



KBC8 LED

LED Specification Bollard



Catalog
Number

Notes

Type

B1

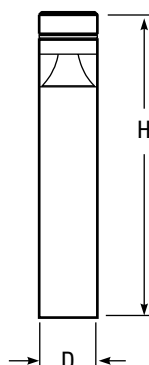
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Specifications

8" Round
(20.3 cm)

Height: 42"
(106.7 cm)

**Weight
(max):** 27lbs
(12.25 kg)



Introduction

The KBC8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBC8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: KBC8 LED 16C 700 40K SYM MVOLT DDBXD

KBC8 LED									
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)	
KBC8 LED	Asymmetric 12C 12 LEDs ¹	350 350 mA	30K 3000 K	ASY Asymmetric ¹ SYM Symmetric ²	MVOLT ⁵ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁴	Shipped installed PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup, CA Title 20 Noncompliant ⁶	Shipped installed SF Single fuse (120, 277, 347V) ^{4,7} DF Double fuse (208, 240V) ^{4,7} H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts (3 bolt base) L/AB4 4 bolt retrofit base without anchor bolts ⁸	DWHXD	White
		450 450 mA ^{3,4}	40K 4000 K					DNAXD	Natural aluminum
	Symmetric 16C 16 LEDs ²	530 530 mA	50K 5000 K					DDBXD	Dark bronze
		700 700 mA	AMBPC Amber phosphor converted AMBLW Amber limited wavelength ^{3,4}					DBLXD	Black
								DDBTXD	Textured dark bronze
								DBLBXD	Textured black
								DNATXD	Textured natural aluminum
								DWHGXD	Textured white

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBC8 LED⁸

NOTES

- Only available in the 12C, ASY version.
- Only available in the 16C, SYM version.
- Only available with 450 AMBLW version.
- Not available with ELCW.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- MRAB U not available with L/AB4 option.



Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric 3 Engines (12 LEDs)	350	16	641	40	1	1	1	809	51	1	1	1	870	54	1	1	1					
	530	22	947	43	1	1	1	1,191	54	1	1	1	1,282	58	1	1	1					
	700	31	1,214	40	1	1	1	1,527	51	1	1	1	1,646	55	1	1	1					
	Amber 450	16																324	20	0	1	0
Symmetric 4 Engines (16 LEDs)	350	20	888	44	1	0	0	1,116	56	1	0	0	1,203	60	1	0	0					
	530	28	1,254	45	1	0	0	1,598	57	1	0	1	1,719	61	1	0	1					
	700	39	1,608	41	1	0	1	2,022	52	1	0	1	2,180	56	2	0	1					
	Amber 450	20																374	19	0	0	0

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

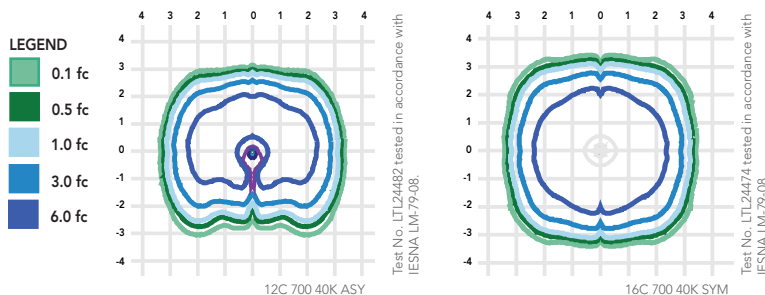
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KBC8 Bollard homepage](#).

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3/4" bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

Five-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. Specifications subject to change without notice.



Catalog Number
Notes
Type C1

FEATURES & SPECIFICATIONS

INTENDED USE — The 6" Wafer™ LED Downlight with Switchable White provides high-quality light output and efficiency featuring a switch for easy color temperature adjustment - while eliminating the need for recessed housings. The innovative, slim design allows for easy retrofit, remodel or new construction installation from below the ceiling. The LED module maintains at least 70% light output for 50,000 hours. The Wafer LED downlight is wet location listed – making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multifamily applications.

CONSTRUCTION — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. FT4 plenum rated cable connector to connect from module to remote driver box. IC rated driver with convenience and value of two remote selectable color temperature options, each with a setting choice to chose either 2700K, 3000K, and 3500K or 3000K, 4000K, and 5000K using the switch. The isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

PATENT PENDING.

INSTALLATION — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 6 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications. 2" plenum space required for installation of the remote driver box.

OPTICS — Edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space.

ELECTRICAL — Connect directly to 120V Class-2 (CAN ICES-005 (B) / NMB-005 (B)) LED driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% with most standard incandescent dimers (see list of approved dimmers). Replaces 75W incandescent for 850L and 100W incandescent for 1150 lumens.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location. Air Tight certified in accordance with ASTM E283-2004. NOM Certified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

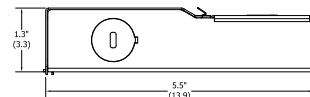
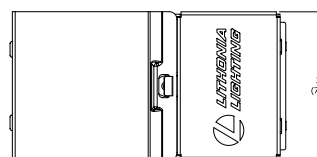
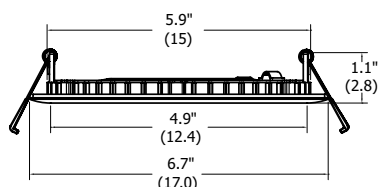
www.acuitybrands.com/support/warranty/terms-and-conditions

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.

