

Beaverton Public Safety Center

Land Use – Cutsheets

March 27, 2019

pae-engineers.com

TYPE S1A, S1B, S1C

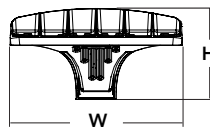
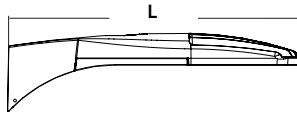
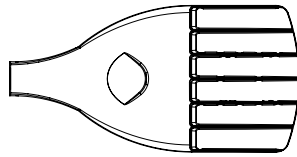


D-Series Size 0 LED Area Luminaire



Specifications

EPA:	0.95 ft ² (.09 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height:	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

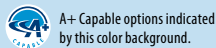
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P4 P7 P2 P5 P3 P6 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted ²	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short TSS Type V short TSM Type V medium TSW Type V wide BLC Backlight control ^{2,3} LCCO Left corner cutoff ^{2,3} RCCO Right corner cutoff ^{2,3}	MVOLT ^{4,5} 120 ⁶ 208 ^{5,6} 240 ^{5,6} 277 ⁶ 347 ^{5,6,7} 480 ^{5,6,7}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁸ RPUMBA Round pole universal mounting adaptor ⁸ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁹
Control options				Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹⁰ PER NEMA twist-lock receptacle only (control ordered separate) ¹¹ PER5 Five-wire receptacle only (control ordered separate) ^{11,12} PER7 Seven-wire receptacle only (control ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (control ordered separate) PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{5,13,14} PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{5,13,14} PIRHN Network, Bi-Level motion/ambient sensor ¹⁵ PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,13,14}				Shipped installed HS House-side shield ²⁰ SF Single fuse (120, 277, 347V) ⁶ DF Double fuse (208, 240, 480V) ⁶ L90 Left rotated optics ¹ R90 Right rotated optics ¹ DDL Diffused drop lens ²⁰ Shipped separately BS Bird spikes ²¹ EGS External glare shield ²¹	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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Ordering Information

Accessories

Ordered and shipped separately.

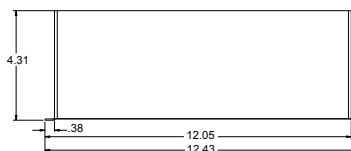
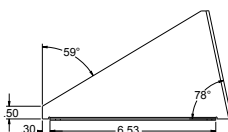
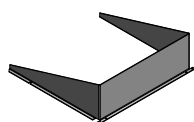
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²²
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²²
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²²
DSHORT SBK U	Shorting cap ²²
DSXHS 20C U	House-side shield for 20 LED unit ²⁰
DSXHS 30C U	House-side shield for 30 LED unit ²⁰
DSXHS 40C U	House-side shield for 40 LED unit ²⁰
DSXDDL U	Diffused drop lens (polycarbonate) ²⁰
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) ²¹
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ²¹

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

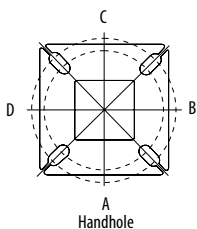
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO, P4, P7 or P13.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 to see functionality.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Requires (2) separately switched circuits.
- Not available with 347V, 480V or PNMT. For PER5 or PER7 see PER Table on page 3. Requires isolated neutral.
- Not available with 347V, 480V, BL30 and BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

External Glare Shield



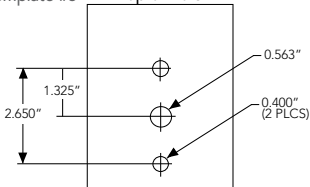
Drilling

HANDHOLE ORIENTATION



Template #8

Top of Pole



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Pole drilling nomenclature: # of heads at degree from handhole (default side A)

DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

*3 fixtures @ 120 require round pole top/tenon.

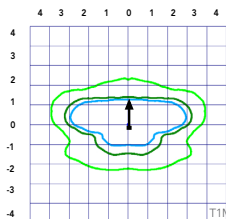
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's D-Series Area Size 0 homepage](#).

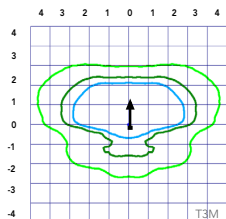
Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND

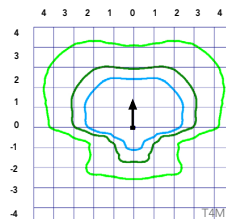
0.1 fc
0.5 fc
1.0 fc



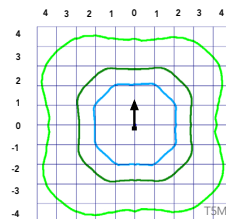
Test No. LT1234567P25 tested in accordance with IESNA LM-79-08.



Test No. LT1234567P25 tested in accordance with IESNA LM-79-08.



Test No. LT1234567P25 tested in accordance with IESNA LM-79-08.



Test No. LT1234567P25 tested in accordance with IESNA LM-79-08.



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	25000	50000	100000
Lumen Maintenance Factor	0.96	0.92	0.85

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use with Inline Dusk to Dawn or timer.

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture

✓ Recommended
✗ Will not work
▲ Alternate

*Future-proof means: Ability to change controls in the future.





RSX1 LED Area Luminaire



Catalog
Number

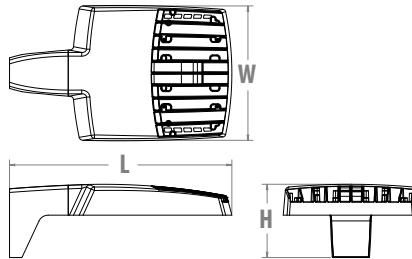
Notes

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Specifications

EPA (ft²@0°):	0.57 ft² (0.05 m²)
Length:	21.8" (55.4 cm) (SPA mount)
Width:	13.3" (33.8 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
Weight (max):	25.0 lbs (11.3 kg)



Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor and an adjustable integral slip-fitter are also available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED					
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R3 Type 3 Wide R4 Type 4 Wide R5 Type 5 Wide RSS Type 5 Short AFR Automotive Front Row	MVOLT (120V-277V) ¹ HVOLT (347V-480V) ² (use specific voltage for options as noted) 120 ³ 277 ³ 208 ³ 347 ³ 240 ³ 480 ³	SPA Square pole mounting (Min. 3.0" SQ for 1 at 90°, Min. 3.5" SQ for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min pole dia. for 1,2,3 or 4 at 90°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) ⁴ WBA Wall bracket

Options	Finish
Shipped Installed HS House-side shield PE Photocontrol, button style ^{5,7} PEX Photocontrol external threaded, adjustable ^{6,7} PER7 Seven-wire twist-lock receptacle only (no controls) ^{7,8,9} CE34 Conduit entry 3/4" NPT (Qty 2) SF Single fuse (120, 277, 347) ³ DF Double fuse (208, 240, 480) ³ SPD20KV 20KV Surge pack (10KV standard) FAO Field adjustable output DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	Shipped Installed *Standalone Sensors Controls (factory default settings, see table page 5) PIRS Motion/ambient sensor for 8-20' mounting heights ^{7,14,15} PIRHS Motion/ambient sensor for 20-40' mounting heights ^{7,14,15} *Networked Sensors/Controls NL TAIR2 nLight AIR generation 2 ^{10,15} PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{7,11,14,15}
Shipped Separately (requires some field assembly) EGS External glare shield EGFV External glare full visor (360° around light aperture) BS Bird spikes ¹²	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured Dark Bronze DBLBXD Textured Black DNATXD Textured Natural Aluminum DWHGXD Textured White

*Note: Sensor coverage pattern is affected when luminaire is tilted.



