LITHONIA LIGHTING®



Indoor HID

Lithonia Lighting offers a wide selection of indoor HID products to address high-mount and low-mount lighting applications.

Lithonia industrial lighting withstands vibration, dirt, heat, moisture and corrosiveness while providing proper levels of efficient illumination. Lithonia commercial lighting provides a bright, cheerful and relaxed atmosphere that enhances customer and worker comfort. Lithonia recreational lighting delivers glare-free illumination so that playing surfaces and the surrounding environment are adequately illuminated for spectator and player safety.





388

390

392

CONTENTS

Optical Selection Guide

348



Ballast Housings	350
High Bay	
Durabay® Glass Acrylume® Acrylic Hi-Tek® Aluminum	353 358 362
Low Bay	
Acrylume® Acrylic Hi-Tek® Aluminum	360 370
Food Processing	374
Refractor & Low Wattage	376
Recessed HID	378
Dock Lights	380
KiloWatch® HID Control System	381
Tankai ani lafa	
Technical Info	
Ballast Selection Guide	
Ballast Selection Guide	384 385

Miscellaneous

Power Hooks

Wireguards

Cord Mounting



Low Bays/High Bays

Selecting the proper optical for your application is essential to obtain desirable results and a high quality lighting installation. Making the proper choice can become complicated with the many different aspects of a space to consider and the wide selection of optics from which to choose. Determining the mounting height for an application is the first step to narrowing the selection.

HID lighting fixtures are grouped in two general categories of low bays and high bays. Low bays are for areas with mounting heights typically under 20 feet. High bays are designed for spaces with mounting heights of approximately 18 feet and higher.

Low Bays



Low bays are designed with distributions to spread the light out in a space and prevent hot spots of light below the luminaire. The bottom prismatic lens bends the light to create wide distributions that improve uniformity and increase vertical illumination at lower mounting heights. Low bays perform best at mounting heights less than 20 feet and are available in various wattages up to 450 watts. The prisms reduce glare and

brightness by obscuring the lamp from view and spread out the lamp image across the lens, improving visual comfort within a space. All lenses are gasketed and supported by a door ring held in place with stainless spring steel latches that ensure a tight seal to minimize dirt entry. Optional charcoal filtering provides added protection against contaminant entry by controlling and cleaning airflow into the luminaire.

High Bays



High bays have distributions for directing light downward to maximize horizontal light levels on an area or task. Mounted at heights of 18 feet to more than 40 feet, they are available with narrower distributions and wattages up to 1000 watts. Glare and brightness are not as critical as for low bays since the luminaires are mounted high above and viewed from greater distances away. These reflectors typically are open to maximize output efficiency and minimize dirt accumulation. Open-top, open-bottom reflectors stay cleaner because the heat from the lamp creates a convective airflow that continually moves dirt and dust

air flow

Enclosed high bays have a flat clear lens to minimize degradation of the anodized finish in harsh environments or contain the lamp if breakage occurs from impact to the luminaire or arc tube rupture. A flat lens typically will reduce luminaire efficiency by 5-10% compared to the same reflector open. All lenses are gasketed and supported by a door ring held in place with stainless spring steel latches that ensure a tight seal to minimize dirt entry. Optional charcoal filtering provides added protection against contaminant entry by controlling and cleaning airflow into the luminaire.

Material Choice

away from the reflector.

Low bays and high bays primarily are available in aluminum, acrylic and glass. Each material differs in performance, cost and durability making them suitable for a variety of applications for different reasons.

Hi-Tek® Aluminum



- · Maximized horizontal light levels
- · High ambient temperature
- Impact tolerant
- Oily and corrosive environments (high bays)
- · Long service life

Aluminum is an economical and easily shaped material used to produce efficient reflectors that can withstand impact and high ambient temperatures. Different finishes are applied for protection and photometric performance. An anodized finish protects against corrosion, oily environments and increases control of the reflected light to produce distinct distributions with efficient photometric performance. A highly reflective white polyester powder coat paint finish provides excellent protection against many corrosive compounds and creates a widespread distribution for low bays that helps reduce glare from the lamp. Hi-Tek reflector designs are available in both low bays and high bays that maximize downward efficiency with very little or no uplight component.

Hi-Tek low bay opticals combine aluminum reflectors with prismatic acrylic refractor lenses.

Together they produce wide distributions that maximize downward efficiency, minimize glare and enhance vertical illumination. These are ideal for applications with darker ceilings or where uplight is not desired or beneficial in applications such as retail, sports facilities, manufacturing, heavy industrial and food processing. See Acrylume® acrylic section on next page for limitations of acrylic.

Hi-Tek open high bay reflectors have narrower distributions to maximize downward efficiency and horizontal light levels from high mounting heights. Applications for these reflectors include warehouses, manufacturing facilities, heavy industrial and other areas with high mounting heights or where uplight is not desired or beneficial. Enclosed versions are available with a gasketed flat tempered glass lens and door.



Prismatic acrylic reflector and refractor designs are a popular choice for many applications. Acrylume® opticals boast higher luminaire efficiencies than aluminum reflectors through an added uplight component that smoothly illuminates the ceiling surface. A brighter ceiling reduces the background contrast so the luminaires do not appear to be as bright. The added uplight also contributes to better vertical illumination, greater uniformity and a more natural daylight feeling within a space.

Acrylume® low bay optics combine acrylic reflectors with prismatic acrylic refractor lenses. This combination is superior for glare and brightness control, vertical illumination and overall uniformity. The high quality of light delivered by these optics make them well suited for retail, institutional, sports facilities, food processing and light manufacturing applications at mounting heights less than 20 feet. A flat clear bottom lens is available in tempered glass or acrylic that produce narrower distributions suitable for mounting heights above 18 feet.

Acrylume® open high bay reflectors produce distributions for mounting heights above 18 feet. The prismatic reflector has an uplight component of 15 to 20% that illuminates surfaces above the luminaire. This eliminates shadows and scalloping along walls and at tops of warehouse aisleways. Applications include retail, light manufacturing, warehousing and institutional buildings.

Acrylume® acrylic optics are UV stabilized to prevent yellowing for ten years when operating at or below the luminaire's ambient temperature rating. Acrylic is susceptible to degradation from exposure to certain chemical compounds and oils. Compatibility must be verified for applications with air borne contaminants by referencing the acrylic environmental compatibility chart on page 735. Acrylic reflectors and refractors need to be replaced once they become visibly yellow or show signs of hazing or cracking from degradation by contaminants.

Acrylume® Acrylic



- High luminaire efficiency
- Uplight and vertical illumination
- Brightness and glare control
- High uniformity

Borosilicate glass is a material with many attributes that make it an ideal solution for HID lighting. DuraBay prismatic glass can withstand operation in 65° C ambient temperatures without ever discoloring, turning yellow or deforming. Glass does not have a static charge that attracts dirt, so it remains cleaner longer with higher maintained luminaire efficiency than aluminum or acrylic. It also endures corrosive and oily environments better than any other material or finish. Original optical performance is easily restored with proper cleaning.

DuraBay high bay distributions have an uplight component of 20 to 25% that evenly illuminates the ceiling above. This reduces background contrast and perceived brightness of the luminaire creating a more visually comfortable environment. Uplight also contributes to better vertical illumination, greater uniformity and a more natural daylight feeling within a space. The prismatic design minimizes reflector side wall brightness by breaking up the reflected lamp image increasing visual comfort. Enclosed versions are available with a gasketed flat tempered glass lens door and optional charcoal filter. Applications include retail, manufacturing, warehousing, sports facilities and institutional buildings.

DuraBay open and enclosed glass high bays with aluminum shroud maximize downward efficiency and horizontal light levels similar to aluminum high bays, but with the benefits and performance of glass. These reflectors deliver highest maintained efficiency, superior durability in the toughest environments, and excellent glare and brightness control. Applications include heavy industrial, manufacturing, warehousing and sports facilities.

DuraBay® Borosilicate Glass



- Brightness & glare control
- · Uplight and vertical illumination
- · Highest maintained efficiency
- Oily and corrosive environments
- High ambient temperatures
- Longest service life



Die-Cast Aluminum Housings, Interchangeable Opticals

TH High Bay



Modular ballast housing for high bay opticals. Pre-attached adjustable legs accept a wide selection of anodized aluminum and prismatic acrylic high bay reflectors. A variety of distribution patterns at higher mounting heights can be achieved. These systems

provide minimum brightness and glare, and superior energy efficiency.

Large ballast housing utilized for optional high ambient temperature rating and for 450-1000W ballasts.

Housing	Reflector	Primary function	Typical mounting height	Page
TH	A14	Vertical illumination; aisleways.	18'-35'	368
TH	A15	Horizontal illumination.	18'-25'	366
TH	A16	High efficiencies; glare control.	18'-35'	364
TH	A17, A221	Optimum lamp shielding; glare control.	18'-40'+	362
TH	PA16,PA22, PA22E,PA22L	High efficiencies; vertical & horizontal illumination; uplight; glare control.	18'-35'	358
TH	PA22N,PA22SP, PA25 ¹	High efficiencies uplight; glare control; more narrow distributions for higher mounting heights.	20'-40'+	358

TX Low Bay



Modular ballast housing for enclosed low bay opticals. Accepts various heavy-duty aluminum and prismatic acrylic low bay optical assemblies. Designed to provide uniform, glare-free energy-efficient lighting. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point

of attachment and a fully gasketed lens door assembly.

Large ballast housing utilized for optional high ambient temperature ratings and for 450W ballasts

			Typical	
Housing	Optical Optical	Primary function	mounting height	Page
TX	A121, A125	Lower wattage; vertical and horizontal illumination.	8'-16'	375
TX	A162, A165	Vertical and horizontal illumination.	14'-20'	375
TX	PA22C	High efficiencies; vertical illumination with uplight; glare control.	14'-20'	361
TX	PA25D	High efficiencies; vertical and horizontal illumination; glare control.	14'-20'	361
TX	PA22GLE, PA25ALE	High efficiencies; vertical and horizontal illumination (higher mounting).	14'-25'	360
TX	A20	Lower wattage; premium glare control.	10'-16'	370
TX	A26	Vertical and horizontal illumination; premium glare control.	14'-20'	370
TX	A30	High efficiencies; vertical and horizontal illumination; glare control; low brightness.	14'-20'	371
TX	A23	High efficiencies; glare control; vertical and horizontal illumination.	14'-20'	372

NOTES:

 $1\quad \text{Suitable for 875W and 1000W using large ballast housing.}$



Provides reliable, simple installation of open glass and shrouded glass reflectors with heavy-gauge mounting brackets and sliding safety latches. Heavy-duty, die-cast splice box allows

flexibility for surface, through-wire or pendant

mounting. Distributions are designated in the catalog number and factory-preset. Large ballast housing utilized for optional high ambient temperature rating and for 450-1000W ballasts.

Housing	Reflector	Primary function	Mounting height	Page
TPG	PG16	Optimum efficiencies; balance of uplight and downward distribution.	16'-35'	354
TPG	PG16A	Provides downward distributions and softens lamp image.	16'-35'	355
TPG	PG21 ¹	Optimum efficiencies; balance of uplight and downward distribution.	20'-40'+	354
TPG	PG21A ¹	Provides downward distributions and softens lamp image.	20'-40'+	355

TPG Ballast Housing TPG Large Ballast Housing

Accepts enclosed and gasketed glass optical assemblies in both the standard and shrouded versions. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point of attachment and a fully gasketed lens ring assembly. Heavy-duty, die-cast splice box allows flexi-

bility for surface, through-wire or pendant mounting. Distributions are designated in the catalog number and factory-preset. Large ballast housing utilized for optional high ambient temperature rating and 450-1000W ballasts.

Housing	Reflector	Primary function	Mounting height	Page
TPGE	PG16GLE	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.	16'-35'	356
TPGE	PG16AGLE	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.	16'-35'	357
TPGE	PG21GLE ¹	Optimum efficiencies and a balance of uplight and downward distributions while providing total enclosure of the lamp.	20'-40'+	356
TPGE	PG21AGLE ¹	Provides downward distributions and softens lamp image while providing total enclosure of the lamp.	20'-40'+	357

TPGE Enclosed Glass High Bay

TPG Open Glass High Bay



Designed for E17 and E22 totally enclosed aluminum optical assemblies. Opticals are equipped with a heat-resistant, dust-inhibiting gasket at the point of attachment and a fully-gasketed lens ring assembly. Distributions are

designated in the catalog number and factorypreset. Large ballast housing utilized for optional high ambient temperature rating and 450-1000W ballasts.

Housing	Reflector	Primary function	Mounting height	Page
TE	E17	Totally enclosed optics, optimum lamp shielding and glare control.	20'-40'+	363
TE	E221	Totally enclosed optics, optimum lamp shielding and glare control.	25'-40'+	363

TE Enclosed Aluminum High Bay



TXF Low Bay

Designed for food processing areas and wet location applications. These assemblies feature fully gasketed construction, special FDA/USDA-compliant materials and finish, stainless steel and corrosion-resistant hardware with no ex-

posed threads and NSF certification. These systems provide glare-free, energy-efficient lighting. Large ballast housing is standard for optimal operating temperature.

Housing	Optical	Primary function	Mounting height	Page
TXF	A30F	High efficiencies; vertical & horizontal illumination; glare control; low brightness. Hose-down tested to 1200psi, IP65 rated. Wet location listed.	14'-20'	374
TXF	PA25ALEF	High efficiencies; vertical and horizontal illumination; glare control. IP65 rated. Wet location listed.	14'-25'	374

NOTES:

 $1\quad \text{Suitable for 750W, 875W and 1000W using large ballast housing.}$





SH High Bay



Modular ballast housing for high bay opticals.

Pre-attached adjustable legs accept a wide selection of anodized aluminum and prismatic acrylic high bay reflectors. A variety of distribution patterns at higher mounting heights can be achieved. These systems provide

minimum brightness and superior energy efficiency. Ventilated design optimizes thermal performance of enclosed electronic ballast housing. Optional heat shield provided for high ambient temperature rating.

Housing	Reflector	r Primary function		Page
SH	A14	Vertical illumination aisleways.	18'-35'	369
SH	A15	Horizontal illumination.	18'-25'	367
SH	A16 A16GL	High efficiencies; glare control.	18'-35'	365
SH	PA22	2 High efficiencies; vertical & horizontal illumination; uplight; glare control.		359
SH	High afficiencies: vertical & horizontal illumination: unlight; glare control:		20'-40'+	359

SX Low Bay



Modular ballast housing for enclosed low bay opticals. Accepts heavy-duty aluminum optical assembly. Designed to provide uniform, glarefree energy-efficient lighting. Optical are equipped with a heat-resistant, dust-inhibitive

gasket at the point of attachment and a fully gasketed lens door assembly. Ventilated design optimizes thermal performance of enclosed electonic ballast housing. Optional heat shield provided for high ambient temperature rating.

Housing	Optical	Primary function	Mounting height	Page
SX	A23	High efficiencies; glare control; vertical and horizontal illumination.	14'-20'	373

SPG High Bay



Modular ballast housing for open glass high bay opticals. Provides reliable, simple installation of open glass and shrouded glass reflectors with heavy-gauge mounting brackets and sliding safety latches. Distributions are designated in the

catalog number and factory-preset. Vented design optimizes thermal performance of enclosed electronic ballast housing. Optional heat shield provided for high ambient temperature rating.

Housing	Reflector	Primary function	Mounting height	Page
SPG	PG15	Optimum efficiencies; balance of uplight and downward distribution.	16'-35'	353



For high mounting heights that require high efficiencies, horizontal and vertical illumination and premium contrast control. Ideal for retail and warehouse applications. Steel ballast housing (SPG) should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast - Electronic ballast is 100% factory tested. Ballast will operate pulse start metal halide lamps only from 200-277V.

Optics - High-efficiency, high-performance, heat-resistant borosilicate glass reflector is mounted with a heavy-guage rigid wire form fitted to top of reflector. Opticals have a self-clean-

ing, ventilated design that carries optical contaminants out through top of reflector for maximum performance. Prismatic glass controls glare, reduces reflector-side wall brightness, and adds uplight component for greater visual comfort and improved uniformity.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 34" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

DuraBay™



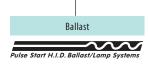
Example: SPG 400M PG15 M 277 GEB SC3P

Ordering Information

Wattage Series Metal halide protected1 SPG 320MP 350MP 400MP Metal halide 400M

Optical PG15

Voltage Distribution (select one) Narrow 208 N Concentrating 240 Medium 277 M TVOLT2 S Spread W Widespread



GEB Electronic ballast

Pulse start metal halide

See pages 384-385 for details.

Options/Accessories
See pages 386-397. HID lamps are avail able with luminaires. Consult factory.

Lamp/fixture data								
	Standard	We	eight		Sp	acing	crite	ria
Wattage	ballast	lbs.	kgs.	N	C	М	S	W
Metal hali	de (mog/clear)							
400	GEB	21	9.5	0.7	1.0	1.3	1.7	2.1

Drawings are for dimensional detail only and may not represent actual mechanicalconfiguration. Dimensions are shown in inches (centimeters) unless otherwise noted.

NOTES:

- See page 385 for details on protected sockets.
- $2 \quad Tri-volt electronic ballast capable of operating on any line voltage between 200V$ and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.

SPG PG15 Overallheight: 20-7/16 (51.95) Reflectorheight: 10-9/16(26.85) Diameter: 15-9/16(39.56)





TPG

DuraBay™



Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, and premium contrast control. Optimum performance for high ambient temperatures and dirty environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – High-efficiency, high-performance, heat-resistant borosilicate glass reflector mounted within heavy-gauge rigid wire form rings and rods fitted to top of reflector and bottom of reflector. Yields high vertical footcandles

with low brightness and excellent contrast control. Self-cleaning, ventilated design carries optical contaminants out through top of reflector.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulse-start -30°C to 40°C.

Ordering Information

Ser

	3						
ries	Wattage	Optical	Dis	stribut	ion (sel	ect o	ne)
PG		High pres	sure sod	lium			
	1505	PG16	N	C	М	S	W
	2005	PG16	-	C	M	S	W
	2505	PG16	-	C	M	S	W
	4005	PG16	_	C	M	S	W
	4005	PG21	-	C21	-	_	_
	10005	PG21	-	_	M21	_	-
		Metal hali	de prote	cted1			
	175MP	PG16	N	C	М	S	W
	200MP	PG16	N	C	M	S	W
	250MP	PG16	N	C	M	S	W
	320MP	PG16	N	C	M	S	W
	350MP	PG16	N	C	M	S	W
	400MP	PG16	N	C	M	S	W
	450MP	PG16	N	C	M	S	W
	200MP	PG21	N21	-	-	-	-
	350MP	PG21	N21	-	-	-	-
	400MP	PG21	N21	-	-	-	-
	450MP	PG21	N21	-	-	-	-
	875MP	PG21	-	C21	-	_	_
	1000MP	PG21	-	C21	-	-	-
		Meta	l halide				
	400M	PG16	N	C	М	S	W
	400M	PG21	N21	_	-	_	_
	1000M	PG21	_	C21	-	_	_

Voltage
120
208^{2,3}
240^{2,3,4}
277
347
480^{2,3}
TB⁵
TBV⁶

Metal halide and high pressure sodium
82.3 (blank) Standard magnetic ballast
CWI Constant wattage isolated
MRB Magnetic regulator ballast
MRB Magnetic regulator ballast

Pulse Start H.I.D. Ballast/Lamp Systems
Pulse start metal halide
LLRPSL Linear reactor pulse start
SCWA Super Constant wattage
autotransformer
LLSCWA Low loss SCWA

RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.

N = Narrow
C = Concentrating
M = Medium

S = Spread W = Widespread

Example: TPG 400MP PG16 M TB SCWA QRS

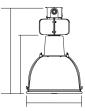
Options/Accessories

 $See pages 386\hbox{-}397. HID \, lamps \, are \, available \\ with \, luminaires. \, Consult factory.$

Lamp/fixture data										
-	Standard Weight					Spacing criteria				
Wattage	ballast	lbs.	kgs.		N	C	М	S	W	
High pressure	High pressure sodium (mog/clear)									
150 (PG16)	CWA	32	15		0.7	1.0	1.3	1.7	2.0	
200 (PG16)	CWA	35	16		-	8.0	1.2	1.6	1.9	
250 (PG16)	CWA	35	16		-	8.0	1.2	1.6	1.9	
400 (PG16)	CWA	38	17		-	8.0	1.2	1.7	2.0	
400 (PG21)	CWA	55	25		-	1.1	-	-	-	
1000 (PG21)	CWA	55	25		-	-	1.5	-	-	
Metal halide (mog/clear)										
400 (PG 16)	CWA	36	16		0.7	1.0	1.3	1.7	2.0	
400 (PG21)	CWA	55	25		0.7	_	-	_	-	
1000 (PG21)	CWA	55	25		-	0.9	-	-	-	

 $Drawings \ are for dimensional \ detail \ only \ and \ may \ not \ represent \ actual \ mechanical \ configuration. Dimensions \ are shown in \ inches \ (centimeters) \ unless \ otherwise \ noted.$





TPGPG21
Overall height: 28 (71.1)
Reflector height: 19-1/2 (49.5)
Diameter: 22 (55.9)



- $1\quad \mathsf{See}\,\mathsf{page}\,\mathsf{385}\,\mathsf{for}\,\mathsf{details}\,\mathsf{on}\,\mathsf{protected}\,\mathsf{sockets}.$
- ${\small 2} \quad {\small Requires\,CWI\,or\,RLB\,option\,in\,Canada\,formetal\,halide.\,Available\,for\,175-450W} \\ \quad {\small only.}$
- 3 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).