Specifications subject to change without notice.

Specifications	
Aperture:	4.9 (12.4)
Ceiling opening:	6 (15.2)
Overlap trim:	6.7 (17)
Height:	1.1 (2.8)



Wafer LED Recessed Downlight

WF6

6" LED Switchable White Color Temperature

IC/Non-IC
New Construction/Remodel



ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: WF6 LED 30K40K50K 90CRI MW

WF6				
Series	Lamp	CCT/W/Lumens ¹	CRI	Finish
WF6 6" wafer-thin LED downlight	LED LED	27K30K35K 2700K/14W/1040L 3000K/14W/1150L 3500K/14W/1110L 30K40K50K 3000K/14W/1090L 4000K/14W/1190L 5000K/14W/1120L	90CRI 90CRI	MW Matte White MB Matte Black BN Brush Nickel ORB Oil Rubbed Bronze

Notes

1 Total system delivered lumens.

See Accessories next page.

WF6 Switchable White 6" LED Wafer Module

Accessories: Order as separate catalog number.

WF6 PAN R12	6" new construction pan, retail pack of 12
WF8643 Pan U	Universal new construction pan
WFJB U	Remodel joist bar
WFEXC6 SW3PIN FT4	3-Pin 6ft Cable
WFEXC10 SW3PIN FT4	3-Pin 10ft Cable
WFEXC20 SW3PIN FT4	3-Pin 20ft Cable
WF6GR MW JZ	6" round oversized trim ring



WF6 PAN R12 6" new construction pan, retail pack of 12



WF8643 Universal New Construction Pan



Remodel Joist Bar

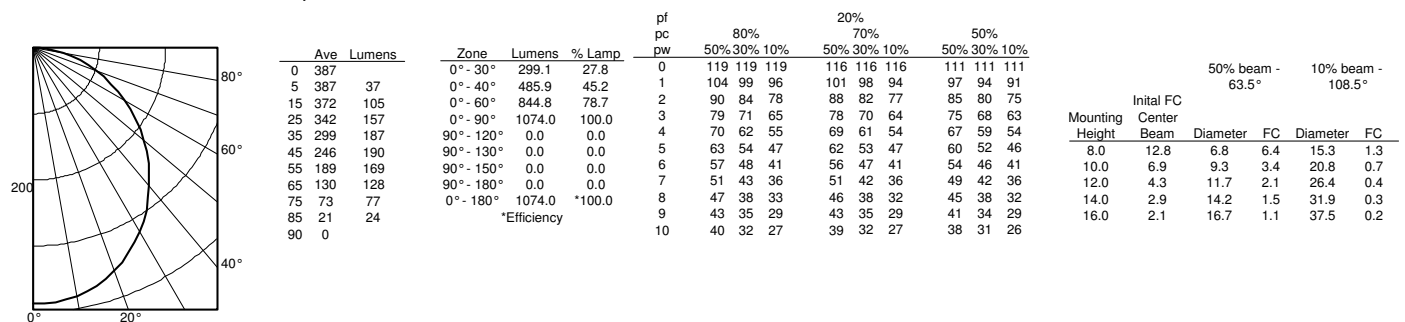


WFEXC6 Cable

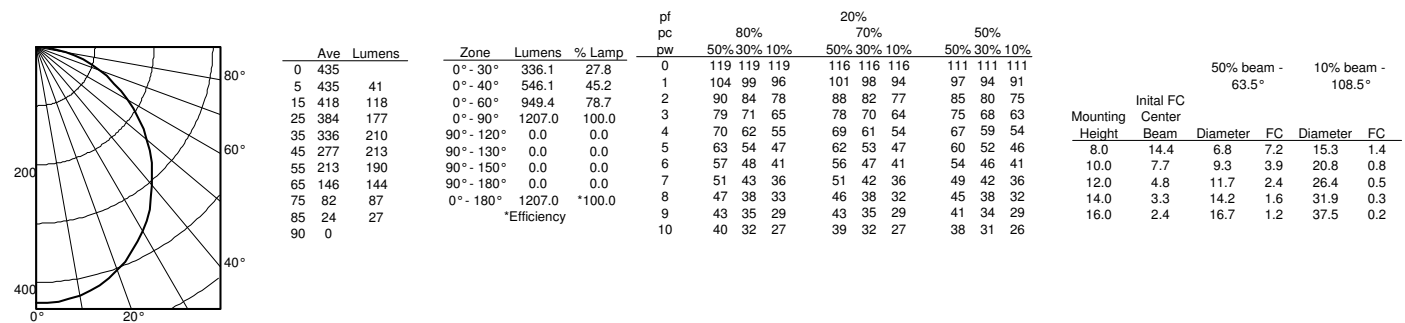
PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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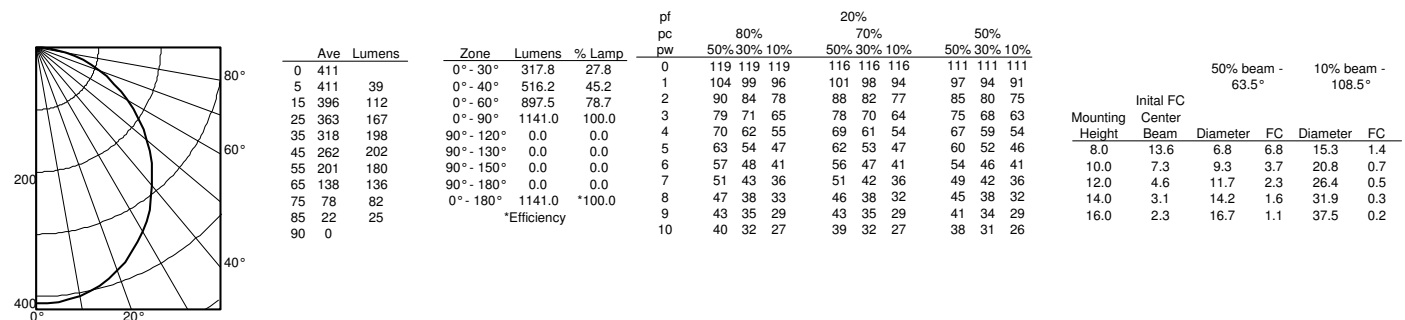
WF6 LED 27K30K35K, 2700K LEDs, input watts: 14, delivered lumens: 1074, LM/W=77, test no. ISF 36826P7



