,000	N/A	N/A	N/A
CMH350/PA/O		Clear	7	34,000	27,200	20,000	N/A	N/A	N/A
CMH400/VBU/940/PA/O	M-155	Clear	7	40,000	32,000	20,000	N/A	N/A	N/A
CMH400C/VBU/PA/O	M-155	Coated	7	39,000	31,200	20,000	N/A	N/A	N/A

‡SAF-T-GARD® lamps are available. Lamp designation is changed from MVR to MVT. Lumens and Life data are reduced.

*Vertical ± 15°, open fixture—all other, enclosed fixture. **Requires ballast with pulse ignitor

N/A = Not Applicable † - POMB Base (Position Oriented Mogul Base)

NOTE: Higher life rating refers to operation @ 120 hrs. on / 1 hr. off cycle Lower life rating refers to operation @ 10 hrs. on / 1 hr. off cycle. Consult lamp manufacturer for lamp lumen depreciation. All MXR lamps gave an apparent color temperature rated at 3,200° Kelvin and all MVR lamps have an apparent color temperature of 4,000° Kelvin

METAL HALIDE LAMP DATA

(See WARNING Below)

METAL HALIDE LAMP TILT FACTOR

When the following metal halide lamps are operated in other-than-vertical positions (as in floodlights), initial vertical-burning lumens are reduced by the multipliers in this table.

LAMP	ANGLE OFF VERTICAL*						
	0°	15°	30°	45°	60°	75°	90°
MVR1500/U/SPORTS	1.0	0.95	0.94	0.90	0.88	0.87	0.94
MVR1000/U	1.0	0.95	0.94	0.90	0.88	0.87	0.98
MVR400/U and lower wattages	1.0	0.95	0.94	0.90	0.88	0.87	0.94

*This data is for GE lamps only.

WARNING

(ALL MERCURY AND METAL HALIDE LAMPS)

This lamp can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available from the General Electric Company. These are self-extinguishing Safe-T-Gard® mercury and Multi-Vapor® metal halide lamps.

QUARTZ HALOGEN LAMP DATA

ORDERING ABBREVIATION	RATED WATTS	RATED VOLTS	MAX OVERALL LENGTH, IN.	BURNING POSITION	APPROXIMATE LUMENS		LIFE HOURS
					INITIAL	MEAN	
C225T2/CL/HR	225	120	4-11/16	Horiz	5950	5652	3000
C300T3/CL(EHM)	300	120	4-11/16	Horiz	5950	5760	2000
C350T3/CL/HR	350	120	4-11/16	Horiz	10000	9500	2000
C425T3/CL	425	120	4-11/16	Horiz	8900	8600	2000
C500T3/CL(FCL)	500	120	4-11/16	Horiz	11,100	10,750	2000
C500T3/CL(DVS)	500	130	4-11/16	Horiz	10,550	10,250	2000
C900T3/CL/HR	900	240	10-1/16	Horiz	32,000	30,400	2000
Q1500T3/CL	1500	208	10-1/16	Horiz	35,800	34,700	2000
	1500	220	10-1/16	Horiz	35,800	34,700	2000
	1500	240	10-1/16	Horiz	35,800	34,700	2000

LAMPS FOR INSTANT-ON AUTOMATICALLY SWITCHED QUARTZ

ORDERING ABBREVIATION	RATED WATTS	RATED VOLTS	MAX OVERALL LENGTH, IN.	BURNING POSITION	INITIAL LUMENS	MEAN LUMENS	LIFE HOURS
Q1000CL/DC	100	120	2-7/16	Vert	1600	-	2000
Q1500CL/DC	150	120	2-1/2	Any	2800	2600	2000
Q2500CL/DC	250	120	3	Any	5000	4850	2000

FLUORESCENT LAMP DATA

ORDERING ABBREVIATION	WATTS	LENGTH (in.)	INITIAL LUMENS	MEAN LUMENS	LIFE (HOURS)*	STARTING TEMP °F	BASE STYLE
FOR H4 LUMINAIRE							
F40/30BX/SPX30/RS	39	22-1/2	3150	2840	20000	50°	2G11, Single End, 4-Pin
FOR MINI-GARD LUMINAIRE							
F13DBX23T4/SPX27	13	48	860	730	10000	32°	GX23-2, Single End, 2-Pin
F13DBXT4/SPX27	13	56	900	765	10000	5°	G24d-1, Single End, 2-Pin
F26DBXT4/SPX27	26	76	1800	1530	10000	15°	G24d-3, Single End, 2-Pin
FOR VERSABEAM LUMINAIRE							
F32TBX/SPX35/A/4P/EOL	32	55	2200	1850	12000	10°C(50°F)	GX24-03
F42TBX/835/A/4P/EOL	42	64	3200	2690	12000	10°C(50°F)	GX24-04
F57QBX/835/A/4P/EOL	57	69	4300	3440	12000	10°C(50°F)	GX24-05
F72QBX/835/A/4P/EOL	72	79	5200	4160	12000	10°C(50°F)	GX24-06