For high mounting heights that require high efficiencies, horizontal illumination and premium contrast control. Optimum performance for high ambient temperature and dirty environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cooler opera-

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, high-performance, heat-resistant borosilicate glass reflector with aluminum shroud to protect glass prisms from oily dirt accumulation, emphasizing downward efficiency. Self-cleaning, ventilated design carries optical contaminants out through top of reflector.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Cast-aluminum pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 55°C). 875W and 1000W pulse-start -30°C to 40°C.

DuraBay™



Ordering Information

Series	Wattage	Optical	Di	stribut	ion (sele	ct on	e)			
TPG		High pre	ssure soo	ure sodium						
	1505	PG16A	N	C	М	S	W			
	2005	PG16A	_	C	M	S	W			
	250\$	PG16A	_	C	M	S	W			
	4005	PG16A		C	M	S	W			
	400S	PG21A		C21	_	_	_			
	10005	PG21A	_	_	M21	_				
		Metal hal	ide prote	ected1						
	175MP	PG16A	_	C	M	S	W			
	200MP	PG16A	_	C	M	S	W			
	250MP	PG16A	_	C	M	S	W			
	320MP	PG16A	_	C	M	S	W			
	350MP	PG16A	-	C	M	S	W			
	400MP	PG16A	_	C	M	S	W			
	450MP	PG16A	-	C	M	S	W			
	350MP	PG21A	N21	-	-	_	_			
	400MP	PG21A	N21	_	_	_	_			
	450MP	PG21A	N21	-	-	_	_			
	875MP	PG21A	-	C21	-	_	_			
	1000MP	PG21A	-	C21	-	_	_			
		Metal halide								
	400M	PG16A	N	C	М	S	W			
	400M	PG21A	N21	-	-	_	-			
	1000M	PG21A	_	C21	-	_	-			

Voltage	Ballast
120 208 ^{2,3} 240 ^{2,3,4} 277	Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast
347 480 ^{2,3}	Pulse Start H.I.D. Ballast/Lamp Systems

TR⁵

TBV⁶

C = Concentrating M = Medium S = Spread

W = Widespread

Pulse start metal halide LLRPSL Linear reactor pulse start **SCWA** Super constant wattage autotransformer **LLSCWA** Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.

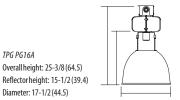
Example: TPG 400MP PG16A M TB HC3P

Options/Accessories
See pages 386-397. HID lamps are available
with luminaires. Consult factory.

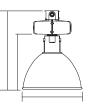
criteria S W								
S W								
High pressure sodium (mog/clear)								
1.4 1.6								
3 1.7 2.0								
3 1.7 2.0								
1.7 2.0								
5 –								
3 1.7 2.1								

- 1 See page 385 for details on protected sockets.
- 2 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- 3 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

 $Drawings\ are\ for\ dimensional\ detail\ only\ and\ may\ not\ represent\ actual\ mechanical\ configuration.\ Dimensions\ are\ shown\ in\ \textbf{inches}$ (centimeters) unless otherwise noted.



TPG PG21A Overall height: 27-5/8 (70.2) Reflector height: 19-1/2 (49 5) Diameter: 22 (55.9)



www.lithonia.com, keyword: TPG-A

TPG PG16A

Diameter: 17-1/2 (44.5)



TPGE

DuraBay™



Intended Use

For high mounting heights that require high efficiencies, horizontal and vertical illumination, and premium contrast control. Optimum performance for high ambient temperatures and harsh environments. Ideal for heavy manufacturing areas, retail, warehouse aisles and gymnasiums.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, high performance heatresistant borosilicate glass reflector mounted within a heavy-gauge rigid wire form. Yields high vertical foot candles with low brightness and excellent contrast control. Cast-aluminum upper enclosure and corrosion-resistant steel flange and clear tempered glass lens are fully gasketed. Lens assembly hinged and triple latched for tight seal and easy maintenance.

Socket - Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Installation - Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 750W, 875W and 1000W pulse-start -30°C to 40°C.

Ordering Information

Voltage Series Wattage Optical Distribution (select one) Ballast TPGE High pressure sodium 120 Metal halide and high pressure sodium **208**1,2 (blank) Standard magnetic ballast 1505 PG16GLE C **240**^{1,2,3} CWI Constant wattage isolated 2005 PG16GLE C M 277 MRB Magnetic regulator ballast PG16GLE М W **250S** C S 347 4005 PG16GLE C M S W 480 4005 PG21GLE **C21** TB⁴ Pulse start metal halide 10005 PG21GLE **C21** TBV⁵ LLRPSL Linear reactor pulse start Metal halide SCWA Super constant wattage 175M W autotransformer PG16GLE **LLSCWA** Low loss SCWA 200M G16GLE N W RLB Regulated lag ballast 250M PG16GLE N C Isolated SCWA 320M PG16GLE N M C PG16GLE М W See pages 384-385 for details. 350M N C M w PG16GLE N 400M C 450M PG16GLE N C M W 350M PG21GLE N21 PG21GLE N21 400M 450M PG21GLE N21 N = Narrow 750M PG21GLE N21 = Concentrating 875M PG21GLE N21 M = Medium **C21** 1000M PG21GLE

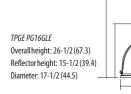
Example: TPGE 400M PG16GLE M TB SCWA

Options/Accessories

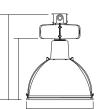
 $See pages\,386\text{--}397.\,HID\,lamps\,are\,available$ with luminaires. Consult factory.

Lamp/fixture data									
	Standard	Wei	ght		Spacing criteria				
Wattage	ballast	lbs.	kgs.	N	C	М	S	W	
High pressure sod	ium (mog/c	lear <u>)</u>							
150 (PG16GLE)	CWA	32	15	-	0.9	1.3	1.5	1.8	
200 (PG16GLE)	CWA	35	16	-	0.9	1.5	1.7	2.0	
250 (PG16GLE)	CWA	35	16	-	0.9	1.5	1.7	2.0	
400 (PG16GLE)	CWA	38	17	-	8.0	1.3	1.7	2.2	
400 (PG21GLE)	CWA	55	25	-	1.0	-	-	-	
1000 (PG21GLE)	CWA	55	25	-	1.4	-	-	-	
Metal halide (mo	g/clear)								
175 (PG16GLE)	CWA	36	16	0.6	0.8	1.3	1.6	1.9	
250 (PG16GLE)	CWA	36	16	0.6	8.0	1.3	1.6	1.9	
400 (PG16GLE)	CWA	38	17	0.7	0.9	1.3	1.6	1.9	
400 (PG21GLE)	CWA	55	25	0.9	-	_	_	_	
1000 (PG21GLE)	CWA	55	25	-	1.2	_	_	_	

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



TPGF PG21GI F Overall height: 28-1/2 (72.4) Reflectorheight: 19-1/2 (49.5) Diameter: 22 (55.9)



= Spread W = Widespread

- 1 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- ${\bf 2} \quad {\bf Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,high\,pressure\,sodium.\,Available\,for}$ 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).



For high mounting heights that require high efficiencies, horizontal illumination and premium contrast control. Optimum performance for high ambient temperatures and harsh environments. Ideal for heavy manufacturing areas, retail and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory ttested. High power factor ballast with a minimum of class H insulation.

Optics – High-efficiency, high performance heatresistant borosilicate glass reflector mounted in heavy-gauge rigid wire form. Aluminum shroud protects glass prisms from oily dirt accumulation, emphasizing downward efficiency. Cast-aluminum upper enclosure, corrosion-resistant steel flange and clear tempered glass lens are fully gasketed to inhibit entrance of ambient contaminants. Lens assembly is hinged and triple latched for tight seal and easy maintenance.

Socket – Glazed porcelain, vertically oriented, mogul base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV. 5KV pulse rated for 1000S.

Installation – Cast-aluminum pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 750W, 875W and 1000W pulse-start -30° C to 40° C.

Voltage

120

277

347

TB⁴

TBV⁵

480^{1,2}

208^{1,2}

240^{1,2,3}

TPGE

DuraBay™



Ordering Information

Series Wattage **Optical** Distribution (select one) High pressure sodium **TPGE** 150S PG16AGLE 2005 PG16AGLE M C S W PG16AGLE M S W **250S** C 4005 PG16AGLE (M S W **400S** PG21AGLE **C21** 1000S PG21AGLE **C21** Metal halide 175M PG16AGLE N 200M PG16AGLE 250M PG16AGLE N C S W 320M PG16AGLE N C М 350M PG16AGLE N C W 400M PG16AGLE PG21AGLE 400M N21 750M PG21AGLE N21 875M PG21AGLE N21 1000M PG21AGLE **C21**

 $\begin{array}{ll} {\sf N} &= {\sf Narrow} \\ {\sf C} &= {\sf Concentrating} \end{array}$

 $\begin{array}{ll} \mathsf{M} &= \mathsf{Medium} \\ \mathsf{S} &= \mathsf{Spread} \end{array}$

S = Spread W = Widespread

NOTES:

- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- $\label{eq:continuity} 4 \quad \text{Optional multi-tap ballast} (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).$
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Example: TPGE 400M PG16AGLE M 277 HOCS

Ballast

Metal halide and high pressure sodium
(blank) Standard magnetic ballast

CWI Constant wattage isolated

MRB Magnetic regulator ballast

Pulse Start H.I.D. Ballast/Lamp Systems
Pulse start metal halide
LLRPSL Linear reactor pulse start

Super constant wattage

autotransformer

LLSCWA Low loss SCWA

RLB Regulated lag ballast

SCWI Isolated SCWA

See pages 384-385 for details.

SCWA

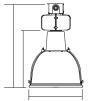
Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

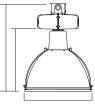
Lamp/fixture data									
	Standard Weight					Spacing criteria			
Wattage	ballast	lbs.	kgs.	N	C	M	S	W	
High pressure sodiu	High pressure sodium (mog/clear)								
150 (PG16AGLE)	CWA	32	15	-	8.0	1.2	1.5	1.8	
200 (PG16AGLE)	CWA	35	16	-	1.6	1.8	2.0	2.2	
250 (PG16AGLE)	CWA	35	16	-	1.6	1.8	2.0	2.2	
400 (PG16AGLE)	CWA	38	17	-	1.2	1.6	1.8	2.0	
400 (PG21AGLE)	CWA	55	25	-	1.0	-	-	_	
1000 (PG21AGLE)	CWA	55	25	_	8.0	-	-	_	
Metal halide (mog	/clear)								
175 (PG16AGLE)	CWA	36	16	_	1.3	1.5	1.7	2.0	
250 (PG16AGLE)	CWA	36	16	_	1.3	1.5	1.7	2.0	
400 (PG16AGLE)	CWA	36	16	0.8	1.2	1.4	1.6	1.9	
400 (PG21AGLE)	CWA	55	25	0.8	-	-	-	_	
1000 (PG21AGLE)	CWA	55	25	-	1.1	-	-	-	

 $Drawings \, are \, for \, dimensional \, detail \, only \, and \, may \, not \, represent \, actual \, mechanical \, configuration. \, Dimensions \, are \, shown \, in \, \textbf{inches} \, (\textbf{centimeters}) \, unless \, otherwise \, noted.$

TPGE PG16AGLE
Overall height: 26-1/8 (66.4)
Reflector height: 15-1/2 (39.4)
Diameter: 17-1/2 (44.5)



TPGE PG21AGLE
Overallheight: 28-1/2 (72.4)
Reflectorheight: 19-1/2 (49.5)
Diameter: 22 (55.9)





LITHONIA INDOOR HID

358

TH PA22 TH PA25

Acrylume®



Intended Use

For high mounting heights that require higher efficiencies, general horizontal/high vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic **Environmental Compatibility Chart on page** 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - UV-stabilized, high-efficiency, high-performance acrylic reflector yields high vertical footcandles while maintaining low brightness. Optical assembly is fully adjustable & accommodates a range of light distributions, while providing approximately 15-20% uplight. Open opticals are self cleaning - ventilated design carries contaminants out top of reflector. Enclosed optical utilizes clear, tempered-glass lens. Hinged and latched for easy maintenance. Coated lamps provide optimum performance.

Socket - Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. Protected version with pink exclusionary socket. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Pendant splice box (PSB) threaded for 34" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations.

Example: TH 350MP PA22 TB SCWA FWG

Ordering Information

Series	Wat
TH	
	25
	25
	25
	40
	40
	100
	200
	200
	250
	320
	350
	400
	450
	875
	1000

Wattage	Optical Optical
	High pressure sodium
250S	PA16
250S	PA22 or PA22N
2505	PA22L ²
4005	PA22 or PA22N
4005	PA22L ²
10005	PA25
1	Metal halide protected ¹
200MP	PA22, PA22N orPA22SP
250MP	PA22, PA22N or PA22SP
320MP	PA22, PA22N orPA22SP
350MP	PA22, PA22N or PA22SP
400MP	PA22, PA22N or PA22SP
450MP	PA22, PA22N or PA22SP
875MP	PA25
1000MP	PA25
	Metal halide
175M	PA22E ³
200M	PA22E ³
250M	PA22E ³
400M	PA22, PA22N or PA22SP
400M	PA22L ²
1000M	PA25

Voltage		Ballast
120 208 ^{4,5} 240 ^{4,5,6} 277 347	Metal hal (blank) CWI MRB	ide and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast
480 ^{4,5}	Pulse Sta	rt H.I.D. Ballast/Lamp Systems
TB ⁷	Pulse star	rt metal halide
TBV ⁸	LLRPSL	Linear reactor pulse start
	SCWA	Super constant wattage
	LLSCWA	Low loss SCWA
	RLB	Regulated lag ballast (175- 400W)

PA16 = Standard PA22N = Narrow PA22SP = Concentrated PA22F = Standard PA22L Standard PA25 Standard

Options/ Accessories See pages 386-397. **HID lamps are** available with luminaires. Consult factory

Lamp/fixture data							
	Standard	Wei	ght	S/mtg.			
Wattage	ballast	lbs.	kgs.	height			
High pressure sodium (mog/coated)							
250 (PA16)	CWA	21	10	1.2 to 1.9			
400 (PA22)	CWA	35	16	1.3 to 2.0			
250 (PA22N)	CWA	21	10	0.8 to 2.0			
400 (PA22N)	CWA	35	16	0.8 to 2.0			
1000 (PA25)	CWA	48	22	1.3 to 2.2			
Metal halide (mod	g/coated)						
175 (PA22E)	CWA	20	9	1.3 to 2.0			
250 (PA22E)	CWA	22	10	1.3 to 2.0			
400 (PA22)	CWA	31	14	1.2 to 2.1			
400 (PA22N)	CWA	31	14	0.8 to 2.1			
400 (PA22SP)	CWA	31	14	0.8 to 2.1			
1000 (PA25)	CWA	40	18	1.6 to 2.2			
	High pressure sodi 250 (PA16) 400 (PA22) 250 (PA22N) 400 (PA22N) 1000 (PA25) Metal halide (mod 175 (PA22E) 250 (PA22E) 400 (PA22) 400 (PA22N)	Standard	Wattage ballast lbs. High pressure sodium (mog/coated) 250 (PA16) CWA 21 400 (PA22) CWA 35 250 (PA22N) CWA 21 400 (PA22N) CWA 35 1000 (PA25) CWA 48 Metal halide (mog/coated) T75 (PA22E) CWA 20 250 (PA22E) CWA 22 400 (PA22) CWA 31 400 (PA22N) CWA 31 400 (PA22SP) CWA 31	Wattage Standard ballast Weight kgs. High pressure sodium (mog/coated) 250 (PA16) CWA 21 10 400 (PA22) CWA 25 16 16 250 (PA22N) CWA 21 10 10 400 (PA22N) CWA 25 16 10 1000 (PA25) CWA 48 22 Metal halide (mog/coated) T75 (PA22E) CWA 20 9 250 (PA22E) CWA 20 9 250 (PA22E) CWA 31 14 400 (PA22N) CWA 31 14 400 (PA22SP) CWA 31 14			

Ambient Parameters	-30°to 25°C (-22°to 131°F)	-30°to40°C (-22°to77°F)	-30°to55°C (-22°to104°F)
TH250SPA16, PA22/PA22N/PA22SP			
TH175M, 250MPA22E			
TH400M, 400SPA22/PA22N/PA22SP			
TH400M,400SPA22L			
TH1000M, 1000SPA25			

■=COMPATABILITY

See page 385 for details on protected sockets.

SCWI Isolated SCWA (400W) See pages 384-385 for details

- Lensed bottom, open top. Periodic cleaning maintains performance. Does not meet UL lamp rupture containment.
- Enclosed bottom, open top. Meets UL lamp rupture containment standards. Periodic cleaning maintains performance.
 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for
- 70-400W only. 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide
- and high pressure sodium lamps.
 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada). Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

TH PA25



Reflector height: 14 (35.6) Varies with distribution Overall height: 23to 26-3/8 (58.4to 62) Diameter: 25-1/2 (64.8)



light**guick°X0** Express delivery products. See page11 for details about LightQuick XD. Description

TH 400 PA22 TB

TH PA16 Reflector height: 10-3/4(27.3) Varies with distribution

noted.

Overall height 20-5/8to26(52.4to66) Diameter: 16-1/4(41.3) TH PA22/PA22I Reflector height: 13-1/2(34.3) Varies with distribution. Overall height: 20-5/8to26(52.4to66) Diameter: 22-3/8 (56.8)



 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ $configuration. \, Dimensions \, are shown \, in \, \textbf{inches} \, \textbf{(centimeters)} \, unless \, otherwise$

www.lithonia.com, keywords: TH-PA22 or TH-PA25

For high mounting heights that require higher efficiencies, high horizontal/vertical illumination and premium contrast control. Ideal for light manufacturing areas, warehouse and retail aisles. Steel ballast housings should be used in areas with minimal airborne contaminants. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics – UV-stabilized, high-efficiency, high-performance acrylic refractor yields high horizontal

footcandles while maintaining low brightness. Optical assembly is fully adjustable, accommodates a range of light distributions while providing approximately 15–20% uplight. Self-cleaning, ventilated design carries optical contaminants out top of refractor. Coated lamps provide optimum performance.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) standard. Pendant splice box with top entry for ³/₄" conduit also available with other mounting options. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

SH PA22

Acrylume®

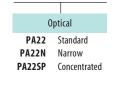


Example: SH 400M PA22 277 GEB SC3P

Series SH

Ordering Information







Pulse Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

GEB Electronic ballast

Seepages 384-385 for details.

Options/Accessories
See pages 386-397. HID lamps are avail-
able with luminaires. Consult factory.

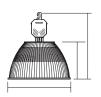
Lamp/fixture data				
	Standard	We	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
Metal halide (mog/coated)				
400 (PA22)	GEB	14	6.5	1.2 to 2.1
400 (PA22N)	GEB	14	6.5	0.8 to 2.1
400 (PA22SP)	GEB	14	6.5	0.8 to 2.1
` '				

NOTES:

- 1 See page 385 for details on protected sockets.
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} ({\it centimeters}) unless otherwise noted.$

Reflector height: 13-1/2 (34.3) Diameter: 22-3/8 (56.8) Overall height: 20-5/8 to 26(52.4 to 66) Varies with distribution.



Ambient Parameters	-30°to25°C (-22°to77°F)	-30°to40°C (-22°to104°F)	-30°to55°C (-22°to131°F)
SH400MPA22/PA22N/PA22SP			
			- COMPATABILITY



TXPA22GLE **TXPA25ALE**

Acrylume®



Intended Use

For controlled environments that require vertical and high horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - Injection-molded, virgin acrylic reflector with clear, tempered glass lens enclosure. UV-stabilized reflector. Lens is tempered glass for 22" reflector and flat clear acrylic for 25" reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed lens and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum perfor-

Socket - Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. -30°C to 40°C ambient operations (High Ambient HA option for 55°C).