WF6 LED 27K30K35K, 3000K LEDs, input watts: 13, delivered lumens: 1207, LM/W=93, test no. ISF 36826P8



WF6 LED 27K30K35K, 3500K LEDs, input watts: 14, delivered lumens: 1141, LM/W=82, test no. ISF 36826P9



WF6 Switchable White 6" LED Wafer Module

ENERGY DATA

WF6 LED 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	1070	1150	1110
CRI	90	90	90
Rated wattage	14.1	13.4	13.9
Lu/Watts	75.9	85.8	79.9
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

WF6 LED 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	1090	1190	1120
CRI	90	90	90
Rated wattage	13.8	13.4	13.9
Lu/Watts	79.0	88.8	80.6
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

LIGHTING PERFORMANCE DATA



HIGH LUMEN

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K soft white blanc doux	
1070 lumens 76 lumens per watt	
3000K warm white blanc chaud	
1150 lumens 82 lumens per watt	
3500K neutral white blanc neutre	
1110 lumens 79 lumens per watt	
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K warm white blanc chaud	
1090 lumens 78 lumens per watt	
4000K cool white blanc froid	
1190 lumens 85 lumens per watt	
5000K daylight blanc neutre	
1120 lumens 80 lumens per watt	
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90



D-Series Size 0

Legacy LED Area Luminaire



Catalog
Number

Notes

Type

PL1/PL2

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

Specifications

EPA: 0.95 ft²
(.09 m²)

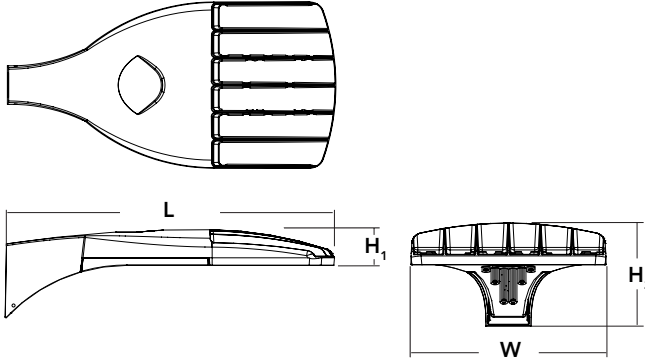
Length: 26"
(66.0 cm)

Width: 13"
(33.0 cm)

Height₁: 3"
(7.62 cm)

Height₂: 7"
(17.8 cm)

Weight (max): 16 lbs
(7.25 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD G1

DSX0 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics	30K 3000 K	T1S Type I short (Automotive)	MVOLT (120V-277V) ^{5,6}	Shipped included
	P1 P5	40K 4000 K	T2S Type II short	XVOLT (277V-480V) ^{7,8,9}	SPA Square pole mounting
	P2 P6	50K 5000 K	T2M Type II medium	120 ⁶	RPA Round pole mounting ¹⁰
	P3 P7 ¹		T3S Type III short	208 ⁶	WBA Wall bracket ³
	P4¹		T3M Type III medium	240 ⁶	SPUMBA Square pole universal mounting adaptor ¹¹
	Rotated optics		T4M Type IV medium	277 ⁶	RPUMBA Round pole universal mounting adaptor ¹¹
	P10 ² P12 ²		TFTM Forward throw medium	347 ⁶	Shipped separately
	P11 ² P13 ^{1,2}		T5VS Type V very short ³	480 ⁶	KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (required)	Generation (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ^{13,14} PIRHN Network, high/low motion/ambient sensor ¹⁵ PER NEMA twist-lock receptacle only (control ordered separate) ¹⁶ PER5 Five-pin receptacle only (control ordered separate) ^{16,17} PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{16,17} DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹⁸	Shipped installed HS House-side shield ²² SF Single fuse (120, 277, 347V) ⁶ DF Double fuse (208, 240, 480V) ⁶ L90 Left rotated optics ² R90 Right rotated optics ² DDL Diffused drop lens ²² HA 50°C ambient operations ¹ Shipped separately BS Bird spikes ²³ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white	G1 Generation 1



COMMERCIAL OUTDOOR

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DSX0 LED G1
 Rev. 11/28/23
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Ordering Information

Accessories

Ordered and shipped separately.