Ordering Information

Accessories

Ordered and shipped separately.

RSX1HS	RSX1 House side shield (includes 1 shield)
RSX1EGS U	External glare shield (specify finish)
RSX1EGFV U	External glare full visor (specify finish)
RSXRPA U	RSX Universal round pole adaptor plate (specify finish)
RCPIRS	Remote control PIRS/PIRHS field programmer
DL127F 1.5 JU	Photocell -SSL twist-lock (120-277V) ¹¹
DL1347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) ¹¹
DL1480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) ¹¹
DSHORT SBK U	Shorting cap ¹³

NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 3 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 4 IS maximum tilt is 90° above horizontal.
- 5 Requires MOVLT or 347V.
- 6 Requires 120V, 208V, 240V, 277V or 347V.
- 7 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, PIRS, PIRHS, PIRHN).
- 8 Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.

- 9 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 10 Must be ordered with PIRHN.
- 11 Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- 12 Must be ordered with fixture for factory pre-drilling.
- 13 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 14 Two or more of the following options cannot be combined including DMG, PER7, FAO, PIRS, PIRHS and PIRHN.
- 15 Requires MVOLT or HVOLT.

External Shields



House Side Shield



External Glare Shield

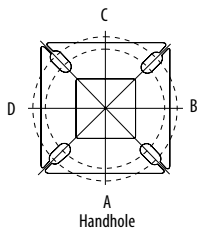


External 360 Full Visor

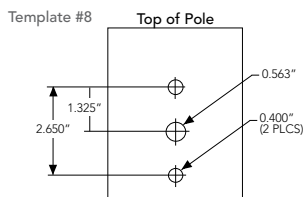
Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

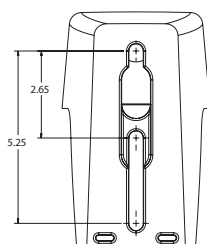
HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM



Tenon Adapters

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Pole Drilling Nomenclature

Number of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

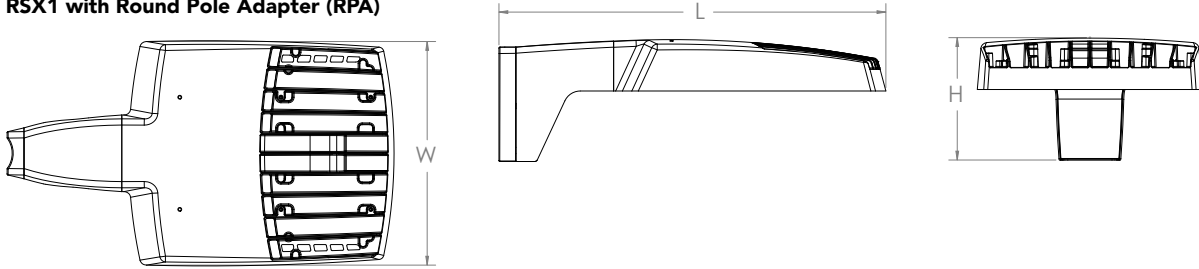
RSX1 - Luminaire EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt									
SPA - Square Pole Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
RPA - Round Pole Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
MA - Mast Arm Adaptor	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.13	1.7	2.26
IS - Integral Slipfitter	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
	40°	1.81	2.68	2.98	3.85	3.68	5.3	3.62	5.43	7.24
	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97

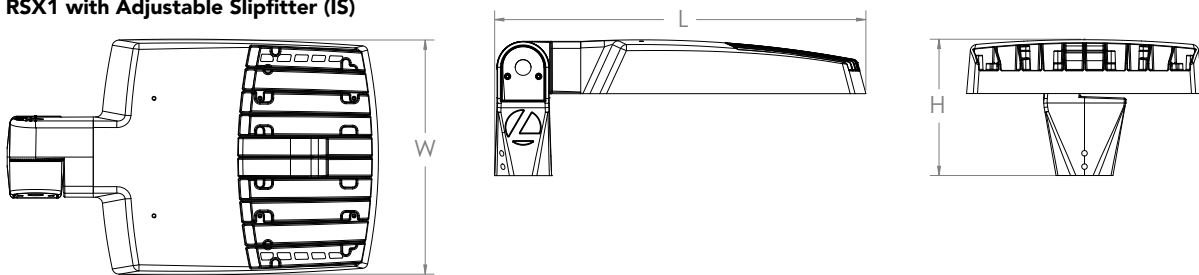
Dimensions

RSX1 with Round Pole Adapter (RPA)



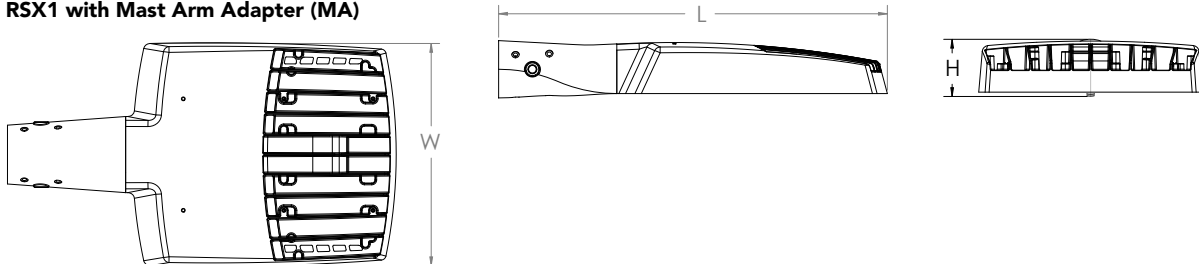
Length: 22.8" (57.9 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.2" (18.4 cm) Arm

RSX1 with Adjustable Slipfitter (IS)



Length: 20.7" (52.7 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.6" (19.3 cm) Arm

RSX1 with Mast Arm Adapter (MA)



Length: 23.2" (59.1 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 3.5" (8.9 cm) Arm

ULI-21173

Light Linear PT 3 Single Head Streetlight

7144 NE Progress Ct | Hillsboro, Oregon 97124
T: 503.645.0500 F: 503.645.8100
www.ligmanlightingusa.com

LIGMAN
LIGHTING USA



Length - 39.3"

Height - 8' - 20'
Heights above 20', contact factory

Weight 65 lbs

IP65
Suitable for wet locations

IK07
Impact Resistant [Vandal Resistant]

EPA - 1.20

POLE INCLUDED

Construction

Aluminum

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B1 - U0 -G1

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Public realm contemporary column family. Stylish but technically precise area lighting solutions as part of a large flexible family.

Light Linear PT is an elegant minimalist lighting column that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual sealed optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LED's, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements.

An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture. This product range is available in 54w, 80w, 106w & 152w options, as a single & double head styles. Customer specific wattages can be provided, contact the factory for more information.

This luminaire complies to Dark Sky requirements. The sleek and minimalist shape provides distinctive lighting effects by night and decorative urban effect during the day. Suitable for use in pedestrian precincts, building surroundings, shopping centers, squares, parks and parking lots.

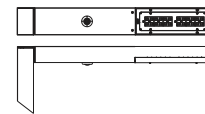
This product range is complemented with high performance optics in the bollard and wall mounted luminaires, to provide a consistent range of design aesthetics for the project. See website for more information. Poles can be provided with GFCI boxes positioned to specific heights specified by the customer. A flat low profile hand hole cover with vandal resistant screws is provided for easy installation.