Ordering Information

Series TX

Watt	tage		0pt	ical
High p	ressure :	sodium	, 22" glass	lens
50	S		PA2	2GLE
400)S		PA2	2GLE
High p	ressure s	odium,	25" acryli	c lens
250)S		PA2	5ALE
400	S		PA2	5ALE
M	etal hali	de, 22"	glass lens	;
175	M		PA2	2GLE
200	M		PA2	2GLE
250	M		PA2	2GLE
320	M		PA2	2GLE
350	M		PA2	2GLE
400	M		PA2	2GLE
450	M		PA2	2GLE
Me	etal halio	le, 25"	acrylic len	S
200	M		PA2	5ALE
250	M		PA2	5ALE
320	M		PA2	5ALE
350	M		PA2	5ALE
400	M		PA2	5ALE
450	M		PA2	5ALE

luminaires. Consult factory.

250(PA25ALE)

400(PA25ALF)

Options/Accessories

See pages 386-397. HID lamps are available with

oltage		Ballast
120 208 ^{1,2} 240 ^{1,2,3} 277	Metal hali (blank) CWI MRB	ide and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast
347 480 ² ГВ ⁴		rt H.I.D. Ballast/Lamp Systems t metal halide

Super constant wattage SCWA autotransformer LLSCWA Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA See page 384-385 for details.

LLRPSL Linear reactor pulse start

Example: TX 400M PA22GLE 277 SCWA HOCS

Lamp/fixture data					
	Standard	We	ight	S/mtg.	
Wattage	ballast	lbs.	kgs.	height	
High pressure sodium (mog/clear)					
250(PA22GLE)	CWA	33	15	1.6	
400 (PA22GLE)	CWA	36	16	1.6	
250(PA25ALE)	CWA	39	18	1.1	
400 (PA25ALE)	CWA	39	18	1.1	
Metal halide (mog/o	:lear)				
250(PA22GLE)	CWA	30	14	1.7	
400 (PA22GLE)	CWA	33	15	1.7	
	High pressure sodiu 250 (PA22GLE) 400 (PA22GLE) 250 (PA25ALE) 400 (PA25ALE) Metal halide (mog/o 250 (PA22GLE)	Standard Wattage ballast High pressure sodium (mog/clear) 250(PA22GLE) CWA 400(PA22GLE) CWA 250(PA25ALE) CWA 400(PA25ALE) CWA Metal halide (mog/clear) 250(PA25GLE) CWA	Wattage Standard ballast We lbs. High pressure sodium (mog/clear) 250 (PA22GLE) CWA 33 400 (PA22GLE) CWA 36 250 (PA25ALE) CWA 39 400 (PA25ALE) CWA 39 Wetal halide (mog/clear) 250 (PA25GLE) CWA 30	Wattage Standard ballast Weight lbs. Weight lbs. kgs. High pressure sodium (mog/clear) 250 (PA22GLE) CWA 33 15 400 (PA22GLE) CWA 36 16 250 (PA25ALE) CWA 39 18 400 (PA25ALE) CWA 39 18 Metal halide (mog/clear) 250 (PA22GLE) CWA 30 14	Standard Weight S/mtg.

35 16

35

1.2

12

CWA

CWA

Ambient Parameters	-30°to25°C (-22°to77°F)	-30° to 40°C (-22° to 104°F)	-30°to55°C (-22°to131°F)
TX250S, 250MPA22GLE			
TX400S, 400MPA22GLE			
TX250S, 250MPA25ALE			
TX400S, 400MPA25ALE			
TX450MPA25ALE			

Drawings are for dimensional detail only and may not represent actual mechanical $configuration. \ Dimensions \ are shown in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise$ noted.

TX PA22GLE Overall height: 24-1/2 (62.2) Reflector height: 17-1/2 (44.5) Diameter: 23-3/8(59.4)



TX PA25ALF Overallheight: 26-3/8 (66.9) Reflector height: 15-3/8 (38) Diameter: 25-3/4(65.4)

TRV5



- 1 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- 2 Requires CWI or MRB option in Canada for HP. Available for 70-400W only.

= COMPATABILITY

- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).



For controlled environments that require a balance between high vertical and horizontal illumination. Ideal for retail areas, light manufacturing areas and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing: Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – Injection-molded, virgin acrylic reflector and drop (PA25D) or conical (PA22C) lens. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor

and reflector inhibit the entrance of ambient contaminants. Meets UL lamp rupture containment specifications. Coated lamps provide optimum performance.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation: Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available. Protect reflector from breakage. Use full wire guard (FWG) option for areas where reflectors are susceptible to impact.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. -30°C to 40°C ambient operations. UL wet location available.

TX PA22C TX PA25D

Acrylume®



Example: TX 400M PA22C 120 SF QRS

Ordering Information

Series **TX**

Wattage		Optical 0
High pressure sodi	um, 22"	acrylic conical len
250\$		PA22C
400S		PA22C
High pressurem so	dium, 2	5" acrylic drop len
250\$		PA25D
400S		PA25D
Metal halide,	22" acry	lic conical lens
175M		PA22C
200M		PA22C
250M		PA22C
320M		PA22C
350M		PA22C
400M		PA22C
450M		PA22C
Metal halide,	, 25" acı	ylic drop lens
175M		PA25D
200M		PA25D
250M		PA25D
320M		PA25D
350M		PA25D
400M		PA25D
450M		PA25D

Voltage
120
208^{1,2}
240^{1,2,3}
277
347
480^{1,2}
TB⁴
TBV⁵

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast Pulse Start H.I.D. Ballast/ Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer LLSCWA Low loss SCWA RI R Regulated lag ballast SCWI Isolated SCWA See page 384-385 for details.

NOTES:

- 1 Requires CWI option in Canada for metal halide, available for 175-450W only. Not available for 250W in 480V.
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000W metal halide and high pressure sodium (CWA only).

Ambient Parameters	-30° to 25°C	-30° to 40°C	-30° to 55°C
	(-22° to 77°F)	(-22° to 104°F)	(-22° to 131°F)
TX250S,250MPA22C			
TX250S,250MPA25D			
TX400S,400MPA22C			
TX400S,400MPA25D			

= COMPATABILITY

Options/Accessories

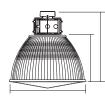
See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data					
	Standard	We	ight	S/mtg.	
Wattage	ballast	lbs.	kgs.	height	
High pressure sodiu	m(mog/coated)				
250 (PA22C)	CWA	31	14	2.7	
250 (PA25D)	CWA	34	15	2.4	
400 (PA22C)	CWA	31	14	2.7	
400 (PA25D)	CWA	34	15	2.4	
Metal halide (mog/	<u>'coated)</u>				
250 (PA22C)	CWA	31	14	3.0	
250 (PA25D)	CWA	31	13	2.8	
350 (PA22C)	CWA	31	14	2.8	
350 (PA25D)	CWA	31	13	2.5	
400 (PA22C)	CWA	31	14	2.8	
400 (PA25D)	CWA	30	13	2.8	

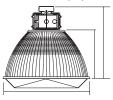
Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TX PA22C

Overall height: 22-3/4 (57.8) Refractor height: 15-3/4 (40) Diameter: 22-3/8 (56.8)



TXPA25D Overall height: 22-1/8 (56.2) Refractor height: 17-1/8 (43.5) Diameter: 25-1/2 (64.8)





THA 17 THA 22

Hi-Tek®



Ordering Information



Wattage		Optical
High p	oressure soc	lium
705		A17
1005		A17
1505		A17
2005		A17
2505		A17
4005		A17
1000S		A22
Metal I	halide prote	cted1
175MP		A17
200MP		A17
250MP		A17
320MP		A17
350MP		A17
400MP		A17
450MP		A17
875MP		A22
1000MP		A22
N	letal halide	
400M		A17
1000M		A22

Intended Use

For high mounting heights that require high efficiencies, horizontal illumination and premium glare control. Ideal for manufacturing areas and aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cool operation

Ballast –100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – Premium spun aluminum, anodized reflector combines high efficiency with extended shielding angles for high performance. Exclusive fluted design minimizes arc tube voltage rise. Optical system is adjustable and accommodates

the full range of industrial light distributions. Self-cleaning, ventilated design carries optical contaminants out through open top of reflector.

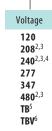
Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

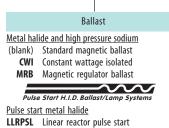
Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulse-start - 30°C to 40°C.

Example: TH 400M A17 277 SCWA F1





LIRPSL Linear reactor pulse start

SCWA Super constant wattage autotransformer

LLSCWA Low loss SCWA

RLB Regulated lag ballast

SCWI Isolated SCWA See pages 384-385 for details.

Ontions/Accessories

See pages 386-397. HID lamps are availabel with luminaires. Consult factory.

NOTES:

- 1 See page 385 for details on protected sockets.
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- Requires CWlor MRBoption in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W, 1000 W metal halide and high pressure sodium (CWA only).

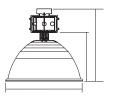
	Lamp/fixt	ure data		
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure soo	lium (mog/clear)		
70	HX-HPF	16	8	0.9 to 1.8
100	HX-HPF	17	8	0.9 to 1.8
150	HX-HPF	17	8	0.9 to 1.8
200	CWA	19	9	0.8 to 2.0
250	CWA	21	10	0.8 to 2.0
400 (A17)	CWA	33	15	0.8 to 1.9
1000 (A22)	CWA	56	26	0.8 to 1.6
Metal halide (mo	og/clear)			
400 (A17)	CWA	25	11	0.8 to 1.8
1000 (A22)	CWA	45	21	1.0 to 1.9

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

THA22 Overallheight: 23-1/2 to 25 (59.7 to 63.5). Varies with distribution. Reflector height: 12-1/4 (31.1) Diameter: 23-1/4 (59.1)



THA17 Overall height: 21-1/2 to 23-1/2 (54.6 to 59.7). Varies with distribution. Reflector height: 12-1/8 (30.8) Diameter: 17-7/8 (45.4)





www.lithonia.com, keywords: TH-A17 or TH-A22

For high-mounting heights that require high efficiencies, horizontal illumination, premium glare control and total enclosure. Ideal for heavy manufacturing areas, gymnasiums and wet location applications.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cool operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – One-piece, totally enclosed-and-gasketed spun aluminum, anodized reflector combines high efficiency with extended shielding angle for high-performance optical control. Exclusive fluting design minimizes are tube voltage rise. Gasketed, clear, tempered-glass lens inhibits the entrance of ambient contaminants. Hinge and lens retainer latches for tool-less access.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. 5KV pulse rated for 1000S. Protected version with pink exclusionary socket.

Installation – Pendant splice box (PSB) is threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). 875W and 1000W pulse-start - 30° C to 40° C.

TE E17 TE E22

Hi-Tek®



Example: TE 400M E17 M TB SCWA

Options/Accessories
See pages 386-397. HID lamps are availabel with luminaires. Consult factory.

Ordering Information

Series	Wattage	Optics	Dis	tribut	ion (se	lect o	ne)
TE		High p	ressure	sodiur	n		
	705	E17	N	C	М	S	W
	1005	E17	N	C	M	S	W
	1505	E17	_	C	M	S	W
	2005	E17	N	C	M	S	W
	2505	E17	N	C	M	S	W
	4005	E17	_	_	M	S	W
	4005	E22	N	C	_	_	_
	1000S	E22	N	C	_	_	_
		N	letal hal	ide			
	175M	E17	-	C	М	S	W
	200M	E17	-	C	M	S	W
	250M	E17	-	C	M	S	W
	320M	E17	-	-	M	S	W
	350M	E17	-	-	M	S	W
	400M	E17	_	_	M	S	W
	350M	E22	N	C	-	-	-
	400M	E22	N	C	-	-	-
	450M	E22	N	C	_	_	_
	750M	E22	N	C	-	-	_
	875M	E22	N	C	-	-	-
	1000M	E22	-	C	M	S	_

NOTES:

 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.

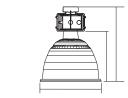
ConcentratedMediumSpreadWidespread

- Requires MRB or CWI option in Canada for high pressure sodium. Available for 70-400W only.
- 3 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- $\label{eq:continuity} 4 \quad \text{Optional multi-tap ballast} (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).$
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W and 1000W metal halide or high pressure sodium (CWA only).

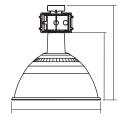
Voltage		Ball	ast		
120 208 ^{1,2} 240 ^{1,2,3} 277 347 480 ^{1,2} TB ⁴ TBV ⁵	(blank) CWI	de and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast		Pulse star LLRPSL SCWA LLSCWA RLB SCWI	t H.I.D. Ballast/Lamp System t metal halide Linear reactor pulse start Super constant wattag autotransformer Low loss SCWA Regulated lag ballast Isolated SCWA 84-385 fordetails.

					Lamp/fi	xture da	ta					
	Standard	Wei	ght				Spac	ing/mou	ınting h	eight		
Watt	age ballast	lbs.	kgs.	E17N	E17C	E17M	E17S	E17W	E22N	E22C	E22M	E22S
High p	oressure sodiun	n (mo	g/clea	ar)								
70	HX-HPF	21	10	-	1.0	1.3	1.5	1.9	-	-	-	-
100	HX-HPF	21	10	-	1.0	1.4	1.5	1.9	-	-	-	-
150	HX-HPF	21	10	-	1.0	1.3	1.6	1.8	-	-	-	-
200	CWA	22	10	8.0	1.1	1.3	1.5	1.9	-	-	-	-
250	CWA	26	12	8.0	1.1	1.3	1.5	1.9	-	-	-	-
400	CWA	41	19	-	-	_	-	-	0.8	1.1	-	-
400	CWA	39	18	-	-	1.2	1.5	1.9	-	-	-	-
1000	CWA	65	29	-	-	_	-	-	0.8	1.0	-	-
Metal	halide (mog/c	lear)										
175	CWA	22	10	-	1.0	1.4	1.6	2.0	-	-	-	-
250	CWA	24	11	-	1.0	1.3	1.6	1.9	-	-	-	-
400	CWA	31	14	_	-	-	_	-	0.8	1.0	_	-
400	CWA	31	14	_	-	1.4	1.6	1.9	-	-	_	-
1000	CWA	50	23	-	-	-	-	-	-	1.0	1.3	1.6

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



TEE22 Overall height: 24-3/8 (61.9) Reflector height: 17-3/8 (44.1) Diameter: 23 (58.4)



www.lithonia.com, keywords: TE-E17 or TE-E22

Overall height: 24-3/8 (61.9)

Diameter: 17-7/8 (45.4)

Reflector height: 17-3/8 (44.1)



LITHONIA INDOOR HID

TH A16 TH A16GL

Hi-Tek®



Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Open A16 opticals are self cleaning with a ventilated design that carries contaminants out top of reflector. Lensed A16GL optical

features a gasketed clear tempered glass lens with hinge and stainless steel latches for easy tool-less access.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C). A16GL meets UL lamp rupture containment specifications.

Ordering Information

naenng in	iomation	
Series	Wattage	Optical
TH	High pressure	sodium
THD ¹	70S	A16
	1005	A16
	1505	A16
	2005	A16
	250\$	A16
	250\$	A16GL
	4005	A16
	4005	A16GL
	Metal halide pr	
	175MP	A16
	200MP	A16
	250MP	A16
	320MP	A16
	350MP	A16
	400MP	A16
	450MP	A16
	Metal hali	
	175M	A16GL
	200M	A16GL
	250M	A16GL
	320M	A16GL

350M

400M

400M

450M

Voltage	Ballast
120 208 ^{3,4} 240 ^{3,4,5} 277	Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast
347 480 ^{3,4} TB ⁶ TBV ⁷	Pulse Start H.I.D. Ballast/Lamp Systems Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer
	RLB Regulated lag ballast SCWI Isolated SCWA See pages 384-385 for details.
-	C



Unitized Distributor Pack

NOTES:

A16GL

A16

A16GL

A16GL

- 1 THD consists of TH housing and A16 reflector shipped in one carton. Available with tapped ballast or 480V only. Available only in 400S, 320 MP, 400MP and 400M.
- $2\quad \mathsf{See}\,\mathsf{page}\,\mathsf{385}\,\mathsf{for}\,\mathsf{details}\,\mathsf{on}\,\mathsf{protected}\,\mathsf{sockets}.$
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- 4 Requires CWlor MRB option in Canada for high pressures odium. Available for 70-400W only.
- 5 220V and 240V,50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- $\label{eq:continuity} 6 \quad \text{Optional multi-tap ballast} (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).$
- 7 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W metal halide or high pressure sodium (CWA only).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

www.lithonia.com, keywords: TH-A16 or TH-A16GL

Example: TH 400MP A16 277 HOCS

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

	Lamp/fixt	ture data	3	
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure s	odium (mog/clea	<u>r)</u>		
70	HX-HPF	12	5	0.9 to 1.8
100	HX-HPF	13	5	0.9 to 1.8
150	HX-HPF	14	6	0.9 to 1.8
200	CWA	14	6	1.1 to 1.9
250	CWA	17	8	1.1 to 1.9
400	CWA	25	11	1.1 to 2.0
Metal halide (r	nog/clear)			
175	CWA	16	7	1.2 to 2.1
250	CWA	20	9	1.2 to 2.1
400	CWA	21	10	1.2 to 1.9



TH A16

Overallheight: 17-1/4to 20 (43.8 to 50.8). Varies with distribution. Reflector height: 9-1/2 (24.1)

Diameter: 16(40.6)



TH A16GL

Overallheight: 17-1/4to 20 (43.8 to 50.8). Varies with distribution.
Reflector height: 10-1/2 (26.7)
Diameter: 17-1/4 (43.8)





For high mounting heights that require high efficiencies and horizontal illumination. Ideal for storage areas and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Open A16 optical is self-cleaning with a ventilated design that carries contaminants out top

of reflector. Lensed A16GL optical features a gasketed clear tempered glass lens with hinge and stainless steel latches for easy tool-less access.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for ¾" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C). A16GL meets UL lamp rupture containment specifications.

SH A16 SH A16 GL

Hi-Tek®



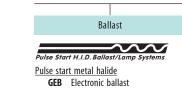
Example: SH 400M A16 208 GEB SC3P

Ordering Information



Wattage		Optical 0
Meta	l halide prote	ected ¹
320MP		A16
350MP		A16
400MP		A16
	Metal halide	
320M		A16GL
350M		A16GL
400M		A16GL
400M		A16

Voltage
208 240 277 TVOLT ²



See pages 384-385 for details.

0n	tions	/Acces	sories

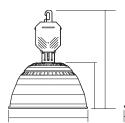
See pages 386-397. HID lamps are available with luminaires. Consult factory.

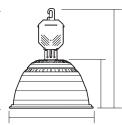
	Lamp/fix	ture data		
	Standard	Wei	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
Metal halide (m	iog/clear)			
400	GEB	12	5.5	1.2 to 1.9

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted

SHA16
Overall height: 21 to 24-1/4(53.3 to 61.6).
Varies with distribution.
Reflector height: 9-1/2 (24.1)
Diameter: 16 (40.6)

SHA16GL
Overall height: 21 to
24-1/4(53.3 to 61.6).
Varies with distribution.
Reflector height: 10-1/2 (26.7)
Diameter: 17-1/4(43.8)





- $1\quad {\sf Seepage\,385\,for\,details\,on\,protected\,sockets}.$
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz (available with GEB option only). Pendant splice box (PSB) mounting required.

LITHONIA INDOOR HID

366

TH A15

Hi-Tek®



Intended Use

For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Self-cleaning ventilated design that carries contaminants out top of reflector.

Socket - Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - Pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C).

Ordering Information

Series TH THD1

Wattage
High pressure sodium
705
1005
1505
2005
2505
4005
Metal halide protected ²
175MP
200MP
250MP
320MP
350MP
400MP
450MP
Metal halide
400M

Optical A15

277 347 **480**3,4 TB⁶ TBV7

Voltage 120 2083,4 **240**3,4,5

Metal halide and high pressure sodium (blank) Standard magnetic ballast Constant wattage isolated MRB Magnetic regulator ballast

Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer **LLSCWA** Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA

See pages 384-385 for details.

Ballast

 $\sim\sim$

Example: TH 400MP A15 TB

Options/Accessories

See pages 384-385. HID lamps are available with luminaires.

light**guick°X**U Express delivery products.

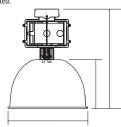
See page11 for details about LightQuick XD.