NOTE: *3 Hours/Start; will be longer at 10 Hours/Start

MERCURY LAMP DATA

ORDERING ABBREVIATION	ANSI CODE	FINISH	LIGHT CENTER LENGTH INCHES	VERTICAL BURNING	HORIZONTAL BURNING
				INITIAL LUMENS	INITIAL LUMENS
100-WATT-LIFE 24,000 * HOURS 10 HOURS/START-MOGUL BASE					
HR100A38	H38HT-100	Clear	5	3850	3650
HR100DX38†	H38JA-100/DX	Deluxe	5	4200	4200
175-WATT-LIFE 24,000 * HOURS 10 HOURS/START-MOGUL BASE					
HR175A39	H39KB-175	Clear	5	7950	7570
HR175DX39†	H39KC-175/DX	Deluxe	5	8600	8600
HR175WDX39	H39KC-175/WDX	WarmDX	5	7000	7000
250-WATT-LIFE 24,000 * HOURS 10 HOURS/START-MOGUL BASE					
HR250A37	H37KB-250	Clear	5	11,200	10,700
HR250DX37†	H37KC-250/DX	Deluxe	5	12,100	12,100
HR250WDX37	H37KC-250/WDX	WarmDX	5	10,000	10,000
400-WATT-LIFE 24,000 * HOURS 10 HOURS/START-MOGUL BASE					
HR400A33	H33CD-400	Clear	7	21,000	20,000
HR400DX33†	H33GL-400/DX	Deluxe	7	22,500	22,500
HR400WDX33	H33GL-400/WDX	WarmDX	7	19,500	19,500
1000-WATT-LIFE 24,000 * HOURS 10 HOURS/START-MOGUL BASE					
HR1000A36	H36GV-1000	Clear	9-1/2	57,000	54,000
HR1000DX36†	H36GW-1000/DX	Deluxe	9-1/2	63,000	60,000

†SAF-T-GARD® lamps are available. Lamp designation is changed from HR to HT, lumens reduced approximately 10% and life of the 100W and 175W is only 16,000 hrs.

ANSI METAL HALIDE LAMP CLASSIFICATIONS

Every metal halide lamp is classified by the lamp manufacturer as to the recommended manner in which it should be used. The following are the three American National Standards Institute (ANSI) classifications:¹

- Lamps classified as E-type are to be used only in suitably rated enclosed luminaires, in accordance with UL 1572 and CSA C22.2 No. 9.0 (UL 1598 and CSA C22.2 No. 250.0).²
- Lamps classified as S-type may be used in an open luminaire, when operated in the specified vertical position. This category of lamps is limited only to certain lamps in a 350- to 1000-watt range.
- Lamps with quartz arc tubes, classified as O-type, comply with ANSI Standard C78.387³ for containment testing and may be used in open luminaires. Procedures for testing the containment of ceramic metal halide lamps are under development in ANSI.

¹ANSI C78.380, Annex B

²UL 1572... CSA C22.2 No. 9... UL 1598... CSA C22.2 No. 250.0... Note that these last two standards are the Bi-national Luminaire Standard.

³ANSI C78.387...

Advanced "ST" HID Acrylic For HID Fixtures – Denoted as "S" In Optical Code Order Logic For Indoor Fixtures

Use of acrylic HID fixture lens materials is a popular method for providing efficient and effective light distribution in many indoor low bay applications. The use of a specific grade of acrylic, termed HID acrylic, is common in HID fixtures because it provides higher levels of UV stabilizer and UV absorber than "standard grades" of acrylic. GELS now offers an advanced "ST" HID (listed as "S" in optical order logic versus "A" for standard HID acrylic) acrylic which has a 20°C higher glass transition temperature (softening point) than standard HID acrylic products. The higher temperature softening point of the new material makes it better with respect to containment of metal halide lamp non-passive failures. All of GELS's standard HID acrylic offerings meet UL standards for polymeric lamp containment. The new advanced "ST" HID acrylic material also passes the more stringent alternate UL containment test where the material must withstand direct flame impingement (UL 1598 5" Flame Test). In addition, advanced "ST" HID acrylic passes both the standard UL particle containment test, which stipulates that a 1.1 gram particle of hot quartz material be tested, and the tougher 4.0 gram loading test which is used for 1000 watt lamps. More dramatically, successful containment testing with an entire metal halide lamp arc tube (weighing approximately 9 grams) on a refractor with the "ST" HID acrylic demonstrated that the material withstands extreme hot particle loading.

GELS advanced "ST" HID acrylic is also superior to standard and HID acrylic with respect to yellowing. The improved performance is a result of a new combination of UV absorbers and stabilizers as well as the higher glass transition temperatures of the new "ST" HID material. The higher transition temperatures dramatically reduce diffusion rates of the additive package relative to other HID acrylic thus reducing and inhibiting the yellowing process. At 100°C the new advanced "ST" HID acrylic yellows at 25% of the rate at which HID acrylic yellows.