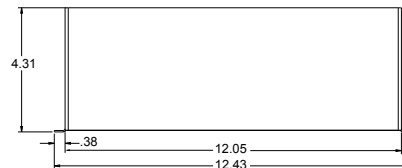
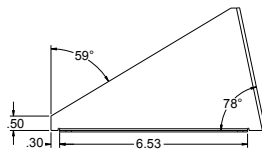
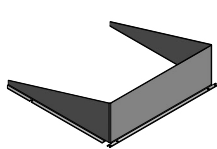
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁴
DSHORT SBK U	Shorting cap ²⁴
DSX0HS 20C G1 U	House-side shield for P1,P2,P3 and P4 ²²
DSX0HS 30C G1 U	House-side shield for P10,P11,P12 and P13 ²²
DSX0HS 40C G1 U	House-side shield for P5,P6 and P7 ²²
DSX0DDL G1 U	Diffused drop lens (polycarbonate) ²²
PUMBA DDBXD G1 U*	Square and round pole universal mounting bracket adaptor (specify finish) ²⁵
KMA8 DDBXD U	Master arm mounting bracket adaptor (specify finish) ¹²
DSX0EGS (FINISH) G1 U	External glare shield

For more control options, visit [DTL](#) and [ROAM](#) online.
Link to [nLight Air 2](#)

NOTES

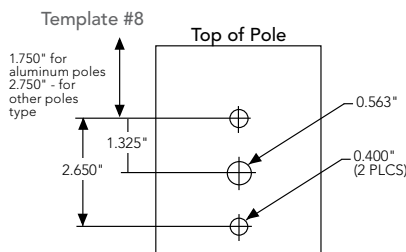
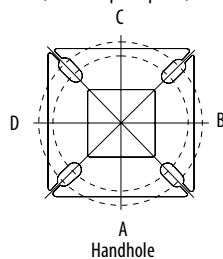
- HA not available with P4, P7, and P13.
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- XVOLT only suitable for use with P4, P7 and P13.
- XVOLT operates with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA mounting. KMA8 must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- 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.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Reference Controls Options table on page 4.
- Reference Motion Sensor Default Table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

EGS – External Glare Shield



Drilling

HANDHOLE ORIENTATION (from top of pole)



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

DSX0 Area Luminaire - EPA

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

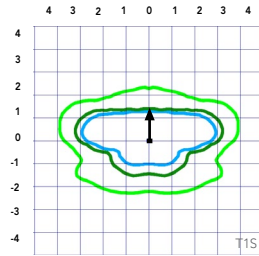
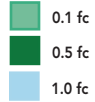
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 LED	0.950	1.900	1.830	2.850	2.850	3.544

Photometric Diagrams

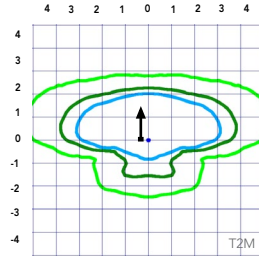
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

Isofootcandle plots for the DSX0 LED P6 40K G1. Distances are in units of mounting height (20').

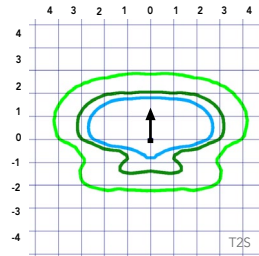
LEGEND



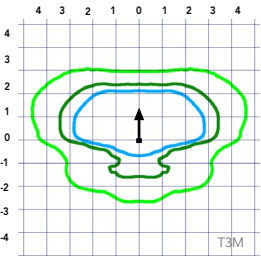
Test No.



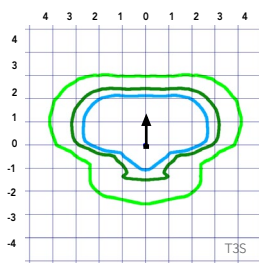
Test No.



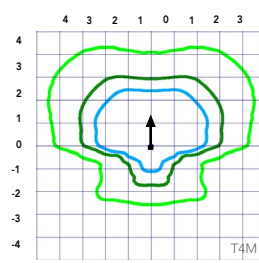
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



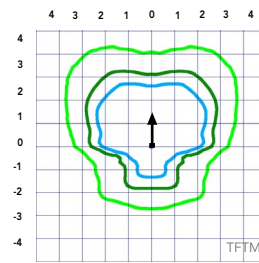
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



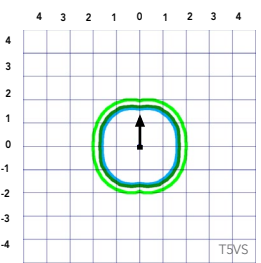
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



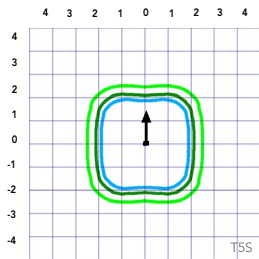
Test No.



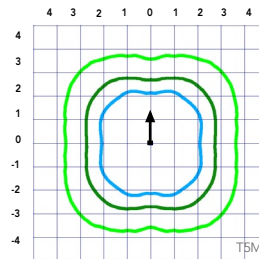
Test No.



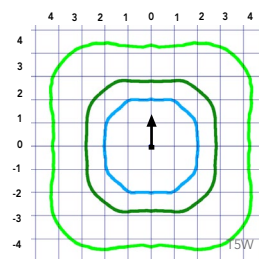
Test No.