Description

TH 400M A15 TB

	Lamp/fixt	ure data		
	Standard	We	ight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure so	odium (mog/clear)		
250	CWA	17	8	1.5
400	CWA	25	11	1.5
Metal halide (m	nog/clear)			
400	CWA	21	10	1.7

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical\,mecha$ configuration. Dimensions are shown in inches (centimeters) unless otherwise



TH A15 Overall height: 250/400S:19-1/2(49.5) 400M:21-1/4(54.0) Reflectorheight: 9 (22.9) Diameter: 14-3/4(37.5)



Unitized Distributor Pack

- 1 THD consists of TH housing and A15 reflector shipped in one carton. Available with tapped ballast or 480V only. Available only in 400S, 320 MP, 400MP and
- See page 385 for details on protected sockets.
- $Requires \,CWI \, or \, RLB \, option \, in \, Canada \, for \, metal \, halide. \, Available \, for \, 175-450W$ only.
- $Requires\,CWI\,or\,MRB\,option\,in\,Canada\,for\,high\,pressure\,sodium.\,\,Available\,for$ 70-400W only.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada.)
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W and 1000W metal halide (CWA only).



For high mounting heights that require high efficiencies and horizontal illumination. Ideal for general manufacturing areas, storage areas and warehouse aisles. Steel Ballast Housing (SH) should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested and UL Listed. Ballast will operate pulse start lamps only from 200-277V.

Optics – High-efficiency, anodized, spun aluminum reflector with exclusive fluted design that minimizes arc-tube voltage rise for optimal lamp life. Self-cleaning ventilated design carries contaminants out top of reflector.

Socket – Glazed porcelain, vertically-oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

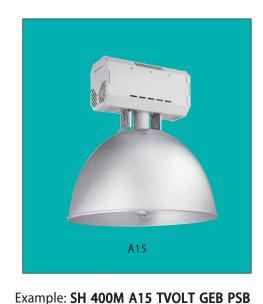
Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 34" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40° (High Ambient HA option for 55°C).

SHA15

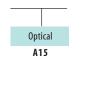
Hi-Tek®

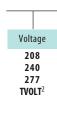


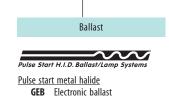
Ordering Information

Series SH









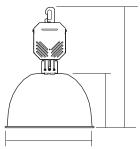
See pages 384-385 for details.

Options/Accessories
Seepages 386-397. HIDlamps are available with

e data		
Wei	ght kgs.	S/mtg. height
12	5.5	1.7
	Wei lbs.	

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$

SH A15 Overall height: 250/4005:19-1/2(49.5) 400M:21-1/4(54.0) Reflector height: 9 (22.9) Diameter: 14-3/4(37.5)

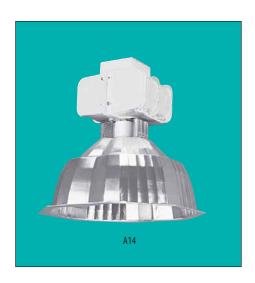


- See page 385 for details on protected sockets.
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant splice box (PSB) mounting required.



TH A14

Hi-Tek®



Intended Use

For high-mounting heights that require high efficiencies, horizontal illumination and vertical illumination. Ideal for manufacturing and warehouse aisles.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components are horizontally opposed and heat-sinked to ballast housing for cooler opera-

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and vertical illumination.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation - Pendant splice box is threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 55°C (High Ambient HA option for 65°C.)

Ordering Information

Series TH

Wattage
High pressure sodium
1505
200S
250\$
4005
Metal halide protected ¹
175MP
200MP
250MP
320MP
350MP
400MP
450MP
Metal halide
400M

Optical A14

Voltage 120 **208**^{2,3} **240**^{2,3,4} 277 347 480^{2,3} TB⁵ TBV⁶

Ballast Metal halide and high pressure sodium (blank) Standard magnetic ballast CWI Constant wattage isolated Magnetic regulator ballast MRB Pulse start metal halide LLRPSL Linear reactor pulse start

Super constant wattage autotrans-

former **LLSCWA** Low loss SCWA RLB Regulated lag ballast SCWI Isolated SCWA

See page 384-385 for details.

SCWA

Example: TH 320MP A14 TB SCWA KW1S

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ $configuration. \ Dimensions \ are shown in \ \textbf{inches} \ \textbf{(centimeters)} \ unless \ otherwise$

Overall height: 17-3/4 to 19-1/2 (45.1 to 49.5). Varies with distribution Reflector height: 8-1/2 (21.6) Diameter: 17-3/4(45.1)



- See page 385 for details on protected sockets.
- $2\quad Requires\,CWI\,or\,RLB\,option\,in\,Canada\,for\,metal\,halide.\,Available\,for\,175-450W$ only
- 3 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- 6 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W. 400W metal halide and high pressure sodium (CWA only).

		Lamp/fixtur	e data		
		Standard	We	ight	S/mtg.
	Wattage	ballast	lbs.	kgs.	height
<u>H</u>	ligh pressure so	odium (mog/clear)			
	150	HX-HPF	16	7	2.7
	200	HX-HPF	16	7	2.5
	250	CWA	19	9	2.5
	400	CWA	27	12	2.5
Λ	<u>Metal halide (m</u>	<u>nog/clear)</u>			
	400	CWA	23	10	2.4



For high-mounting heights that require high efficiencies, horizontal illumination and high vertical illumination. Ideal for manufacturing and warehouse aisles. Steel ballast housings should be used in areas with minimal airborne contaminants.

Features

Housing – Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast – Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics – One-piece hydroformed, anodized aluminum reflector provides rectangular distribution for maximum luminaire spacing and high illumination.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated. Protected version with pink exclusionary socket.

Installation – One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 34" conduit also available with other mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (High Ambient HA option for 55°C).

SHA14

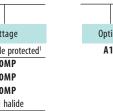
Hi-Tek®

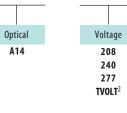


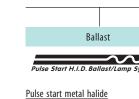
Ordering Information











Pulse start metal halide
GEB Electrionic ballast
Seepages 384-385 for details.

Example:	SH	400M	A14	277	GEB

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

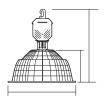
	Lamp/fixtur	e data	
	Standard	Weight	S/mtg.
Wattage	ballast	lbs. kgs.	height
Metal halide (r	nog/clear <u>)</u>		
400	GEB	12 5.5	2.4

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} ({\it centimeters}) unless otherwise noted.$

NOTES:

- $1\quad \mathsf{See}\,\mathsf{page}\,\mathsf{385}\,\mathsf{for}\,\mathsf{details}\,\mathsf{on}\,\mathsf{protected}\,\mathsf{sockets}.$
- 2 Tri-volt electronic ballast capable of operating on any line voltage between 200V and 277V at 50 or 60 Hz. Pendant slice box (PSB) mounting required.

SH A14
Overallheight: 17-3/4to 19-1/2(45.1 to 49.5).
Varies with distribution.
Reflector height: 8-1/2(21.6)
Diameter: 17-3/4(45.1)





LITHONIA INDOOR HID

370

TX A20 TX A26

Hi-Tek®



Intended Use

For areas that require good vertical illumination with excellent glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – Injection-molded virgin acrylic lens, fully fluted anodized aluminum reflector. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit

the entrance of ambient contaminants. All distribution patterns are widespread.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse-rated.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed -30°C to 40°C ambient operation and damp locations (High Ambient HA option for 55°C). UL wet location available. Meets UL lamp rupture containment specifications

Ordering Information

Series
TX

	I
Wattage	Optical ¹
High pressure	sodium, 20" diameter
50\$	A20
70S	A20
1005	A20
1505	A20
2005	A20
250\$	A20
High pressure	sodium, 26" diameter
2505	A26
4005	A26
Metal hal	ide, 20" diamter
100M	A20
150M	A20
175M	A20
200M	A20
250M	A20
Metal hali	de, 26" diameter
250M	A26
320M	A26
350M	A26
400M	A26
450M	A26

Voltage
120
208^{2,3}
240^{2,3,4}
277
347
480³
TB⁵
TBV⁶

)	Metal hal	ide and high pressure sodium
2,3	(blank)	Standard magnetic ballast
2,3,4	CWI	Constant wattage isolated
,	MRB	Magnetic regulator ballast
1		~~~
3	Pulse Sta	art H.I.D. Ballast/Lamp Systems
	Pulse star	rt metal halide
16	LLRPSL	Linear reactor pulse start
	SCWA	Super constant wattage
		autotransformer
	LLSCWA	Low loss SCWA
	RLB	Regulated lag ballast
	SCWI	Isolated SCWA
	See pages 3	84-385 for details.

Ballast

Example: TX 400M A26 277 SCWA HOCS

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

	Lamp/fixture	data		
	Standard	We	eight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure s	odium (mog/clear)			
50 (TXL A20)	HX-HPF	11	5	1.9
70 (TXL A20)	HX-HPF	12	5	1.8
100 (TXL A20)	HX-HPF	14	6	1.9
150 (TXL A20)	HX-HPF	15	7	1.9
200 (TXL A20)	CWA	17	8	1.9
250 (TXL A20)	CWA	21	9	1.7
250 (TXL A26)	CWA	29	13	2.0
400 (TXL A26)	CWA	37	17	2.0
Metal halide (n	ned (100) mog/clear)			
100 (TXL A20)	CWA	16	7	1.8
175 (TXL A20)	CWA	17	8	1.8
250 (TXL A20)	CWA	20	9	1.7
250 (TXL A26)	CWA	25	11	2.2
400 (TXL A26)	CWA	32	15	2.2

NOTES:

- $1\quad \text{Replace $\pmb{\mathsf{A}}$ in optical nomenclature with $\pmb{\mathsf{P}}$ for polycarbonate lens.}$
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- 3 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 4 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- $\label{eq:continuity} 5 \quad \text{Optional multi-tap ballast} (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).$
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W metal halide and high pressure sodium (CWA only).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TX A20 Overall height: 21-3/8 (54.3) Reflector height: 14-1/2 (36.2) Diameter: 20-3/4 (52.7)



TX A26 Overall height: 24-3/8 (61.9) Reflector height: 17-1/16 (43.3) Diameter: 27-1/2 (69.9)





www.lithonia.com, keywords: TX-A20 and TX-A26

For areas that require high efficiencies, high horizontal and vertical illumination and good glare control at low mounting heights. Ideal for general open areas, retail spaces, aisles and manufacturing areas. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic **Environmental Compatibility Chart on page** 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast - 100% factory tested. High power factor ballast with a minmum of class H insulation.

Optics - Injection-molded virgin acrylic lens, fully fluted, anodized aluminum reflector; exclusive spun-fluted anodized reflector. Hinge and lens retainer latches facilitate tool-less removal for

maintenance and cleaning. Totally enclosed, gasketed refractor and reflector inhibit the entrance of ambient contaminants. All distribution patterns are widespread.

Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickelplated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse-rated.

Installation - Pendant splice box threaded for 3/4" conduit (standard). Other mounting options available.

Listings

UL Listed. CSA Certified. NOM Certified. UL Listed -30°C to 40°C ambient operation and damp locations (High Ambient HA option for 55°C). UL wet location available. Meets UL lamp rupture containment specifications.

TX A30

Hi-Tek®



Example: TX 400M A30 TB SCWA

Ordering Information

Series
TX

Wattage	Optio
High pressure sodium	A30
250\$	
4005	
Metal halide	
175M	
200M	
250M	
320M	
350M	
400M	
450M	

:	Optical		Voltage
odium de	A30 ¹	ı	120 208 ^{2,3} 240 ^{2,3} , 277 347
			480 ³ TB ⁵ TBV ⁶
			104

ltage		Ballast
20 08 ^{2,3} 40 ^{2,3,4} 77	Metal hal (blank) CWI MRB	ide and high pressure sodium Standard magnetic ballast Constant wattage isolated Magnetic regulator ballast
47 80³ B ⁵		art H.I.D. Ballast/Lamp Systems
BV ⁶	LLRPSL SCWA	Linear reactor pulse start Super constant wattage autotransformer
	LLSCWA RLB SCWI See pages 3	Low loss SCWA Regulated lag ballast Isolated SCWA 84-385 fordetails.

Ballast		Options/Ac	cessories
halide and high pressure so k) Standard magnetic bal VII Constant wattage isola RB Magnetic regulator bal	last ted	See pages 386-397. Fable with luminaires	
\sim	~ 4		1 /C.

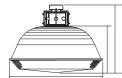
Lamp/fixture data				
	Standard	Weight S/mt		S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure so	High pressure sodium (mog/clear)			
250	CWA	26	12	2.0
400	CWA	31	14	2.0
Metal halide (mog/clear)				
250	CWA	26	12	2.1
400	CWA	28	13	2.1

NOTES:

- 1 Replace A in optical nomenclature with P for polycarbonte lens.
- 2 Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only.
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400W metal halide and high pressure sodium (CWA only).

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not represent\,actual\,mechanical$ configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

TX A30 Overall height: 22-1/4(56.5) Reflectorheight: 15-1/4(38.7) Diameter: 30-3/4(78.1)





TX A23

Hi-Tek®



Intended Use

For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing - Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heatsinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retainer latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants.

Socket - Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Pendant splice box threaded for 34" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. Meets UL lamp rupture containment specifications. UL Listed for damp locations. Ambient operation:-30° to 40°C (High Ambient HA option for 55°C). UL wet location available.

Ordering Information

Series Wattage TX High pressure sodium 2505 TXD **400S** Metal halide 175M 200M 250M 320M 350M 400M

Optical A23²

Voltage 120 **208**^{3,4} 2403,4,5 277 347 **480**3,4 TR6 TBV7

Ballast Metal halide and high pressure sodium

(blank) Standard magnetic ballast CWI Constant wattage isolated MRB Magnetic regulator ballast

Pulse start metal halide

LLRPSL Linear reactor pulse start **SCWA** Super constant wattage

autotransformer **LLSCWA** Low loss SCWA

RLB Regulated lag ballast SCWI Isolated SCWA

See pages 384-385 for details.

Lamp/fixture data				
	Standard	We	eight	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure sodium (mog/clear)				
250	CWA	23	10	1.6
400	CWA	29	13	1.6
Metal halide (mog/clear)				
250	CWA	21	10	1.7
400	CWA	25	11	1.7

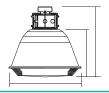
Example: TX 400M A23 TB SCWA

Options/Accessories

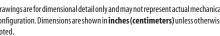
See pages 386-397. HID lamps are available with luminaires. Consult factory

450M

Overall height: 22-1/4(56.5) Reflector height: 15-1/4(38.7) Diameter: 23 (58.4)



Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise





- 1 TXD consists of TX housing and A23 optical assembly shipped in one carton. $A vailable\,with\,tapped\,ballast\,or\,480 V\,only.\,A vailable\,only\,in\,250 M, 320 M\,and$
- Replace A in optical nomenclature with P for polycarbonte lens.
- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W
- Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-400W only
- 220V and 240V, 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W. 400W metal halide and high pressure sodium (CWA only)



For areas that require vertical illumination and glare control at low mounting heights. Ideal for general open areas, retail spaces and aisles. Steel ballast housing should be used in areas with minimal airborne contaminants. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatability Chart on page 735 for suitable uses.

Features

Housing - Steel housing with white polyester powder coat finish. All electrical components are positioned to assure unit will hang straight. Housing is ventilated for optimal thermal performance.

Ballast - Electronic ballast is 100% factory tested. Ballast will operate pulse start lamps only from 200-277V.

Optics - Injection-molded, virgin acrylic lens and highly reflective, white polyester powder painted reflector. UV stabilized. Hinge and lens retain-

er latches facilitate tool-less removal for maintenance and cleaning. Inhibits entrance of outside contaminants.

Socket - Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - One-piece galvanized hook and spring steel latch with cord and plug (SC3P) is standard. Pendant splice box (PSB) with top entry for 3/4" conduit also available with mounting options.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. Meets UL lamp rupture containment specifications. UL Listed for damp locations. Ambient operations: -30°C to 40°C (High Ambient HA option for 55°C).

SX A23

Hi-Tek®

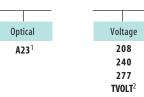


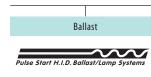
Ordering Information

Series









Pulse start metal halide GEB Electrionic ballast See pages 384-385 for details.

Example: S	X 400M	A23	TVOLT	GEB	PSB

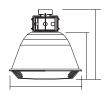
Options/Accessories
See pages386-397.HIDlampsareavailablewith
luminaires. Consult factory.

	Lamp/fix	ture data		
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
Metal halide (m	og/clear)			
400	GEB	12	5.5	1.7

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted

- Replace A in optical nomenclature with P for polycarbon te lens. HID lamps areavailable with luminaires. Consult factory.
- $2\quad Tri-volte lectronic ball ast capable of operating on any line voltage between 200V$ and 277Vat50 or 60 Hz (available with GEB option only). Pendant splice box (PSB) mounting required.

Overall height: 23-1/2 (59.7) Reflector height: 15-1/4(38.7) Diameter: 23 (58.4)





LITHONIA INDOOR HID

374

TXF A30F TXF PA25ALEF

Acrylume® and Hi-Tek®



Intended Use

For general area illumination of food processing and hose-down areas requiring high efficiencies, horizontal illumination, premium glare control, ease of cleanability, compliance to FDA/USDA requirements and/or NSF splash-zone certification. For more NSF information, see page 733. **Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.**

Features

Housing – Fully gasketed, heavy-duty, die-cast copper free (<0.4%) aluminum ballast housing. Finish meets FDA CFR 21 175.300 for resinous and polymeric coatings. Electrostatically applied white polyester powder paint. Electical components heat-sinked and horizontally opposed. External hardware is stainless steel or corrosion-resistant with no exposed threads.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – PA25ALEF: Enclosed and gasketed, injection-molded, UV stabilized, virgin acrylic reflector and flat lens. A30F: anodized aluminum and UV-stabilized virgin acrylic lens. Gasketed reflector and lens inhibit entrance of contaminants.

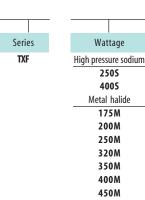
Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for -30°C to 55° C ambient operation and wet locations. NSF International certified splash-zone and meets FDA/USDA guidlines. Meets UL lamp rupture containment specifications. A30F is IP65 rated against ingress of water and contaminants and is suitable for high-pressure hose-downs up to 1200 psi.

Ordering Information



Optical	
PA25ALEF A30F	

Voltage
120
208 ^{1,2}
240 ^{1,2,4}
277
347
480 ²
TB ³
TBV ⁵

Metal hal	ide and high pressure sodium
(blank)	Standard magnetic ballast
CWI	Constant wattage isolated
MRB	Magnetic regulator ballast
	$\!$
Pulse Sta	rrt H.I.D. Ballast/Lamp Systems
Pulse sta	rt metal halide
LLRPSL	Linear reactor pulse start
SCWA	Super constant wattage
	autotransformer
LLSCWA	Low loss SCWA
RLB	Regulated lag ballast
SCWI	Isolated SCWA

See pages 384-385 for details.

Ballast

Example: TXF 400M A30F TB LLSCWA

Options/Accessories

See pges 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data				
	Standard	Weight	S/mtg.	
Wattage	ballast	lbs. kgs.	height	
High pressure sodium (mo	g/clear)			
250 (TXF PA25ALEF)	CWA	39 18	1.1	
250 (TXF A30F)	CWA	26 12	2.0	
400 (TXF PA25ALEF)	CWA	39 18	1.1	
400 (TXF A30F)	CWA	31 14	2.0	
Metal Halide (mog/clear)				
250 (TXF PA25ALEF)	CWA	35 16	1.2	
250 (TXF A30F)	CWA	26 12	2.1	
400 (TXF PA25ALEF)	CWA	35 16	1.2	
400 (TXF A30F)	CWA	28 13	2.1	

 $Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in {\it inches} (centimeters) unless otherwise noted.$

TXFA30F
Overall height: 22-1/4(56.5)
Reflector height: 15-1/4(38.7)
Diameter: 30-3/4(78.1)

TXF PA25ALEF Overall height: 26-3/8 (66.9) Reflector height: 15-3/8 (38) Diameter: 25-3/4 (65.4)



- Requires CWI or RLB option in Canada for metal halide. Available for 175-450W only.
- 2 Requires CWI or MRB option in Canada for high pressure sodium. available for 70-400W only.
- ${\small 3}\quad Optional \, multi-tap \, ballast \, (120 V, 208 V, 240 V, 277 V; 120 V, 277 V, 347 V in Canada).$
- 4 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 5 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W, 400 W, 1000W metal halide and high pressure sodium (CWA only).



