





BRAND PROFILE

- Founded in 1963

Hubbell Outdoor Lighting established its position as the high quality producer of outdoor lighting serving the full range of commercial, institutional and industrial outdoor applications. With an in-depth knowledge of the electrical distributor and contractor markets, Hubbell Outdoor Lighting has consistently combined innovative energy-saving technology, practical lighting solutions and service-oriented performance.

PRODUCT OFFERING

Hubbell Outdoor Lighting provides energy-efficient LED lighting solutions for a wide variety of outdoor applications including: floodlighting, wallpacks, landscape, parking garage, roadway, dusk-to-dawn, solar and vaportites. Hubbell Outdoor Lighting brands' luminaires integrate the latest LED advancements and deliver optical performance better than historical HID fixtures with higher lumen packages. By leveraging the advantages of solid state technology, our versatile portfolio delivers ideal outdoor lighting solutions with longer life, more visual acuity, better uniformity and reduced energy usage. All these attributes provide value-oriented, energy-saving, environmentally friendly luminaires.





LED

FLOODLIGHTING

LED PRODUCTS GUIDE

LED Products Guide/
Floodlighting and Building
Mount Selection Guides
pages 104-105



FSL
Floodlight
pages 106



FML
Floodlight
pages 107



Miniliter MHS
Floodlight
pages 108



Magnuliter MLED
Floodlights
page 109



Laramie LFS
Floodlight
page 110



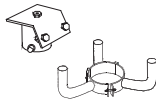
ALF
Floodlights
page 111



309
LED Lampholder
page 112



Floodlighting
Photocontrols
page 113



Floodlighting
Mounting/Accessories
page 114-115

WALLPACKS



Laredo LNC
Wallpack Family
page 116



Laredo LNC2
Wallpack Family
page 117



Laredo LCC
Wallpack
page 118



Laredo LMC
Wallpack
page 119



Laredo LMC BOC
Wallpack
page 119



TRPC/QSPC/RDIC
Compact Wallpacks
page 120



TRP
Wallpacks
page 121



QSP
Wallpacks
page 121



RDI
Wallpacks
page 121



RTP
Wallpacks
page 121



NRG*312 Series
Perimeter Wallpack
page 122



Perimaliter®
PGM3 Glass
Wallpack
page 123



Perimaliter®
PVL3 Polycarbonate
Wallpack
page 123

CEILING/SURFACE/CANOPY/GARAGE

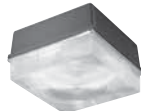
LED CONTROLS



Euroluxe® BRLU
Decorative
Wall/Ceiling
page 124



Hercules® HVS/HVL
Vandal Resistant
Series
page 124



Lumasquare® II
NRG*4000
page 125



Sedona SCP
Surface/Ceiling/Garage
page 126

LED CONTROLS GUIDE

Sedona SCP Controls
Surface/Ceiling/Garage
page 127

ROADWAY

VAPORTITES

DUSK-TO-DAWN

LANDSCAPE



RM Series
Roadway
page 128



RL Series
Roadway
page 129



VBGG/VWGG
Vaportites
page 130



DDL
Multipurpose Luminaire
page 131



12V LED Lightscape®
family page
132-133

SOLAR LIGHTING

SOLAR LIGHTING GUIDE



Laredo LCC DC
Solar Wallpack
page 135



Euroluxe® BRLU
Solar Wall/Ceiling
page 135



Laramie LFS
Solar Floodlight
page 136



RMCT Series
Solar Roadway
page 137



CR1D Series
Solar Area/Site
page 138



TMR/TMS Series
Solar Tempe Bollards
page 139

LED Products Guide

Hubbell Outdoor and Spaulding Lighting brands provide energy-efficient LED lighting solutions for a wide variety of outdoor applications from area/site, floodlighting, landscape and low level pedestrian to wallpacks. Hubbell Outdoor Lighting brands' luminaires integrate the latest LED advancements and deliver optical performance that can perform as well as, and in most cases, better than historical HID fixtures with higher lumen packages. By leveraging the advantages of solid state technology, our versatile portfolio delivers ideal outdoor lighting solutions with longer life, more visual acuity, better uniformity and reduced energy usage.

There are many factors to consider when choosing LED lighting. As leading experts in this field, we have developed performance information for each product below the ordering nomenclature. This resource will help guide you in your luminaire selection process.

PERFORMANCE INFORMATION

Each product in this guide includes complete product information in easy to read modules. Information specific to energy-efficiency, LED performance, traditional luminaire source equivalency, CCT and application is outlined below.



Percentage of energy savings over traditional light sources

Equivalent traditional light sources

Total watts consumed by luminaire

Suggested application

Voltage range options

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/ Current
	MH	HPS	CFL							
71% SAVINGS! LMC-30L	250w	250w	2x42w	6,023	70	86	15-18 ft.	5100K	120-277V	2@700mA
77% SAVINGS! LMC-30L-035	150w+	150w+	2x42w	3,448	35	99	12-15 ft.	5100K	120-277V	1@350mA

Industry listings, energy-efficient qualifications and environmental qualifications

Number of LEDs

Maximum lumens produced by luminaire

Luminaire efficiency

(CCT) Correlated Color Temperature

Number of drivers and drive current

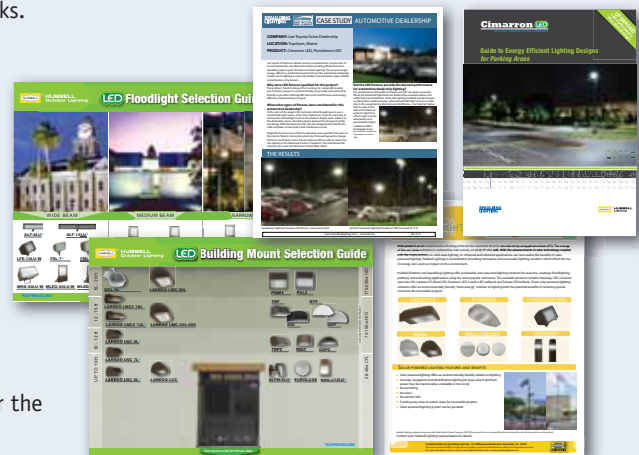
ADDITIONAL LED LIGHTING RESOURCES

Hubbell Outdoor Lighting brands offer additional on-line and printed resources providing information on energy-efficient LED lighting solutions for a variety of outdoor applications from area/site, floodlighting, landscape and low level pedestrian to wallpacks.

LED RESOURCES:

- LED building mount selection guide
- LED floodlighting selection guide
- Cimarron LED – Guide to energy efficient parking lot lighting designs
- Cimarron LED – Auto dealership case study
- Cimarron LED – TD convention center case study
- Roadway LED retrofit case study
- Solar lighting solutions

Visit www.hubbelloutdoorlighting.com or www.spauldinglighting.com for the most up-to-date information.



LED Selection Guides

Floodlighting Selection Guide

HUBBELL OUTDOOR



WIDE BEAM



MEDIUM BEAM



NARROW BEAM



ALF-6LU*



ALF-12LU*



LFS-12LU-W



FSL-7*



FML-14*



MHS-30LU-W



MLED-40LU-W



MLED-80LU-W



MLED-40LU-M



MLED-80LU-M



MHS-30LU-M



LFS-12LU-M



MLED-40LU-N



MLED-80LU-N



MHS-30LU-N



LFS-12LU-N

Building Mount Selection Guide

15 - 20 ft	<p>DDL-9L*</p>	<p>LAREDO LMC-30L</p>	<p>PGM3*</p>	<p>PVL3*</p>	175-250w HID		
12 - 15 ft	<p>LAREDO LNC2 18L</p>	<p>LAREDO LNC2 12L*</p>	<p>LAREDO LMC-30L-035</p>	<p>TRP</p>	<p>RTP</p>	70-150w HID	
10 - 12 ft	<p>LAREDO LNC 9L*</p>			<p>TRPC</p>	<p>RDIC</p>	<p>QSPC</p>	EQUIVALENT HID/CFL WATTAGES
UP TO 10 ft	<p>LAREDO LNC 7L*</p>	<p>LAREDO LNC 5L*</p>	<p>LAREDO LCC</p>	<p>ALFW-6LU*</p>	<p>EUROLUXE</p>	<p>NRG-312LU*</p>	26-42w CFL

*EXPRESSLINE PRODUCTS



HUBBELL
Outdoor Lighting

FSL LED FLOOD

Decorative Flood

FLOODLIGHTING

NEW





- Ultra-compact size measuring only 4.5" x 7.49" x 4.03"
- Wide flood NEMA 6 x 6 distribution for general purpose flood and facade lighting
- Traditional 1/2" x 14 NPS threaded adjustable knuckle mounting
- 120-277V operation (PC version 120V only)
- Rugged die-cast aluminum housing with dark bronze finish
- High impact UV stabilized acrylic outer lens protects LEDs and allows for cleaning and debris removal
- IP66, listed to UL1598 for use in wet locations
- Four color multi-language merchandising carton with application details
- Visor and vandal shield available
- Vented housing isolates LED module from driver maximizing product life and performance

ORDERING INFORMATION

Catalog Number	Mount	Beam Pattern	Wattage	Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
FSL-7	1/2" thread	Wide	26.5	1050mA	120-277V	5100K	2040	77	6 (2.7)
FSL-7-PC1	1/2" thread	Wide	26.5	1050mA	120V	5100K	2040	77	6 (2.7)

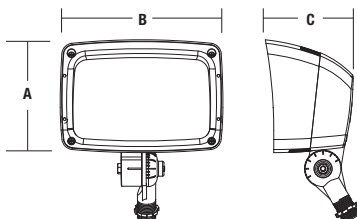
PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS	CFL								
 FSL-7	100w	100w	42w	2040	26.5	77	1450	Wide	5100K	120-277V	1@1050mA
 FSL-7-PC1											

ACCESSORIES - Order Separately

Catalog Number	Description
FSL-SPC	Polycarbonate shield/lens (Replaces existing acrylic lens)
FSL-VISOR	Top/Bottom visor (Tap holes in lens frame for field installation)

DIMENSIONS



A	B	C
4.5"	7.49"	4.03"
114 mm	190 mm	102 mm

LED FLOOD FML

Decorative Flood

- Compact size measuring only 6.68" x 9.63" x 4.53"
- Wide flood NEMA 6 x 6 distribution for general purpose flood and facade lighting
- Traditional 1/2" x 14 NPS threaded adjustable knuckle mounting
- 120-277V operation (PC version 120V only)
- Rugged die-cast aluminum housing with dark bronze finish
- High impact UV stabilized acrylic outer lens protects LEDs and allows for cleaning and debris removal
- IP65, listed to UL1598 for use in wet locations
- Four color multi-language merchandising carton with application details
- Visor and vandal shield available
- Vented housing isolates LED module from driver maximizing product life and performance



FLOODLIGHTING

ORDERING INFORMATION

Catalog Number	Mount	Beam Pattern	Wattage	Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
FML-14	1/2" thread	Wide	53	1050mA	120-277V	5100K	4285	81	8.5 (3.8)
FML-14-PC1	1/2" thread	Wide	53	1050mA	120V	5100K	4285	81	8.5 (3.8)

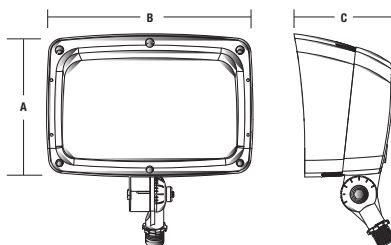
PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS	CFL								
FML-14	150w	150w	2x42w	4285	53	81	2805	Wide	5100K	120-277V	1@1050mA
FML-14-PC1											

ACCESSORIES - Order Separately

Catalog Number	Description
FML-SPC	Polycarbonate shield/lens (Replaces existing acrylic lens)
FML-VISOR	Top/Bottom visor (Tap holes in lens frame to field install)

DIMENSIONS



A	B	C
6.68"	9.63"	4.53"
169 mm	244 mm	115 mm

MHS

Miniliter® LED Series

NEW



MHS YOKE MOUNT

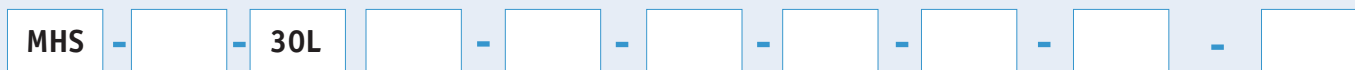


Energy-efficient LED floodlight for sign, facade, area, accent and general security lighting

- Die-cast aluminum housing and door, rugged, corrosion resistant and compact
- Tempered, impact resistant glass lens
- Tool-free entry for easy maintenance – twin stainless steel latches
- Protective dark bronze powder paint finish
- Effective Projected Area (EPA) is 1.4 sq. ft.
- 30 high powered LEDs deliver up to 6800 lumens at 700mA
- Different lenses offer a variety of beam spreads – N (2x2), M (4x4), RM (5x3) and W (6x6)
- 10KA surge protection included

- Up to 97 LPW, 3000K, 4200K, and 5100K CCT
- Silicone lens/door gasket provides positive seal
- Electronic driver 71w system. 0.4 AMPS max, 120-277V, 50/60Hz, 0-10V dimming
- Flat glass lens protects LEDs and allows debris removal
- Steel yoke (MHS-Y) with three-hole pattern allows versatile mounting
- Cast aluminum knuckle (MHS-K) slip-fits 2 3/8" OD tenons/pipe, provides concealed wiring for appearance and safety
- Listed to UL 1598 for use in wet locations
- Units meet ARRA level 2

ORDERING INFORMATION



FAMILY	MOUNTING	# LEDs	VOLTAGE	CCT	BEAM	DRIVE CURRENT	FIXTURE COLOR	PC	OPTIONS
MHS	Y Yoke K Knuckle	30L	U 120V-277V 1 120V 2 208V 3 240V 4 277V	3K ¹ 3000K, 80 CRI 4K ¹ 4200K, 70 CRI 5K ¹ 5100K, 67 CRI	N 2x2 M 4x4 RM 5x3 W 6x6	BLANK 700mA	BZ Bronze BL Black WH White GR Gray PL Platinum CC Custom Color	PC(X) Photo Control (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V)	F(X) Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V)

1 Nominal CCT

PERFORMANCE INFORMATION

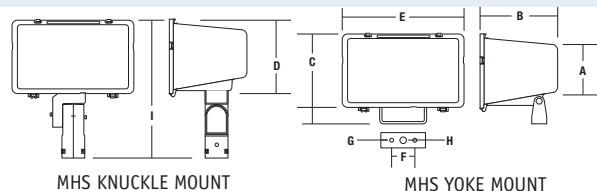
Series Number	Equivalency		Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS								
71% SAVINGS! MHS-X-30LU-3K-N	250w	250w	4500	71	64	34958	2 X 2	3000K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-3K-M	250w	250w	4632	71	65	19018	4 X 4	3000K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU3K-RM	250w	250w	4079	71	58	7146	5 X 3	3000K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-3K-W	250w	250w	4468	71	63	3755	6 X 6	3000K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-4K-N	250w	250w	5530	71	79	43674	2 X 2	4200K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-4K-M	250w	250w	5996	71	93	23391	4 X 4	4200K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-4K-RM	250w	250w	5163	71	74	9514	5 X 3	4200K	120-277V	1@700mA
71% SAVINGS! MHS-X-30LU-4K-W	250w	250w	5792	71	82	4538	6 X 6	4200K	120-277V	1@700mA
77% SAVINGS! MHS-X-30LU-5K-N	250w	250w	6045	71	85	45341	2 X 2	5100K	120-277V	1@700mA
77% SAVINGS! MHS-X-30LU-5K-M	250w	250w	6798	71	96	59331	4 X 4	5100K	120-277V	1@700mA
77% SAVINGS! MHS-X-30LU-5K-RM	250w	250w	5575	71	79	9246	5 X 3	5100K	120-277V	1@700mA
77% SAVINGS! MHS-X-30LU-5K-W	250w	250w	6164	71	87	4559	6 X 6	5100K	120-277V	1@700mA

DIMENSIONS

A	B	C	D	E	F	G	H	I	Weight
6 1/2"	14 1/2"	12"	9 7/8"	16 1/4"	3 1/8"	17/32"	7/8"	17"	20 lbs.
165 mm	368 mm	305 mm	251 mm	413 mm	79 mm	14 mm	22 mm	432 mm	(9.1) kgs.



HUBBELL
Outdoor Lighting



MHS KNUCKLE MOUNT

MHS YOKE MOUNT

Magnuliter LED Floodlights

The MLED family is a large area LED floodlight designed to provide multiple NEMA distributions for best beam utilization on your application. Typical uses are area lighting for safety and security, build façade illumination, flag lighting, large sign or statuary accent.

The family includes two LED assemblies, an 80 LED engine that produces a nominal 11,000 lumens and a 40 LED engine with 5,500 lumens. Each engine is featured with three NEMA beam spreads (3x3, 5x5, 7x7) to allow the best utilization of the lumens and reduce spill light. The light engine is protected from the elements by the sealed tempered molded glass outer lens.

- LED drivers are universal 120-277V, 50/60Hz
- 40 LED floods 107w, 120-277V
- 80 LED floods 179w, 120-277V
- The lens door is sealed with four stainless steel screws and features a convex molded glass protective lens sealed with silicone gaskets
- A heavy gauge steel full yoke with aiming angle increments provided along with locking washers and stars for vibration resistance
- Listed to UL1598 for use in wet locations, IP65 rated









FLOODLIGHTING

ORDERING INFORMATION

MLED	-		-	U	-	5K	-		-		-	
SERIES		NUMBER OF LEDS		VOLTAGE		CCT		BEAM SPREAD		FINISH		OPTIONS
MLED Magnuliter LED Series		40L 40 LEDs 80L 80 LEDs		U 120-277V		5K 4800K nominal		W Wide 7x7 M Medium 5x5 N Narrow 3x3		Standard BZ Bronze Optional BL Black GR Gray WH White		PRU Photocontrol receptacle 120-277V SP Surge protection

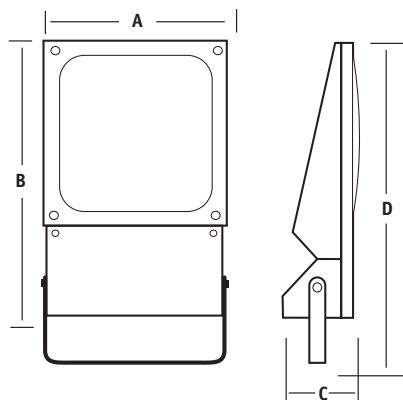
PERFORMANCE INFORMATION

Series Number	Equivalency		Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS								
 MLED-40LU-W	250w	250w	5,326	106	50	1,938	7 X 7	4800K	120-277V	1@625mA
 MLED-80LU-W	400w	400w	9,874	176	55	3,585	7 X 7	4800K	120-277V	2@525mA
 MLED-40LU-M	250w	250w	6,731	107	59	9,531	5 X 5	4800K	120-277V	1@625mA
 MLED-80LU-M	400w	400w	11,226	178	62	17,648	5 X 5	4800K	120-277V	2@525mA
 MLED-40LU-N	250w	250w	6,469	107	60	36,306	3 X 3	4800K	120-277V	1@625mA
 MLED-80LU-N	400w	400w	11,532	179	64	61,540	3 X 3	4800K	120-277V	2@525mA

ACCESSORIES - Order Separately

Catalog Number	Description
4024C	2 3/8" O.D. slipfitter for yoke units – Bronze
4090	Heavy-duty cast iron crossarm fitting for horizontal trunnion; Bronze Lektrocote®

DIMENSIONS



A	B	C	D	EPA	Weight
16"	18.75"	4.25"	21"	2.0 ft ²	20 lbs.
406 mm	476 mm	108 mm	534 mm	0.06 m ²	9.09 kg

Laramie LFS

Compact Decorative Flood

FLOODLIGHTING



The LFS Series is the wide, uniform beam lighting solution for sign, façade and general lighting of smaller areas. The die-cast construction is not only rugged but has new styling that matches the larger Laramie 400 and other fixtures.

These LED systems allow the designer a wide range in lumen, energy and maintenance considerations.

LED distributions provide optimized lighting solution options.

Cataloged in five standard finishes, the LFS fixture can be ordered to blend or contrast with most architectural elements. The Lektrocote®

powder paint system is baked on for long life and minimum color change due to UV exposure.

Button photocontrols for dusk-to-dawn energy savings.




- 1/2" swivel knuckle allows universal aiming from standard junction boxes and adapters
- Listed to UL1598 for use in wet locations
- U.S. Patent No. 6,461,026

ORDERING INFORMATION

LFS	-	12	-	5K	-		-		-	
SERIES	NUMBER OF LEDS/VOLTAGE	LED COLOR	BEAM	FINISH	OPTIONS					
LFS Laramie Flood Small	12 12 LEDs, Universal voltage 120-277V	5K 5000K	W 6x6 M 4x4 N 1x1	BZ Bronze BL Black GR Gray WH White PS Platinum	P(1) ¹ 120V button photocontrol P(2) ¹ 208V button photocontrol P(3) ¹ 240V button photocontrol P(4) ¹ 277V button photocontrol P(6) 347V button photocontrol					

¹ Change "12LU" to 12L1 for 120V, 12L2 for 208V, 12L3 for 240V or 12L4 for 277V

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS	CFL								
 LFS-12LU-W	70w	70w	26w	937	13	72	494	6 X 6	5000K	120-277V	1@700mA
 LFS-12LU-M	70w	70w	-	948	13	72	2,001	4 X 4	5000K	120-277V	1@700mA
 LFS-12LU-N	70w	70w	-	961	13	73	28,939	1 X 1	5000K	120-277V	1@700mA

ACCESSORIES - Order Separately, Field Installed

Catalog Number	Description
1031-3	Portable spike with 1/2" top hub and 6ft cord set, platinum/gray finish
LFP-JB-BZ	Round pole-side junction box with hardware, 1/2" cover and bottom hub, bronze
LFS-SPC	Polycarbonate shield
LFS-GS	Glare shield, black
MIC-TB	Half yoke wiring box, bronze
NM-BC	Non-metallic box and cover burial box with cable connectors
PBT-1	Button photocontrol 120V
PBT-234	Button photocontrol 208, 240, 277V
S-302-M51	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, bronze
S-302-M52	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, white
S-302	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, platinum/gray
S329B	Wet location surface box with cover, (4) side and (1) cover 1/2" hub, nat. alum.