Internal house side shields are available as an option. Available with a selection of integral electronic drivers and dimming electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems, as well as pole mounted occupancy sensors [contact the factory for more information] Easy access to the luminaire for maintenance. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly. (See options on page 2)

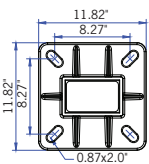
Additional Options (Consult Factory For Pricing)



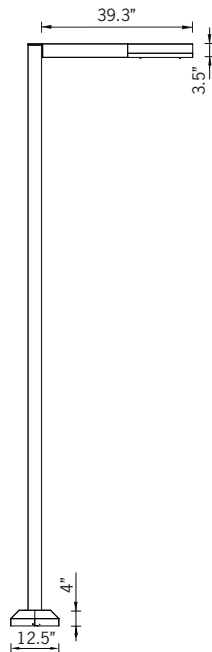
A20891
Root Mount Kit



OS
Occupancy Sensor



Mounting Detail



Light Linear PT Product Family



ULI-30011



ULI-30022



ULI-10021



ULI-10031



ULI-21181



ULI-21231



ULI-21251



ULI-21173

Light Linear PT 3 Single Head Streetlight

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www.ligmanlightingusa.com

LIGMAN
LIGHTING USA

PROJECT					DATE	
QUANTITY		TYPE		NOTE		

ORDERING EXAMPLE || ULI - 21173 - 80w - T2 - W30 - 02 - 18' - 120/277v - Options

LAMP	BEAM	LED COLOR	FINISH COLOR	POLE HEIGHT	VOLTAGE
80w LED 7646 Lumens WATT-ADJ Specify Watts (80w MAX)	T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	8' - 20' (For over 20', contact factory)	120/277v Other - Specify

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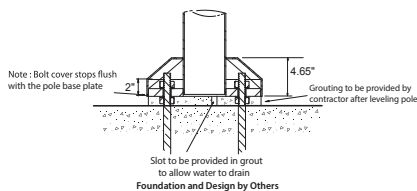
ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
A20891 - Root Mount Kit
OS - Occupancy Sensor
F - Frosted Lens

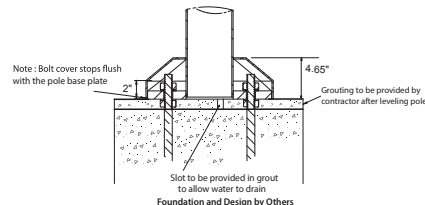
GFCI - GFCI Box
WLC - Wireless Lighting Controls
HSS - House Side Shield
AMB - Turtle Friendly Amber LED

MOUNTING OPTIONS

Option A



Option B



ULI-21181

Light Linear PT 5 Double Head Streetlight

7144 NE Progress Ct | Hillsboro, Oregon 97124
 T: 503.645.0500 F: 503.645.8100
 www.ligmanlightingusa.com

LIGMAN
 LIGHTING USA



Length - 82.2"

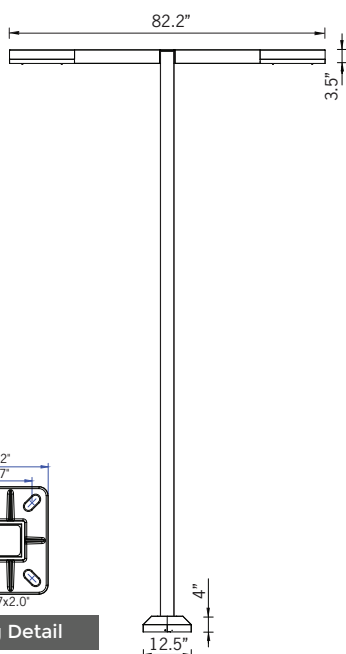
Height - 8' - 20'
Heights above 20', contact factory

Weight 81.1 lbs

IP65
Suitable for wet locationsIK07
Impact Resistant [Vandal Resistant]

EPA - 1.20

POLE INCLUDED



Mounting Detail

Construction**Aluminum**

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

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Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B1 - U0 -G1

Finishing

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Paint

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Hardware

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Anti Seize Screw Holes

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Optics & LED

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Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Public realm contemporary column family. Stylish but technically precise area lighting solutions as part of a large flexible family.

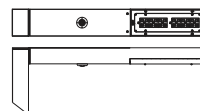
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Additional Options (Consult Factory For Pricing)A20891
Root Mount KitOS
Occupancy Sensor**Light Linear PT Product Family**

ULI-30011



ULI-30022



ULI-10021



ULI-10031



ULI-21171



ULI-21231



ULI-21251



PROJECT		DATE	
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QUANTITY		TYPE		NOTE	
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ORDERING EXAMPLE || ULI - 21181 - 2x54w - T2 - W30 - 02 - 18' - 120/277v - Options

LAMP	BEAM	LED COLOR	FINISH COLOR	POLE HEIGHT	VOLTAGE
2x54w LED 2x5669 Lumens WATT-ADJ Specify Watts (2x54w MAX)	T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	8' - 20' (For over 20', contact factory)	120/277v Other - Specify

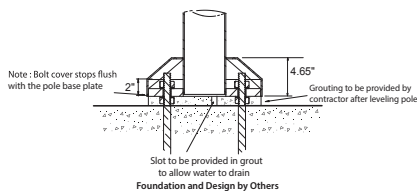
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ADDITIONAL OPTIONS

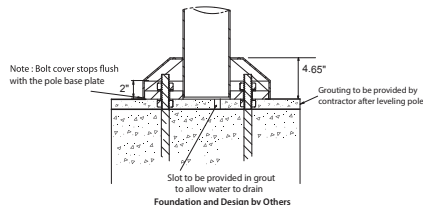
DIM - 0-10v Dimming	GFCI - GFCI Box
NAT - Natatorium Rated	WLC - Wireless Lighting Controls
A20891 - Root Mount Kit	HSS - House Side Shield
OS - Occupancy Sensor	AMB - Turtle Friendly Amber LED
F - Frosted Lens	

MOUNTING OPTIONS

Option A



Option B

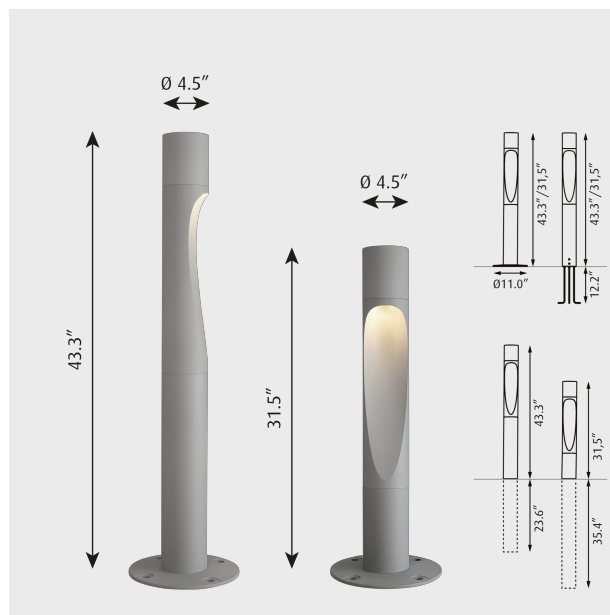


Flindt Bollard

Project name:

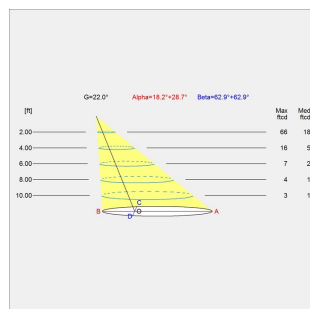
Project type:

Notes:

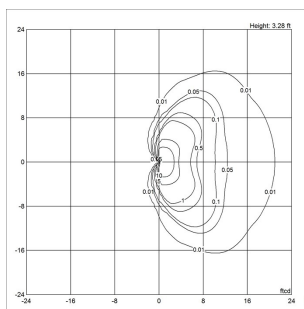


Light distribution diagrams

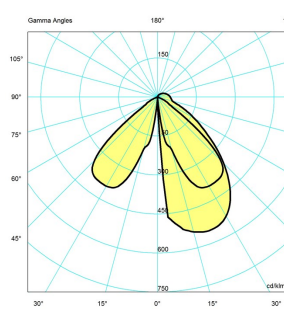
Cartesian



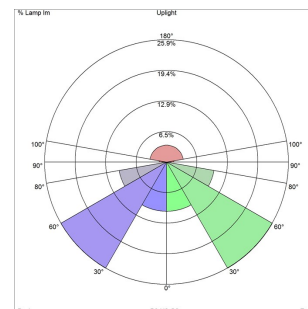
Isolux



Polar



Bug



Variant options

Dimension	Light source	Voltage frequency	Color	Mounting	Lighting control
31.5 IN	14W LED/3000K	120-277V/60HZ	Corten color	-	DIM 0-10V
43.3 IN	LED 4000K		Nat paint alu	POST W/BASE PLATE	
				POST W/DIRECT BURIAL	

Product description

A slim post with a cut-out to make a light opening and to create a light reflecting part.
The lamps are hidden in the top of the cut-out.
Two horizontal connection lines underlines the three parts of the bollard.
A facet increases the visibility of the connection lines.
Easy mounting done by connector and because open access to terminals – no mounting through a door.

Driver position: In the top
Top section housing driver and LEDs use quick-disconnect plug for easy servicing.
Terminal block position: In reflector section.
Looping: Approved, max. 5x6mm²..
IP68 (water-tight) glands seal mid-section for pass-through wire connection.
Base plate dimension: 11" diameter. Base plate: Mounted to a concrete base with 4 anchor bolts.
Direct burial mounting with minimum 24.2" below ground depth.
In ground struts: Yes.

Design

Christian Flindt

Weight

Min: 0 lbs Max: 23.001 lbs

Finish

Corten color, Nat paint alu

Light description

The fixture provides a non-glaring wide characteristic asymmetrical and functional illumination.
The design of the cut-out creates a reflector part which is gradually illuminated to emphasize the depth in the fixture.
The cut-out and the reflector provides an wing-shaped pattern on the ground.
A white highly reflective material around the LEDs ensures a wide light and a high efficacy.
The reflector part can be adjusted $\pm 10^\circ$ after installation for fine tuning of the light direction.
LED technology with more options of standard CCTs.
Electronic dimmable driver.

Mounting

Top, reflector part and base plate: Cast aluminium, aluminium coloured with textured surface, powder coated.
Post: Extruded aluminium, 3. 5mm (0. 14") thick, aluminium coloured with textured surface, powder coated
Diffuser: Clear polycarbonate.
Base plate: Die cast aluminum, 13mm (0. 5") thick.
Gaskets: Black silicone.
Reflector: White MC-PET polycarbonate.
Internal structure bolts: 6mm (0. 23") thick galvanized steel.
Internal rotational plate: cast aluminum, 6mm (0. 23") thick.
Brackets for driver and LEDs: zinc-plated aluminum sheet metal, 1. 3mm (0. 5") thick
US:
Anchor bolts: zinc-plated steel, ½" x 15" long.

Dimensions

31.5 IN, 43.3 IN

Voltage

120-277V/60HZ



FEATURES

- Extruded aluminum single piece housing
- 4' and 8' individual units
- Straight runs with proprietary joiner design
- Three standard lumen packages
- Efficacy up to 145 LPW
- 2.5 MacAdam ellipse binning
- Soft diffuse lighting
- Diffused acrylic lens band between continuous run fixtures
- Seamless connection with Nova 2 Curve fixtures
- Standard powder coat finishes: white, black and silver
- Custom colors available upon request
- Approved for dry and damp locations
- 5 year warranty
- Made in the USA

SPECIFICATIONS

PERFORMANCE (LOW OUTPUT, CRI 80+)			
Model	Lumens	Watts	LPW
SP-V2-4L-30K	2,029	16.8	120.9
SP-V2-4L-35K	2,058	16.8	122.7
SP-V2-4L-40K	2,086	16.8	124.5
SP-V2-4L-50K	2,143	16.7	128.0
SP-V2-8L-30K	4,307	33.0	130.5
SP-V2-8L-35K	4,375	33.0	132.7
SP-V2-8L-40K	4,443	32.9	135.0
SP-V2-8L-50K	4,578	32.8	139.5

PERFORMANCE (STANDARD OUTPUT, CRI 80+)			
Model	Lumens	Watts	LPW
SP-V2-4S-30K	3,424	26.5	129.3
SP-V2-4S-35K	3,483	26.5	131.3
SP-V2-4S-40K	3,541	26.6	133.4
SP-V2-4S-50K	3,658	26.6	137.5
SP-V2-8S-30K	7,204	52.9	136.1
SP-V2-8S-35K	7,329	52.9	138.5
SP-V2-8S-40K	7,453	52.9	140.8
SP-V2-8S-50K	7,702	52.9	145.6

PERFORMANCE (HIGH OUTPUT, CRI 80+)			
Model	Lumens	Watts	LPW
SP-V2-4H-30K	5,805	47.2	123.1
SP-V2-4H-35K	5,882	47.1	124.9
SP-V2-4H-40K	5,960	47.0	126.7
SP-V2-4H-50K	6,114	46.9	130.4
SP-V2-8H-30K	11,776	93.0	126.6
SP-V2-8H-35K	11,917	93.2	127.9
SP-V2-8H-40K	12,137	93.2	130.2
SP-V2-8H-50K	12,578	93.2	135.0

*Bold indicates DLC Premium 4.2 Listed

ORDERING INFORMATION

SP	—	V2	—		—		—	
SERIES	MODEL		LENGTH	OUTPUT	COLOR TEMP.		FINISH	
SP	V2 = Nova 2		4 = 4' 8 = 8' xxx = Run ¹	L = Low S = Standard H = High	30K = 3000K 35K = 3500K 40K = 4000K 50K = 5000K		PW = Powder Coat White PB = Powder Coat Black PS = Powder Coat Silver PO = Powder Coat Other	