For areas that require high vertical illumination and wide spacings. Ideal for aisles, service areas and parking garages. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy-duty, die-cast aluminum with white polyester powder finish. Electrical components horizontally opposed and heat-sinked to ballast housing for cooler operation.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics – 12" diameter (A125, A121): Anodized aluminum reflector with one-piece injection-molded acrylic or polycarbonate refractor and bottom enclosure. 16" diameter (A165, A162): High efficiency, optical-quality, white polyester powder finish with one-piece injection-molded acrylic or polycarbon-

ate refractor and bottom enclosure. Consult factory. Type I and II: Asymetrical long and narrow distribution. Type V: Symetrical circular distribution. OB optics are open bottom.

Socket – Glazed porcelain, vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Pendant splice box threaded for ¾" conduit (standard). Other mounting options available.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified. UL Listed for damp locations and -30°C to 40°C ambient operation (High Ambient HA option for 55°C). UL wet location available, closed bottom only. Meets UL lamp rupture containment specifications (except OB open bottom optics).

TX A121/A125 TX A162/A165

Hi-Tek®



Example: TX 150S A125 277 HC3P

Ordering Information

Series
TX

Wattage	Optical ³ (s	Optical ³ (select one)		
High pressure sodium, 12" diameter				
	Type V	Type I		
70S	A12	A121		
1005	A125	A121		
1505	A125	A121		
$200S^{2}$	A1250B	A1210B		
250S ²	A1250B	A1210B		
Meta	l halide, 12" diam	eter		
	Type V	<u>Type I</u>		
100M	A125	A121		
High pres	sure sodium, 16" d	liameter		
	<u>Type V</u>	Type II		
2005	A165	A162		
2505	A165	A162		
400S ²	A1650B	A1620B		
Metal halide protected, 16" diameter ¹				
	<u>Type V</u>	Type II		
320MP ²	A1650B	A1620B		
350MP ²	A1650B	A1620B		
400MP ²	A1650B	A1620B		
450MP ²	A1650B	A1620B		
Metal halide, 16" diameter				
	Type V	Type II		
100M	A165	A162		
150M	A165	A162		
175M	A165	A162		
200M	A165	A162		
250M	A165	A162		
400M ²	A1650B	A1620B		

Voltage
120
208^{4,5}
240^{4,5,6}
277
347
480^{4,5}
TB⁷
TBV⁸

Metal halide and high pressure sodium
(blank) Standard magnetic ballast

CWI Constant wattage isolated

MRB Magnetic regulator ballast

Pulse Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

LLRPSL Linear reactor pulse start

SCWA Super constant wattage
autotransformer

LLSCWA Low loss SCWA

RLB Regulated lag ballast
SCWI Isolated SCWA
Seepages384-385 fordetails.

NOTES:

- 1 See page 385 for details on protected sockets.
- 2 Open bottom only
- 3 Change Ain nomenclature to P. Example: P125. All except open-bottom fixtures meet UL lamp rupture containment specifications.
- 4 Requires CWI option in Canada for metal halide. Available for 175-400W only. Not available for 250W in 480V.
- $\label{eq:continuous} 5 \quad \text{Requires CWI or MRB option in Canada for high pressure sodium. Available for} \\ 70-400 Wonly.$
- 6 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 7 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada). 8 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W,
- 8 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V). Available for 250W 400W, 1000W metal halide and high pressure sodium (CWA only).

Options/Accessories

See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data				
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
High pressure so	odium (mog/clear)	, 12", Typ	oe V	
70	HX-HPF	15	7	1.8
100	HX-HPF	17	8	1.8
150	HX-HPF	17	8	1.8
200	CWA	20	9	2.7
250	CWA	23	10	2.6
High pressure sodium (mog/clear), 16", Type V				
200	CWA	22	10	1.9
250	CWA	25	11	2.6
400	CWA	36	16	1.8
Metal halide (med/clear), 12", Type V				
100	CWA	15	7	1.8
Metal halide (med (100) mog/clear), 16", Type V				
100	CWA	20	10	1.3
175	CWA	21	10	1.3
250	CWA	23	10	1.3
400	CWA	30	14	1.8

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

TX A125/A121 Overall height: 17 (43.2) Reflector height: 10 (25.4) Diameter: 12-1/4(31.1) TX A165/A162 Overallheight: 19-5/8 (49.8) Reflector height: 13-5/8 (34.6) Diameter: 16-3/4 (42.6)





www.lithonia.com, keywords: <u>TX-A121</u>, <u>TX-A125</u>, <u>TX-A162</u> and <u>TX-A165</u>

TGL TGR



Intended Use

For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles. Certain airborne contaminants can diminish integrity of acrylic. Refer to Acrylic Environmental Compatibility Chart on page 735 for suitable uses.

Features

Housing – Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation.

Induction lighting: High Frequency Generator/Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

Optics – One-piece, injection-molded, 100% virgin acrylic refractor. TGL Type V (A165), Type II

(A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

Socket – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. Mediumbase (100M only): UL Listed 660W, 600V, 4KV pulse rated.

Discharge Vessel/Lamp – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.

Ordering Information

Series	Wattage	0	ptical ²
High pressure sodium		Type V	Type II
TGL	705	A165	A162
	100S	A165	A162
	15 0 S	A165	A162
TGR	70S	A125	A121
	100S	A125	A121
	15 0 S	A125	A121
Metal halide			
TGL	100M	A165	A162
	175M	A165	A162
	200M	A165	A162
	250M ¹	A165	A162
TGR	100M	A125	A121
	175M	A125	A121
Induction			
TGL	85IL	A165	A162
	55IL	A165	A162

Voltage Ballast 120 Metal halide and high pressure sodium (blank) Standard magnetic ballast 2083,4 **240**^{4,5} 277 Pulse start metal halide 347 LLRPSL Linear reactor pulse start 480⁴ **SCWA** Super constant wattage TB^6 autotransformer See pages 384-385 for details.

NOTES:

- 1 Not available with SCWA.
- Polycarbonate lens: Replace A in optical nomenclature with P for polycarbonte lens.
- 3 Requires CWI option in Canada. Only available in 250M.
- 4 Requires CWI or MRB option in Canada for high pressure sodium. Available for 70-150W.
- 5 220V and 240V, 50Hz and 60Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

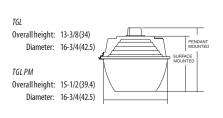
Example: TGL 175M A165 TB PM

Consult factory

Options/Accessories
See pages 386-397. HID lamps are available with luminaires.

	Lamp/fi	xture data	ì	
	Standard	Wei	ght	S/mtg.
Wattage	ballast	lbs.	kgs.	height
	TGL	Type V		
High pressur	e sodium (mog/	<u>clear)</u>		
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
Metal halide	e [med(100)/mo	g(175-25	0)/clea	<u>nr]</u>
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
TGR Type V				
High pressur	e sodium (mog/	clear <u>)</u>		
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
Metal halide [med(100)/mog(175)/clear]				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

 $Drawings\ are\ for\ dimensional\ detail\ only\ and\ may\ not\ represent\ actual\ mechanical\ configuration.\ Dimensions\ are\ shown\ in\ inches\ (centimeters)\ unless\ otherwise\ noted.$



TGR Overall height: Diameter:	11-1/4(28.6) 12-1/2(31.8)	PENDANT MOUNTED
TGR PM Overall height: Diameter:	13-3/8(34) 12-1/2(31.8)	SURFACE MOUNTED

Ambient Parameters	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TGR			
TGL 100-175M			
TGL 250M			
TGL 70-150S			
TGL 55-85IL			
	•		= COMPATABILITY

For areas that require low mounting heights. Used in applications including parking garages, stairwells, entrances or aisles.

Features

Housing - Rugged, heavy-duty aluminum housing. Standard finish is dark bronze polyester powder finish.

Ballast - 100% factory tested. High power factor ballast with a minimum of class H insulation.

Optics - One-piece, spun-aluminum, anodized reflector provides widespread distribution. High-impact, shock-resistant, tempered glass lens is fully gasketed to seal out contaminants.

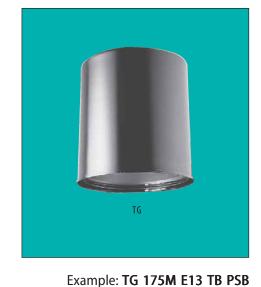
Socket - Glazed porcelain, vertically oriented socket with copper alloy, nickel-plated screw shell and center contact. Medium-base: UL Listed

660W, 600V, 4KV pulse rated; mogul-base: UL Listed 1500W, 600V, 4KV pulse rated.

Installation - Quick-mount attachment plate mounts to 4" square or octagonal J-box. Plate is hinged to fixture housing during installation. Fixture is then twist-locked into place and secured in a tamperproof installation. Internal trigger mechanism releases fixture from J-box. Factory-installed pendant mount option (PSB) available.

Listings

UL Listed. CSA Certified. NOM Certified. UL Listed for damp locations.



Options/Accessories See pages 386-397. HID lamps are available with

luminaires. Consult factory.

Ordering Information

Series TG High pr wide 175M 200M 250M

Wattage	Optical	Voltage
ressure sodium, e distribution 70S 100S 150S 200S	E13	208 ¹ 240 ^{1,2} 277 347 480 ¹ TB ³
etal halide 100M ¹		

	Ballast
Metal hal	ide and high pressure sodium
(blank)	Standard magnetic ballast
CWI	Constant wattage isolated
	2001
Pulse .	Start H.I.D. Ballast/Lamp Systems

Pulse start metal halide

LLRPSL Linear reactor pulse start

SCWA Super constant wattage autotransformer

LLSCWA Low loss SCWA

See pages 384-385 for details.

Ambient Parameters	-30° to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
TG 175M			
TG 250M			
TG 70-150S			
TG 200S			

Overall height: 13-5/8 (34.6)

= COMPATABILITY

TG (PSR) Overall height: 15 (38.1)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Diameter: 13-1/2 (34.3)	Diameter: 13-1/2 (34.3)

	Lamp/fixture data				
	Standard Weight S/mtg.				
Wattage	ballast	lbs.	kgs.	height	
High press	ure sodium (mog/c	lear <u>)</u>			
70	HX-HPF	13	6	1.8	
100	HX-HPF	15	7	2.2	
150	HX-HPF	16	7	2.5	
200	CWA	19	9	1.7	
Metal halide (med/mog(175–250)/clear)					
100	CWA	15	7	2.2	
175	CWA	17	8	2.2	
250	CWA	19	9	2.2	

NOTES:

- 1 Not available in Canada.
- 220V and 240V 50 Hz and 60 Hz ballasts available for use with U.S. metal halide and high pressure sodium lamps
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).

A LITHONIA LIGHTING

Parabolic Louvers



shielding. Ideal for open office, retail and commercial areas.

Features

Intended Use

Use in recessed hard ceiling and T-bar applica-

tions that require optimum horizontal illumination with superior brightness control and lamp

Optics - Specular clear parabolic 16-cell or 9cell, 4" deep aluminum louvers float in the middle of a black reveal with tempered glass overlay. Louver door attached with T-hinges and spring loaded latches for positive retention. Coated lamps provide optimum performance.

Housing - 20-gauge steel housing with high reflectance, white polyester paint.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Socket - Mogul-based porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation - 2' nominal aperture. Power door contains all electrical components. Pre-wired 7', 16-guage leads and 90° connector, no flex. Power door swings down for easy access or can be removed for servicing. Overlapping flange kit (GF-KIT) available for non-T-Bar applications.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

Example: GPV 400M 9AGL 120

Ordering Information

	Series	Wattage ¹
GPV	Vertical lamp	Metal halide
		175M 200M ² 250M 320M ² 350M ² 400M

NOTES:

- 1 Mogul-base lamps required. Coated lamps recommended
- 2 Available only when ordered with pulse start ballast.
- Multi-tap ballast. US: 120V, 208V, 240V, 277V; Canada: 120V, 277V, 347V.

Specular louver	Voltage
1 <u>6 cells</u> 1 6AGL Specular clear with glass overlay 9 cells	120 208 240
9AGL Specular clear with glass overlay	277
STANDARD PACKAGING	347 TB ³
To order, use single master catalog number. Example: (21) GPV 175M 9AGL 120	
Housings and door assemblies ship separately in unit cartons	s.
Example above ships as:	



(blank) Standard magnetic ballast CWI Constant wattage isolated

Pulse start metal halide

LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer **LLSCWA** Low loss SCWA

SCWI Isolated SCWA See pages 384-385 for details.

Options/Accessories

See page 379. HID lamps are available with luminaires. Consult

Round Reflector



Ordering Information

Series Wattage¹ Vertical lamp, flat Metal halide pan, round reflector 175M 200M² 250M NOTES: 320M2 Mogul-base lamps required. Coated 350M² lamps recommended. 400M 2 Available only when ordered with pulse start ballast. 3 Multi-tap ballast. US: 120V, 208V, 240V,277V;Canada:120V,277V,347V.

Intended Use

GPV175MGL120 HSG (21 cartons of 1 housing)

GP 9A U (21 cartons of 1 door assembly)

(Qty21)

(Qty21)

Use in recessed hard ceiling and T-bar applications that require downlight illumination with brightness control. Ideal for recreation facilities, retail and other commercial areas.

Features

Housing – Square steel pan finished in polyester matte white powder paint.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Optics - One-piece, semi-specular, spun aluminum reflector. Exclusive design with extended shielding provides wide distribution with mini-

mal brightness. White painted steel door assembly with clear tempered glass lens, retention hinge and latch. Coated lamps provide optimum performance.

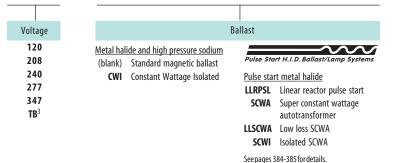
Socket - Glazed porcelain, vertically oriented, mogul-base socket with copper alloy nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – Electrical components factory assembled to the pan and ready to lay in a 2'x2' grid ceiling. Pre-wired 7', 16-gauge leads and 90° connector, no flex.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

Example: GS 175M 120



Options/accessories See page 379. HID lamps

are available with luminaires Consult factory



Use in hard ceiling and T-bar applications with low mounting heights that require optimum horizontal illumination with brightness control. Ideal for office, retail and commercial areas. Prismatic tempered glass lens with polycarbonate underlay suitable for gymnasiums and racquetball courts.

Features

Optics – Anodized aluminum top reflector. Door assemblies available with choice of prismatic tempered glass, prismatic acrylic and tempered prismatic glass with polycarbonate underlay. Door attaches to housing with T-hinges and two opposing cam latches for positive retention. G3V series rough service door assembly secured by additional four screws.

Housing – 20-gauge steel housing with high reflectance, white polyester paint.

Ballast – 100% factory tested. High power factor ballast with a minimum of class H insulation. Thermally activated insulation detector included.

Socket – Mogul-based porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

Installation – 2x2 lay-in housing design with power door containing all electrical components. Pre-wired 7', 16-guage leads and 90° connector, no flex. G2V power door swings down for easy access or can be removed for servicing. G3V uses four Philips flathead retaining screws for positive retention. Overlapping flange kit available (GFKIT) for non-T-Bar applications.

Listings

UL Listed. CSA Certified. UL Listed for recessed mounting and damp locations.

G2V G3V

Prismatic Lenses

Options/Accessories

See below. HID lamps are available with luminaires. Consultfactory.



Example: **G2V 400M FS T73 120**

Ordering Information

Series	Wattage ¹
G2V	Metal halide
G3V	175M 200M ² 250M 320M ² 350M ² 400M

Mogul-base lamps required. Coated lamps recommended.
 Available only when ordered with pulse start ballast.
 Available with G2V luminaires only.
 Available with G3V luminaires only.

RW FW FS	negressea mine araniman		
	Door frames		
	G2V	G3V	
RW	Option	Option	
FW	Option	Standard	
FS	Standard	N/A	

Door frame

	Shielding	Voltage
T73	Tempered prismatic glass lens	120 208
84YGL	Holophane#8224Y acrylic lens with tempered glass overlay	240 277 347 TB ⁵
A12GL	Prismatic acrylic lens with tempered glass	10

73/PCL	Tempered prismati glass lens with polycarbonate
	underlay ⁴

	Ballast
Metal hal	ide and high pressure sodiu
(blank)	Standard magnetic ballast
CWI	Constant wattage isolated
Pulso Sta	et H I D Ballast/Lamp Syston

Pulse Start H.I.D. Ballast/Lamp Systems
Pulse start metal halide

LLRPSL Linear reactor pulse start
SCWA Super constant wattage
autotransformer
LLSCWA Low loss SCWA

SCWI Isolated SCWA
Seepages384-385fordetails.

5 Multi-tap ballast. US: 120V, 208V, 240V, 277V; Canada: 120V, 277V, 347V.

G Series Options

Series	Description	Ships		G2V	G3V	GPV	GS
	·	Attached	Separately				
TRW	White flange trim, baked-on satin enamel finish	Х		STD	STD		
QFC	Quick-Flex®	Х		Х	Х	Х	Х
SF	Single fuse,120/277/347V only, N/A multi-tap ballast	Х		Х	Х	Х	Х
DF	Double fuse, 280/240/480V only, N/A multi-tap ballast	Х		Х	Х	Х	Х
QRS	Quartz restrike system (D.C. base)	Х		Х	Х	Х	Х
QRSTD	Quartz restrike system with time delay	Χ		Х	Χ	X	Χ
EC	Emergency circuit (D.C. base)	Χ		Х	Χ	X	Х
TA	Top access	Х		Х	Χ	X	
PWS1436	Prewire with 14-gauge THHN leads, 6' flex	X		Х	X	X	Х
SCWA	Super CWA pulse start ballast	Χ		Х	Χ	X	Х
LLRPSL	Linear reactor pulse start ballast	Χ		Х	Χ	X	Х
KW1	KiloWatch® 120V control relay, 50% wattage reduction	Χ		Х	Χ	X	Х
KW4	KiloWatch® 277V control relay, 50% wattage reduction	Χ		Х	Χ	X	Х
KW150	KiloWatch® 120V control relay, 50% light (lumen) reduction	Χ		Х	Χ	X	Х
KW450	KiloWatch® 277V control relay, 50% light (lumen) reduction	Χ		Х	Χ		Х
TCPF	Plaster frame		Х	1	1		
HTC	Earthquake clips		Х	2	2	2	2
WG12	Wireguard (for grid ceiling)		Х	2	2	2	2
GPFKIT	Flange kit		Х			Х	
GFKIT	Flange kit		Х	Х	Х		

NOTES:

Available flange trim units G2V and G3V only.
Available T-bar ceiling units only.

DSA FSSA

Intended Use

Ideal for illuminating the interior of tractor trailers during initial inspection, loading or unloading.

Features

Construction - Arms and struts constructed of heavy-duty 1-1/2" cross-section, 14-gauge square steel tubing. Reinforcement mounting brackets provide maximum support of arm and head for



long service without sagging or bending. Hinged ends reinforced internally with aluminum inserts. Corrosion-resistant hardware. Nuts are locking and exposed threads are plastic capped. Arm and strut ends feature injection-molded end caps.

Finish – Safety-yellow polyester powder paint is standard on arm, strut and metal lamp head. Polycarbonate lamp heads colored safety yellow.

Electrical System: 120V only. Provided with threeprong plug and 8' cord. Lamp head includes on/off switch and porcelain medium-base socket with copper alloy screw shell and center contact. Electrical cord lengths secured via grommets. high pressure sodium models feature reactor type bal-

Optical System - Lamp head for 150W incandes-



cent is polycarbonate and metal for 300W incandescent. Both include metal wireguard standard. Polycarbonate 50W high pressure sodium lamp head with reflective coating, integral ballast and flush polycarbonate guard. Optional SED acrylic lens suitable for use in food service dock areas.

Installation – Arm and strut-mounting bracket included. Arm assembly attaches to wall mounting bracket with single bolt. Lamp head attaches with a single bolt to arm and is powered by a NEMA plug and receptacle assembly in arm. Heavy-duty wall bracket (HDWB) recommended for fan/light combinations.

Listings

Listings - UL Listed to U.S. and Canadian safety standards.



Ordering Information

	Series		Ler	ngth
DSA	Double-strut arm		24	24"
			40	40"
			60	60"
			90	90"
			114	114"
FSSA	Folding single-strut arm	n	40	40"
			60	60"

- 1 Required for FSSA. Optional for DSA. Not available with DSA24, DSA114.
- 2 Vacuum metalized polycarbonate lamp head. 90" maximum length.
- 3 Available for 50S high pressure sodium only.
- 4 Heavy-duty wall bracket (HDWB) recommended. For fan and DSA arm without lamp head, leave "Lamp" field blank.
- 5 Standard in 50S models. Not available for incandescent.