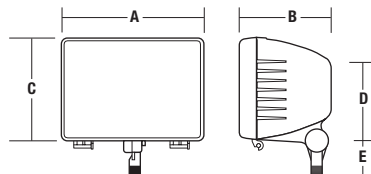
REPLACEMENT PARTS

Catalog Number	Description
93004823	Replacement lens
207-5011-0264	Bronze knuckle

Typical weight: 12 lbs.
EPA: 0.7 sq.ft.

DIMENSIONS

	A	B	C	D	E
LFS	10.25"	6.5"	8"	4"	2.5"
	260 mm	165 mm	203 mm	102 mm	63.5



HUBBELL
Outdoor Lighting

Architectural LED Floodlight/Wall Mount

- ALF is excellent for small floodlighting applications such as signs, façade, landscape accent or small area illumination
- The compact, low profile size allows the flood to be easily hidden or blend into the landscape environment.
- Knuckle mount: Universal 1/2" swivel knuckle has serrated teeth for sure aiming
- Wall mount: Cast aluminum cover/quick mount plate and universal adapter allows easy installation to 3 1/2" or 4" standard junction boxes; Tilt for increased forward throw
- Universal voltage driver is 120-277V, 50/60Hz, with 10 or 22 input watts
- Tempered and impact resistant glass lens with decorative silk screen seals to housing with silicone gaskets
- Dark bronze powder paint finish provides durable and lasting appearance
- Six or Twelve 1.5w LEDs produce 848 or 1655 lumens at 5100K
- Wide 110 degree lateral spread covers three times the set back distance with uniform light
- Listed to UL 1598 for use in wet locations





FLOODLIGHTING

ORDERING INFORMATION


Catalog Number	Wattage	Number of LEDs	Voltage ¹	Lumens	TM-21-11 L70	Kelvin	Weight lbs. (kg)
1/2" Knuckle Mount							
ALF-6LU-5K-BZ	10.7w	6	120-277V	905	60,000hrs	5100K	4.0 (1.8)
ALF-12LU-5K-BZ	21.5w	12	120-277V	1910	60,000hrs	5100K	8.0 (3.6)
Wall Mount							
ALFW-6LU-5K-BZ	10.7w	6	120-277V	905	60,000hrs	5100K	4.5 (2.0)
ALFW-6LU-5K-BZ-PC	10.7w	6	120V	905	60,000hrs	5100K	4.5 (2.0)

¹ Unit should not be used above 240V in Canada

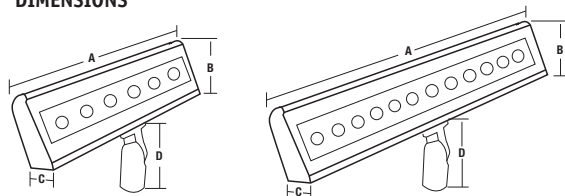
PERFORMANCE INFORMATION – ALF 6 & 12 FLOODS

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Max Candle Power	Beam Pattern	CCT	Voltage	Drivers/Current
	MH	HPS	CFL								
 ALF-6LU	70w	70w	26w	905	10.7	85	621	6 X 5	5100K	120-277V	1@470mA
 ALF-12LU	100w	100w	42w	1910	21.5	89	1208	6 X 5	5100K	120-277V	2@470mA

PERFORMANCE INFORMATION – ALF 6 WALLMOUNT

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 ALFW-6LU	70w	70w	26w	905	10.7	89	Up to 10 ft.	5100K	120-277V	1@470mA

DIMENSIONS



A	B	C	D
12/24"	3 1/2"	1 1/2"	3 1/2"
305/609.6 mm	89 mm	38 mm	89 mm

A	B	C	D
5 1/2"	6 1/2"	1 1/8"	2 1/8"
139 mm	165 mm	28 mm	54 mm



309

LED Lampholder

FLOODLIGHTING




- Decorative dark bronze finish
- 15w - nominal 255 lumens
- Die-cast aluminum housing
- Tempered glass lens
- Large 1/2" swivel knuckle, universal aim
- 120-277V operation
- CSA certified to UL 1598, CSA 22.2 No. 250.0-00, Suitable for wet locations
- Deep shield, wire guard accessories available
- 3500K color temperature
- Uses AFF lower knuckle

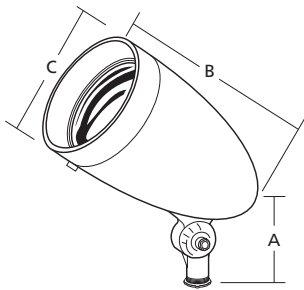
ORDERING INFORMATION

Catalog Number	Description	Finish	Weight lbs. (kg)
LED - Wet Location Listed - Universal Aiming			
30910LEDML	LED bullet flood	Bronze	5 (2.2)

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Beam Pattern	CCT	Voltage	Drivers/ Current
	MH	HPS	CFL							
 30910LEDML	50w	-	26w	255	14.9	17	5 X 5	3500K	120-277V	1@350mA

DIMENSIONS








A	B	C
5"	9 7/8"	5 3/8"
127 mm	251 mm	136 mm

Photocontrols



ORDERING INFORMATION

Catalog Number	Voltage	Max. Watts Incand.	Max. Watts HID		Weight lbs. (kg)	
			HPF	NPF		
Photocontrol - Button Type¹						
	PBT-1 ⁶	120	1200	400	250	.125 (0.1)
	PBT-234 ⁶	208/240/277	1200	400	250	.125 (0.1)
Photocontrol - 1/2" Thread Mount²						
	PTA-1 ⁶	120	2000	1000	400	.25 (0.1)
	PTA-8 ⁶	120-277	2000	1000	400	.25 (0.1)
	PTA-5 ⁶	480	2000	1000	400	.25 (0.1)
Photocontrol - Twist-Lock[®] Cell³						
	PTL-1 ⁶	120	1800	1000	400	.25 (0.1)
	PTL-8 ⁶	120-277	1800	1000	400	.25 (0.1)
	PTL-5	480	1800	1000	400	.25 (0.1)
	PTL-6 ⁶	347	1800	1000	400	.25 (0.1)
Receptacle - Remote Twist-Lock[®] Cell with Bracket⁴						
	PRR	120-480	1800	1000	400	.5 (0.2)
Shorting Cap - Twist-Lock[®] Mount⁵						
	PSC	Completes circuit - Eliminates PCR				.25 (0.1)

- 1 Miniature photocontrol sealed in a sturdy plastic housing 2 1/16" x 1 1/8" x 7/8" with 3/4" nipple length, nipple dia. is 3/8" pipe thread - 5/8" outside diameter fits 1/2" tapped hubs; Use in any suitable enclosed box or luminaire; A gasket and lock nut provide weather tight seal at exit point
- 2 Weatherproof photocontrol in a polycarbonate housing with field adjustable light sensitivity level feature; 3 5/8" x 2" x 1 1/2" housing with 5/8" nipple length
- 3 Weatherproof Twist-Lock[®] photocell enclosed in a high butyrate protective housing; Meets EEI-NEMA standards; For use with Twist-Lock[®] receptacles (PCR)
- 4 Remote receptacle for PTL Twist-Lock[®] cell; Includes aluminum angle bracket and color coded leads; Bolts to wood poles, crossarms, walls or any flat surface
- 5 Weatherproof shorting cap to complete circuit and allow fixture to operate when Twist-Lock[®] photocontrol (PTL) is not used; For use with Twist-Lock[®] receptacles (PCR)
- 6 CSA certified



Mounting Accessories

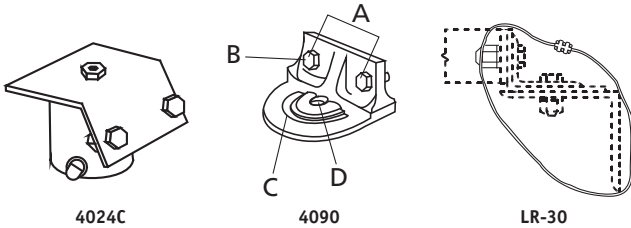
Accessories: Trunnion Mount Fittings

FLOODLIGHTING

ORDERING INFORMATION

Catalog Number	Description	Weight lbs. (kg)
HID Floodlights		
4024C	Steel slipfitter for 2" pipe, 2 3/8" OD yoke mount, bronze finish; Also available in gray: 4024CM53 , black: 4024CM50 , and galvanized: 4024CM38 (consult factory for adders)	4 (1.8)
4090	Heavy-duty cast iron crossarm fitting for horizontal trunnion; Bronze Lektrocote®	3 (1.4)
LR-30¹	Safety retainer complete with crimp clamp and 30" long 1/8" stranded metal cable	.3 (0.1)

¹ For yoke (trunnion) mounted units only



	A	B	C	D
4090	3 1/8" 79 mm	9/16" dia. 14 mm	5/16" slot 8 mm	13/16" dia. 21 mm

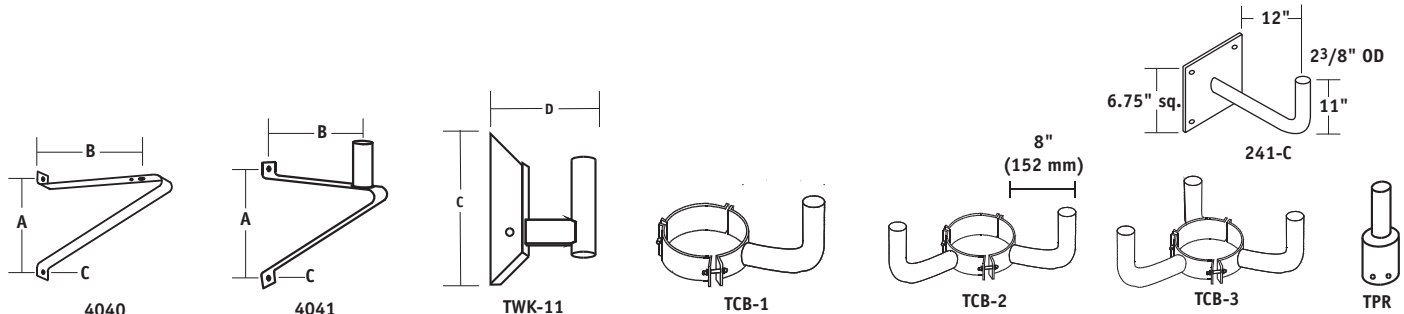
Accessories: Wall and Pole Mount Brackets

ORDERING INFORMATION

Catalog Number	Description	Weight lbs. (kg)	Maximum Loading Weight
For Use With Crossarm Fittings			
4040	Heavy-duty steel wall/pole bracket; bronze Lektrocote®	5.5 (2.5)	90 (40.8)
For Use With Slipfitter Fittings			
4041	Heavy-duty steel wall/pole bracket 2" pipe (2 3/8" OD) tenon fitting for use with slipfitter units or 4024C; bronze Lektrocote®	7 (3.2)	90 (40.8)
241-C-XX	Flat surface bracket - 90° horn steel (2 3/8" OD)	16 (7.3)	70 (30.7)
TWK-11	Wall bracket with splice compartment for thru-wiring with 2" pipe (2 3/8" OD) tenon	15 (6.8)	90 (40.8)
TCB-1	Wood pole clamp on bracket with 2" pipe (2 3/8" OD) tenon; Clamps 6" to 12" diameter	16 (7.3)	70 (31.7)
TCB-2	Wood pole clamp on bracket with 2" pipe (2 3/8" OD) tenon; Two tenons at 120° (clamps 6" to 12" diameter)	20 (9.1)	140 (63.4)
TCB-3	Wood pole clamp on bracket with 2" pipe (2 3/8" OD) tenon; Three tenons at 120° (clamps 6" to 12" diameter)	28 (12.7)	210 (95.1)
Tenon Reducers			
TPR-2¹	2 1/2" to 2" pipe size tenon reducer	6 (2.7)	105 (47.6)
TPR-3²	3" to 2" pipe size tenon reducer	8 (3.6)	105 (47.6)
TPR-4³	4" to 2" pipe size tenon reducer	9 (4.1)	105 (47.6)

Note: Bronze color standard, for other colors add suffix to catalog number: -M50 black finish, -M52 white finish, -M53 gray finish.

- 1 Bracket I.D., 3 1/16"
- 2 Bracket I.D., 3 1/2"
- 3 Bracket I.D., 4 5/8"



	A	B	C	D	E
4040/4041	8 1/4" 210 mm	9 1/2" 241 mm	11" 279 mm	8" 203 mm	11/16" dia. 17 mm

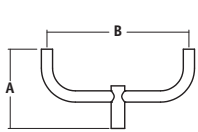
Mounting Accessories

Accessories: Steel Bullhorns

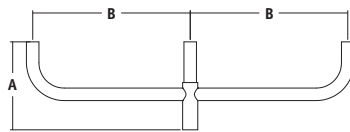
Steel "bull horn" floodlight brackets. Fixture mounting pipe or tenons are 2³/₈" O.D. and brackets mount on 2³/₈" O.D. pole tenons. Stainless steel set screws and thru-bolts included. Finishes as shown below.

ORDERING INFORMATION

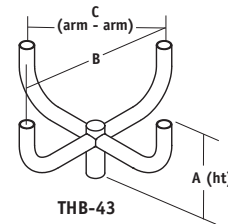
Catalog Number	Maximum Loading		Description	Finish	Weight lbs. (kg)	EPA ft ² (m ²)
	Fixture Qty.	Weight lbs (kg)				
THB-21	2	210 (95.3)	Two tenons at 180°	Bronze	17 (7.7)	.9 (0.1)
THB-21-M53	2	210 (95.3)	Two tenons at 180°	Gray	17 (7.7)	.9 (0.1)
THB-31	3	315 (142.9)	Three tenons at 180°	Bronze	30 (13.6)	1.5 (0.1)
THB-32	3	315 (142.9)	Three tenons at 120°	Bronze	23 (10.4)	1.2 (0.1)
THB-41	4	420 (190.5)	Four tenons at 180°	Bronze	43 (19.5)	2.2 (0.2)
THB-43	4	420 (190.5)	Four tenons at 90°	Bronze	29 (13.1)	1.3 (0.1)



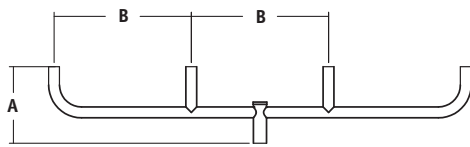
THB-21



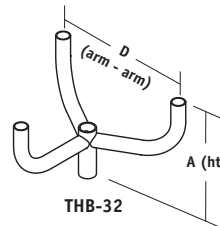
THB-31



THB-43



THB-41



THB-32

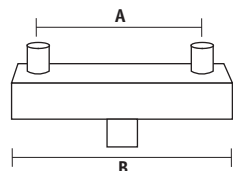
A	B	C	D
17"	30"	21.25"	26"
431 mm	762 mm	539 mm	660 mm

Accessories: Square Steel Brackets (Project finishes available)

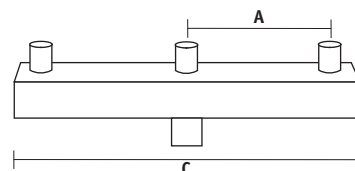
Decorative steel floodlight brackets. 4" square tubing with 2³/₈" O.D. fixture tenons. Square 4" bottom with 2¹/₂" I.D. internal adapter for standard round tenons. Available in multiple finishes as shown. Use with SSS series poles.

Catalog Number	Description	Maximum Weight Per Tenon		EPA		Weight	
		lbs.	(kg)	ft ²	(m ²)	lbs.	(kg)
SSB-21-M51	Twin 180°	60	(27.2)	1.2	(0.1)	24	(10.9)
SSB-31-M51	Triple 180°	60	(27.2)	2.3	(0.2)	44	(19.9)
SSB-41-M51	Quad 180°	60	(27.2)	3.4	(0.3)	64	(29)
SSB-43-M51	Quad 90°	60	(27.2)	2.8	(0.3)	46	(20.8)

Note: Bronze color standard, for others, add suffix to catalog number: -M50 - Black finish; -M52 - White finish; -M53 - Gray finish.

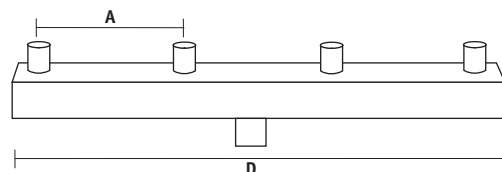


SSB-21

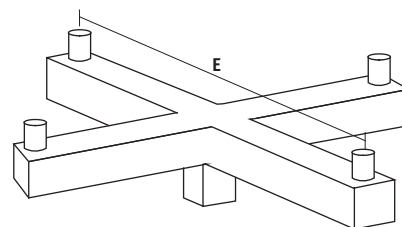


SSB-31

A	B	C	D	E
24"	30"	54"	78"	30"
610 mm	762 mm	1372 mm	1981 mm	762 mm



SSB-41



SSB-43

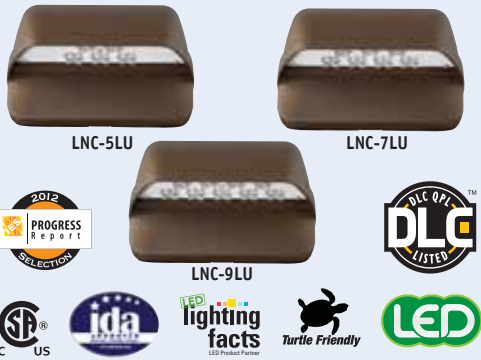


HUBBELL
Outdoor Lighting

Laredo LNC

Compact LED Wallpack

WALLPACKS



The compact Laredo LED LNC is designed for perimeter illumination, available in 3 lumen packages for safety, security and identity. This compact fixture has zero uplight, neighbor friendly. Typical mounting height up to 12 feet with 40ft fixture spacing (without acrylic diffuser) and 30ft spacing with acrylic diffuser installed. Photocontrol option is available.

APPLICATIONS

Zero uplight, IDA compliant entry/perimeter lighting. Listed to UL1598 for use in wet locations. Features long-life (60,000hr L90 rated) high CRI 5000K LEDs, quick mount adapter and designed for both recessed box or surface conduit wiring. DesignLights Consortium (DLC) qualified. Additional CCT/CRI options available in the larger lumen packages.

- IES Progress Award Winner - 2012

ORDERING INFORMATION - LNC 5L

CATALOG NUMBER	WATTAGE	NUMBER OF LEDS	VOLTAGE	LUMENS ¹	TM-21-11 L70 ²	CCT	WEIGHT LBS. (KG)
LNC-5LU-5K	12.6w	5	120-277V	967	60,000hrs	5000K	4.0 (1.8)
LNC-5LU-5K-PC	12.6w	5	120V	967	60,000hrs	5000K	4.0 (1.8)

- 1 Type III distribution. When using acrylic diffuser accessory lumen output is 650 with increased uniformity
- 2 Projected per IESNA TM-21-11

ORDERING INFORMATION - LNC 7L/9L

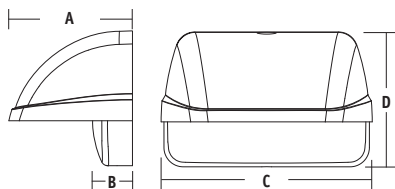
SERIES	NUMBER OF LEDS/SOURCE/VOLTAGE	CCT	IES DISTRIBUTION	FINISH	OPTIONS
LNC Laredo Cut-off	7LU 7 LEDs, Universal voltage 120-277V 9LU 9 LEDs, Universal voltage 120-277V	3K 3000K nominal, 80 CRI 4K 4200K nominal, 70 CRI 5K 5000K nominal, 67 CRI AM² Amber (590 μm available for "Turtle Friendly"/observatory applications; consult factory)	3 Type III 4 Type IV	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	PC(X)¹ Button photo-control, replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V

- 1 When PC is ordered, input must match PC voltage
- 2 Amber LEDs are 035mA drive current

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
LNC-5L	50w	50w	42w	967	12.8	75.5	up to 10 ft.	5000K	120-277V	1@700mA
LNC-7L	70w	70w	42w	1,389	16.4	80	up to 11 ft.	5000K	120-277V	1@700mA
LNC-9L	100w	100w	42w	1,745	21.9	80	10-12 ft.	5000K	120-277V	1@700mA

DIMENSIONS



A	B	C	D
4.81"	1.55"	8.22"	5.25"
122 mm	39 mm	209 mm	133 mm

Laredo LNC2

Compact LED Wallpack

The compact Laredo LED LNC2 is designed for perimeter illumination for safety, security and identity. Slightly larger than the LNC, the Laredo LNC2 has greater lumens and increased performance. The LNC2 achieves up to 85% energy savings over traditional metal halide. This compact fixture has no uplight and is neighbor friendly with typical mounting height up to 15 feet and 60ft fixture spacing (without acrylic diffuser) and 40ft spacing with acrylic diffuser installed. Fixtures have protective polyester finish in four color choices.

APPLICATIONS

Zero uplight, IDA compliant entry/perimeter lighting. Listed to UL1598 for use in wet locations. Features long-life (60,000hr L96 rated), high CRI, 3000K, 4200K, and 5100K LEDs. Single SKU designed for both recessed box or surface conduit wiring, includes quick-mount adapter for ease of installation. DesignLights Consortium (DLC) qualified. Acrylic diffuser softens high angle output for use at entrances or pedestrian pathways.