WIRING OPTIONS	MOUNTING ACC.	OPTIONS	DIMMING OPTIONS	VOLTAGE	PLUG
ECTW05 = Cord, Top Exit, White 5'	PMGC05 = Pendant Mount w/ Grippers and 5' Cables w/ Loops	NS = No Sensor	ND = No Dimming	U = 120-277	PN = No Plug
ECTW10 = Cord, Top Exit, White 10'	PMGC10 = Pendant Mount w/ Grippers and 10' Cables w/ Loops	DM = Daylight/Motion Sensor	AD = 0-10V Dimming	C = 347	P1 = L5-15p
ECTB05 = Cord, Top Exit, Black 5'	PMCK05 = Pendant Mount w/ 5' Canopy Kit	MS = Motion Sensor			P2 = L6-15p
ECTB10 = Cord, Top Exit, Black 10'	PMCK10 = Pendant Mount w/ 10' Canopy Kit	B06A = Battery Backup 6 Watt w/ Unswitched Line			P3 = L7-15p
ECEW05 = Cord, End Exit, White 5'	RM = Rotational Mount	B10A = Battery Backup 10 Watt w/ Unswitched Line			
ECEW10 = Cord, End Exit, White 10'	SM = Surface Mount	B06B = Battery Backup 6 Watt w/ Night Light Option			
ECEB05 = Cord, End Exit, Black 5'	TM = T-Grid Mount	B10B = Battery Backup 10 Watt w/ Night Light Option			
ECEB10 = Cord, End Exit, Black 10'	BX4 = Box Mount 4" Square	NL = Night Light Without Battery Backup			
FCT = Feed Conduit (Through Wire), Top Exit	BXU = Box Mount Utility				
FCE = Feed Conduit (Through Wire), End Exit					

Example: SP-V2-4S-35K-PW-ECTW05-PMGC05-NS-ND-U-PN

See website for accessories page.

¹Run-Designated by the length in feet and includes Starter, Joiner and End units as required.



5 YEAR WARRANTY



Made In USA



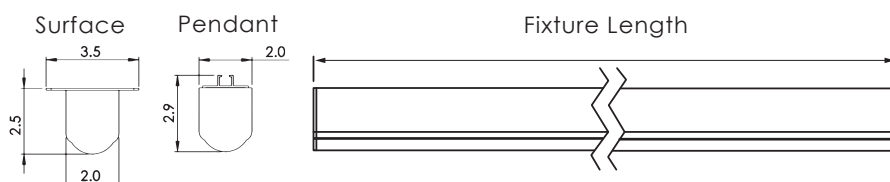
Nova 2 Direct

CONSTRUCTION

DIMENSIONS			
Model	Nominal Length	Length	Weight
SP-V2-4	4 ft.	48.0" (1,219mm)	5 lbs. max (2.3kg)
SP-V2-8	8 ft.	96.0" (2,348mm)	10 lbs. max (4.5kg)

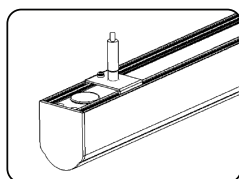
MATERIALS	
Housing	Aluminum Extrusion
Finish	Powder Coat White Powder Coat Black Powder Coat Silver
Lens Cover	Frosted Acrylic (Impact Resistant)

ELECTRICAL	
Input Voltage	U: 120-277 Vac C: 347 Vac
Hertz	50/60
Input Current	SP-V2-8H-x-U: .77 - .33A SP-V2-8S/8L/4H-x-U: .56-.24A SP-V2-4S/4L-x-U: .29-.13A SP-V2-8H-x-C: .27A SP-V2-8S/8L/4H-x-C: .185A SP-V2-4S/4L-x-C: .11
Operating Temp.	-40°C to +50°C -40°F to +122°F
Power Factor	> 0.93
THD	< 12%



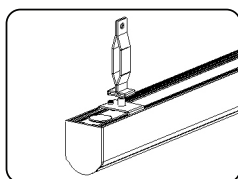
MOUNTING

Pendant

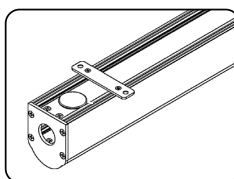


*Pendant mount comes with gripper to accept cable and optional canopies.

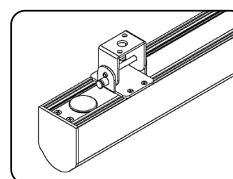
T-Grid



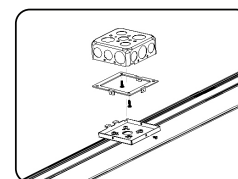
Surface



Rotational



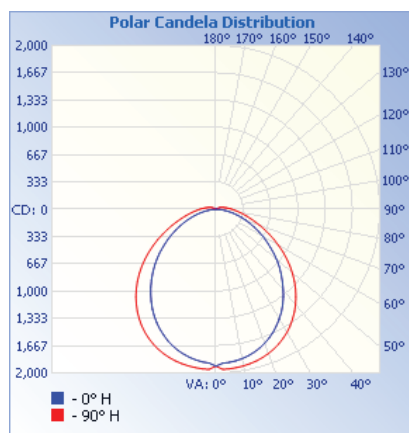
Box Mount
(Center of Fixture)



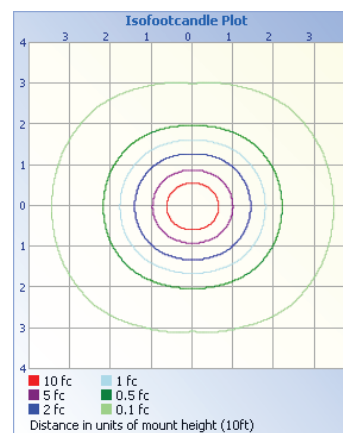
*4" Square mount shown. Utility Box mount also available.

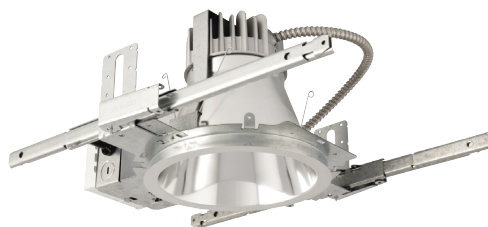
PHOTOMETRICS: SP-V2-4H-35K

POLAR CANDELA DISTRIBUTION



ISOFOOTCANDLE PLOT





Luminaire Type:
Catalog Number
(autopopulated):



Gotham Architectural Downlighting
LED Downlights

**8" Evo®
Downlight**

Solid-State Lighting



FEATURES

OPTICAL SYSTEM

- Self-flanged semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine

MECHANICAL SYSTEM

- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture

ELECTRICAL SYSTEM

- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

LISTINGS

- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling

WARRANTY

- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

WATTAGE CONSUMPTION MATRIX			
LUMENS	LM ACTUAL	WATTAGE	LUMENS per WATT
2000	2,287	31.6	72.5
2500	2,964	41.1	72.0
3000	3,398	47.1	72.2

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details



8" EVO

Downlight

Solid-State Lighting



ORDERING INFORMATION



A+ Capable options indicated by this color background.