 $Drawings\,are\,for\,dimensional\,detail\,only\,and\,may\,not\,represent\,actual\,mechanical$ configuration. Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Knuckle ADJ Adjustable knuckle joint¹



wise noted.	50'	W high pressure sodium
DSA Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Arm length: 26 to 95-1/4 (66.0to 23.5)	DSA ADJ Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Arm length: 40 to 96-1/4 (101.6to 244.5)	FSSA ADJ Lamp head height: 7-7/8 to 8-3/4 (20.0to 22.2) Armlength: 47-3/4to 96-1/4(121.3 to 244.5)



	Lamp
1501	150W incandescent polycarbonate lamp head with wireguard
3001	300W incandescent metal lamp head with wireguard
50\$	50W high pressure sodium polycarbonate lamp head with polycarbonate quard ²

Options						
SED	Special environment diffuser (acrylic lens) ³					
FAN LPI	3-speed fan ⁴ Lamp included ⁵					



Acc

cessories	(Order separately)
DLMAG KIT	Portable magnetic mounting kit for lamp heads. Includes magnet, 6' cord adaptor and hardware.
FAN	3-speed fan. ⁴
HDWB	Heavy-duty wall bracket.
MLH	300W incandescent metal lamp head with wireguard.
PLHI	150W incandescent polycarbonate lamp head with wireguard.
PLHS	50W high pressure sodium polycarbonate lamp head with polycarbonate guard. ²
MLHWG6	Replacement wireguard for 300W incandescent metal lamp head.
PLHWG8	Replacement wireguard for 150W incandescent polycarbonate lamp head.
PLHPG	Replacement polycarbonate guard for 50W high- pressure sodium polycarbonate lamp head.
SED	Special environment diffuser (acrylic lens). 3



The KiloWatch® II Integral Sensor System provides individual luminaire dual-level lighting control for maximum energy savings and flexibility. Each luminaire contains an integral sensor that mounts directly to the reflector. Application opportunities include warehouses or select storage areas within manufacturing facilities.

Features

Integral passive infrared motion sensor mounts to the reflector and connects to the ballast housing with flexible metal conduit to control one luminaire based on occupancy. Sensor detects moving temperature differentials against background radiation. When motion is detected, luminaire is switched to high mode for 1.25 to 20 minutes (field adjustable) after motion no longer is detected. Sensor includes timing circuit for automatic high mode start up of lamp for 20 minutes. A self-timing, 100-hour high-mode burn function is field-activated for initial operation of a new lamp.

Sensor is designed for use in indoor applications with 15' to 45' mounting heights. Sensor provides 360° of coverage within the luminaire's lighting distribution. Standard operating temperature range from 14°F to 131°F (-10°C to 55°C). Low temperature option (LT) range from -40°F to 131°F (-40°C to 55°C).

KiloWatch II options listed below only are available with CWA/SCWA ballast configurations. The

1000MP

desired option must be designated in the luminaire catalog number Options field.

TH/TX Series

KW1S - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaire supplied with motion sensor control and sensor mounting

KW1S LT - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaire supplied with motion sensor control for low temperature and sensor mounting bracket.

SH/SX/SPG Series

ISM - Reduces wattage by 50%. (Light output reduces by 70-80%.) Luminaires supplied with motion sensor control and sensor mounting bracket. For GEB electronic ballast only.

Listings

UL Listed to U.S. and Canadian safety standards. Not for use with dual wattage rated lamps. Lamp manufacturer requires 100 hours high-mode burn-in of new lamps prior to low-mode operation and 15 to 20 minutes of high-mode operation thereafter upon start-up.

KiloWatch® II



Example: TH 400M PA22 120 KW1S

Ordering Information

				T -						
Series	Wattage	Wattage		Wattage Optical		ptical	Voltage		Ballast	
TE TH TX	High pressure sodium 1505 2505 4005 10005 Metal halide protected ¹	Metal halide 175 M 200 M 250 M 320 M 350 M 400 M	E17 E22 A15 A16 A17 A22 A14	A125 A165 PA16 PA22 PA22C PA22SP PA25ALE	120 208 240 277 347 480		CWA H.I.D. Ballas1/Lamp Systems rt metal halide Super constant wattage autotransformer			
	200MP 250MP 320MP 350MP 400MP 450MP	450M 1000M	A26 A30 A23 A20	PA25D PA22GLE PA22N	NOTES: 1 Seepag 2 50%po	e 385 for detai	See pages 384-385 for details. 385 for details on protected sockets. er.			

Series	Wattage	Optical	Voltage	Ballast	Options/A	ccessories
SH SX SPG	Metal halide protected ¹ 320MP 350MP 400MP Metal halide	A15 A16 A16GL A23 PA22	208 240 277 TVOLT	Pulse start metal halide GEB Electronic ballast	ISM ² SF DF EL QRSTD	OCS HA PSB SC3P WG
320M 350M		PA22N PA22SP PG15	NOTE	S:	See page for detail	s 386-397 ls.

- $See \,page\,385\,for\,details\,on\,protected\,sockets.$
 - 50% power

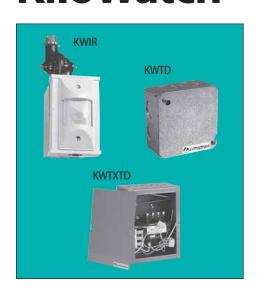
Options Accessories KW152 TOR I CPP HKMG SCK48 DCY KW1S LT² T73 LC3P DHX LC3P SCK108 SMB18 SF CR HC3P DS_Q LGG DF CRT HOCS **FWG** LPF SMB24 ORS TEF HOCU **GFWG** I PM **TMB30 QRSTD** TR LOCS HC3P LPMG **TMB48** EC **SCWA** LOCU HKF PPH WG GL RC3NP CF HKM TPH WGG SCK

SENSOR COVERAGE CHART 0 5 10 15 20 25 30 35 40 45 20 10 10

🖊 LITHONIA LIGHTING

www.lithonia.com, keyword: KW

KiloWatch®



Intended Use

KiloWatch® dual-level HID luminaire option provides capability to switch ballast between high mode and low mode operation. Choose from 100% to 50% power operation or 100% to 50% lumen output operation. Luminaires must be combined with motion sensors, photocells and/or control transformers for complete system. Ideal for energy reduction or light level control in warehouses, storage areas, parking garages, shipping docks and gymnasiums.

Features – Components

KWTD – Time delay control. Solid-state, digital timing circuit automatically provides high mode start-up of each lamp for 15 minutes, guaranteeing lamp stabilization. For 120V AC manually switched or 120V AC photocell (KWPC) applications.

KWTXTD - Time delay control voltage transform-

er. Provides 120V AC control circuit power for 208/240/277/347/480V AC applications controlled by photocells or manual switching*. Includes solid-state, digital timing circuit for automatic high mode start-up of each lamp for 15 minutes, guaranteeing lamp stabilization. One KWTXTD required for each on/off control zone of up to 30 fixtures.

KWTX – Control voltage transformer. Provides 120V AC control circuit power for 208/240/347/480V AC applications in conjunction with KWIR motion sensors. High mode start-up of each lamp for 20 minutes performed by KWIR sensors. One KWTX required for each on/off control zone of up to 30 fixtures.

KWIR – Passive infrared motion sensor. Switches 120V or 277V control relays in each lighting fixture based on occupancy. Sensor detects moving temperature differentials against background

Manual Controls

shipped separately



System for 120V AC (one component)

KWTD Time delay control, manually switched. Automatic timer keeps fixtures in high mode for 15 minutes after start-up. 1

Must add $\boldsymbol{KW1}$ or $\boldsymbol{KW150}$ to fixture description - 120V control.

NOTES:

1 Manual control switches and wall boxes by others.



System for 208/240/277/347/480V AC (one component)

KWTXTI

Control voltage transformer with time delay. Steps supply voltage down for 120V control. Automatic timer keeps fixture in high mode for 15 minutes after start-up.¹

Must add **KW1** or **KW150** to fixture description — 120V control

Motion Sensor Controls shipped separately



System for 120/277V AC (one component)

KWIR Motion sensor^{2,3}

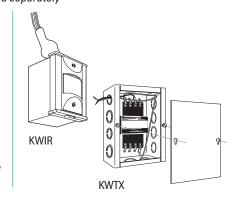
KWIR LT Motion sensor, low temperature (-30°)^{2,3}

KWIR WA Motion sensor, wide angle^{2,3}

Must add **KW1** or **KW150** to fixture description — 120V control. Must add **KW4** or **KW450** to fixture description — 277V control.

NOTES:

- $2 \quad \text{Consult factory when using with Reloc} \\ \text{$^{\circledast}$ wiring.}$
- ${\it 3} \quad {\it Sensors have automatic timer to keep fixture in high mode for 20 minutes after start-up.}$



System for 208/240/347/480V AC (two components)

KWIR Motion sensor^{2,3}

KWIR LT Motion sensor, low temperature^{2,3}

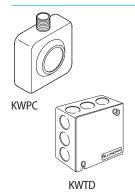
KWIR WA Motion sensor, wide

angle^{2,3}

NTX Control voltage transformer; steps

supply voltage down for 120V control

Must add **KW1** or **KW150** to fixture description — 120V control.



Photocell Controls shipped separately

System for 120 AC (two components)

KWPC Photocell

KWTD Time delay control; automatic timer keeps fixture in high mode for 15 minutes after start-up

Must add KW1 or KW150 to fixture description — 120V control.





System for 208/240/277/347/480V AC (two components)

Photocell

KWPC KWTXTD

Control voltage transformer with time delay steps supply voltage down for 120V control; automatic timer keeps fixture in high mode for 15 minutes after start-up

Must add **KW1** or **KW150** to fixture description – 120V control.





radiation. When motion is detected, lighting system is switched to high mode for one to 20 minutes (field adjustable) after motion no longer is detected. Sensor includes timing circuit for automatic high mode start-up for 20 minutes. Sensor is factory-preset at optimum performance angle (43°) and can be field-adjusted. Sensor is designed for use in indoor applications with 15' to 35' mounting heights where a long and narrow coverage pattern is desired (14°F to 160°F).

KWIR WA – Same as KWIR sensor with wide angle lens designed for use in indoor applications with 7' to 8' mounting heights where a short, wide coverage pattern is desired (14°F to 160°F).

KWIR LT- Passive Infrared Motion sensor. Same as KWIR sensor designed for low temperature operation (-40°F to 160°F).

KWPC -Photo-diode sensors. Sensors switch luminaires to low output based on predetermined ambient illumination levels (field adjustable).

Features – Luminaires

KiloWatch options listed below only are available with CWA/SCWA ballast configurations. The desired option must be designated in the fixture catalog number option field.

KW1 - Reduces wattage by 50% (light output reduces by 70-80%). Luminaire supplied with 120V AC control components for use with all manually switched*, KWPC photocell (120/208/240/277/ 347/480V) or KWIR sensor (120/208/240/347/ 480V) controlled systems.

KW150 - Reduces light output by 50% (power reduces by 30-40%). Luminaire supplied with 120V AC control components for use with all manually switched*, KWPC photocell (120/208/ 240/277/347/480V), or KWIR motion sensor (120/208/240/347/480V) controlled systems.

Volt

KW4 - Reduces wattage by 50% (light output reduces by 70-80%). Luminaire supplied with 277V AC control components. For use with KWIR motion sensor controlled systems.

KW450 - Reduces light output by 50% (power reduces by 30-40%). Luminaire supplied with 277V AC control components for use with KWIR motion sensor-controlled systems.

Consult factory when using Reloc® with Kilo-Watch®.

Lamp manufacturers require 100 hours high mode burn-in of new lamps prior to low mode operation and 15 to 20 minutes of high mode operation thereafter upon start-up.

Not for use with dual wattage rated lamps.

* Manual switches and wall boxes by others.

Example: TH 400M A16 277 SCWA KW4

Consult factory for field start-up service.

Ordering Information

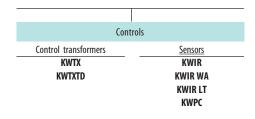
Series	Wattage	0р	tical
TE	High pressure sodium	E17	PA16
TH	1505	E22	PA22
TPG	250\$	A15	PA22C
TPGE	400S	A16	PA22SP
TX	1000\$	A17	PA25ALE
TGL	Metal halide protected ¹	A22	PA25D
TGR	175MP	A14	PA22GLE
	200MP	A15	PA22N
	250MP	A26	PG16
	320MP	A30	PG16A
	350MP	A23	PG16GLE
	400MP	A20	PG16AGL
	450MP	A30F	PG21
	1000MP ²	A125	PG21A
	Metal halide	A165	PG21GLE
	175M	A1250B	PG21AGL
	200M	A1650B	
	250M		
	320M		
	350M		
	400M		
	450M		
	1000M ²		

/oltage	Ballast
120 208	(blank) CWA
240	Pulse Start H.I.D. Ballast/Lamp Systems
277	Pulse start metal halide
347	SCWA Super constant
480	wattage autotransformer

Opt	ions	Acce
KW1 ³	T73	DCY
KW150 ⁴	CR	DHX
KW4 ⁵	CRT	DSQ
KW450 ⁶	TEF	FWG
SF	TR	GFWG
DF	LCKPP	НСЗКР
QRS	LC3KP	HKF
QRSTD	HC3KP	HKM
EC	$HOCU^7$	HKMG
GL	LOCU ⁷	LC3KP
TOB	CF	LGG
		LPF
NOTES:		

- 1 See page 385 for details on projected sockets.
- 2 Not available on 1000W metal halide.
- 3 120V control relay, 50% wattage.
- 4 120V control relay, 50% light output.
- 5 277V control relay for 277V sensor applications only, 50% wattage.
- 6 277V control relay for 277V sensor applications only, 50% light output
- Consult factory when using Reloc® with KiloWatch®.

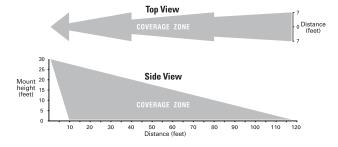
Ordering Information Example: KWIR



KWIR Motion Detector Coverage

The sensor coverage shown is underideal conditions Consult specification sheets for specific information.

The KWIR-WA mounted at 8' has coverage zone of 120° and distance at 40'.



www.lithonia.com, keyword: KW



384

Metal Halide and High Pressure Sodium Ballasts

The characteristics of high pressure sodium, metal halide and mercury vapor high intensity discharge lamps require a ballast for controlling voltage and current to operate the lamp at its proper wattage. Lamps that are not operated within the optimal performance range will not produce proper light output or experience full life. There are several ballast types to choose that will provide proper control, but offer differing lamp wattage regulation, voltage dip tolerance, watts loss and cost.

CWA - Constant Wattage Autotransformer Ballast

- Operates metal halide and high pressure sodium lamps
- 175W, 250W, 400W, 1000W metal halide and 100W, 200W, 250W, 400W, 1000W high pressure sodium lamps
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- Voltage dip tolerance; 30%
- Moderate watts loss
- · Two coils with mid-size core
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.7 to 1.8
- Metal halide ballasts rated to operate mercury lamps; 175W, 250W, 400W, 1000W only
- Ideal for manufacturing and assembly type areas, general industrial, recreational and retail

CWI - Constant Wattage Isolated Ballast

- Operates 250W, 400W, 1000W metal halide and 150W, 200W, 250W, 400W high pressure sodium lamps
- Isolated 2-coil system meets Canadian electrical code requirements for 208V and 240V applications in Canada
- Input line voltage 120V, 208V, 240V, 480V
- Voltage dip tolerance; 30%
- Moderate watts loss
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.7 to 1.8
- Adds increased safety during lamp replacement

MRB - Magnetic Regulator Ballast

- Operates 70-400W high pressure sodium lamps
- Isolated 3-coil system meets Canadian electrical code requirements for 208V and 240V applications
- Input line voltage 120V, 240V, 277V, 480V
- Voltage dip tolerance; 50%
- High watts loss
- Excellent regulation $\pm 10\%$ line voltage $/\pm 3\%$ lamp wattage
- · Crest factor 1.5
- Ideal for heavy industrial application or areas with voltage dips and spikes

HX – High Reactance

- Operates 70W, 100W, 150W metal halide and 50W, 70W, 100W, 150W high pressure sodium
- Input line voltage 120V, 277V, 347V
- Low watts loss
- Regulation ± 5% line voltage /±12% lamp wattage
- Crest factor 1.5
- HPF high power factor 90%+ (standard)
- NPF normal power factor 50%+ (available)
- Starting current higher than operating

Pulse Start Metal Halide Ballasts

Pulse start metal halide lamps provide higher lumens per watt and up to 15% better mean lumens than standard probe start lamps with an additional 15% gain in combination with electronic ballasts. These lamps have different operating characteristics that require different ballast designs with an igniter to generate a starting pulse of 2,000 to 3,000 volts. Pulse start lamps will start quicker and reach full brightness sooner during cold and hot starts.

SCWA – Super Constant Wattage Autotransformer SCWI – SCWA Isolated Ballast

- Operates 150W, 175W, 200W, 250W, 320W, 350W, 400W, 450W, 750W, 875W, 1000W pulse start metal halide lamps
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- SCWI isolated 2-coil system meets Canadian electrical code requirements 400W only 120V, 208V, 240V only
- Voltage dip tolerance; 45%
- · Moderate watts loss
- Regulation ± 10% line voltage /±10% lamp wattage
- Crest factor 1.6
- Ideal for manufacturing and assembly type areas, general industrial, recreational and retail

LLRPSL - Low Loss Reactor Pulse Start Ballast

- Operates 150W, 200W, 320W, 350W, 400W and 450W pulse start metal halide lamps
- Input line voltage 277V only
- Voltage dip tolerance; 25%
- Low watts loss energy saving ballast
- Single coil with smallest core design
- Regulation \pm 5% line voltage $/\pm$ 12% lamp wattage
- Crest factor 1.4 to 1.5
- Starting current higher than operating
- Energy saver in areas where line dip tolerance is not critical; well suited for retail, light manufacturing, assembly type areas, institutional and recreational

RLB – Regulated Lag Ballast

- Operates 175W, 250W, 400W, 450W pulse start metal halide lamps (450W for 277V only)
- Input line voltage 120V, 208V, 240V, 277V, 347V, 480V
- Voltage dip tolerance; 50%
- High watts loss
- Excellent regulation ±10% line voltage /±3-7% lamp wattage
- Crest factor 1.5
- Ideal for heavy industrial application or areas with voltage dips and spikes

GEB - Electronic Pulse Start Ballast

- Operates 320W, 350W, 400W pulse start metal halide lamps
- Auto-sensing input line voltage 200V to 277V 50/60Hz
- Voltage dip tolerance; 56%, automatically reduce lamp power 50% for dip below 180V
- Low watts loss energy-saving ballast
- 0-10VDC dimming control 50% to 100% lamp power
- Total harmonic distortion 15% maximum
- Excellent regulation ±10% line voltage /±0.5% lamp wattage
- Ideal for clean manufacturing and assembly type areas, institutional, recreational and retail



Quieter Operation

= Ontion available

Conventional core and coil ballasts have an inherent hum from magnetic elements generated by the ballast circuit. The level of noise created by the luminaire depends on the ballast design, load characteristics, component mounting in the housing, luminaire mounting and acoustical characteristics of the application area. Encapsulating the ballast reduces the noise level created by the ballast for areas where sound levels are critical.

The GEB electronic pulse start ballast also provides a solution to eliminate ballast noise. The electronic ballast uses electronic circuitry to operate the lamps and does not have a core and coil to create the hum of conventional ballasts. The electronic ballast operates the lamp at a frequency that is beyond the audible range for silent operation .

ENC – Encapsulated Ballast

- Provides quieter operation; not available in all fixtures
- Class A sound rating up through 175W
- Class B for 250W and 400W

CED	Electroni	: - Dl	C4	Dallast
GER -	FIRCTION	IC PIIISE	STAIT	KAHAST

- · Provides silent operation
- High frequency operation beyond audible range
- See GEB (page 384) for other operating characteristics

	iiuuiu			optio	ii u v u i	lubic											
							Ball	ast select	tion tal	ole							
Series	SH	SPG	SX	TE	TH	THD	TPG	TPGE	TX	TXD	TXF	TG	TGL	TGR	G	GPV	GS
CWA ¹																	
HX ¹																	
CWI																	
MRB																	
LLRPSL																	
SCWA						2				2							
RLB																	

NOTES:

GEB

- 1 CWA is standard for 175W and above, and HX is standard for 150W and below for metal halide and high pressure sodium.
- 2 Not available on 250W.

Standard

Protected Sockets

Mogul Lamp Socket and Metal Halide Mogul Lamp Base Differences

The 2005 National Electric Code NFPA Code 70 Article 410.73 (F)(5) mandates indoor metal halide luminaires with open rated optics to have a means that will permit the luminaire to operate only with an ANSI Type O lamp. This article requires a protected lamp and socket for installations of open rated metal halide luminaires. The differences between the lamp base and socket types are explained below.