- IES Progress Award Winner - 2013



WALLPACKS



ORDERING INFORMATION

SERIES	NUMBER OF LEDS/SOURCE/VOLTAGE	CCT	IES DISTRIBUTION	FINISH	OPTIONS
LNC2 Laredo LNC2	12LU 12 LEDs, Universal voltage 120-277V 18LU² 18 LEDs, Universal voltage 120-277V	3K 3000K nominal 80 CRI 4K 4200K nominal 70 CRI 5K 5100K nominal 67 CRI AM² Amber (590 μm available for "Turtle Friendly"/observatory applications, 350mA; consult factory	3 Type III 4 Type IV	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	PC(X)¹ Button photo-control, replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V

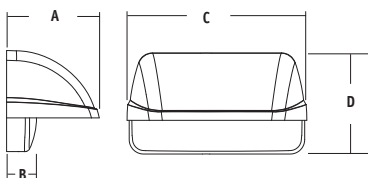
1 When PC is ordered, input must match PC voltage

2 Amber LEDs only available on 18LU configurations, 350 mA only. Universal Voltage 120V-277V

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 LNC2-12LU-5K-3-1	150w	150w	2x42w	2,420	28.6	85	Up to 15 ft.	5100K	120-277V	1@700mA
 LNC2-18LU-5K-3-1	150w+	150w+	2x42w+	3,311	42.3	78	Up to 15 ft.	5100K	120-277V	2@700mA

DIMENSIONS



A	B	C	D	Weight
6.25"	1.6"	10.25"	5.6"	7.0 lbs.
158.7 mm	40.2 mm	260.4 mm	142.2 mm	3.2 kg

Laredo LCC

Compact Wallpack

WALLPACKS



The compact Laredo is designed for entrance and single story perimeter lighting, 6-12 foot applications. Energy-saving LED featuring die-cast aluminum housing and door. Protective lens is tempered glass. All units have no uplight and are IDA compliant, neighbor friendly, so light trespass and glare will not be an issue after installation.

APPLICATIONS

Zero uplight, IDA compliant entry or perimeter lighting. Listed to UL1598 for use in wet locations.


- Features exclusive wiHUBB technology
 - Wireless system for On/Off and 0-10VDC full range dimming control
 - Programmable autonomous operation

ORDERING INFORMATION

LCC	-	12LU	-	5K	-	
SERIES		NUMBER OF LEDS/VOLTAGE		CCT		OPTIONS
LCC Laredo Compact Cut-off		12LU 12 LEDs, Universal voltage 120-277V, 50/60Hz		5K 5000K nominal, 67 CRI		PHOTOCONTROL PC1 120V button photocontrol PC2 208V button photocontrol PC3 240V button photocontrol PC4 277V button photocontrol WIH¹ In fixture wireless control module
				FINISH 1 Bronze 2 Black 3 Gray 4 White 5 Platinum		

¹ Consult factory for availability

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 LCC-12LU-5K	50w	50w	42w	820	12.4	65	Up to 10 ft.	5000K	120-277V	1@350mA

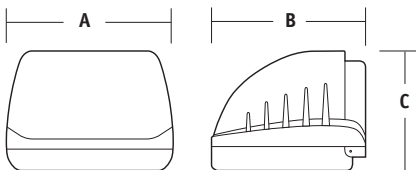
ACCESSORIES - Order Separately

Catalog Number	Description
LCC-SPC	Polycarbonate shield
PBT-1	120V button photocontrol
PBT-234 ¹	208/240/277V button photocontrol
PTA-1	External 120V photocontrol (use for 70w)
PTA-8	External 120-277V photocontrol (use for 70w)

REPLACEMENT PARTS

Catalog Number	Description
93012460	Replacement lens all others

DIMENSIONS



A	B	C
9.0"	9.5"	7.2"
229 mm	241 mm	183 mm

Laredo LMC

Medium-Size Wallpack

Laredo 30 LED medium size wallpack offers both wide spacing and excellent uniformity. The 30 LED unit is available in lumen packages ideal for mounting heights from 12 to 18 feet; providing spacings of up to five times the mounting height. The 30 LED unit is available in a wide Type III or forward throw Type IV beam.

The fixture is constructed of durable die-cast aluminum housing and door. The Laredo features a quick-mount adapter that allows installation without ever opening the fixture. Save on installation time, fixture maintenance and energy!

LMC-30LU Egress Wallpack:

Designed to meet strict 1fc minimum requirements. At 12ft mounting height 1fc covers 16x16ft area, well beyond the 10x10ft standard. 43.5w - 350mA drives 30LEDs at 2700 lumens at full power/ 2046 average lumens in battery mode. Outer clear impact resistant glass lens protects LED lenses. No uplight, external test button quick mount, wet location listed.

APPLICATIONS

Zero uplight, IDA compliant perimeter lighting. Listed to UL1598 for use in wet locations when mounted aimed down.





WALLPACKS

ORDERING INFORMATION - STANDARD CONFIGURATIONS

LMC	-		-		-		-		-	
SERIES	NUMBER OF LEDS/SOURCE/VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	FINISH	OPTIONS				
LMC Laredo Medium Cut-off	30LU 30 LEDs, Universal voltage 120-277V 30LF 30 LEDs, 347V	4K 4200K nominal, 70 CRI 5K 5100K nominal, 67 CRI	3 Type III 4 Type IV	BLANK Std. is 700mA 035 350mA	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	PC(X)¹ Photocontrol WIH In fixture wireless control module				

¹ PC(X) Replace X with 1-120V, 2-208V, 3-240V, 4-277V

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 LMC-30L	250w	250w	2x42w+	6,023	71.7	84	15-18 ft.	5100K	120-277V	2@700mA
 LMC-30L-035	150w+	150w+	2x42w+	3,448	35.4	97.4	12-15 ft.	5100K	120-277V	1@350mA

ACCESSORIES - Order Separately

Catalog Number	Description
LMC-SPC	Polycarbonate shield
PBT-1	120V button photocontrol
PBT-234	208/240/277V button photocontrol

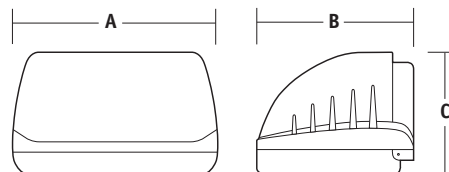
ORDERING INFORMATION - EGRESS LAREDO LMC

LMC	-	30LU	-		-	3	-	035	-	
SERIES	NUMBER OF LEDS/SOURCE/VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	FINISH	OPTIONS				
LMC Laredo Medium Cut-off	30LU 30 LEDs, Universal voltage 120-277V	4K 4200K nominal 5K 5100K nominal	3 Type III	035 350mA	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	BBU277² Intergral battery for 120-277V, rated for -20° C ambient BOC277² Intergral battery for 120-277V, rated for 0° C ambient PC(X)² Photocontrol				



LMC-30LU BBU/BOC

² 2,046 lumens at 10w for 5K CCT in battery mode



A	B	C
16"	12.125"	9.0"
406 mm	308 mm	229 mm



HUBBELL
Outdoor Lighting

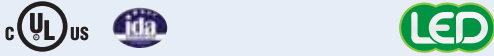
QSPC/TRPC/RDIC

Compact Architectural Sconces

WALLPACKS



- Compact Geometric wall sconce series – QSP, TRP, RDI
- 13 LED, 23w, 1184 lumen, 5000K energy saving system, universal voltage 120-277V, 50/60Hz
- Provides excellent illumination and uniformity
- Zero uplight, dark sky, neighbor friendly
- RDIC has removable internal panel allowing conversion to up/down output
- Durable die-cast aluminum construction
- Bronze powder coat standard finishes
- LED has controlled optics with protective tempered glass outer lens for uniform distribution
- Lamps included
- Quick-mount adapter for easy installation on recessed J-boxes
- Listed to UL 1598 for use in wet locations



ORDERING INFORMATION



SERIES

- QSPC** Quarter Sphere Compact Wallpack
- TRPC** Trapezoid Compact Wallpack
- RDIC** Radius Compact Wallpack

#LEDS/SOURCE/VOLTAGE




13LU-5K 13 LEDs, 120-277V

FINISH¹

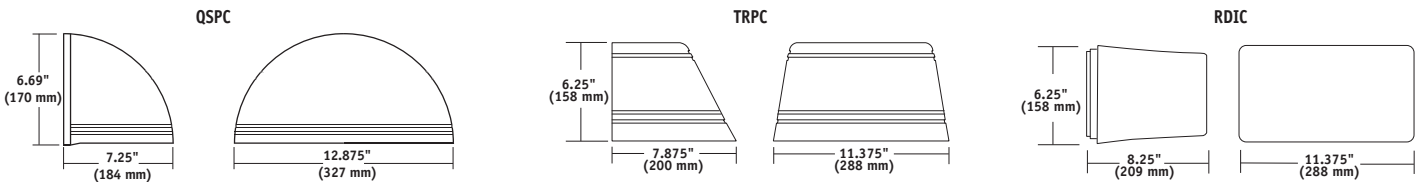
BZ Bronze

¹ Available in Bronze finish only

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 QSPC-13LU-5K	50w	50w	42w	1,184	23	51	10-12 ft.	5000K	120-277V	1@470mA
 RDIC-13LU-5K	50w	50w	42w	1,184	23	51	10-12 ft.	5000K	120-277V	1@470mA
 TRPC-13LU-5K	50w	50w	42w	1,184	23	51	10-12 ft.	5000K	120-277V	1@470mA

DIMENSIONS



TRP/QSP/TRP/RDI

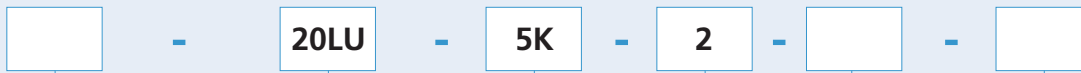
Architectural Wallpacks

- Architectural wallpack in four stylish shapes with contours to accentuate building architecture
- Provides excellent illumination and uniformity
- Durable die-cast aluminum construction
- Energy-efficient LED 36w system produces 2500 lumens with 70 LPW efficacy
- Type II distribution
- Quick-mount adapter for j-boxes and integral bubble level for easy installation
- LED color temperature 4700 nominal
- Listed to UL 1598 for use in wet locations
- Zero uplight, dark sky, neighbor friendly
- Five year limited warranty



WALLPACKS

ORDERING INFORMATION

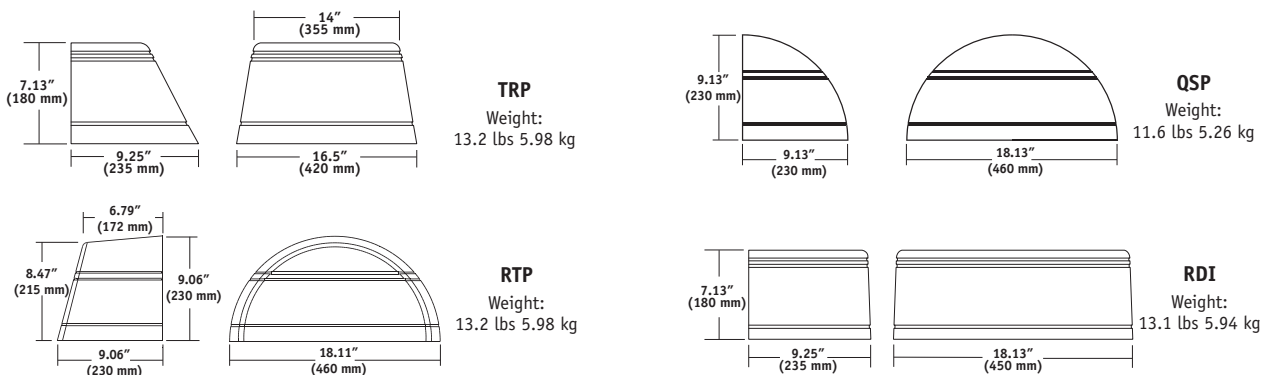


SERIES	#LEDS/SOURCE/VOLTAGE	CCT	DISTRIBUTION	FINISH	OPTIONS
TRP Trapeziod	20LU 20 LEDs, 120-277V	5K 4700K nominal	2 Type II	DB Bronze BL Black GR Gray WH White PS Platinum	PC(X) Button photocontrol, specify voltage 1-120V, 2-208V, 3-240V, 4-277V
RDI Radius					
RTP Radius Trapeziod					
QSP Quarter Sphere					

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
TRP-20LU-5K	150w	150w	2x42w	2,466	35.5	68	12-15 ft.	4700K	120-277V	1@333mA
RDI-20LU-5K	150w	150w	2x42w	2,558	35.5	71	12-15 ft.	4700K	120-277V	1@333mA
RTP-20LU-5K	150w	150w	2x42w	2,509	35.5	70	12-15 ft.	4700K	120-277V	1@333mA
QSP-20LU-5K	150w	150w	2x42w	2,591	35.5	72	12-15 ft.	4700K	120-277V	1@333mA

DIMENSIONS



NRG® 312

Perimeter Wallpack

WALLPACKS




- Full polycarbonate front provides vandal resistance and uniform light distribution; Internally painted bronze finish for lasting appearance
- 12LED unit provides long-life with low energy consumption, a perfect upgrade for older units
- Rugged cast aluminum back housing for rigid mounting; Bottom 1/2" conduit knockout for surface conduit wiring
- Back hub allows access to recessed wiring boxes; Two point mounting
- Units available with or without 120V button photocontrol, see ordering information
- Listed to UL 1598 for use in wet locations
- Tamper resistant center pin Torx hardware included

ORDERING INFORMATION

Catalog Number ¹		Wattage	Voltage	Color	Weight lbs. (kg)
Without Photocontrol	With Photocontrol				
12 LED – 1120 Lumens – 5000K – 73 CRI					
NRG-312LU-5K-BZ	NRG-312LU-5K-BZ-PC¹	18w	120-277V (-PC120)	Bronze	6 (2.7)

¹ 120V only when ordered with photocontrol

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 NRG-312LU	50w	50w	42w	1120	18	63	Up to 10 ft.	5000K	120-277V	1@350mA

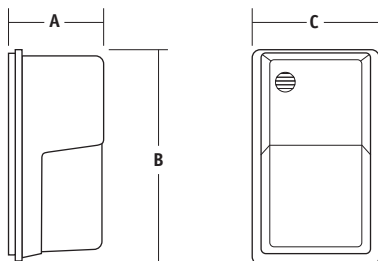
ACCESSORIES - Order Separately

Catalog Number	Description
PBT-1	Button photocontrol, 120V
PBT-234	Button photocontrol, 208, 240, 277V

REPLACEMENT PART

Catalog Number	Description
SM352-COVER	Polycarbonate front cover, Bronze

DIMENSIONS



A	B	C
5.39"	11.02"	6.89"
137 mm	280 mm	175 mm

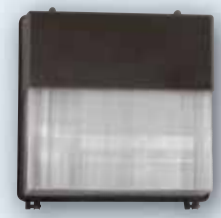
Perimaliter® LED Wallpacks

PGM3 Glass and PVL3 Polycarbonate

- Perimeter lighting for safety, security and identity - LED units provide 60-70% energy savings over typical pulse start wallpacks. Uses include office buildings, shopping centers, restaurants, schools, warehouses, parking garages and other commercial applications
- The die-cast aluminum housing provides firm mounting over recessed junction boxes; 1/2" side hubs for surface conduit wiring; Housing includes a top hub for use with button photo controls for dusk-to-dawn control; The construction not only provides a rigid mount but an excellent heat sink for the LED system, allowing proper operating temperature for optimum performance and long life (50,000hr)
- LEDs with CCT of 5100K, 4200K and 3000K are available
- Two door options are available: A cast aluminum with prismatic borosilicate glass assembly and an all polycarbonate, one-piece, vandal resistant door
- Typical mounting heights of 12-15 feet; The lateral spread allows typical spacing of three to four times the mounting height with excellent uniformity
- Available in two lumen outputs
- Listed to UL 1598 for use in wet locations



PGM3



PVL3





WALLPACKS

ORDERING INFORMATION

Catalog Number	Construction	Wattage	Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
PGM3-30LU-3K-BZ	Glass refractor	71	700ma	120-277V	3000K	3932	56	16
PGM3-30LU-3K-035-BZ	Glass refractor	34	350ma	120-277V	3000K	2338	69	15
PGM3-30LU-4K-BZ	Glass refractor	69	700ma	120-277V	4200K	5157	69	16
PGM3-30LU-4K-035-BZ	Glass refractor	34	350ma	120-277V	4200K	2955	88	15
PGM3-30LU-5K-BZ	Glass refractor	69	700ma	120-277V	5100K	5678	82	16
PGM3-30LU-5K-035-BZ	Glass refractor	34	350ma	120-277V	5100K	3209	96	15
PVL3-30LU-3K-BZ	Polycarbonate refractor	71	700ma	120-277V	3000K	3490	49	11
PVL3-30LU-3K-035-BZ	Polycarbonate refractor	34	350ma	120-277v	3000K	2089	62	10
PVL3-30LU-4K-BZ	Polycarbonate refractor	69	700ma	120-277V	4200K	4505	66	11
PVL3-30LU-4K-035-BZ	Polycarbonate refractor	34	350ma	120-277V	4200K	2614	78	10
PVL3-30LU-5K-BZ	Polycarbonate refractor	69	700ma	120-277V	5100K	4873	69	11
PVL3-30LU-5K-035-BZ	Polycarbonate refractor	34	350ma	120-277V	5100K	2757	81	10

Notes: *Units are universal voltage 50/ 60 hz. Change "U" to 347v or 480v for those voltage options. On PGM3, for other finishes, change BZ to BL-Black, WH-White, GR-Gray, PS-Platinum Silver

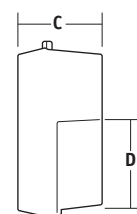
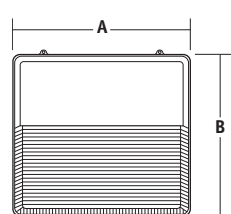
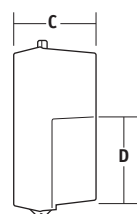
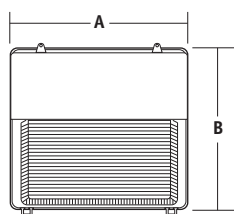
PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/ Current
	MH	HPS	CFL							
 PGM3-30LU	250w	250w	-	5,678	69	82	15-18 ft.	5100K	120-277V	1@700mA
 PVL3-30LU	250w	250w	-	4,873	69	71	15-18 ft.	5100K	120-277V	1@700mA

REPLACEMENT PARTS - Order Separately

Catalog Number	Description
200-0180-9904	Replacement lens/door PVL3
80033990104	Replacement lens/door PGM3

DIMENSIONS



	A	B	C	D
PGM3	14 7/8"	15"	8"	6 13/16"
	378 mm	381 mm	203 mm	173 mm

	A	B	C	D
PVL3	14 7/8"	15"	8"	7 7/16"
	378 mm	381 mm	203 mm	189 mm



HUBBELL
Outdoor Lighting

BRLU

Euroluxe® Decorative Wall/Ceiling Series

WALL/SURFACE



- Use for wall or ceiling applications at entrances, stairs, corridors or single story building accent
- Borosilicate glass lens with silicone gasket; Shields the lamp and softly spreads the light in a symmetrical distribution
- Die-cast aluminum housing and face trims; Two point mount to recessed wiring boxes; (no side conduit feeds); Twin stainless steel screws secure the trims and lens to the housing
- BRLU LED unit available in 15w, 120-277V, 830 lumens, 5000K, 50/60Hz
- Finishes in dark bronze, white and black
- Listed to UL1598 for use in wet locations

ORDERING INFORMATION

Catalog Number	Shape	Finish	Wattage	Volts	Weight lbs. (kg)
BRLU-01	Round	Bronze	15w	120-277V	6.0 (2.7)
BRLU-04	Round	White	15w	120-277V	6.0 (2.7)

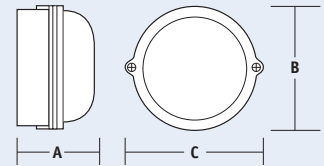
ACCESSORIES - Order Separately

Catalog Number	Description
BR-GX ¹	Cast aluminum guard for round fixture
BR-SX ¹	Cast aluminum shield for round fixture

¹ Finish must be specified, substitute X for: 1-bronze, 2-black, 4-white.