Design2Ship Quick Ship Program: Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 100 units; 50 for Chicago Plenum.**

EXAMPLE: EVO 35/25 8AR MWD LSS 120 EZ1

Series	Color temperature	Nominal lumen values	Aperture/Trim color	Distribution	Finish	Voltage
EVO	27/ 2700 K	20 2000 lumens	8AR Clear	VND Very narrow (0.5 s/mh)	LSS Semi-specular	120
	30/ 3000 K	25 2500 lumens	8PR Pewter	ND Narrow (0.7 s/mh)	LD Matte-diffuse	277
	35/ 3500 K	30 3000 lumens	8WTR Wheat	MD Medium (0.9 s/mh)	LS Specular	347 ²
	40/ 4000 K		8GR Gold	MWD Medium wide (1.0 s/mh)		
			8WR ¹ White	WD Wide (1.2 s/mh)		
			8BR ¹ Black			
			8WRAMF ¹ White anti-microbial			

Driver ³	Options	
GZ10 0-10V driver dims to 10%	SF⁵ Single fuse.	NPS80EZ⁹ nLight® dimming pack controls 0-10V eldoLED drivers (EZ_).
GZ1 0-10V driver dims to 1%	TRW⁶ White painted flange	NPS80EZER⁹ nLight® dimming pack controls 0-10V eldoLED drivers (EZ_). ER controls fixtures on emergency circuit.
EZ10 eldoLED 0-10V EC0drive. Linear dimming to 10% min.	TRBL⁷ Black painted flange	N80¹⁰ nLight® Lumen Compensation
EZ1 eldoLED 0-10V EC0drive. Linear dimming to 1% min.	EL⁸ Emergency battery pack with integral test switch	BGTD Bodine generator transfer device. Specify 120V or 277V.
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	ELR⁸ Emergency battery pack with remote test switch	CRI90 High CRI (90+)
EDAB⁴ eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	ELSD⁸ Emergency battery pack with self-diagnostics, integral test switch	CP¹¹ Chicago plenum. Specify 120V or 277V.
EDXB⁴ eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual .	ELRSD⁸ Emergency battery pack with self-diagnostics, remote test switch	RRL__ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature.
EXA1 XPoint Wireless, eldoLED 0-10V EC0drive. Linear dimming to 1%. Refer to XPoint tech sheet.	E10WCP⁸ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	NLTAIR2¹² nLight® Air enabled
EXAB XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.	E10WCPR⁸ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	NLTAIRER2¹² nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit
ECOS2^{4,5} Lutron® Hi-Lume® 2-wire forward-phase driver.120V only. Minimum dimming level 1%.	NPP16D⁹ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	
ECOS3^{4,5} Lutron® Hi-Lume® 3-wire or EcoSystem dimming driver. Minimum dimming level 1%.	NPP16DER⁹ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	

ACCESSORIES

ACCESSORIES order as separate catalog numbers (shipped separately)	
SCA8	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to TECH-190 .
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
GVRT	Vandal-resistant trim accessory. Refer to TECH-200 .
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC .

NOTES

ORDERING NOTES	
1. Not available with finishes.	8. For dimensional changes, refer to TECH-140 . Not available with 347V.
2. Not available with GZ10, GZ1, EL or ELR options.	9. Specify voltage. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
3. Refer to TECH-240 for compatible dimmers.	10. Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZER.
4. Not available with nLight [®] and XPoint options.	11. ELR not available.
5. Must specify voltage 120V or 277V.	12. Not available DALI or DMX drivers. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. Not recommended for metal ceiling installations.
6. Not available with white reflector.	
7. Not available with black reflector	

GOTHAM ARCHITECTURAL DOWNLIGHTING | P 800.315.4982 | gothamlighting.com

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EVO-8-OPEN

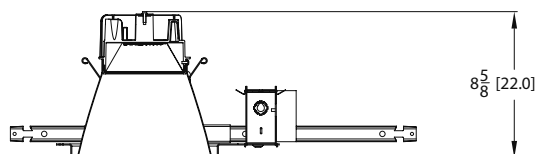
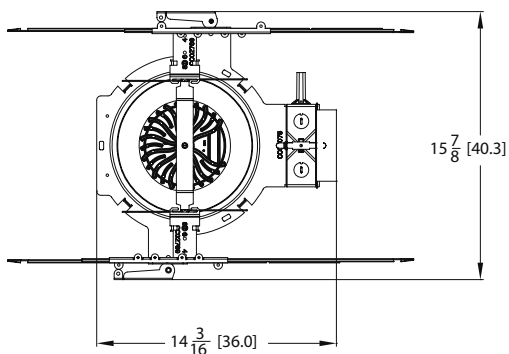
PAGE 2 OF 5

8" EVO
Downlight
 Solid-State Lighting



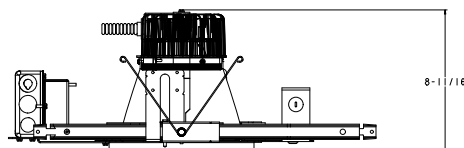
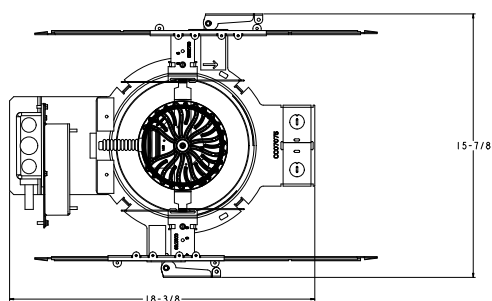
DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.



Aperture: 8-5/8 (21.9)
 Ceiling Opening: 8-3/4 (22.2)
 Overlap Trim: 9-1/4 (23.5)

DIMENSIONS FOR CHICAGO PLENUM



ELECTRICAL

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.



Wall luminaires with directed light

Housing: One piece die-cast aluminum supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: One piece die-cast aluminum cover frame secured by captive socket head, stainless steel screws threaded into stainless steel inserts. Semi-specular, anodized aluminum internal reflector. Stippled tempered clear glass. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket.

Electrical: 29.8W LED luminaire, 35 total system watts, -20°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

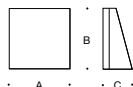
Options: Optional integral emergency battery pack available (please specify 3243LED/EMPK). Battery will operate the fixture at 62% of full light output for a minimum of 90 minutes. Ambient temperature must not go below -20°C and must not exceed 50°C. Specify EMPK and 120V or 277V operating voltage.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 8.4 lbs.

Luminaire Lumens: 4018



	Lamp	A	B	C
33243	29.8W LED	11	11	5 3/8

Type:
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



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American Beacon Flagpole Light

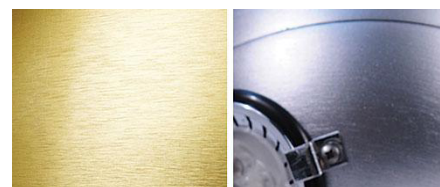
[Cylinder Lights](#)[Solar Light](#)[American Beacon Light](#)[+ Optional Features](#)[+ Download Specification Drawings](#)

Shining Light On Old Glory!

The “American Beacon” is a flagpole system uniting the patented Beacon Down Light with the industry’s oldest and most recognized name in aluminum flagpole manufacturing.

Specially engineered to provide the traditional look of standard truck and ornament flagpole design, the American Beacon provides the industry’s only aluminum flagpole and down lighting system combining a Lifetime Flagpole Shaft Warranty with an International Dark-Sky Association’s Dark-Sky Certified down light.

Any American Flagpole product up to 45’ can be provided with an American Beacon package!



Available in Gold and Satin Finish



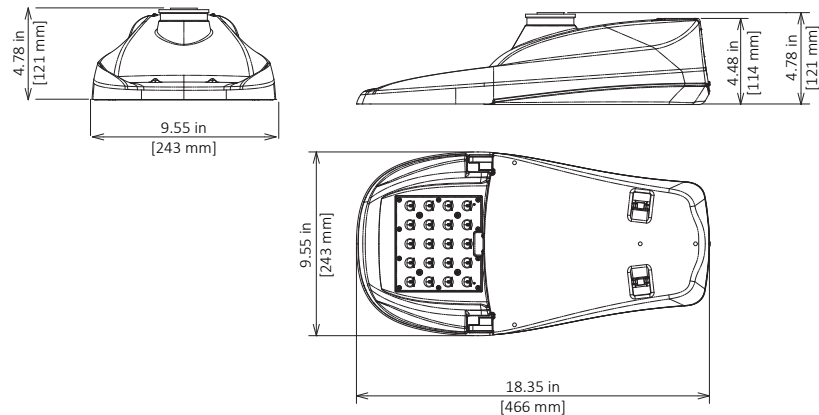
GreenCobra™ Jr. LED Street Light

GCJ H-Series Specification Data Sheet

Project
Type
Catalog No.