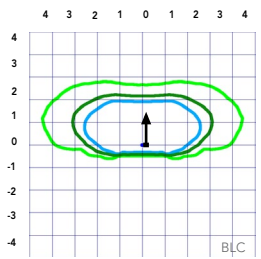
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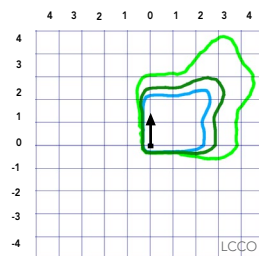
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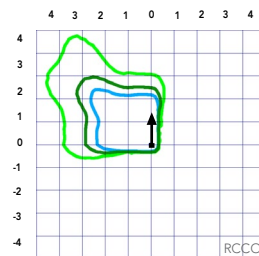
Test No. LTL23451P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.

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	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

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 when motion sensor is used as dusk to dawn control.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	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

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T2M	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T3S	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T3M	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	124
				T2M	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	125
				T3S	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T3M	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				TSVS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				TSS	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				TSM	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				TSW	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T2M	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T3S	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T3M	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T2M	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T3S	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T3M	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				TSVS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				TSS	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				TSM	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				TSW	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
				RCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T2M	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T3S	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T3M	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T2M	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T3S	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T3M	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T2M	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T3S	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T3M	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
				RCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T2M	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T3S	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T3M	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T2M	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T3S	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T3M	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				TSVS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				TSS	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				TSM	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				TSW	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T2M	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T3S	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T3M	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T2M	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T3S	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T3M	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				TSVS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				TSS	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				TSM	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				TSW	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
				RCCO	5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C to 50°C ambient with HA option. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

Specifications subject to change without notice.



FEATURES & SPECIFICATIONS

CONSTRUCTION —

Pole Shaft: Weldable-grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), or 50,000 psi (7-gauge). Uniform wall thickness of .125" or .188". Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches. Poles have mastic coating on embedded depth +6" above grade level.

Pole Top: Options include 4" tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable top cap.

Handhole: A reinforced, 3" x 5" rectangular handhole with grounding provision is provided at 18" above grade. Every handhole includes a cover and cover attachment hardware.

HARDWARE — Fasteners are high-strength galvanized, zinc-plated or stainless steel.

FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

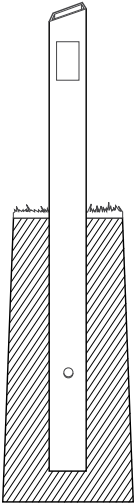
GROUNDING — Provision located immediately inside handhole rim. Grounding hardware is not included (provided by others).

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

INSTALLATION — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type



Direct Burial

SSSDB

SQUARE STRAIGHT STEEL



SSSDB Square Straight Steel Direct Burial Poles

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: SSSDB 20 5C DM19 DDBXD

SSSDB					
Series	Nominal fixture mounting height ¹	Nominal shaft base size/wall thickness ²	Mounting ³	Options	Finish
SSSDB	10'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C 4" 11g (0.120") 4G 4" 7g (0.179") 5C 5" 11g (0.120") 5G 5" 7g (0.179") 6G 6" 7g (0.179") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) CSX/DSX/RSX/AERIS™/OMERO™/KAX Drill mounting ⁴ DM19AS 1 at 90° DM28AS 2 at 180° DM28AS PL 2 at 180° with one side plugged DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° RAD drill mounting ⁴ DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM39RAD 3 at 90° DM49RAD 4 at 90° ESX Drill mounting ⁴ DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90°	Shipped installed VD Vibration damper ⁵ HAXy Horizontal arm bracket (1 fixture) ^{6,7} FDLxy Festoon outlet less electrical ^{6,8} CPL12/xy 1/2" coupling ⁶ CPL34/xy 3/4" coupling ⁶ CPL1/xy 1" coupling ⁶ NPL12/xy 1/2" threaded nipple ⁶ NPL34/xy 3/4" threaded nipple ⁶ NPL1/xy 1" threaded nipple ⁶ EHHxy Extra handhole ^{6,9} STLHHC Steel handhole cover (standard is plastic, finish is smooth) ¹⁰ IC Interior coating ¹¹ TP Tamper resistant handhole cover fasteners NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant ¹²	Super durable paint colors DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white Other finishes GALV Galvanized finish Architectural colors and special finishes ¹³ [PAINT] GALV Paint over galvanizing VP30 3 year warranty extension VP53 5 year warranty extension RAL#### Use designated Lithonia Lighting nomenclature in brochure Custom color Nomenclature assigned through Customer Care "Custom Color Process"

- NOTES:
1. Pole height should be specified for nominal mounting height of fixture. Pole will be longer for embedment depth.

2. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.120" | "G" - 0.179".

3. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify as drilling option/tenon option. The combination includes a required extra handhole.
Example: DM28/T20.

4. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.

5. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height.
Example: Pole height is 25ft, A provision cannot be placed above 16ft.

6. Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
Example: 5ft = 5 and 20ft 3in = 20-3
For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C

7. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAXxy.
Example: HA20BD.


8. FDL does not come with GFCL outlet or handhole cover. These must be supplied by contractor or electrician.

9. Combination of tenon-top and drill mount includes extra handhole. EHH includes cover.

10. Plastic hand hole cover comes standard with all poles. Items ship separately. Additional parts can be ordered as replacements.