REPLACEMENT PARTS

Catalog Number	Description
266-0067-9904	BR replacement lens



	A	B	C
BRLU	5 1/2"	9 1/2"	10 1/8"
	140 mm	241 mm	257 mm

HVS

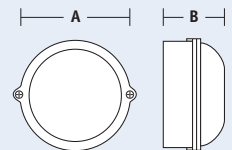
Hercules® Decorative Vandal Resistant Luminaires



- Opal polycarbonate lens retained with cast aluminum door/trim frame and gasketed to housing; Allen head tamper-resistant screws standard
- Two sizes (HVS/HVL) for proper scale; Cast aluminum housing with lag mount for durability; Cast trims provide styling and added protection
- Opal lens provides a soft uniform Type V distribution; Wattage/source selections allow the designer to select the desired footcandle level
- Powder paint finishes accent building trim and protect your investment; Standard color is dark bronze
- Listed to UL 1598 for use in wet locations

ORDERING INFORMATION: HVS COMPACT SERIES

Catalog Number	Style	Wattage	Source	Voltage	Finish
HVS0-6LU-5K-1	Opal Lens	15w	LED	120-277V	Bronze
HVSG-6LU-5K-1	Guard	15w	LED	120-277V	Bronze
HVSH-6LU-5K-1	Hood	15w	LED	120-277V	Bronze




REPLACEMENT PART

Catalog Number	Description
264-0400-9903	Replacement lens only for HVS units

	A	B
HVS0	10 1/10"	5"
	257 mm	127 mm
All Others	10 1/10"	5 1/2"
	257 mm	140 mm

PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	INC	HPS	CFL							
 BRLU/HVS	100w	50w	28w	830	15.2	55	Up to 10 ft.	5000K	120-277V	1@700mA

NRG[®] 4000 LED Series

Lumasquare[®] II High Performance LED Indoor/Outdoor Lowbay Series

- Designed for illumination of commercial indoor/outdoor lowbay applications including: mechanical rooms, retail, covered loading docks and utility areas
- Rugged, die-cast housing has a durable Lektrocote[®] finish available in bronze, white, black and gray. Mounts over recessed J-box and features two convenient 1/2" side hubs for surface conduit mounting
- Stainless steel vandal-resistant screws standard
- Fully gasketed for weatherproof/bug-proof integrity
- 4200K CCT (70 CRI) nominal and 5100K CCT (67 CRI) nominal
- One-piece, injection-molded, clear prismatic acrylic refractor enhances space with upright; High temperature acrylic for reduced yellowing, uniform light distribution and low glare; High transmittance acrylic featuring 82-84% efficiencies plus three times impact strength of standard acrylic
- Listed to UL1598 for use in wet locations
- Five year limited warranty
- 10KA surge protector standard







ORDERING INFORMATION

Catalog Number	Mounting	Wattage	Voltage	Lumens	Drive Current
NRG4-30LU-4K-035-BZ	Ceiling/conduit	35	120-277V	3355	350mA
NRG4-30LU-4K-BZ	Ceiling/conduit	70	120-277V	5872	700mA
NRG4-30LU-5K-035-BZ	Ceiling/conduit	35	120-277V	3543	350mA
NRG4-30LU-5K-BZ	Ceiling/conduit	70	120-277V	6122	700mA

1 For alternate housing finish change BZ to WH-White, BL-Black, GR-Gray

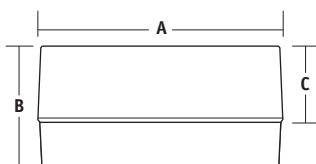
PERFORMANCE INFORMATION

Series Number	Equivalency			Number of LEDs	Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	Voltage	Drivers/Current
	MH	HPS	IND							
 NRG4-30LU-4K-035-BZ	70w	70w	70w	30	3355	35	96	up to 16 ft.	120-277V	1@350mA
 NRG4-30LU-4K-BZ	100w	100w	85w	30	5872	70	84	up to 16 ft.	120-277V	1@700mA
 NRG4-30LU-5K-035-BZ	70w	70w	70w	30	3543	35	101	up to 16 ft.	120-277V	1@350mA
 NRG4-30LU-5K-BZ	100w	100w	85w	30	6122	70	87	up to 16 ft.	120-277V	1@700mA

REPLACEMENT PART

Catalog Number	Description
800-3289-0100	Replacement refractor kit

DIMENSIONS



A	B	C	Weight
14" sq.	8 1/8"	4 3/4"	13.9 lbs.
356 mm	206 mm	121 mm	6.3 kg

Sedona – Surface/Ceiling/Garage Luminaire

CEILING/SURFACE/GARAGE



- For ceiling mount, parking garage, tunnel and walkway applications from an 8-18 foot mounting height; A wide range of lumen packages and optical distributions are available making the SCP Series luminaire both versatile and functional
- Vertically finned cast aluminum housing for maximum heat dissipation ensuring long component life and luminaire performance
- Choice of symmetric and asymmetric distributions for layout flexibility
- Dimming driver standard, 0-10V
- The SCP's hexagonal LED cluster design provides optical flexibility and light level scalability from a compact luminaire
- Lumen packages ranging from 3,700 – 8,600 with 18-36 LEDs
- Energy-efficient 92-100 lumens per watt
- IP-65 luminaire rating
- Choice of powder paint gray, bronze, black, white or platinum provides durable and lasting appearance
- Listed to UL 1598 for use in wet locations
- Occupancy, photocell, and wiHUBB wireless controls available for complete on/off and dimming operation

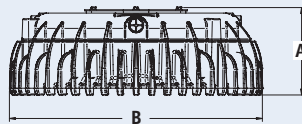
ORDERING INFORMATION



SERIES	NUMBER OF LEDs	VOLTAGE	CCT	IES DISTRIBUTION	FINISH	OPTIONS
SCP Sedona surface/ceiling/garage luminaire	18L 18 LEDs, 43w input 24L 24 LEDs, 57w input 36L 36 LEDs, 86w input	U 120-277V 1 120V 2 208V 3 240V 4 277V 5 480V F 347V	4K 4200K nominal, 70 CRI 5K 5100K nominal, 67 CRI	5M Type V square 5R Type V rectangle 4 Type IV	DB Bronze BL Black WH White PS Platinum Silver GR Gray	PC(X) Button photocontrol, replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V, 6-347V F(X) Fusing 1-120V, 2-208V, 3-240V, 4-277V, 6-347V WIH In fixture wireless control, consult factory

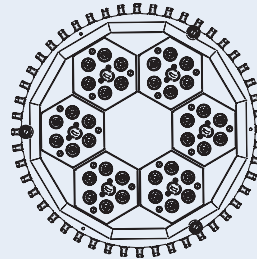
ACCESSORIES - ORDER SEPARATELY

Catalog Number	Description
SCP-SPC	Vandal shield
SCP-BS	Bird shield



A	B
4.85"	14.00"
123.19 mm	355.6 mm

Weight 16lbs. 7.27 kg



MOTION CONTROL OPTIONS

- SCO** On/Off control - No light output when no motion detected
- SCP** High/Low control - user programmable low settings of 70, 60, 50, 20% of power; Factory default is 50%

PERFORMANCE INFORMATION

Series Number	Equivalency			Number of LEDs	Delivered Lumens		System Watts	Lumens Per Watt	Mounting Height	Voltage	Drivers/Current
	MH	HPS	IND		4200K	5100K					
SCP-18LU-5R	70w	70w	70w	18	4020	4298	43	100	8 - 16 ft.	120-277V	2@700mA
SCP-24LU-5R	100w	100w	85w	24	5375	5750	57	100	8 - 16 ft.	120-277V	2@700mA
SCP-36LU-5R	150w	150w	100w	36	8030	8596	86	100	8 - 16 ft.	120-277V	3@700mA
SCP-18LU-5M	70w	70w	70w	18	3835	4102	43	95	8 - 16 ft.	120-277V	2@700mA
SCP-24LU-5M	100w	100w	85w	24	5110	5469	57	96	8 - 16 ft.	120-277V	2@700mA
SCP-36LU-5M	150w	150w	100w	36	7670	8204	86	95	8 - 16 ft.	120-277V	3@700mA
SCP-18LU-4	70w	70w	70w	18	3725	3981	43	92	8 - 16 ft.	120-277V	2@700mA
SCP-24LU-4	100w	100w	85w	24	5020	5369	57	94	8 - 16 ft.	120-277V	2@700mA
SCP-36LU-4	150w	150w	100w	36	7445	7962	86	92	8 - 16 ft.	120-277V	3@700mA

SCP Controls

Sedona LED luminaire with passive infrared motion sensor control option (individual luminaire control)

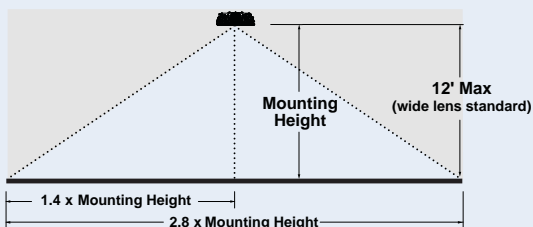
Sedona LED luminaires with motion sensor option can be configured to illuminate from low to high power or off to on when motion is detected. Luminaire will return to off or low when motion is no longer detected.

- Digital Passive Infrared (PIR) sensor with dual element pyrometer and spherical fresnel lens for detection of major human motion/activity; Objects in path of sensor line of sight can limit coverage
- Two versions available – high/low or on/off
- User programmable low settings of 70, 60, 50, 20 percent of power; Factory default is 50% of power
- 360° sensor range
- 12 ft. maximum mounting height indoors (wide lens standard)
- Low temperature (-30°C to 40°C maximum) indoor-outdoor sensors
- User programmable sensor setting mode (test/normal)
- Time out delay is field adjustable; User programmable settings of 5, 10, 15 & 30 min; Factory default setting is 5 minutes
- All units equipped with daylight harvesting which can be user enabled. Factory default setting is disabled; Ambient light range is user selectable from 1-50 FC; Daylight harvesting feature has precedence over motion control turning fixture completely on or off
- Sensor conforms to UL Standard 508, UL Standard 244A & IP65
- Conforms to California Title 24/ASRAE 90.1/CBEA

Design Considerations

- Vehicle detection is possible however less reliable than human detection; Vehicle detection is dependent upon the following: rate of speed, mounting height of luminaire and vehicle background temperature (see sensor range diagram below)
- Start up delay from initial motion detection to fixture illumination is approximately 1-2 seconds

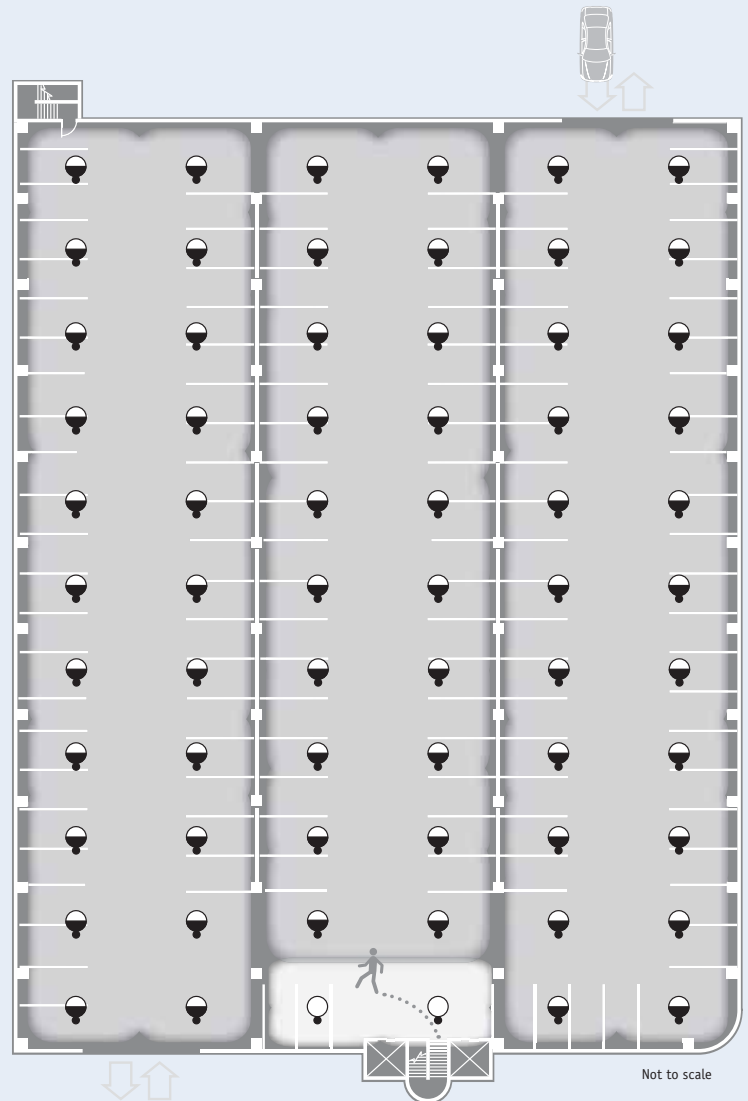
Sensor Range



Examples

Luminaires installed at a 12 ft mounting height results in a 11 ft detection radius (22 ft. diameter). A vehicle moving 10 mph travels a distance of 15 ft per second. As a result illumination would not occur until vehicle is beneath luminaire.

Luminaires installed at a 12 ft mounting height results in an 11 ft detection radius (22 ft. diameter). A pedestrian moving 3 mph travels a distance of 4.5 ft per second. As a result illumination would occur when pedestrian is within 6-8 ft of the luminaire.



Sedona Luminaire with passive infrared sensor control

- High 100% light output
- Low light output

Ordering Information

Sedona luminaire offers the following motion sensor options:

- SCO – On/Off control - No light output when no motion detected
Reference Sedona specification page for additional ordering information
- SCP – High/Low control – user programmable settings of 70, 60, 50, 20% of power; Factory default is 50%



HUBBELL
Outdoor Lighting

RM LED

Roadway RM30 Series

ROADWAY



- Designed for roadway, parking, area and perimeter lighting; These versatile Roadway luminaires are designed to replace existing cobra-head style fixtures from 70-150w while saving up to 50% in energy; LED luminaires feature optimum uniformity, elimination of 'hot spots' and zero uplight
- 3800 lumens at 350 mA or 6700 lumens at 700 mA
- 30 LED light engine
- Standard IES distributions of Type II, III, IV, V with up to 111 LPW efficiency
- 120-277V, 347/480V electronic dimming drivers, 2 at 700 mA, 1 at 350 mA
- Die-cast aluminum housing
- Lektrocote® finish in 2 standard and custom colors
- IP65 LED light engine assembly and drivers
- 10KA surge protector standard
- DesignLights Consortium qualified

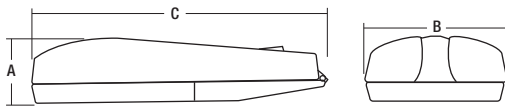
ORDERING INFORMATION

SERIES	NUMBER OF LEDS	VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	PHOTOCONTROL RECEPTACLE	OPTIONS	FINISH
RM	30L							
RM	30L 30 LEDs	U 120-277V 5 480V	3K 3000K nominal, 80 CRI 4K 4200K nominal, 70 CRI 5K 5100K nominal, 67 CRI	2 Type II 3 Type III 4 Type IV 5M Type V	BLANK 700 mA 035 350 mA	2 None 3 Yes	F(X) Fusing, replace X with voltage, specify: 1-120V 2-208V 3-240V 4-277V 5-480V 6-347V	BK Black DB Dark Bronze CC Custom Color (Reference RAL#) GR Gray PS Platinum Silver WH White

PERFORMANCE INFORMATION

Series Number	Equivalency		Delivered Lumens		Number of LEDs	System Watts		Lumens Per Watt	CCT	Drivers/Current
	MH	HPS	Type 2	Type 3		120V-277V	347V-480V			
RM-30LU-3K	175w	150w	4612	4632	30	70	70	65	3000K	2@700mA
RM-30LU-4K	250w	250w	5844	5840	30	70	70	83	4200K	2@700mA
RM-30LU-5K	250w	250w	6712	6718	30	70	70	95	5100K	2@700mA

DIMENSIONS



A	B	C	EPA	Weight
6.75"	13"	29.75"	0.6 ft. ²	14.20 lbs.
171 mm	330 mm	756 mm	.05 m ²	6.44 kg.

RL LED

Roadway RL60 Series

- Designed for roadway, parking, area and perimeter lighting; These versatile Roadway luminaires replace existing cobra-head style fixtures from 200-400w while saving up to 65% in energy; LED luminaires feature optimum uniformity, elimination of 'hot spots' and zero uplight
- 12000 lumens at 700 mA
- Standard IES distributions of Type II, III, IV, V with up to 86 LPW efficiency
- Two 30 LED light engines
- 120-277V, 347/480V electronic dimming drivers (4) standard
- Die-cast aluminum housing
- Lektrocote® finish in 2 standard and custom colors
- IP65 LED light engine assembly and drivers
- 10KA surge protector standard
- DesignLights Consortium qualified



ROADWAY

ORDERING INFORMATION

SERIES	NUMBER OF LEDS	VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	PHOTOCONTROL RECEPTACLE	OPTIONS	FINISH
RL Zero uplight large Roadway	60L 60 LEDs	U 120-277V 5 480V F 347V	3K 3000K nominal, 80 CRI 4K 4200K nominal, 70 CRI 5K 5100K nominal, 67 CRI	2 Type II 3 Type III 4 Type IV 5M Type V	BLANK 700 mA (141w)	2 None 3 Yes	F(X) Fusing, replace X with voltage, specify: 1-120V 2-208V 3-240V 4-277V 5-480V 6-347V	BK Black DB Dark Bronze CC Custom Color (Reference RAL#) GR Gray PS Platinum Silver WH White

PERFORMANCE INFORMATION

Series Number	Equivalency		Delivered Lumens		Number of LEDs	System Watts		Lumens Per Watt	CCT	Drivers/Current
	MH	HPS	Type 2	Type 3		120V-277V	347V-480V			
31% SAVINGS! RL-60LU-3K	250w	150w	8833	8694	60	141	141	63	3000K	4@700mA
56% SAVINGS! RL-60LU-4K	320w	400w	11044	11062	60	141	141	79	4200K	4@700mA
56% SAVINGS! RL-60LU-5K	320w	400w	11759	12058	60	141	141	85	5100K	4@700mA

DIMENSIONS



A	B	C	EPA	Weight
8.25"	15.75"	36.75"	1.0 ft. ²	28 lbs.
210 mm	400 mm	933 mm	0.1 m ²	12.7 kg.

VBGL/VWGL LED Series

Wet Location LED Vaportites

VAPORTITES



- Compact size measuring only 5.2" x 10.37" (wall mount version slightly larger)
- 757 lumens, 11w system, 70 LPW
- Frosted glass lens distributes light evenly without any LED brightness or glare
- Pendant mount version accommodates traditional 1/2" x 14 NPS threaded conduit
- 120-277V operation, 50/60Hz
- Rugged die-cast aluminum housing with removable cast aluminum guard with vandal resistant set screws included, gray finish
- IP65, listed to UL1598 for use in wet locations (unit is not rated for use in hazardous locations)
- Four color multi-language merchandising carton with application details

ORDERING INFORMATION

Catalog Number	Construction	Mount	Wattage	Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
VBGL-1	Globe refractor	Ceiling/Pendant	11	250mA	120-277V	4000K	757	70	3.4 (1.54)
VWGL-1	Globe refractor	Wall	11	250mA	120-277V	4000K	757	70	3.6 (1.63)

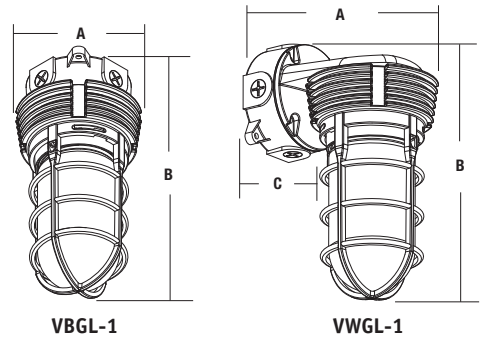
PERFORMANCE INFORMATION

Series Number	Equivalency		Delivered Lumens	System Watts	Lumens Per Watt	Beam Pattern	CCT	Voltage	Drivers
	INC	CFL							
VBGL-1	150w	32w	757	11	70	Symmetric	4000K	120-277V	1
VWGL-1	150w	32w	757	11	70	Symmetric	4000K	120-277V	1

REPLACEMENT GLOBES

Catalog Number	Description
VAMG-100	Amber
VBG-100	Blue
VBGP-100	Blue, tempered
VCGP-100	Clear, tempered
VCGPT-100	Clear, tempered w/ Tuffskin® coating
VGL-FG	Frosted globe
VGL-GUARD	Guard with set screws
VG-15	Clear, standard
VGG-100	Blue Green
VGGP-100	Blue Green, tempered
VPG-100	Purple
VRG-100	Ruby
VRGP-100	Ruby, tempered
VRGP-100	Ruby
VRS-100	Green

DIMENSIONS



	A	B	C
VBGL-1	5.2"	10.37"	-
	132 mm	263 mm	-
VWGL-1	7.34"	11"	5.2"
	186 mm	280 mm	132 mm



DDL Dusk-to-Dawn

Multi-purpose LED Luminaire

- Zero uplift design for environmentally friendly installations
- Refractor provides enhanced security lighting and LED brightness control
- 40w system with up to 3437 lumens and 86 LPW
- Symmetric lens installed standard
- Field rotatable asymmetric lens included
- 120V operation
- 120V twist-lock style photocontrol included
- Rugged die-cast aluminum housing with both 2-3/8" & 1-5/8" OD mast arm mount capability as well as direct wall/surface mounting
- Textured gray powder paint finish
- Four color multi-language merchandising carton with application details
- 24" (18" projection) arm included





DUSK-TO-DAWN

ORDERING INFORMATION

Catalog Number	Construction	Mount	Wattage	Drive Current	Voltage	Color Temperature	Lumens	LPW	Weight lbs. (kg)
DDL-9L1	Die-cast aluminum	Arm/Wall/Surface	40	1280mA	120V	5100K	3437	86	6.8 (3.08)

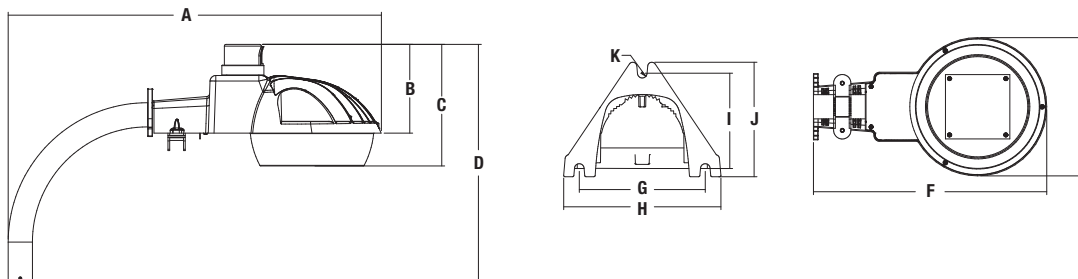
PERFORMANCE INFORMATION

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Mounting Height	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
 DDL-9L1 (Symmetric lens)	100w	100w	85w	3437	40	86	up to 20 ft.	5100K	120V	1@1280mA
 DDL-9L1 (Asymmetric lens)	100w	100w	85w	3246	40	81	up to 20 ft.	5100K	120V	1@1280mA



Shown with acrylic refractor attached

DIMENSIONS



A	B	C	D	E	F	G	H	I	J	K
29.72"	6"	8.25"	16.19"	9.45"	16"	3.62"	4.52"	2.74"	3.29"	.138"
754 mm	152 mm	209 mm	411 mm	240 mm	406 mm	92 mm	115 mm	69 mm	84 mm	3.5mm

12V LED Lightscaper® System

Long Life, Easy to Install, No Maintenance Lighting System

LANDSCAPE



- LED landscape fixtures, long life, low energy consumption, no maintenance, three-year limited warranty
- Die-cast aluminum construction, professional grade, built to perform with durable design
- Powder coat polyester epoxy finish maintains lasting beauty
- 1.5w path fixtures in 7 styles; 3w flood and recessed uplight; 3000K CCT
- Path and flood fixtures are complete with stake, 4' fixture cable, and "Smart Connect" tool-free connector; Flat surface deck adapter included
- Control center is UL listed for wet locations and features non-metallic housing, grounded cord set, photocontrol, and easy cable connect

A simple system, easy to install and maintain, with low energy consumption for safety, security and property enhancement. Go Green with Hubbell Lightscaper® LED products!