Luminaire Data

Weight 7 lbs [3.2 kg]
EPA 0.39 ft²



Ordering Information

Sample Catalog No. GCJ1 20H MV NW 2R GY 580

Product	LED Code	Voltage	Color Temperature	Distribution	Finish ¹	GCJ0 Drive Current Code ²	Options
GCJ0	15H	MV 120-277V HV 347-480V	WW 3000K NW 4000K CW 5000K	2R Type 2 3 Type 3 4 Type 4 5 Type 5	GY Gray DB Dark Bronze BK Black	300	FDC ³ Fixed Drive Current
						390	FFA ⁴ Full Field Adjustability
						490	LPCR Less Photocontrol Receptacle
						590	PCR7 ⁵ ANSI 7-wire Photo-control Receptacle
						700	PCR7-CR ⁶ Control Ready 7-wire PC Receptacle
GCJ1	20H					GCJ1 Drive Current Code ²	WL Utility Wattage Label 4B 4-Bolt Mounting Bracket RWG Rubber Wildlife Guard SWTB Straight Wire Terminal Block BBL Bubble Level CF ⁷ Coastal Paint Finish
						350	
						450	
						530	
						580	
GCJ2	20H					GCJ2 Drive Current Code ²	
						700	
						830	
						900	
						1A	

Notes:

- Gray, Black, and Dark Bronze standard. Consult factory for other finishes.
- Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
- Non-field adjustable, fixed drive current. Specify required drive current code. Not available with PCR7-CR option.
- The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
- Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
- Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If a lower drive current is required, consult factory.
- Specify the CF Option for coastal installation. See warranty for details.
- Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire.
- Flush mounted cul-de-sac shield. Shield cuts light off at 1/2 mounting height behind luminaire and 1-1/2 mounting height on either side of luminaire.
- Flush mounted front side shield cuts light off at approximately one mounting height in front of luminaire (street side).
- Specify Color (GY, DB, BK)
- Specify MV (120-277V) or HV (347-480V).

Accessories*

HSSGCJ ⁸	House Side Shield, Snap-On*
CSSGCJ ⁹	Cul-De-Sac Side Shield, Snap-On*
FSSGCJ ¹⁰	Front Side Shield, Snap-On*
SPB ¹¹	Square Pole Horizontal Arm Bracket
RPB ¹¹	Round Pole Horizontal Arm Bracket
PTB ¹¹	Pole Top Tenon Horizontal Arm Bracket
PTB2 ¹¹	Pole Top Tenon Horizontal Arm Bracket (2@180°)
WB ¹¹	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
LLPC ¹²	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSS, CSS, and FSS specify as option in luminaire catalog number.





GreenCobra™ Jr. LED Street Light

GCI H-Series Specification Data Sheet

Luminaire Specifications

Housing

Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket is available. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from $\pm 5^\circ$ in 2.5° steps. Electrical components are accessed without tools via a high-strength, non-conductive polycarbonate door with quick-release latches. Polycarbonate material meets UL 746C for outdoor usage. Available rubber wildlife guard (RWG option) conforms to mast arm with no gaps.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21 ($L_{90} \geq 100k$ hours). LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability

LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max or 1A max) is desired. The FFA option is not DLC qualified.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems

Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4, or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, $U=0$). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. Both shields are field installable without tools.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacles is available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C . Assembled in the U.S.A.

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components.

Vandal Resistance

Housing and optics rated to IK10

Standards

Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598



GreenCobra™ Jr. LED Street Light GCJ H-Series Specification Data Sheet

Performance Data: 3000K (WW)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)
GCJ0	15H	300 ²	15	1810	121
		390 ²	19	2280	120
		490 ³	24	2840	118
		590	30	3410	114
		700	35	3910	112
GCJ1	20H	350 ³	25	3040	122
		450	29	3470	120
		530	34	3980	117
		580	39	4470	115
		700	46	5130	112
GCJ2	20H	700	45	5020	112
		830	54	5780	107
		900	58	6120	106
		1A	68	6960	102

Notes:

1 Nominal lumens. Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.

2 DLC Approved only at 120VAC.

3 DLC Approved at 120-240VAC.

Performance Data: 4000K (NW) and 5000K (CW)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)
GCJ0	15H	300 ²	15	2000	133
		390 ²	19	2490	131
		490 ³	24	3070	128
		590	30	3650	122
		700	35	4180	119
GCJ1	20H	350 ³	25	3240	130
		450	29	3720	128
		530	34	4320	127
		580	39	4850	124
		700	46	5510	120
GCJ2	20H	700	45	5430	121
		830	54	6210	115
		900	58	6630	114
		1A	68	7430	109

Notes:

1 Nominal lumens. Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.

2 DLC Approved only at 120VAC.

3 DLC Approved at 120-240VAC.



GreenCobra™ Jr. LED Street Light GCJ H-Series Specification Data Sheet

BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product & LED Code	Drive Current Code	Type 2R	Type 3	Type 4	Type 5
		BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCJ0 15H	300	B0 U0 G0	B1 U0 G1	B1 U0 G1	B1 U0 G0
	390	B1 U0 G0	B1 U0 G1	B1 U0 G1	B1 U0 G0
	490	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	590	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
GCJ1 20H	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	450	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	580	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B2 U0 G1	B2 U0 G1	B3 U0 G1
GCJ2 20H	700	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	830	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
	900	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
	1A	B1 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1

BUG Ratings: 4000K (NW) and 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

Product & LED Code	Drive Current Code	Type 2R	Type 3	Type 4	Type 5
		BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCJ0 15H	300	B1 U0 G0	B1 U0 G1	B1 U0 G1	B1 U0 G0
	390	B1 U0 G0	B1 U0 G1	B1 U0 G1	B1 U0 G0
	490	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	590	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
GCJ1 20H	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	450	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	580	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B1 U0 G1	B2 U0 G1	B2 U0 G1	B3 U0 G1
GCJ2 20H	700	B1 U0 G1	B2 U0 G1	B2 U0 G1	B3 U0 G1
	830	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
	900	B1 U0 G1	B2 U0 G2	B2 U0 G2	B3 U0 G1
	1A	B1 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1

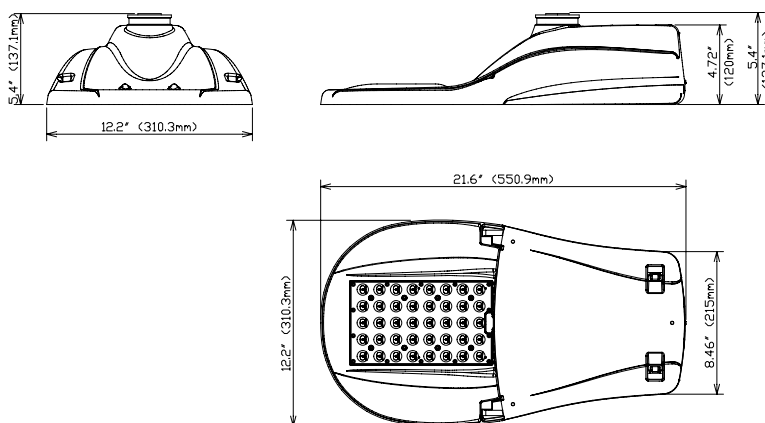


Project
Type
Catalog No.