11. Provides enhanced corrosion resistance. N/A with GALV.

12. Use when mill certifications are required.

13. Must be quoted through AQD. Finishes do not require RFA. RAL colors available are shown in "Architectural Colors brochure". Lead times may be extended up to 2 weeks due to paint procurement.
- | Accessories: Order as separate catalog number. | |
|--|--|
| PL DT20 | Plugs for ESX drillings |
| PL DT8 | Plugs for DMxxAS drillings |
| FVD xxFT | Field installed vibration damper (snake style) |
- LITHONIA LIGHTING

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 1-800-705-SERV (7378) www.lithonia.com

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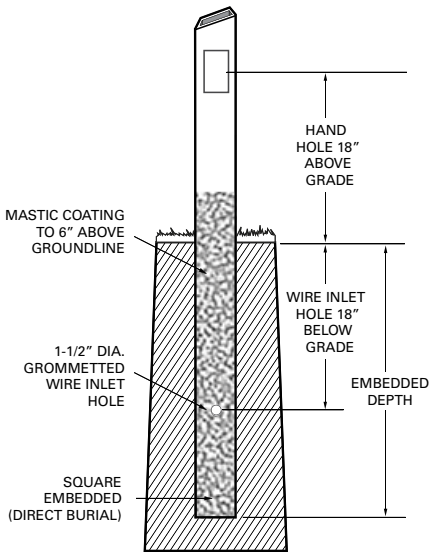
POLE-SSSDB

SSSDB Square Straight Steel Direct Burial Poles

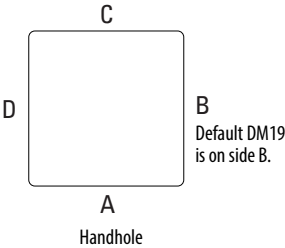
TECHNICAL INFORMATION— EPA (ft²) with 1.3 gust												
Catalog number	Nominal mounting height above grade (ft.)	Pole shaft size (in. x ft.)	Embedment depth (ft.)	Wall thickness (in.)	Gauge	80 MPH	Max. fixture weight (lbs.)	90 MPH	Max. fixture weight (lbs.)	100 MPH	Max. fixture weight (lbs.)	Approx. ship weight (lbs.)
SSSDB 10 4C	10	4 x 13	3	0.125	11	30.6	765	23.8	595	18.9	473	95
SSSDB 12 4C	12	4 x 16	4	0.125	11	24.4	610	18.8	470	14.8	370	110
SSSDB 14 4C	14	4 x 18	4	0.125	11	19.9	498	15.1	378	11.7	293	120
SSSDB 16 4C	16	4 x 20	4	0.125	11	15.9	398	11.8	295	8.9	223	130
SSSDB 18 4C	18	4 x 22	4	0.125	11	12.6	315	9.2	230	6.7	168	140
SSSDB 20 4C	20	4 x 24	4	0.125	11	9.6	240	6.7	167	4.5	150	150
SSSDB 20 4G	20	4 x 24	4	0.188	7	14.0	350	11.0	275	8.0	200	210
SSSDB 20 5C	20	5 x 24	4	0.125	11	17.7	443	12.7	343	9.4	235	195
SSSDB 20 5G	20	5 x 24	4	0.188	7	28.1	703	21.4	535	16.2	405	275
SSSDB 25 4G	25	4 x 30	5	0.188	7	10.8	270	7.7	188	5.4	135	255
SSSDB 25 5C	25	5 x 30	5	0.125	11	9.8	245	6.3	157	3.7	150	235
SSSDB 25 5G	25	5 x 30	5	0.188	7	18.5	463	13.3	333	9.5	238	370
SSSDB 30 5G	30	5 x 35	5	0.188	7	10.7	267	6.7	167	3.9	100	390
SSSDB 30 6G	30	6 x 35	5	0.188	7	19.0	475	13.2	330	9.0	225	530

NOTE: EPA values are based ASCE 7-93 wind map.

BASE DETAIL



HANDHOLE ORIENTATION



- IMPORTANT INSTALLATION NOTES:**
- **Do not** erect poles without having fixtures installed.
 - If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
 - Lithonia Lighting is not responsible for the foundation design.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

FEATURES & SPECIFICATIONS

INTENDED USE — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the [FEX](#) product family. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic Polycarbonate Compatibility table for suitable use.](#)

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. [Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.](#)

CONSTRUCTION — One-piece 5VA fiberglass housing with integral perimeter channel utilizing continuous poured-in-place NEMA 4X gasket. Approved for through wiring. Captive polymeric latches are standard. Stainless steel latches (#316) available as an option for food processing or more demanding applications.

Power connection is easily accomplished through pre-drilled holes.

OPTICS — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. A UV stabilized polycarbonate diffuser is available (.080" thick) in clear or frosted for additional impact strength where vandal protection is desired.

Expected service life of 60,000 hours at 80% lumen maintenance (L80); predicted life of more than 100,000 hours.

ELECTRICAL — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120-277 (MVOLT) and 347-480 (HVOLT) offered with 0-10 volt dimming, dims to 10%. Standard Luminaire Surge Protection Level: 6kV/3kA Surge Rated per ANSI C82.77-5-2015.