ORDERING INFORMATION

Catalog Number	Finish	Description	Weight
TULIP			
TL-AB	Antique Bronze	The plant lover's favorite. Sweeping stem tulip, 20" tall with decorative leaves. Use along paths, walks, or to accent special plantings. Creates a 6' pool of light to the front. Needs little or no watering!	2.25 lbs
TL-AG	Antique Green		
CONE			
CO-AB	Antique Bronze	Create a tropical image. The basic 7" dia. cone shape sits 15" high and creates a 5' lighted area with soft, indirect shielded light. Excellent for subtle illumination of plants or walkways.	2.0 lbs
CO-AG	Antique Green		
GREENVILLE			
GN-AB	Antique Bronze	A stately appearance with classic shape. Stands 16" tall with 5" dia. head. Frosted lens provides soft lighting of taller surrounding plantings with 5' coverage. Use along walkways, steps. Typical spacing 8'-12'.	2.75 lbs
GN-PT	Pewter		
MISSION			
MS-AB	Antique Bronze	Traditional and classic. Complements a wide variety of architecture. Soft glow to side and ground. Stands 16" tall with 5" square head. Typical spacing 8'-10'.	3.25 lbs
MS-AG	Antique Green		
SATURN			
SA-AB	Antique Bronze	Modern and distinctive. Shepherd's crook arm supports copper-top head with cone shape lens. Lighting covers 6' circle with ample vertical illumination for taller plantings. Adjustable arm. Make a statement with Saturn!	2.75 lbs
SA-PT	Pewter		
REIDVILLE			
RD-AB	Antique Bronze	Bell-shaped head supported by decorative arm and sturdy staff. Full cut-off pattern provides 5' light pool on ground with no glare. Perfect for highlighting walkways, flowers and specimen plants. Typical spacing 8'-10'.	3.25 lbs
RD-PT	Pewter		
SEASHELL			
SS-AB	Antique Bronze	Large seashell with adjustable knuckle. Use as full cut-off or tilt up (45° max.) for larger area coverage.	2.0 lbs
SS-AG	Antique Green	A powerful and flexible luminaire for lighting large flower beds or building perimeter plantings.	
EYELID			
EL-AB	Antique Bronze	Round eyelid for deck post or steplighting. Can be surface mounted or semi-recessed. Use for accent or small area illumination of perimeters or stairways. 2' mounting height provides soft coverage 5' w, 2' forward. 6' fixture cable.	1.0 lbs
EL-PT	Pewter		
RECESSED			
RE-PT	Pewter	Round recessed uplight for accent lighting of trees, columns and building facades. Powerful 3w LED projection beam. Provides hidden light source.	1.5 lbs
FLOODLIGHT			
FL-AB	Antique Bronze	Powerful 3w LED projection flood with adjustable knuckle for versatile aiming. Use for accent lighting of building facades, small signs or address numbers, columns, trees and residential flags to 20'.	2.0 lbs
CONTROL CENTER			
LVT56	Black	Non-metallic case protects timer controls and 120V to 12V transformer. Surge protected with grounded cord/plug set and easy 12V cable attachment. Photocontrol triggers "time on", eliminating seasonal adjustment. UL and cETL certified. 56w capacity.	4.0 lbs
CABLE			
CB-75	Black	Low voltage #14 cable runs from LVT56 transformer down path of lighting. UV protected, burial is not required, hide with mulch if desired. Perfect fit with fixture connectors for easy installation (150' is the max. run distance from transformer location to assure best fixture operation).	4.0 lbs
CB-150	Black		6.0 lbs

NOTE: All fixtures are complete with LED light engine, 4' minimum fixture cable and "Smart Connect" tool-free connector. Path lights and floods also include ground stake and a deck mount adapter for flat surfaces. When you purchase Lightscaper®, you get it all!



HUBBELL
Outdoor Lighting

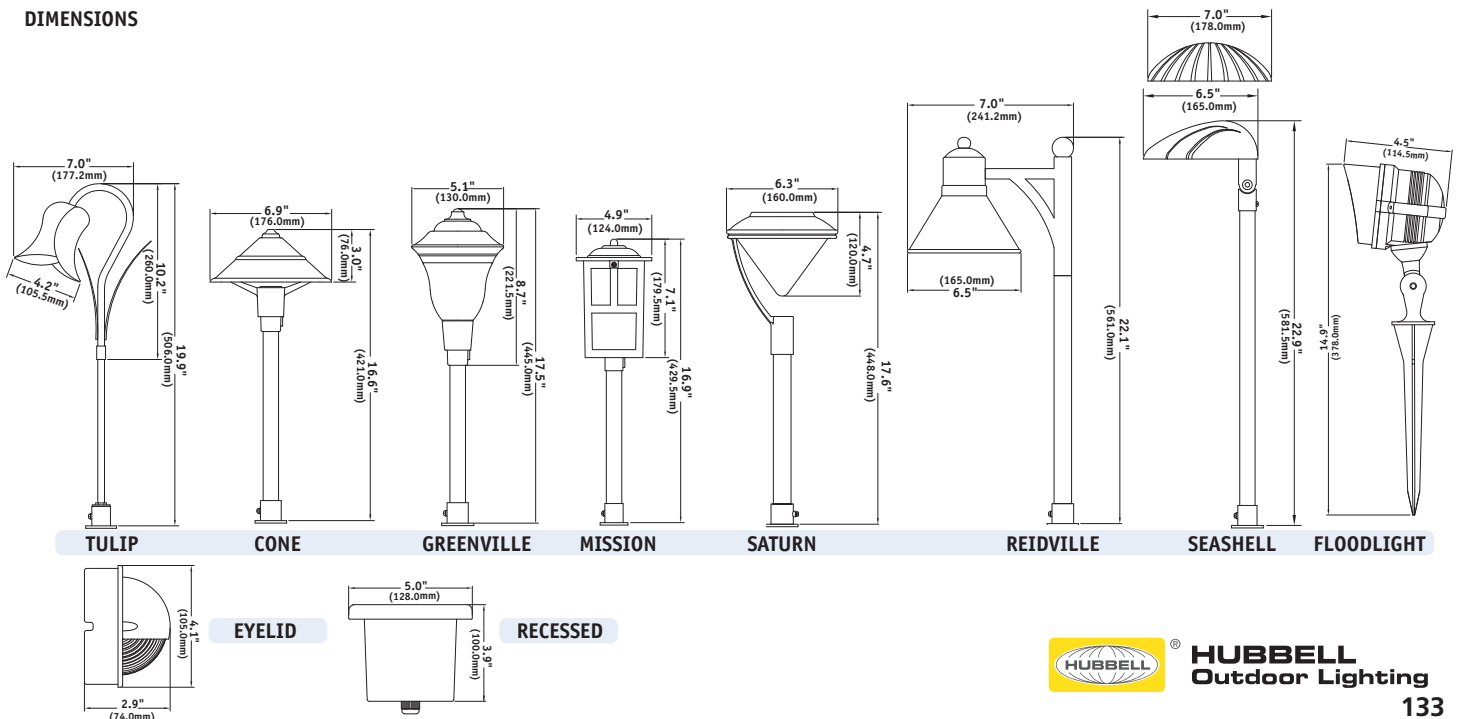
Lightscaper® Fixtures

12V LED

LANDSCAPE



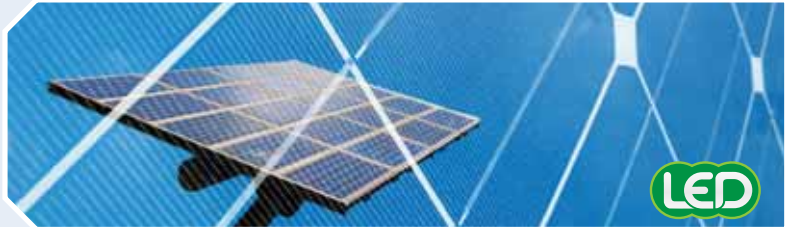
DIMENSIONS



SOLAR LIGHTING



Solar power is an abundant source of energy that can be converted directly into electricity using photovoltaics (PV). The energy of the sun (solar radiation) is captured by solar panels, an array of solar cells. With the advancements in solar technology coupled with the improvements in solid-state lighting, commercial and industrial applications can now realize the benefits of solar powered lighting. Hubbell Lighting is committed to providing innovative and sustainable lighting solutions which offset the rise in energy costs and our impact on the environment.



Hubbell Outdoor and Spaulding Lighting offer sustainable solar powered lighting solutions for area/site, roadway, floodlighting, pathway and wall ceiling applications using the most popular luminaires. The available products include: Roadway LED, Cimarron area/site LED, Laramie LFS flood LED, Eurolux® LED, Laredo LED wallpack and Tempe LED bollards. These solar powered lighting solutions offer an environmentally friendly “clean energy” solution to lighting with the potential benefits of receiving special incentives for renewable projects.

SOLAR POWERED LIGHTING FEATURES AND BENEFITS

- * Solar powered lighting offers an environmentally friendly solution to lighting
- * Security, navigation and identification lighting for areas where grid tied power may be inaccessible, unreliable or too costly
- * No trenching
- * No wires
- * No electric bills
- * Funding may exist in certain areas for renewable projects
- * Solar powered lighting system can be portable



THE SYSTEM – INTEGRATED SOLAR ELECTRIC POWER ASSEMBLIES



Energy-efficient solid state lighting fixture for variety of applications



Solar panel with self-contained electrical power assemblies – 5 to 340w



Round Straight Steel (RSS) and Round Straight Aluminum (RSA) construction poles available



Complete solar lighting solution with instant sustainable off-grid power source

Hubbell Lighting is pleased to partner with Solar Electric Power Company (SEPCO) to provide the most energy efficient and sustainable solar lighting solutions in the market.

Contact your Hubbell Lighting representative for details or visit www.hubbelloutdoor.com



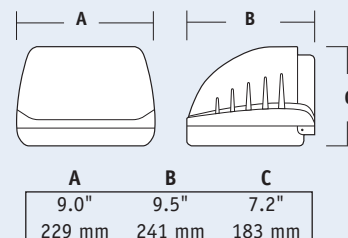
HUBBELL
Outdoor Lighting

- The LCC solar unit is used with Hubbell Lighting solar lighting package
- Decorative die-cast aluminum housing and door; Rugged design protects internal components and provides excellent thermal management for long life
- Flat, tempered, impact-resistant glass lens protects optics
- Powder paint finishes provide lasting appearance and are available in standard finishes: Dark Bronze, Black, White, Gray and Platinum
- Two-point lag mount securely holds housing to surface; Mounting template is provided
- 12 LED system delivers 820 lumens at 12.8w for 64 lumens per watt efficiency, 5000K CCT, 12V DC system
- Designed for mounting over standard recessed junction boxes or for wiring with surface conduit; 1/2" hubs with plugs provided on top and sides for versatile access
- IDA compliant entry or perimeter lighting
- Six to twelve foot typical mounting heights
- Suitable for use in wet locations



ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

LCC	-	12LD	-	5K	□
SERIES		NUMBER OF LEDS/SOURCE/VOLTAGE		CCT	FINISH
LCC Laredo Compact Zero upright		12LD 12 LEDs, 12V DC		5K 5000K nominal	1 Bronze 2 Black 3 Gray 4 White 5 Platinum
Catalog Number		Description			
LCC-SPC		Polycarbonate shield			



BRLD

Euroluxe® Solar

- The Euroluxe® solar luminaire is used with Hubbell Lighting Solar Package; Using Euroluxe's two finishes and accessory trims, various styles can be created for use in both interior or exterior applications such as entry, stairwells, perimeter walls, corridors; Units can be wall or ceiling mounted
- Borosilicate glass lens sealed to housing by silicone gasket and stainless steel philips head screws; Ribbed lens uniformly spreads light for a symmetrical, soft distribution
- Die-cast aluminum housing and face trims
- Dark bronze and White finishes are offered standard
- Suitable for use in wet locations
- 6 LEDs, 15w, 12V DC, 834 lumens, 5000K, 61.5 lumens per watt efficiency
- Units are designed to operate from -35° C to 40° C ambient
- Two point lag or hickey mount to recessed junction box.



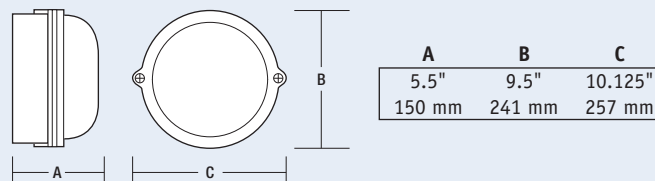
ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

Catalog Number	Shape	Finish	Wattage	Weight lbs. (kg)
BRLD-01	Round	Bronze	15w	6.0 (2.7)
BRLD-04	Round	White	15w	6.0 (2.7)

ACCESSORIES - Order Separately

Catalog Number	Description
BR-GX ¹	Cast aluminum guard for round fixture
BR-SX ¹	Cast aluminum shield for round fixture

¹ Finish must be specified, bronze and white are stock, substitute X for: 1-bronze, 4-white



LFS

Compact Solar Flood

SOLAR



- The compact LED solar flood is used with Hubbell Lighting solar package; Laramie LFS is suited for illuminating signs, facades, small area illumination, flag poles and landscape accent
- Decorative die-cast aluminum construction
- Silicone gasketing for positive seal, 1/2" threaded knuckle for use with accessories or mounting by others
- Five standard polyester powder protective finishes plus custom color capability are offered
- Narrow beam (NEMA 1x1) provides a spot for flags, columns and accent lighting
- Medium beam (NEMA 4x4) delivers mid-range beam punch
- Wide beam (NEMA 6x6) with uniform distribution – great for close setbacks
- LED units offer long life with little maintenance and low energy consumption; 12 LEDs, 15w, 12VDC, 936-954 lumens, 5000K CCT, 64 lumens per watt efficiency
- Suitable for use in wet locations

ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

SERIES	#OFLEDS/SOURCE/VOLTAGE/CCT/BEAM	FINISH
LFS Laramie Flood Small	12LD-5K-W 15w 12V DC, 6x6 12LD-5K-M 15w 12V DC, 4x4 12LD-5K-N 15w 12V DC, 1x1	BZ Bronze BL Black GR Gray WH White PS Platinum

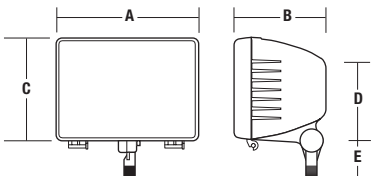
ACCESSORIES - Order Separately, Field Installed

Catalog Number	Description
1031-3	Portable spike with 1/2" top hub and 6ft cord set, platinum/gray finish
LFS-GS	Glare shield, black
LFP-JB-BZ	Round pole-side junction box with hardware, 1/2" cover and bottom hub, bronze
LFS-SPC	Polycarbonate shield
MIC-TB	Half yoke wiring box, bronze
NM-BC	Non-metallic box and cover burial box with cable connectors
S-302-M51	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, bronze
S-302-M52	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, white
S-302	2" pipe (2 3/8" O.D.) slip-fitter with 1/2" top hub for LFS/LFP, platinum/gray
S329B	Wet location surface box with cover, (4) side and (1) cover 1/2" hub, nat. alum.

REPLACEMENT PARTS

Catalog Number	Description
93004823	Replacement lens
207-5011-0264	Bronze knuckle

DIMENSIONS



	A	B	C	D	E
LFS	10.25"	6.5"	8"	4"	2.5"
	260 mm	165 mm	203 mm	102 mm	63.5

ROADWAY DC RMCT

Solar LED Roadway

- The LED RM unit is used with Hubbell Lighting's solar lighting package; This DC unit is powered by the solar panel and battery that is custom designed for your location; Typical applications include roadway, parking, area and perimeter lighting
- Units are available in 35w, 50w, and 70w configurations; 12V DC input current
- Die-cast aluminum housing and doors provide light weight, yet durable protection, A driver door allows easy access for both mounting and wiring
- A 30LED light engine provides standard IES distributions of Type II, III, IV, V square with up to 86 LPW efficiency
- Each LED has individual optical lens so every source contributes to the same IES pattern
- IP-65 LED light engine assembly and driver(s)
- Lektrocote® finish with 2 standard and custom colors available
- Fixture feature a twin clamp mounting to either 2 3/8" OD or 1 5/8" OD pipe; A center fulcrum allows leveling of +or- 5 degrees by clamp adjustment
- A 'bird shield' is included on all fixtures; Fixtures are capable of 3G installations.
- IDA fixture seal of approval
- Suitable for use in wet locations

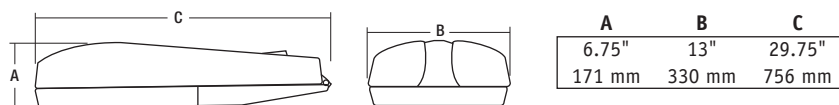


SOLAR

ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

SERIES	NUMBER OF LEDS	VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	FINISH
RMCT Zero uplight medium solar Roadway	30L 30 LEDs	D 12V DC	4K 4200K nominal 5K 5100K nominal	2 Type II 3 Type III 4 Type IV 5 Type V	035 350 mA (35w) 052 525 mA (50w) 070 700 mA (71w)	M51 Bronze M53 Gray

DIMENSIONS



HUBBELL
Outdoor Lighting

CR1D

Cimarron Solar

FLOODLIGHTING

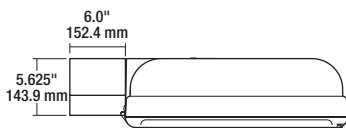
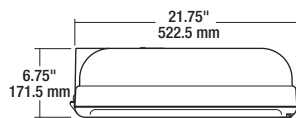
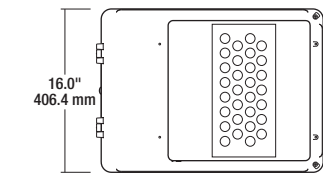


- The LED CR1 unit is used with Hubbell Lighting's solar lighting package; This DC unit is powered by the solar panel and battery that is custom designed for your location; Typical applications include roadway, parking, area and perimeter lighting
- Die-cast aluminum housing provides light weight, yet durable protection; Access to driver from two screws and hinged door for both mounting and wiring
- A 30LED light engine provides standard IES distributions of Type II, III, IV, V square with up to 86 LPW efficiency
- Each LED has individual optical lens so every source contributes to the same IES pattern
- Units are available in 35w, 50w, and 70w configurations; 12V DC input current
- CR1 fixtures feature straight arm mounting or optional mast arm fitter to 2 3/8" OD pipe
- IP-65 LED light engine assembly and driver(s)
- Units are designed to operate from -35° C to 40° C ambient
- Suitable for use in wet locations

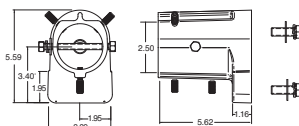
ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

CR1D	-		-	30LD	-		-		-	
SERIES	MOUNTING	NUMBER OF LEDS/VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	FINISH				
CR1D Solar Cimarron	A Arm mount (6" straight rigid arm included & acceptable for 90° configurations) MAF Mast arm fitter for 2 3/8" OD horizontal arm	30LD 30 LEDs, 12V DC	4K 4200K nominal 5K 5100K nominal	2 Type II 3 Type III 4 Type IV 5 Type V	035 350 mA (35w) 052 525 mA (50w) 070 700 mA (71w)	DB Dark Bronze GR Gray				

DIMENSIONS



STRAIGHT ARM

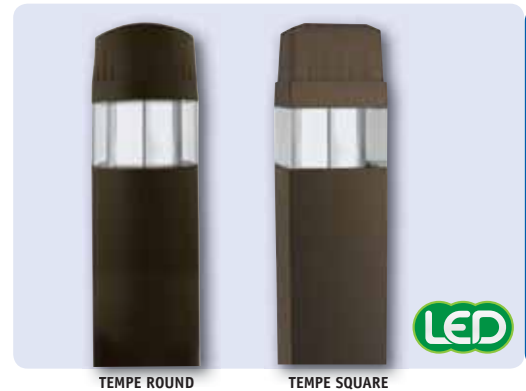


MAST ARM FITTER OPTION

TMR/TMS

Solar LED Bollards

- The Tempe square and round bollards are used with Hubbell Lighting's solar lighting package; These DC units are designed to illuminate walkways and courtyards
- Extruded aluminum square or round housing, with tamper resistant hardware; Single screw access for top relamping; Decorative Southwestseries cast top
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service
- Units are available in 31w and 62w configurations, 12V DC input current
- 12 LED light engine, 31w, asymmetric distribution, 3500K or 5000K color temperature
- 24 LED light engine, 62w, symmetric distribution, 3500K or 5000K
- Sealed one-piece, clear acrylic lens; Specular, anodized aluminum optical systems
- Concealed, galvanized steel anchor base; Four 1/2" x 10" anchor bolts
- Suitable for use in wet locations



TEMPE ROUND

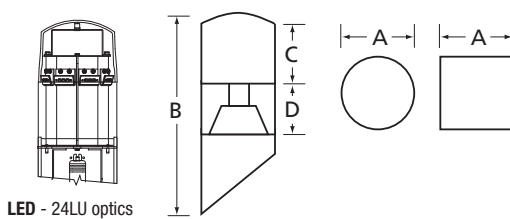
TEMPE SQUARE

FLOODLIGHTING

ORDERING INFORMATION (Must be ordered with Hubbell Lighting solar power assembly, see specification sheets for detailed information)

SERIES	NUMBER OF LEDS/CCT	VOLTAGE	FINISH
TMR Tempe Round	12LU-3K 12 LEDs, 31w, asymmetric distribution, 3500K	D 12V DC	DB Bronze
TMS Tempe Square	12LU-5K 12 LEDs, 31w, asymmetric distribution, 5000K		BL Gray
	24LU-3K 24 LEDs, 62w, symmetric distribution, 3500K		WH White
	24LU-5K 24 LEDs, 62w, symmetric distribution, 5000K		GR Gray
			PS Platinum Silver

DIMENSIONS



LED - 24LU optics

	A	B	C	D	Weight
TMR	7" dia. 178 mm	41 1/2" 1054 mm	5 1/2" 140 mm	4" 102 mm	41 lbs. 18.6 kg
TMS	6 3/4" dia. 171 mm	41 1/2" 1054 mm	5 1/2" 140 mm	4" 102 mm	41 lbs. 18.6 kg



SPAULDING LIGHTING

BRAND PROFILE

- Founded in 1955

Complete offering of outdoor area/site and pedestrian-level luminaires and poles for the commercial and institutional markets including parking areas, automotive dealerships, commercial developments, walkways and decorative roadway applications.