ANSI Type E – Type E metal halide lamps are enclosed rated and only suitable for enclosed luminaires that have a glass lens or plastic lens rated for arc tube containment. These lamps have a standard mogul base design with a broad contact point as shown. Typical for 175-1500W metal halide lamps.

ANSI Type S — Type S metal halide lamps are rated suitable for use in enclosed luminaires or in open luminaires if certain lamp manufacturer operating conditions are followed. These lamps have a standard mogul base design with a broad contact point as shown. The Type S lamp rating is currently applied to metal halide lamps 350W or greater and will be available after January 1, 2005 for replacement of existing lamps.

ANSI Type O – Type O metal halide lamps are open rated protected lamps for use in open or enclosed luminaires. These lamps have "EX" style exclusionary bases designed specifically for operation with pink protected sockets. The mogul bases of these lamps have a narrow contact point designed for protected lamp sockets. Type O lamps most commonly have a cylindrical quartz barrier around the arc tube while some ceramic metal halide arc tubes are wrapped with wire. Typical for 175-1500W metal halide lamps.

Standard Mogul Base Sockets – Standard sockets are constructed of porcelain and are white in color. The center contact tab will accept ANSI Type E, S and O rated lamps. These sockets will continue to be used for metal halide HID lamps in indoor luminaires with enclosed optics.

Protected Mogul Base Sockets – Protected sockets are constructed of porcelain and are pink in color. The center contact tab is surrounded by a barrier that excludes ANSI Type E and S lamps by preventing contact between the center pin on the lamp base and center tab on the lamp socket. Type O rated lamps have a narrow center pin that fits in the barrier to make contact with the center tab. These sockets will be required for indoor HID metal halide luminaires with open optics to comply with 2005 NEC.



Type O – "EX" mogul base



Type E and S mogul base



Type O lamp in white standard mogul socket



Type E and S lamp in white standard mogul socket



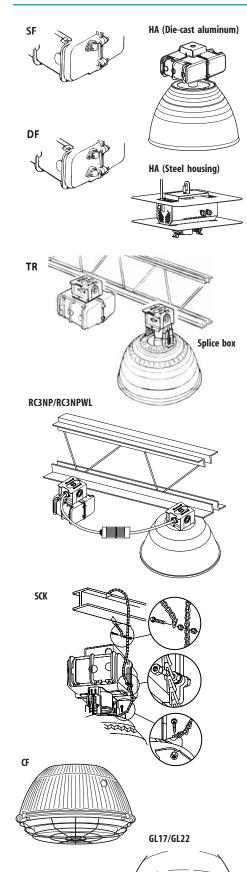
Type O lamp in pink protected mogul socket



Type E and S lamp in pink protected mogul socket



386



See Option & Accessories matrix on pages 394-395 for compatibility.

Ballast Housing Options & Accessories

- SF Single fuse. Use with 120V, 277V, 347V. Externally accessible in-line fusing isolates luminaire from circuit. Specify tap voltage if combined with multi-tap ballast (TB1=120V, TB4=277V, TB5=34V7) or five-tap ballast (TBV1=120V, TBV4=277V).
- **DF** Double fuse. Use with 208V, 240V, 480V. Externally accessible in-line fusing isolates luminaire from circuit. Specify tap voltage if combined with multi-tap ballast (TB2=208V, TB3=240V) or five-tap ballast (TBV2=208V, TBV3=240V, TBV6=480V).
- **HA** High ambient. Allows the industrial luminaires to be operated in higher ambient temperatures. TX low bay series is 55°C. TH, TE, TPG, TPGE high bay series is 65°C. Large die-cast aluminum ballast housing included for TH, TE, TX, TPG, TPGE. Steel housing SH, SX, SPG series is 55°C and includes external heat shield.
- **WL** Wet location label. Signifies that the luminaire meets all UL requirements for proper, safe operation in environments subject to spray of non-corrosive and nonflammable liquids. Fixture requires rigid pendant mounting or wet location HC3PC3RWT assembly.
- **TR** Remote ballast luminaire. Add TR to end of complete fixture catalog number. Includes ballast housing, optic and appropriate remote optical splice box. Does not include interconnecting wiring. Ballast, optic and splice box ship separately.
- **RC3NP** Remote ballast luminaire with pre-wired cord. Add RC3NP to end of complete fixture catalog number. Includes ballast housing, optic and appropriate remote optical mounting box and 3 feet of pre-wired cable harness with male and female 20A twist lock plug (C3NP) factory attached. Ballast, optic and splice box ship separately.
- **RC3NPWL** Remote ballast luminaire with pre-wired cord for wet location. Add RC3NPWL to end of complete fixture catalog number. Same as RC3NP except listed for wet location.
 - SCK Safety chain kit. Kit includes chain and attachment hardware for field installation. Add SCK (5'), SCK84 (7'), SCK120 (10') to fixture catalog number or order separately as SCK (5'), SCK84 (7'), SCK120 (10').

Optic Options & Accessories

- **CF** Charcoal filter. Used with enclosed and gasketed luminaires. Filter prevents particulate contaminants from entering the optical assembly during start-up and cool-down periods. Filter consists of activated charcoal granules freely suspended between multiple layers of polyester filtering material.
- **GL17/GL22** Glass lens for TH A17/A22. Frequent cleaning maintains performance. (Does not meet UL lamp rupture containment specifications.) RK1 MHINGE U kit must be specified when ordering lens separately for field modification.
 - **T73** Corning C73. Prismatic tempered glass lens
 - **UP** *Uplight.* Glass enclosure for TE E17/E22.

	SF	DF	НА	WL	TR	RC3NP	RC3NPWL	SCK	CF	GL17/GL22	T73	UP
Ships attached	•		•	•					•	•	•	•
Ships separately					•	•	•	•		•		



Quartz Lamp Options

EC *Emergency circuit.* Factory-installed, double-contact, 120V bayonet-base quartz socket with socket leads for use with separate external emergency power system. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

QRS Quartz restrike system. Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Automatically switches quartz lamp on if there is a power interruption or brownout significant enough to cause the primary HID lamp to drop out. The quartz lamp stays on until the HID fixture restrikes. QRS does not energize during cold start of HID luminaires. Wiring for the quartz lamp is internal to the ballast assembly; the ballast supplies voltage required to operate the quartz lamp. The fixture must be energized for quartz lamp to operate. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

QRSTD Quartz restrike system time delay. Factory-installed, double-contact, bayonet-base quartz socket with socket leads. Functions same as QRS, but quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come on when luminaire is energized and remain on for two minutes after startup or restrike. Wiring for the quartz lamp is internal to the ballast assembly; the ballast supplies voltage required to operate the quartz lamp. The fixture must be energized for quartz lamp to operate. Reference Quartz Lamp Wattage table for maximum wattage. 120V quartz lamp not included.

			M				Watta			ıs					
	TE/E17/E22	TH/A14/A15/A16/A17/A22	TH/A16GL	TH/PA16	TH/PA22/PA22N/PA22SP	TH/PA22L/PA22E	EC, QRS	TX/PA22GLE/PA22C/PA25D 0.1	TX/A20/A23/A26/A30 Option	TX/A162/A165	TGR/TGL	TPG/PG16/PG21/PG16A/PG21A	TPGE/PG16GLE/PG21GLE	TPGE/PG16AGLE/PG21AGLE	TX/A121/A125
Metal halide HID lamp wattage						Quart	z Lamp	Wattag	ge						
150	-	-	-	-	-	-	-	100	100	100	100	-	-	-	100
175	100	100	100	_	150	150	150	150	150	150	100	150	150	150	_
200	150	150	100	-	150	150	150	150	150	150	100	150	150	150	_
250	250	250	100	-	250	150	150	150	250	150	100	250	150	150	_
300	250	250	100	-	250	150	150	150	250	150	-	250	150	150	_
320	250	250	100	-	250	150	150	150	250	150	-	250	150	150	_
350	250	250	100	-	250	150	150	150	250	150	-	250	150	150	_
400	250	250	100	-	250	150	150	150	250	150	-	250	150	150	_
450	250	250	100	-	250	150	150	150	250	150	-	250	150	150	_
750	250	500	-	-	-	-	150	-	-	-	-	500	150	150	_
875	250	500	-	-	-	-	150	-	-	-	-	500	150	150	_
1000	250	500	-	-	-	-	150	-	-	-	-	500	150	150	-
High pressure sodium HID lamp wattage						Quart	z Lamp	Watta	ge						
50	-	-	-	-	-	-	-	-	100	-	-	-	-	-	100
70	100	100	-	-	-	-	-	-	100	100	100	-	-	-	100
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
150	150	150	150	150	150	150	150	150	150	150	100	150	100	100	150
200	150	150	150	150	150	150	150	150	150	150	100	150	100	100	150
250	250	250	150	250	250	150	150	150	250	150	100	250	250	250	150
400	250	250	150	-	250	150	150	150	250	150	-	250	250	250	-
1000	500	500	-	-	-	-	150	-	-	-	-	500	250	250	_

Rev. 3/19/07

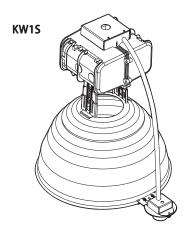
 $Add\,QxxxDC\,to\,fixture\,Catalog\,\#\,to\,include\,lamp\,(xxx\,denotes\,wattage).$

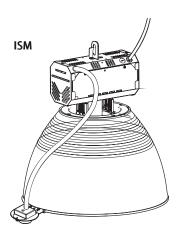
	EC*	QRS*	QRSTD*
Ships attached	•	•	•
Ships separately			

^{*} Cannot be field installed.

EC/QRS/QRSTD

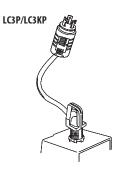






HC3P/HC3KP





HID Dimming Options

KW1 KiloWatch® 50% power reduction. 120V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW4 *KiloWatch*® *50% power reduction.* 277V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW150 KiloWatch® 50% lumen reduction. 120V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW450 KiloWatch® 50% lumen reduction. 277V AC control circuit for dual-level control system. Requires additional system components. See KiloWatch® data (pages 382-383) or consult factory.

KW15 *KiloWatch® II 50% power reduction.* Integral sensor unit for individually controlled dual-level system. See KiloWatch® II data (page 381) or consult factory.

KW1SLT KiloWatch® II 50% power reduction for low temperature. Integral low temperature sensor unit for individually controlled dual-level system. See KiloWatch® II data (page 381) or consult factory.

ISM Individually sensored motion detector. 50% power reduction for individually controlled GEB electronic dimming ballast. See page 381 or consult factory for details.

Cord Mounting Options and Accessories

HC3P Hook, 3' cord and NEMA twist-lock plug. For use where receptacle and support means are provided by others. Includes die-cast aluminum hook, 3' of 16-gauge, 105°C cord and NEMA configuration twist-lock plug. Add HC3P to fixture catalog number for factory installed or order separately as HC3P Lx-xxP (Lx-xxP denotes plug configuration. Specify from NEMA Plug Table below). Height 3-1/2".

HC3KP Hook, 3' cord and NEMA twist-lock plug for KiloWatch®. Identical in function to HC3P except with NEMA L23-20P plug configuration for KiloWatch®.

LC3P Loop, 3' cord and NEMA twist-lock plug. For use where receptacle and support means are provided by others. Includes die-cast aluminum loop, 3' of 16-gauge, 105°C cord and NEMA configuration twist-lock plug. Add LC3P to fixture catalog number for factory installed or order separately as LC3P Lx-xxP (Lx-xxP denotes plug configuration. Specify from NEMA Plug Table below). Height 3-1/2".

LC3KPLoop, 3' cord and NEMA twist-lock plug for KiloWatch®. Identical in function to LC3P except with NEMA L23-20P plug configuration for KiloWatch®.

	NEMA Plug Table											
	Ships	attached					Ships separately					
Fixture or	otion field	Fixture	voltage field		NEMA		Accessory item					
Hook, 3'	Loop, 3'			TBV	plug	Amp						
cord & plug	cord & plug	Voltage	TB ballast	ballast	configuration	rating	Catalog number					
HC3P	LC3P	120	TB1	TBV1	L5-15P	15	HC3PL5-15P					
HC3P	LC3P	208	TB2	TBV2	L6-15P	15	HC3PL6-15P					
HC3P	LC3P	240	TB3	TBV3	L6-15P	15	HC3PL6-15P					
HC3P	LC3P	277	TB4	TBV4	L7-15P	15	HC3PL7-15P					
HC3P	LC3P	347	TB5		L37-20P	20	HC3PL37-20P					
HC3P	LC3P	480		TBV6	L8-20P	20	HC3PL8-20P					
HC3P20	LC3P20	120	TB1	TBV1	L5-20P	20	HC3PL5-20P					
HC3P20	LC3P20	208	TB2	TBV2	L6-20P	20	HC3PL6-20P					
HC3P20	LC3P20	240	TB3	TBV3	L6-20P	20	HC3PL6-20P					
HC3P20	LC3P20	277	TB4	TBV4	L7-20P	20	HC3P L7-20P					

	KW1	KW4	KW150	KW450	KW1S	KW1SLT	ISM	НСЗР	НСЗКР	LC3P	LC3KP
Ships attached	•	•	•	•	•	•	•	•	•	•	•
Ships separately								•		•	



HC3PC3RWT

Cord Mounting Options and Accessories (continued)

HC3PC3RWTHook, 3' cord, NEMA twist-lock and receptacle for wet location. For use where support means are provided by others. Includes grommeted die-cast aluminum safety hook, 3' of 16-gauge, 105°C cord and NEMA twist-lock 20A plug and compatible NEMA receptacle.

Steel hook, 3' cord and NEMA twist-lock plug. Used on steel ballast housing only. For use where receptacle and support means are provided by others. Includes steel hook, 3' of 16-gauge, 105°C cord and NEMA configuration twist lock plug. 15A plug standard for 120V, 208V, 240V, 277V; 20A plug standard for 347V, 480V. Height 2-5/8".

SC3PD Steel hook, 3' cord with NEMA twist-lock plug and 3' low voltage cord. Same as SC3P with 3' of low voltage control cord for 0-10VDC dimming. Used on steel ballast housing with GEB electronic ballast only.

Reloc® Mounting Options

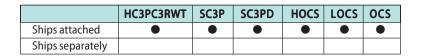
SC3P

HOCS Hook, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes die-cast aluminum hook, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

LOCS Loop, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes die-cast aluminum loop, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

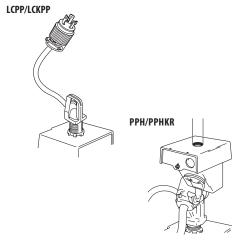
OCS Hook, cord and Reloc® OCS connector. For use where support means are provided by others. Requires Reloc® wiring system. Includes steel hook, 5' of 16-gauge, 105°C white cord and Lithonia Reloc® module. For SH/SX/SPG steel housing only. Allows the desired hot conductors needed to energize the fixture to be selected in the field. Allows fixture to be removed from line without interruption of branch circuit. Factory prewired. Height 3-1/2". In Canada, available in 120V or 347V only. To order, specify voltage. For additional information, see Reloc® OCS component on page 692.

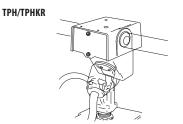
SCIP
SC3PD
1
HOCS
LOCS
NOTE:
0CS \$

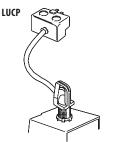


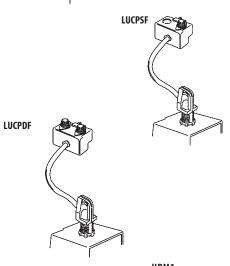


390











Power Hook Options & Accessories

LCPPLoop, cord and plug. Use with PPH and TPH only. Includes loop, 14" of 16-gauge, 105°C cord and twist-lock 14A non-NEMA plug configuration for power hooks. Receptacle is part of PPH or TPH accessory. Add LCPP to fixture catalog number for factory installed or order separately as LCPP.

LCKPPLoop, cord and plug for KiloWatch®. Use with PPHKR and TPHKR only. Includes loop,14" of 16-gauge, 105°C cord and twist-lock NEMA L23-20P plug for power hooks for KiloWatch®. Receptacle is part of TPHKR and PPHKR accessory. Factory installed.

PPH Pendant power hook. UL listed as primary disconnect, load break device. Threaded 3/4" top entry. Fixture requires LCPP option (loop, cord and plug). Add PPH to fixture catalog number or order separately as PPH xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 5-1/8"; width and depth 4-1/2".

PPHKR Pendant power hook for KiloWatch® system. UL listed as primary disconnect, load break device. Threaded 3/4" top entry. Fixture requires LCKPP option (loop, cord and plug for KiloWatch® system). Add PPHKR to fixture catalog or order separately as PPHKR xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 5-1/8"; width and depth 4-1/2".

TPH Through-wire power hook. UL listed as primary disconnect, load break device. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Fixture requires LCPP option (loop, cord and plug). Add TPH to fixture catalog number or order separately as TPH xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 6-1/4"; width and depth 4-1/2".

TPHKR Through-wire power hook for Kilo Watch *system. ULlisted as primary disconnect, load break device. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Fixture requires LCKPP option (loop, cord and plug for Kilo Watch *system). Add TPHKR to fixture catalog or order separately as TPHKR xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 6-1/4"; width and depth 4-1/2".

Universal Power Module Hook & Loop Mounting Options

LUCP Loop, universal cord and plug. **Requires UPM1 option (universal power module with hook adapter).** Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

LUCPSF Loop, universal cord, plug with single fusing. **Requires UPM1 (universal power module with hook adapter).** Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

LUCPDF Loop, universal cord, plug with double fusing. **Requires UPM1 (universal power module with hook adapter).** Provides die-cast aluminum loop, 3' of 16-gauge, 105°C cord and UCP plug. Factory prewired. Height is 3-1/2".

PM1 Universal power module with hook adapter. UL listed as primary disconnect, load break device. Concentric knockouts for side entry of 1-1/4" or 3/4" conduit. Threaded 3/4" top entry for pendant. **Fixture requires LUCP options (loop, universal cord and plug).** Allows surface, through-wire or pendant mounting. Add UPM1 to fixture catalog number or order separately as UPM1 xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 7", width and depth 4-1/2".

	LCPP	LCKP	PPH	PPHKR	TPH	TPHKR	LUCP	LUCPSF	LUCPDF	UPM1
Ships attached	•	•					•	•	•	
Ships separately	•		•	•	•	•				•



Universal Power Module Mounting Options

UCP Universal cord and plug. Requires UPM (universal power module) option. 16-gauge, 105°C cord and plug. Connect to UPM to provide complete power module assembly. Factory prewired module.

UCPSF Universal cord and plug with single fuse. Requires UPM (universal power module) option. 16-guage, 105° C cord and plug module with single fuse (120V, 277V). Connect to UPM to provide complete power module assembly. Fuse is factory-installed in UCPSF plug module. Factory prewired.

UCPDF Universal cord and plug with double fuse. **Requires UPM (universal power module) option.** 16-guage, 105°C cord and plug module double fuse (208V, 240V, 480V). Connect to UPM to provide complete pwer module assembly. Fuses are factory-installed in UCPDF plug module. Factory prewired.

UPM Universal power module. UL listed as primary disconnect, load break device. Concentric knockouts for side entry of 1-1/4" or 3/4" conduit. Threaded 3/4" top entry. Fixture requires UCP (universal cord and plug) options. Allows flat horizontal surface, throughwire or pendant mounting. Add UPM to fixture catalog number or order separately as UPM xxx. (xxx – denotes voltage. Specify 120, 208, 240, 277, 347, 480.) Height 3-1/2", width and depth 4-1/2".

Box Mounting Options & Accessories

TOB Through-wire outlet box. Combination outlet box and splice compartment. Permits side entry for 1-1/4" or 3/4" conduit or top entry for 3/4" conduit through concentric knockouts. May be suspension or surface mounted. Height 2-7/8"; width and depth 4-1/2".

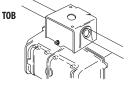
TOBP Through-wire outlet box plug-in. Provides plug-in flexibility of conventional power hook and reduces overall height. Permits side entry for 1-1/4" or 3/4" conduit through concentric knockouts. Female receptacle part of TOBP box ships separately. Male plug is factory installed to ballast housing. Not rated as a load break device. Height 2-7/8"; width and depth 4-1/2".

PBP Pendant box plug-in. Pendant-mount plug-in outlet box provides plug-in flexibility of conventional power hook. Female receptacle part of PBP box ships separately. Male plug is factory-installed to ballast housing. Not rated as a load break device. Threaded 3/4" entry permits top entry of pendant stem. Height 4-1/2"; width and depth 4-1/2".