INSTALLATION — A pair of stainless steel surface mount brackets (SMB) are included (unless another mounting option is chosen) allowing for surface (ceiling) or suspension mount applications using included bail with aircraft cable or chain. Optional pair of dual pendant mount brackets (DPMB) are available for surface (ceiling) or suspension mount applications using either 3/8" threaded rod or included bail with aircraft cable or chain. Optional pair of angle mounting brackets (ANGBKT) for horizontal wall mount applications.

LISTINGS — CSA Certified to UL and C-UL Standards. Suitable for wet location. IP65, IP66, IP67 rated. NSF Splash Zone 2 and Non-Food Zone rated. NEMA 4X rated. Sensors maintain IP65 and IP66 only. See chart on page 5 for Ambient Temperatures.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

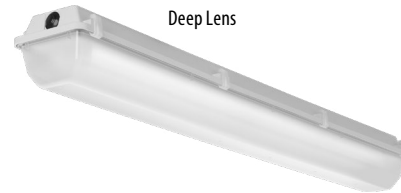
Specifications subject to change without notice.

Catalog Number	
Notes	
Type	SL

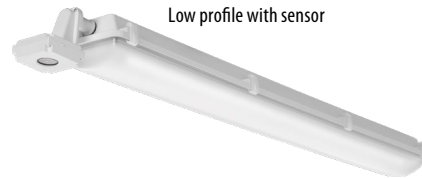
Low-Profile Enclosed and Gasketed Industrial

FEM LED

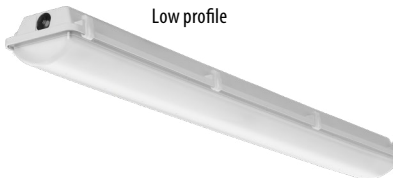
SURFACE/ SUSPENDED/WALL MOUNT



Deep Lens



Low profile with sensor



Low profile



Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
FEM L48 4000LM LPAFL MD MVOLT GZ10 40K 80CRI	FEM L48 4L MVOLT
FEM L48 4000LM LPAFL MD MVOLT GZ10 50K 80CRI	FEM L48 4L MVOLT 5K

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 marked by a [shaded background](#)*

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

*See ordering tree for details

FEM LED Low-Profile Enclosed and Gasketed



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: FEM L48 4000LM IMAFL WD MVOLT GZ10 40K 80CRI

Series	Length	Nominal Lumens	Diffuser	Distribution	Voltage	Driver	Color temperature	CRI
FEM	L24 24" ‡	2000LM 2,000 lumens 3000LM 3,000 lumens 4000LM 4,000 lumens 6000LM 6,000 lumens	IMAFL Acrylic, lineal ribbed frosted lens IMACD Acrylic, clear deep lens IMAFD Acrylic, deep frosted lens LPAFL Acrylic, low profile frosted lens LPACL Acrylic, low profile clear lens LPPCL Polycarbonate, low profile clear lens LPPFL Polycarbonate, low profile frosted lens	MD Medium WD Wide PGD Parking garage	MVOLT 120-277V HVOLT 347-480V ‡ 120 120V 277 277V 347 347V 480 480V	GZ10 0-10V dimming	30K 3000K 35K 3500K 40K 4000K 50K 5000K	80CRI 80 CRI 90CRI 90 CRI
	L48 48" ‡	3000LM 3,000 lumens 4000LM 4,000 lumens 6000LM 6,000 lumens 8000LM 8,000 lumens 10000LM 10,000 lumens 12000LM 12,000 lumens						
	L96 96" ‡	9000LM 9,000 lumens 12000LM 12,000 lumens 15000LM 15,000 lumens 18000LM 18,000 lumens 20000LM 20,000 lumens 24000LM 24,000 lumens						

Options		
Emergency:		
E10WMCP	EM Self-diagnostics battery pack, MVOLT, 10W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡	CPSB16YWL BH Brad Harrison Mini-Change® cordset with straight blade plug, 16 gauge, 3 conductors, 6ft, yellow ‡
BE6WCP	Cold Weather EM battery pack, 120/277V, 6W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡	CPSB16YWL12FTBH Brad Harrison Mini-Change® cordset with straight blade plug, 16 gauge, 3 conductors, 12ft, yellow ‡
BGTD	Generator transfer device	CRSB16YWL BH Brad Harrison Mini-Change® receptacle ‡
Other Options:		
ANGBKT	Angle bracket shipped with fixture ‡	CNP16WWL Cord only (no plug), 16 gauge, 3 conductors, white, 6ft, wet location ‡
BAA	Buy America(n) Act Compliant	CNP16WWL12FT Cord only (no plug), 16 gauge, 3 conductors, white, 6ft, wet location ‡
DPMB	Dual pendant mounting bracket ‡	CNP164CWWL Cord only (no plug), 16 gauge, 4 conductors, white, 6ft, wet location (for use when unswitched circuit is required for battery pack) ‡
SPD	Surge protection device, additional 10kV/6kA	
STSL	Stainless steel latches	
TRS	Tamper Resistant Torx® T10 screws	
WLF	Wet location fitting (two outboard, top (L24 - 20 inches off-center, L48 - 48 inches off-center, L96 - 95.7 inches off-center) ‡	
WLFEND	Wet location fitting (one end) ‡	
WLFEND2	Wet location fitting (both ends) ‡	
WLFMP	Wet location pendant monopoint ‡	
		Individual Controls: ‡
		SBOR10 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, ON/OFF occupancy (LINK) (formerly MSI10NWL)
		SBOR10 HL 3V 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, occupancy controlled dimming (bi-level) (LINK) (formerly MSI102L3VWL)
		SBOR10 P 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, ON/OFF photocell (LINK) (formerly MSI10NWL DSCNWL)
		nLight Wireless: ‡
		NLTAIR2 RSBOR10 nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' heights) (LINK)
		NLTAIR2 RIO nLight® Air Generation 2 enabled, fixture embedded network interface, 0-10V dimming output (LINK)

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 3. Options are sorted alphanumerically.