PRODUCT OFFERING

LED architectural area/site, post top, and bollard luminaires designed for the mid-specification and design-build markets, addressing their need for energy-savings, performance, delivery and value.





AREA/SITE LIGHTING

LED DESIGN GUIDE

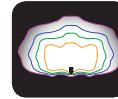
LED Area/site Design Guide pages 144-147



Cimarron CL1S Series pages 148-149



Cimarron CL1 Series pages 150-151



Cimarron ECL1PSE backlight control pages 151

POST TOPS



Peachtree PT Series pages 152



Vandalia VA Series pages 153

BOLLARDS



Tempe TMR/TMS Series pages 154



Fresno FN1/FN2 Series pages 155



LED Retrofit Kit BOLR/BOLS Series pages 156

MOUNTING ACCESSORIES & POLES



Cimarron Accessories CL1/CL1S Series pages 157



Poles FN1/FN2 Series pages 158-159

LED Design Guide

LED Optical Performance for Area/Site Lighting

LIGHTING SOLUTIONS UTILIZING LED SYSTEMS

Lighting decisions for today's commercial, retail and industrial property owners are rapidly changing. Today's lighting environment often requires businesses to look for innovative ways to dramatically reduce their overall energy costs, greenhouse gas emissions and overall operating risk. With the advancement of technology and rapidly changing criteria, business owners are often tasked with making tough decisions regarding the use of traditional light sources vs. an LED alternative solution.

Spaulding Lighting understands the importance of providing customers with the proper analysis and key data required to assist in their decision making process.

THE INNOVATIVE OPTICS OF THE SPAULDING CIMARRON LED SERIES LUMINAIRES:

- Utilize precise LED optical design and directional lens placement to maximize light delivery where it is needed
- Enable fewer fixtures to be used to deliver comparable light levels for significant energy savings
- Provide one solution to address the need to conserve natural resources without compromising safety and security
- Redistribute the light away from unwanted areas and place it where it can be better utilized
- Employ individual optics designed for maximum performance with very little wasted energy
- Offer enhanced uniformity for greater visibility

BEFORE



AFTER



LED Design Guide

LED Optical Performance for Area/Site Lighting

LED ADVANCEMENTS AND OPTICAL PERFORMANCE

With the rapid advancements of LED technology, visual acuity and better uniformity can be achieved while using less energy. Spaulding's Cimarron LED fixtures integrate the latest LED advancements and deliver optical performance that can perform as well as, and in most cases, better than historical HID fixtures with higher lumen packages.

Advancements in solid state technology have brought about the use of light sources such as LED that provide more energy efficiency and long life, and help protect the environment.

The Cimarron LED series delivers the following advantages:

- Delivers wider spacing and increased forward throw
- Improves overall uniformity
- Uses up to 50% less energy of an equivalent HID fixture at full brightness
- Bi-level control and continuous dimming options offer additional energy-savings
- Potential to reduce pole count
- Enables mounting heights from 15 ft. to over 35 ft.
- Performs virtually maintenance-free (L90 at 60,000 hours, projected per IESNA TM-21-11)
- Saves energy and reduces annual maintenance costs

FOR OUTDOOR PARKING APPLICATIONS, CONSIDERATION SHOULD BE MADE FOR THE FOLLOWING:

- Illuminance - minimum and uniformity requirements
- Energy savings
- Luminaire layout
- Maintenance
- Optical control
- Performance
- Environmental friendliness
- Total cost of ownership

CBEA Lighting Guidelines (Commercial Building Energy Alliance)	Minimum Horizontal	Uniformity
	Illuminance	Maximum: Minimum
Lighting Zone 0 Wilderness areas, parks and preserves, and undeveloped rural areas	N/A	N/A
Lighting Zone 1 Rural and low density residential areas	N/A	N/A
Lighting Zone 2 Light commercial business districts and high density or mixed use residential districts	0.50 fc	10:1
Lighting Zone 3 Large cities' business districts	0.75 fc	10:1
Lighting Zone 4 High intensity business or industrial zone districts	1.00 fc	10:1

The table above is taken from Commercial Building Energy Alliance Site Lighting Performance Specification for Exterior Parking Lots.

LIGHTING CONTROLS

The wiHUBB® control systems from HBA (Hubbell Building Automation) allow programmable control of site/parking luminaires for maximum energy savings. In-Fixture Modules feature full-range dimming capabilities into LED luminaires. Additionally, wiHUBB® Smart Pack and Preset Switch can be included for manual override control further maximizing savings (see Hubbell Building Automation pages 64 for more information)



WIHUBB® CONTROLS FEATURES AND BENEFITS

- Energy savings
- Programmable control of site luminaires wiHUBB® devices communicate utilizing the most advanced radio RF technology
- Fixture scheduling for On/Off and dimmed levels of illumination
- Lower installation costs, no additional wiring
- No rewiring or trenching on retrofit applications
- Factory installed wireless modules
- Expandable/scalable system grows as your facility and lighting needs grow



LED Design Guide

LED Optical Performance for Area/Site Lighting

APPLICATION BASED SOLUTIONS

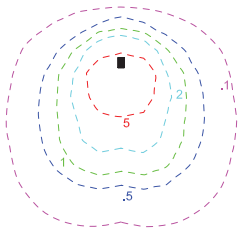
Examples show a photometric layout designed to the Commercial Building Energy Alliances (CBEA) Lighting Zone 4 minimum horizontal luminance of 1 foot candle utilizing LED. **The advantages and cost savings with LED are summarized below.**

It is also important to consider current IESNA recommended RP20 guidelines for designing fixed lighting for parking facilities. IESNA recommendations only apply to the design of new lighting systems for parking facilities. The lighting recommendations given here are for the reasonably safe movement of vehicular and pedestrian traffic in parking facilities. These values should be considered a minimum guideline, which are subject to changes based on sound engineering judgment. Considerations on illuminance requirements of a parking facility are affected by layout, opera-

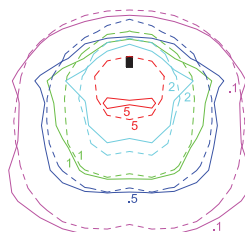
tion, and vehicular traffic safety issues, plus the visibility and security needs of pedestrians walking to or from their vehicles. More commonly, parking lots are illuminated to higher levels for safety and security reasons.

IESNA RP 20 recommended maintained illuminance values for parking lots	Basic	Enhanced
Minimum horizontal illuminance	0.2 fc	0.5 fc
Uniformity ratio, (max/min)	20:1	15:1

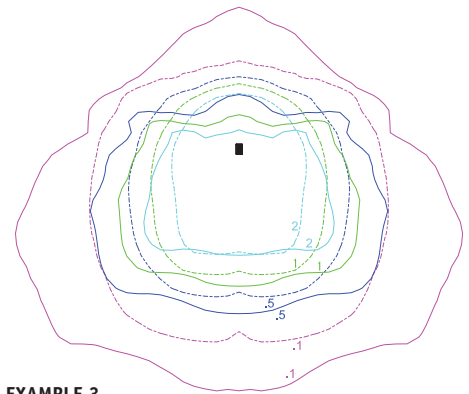
TECHNOLOGY COMPARISON



EXAMPLE 1



EXAMPLE 2



EXAMPLE 3

--- HYDROFORMED

Traditional HID

The large area of excessive lumens in the center of the diagram above provides a visual representation of wasted energy.

HID shoeboxes typically use a lamp in the horizontal position, emitting most of the light straight down at 0 degrees. The excessive lumens gather directly underneath the fixture resulting in:

- Bright, hot spot
- Increase in overall average footcandle levels for poor uniformity

--- HYDROFORMED ——— SEGMENTED

HID Segmented Reflectors

The diagram above illustrates how segmented reflectors redirect light where it is needed in comparison to hydroformed optics.

The use of segmented reflectors:

- Reduces the hot spot
- Enhances overall visual acuity
- Improves lumen distribution and uniformity

Depending on certain criteria, it is even possible to:

- Reduce the overall fixture count
- Save money during initial installation
- Consume less energy throughout the year

--- HYDROFORMED ——— CIMARRON LED

LED – Cimarron

The diagram above illustrates the performance of the Type IV Cimarron LED. Note the absence of excessive lumens directly under the fixture.

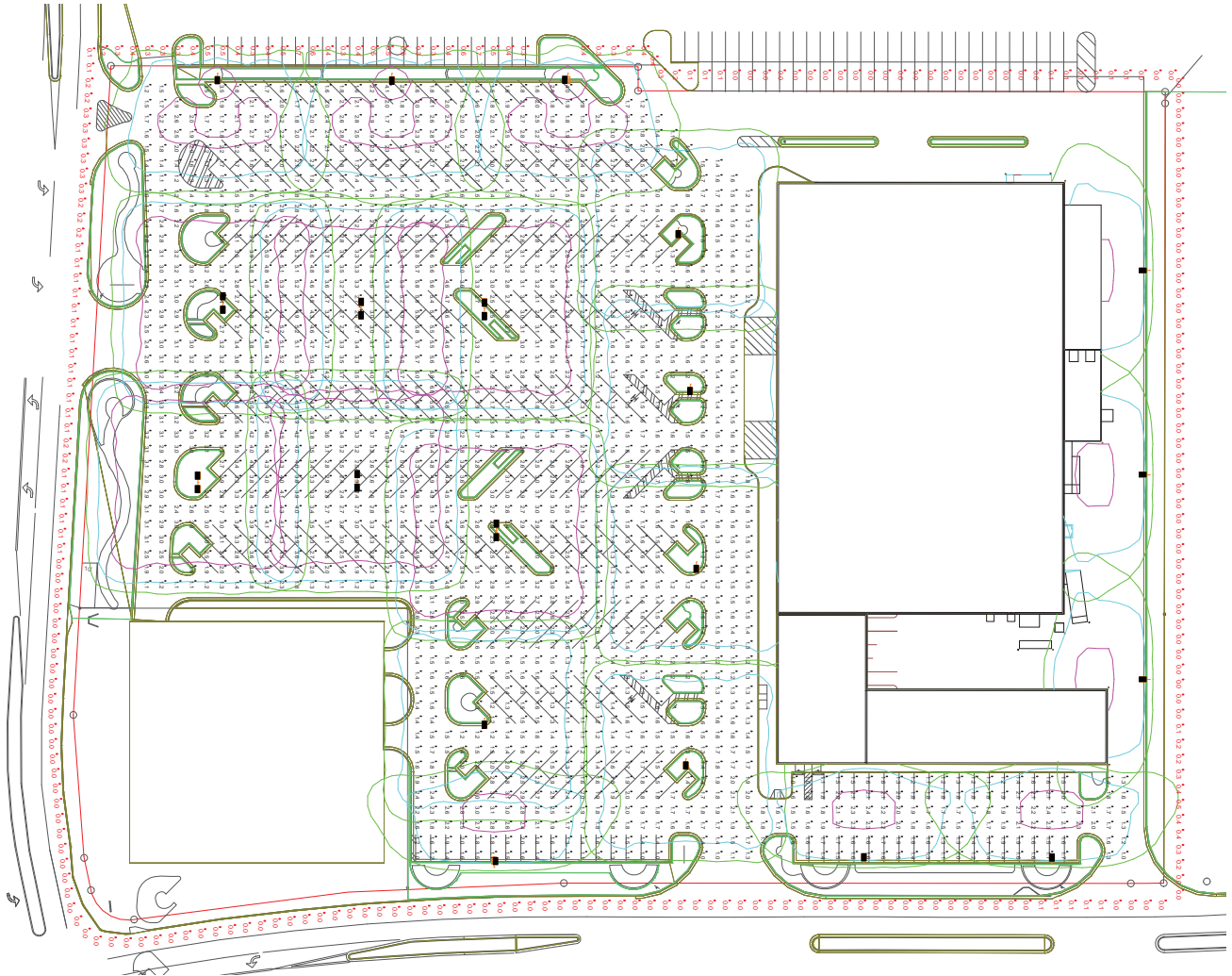
Each LED optical configuration is designed for maximum performance. The advantages of Cimarron LED include:

- Energy-efficiency
- Better uniformity
- Reduced pole and fixture count
- Long life
- Money savings during installation
- Virtually maintenance free (no re-lamping)

LED Design Guide

Large Parking Area Layout with Cimarron LED

LUMINAIRES: 90 LEDS, MOUNTED AT 34 FT.



ILLUMINATION DATA

Maximum: 7.1 fc

Minimum: 1.0 fc

Average: 2.39 fc

Max/Min: 7.1

Avg/Min: 2.39

Lamp Lumen Depreciation	.95
Luminaire Dirt Depreciation	.95
Light Loss Factor	.90

Cimarron LED cost analysis example

Quantity of luminaires/poles	26/20
Total installed cost*	\$93,450
Input watts per fixture	336
Annual hrs per fixture @ 11 hrs/day	4015
Total site annual KWH	35017
Annual energy costs @ \$.10 per KWH	\$3,407

- Annual energy savings of 72% plus reduced maintenance offset the initial investment
- Higher KWH rate will increase cost savings and accelerate payback
- The implementation of controls provides additional cost and energy savings

Note: Large parking area layout designed with 5100K CCT Cimarron LED fixtures

*Estimated fixture, pole, base, trenching and labor; Annual maintenance costs not included

For complete LED area/site information visit: www.spauldinglighting.com

**SPAULDING
LIGHTING**

CL1S

Cimarron LED Pedestrian Scale Series

RECTANGULAR LUMINAIRES



FEATURES

- Stylish vertically finned die-cast solid top housing and lower heat sink optimize heat dissipation
- Decorative integral arm houses two stage hinge mechanism
- Features quick-mount plate and quick-connect wiring for easy installation
- Drivers have greater than 90% power factor and less than 20% THD
- Optional 0-10VDC continuous dimming to 10%
- Automatic thermal self protection
- Surge protection standard
- -30 deg C to 40 deg C ambient operation
- Lektrocote TGIC polyester powder coat finish
- Stainless steel bezel mechanically compresses gasketed light engine for IP66 rating
- Nominal 3000K, 80 CRI; 4200K, 70 CRI; 5100K, 67 CRI
- Choice of 54 high brightness LED configurations with individual acrylic lenses aimed to produce IES type II, III, IV and V distributions
 - Backlight control option reduces spill light behind pole by 85%, doesn't change fixture appearance or EPA
- Features exclusive wiHUBB technology
 - Wireless system for On/Off and 0-10VDC continuous dimming control to 10% light output
 - Programmable autonomous operation
- DesignLights Consortium qualified
- Listed to UL1598 and CSA C22.2#250.0 24 for wet locations
- New turtle friendly Amber available
- IES Progress Award Winner – 2013

ORDERING INFORMATION

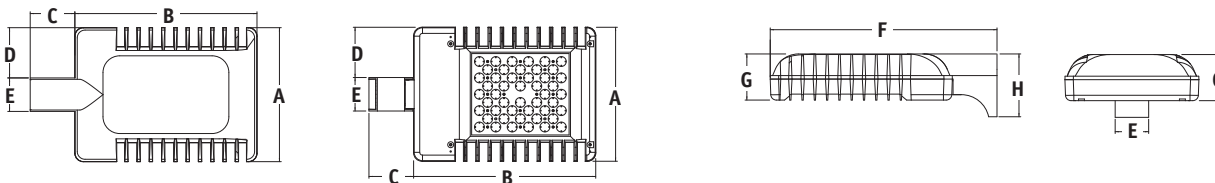
CL1S - A - [] - [] - [] - [] - [] - [] - []

SERIES	NO. OF LEDS	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1S Cimarron LED Pedestrian Scale	16L 16 High brightness LEDs 32L 32 High brightness LEDs 48L 48 High brightness LEDs	U ³ Universal 120V-277V, 50/60 Hz 1 ¹ 120V 2 ¹ 208V 3 ¹ 240V 4 ¹ 277V 5 480V, 60 Hz F 347V, 60 Hz E ⁴ 220V, 50 Hz	3K 3000K, 80 CRI 4K 4200K, 70 CRI 5K 5100K, 67 CRI AM ^{6,9} Amber (590 μm available for "Turtle Friendly"/observatory applications (consult factory))	Leave blank for 700mA (standard) 035 350mA Amber (590 μm available for "Turtle Friendly"/observatory applications (consult factory))	BC ⁵ Backlight control CD ^{2,7} Continuous dimming F(X) ^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) RPA3 3" Round pole adapter RPA4 4" Round pole adapter TB Terminal block WB Wall bracket WHB White LED bezel PR(X) ² NEMA Photocell receptacle (replace X with voltage: U = 120-277, 5 = 480, 6 = 347) WIH ^{2,8} In-fixture wireless control module
MOUNTING					
A 4" straight arm attached to housing complete with quick-mount plate					
DISTRIBUTION					
2 Type II 3 Type III 4 Type IV 5S Type V Short 5M Type V Medium 5W Type V Wide 2L Type II rotated left 3L Type II rotated left 4L Type IV rotated left 2R Type II rotated right 3R Type III rotated right 4R Type IV rotated right					
COLOR					
DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color					
MOTION CONTROL OPTIONS					
SCO No light output when no motion detected / On/Off control SCP High/low control – user programmable settings of 70, 60, 50, 20% of power; Factory default is 50%					

ACCESSORIES SEE PAGE: 157










- Notes: 1 - Select only when using voltage specific options F, WIH
2 - WIH cannot be combined CD or PR(X) options
3 - Fuse option not available with U voltage
4 - Select F3 fusing option for 220V
5 - Not recommended for Type 5S, 5M or 5W
6 - 350mA required with amber CCT
7 - Dimming leads accessible for connection to third party dimming systems
8 - Available with 120V, 277V, 347V or 480V
9 - Amber option only available in 48L configuration

DIMENSIONS



	A	B	C	D	E	F	G	H	Weight
CL1S	12"	16.312"	4"	4.5"	3"	20.312"	4.13"	4.13"	19 lbs.
	305 mm	414 mm	102 mm	114 mm	76 mm	515 mm	105 mm	105 mm	8.62 kg

PERFORMANCE INFORMATION

Catalog Number	Equivalency		Delivered Lumens						System Watts		Lumens Per Watt	CCT	Drivers/Current
	MH	HPS	Type 2	Type 3	Type 4	Type 5M	Type 5S	Type 5W	120V-277V	347V-480V			
 CL1S-16L-3K	70w	50w	2,438	2,456	2,486	2,737	2,761	2,725	39	39	71	3000K	1@700mA
 CL1S-32L-3K	100w	70w	4,788	4,823	4,881	5,375	5,422	4,918	76	76	71	3000K	2@700mA
 CL1S-48L-3K	150w	100w	7,236	7,288	7,377	8,123	8,193	9,662	111	111	72	3000K	3@700mA
 CL1S-16L-4K	100w	70w	3,077	3,099	3,136	3,454	3,484	3,160	39	39	89	4200K	1@700mA
 CL1S-32L-4K	150w	100w	6,042	6,085	6,159	6,782	6,841	6,206	76	76	90	4200K	2@700mA
 CL1S-48L-4K	175w	150w	9,131	9,593	9,309	10,250	10,339	9,379	111	111	93	4200K	3@700mA
 CL1S-16L-5K	100w	70w	3,053	3,075	3,113	3,731	3,457	3,166	39	39	96	5100K	1@700mA
 CL1S-32L-5K	150w	100w	6,527	6,574	6,654	7,327	7,391	6,704	76	76	96	5100K	2@700mA
 CL1S-48L-5K	175w	150w	9,864	9,935	10,056	11,073	11,169	10,132	111	111	101	5100K	3@700mA

QUICK MOUNT INSTALLATION

The Cimarron CL1S installation features:

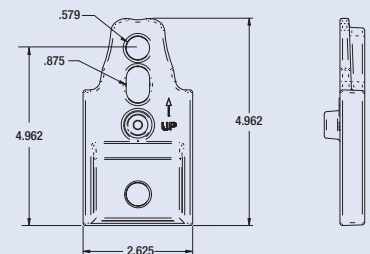
- 1 Quick-mount plate attaches to pole with two 1/2" bolts
- 2 4 - slot hex 1/4" captured screws secure luminaire door to top
- 3 Safety-latch holds luminaire door to prevent "free swing" door
- 4 Two stage hinge mechanism built into integral arm
- 5 Quick-connect wiring for a simplified, hassle-free installation



For installation video scan this code or visit link below:



<http://www.youtube.com/user/hubbelloutdoorbrands>



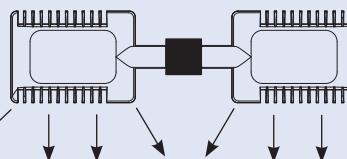
QUICK-MOUNT PLATE



FIXTURE MOUNTING – FACTORY ROTATED OPTICS

For proper light distribution and performance, rotated optics must be mounted as referenced in illustration. Consult instruction sheet included when mounting.