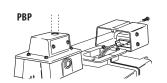
PSB Pendant splice box. Permits pendant mounting of TG and SH/SX/SPG steel housing series. TG box has 3/4" threaded top entry. SH/SX/SPG box has 3/4" top knockout.

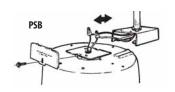
PM *Pendant splice box.* Permits pendant mounting of TGL and TGR series. Die-cast aluminum box has 3/4" threaded top entry.

UCP
UCPSF
UCPDF
UPM









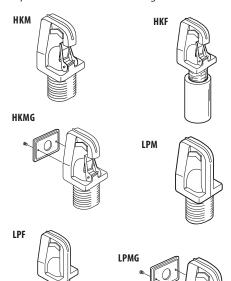


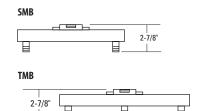
	UCP	UCPSF	UCPDF	UPM	ТОВ	TOBP	PBP	PSB	PM
Ships attached	•	•	•		•	•	•	•	•
Ships separately				•		•	•		

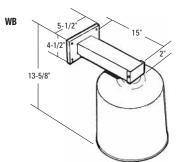


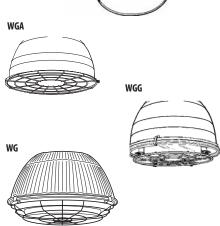
Options and Accessories

Drawings are for dimensional detail only and may not represent actual mechanical configuration.









Mounting Hooks

HKM Fixture hook male. Die-cast aluminum construction with spring steel safety clasp. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

HKF Fixture hook female. Die-cast aluminum construction with spring steel safety clasp with coupling added for female entry. Overall height is 5-1/4" including threaded coupling. Thread diameter is 3/4".

HKMG Fixture hook male grommeted. Die-cast aluminum construction with spring steel safety clasp. Gasketed cord exit design keeps dirt from entering hook/cord entry. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

LPM *Fixture loop male.* Die-cast aluminum construction with closed loop design. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

LPF Fixture loop female. Die-cast aluminum construction with closed loop design with coupling added for female entry. Overall height is 5-1/4" including threaded coupling. Thread diameter is 3/4".

LPMG Fixture loop male grommeted. Die-cast aluminum construction with closed loop design. Gasketed cord exit design keeps dirt from entering Loop/cord entry. Overall height is 3-3/4" including 1" of threaded nipple. Thread diameter is 3/4".

Mounting Bars

SMB Single mounting bar. White painted steel channel with 3/4" pipe couplings suspend remote ballast housing at one end with remote reflector assembly at the other. SMB includes end snap-in closure strips for wire access. Order as **SMB18** for 18" (overall length) or **SMB24** for 24" (overall length). Center line of pipe couplings are 3" from each end.

TMB Twin mounting bar. White painted steel channel with 3/4" pipe couplings suspends two complete fixtures, one at each end. Order as **TMB30** for 30" (overall length) or **TMB48** for 48" (overall length). Centerlines of pipe couplings are 3" from each end.

WB TG Series wall-mounting bracket. Extruded aluminum wall bracket for TG, TGL, TGR luminaires. Bracket mounts directly to flat, vertical surface with four bolts (not included). Fixture slides directly onto WB. All wiring connections are made inside wall mounting bracket. TG requires PSB option (pendant splice box on page 391). TGL and TGR fixture require PM option (pendant splice box on page 391).

Wireguards for Hi-Tek® Aluminum High Bays and Low Bays

WGA Wireguard for Hi-Tek® open aluminum high bay reflectors. Use with TH A15/A16/A17/A22 and SH A15/A16 open aluminum reflector high bays. Add WG to fixture catalog number or order separately as WGxxx. (xxx – denotes reflector. Specify A15, A16, A17, A22.)

WGG Wireguard for enclosed high bay reflectors. Use with TE E17/E22; TH A17 with GL17/A22 with GL22; TPGE PG16GLE/PG16AGLE/PG21GLE/PG21AGLE reflector high bays. Wireguard is factory installed to glass lens door. **Must be ordered with fixture.** Add WG to fixture catalog number.

WG Wireguard for Hi-Tek® aluminum low bays. Use with TX A20/A23/A26/A30 or SX A23. **Must be ordered with fixture.** Add WG to fixture catalog number. Wireguard is factory attached to lens door. Add WG to fixture catalog number.

	НКМ	HKF	HKMG	LPM	LPF	LPMG	SMB	TMB	WB	WGA	WGG	WG
Ships attached											•	•
Ships separately	•	•	•	•	•	•	•	•	•	•		



Louver Guard Accessories

LGALouver guard for open aluminum high bay reflectors. Use with TH A16/A17/A22 or SH A16 open aluminum high bays. **Must be ordered with fixture.** Reflector requires factory modification for louver mounting. Add LGAxx to fixture catalog number. (xx – denotes reflector. Specify 16, 17, 22.)

LGG Louver guard for enclosed aluminum high bay reflectors. Use with TE E17/E22 enclosed aluminum high bays. **Must be ordered with fixture.** Reflector requires factory modification for louver mounting. Louver mounts to reflector above lens door. Add LGGxx to fixture catalog number. (xx – denotes reflector size. Specify 17, 22.)

Wireguards DuraBay® Prismatic Glass High Bays

Wireguard for open prismatic glass high bay reflectors. Use with prismatic glass reflector high bay TPG PG16/PG21 and shrouded prismatic glass reflector high bay TPG PG16A/PG21A. Wireguard covers bottom opening of reflector. Field installed to bottom of reflector. Add WGxxxx to fixture catalog number or order separately as WGxxxx. (xxxxx – denotes reflector. Specify PG16, PG21, PG16A, PG21A.)

Wireguard for enclosed prismatic glass high bay reflectors. Use with enclosed prismatic glass reflector high bay TPGE PG16GLE/PG21GLE/PG16AGLE/PG21AGLE. Two-piece wireguard protects top reflector and bottom glass lens door. Top portion field installed to reflector neck casting. Bottom portion factory installed to glass lens door. Add GFWGxx to fixture catalog number or order separately as GFWGxx. (xx – denotes reflector size. Specify 16, 21.) Optic, top wireguard and lens door with wireguard ship separately.

Wireguard Acrylume® Prismatic Acrylic High Bays and Low Bays

FWG Full wireguard. Use with the TH high bay or TX low bay Acrylume® fixtures. Attaches to bottom of ballast housing. Ships separately as: FWG U (Unit).

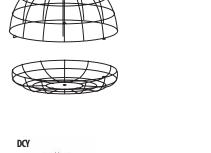
Decorative Shades

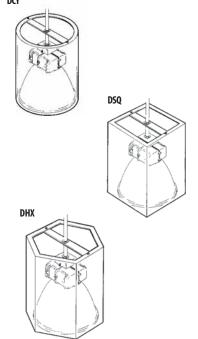
Fixture series and size	Cylinder DCY	Square DSQ	Hexagonal DHX	Dia.	Height
TH A16 and TH A17	DCY19 400 (color)	DSQ19 400 (color)	DHX19 400 (color)	19"	30"
TH A17 with WGA,	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22 ½"	30"
WGG or LGA					
TH A22	DCY24 400 (color)	DSQ24 400 (color)	DHX24 400 (color)	24"	30"
TH A22 with WGA,	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"
WGG or LGA					
TE17	DCY22 400 (color)	DSQ22 400 (color)	DHX22 400 (color)	22½"	30"
TE E22	DCY26 1000 (color)	DSQ26 1000 (color)	DHX26 1000 (color)	26"	30"

24-gauge steel construction with baked polyester enamel finish. Designed for pendant mounting on rigid conduit only. Not for use on swivel hangers or any self-leveling hanging device. Available in all architectural colors. Custom colors may involve substantial setup fees; consult factory. Mounting and fixture attachment hardware not included.

	LGA	LGG	WGPG	GFWG	FWG	DCY	DSQ	DHX
Ships attached								
Ships separately								•









		Ships attached	Ships separately
Ballast Housing	Options & Accessories		, , , , , , , , , , , , , , , , , , ,
SF	Single fuse; 120/277/347V only ¹	•	
DF	Double fuse; 208/240/480V only ¹	•	
HA	55°C ambient operation ²	•	
HA	65°C ambient operation ²	•	
WL	Wet location; UL Listed	•	
TR	Remote ballast luminaire		•
RC3NP	Remote ballast (TR) luminaire with pre-wired cord and plug ³		•
RC3NPWL	Remote ballast (TR) luminaire with pre-wired cord for wet location		•
SCK	Safety chain kit 60"		•
SCK84	Safety chain kit 84"		•
SCK120	Safety chain kit 120"		•
Optic Options			
CF	Charcoal filter ³	•	
GL	Glass lens (tempered) door enclosure	•	
T73	Corning C73 prismatic tempered glass lens door enclosure	•	
UP	Uplight glass enclosure ³	•	
Quartz Lamp Opt			
EC	Emergency circuit (lamp not included); see page 387 for maximum wattage	•	
QRS	Quartz restrike system (lamp not included); see page 387 for maximum wattage	•	
QRSTD	QRS time delay (lamp not included); see page 387 for maximum wattage	•	
HID Dimming Op			
KW1	KiloWatch® 120V control relay; 50% wattage reduction	•	
KW4	KiloWatch® 277V control relay; 50% wattage reduction	•	
KW150	KiloWatch® 120V control relay; 50% light (lumen) reduction	•	
KW450	KiloWatch® 277V control relay; 50% light (lumen) reduction	•	
KW1S	KiloWatch® II integral sensor unit; 50% wattage reduction ³	•	
KW1SLT	KiloWatch® II integral low temperature sensor unit; 50% wattage reduction ³	•	
ISM	Integral sensor unit; 50% wattage reduction (GEB electronic ballast only)	•	
Cord Mounting O			
НСЗР	Hook, 3' cord & 15A NEMA twist-lock plug (20A for 480V) ^{1,3}	•	•
НСЗКР	Hook, 3' cord & NEMA L23-20P KiloWatch® pluq ³	•	
LC3P	Loop, 3' cord & 15A NEMA twist-lock plug (20A for 480V) ^{1,3}	•	•
LC3KP	Loop, 3' cord & NEMA L23-20P KiloWatch® plug ³	•	
HGPGRWT	Wet location hook, cord and receptacle ¹	•	
SC3P	Steel hook, 3′ cord and 15A NEMA twist-lock plug	•	
SC3PD	Steel hook, 3' cord and 15A NEMA twist-lock plug and 3' low voltage control cord	•	
Reloc® Mounting	, ,		
HOCS	Hook, 5' white cord, Reloc® OCS ^{1,3,4}	•	
LOCS	Loop, 5' white cord, Reloc® OCS ^{1,3,4}	•	
OCS	Steel hook 5' white cord, Reloc® OCS	•	
Power Hook Opti	·		
LCPP	Loop, cord and plug; requires PPH or TPH ³	•	•
LCKPP	Loop, cord and KiloWatch® plug; requires PPHKR or TPHKR³	•	•
PPH	Pendant power hook outlet box; luminaire requires LCPP ³		•
PPHKR	Pendant power hook outlet box for KiloWatch®; luminaire requires LCKPP³		•
	· · · · · · · · · · · · · · · · · · ·		
TPH	Through-wire power hook outlet bos; luminare requires LCPP ³		

NOTES

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Not available all wattages and voltages. Consult factory.
- 3 Cannot be combined with (WL) wet location option.
- 4 Available 120V or 347V only in Canada.
- 5 Requires (PSB) pendant splice box option.
- 6 Requires (PM) pendant splice box option.

= Standard						Hi	gh ba	ys															Low	bays							
= Option available		SHA14	SH A15	SHA16	SH PA22	SPG PG15	TE E17/E22	THA14	THA15	TH A16/A16GL	TH A17/A22	TH PA22*/PA25	THDA15/A16	TPG	TPGE	SX A23	76	191	TGR	TX A125/A165	TX A20	TX A23	TX A26	TXD A23	TX A30	TXF A30F	TXF PA25ALEF	TX PA22C	TX PA22GLE	TX PA25ALE	TX PA25D
	SF																														
	DF																														
	HA (55° C)						a		a				a		a																
ies	HA (65° C)																														
using	WL																														
Ballasthousing options & accessories	TR																														
Balla	RC3NP						_	Ц	_											Ц	-							<u>-</u>		_	_
ō	RC3NPWL	_	_	_	_	_	H	_	_	_	_	_		_	_	_			_	붜		片	H		_			片		H	=
	SCK SCK84	H	H	片	H	H	H	H	H	片	-	H		H	H	H		H		H		H	H					H		H	_
	SCK84 SCK120	H		H	H	H	H	H	H	H	-	=		H		H				H		H						H	H		
	CF	-	-	-	-	_	-	_	-		_	_		_		Ħ			_	_	-	Ħ			_			-	-	_	_
ic	GL17/GL22						_								_						_	-	-		_						
Optic options	T73										_																				
	UP																														
은	EC					П		П												П		П									
Quartz lamp options	QRS																											П			
Quar	QRSTD																										П				
	KW1																	2	2												
	KW4																	2	2												
ing .	KW150																	2	2												
HID dimming options	KW450																	2	2												
9 6	KW1S								•																						
	KW1SLT																														
	ISM	Ц		Ц	-		_		_	_	_	_		_	_		_				_	_	_		_			_		_	_
	НСЗР						H	님	H	4	_	<u> </u>					■,	6	1 6	님		H	-					<u> </u>		_	_
D D	HC3KP						H	H		<u> </u>	_	-		_	H		- 5	6	1 6	H		H						H		-	_
untin	LC3P LC3KP						H	H	H	H	-	=		H				6	6	H		H	H					H		H	
Cord mounting options	HC3PC3RWT							_	-		_	_		_	-			H		H		H	H					H		H	
S	SC3P	П				П	-											_	_		-	-	-		_	_	_	-	-	_	_
	SC3PD	H	-	ī		Ħ										i															
g	HOCS	_	_	_	f											_	5														
Reloc® mounting options	LOCS																5												Ħ		
m g	ocs																														
	LCPP						П										5												П		
¥	LCKPP																														
Power hook options	PPH																														
Powe	PPHKR																														
	TPH																														
	ТРНКР																														

Options & Accessories

		Ships attached	Ships separately
Universal nowe	r module hook and loop mounting	attacheu	separately
LUCP	Loop, cord and plug; for use with UPM11.2	•	
LUCPSF	LUCP, single fuse; dead front fusing; 120/277V only; for use with UPM1 ^{1,2}	•	
LUCPDF	LUCP, double fuse; dead front fusing; 208/240/480V only; N/A multi-tap ballast; for use with UPM1 ^{1,2}	•	
UPM1	Universal power module/hook adapter (specify voltage); luminaire requires LUCP, LUCPSF or LUCPDF		•
	r module mounting		
UCP	Universal cord and plug; for use with UPM ^{1,2,3}	•	
UCPSF	UCP with single fuse; dead front fusing; for use with UPM¹.2,3	•	
UCPDF	UCP with double fuse; dead front fusing; for use with UPM ^{1,2,3}	•	
UPM	Universal power module (specify voltage); luminaire requires UCP, UCPSF or UCPDF		•
Boxmounting	omersa por en module (opecar) no rage// ramman en equinos est / oct si oct si		
ТОВ	Through-wire outlet box ²		•
ТОВР	Through-wire outlet box plug-in ^{1,2}	•	•
PBP	Pendant box plug-in ^{1,2}	•	•
PSB	Pendant splice box (steel box) ²	•	
PM	Pendant splice box (die-cast aluminum box)		
Mounting hook	•		
HKM	Fixture hook, male		•
HKF	Fixture hook, female (3/4" threaded coupler)		•
HKMG	Grommeted fixture hook, male		•
LPM	Fixture loop, male		•
LPF	Fixture loop, female (3/4" threaded coupler)		•
LPMG	Grommeted fixture loop, male		•
Mounting bars	Groffinicaed fixed cloop, male		
SMB18	18" single-mounting bar; requires TR remote ballast option ^{2,4}		•
SMB24	24" single-mounting bar; requires TR remote ballast option ^{2,4}		•
TMB30	30" twin-mounting bar ²		•
TMB48	48" twin-mounting bar ²		•
WB	TG Series wall mounting bracket		
Wireguards	10 Series Wall Mountaing Blacket		
WGA	Wire quard for open Hi-Tek® high bay reflectors (specify reflector size 15, 16, 17 or 22)		
WGG	Wireguard for enclosed high bay reflectors (add WG to catalog number)	•	
WG	Wire guard for Hi-Tek® low bays		
LGA	Louver guard for open Hi-Tek® high bays (specify reflector size 16, 17 or 22)		
LGG	Louver guard for enclosed Hi-Tek® high bays (specify reflector size 17 or 22)		•
WGPG	Wire quard for prismatic glass high bays (specify reflector size 16, 21, 16A or 21A)		
GFWG	Full wire quard enclosed glass optic		
FWG	Full wire quard for Acrylume® optics		
Decorative sha			
DCY	Cylinder shade (specify reflector size and color) ⁵		
DSQ	Square shade (specify reflector size and color) ⁵		
DHX	Hexagonal shade (specify reflector size and color) ⁵		
Paint options	nevadorial situae (specify reflector size alla color)		
CR	Enhanced corrosion-resistant finish (polyester), housing and reflector ⁶	N/A	N/A
CRT			
	Non-stick protective coating, housing and reflector ⁶	N/A	N/A
Lamp options LPI	Lamp shipped in carton with fixture (N/A with incandescent)		
W/LAMP	Lamp ships separately (N/A with incandescent)		

NOTES:

- 1 Must specify voltage tap for TB and TBV in catalog number voltage field (TB1=120V, TB2=208V, TB3=240V, TB4=277V, TBV1=120V, TBV2=208V, TBV3=240V, TBV4=277V, TBV6=480V).
- 2 Cannot be combined with (WL) wet location option.
- 3 Available 120V or 347V only in Canada.
- 4 Requires (TR) remote ballast option.
- 5 Pendant mount on rigid conduit. Not for use with any self-leveling hanger.
- ${\small 6}\>\>\>\> Consult factory for environmental compatibility.$
- 7 Requires (PM) pendant splice box option.
- 8 Must be ordered with (GL17/GL22) tempered glass lens door enclosure.
- 9 Housing only.

Optional Architectural Colors

DNA Natural aluminum DSB Steel blue DMB Medium bronze Tennis green DTG DSS Sandstone DBL Black DWH White DGC Charcoal gray DBR Bright red Dark bronze DDB



c							High	bays															Lo	w ba	ys					
StandardOption available		SH A14	SH A15	SH A16	SH PA22	SPG	Ħ	TH A14	TH A15	THA16/A16GL	TH A17/A22	TH PA22/PA25	THDA15/A16	TPG	TPGE	SX A23	16	191	TGR	TX A125/A165	TX A20	TX A23	TX A26	TXD A23	TX A30	TXF A30F	TXF PA25ALE	TX PA22C	TX PA22GLE	TX PA25ALE
zer and ng	LUCP						•								•		•	7	1 7		•									
Universal power module hook and loop mounting	LUCPSF																	7	7											
iversa dule l	LUCPDF						П					П						7	7											
	UPM1																	7	7											
er	UCP																													
Universal power module mounting	UCPSF																											П		
versal ule m	UCPDF																											П		
Uni mod	UPM																											П		
	ТОВ																											П		
ıting	ТОВР																											П		
Box mounting	PBP																											П		
Box	PSB								a							П					a									
	PM																	П												
	нкм	П		П		П		П		П		П		П		П		П		П		П						П		П
oks	HKF	П		П		П		П		П		П		П		П	П	П		П		П						П		П
unting hoo and loops	HKMG	П	П	П		П	П		П	П				П	П	П		П	П	П	П	П	П							П
Mounting hooks and loops	LPM	П		П		П		П		П		П		П		П	П	П		П		П						П		П
W W	LPF	П		Ħ		П		Ħ		П		ī		П		П		П		П	П	П						ī		П
	LPMG	П	П	П		П	П	П		П		П		П	П	П		П	П	П	П	П	П					П		П
	SMB18							П																				П		
bars	SMB24							П		П		П																П		П
Mounting bars	TMB30							П		П		П									П							П		П
Mour	TMB48							П		П		П																П		П
	WB																													
	WGA			П										П																
	WGG										8																			
5 0	WG																					П		П						
juard	LGA			П						П																				
Wireguards	LGG																													
-	WGPG																													
	GFWG																													
	FWG														Ė					П									П	
a e	DCY				Ē				П	П																				
Decorative shades	DSQ						ī																							
Sh	DHX								ī																					
ns	CR										_	9	_	9	9							П						9	9	9
Paint options	CRT						-		Ē		_	_			9						_	_	Ē		-			_	_	
Lamp options o	LPI						_						٥	_	_															
													_																	