GreenCobra™ Midsize LED Street Light GCM H-Series Specification Data Sheet

Luminaire Data

Weight 10 lbs [4.6 kg]
EPA 0.44 ft²



Ordering Information

Sample Catalog No. GCM2-30H-MV-NW-2R-GY-700-PCR7-WL

Product	LED Code	Voltage	Color Temperature	Distribution	Finish ¹	30H Drive Current Code ²	Options
GCM2	30H	MV 120-277V HV 347-480V	WW 3000K NW 4000K CW 5000K	2S Type 2 Short 2R Type 2 Medium 3R Type 3 Medium 4 Type 4 5 Type 5	GY Gray DB Dark Bronze BK Black	530 610 700 850 1A	FDC ³ Fixed Drive Current LPCR Less Photocontrol Receptacle PCR7 ⁴ ANSI 7-wire Photo-control Receptacle PCR7-CR ⁵ Control Ready 7-wire PC Receptacle
GCM2	40H					40H Drive Current Code ² 575 700 850 950 1A	WL Utility Wattage Label 4B 4-Bolt Mounting Bracket RWG Rubber Wildlife Guard SWTB Straight Wire Terminal Block BBL Bubble Level CF ⁶ Coastal Paint Finish

Notes:

- 1 Gray, Black, and Dark Bronze standard. Consult factory for other finishes.
- 2 Specified drive current code is the factory set drive current. Field adjustable current selector enables fixture to be changed in the field to adjust light output for local conditions (not available with Fixed Drive Current (FDC) or PCR7-CR option). Consult factory if wattage limits require a special drive current.
- 3 Non-field adjustable, fixed drive current. Specify required drive current. Not available with PCR7-CR option.
- 4 Includes current selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.
- 5 Control-ready wired at factory for wireless none dimming (node by others). Current selector not included in the fixture.
- 6 Specify the CF Option for coastal installation. See warranty for details.
- 7 Flush mounted house side shield. Shield cuts light off at 1/2 mounting height behind luminaire.
- 8 Flush mounted cul-de-sac shield. Shield cuts light off at 1/2 mounting height behind luminaire and 1-1/2 mounting height on either side of luminaire.
- 9 Flush mounted front side shield cuts light off at approximately one mounting height in front of luminaire (street side).
- 10 Specify Color (GY, DB, BK)
- 11 Specify MV (120-277V) or HV (347V-480V)

Accessories*

HSSGCM ⁷	House Side Shield, Snap-On*
CSSGCM ⁸	Cul-De-Sac Side Shield, Snap-On*
FSSGCM ⁹	Front Side Shield, Snap-On*
SPB ¹⁰	Square Pole Horizontal Arm Bracket
RPB ¹⁰	Round Pole Horizontal Arm Bracket
PTB ¹⁰	Pole Top Tenon Horizontal Arm Bracket
PTB2 ¹⁰	Pole Top Tenon Horizontal Arm Bracket (2@180°)
WB ¹⁰	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
LLPC ¹¹	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

*Accessories are ordered separately and not to be included in the catalog number. For factory installed HSS, CSS, and FSS consult factory.





GreenCobra™ Midsize LED Street Light GCM H-Series Specification Data Sheet

Luminaire Specifications

Housing

Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket is available. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Mounting has leveling adjustment from $\pm 5^\circ$ in 2.5° steps. Electrical components are accessed without tools via a high-strength, non-conductive polycarbonate door with quick-release latches. Polycarbonate material meets UL 746C for outdoor usage. Available rubber wildlife guard (RWG option) conforms to mast arm with no gaps.

Light Emitting Diodes

High-flux/High-power white LEDs produce a minimum of 90% of initial intensity over 75,000 hours of life based on IES TM-21 (L90 \geq 75k hours). LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability

LED drive current can be changed in the field to adjust light output for local conditions (not available with Fixed Drive Current (FDC) or PCR7-CR option). The specified drive current code will be the factory set drive current. Field adjustments can be made with the current selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems

Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4, or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Front side shield cuts light off at approximately one mounting height in front of the luminaire (street side). Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. All shields are field installable without tools.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacle is available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components.

Vandal Resistance

Housing and optics rated to IK10

Standards

Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598



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Performance Data: 3000K (WW)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Field Adjustable Output Range
GCM2	30H	530	48	5770	120	↑ ↓
		610	58	6700	116	
		700	68	7620	112	
		850	82	8800	107	
		1A	101	10480	104	
	40H	575	73	8780	120	↑ ↓
		700	88	10230	116	
		850	107	11960	112	
		950	121	13040	108	
		1A	135	14080	104	

Notes:

1 Nominal lumens. Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.

Performance Data: 4000K (NW) and 5000K (CW)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Drive Current Code	System Wattage (W)	Delivered Lumens (Lm) ¹	Efficacy (Lm/W)	Field Adjustable Output Range
GCM2	30H	530	48	6330	132	↑ ↓
		610	58	7440	128	
		700	68	8550	126	
		850	82	9830	120	
		1A	101	11720	116	
	40H	575	73	9590	131	↑ ↓
		700	88	11260	128	
		850	107	13270	124	
		950	121	14390	119	
		1A	135	15430	114	

Notes:

1 Nominal lumens. Normal tolerance $\pm 10\%$ due to factors including distribution type, LED bin variance, and ambient temperatures.



GreenCobra™ Midsize LED Street Light GCM H-Series Specification Data Sheet

BUG Ratings

3000K (WW)

			Type 2S	Type 2R	Type 3R	Type 4	Type 5
Product	LED Code	Drive Current Code	BUG Rating	BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCM2	30H	530	B2 U0 G1	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
		610	B2 U0 G1	B1 U0 G1	B2 U0 G2	B2 U0 G2	B3 U0 G1
		700	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
		850	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		1A	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	40H	575	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		850	B2 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B3 U0 G2
		950	B3 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2
		1A	B2 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2

4000K (NW)

			Type 2S	Type 2R	Type 3R	Type 4	Type 5
Product	LED Code	Drive Current Code	BUG Rating	BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCM2	30H	530	B2 U0 G1	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
		610	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
		700	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		850	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		1A	B3 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2	B3 U0 G2
	40H	575	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		700	B2 U0 G2	B2 U0 G2	B3 U0 G3	B2 U0 G2	B3 U0 G2
		850	B3 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2
		950	B3 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2
		1A	B3 U0 G2	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

5000K (CW)

			Type 2S	Type 2R	Type 3R	Type 4	Type 5
Product	LED Code	Drive Current Code	BUG Rating	BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCM2	30H	530	B2 U0 G1	B1 U0 G1	B2 U0 G2	B2 U0 G1	B3 U0 G1
		610	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
		700	B2 U0 G1	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		850	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		1A	B2 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B3 U0 G2
	40H	575	B2 U0 G2	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
		700	B2 U0 G2	B2 U0 G2	B3 U0 G3	B2 U0 G2	B3 U0 G2
		850	B3 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2
		950	B3 U0 G2	B2 U0 G2	B3 U0 G3	B3 U0 G2	B4 U0 G2
		1A	B3 U0 G2	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2