- 2L Type II rotated 90° left
- 3L Type III rotated 90° left
- 4L Type IV rotated 90° left



- 2R Type II rotated 90° right
- 3R Type III rotated 90° right
- 4R Type IV rotated 90° right

CL1 LED

Cimarron LED Series

RECTANGULAR LUMINAIRES



FEATURES

- Stylish vertically finned die-cast solid top housing and lower heat sink optimize heat dissipation;
- Isolated electrical compartment with integral heat sinking for cooler operation and longer driver life
- Drivers have greater than 90% power factor and less than 20% THD
- Optional continuous dimming to 10% or dual circuitry available
- Automatic thermal self protection
- Surge protection standard
- 60,000 hours life (L90 @ 40°C)*
- Shipped with upswept or straight arm for uniform look and ease of installation
- -30 deg C to 40 deg C ambient operation
- Lektrocote TGIC polyester powder coat finish
- 3000K, 80 CRI; 4200K, 70 CRI; 5100K, 67 CRI

- New stainless steel bezel (Dec 2013)
- Choice of 3 high brightness LED configurations with individual acrylic lenses aimed to produce IES type II, III, IV and V distributions
 - Backlight control option reduces spill light behind pole by 85%, doesn't change fixture appearance or EPA
- Features exclusive wiHUBB technology
 - Wireless system for On/Off and 0-10VDC continuous dimming control to 10% light output
 - Programmable autonomous operation
- DesignLights Consortium qualified
- IP65
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
 - Increased lumen output with use of 1050mA driver (90L only)
- New turtle friendly Amber available

ORDERING INFORMATION



SERIES	NO. OF LEDs	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1 Cimarron LED	90L 90 High brightness LEDs 60L 60 High brightness LEDs 30L 30 High brightness LEDs	U³ Universal 120V-277V, 50/60 Hz 1⁷ 120V 2⁷ 208V 3⁷ 240V 4⁷ 277V 5 480V, 60 Hz F 347V, 60 Hz E⁴ 220V, 50 Hz	3K 3000K, 80CRI 4K 4200K, 70CRI 5K 5100K, 67CRI AM Amber (590 μm available for "Turtle Friendly" applications (consult factory))	Leave blank for 700mA (standard) 035 350mA Amber (590 μm available for "Turtle Friendly"/observatory applications (consult factory)) 105 1050mA (use with 90L only for higher lumen output)	BC⁶ Backlight control BL^{1,2,5} Bi-level control CD² Continuous dimming WB Wall bracket RPA3 3" Round pole adapter RPA4 4" Round pole adapter RPA5 5" Round pole adapter RPA6 6" Round pole adapter F(X)^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) SSB⁹ Stainless steel LED bezel VG Vandal guard PR(X)⁵ NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6=347) WIH^{2,5,7} In-fixture wireless control module (120, 277, 347 & 480V)

MOUNTING

- A** Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations)
- AD** Decorative arm mount const. (6" decorative upswept arm incl. & acceptable for 90° configurations)
- MAF** Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm

- Notes: 1 For BL option 90L and 60L; N/A 347V & 480V
 2 BL, CD and or WIH cannot be combined
 3 Fuse option not available with universal voltage
 4 Select F3 fusing option for 220V
 5 Photocell receptacle not available with BL or WIH options
 6 Recommended for Type II, III or Type IV distributions only
 7 Replace XX with color designation (see below)
 8 Direct pole mount only, not compatible with tenon adapters
 9 Bezel changed to stainless steel as standard Dec. 1 2013

DISTRIBUTION

- 2** Type II
- 3** Type III
- 4** Type IV
- 5S** Type V Short
- 5M** Type V Medium
- 5W** Type V Wide

COLOR

- DB** Dark Bronze
- BL** Black
- WH** White
- GR** Gray
- PS** Platinum Silver
- RD** Red (premium color)
- FG** Forest Green (premium color)
- CC** Custom Color

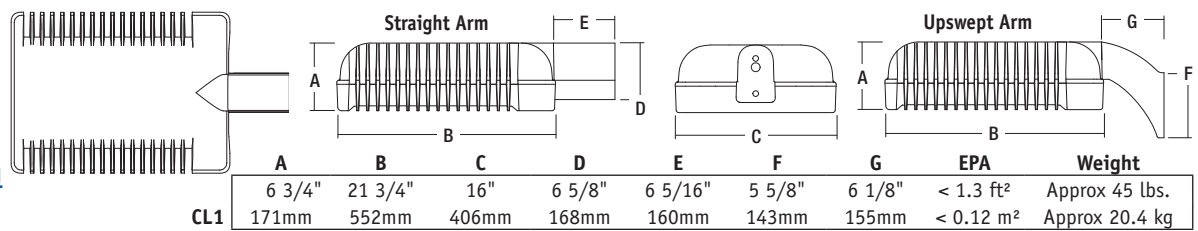
ENERGY DATA	
Power Factor	>.9
Total Harmonic Distortion	<20%

ACCESSORIES SEE PAGE: 157
 *Projected per IESNA TM-21-11
 NOTE: All poles to be drilled with #2 pattern

MOTION CONTROL OPTIONS

- SCO** No light output when no motion detected / On/Off control
- SCP** High/low control – user programmable settings of 70, 60, 50, 20% of power; Factory default is 50%

DIMENSIONS



CL1 LED

Cimarron LED Series

RECTANGULAR LUMINAIRES

PERFORMANCE INFORMATION

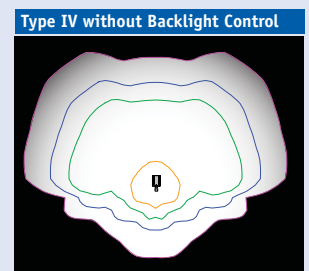
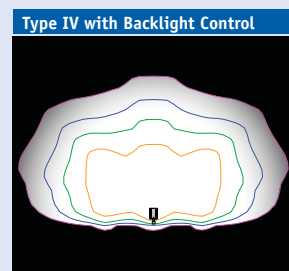
Series Number	Equivalency		Delivered Lumens						System Watts		Lumens Per Watt	CCT	Drivers/ Current
	MH	HPS	Type 2	Type 3	Type 4	Type 5M	Type 5S	Type 5W	120V-277V	347V-480V			
 CL1-30L-3K	175w	150w	4,606	4,668	4,686	4,858	4,902	4,601	70	87	70	3000K	2@700mA
 CL1-60L-3K	250w	150w	9,013	9,175	9,216	9,409	9,461	8,844	140	157	68	3000K	4@700mA
 CL1-90L-3K	320w	200w	13,360	13,601	13,575	13,923	14,004	13,902	210	227	66	3000K	6@700mA
 CL1-90L-3K-105	400w	250w	17,645	17,612	17,469	17,950	18,271	17,330	336	363	54	3000K	6@1050mA
 CL1-30L-4K	250w	250w	6,089	6,109	6,104	6,417	6,439	6,046	70	87	92	4200K	2@700mA
 CL1-60L-4K	320w	400w	11,583	11,468	12,036	12,038	12,581	11,807	140	157	95	4200K	4@700mA
 CL1-90L-4K	400w	400w	17,143	16,973	17,648	18,521	20,220	17,394	210	227	98	4200K	6@700mA
 CL1-90L-4K-105	750w	750w	23,896	23,912	24,199	24,583	25,357	23,128	336	363	80	4200K	6@1050mA
 CL1-30L-5K	250w	250w	6,384	6,164	6,641	7,108	6,999	6,619	70	87	101	5100K	2@700mA
 CL1-60L-5K	320w	400w	13,300	12,842	13,125	13,185	13,675	12,954	140	157	95	5100K	4@700mA
 CL1-90L-5K	400w	400w	19,684	19,006	19,202	20,592	19,610	18,973	210	227	98	5100K	6@700mA
 CL1-90L-5K-105	750w	750w	26,974	25,351	26,548	25,793	27,445	25,195	336	363	80	5100K	6@1050mA

ECL1PSE

Backlight Control

For those LED projects that require minimal light behind the pole, Spaulding Lighting has a solution – ECL1PSE Backlight Control. This unique system, designed specifically for LED lighting, will virtually eliminate the light spill behind the pole and is available on Cimarron LED CL1 and CL1S models. (See CL1 and CL1S page(s) for ordering information)

- Reduce light 85% behind the pole – industry leading performance
- No change to fixture appearance or EPA
- Achieves impressive Backlight-Uplight-Glare (BUG) rating
- Neighbor-friendly lighting
- 2012 IES Progress Report Award winner



ORDERING INFORMATION – SEE CIMMARRON CL1 AND CL1S ORDERING OPTIONS



OPTIONS

BC Backlight control

**SPAULDING
LIGHTING**

PT

Peachtree

POST TOPS



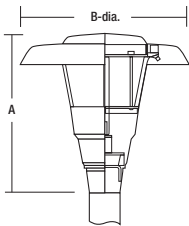
- Spun aluminum hood, hinges up for relamping
- Cast aluminum base and slipfitter with steel rods to secure lens and hood
- Borosilicate glass refractors provide Type III or V round light patterns; Polycarbonate refractor provides Type V round light pattern
- Cast aluminum fitters for 3" OD pole top or 2.375" OD tenon; secured by set screws in fitter
- 28 high brightness LEDs at 700mA delivers symmetric distribution at 64w, providing up to 4010 delivered lumens; 4200K and 5100K color temperatures
- 50,000 hour LED rating L70 at 25°C
- Universal voltage driver (120-277V) with +/- 10% tolerance, starting temperature rate -20°F
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service
- Listed to UL1598 for use in wet locations



ORDERING INFORMATION

SERIES	MOUNT	SOURCE/WATTAGE/CCT	LENS	COLOR	OPTIONS
PT Peachtree	2F Post-top mount (2 3/8" tenon) F45 Internal fitter (4 1/2" round pole)	28-LU-4K 28 LEDs, 64w symmetric distribution, 120-277V, 50/60Hz, 4200K, 70 CRI 28-LU-5K 28 LEDs, 64w symmetric distribution, 120-277V, 50/60Hz, 5100K, 67 CRI	VP Type 5 polycarbonate refractor VG Type 5 glass refractor (standard) 3G Type 3 glass refractor	DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color (consult factory)	P(X) Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277)

DIMENSIONS



	A	B	EPA	Weight
PT	24"	23 1/4"	2.4 ft ²	30 lbs.
	610 mm	591 mm	0.2 m ²	13.6 kg

PTR - Peachtree Retrofit module

ORDERING INFORMATION

- Retrofits existing Peachtree HID/HPS systems
- 28 high brightness LEDs at 700mA delivers symmetric distribution at 64w, providing up to 4010 delivered lumens; 4200K and 5100K color temperatures
- Long life 50,000 hour LED rating L70 at 25°C
- Universal voltage driver (120-277V) with +/- 10% tolerance, starting temperature rate -20°F

SERIES	SOURCE
PTR Peachtree LED Retrofit	28-LU-4K 28 LEDs, 64w symmetric distribution, 120-277V, 50/60Hz, 4200K 28-LU-5K 28 LEDs, 64w symmetric distribution, 120-277V, 50/60Hz, 5100K

- Cast aluminum ribbed frame and fitter assembly; Spun aluminum top cover with single screw access to re-lamp
- Polycarbonate refractor provides Type V round light pattern
- Cast aluminum fitters; internal mount for 4.5" OD pole, secured by internal cast expansion fitter; slipfitter mount for 2.375" OD tenon, secured by set screws in fitter
- LED – 4200K or 5100K color temperature
- 42 high brightness LEDs at 700mA deliver symmetric distribution at 110w, providing up to 1670 delivered lumens
- 50,000 hour LED rating L70 at 25°C
- Universal voltage driver (120-277V) with +/- 10% tolerance, starting temperature rated -20°F
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service
- Listed to UL1598 for use in wet locations

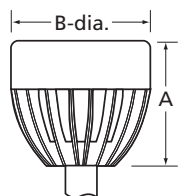


POST TOPS

ORDERING INFORMATION

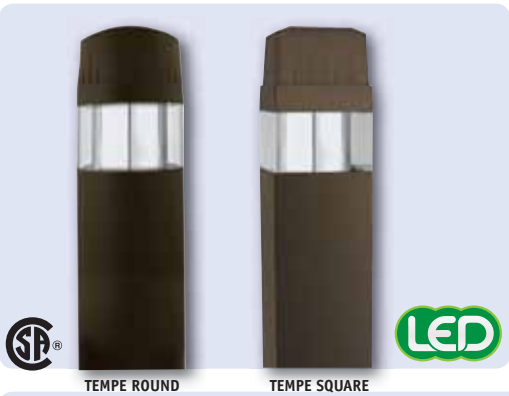
SERIES	MOUNT	SOURCE/WATTAGE/CCT	LENS	COLOR	OPTIONS
VA Vandalia	2F Post-top mount (2 3/8" tenon) F45 Internal fitter (4 1/2" round pole)	42-LU-4K 42 LEDs 110w, 120-277V, 50/60hz, 4200K, 70 CRI 42-LU-5K 42 LEDs 110w, 120-277V, 50/60hz, 5100K, 67 CRI	VP Type 5 polycarbonate refractor IIP Type 2 polycarbonate refractor	DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color (consult factory)	P(X) Photo button (replace X with voltage: 1-120, 2-208, 3-240, 4-277)

DIMENSIONS



	A	B	EPA	Weight
VA	18"	20"	2.8 ft ²	47 lbs.
	457 mm	508 mm	0.3 m ²	21.3 kg

Tempe Bollards



TEMPE ROUND

TEMPE SQUARE

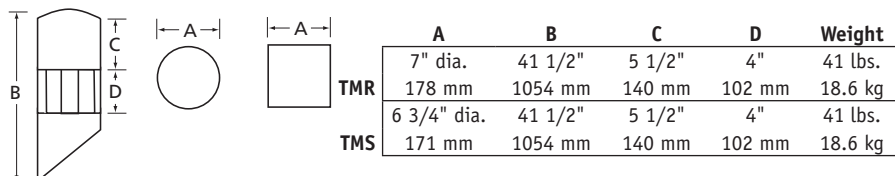
- Rotatable LED assembly adjustment for ideal placement and aiming of asymmetric light pattern
- 24 high brightness LEDs at 500mA deliver symmetric distribution at 46w
- 12 high brightness LEDs at 700mA deliver asymmetric distribution at 30w
- Available in two different color correlated temperatures (3500K and 5100K)
- 50,000 hour L70 rated at 25°C
- Extruded aluminum housing with single screw access for top relamping; Decorative cast top with tamper resistant hardware
- Sealed one-piece, clear acrylic lens
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service
- Concealed, galvanized steel anchor base; Four 1/2" x 10" anchor bolts on 4" diameter bolt circle
- Listed to UL1598 for use in wet locations
- 5 year limited system warranty

ORDERING INFORMATION

SERIES	SOURCE/WATTAGE/LED	COLOR	OPTIONS
TMR Tempe Round	12-LU-3K 12 LEDs, 30w, asymmetric distribution, 3500K, 120-277V, 50/60 Hz	DB Dark Bronze	F(X) Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V)
TMS Tempe Square	12-LU-5K 12 LEDs, 30w, asymmetric distribution, 5000K, 120-277V, 50/60 Hz	BL Black	P(X) Photo button (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V)
	24-LU-3K 24 LEDs, 46w, symmetric distribution, 3500K, 120-277V, 50/60 Hz	WH White	24 24" luminaire height
	24-LU-5K 24 LEDs, 46w, symmetric distribution, 5000K, 120-277V, 50/60 Hz	GR Gray	30 30" luminaire height
		PS Platinum Silver	36 36" luminaire height
		RD Red (premium color)	CD Continuous dimming
		FG Forest Green (premium color)	PAB Pre-ship anchor bolts
		CC Custom Color (consult factory)	

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Distribution	CCT	Voltage	Drivers/Current
	MH	HPS	CFL							
57% SAVINGS! TMR-12LU-3K	70w	70w	42w	1,080	30	36	Asymmetric	4200K	120-277V	1@700mA
57% SAVINGS! TMR-12LU-5K	70w	70w	42w	1,543	30	51	Asymmetric	5100K	120-277V	1@700mA
54% SAVINGS! TMR-24LU-3K	100w	100w	42w	1,720	46	37	Symmetric	4200K	120-277V	2@520mA
54% SAVINGS! TMR-24LU-5K	100w	100w	42w	2,622	46	51	Symmetric	5100K	120-277V	2@520mA
57% SAVINGS! TMS-12LU-3K	70w	70w	42w	1,010	30	35	Asymmetric	4200K	120-277V	1@700mA
57% SAVINGS! TMS-12LU-5K	70w	70w	42w	1,093	30	36	Asymmetric	5100K	120-277V	1@700mA
54% SAVINGS! TMS-24LU-3K	100w	100w	42w	1,644	46	36	Symmetric	4200K	120-277V	2@520mA
54% SAVINGS! TMS-24LU-5K	100w	100w	42w	1,947	46	42	Symmetric	5100K	120-277V	2@520mA

DIMENSIONS



Fresno Bollards

- Rotatable LED assembly adjustment for ideal placement and aiming of asymmetric light pattern
- 24 high brightness LEDs at 500mA deliver symmetric distribution at 46w
- 12 high brightness LEDs at 700mA deliver asymmetric distribution at 30w
- Available in two different color correlated temperatures (3500K and 5100K)
- 50,000 hour L70 rated at 25°C
- Extruded aluminum housing with single screw access for top relamping; Decorative cast top with tamper resistant hardware
- Sealed one-piece, clear acrylic lens
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service
- Concealed, galvanized steel anchor base; Four 1/2" x 10" anchor bolts on 4" diameter bolt circle
- Listed to UL1598 for use in wet locations
- 5 year limited system warranty



FRESNO SQUARE

FRESNO ROUND

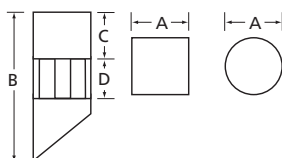
BOLLARDS

ORDERING INFORMATION

SERIES	SOURCE/WATTAGE/LED	COLOR	OPTIONS
FN1 Fresno Square	12-LU-3K 12 LEDs, 30w, asymmetric distribution, 3500K, 120-277V, 50/60 Hz	DB Dark Bronze	F(X) Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V)
FN2 Fresno Round	12-LU-5K 12 LEDs, 30w, asymmetric distribution, 5000K, 120-277V, 50/60 Hz	BL Black	P(X) Photo button (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V)
	24-LU-3K 24 LEDs, 46w, symmetric distribution, 3500K, 120-277V, 50/60 Hz	WH White	24 24" luminaire height
	24-LU-5K 24 LEDs, 46w, symmetric distribution, 5000K, 120-277V, 50/60 Hz	GR Gray	30 30" luminaire height
		PS Platinum Silver	36 36" luminaire height
		RD Red (premium color)	CD Continuous dimming
		FG Forest Green (premium color)	PAB Pre-ship anchor bolts
		CC Custom Color (consult factory)	

Series Number	Equivalency			Delivered Lumens	System Watts	Lumens Per Watt	Distribution	CCT	Voltage	Drivers/ Current
	MH	HPS	CFL							
57% SAVINGS! FN1-12LU-3K	70w	70w	42w	1,080	30	36	Asymmetric	4200K	120-277V	1@700mA
57% SAVINGS! FN1-12LU-5K	70w	70w	42w	1,543	30	51	Asymmetric	5100K	120-277V	1@700mA
54% SAVINGS! FN1-24LU-3K	100w	100w	42w	1,720	46	37	Symmetric	4200K	120-277V	2@520mA
54% SAVINGS! FN1-24LU-5K	100w	100w	42w	2,622	46	51	Symmetric	5100K	120-277V	2@520mA
54% SAVINGS! FN2-12LU-3K	70w	70w	42w	1,010	30	35	Asymmetric	4200K	120-277V	1@700mA
54% SAVINGS! FN2-12LU-5K	70w	70w	42w	1,093	30	36	Asymmetric	5100K	120-277V	1@700mA
57% SAVINGS! FN2-24LU-3K	100w	100w	42w	1,644	46	36	Symmetric	4200K	120-277V	2@520mA
57% SAVINGS! FN2-24LU-5K	100w	100w	42w	1,947	46	42	Symmetric	5100K	120-277V	2@520mA

DIMENSIONS

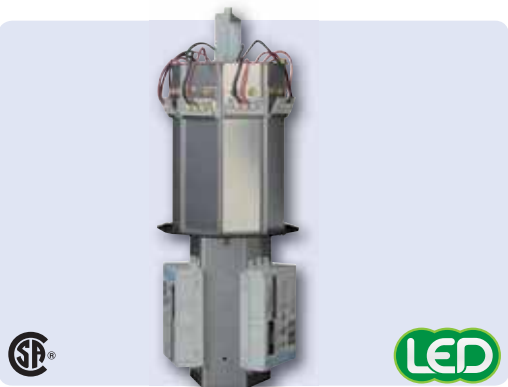


	A	B	C	D	Weight
FN1	6 3/4" sq. 171 mm	42" 1067 mm	6" 152 mm	4" 102 mm	41 lbs. 18.6 kg
FN2	7" dia. 178 mm	42" 1067 mm	6" 152 mm	4" 102 mm	41 lbs. 18.6 kg

BOLR/BOLS

LED Retrofit Kit

BOLLARDS



- LED retrofit kit fits Fresno, Modesto or Tempe bollards
- Easy installation process, retrofit existing HID or CFL systems in 10 minutes or less
- Features 12 or 24 high brightness, energy-efficient LEDs
- Available in two different color correlated temperatures (3500K and 5100K)
- 12 LED system: 700mA, asymmetric distribution, 31w
- 24 LED system: 500mA, symmetric distribution 46w
- 50,000 hr L70 rated at 25° C
- Optional continuous dimming to 10% (0-10V)

ORDERING INFORMATION

SERIES	LED PLATFORM	VOLTAGE	CCT	OPTIONS	ACCESSORIES
BOLR LED Retrofit Kit - Round	24L 24 LEDs, 46w, symmetric distribution, 120-277V, 50/60 Hz	U Universal 120 - 277V, 50/60 Hz	3K 3500K 5K 5100K	F1 Fusing - 120V F2 Fusing - 208V F3 Fusing - 240V F4 Fusing - 277V CD² Continuous dimming	BOLR-LENS¹ Round replacement lens BOLS-LENS¹ Square replacement lens
BOLS LED Retrofit Kit - Square	12L 12 LEDs, 31w, asymmetric distribution, 120-277V, 50/60 Hz	1 120V 2 208V 3 240V 4 277V			

1 Required for Modesto bollard
2 Dimming control by others

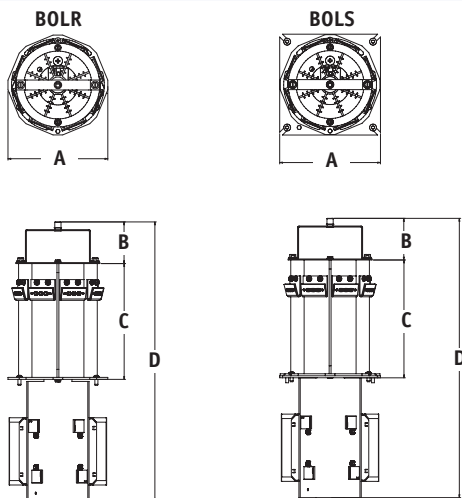


For installation video scan this code or visit link below:



<http://www.youtube.com/user/hubbelloutdoorbrands>

DIMENSIONS



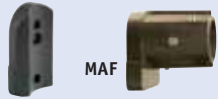
	A	B	C	D	Weight
BOLR	6.25" dia. 158 mm	2.61" 66 mm	7.25" 184 mm	17.48" 444 mm	5.35 lbs. 2.43 kg
BOLS	6.31" dia. 160 mm	2.61" 66 mm	7.38" 187 mm	17.48" 444 mm	5.35 lbs. 2.43 kg

Mounting Accessories

CIMARRON CL1 ACCESSORIES (ORDER SEPARATELY)

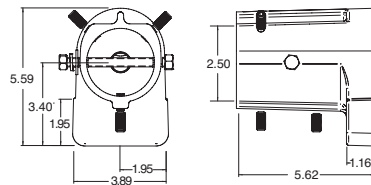
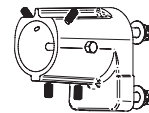
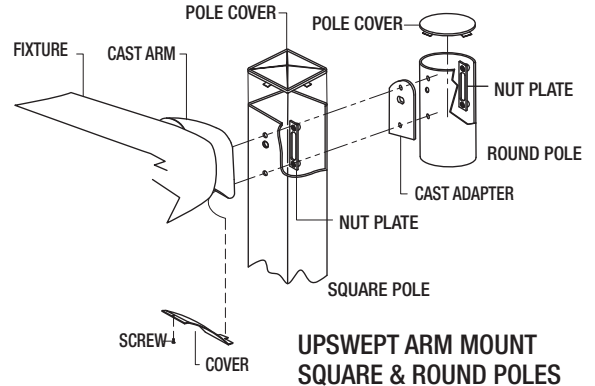
CR-RPAX-XX

MAF

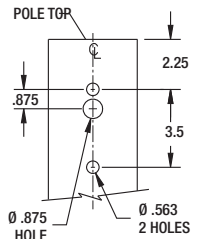


Catalog Number	Description
CR-RPA3-XX ¹	Round pole adapter for straight arm (3 ¹ / ₄ - 3 ³ / ₄ "
CR-RPA4-XX ¹	Round pole adapter for straight arm (3 ⁷ / ₈ - 4 ¹ / ₂ "
CR-RPA5-XX ¹	Round pole adapter for straight arm (5")
CR-RPA6-XX ¹	Round pole adapter for straight arm (6")
CRD-RPA2-XX ¹	Round pole adapter for upswept arm (2 ³ / ₄ - 3 ¹ / ₈ "
CRD-RPA3-XX ¹	Round pole adapter for upswept arm (3 ¹ / ₄ - 3 ³ / ₄ "
CRD-RPA4-XX ¹	Round pole adapter for upswept arm (3 ⁷ / ₈ - 4 ¹ / ₂ "
CRD-RPA5-XX ¹	Round pole adapter for upswept arm (5")
CRD-RPA6-XX ¹	Round pole adapter for upswept arm (6")
WB-CR-XX ¹	Wall bracket
TPLB-XX ¹	Twin parallel luminaire bracket
MAF-CL-XX ²	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

CIMARRON LED CL1 FIXTURE MOUNTING – SQUARE & ROUND



**MAF – HORIZONTAL MAST ARM FITTER
(CL1 ONLY)**



**#2 DRILL PATTERN FOR POLES
(CL1 AND CL1S)**

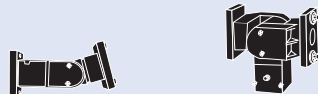
ADJUSTABLE MOUNTING ARMS

ARM-CL-K-S-XX

ARM-CL-TK-TA-XX

Adjusts in 4° increments

Adjusts in 4° increments

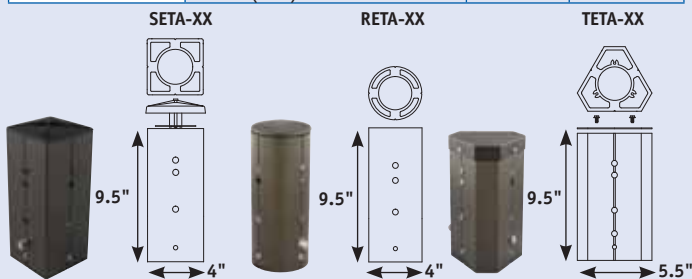


Catalog Number	Description	EPA ft ² (m ²)	Weight lbs. (kg)
ARM-CL-K-TA-XX ¹	2 3/8" OD tenon slipfitter for single fixture	—	5 (2.3)
ARM-CL-TK-TA-XX ¹	2 3/8" OD tenon slipfitter for twin fixture (180°)	—	7 (3.2)
ARM-CL-K-S-XX ¹	10" Adjustable arm	0.5 (0.05)	5.75 (2.6)

Replace XX with color designation: **DB** - Dark Bronze, **BL** - Black, **WH** - White, **GR** - Gray, **PS** - Platinum Silver, **RD** - Red (Premium Color), **FG** - Forest Green (Premium Color), **CC** - Custom Color (consult factory)

TENON TOP POLE BRACKET ACCESSORIES CL1 AND CL1S (ORDER SEPARATELY)

Catalog Number	Description	EPA ft ² (m ²)	Weight lbs. (kg)
SETA-XX ¹	4" Square pole top tenon adapter 2 3/8" OD slipfitter for max. four fixtures (90°)	0.4 ft ² (.04 m ²)	20 lbs. 9 kgs.
RETA-XX ¹	4" Round pole top tenon adapter 2 3/8" OD slipfitter for max. four fixtures (90°)	0.2 ft ² (.02 m ²)	20 lbs. 9 kgs.
TETA-XX ¹	Three sided pole top tenon adapter 2 3/8" OD slipfitter for max. four fixtures (120°)	0.2 ft ² (.02 m ²)	20 lbs. 9 kgs.



CIMARRON CL1S ACCESSORIES (ORDER SEPARATELY)

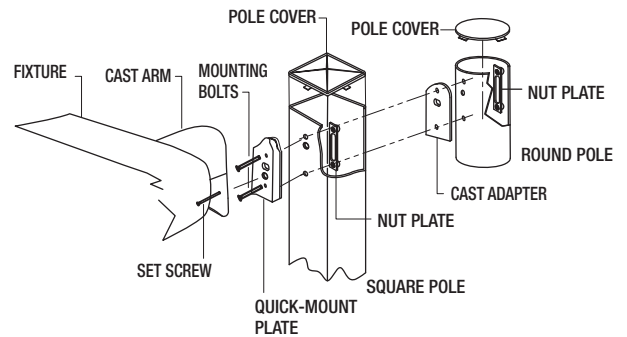
CL1S-RPAX-XX



Catalog Number	Description
CL1S-RPA3AAC-XX ¹	Round pole adapter for straight arm (3 ¹ / ₄ - 3 ³ / ₄ "
CL1S-RPA4AAC-XX ¹	Round pole adapter for straight arm (3 ⁷ / ₈ - 5")
WB-CR-XX ¹	Wall bracket

¹ Replace XX with color choice, eg.: **DB** for Dark Bronze

CIMARRON LED CL1S FIXTURE MOUNTING – SQUARE & ROUND

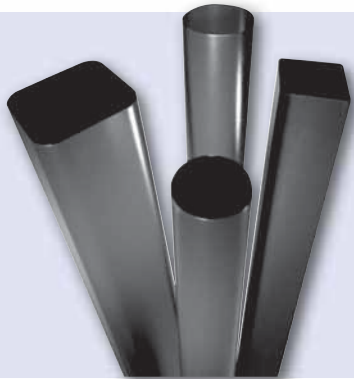


ADDITIONAL ACCESSORIES (ORDER SEPARATELY)

Catalog Number	Description
PTL-1	Photocontrol - twist-lock cell (120V)
PTL-8	Photocontrol - twist-lock cell (120-277V)
PTL-5	Photocontrol - twist-lock cell (480V)
PTL-6	Photocontrol - twist-lock cell (347V)
PSC	Shorting cap - twist-lock

Poles

POLES



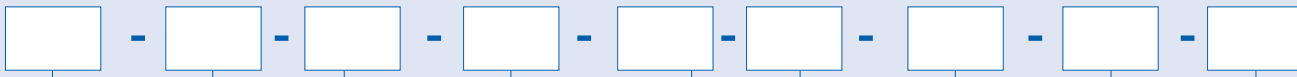
Spaulding's complete line of poles offers simple solutions for all your lighting needs from 8 to 60 feet in height. Pole applications include general floodlighting, sports lighting, auto dealerships commercial site lighting, and roadways. Mounting configurations include tenon top, side mount, pad mount, or open top models to match any luminaire style.

Constructed with exacting standards, both our aluminum and steel poles meet

strict guidelines for quality, strength, and finish. Protecting your investment is our Lektrocote paint or galvanized finish. Both guarantee your investment for years. From shaft cutting through painting, quality control inspections are conducted throughout a highly automated process.

Lastly, to ensure the finish is not damaged during shipment, all poles are protected with a durable yet easily removed material.

ORDERING INFORMATION



CROSS SECTION

- S Square
- R Round

STYLE

- S Straight
- T Tapered
- H Hinged (square steel only)

MATERIAL

- S Steel
- A Aluminum

NOMINAL LENGTH

- 08 8 Feet
- 10 10 Feet
- 12 12 Feet
- 14 14 Feet
- 15 15 Feet
- 16 16 Feet
- 18 18 Feet
- 20 20 Feet
- 25 25 Feet
- 27 27 Feet
- 30 30 Feet
- 35 35 Feet
- 39¹ 39 Feet
- 40 40 Feet
- 45 45 Feet
- 50 50 Feet
- 60 60 Feet

NOMINAL SHAFT DIMENSIONS

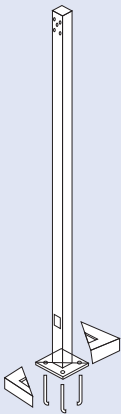
- 30² 3 Inch
- 40 4 Inch
- 45² 4.5 Inch
- 50 5 Inch
- 55² 5.5 Inch
- 60 6 Inch
- 65³ 6.5 Inch
- 70³ 7 Inch
- 80³ 8 Inch
- 85³ 8.5 Inch
- 90³ 9 Inch
- 95³ 9.5 Inch
- 10³ 10 Inch
- 11³ 11 Inch
- 12³ 12 Inch

LUMINAIRE MOUNTING TYPE

- AX⁴ Side - single
- BX⁴ Side - double at 90°
- CX⁴ Side - double at 180°
- DX⁴ Side - triple at 90°
- EX⁴ Side - triple at 120°
- FX⁴ Side - quad at 90°
- P1 Pad mount - spider type
- P2 Pad mount - yoke type
- P3 Pad mount - yoke type (Proformer XL only)
- TR⁹ Removable tenon (2 3/8 x 4 1/4)
- TA Tenon (2 3/8" OD)
- TB Tenon (2 7/8" OD)
- OT Open top (for post top luminaires)
- CD Concord top (use with Concord luminaires only)

OPTIONS

- Q55 Internal coating (Hubbell seal)
- Q18⁵ 15A GFCI receptacle and cover
- Q22⁵ Extra hand hole
- Q26⁵ 1/2" coupling
- Q27⁵ 3/4" coupling
- Q30⁵ 2" coupling
- Q32⁵ Mid-pole luminaire bracket
- Q41 Fast mode vibration damper
- Q42 Second mode vibration damper
- Q45⁶ Square base cover
- Q46⁷ Round base cover
- LAB Less anchor bolts
- CSA⁸ CSA Certified (consult factory)



SHAFT THICKNESS

- 1 Steel - Standard (11 GA / .119)
- 7 Steel - Heavy (7 GA / .179)
- 3 Steel - Extra heavy (3 GA / .226 - .250)
- A Aluminum - Standard (.125)
- B Aluminum - Heavy (.188)
- C Aluminum - Extra heavy (.220 - .250)

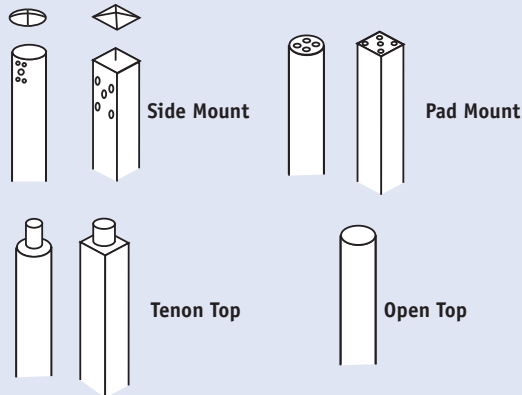
FINISH

- DB Dark Bronze
- BL Black
- WH White
- GR Gray
- PS Platinum Silver
- RD Red (premium color)
- FG Forest Green (premium color)
- CC Custom Color (consult factory)
- PR Primer Only
- GL Hot Dip Galvanized
- NA Natural Aluminum (aluminum poles only)

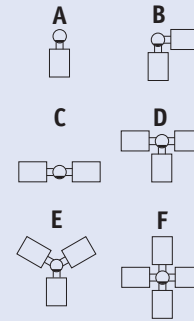
- 1 Round tapered steel poles only
- 2 Round Straight Poles only
- 3 Tapered Poles only
- 4 DRILL PATTERNS: Consult specific pole pages
- 5 Specify option location using logic found in pole introduction pages; The location of all options must start a minimum of six inches above the hand hole and be located one foot apart from one another; Consult factory for any exceptions
- 6 Optional base cover only needed when not provided as standard
- 7 Optional round base cover
- 8 SSS & RSS poles only
- 9 Removable tenon used in conjunction with side arm mounting on SSS series poles; First specify desired arm configuration followed by "TR" notation
Example: SSS-25-40-7-C6-TR-DB

⊗ This pole logic is for reference use only. The appropriate pole table should be used when sizing and ordering poles. Please visit spauldinglighting.com for complete pole information including EPA, wind maps and AASHTO ratings

LUMINAIRE MOUNTING

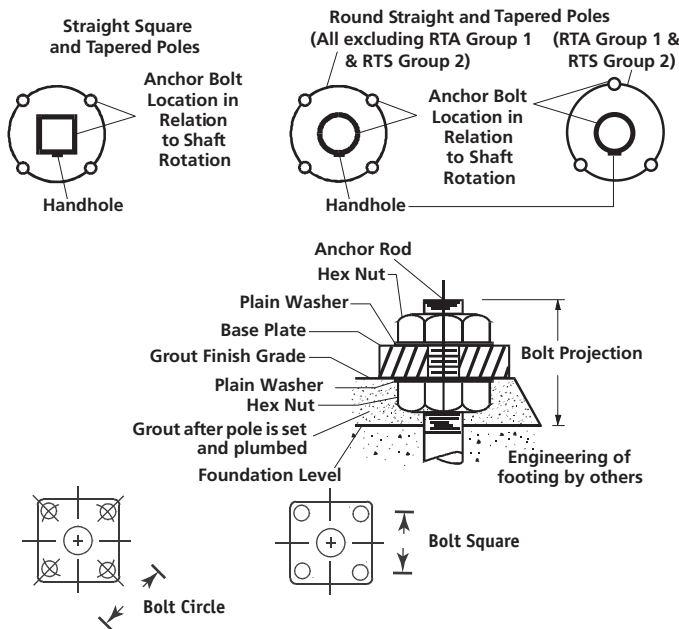


SIDE MOUNTING LOCATIONS



Denotes handhole location

ANCHOR BOLT DETAIL BASE DIAGRAM

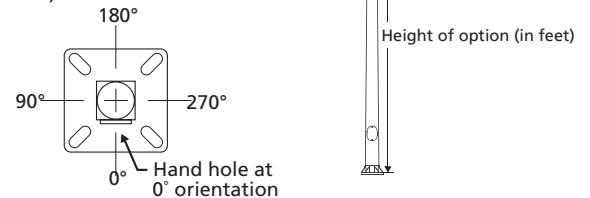


OPTION ORIENTATION

Follow the logic below when ordering location specific options.

For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as:

SSS-20-40-1-A1-DB-Q26-0-15
(1/2" coupling on the hand hole/arm side of pole, 15 feet up from the pole base)



STANDARD ANCHOR BOLTS (Included with pole purchase)

TAB-15	1/2 x 15 x 3" (Non-galvanized) qty: 4
TAB-17-M38	3/4 x 17 x 3" (Galvanized) qty: 3
TAB-30-M38	3/4 x 30 x 3" (Galvanized) qty: 4
TAB-36-M38	1 x 36 x 4" (Galvanized) qty: 4
TAB-42-M38	1 1/4 x 42 x 6" (Galvanized) qty: 4

REPLACEMENT NUT/WASHER KIT

80033249902	3/4" TAB30 Set
80033259902	1" TAB36 Set
80036599903	1 1/4" TAB42 Set

Note Fabricated from high tensile steel, each anchor bolt has two nuts and two washers; Galvanized anchor bolts are hot dipped; (Galvanizing includes threaded portion plus six inches minimum); Anchor bolt template included with pole purchase

POLE BASE COVERS

Catalog Number	Description
Pole Base Covers for Square Poles	
SBC-4-XX ¹	10 1/2" Sq x 5" Deep (use on 4" sq poles)
SBC-4L-XX ¹	12 1/4" Sq x 5" Deep (use 4" sq poles)
SBC-5-XX ¹	12 1/4" Sq x 5" Deep (use on 5" sq poles)
SBC-6-XX ¹	12 1/4" Sq x 5" Deep (use on 6" sq poles)
Pole Base Covers for Round Poles	
SBC-3R-XX ¹	9" Sq x 5" Deep (use on 3" round poles)
SBC-4R-XX ¹	10 1/2" Sq x 5" Deep (use on 4" round poles)
SBC-45R-XX ¹	10 1/2" Sq x 5" Deep (use on 4 1/2" round poles)
SBC-5R-XX ¹	10 1/2" Sq x 5" Deep (use on 5" round poles)
SBC-6R-XX ¹	10 1/2" Sq x 5" Deep (use on 6" round poles)
RBC-4R-XX ¹	10.91" Dia. x 5" Deep (use on 4" round poles)
RBC-4RL-XX ¹	14.35" Dia. x 5" Deep (use on 4" round poles)
RBC-45R-XX ¹	10.91" Dia. x 5" Deep (use on 4 1/2" round poles)
RBC-45RL-XX ¹	14.35" Dia. x 5" Deep (use on 4 1/2" round poles)
RBC-5R-XX ¹	11.91" Dia. x 5" Deep (use on 5" round poles)
RBC-5RL-XX ¹	14.35" Dia. x 5" Deep (use on 5" round poles)
RBC-6R-XX ¹	11.91" Dia. x 5" Deep (use on 6" round poles)
RBC-6RL-XX ¹	14.35" Dia. x 5" Deep (use on 6" round poles)
RTS-2065-XX-Q45 ¹	13" Sq x 5" Deep (use on 6 1/2" round poles)
RTS-2570-XX-Q45 ¹	13" Sq x 5" Deep (use on 7" round poles)
RTS-3080-XX-Q45 ¹	13" Sq x 5" Deep (use on 8" round poles)
RTS-3585-XX-Q45 ¹	13" Sq x 5" Deep (use on 8 1/2" round poles)
RTS-3990-XX-Q45 ¹	13" Sq x 5" Deep (use on 9" round poles)

¹ Replace XX with color choice, eg.: DB for Dark Bronze