Accessories: Order as separate catalog number.	
MHCH 36	3 foot (36 inches) jack chain (pair)
MHHK120	10 foot (120 inches) single leg air craft cable (ships as pair)
MHHK120SS	10 foot (120 inches) single leg air craft cable, stainless steel (ships as pair)
RK1 T10BIT W/PIN U	Hex-base driver bit, Torx TX10, for tamper resistant screws with center reject pin
FEMDPMB	Dual pendant mounting bracket (ships as a pair) ‡
FEMANGBKT	Angle bracket (ships as pair) ‡
FEMSMB	Surface mount bracket (ships as pair) ‡

See Accessories and ordering restrictions on next page.

FEM LED Low-Profile Enclosed and Gasketed

‡ Option Value Ordering Restrictions	
Option value	Restriction
ANGBKT, FEMANGBKT	For horizontal wall mount applications. If mounted in an upward orientation, fixture will be damp location listed only.
BE6WCP	Utilizes Bodine BSL36 Cold-Pak emergency driver. Not available with L24 length. Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V, 480V, HVOLT.
CNP16WWL, CNP16WWL12FT	Not available with BE6WCP or E10WMCP.
CNP164CWWL	Available with BE6WCP or E10WMCP only. Not NEMA4X rated.
Cord Sets	Not NEMA4X rated.
CPSB16YWL BH, CPSB16YWL12FT BH	Not available with BE6WCP or E10WMCP.
CRSB16YWL BH	Not available with BE6WCP or E10WMCP.
E10WMCP	Utilizes Power Sentry, PS1055MCP battery pack. Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V, 480V, HVOLT.
DPMB, FEMDPMB	For surface (ceiling) or suspension mount applications using either 3/8" threaded rod or included bail with aircraft cable or chain.
FEMSMB	Ships standard with fixture (unless another mounting option is chosen). For surface (ceiling) or suspension mount applications using included bail with aircraft cable or chain.
HVOLT	When ordered with L24, available with 6000LM only. When ordered with L48, not available with 3000LM or 4000LM.
Individual Controls	Not NEMA4X rated. IP65 and IP66 rated.
L24	Not available with BE6WCP.
L48	Not available with WLFPM.
L96	Not available with WLFPM.
nLight® Wireless	Not NEMA4X rated. IP65 and IP66 rated.
WLF	If cord is ordered, cord will exit from the end of the fixture. Not NEMA4X rated.
WLFEND	If cord is ordered, cord will exit from the end of the fixture. Not NEMA4X rated. Available with cord or sensor option. Choose only one.
WLFEND2	Not available with sensor or cord options. Not NEMA4X rated.
WLFPM	Available only with L24. Not NEMA4X rated.

MOUNTING OPTIONS



DPMB Option or FEMDPMB Accessory
Material: 304 Stainless Steel
pictured less bail wire

FEM LED Low-Profile Enclosed and Gasketed

OPERATIONAL DATA (80 CRI*, MD**, MVOLT***)

Length	Package	Input Wattage	CCT	Frosted Lens [†] Lumens (LPW)				Clear Lens [†] Lumens (LPW)		
				IMAFI	IMAFD	LPAFL	LPPFL	IMACD	LPACL	LPPCL
L24	2000LM	13.4	30K	1962 (147)	2083 (156)	2076 (155)	1861 (139)	2112 (158)	2105 (158)	1890 (142)
			35K	2002 (150)	2126 (159)	2118 (159)	1899 (142)	2155 (161)	2147 (161)	1929 (144)
			40K	2099 (157)	2228 (167)	2220 (166)	1991 (149)	2259 (169)	2251 (169)	2022 (151)
			50K	2122 (159)	2252 (169)	2244 (168)	2013 (151)	2284 (171)	2276 (170)	2044 (153)
	3000LM	19.9	30K	2869 (144)	3046 (153)	3035 (153)	2721 (137)	3088 (155)	3077 (155)	2764 (139)
			35K	2927 (147)	3108 (156)	3096 (156)	2777 (140)	3151 (158)	3139 (158)	2820 (142)
			40K	3069 (154)	3258 (164)	3246 (163)	2911 (146)	3303 (166)	3291 (166)	2956 (149)
			50K	3102 (156)	3293 (166)	3281 (165)	2942 (148)	3339 (168)	3327 (167)	2988 (150)
	4000LM	26.0	30K	3676 (142)	3903 (150)	3889 (150)	3487 (134)	3957 (152)	3943 (152)	3541 (136)
			35K	3751 (145)	3982 (153)	3968 (153)	3558 (137)	4037 (156)	4023 (155)	3613 (139)
			40K	3932 (152)	4174 (161)	4159 (160)	3730 (144)	4232 (163)	4217 (162)	3788 (146)
			50K	3975 (153)	4219 (163)	4204 (162)	3770 (145)	4278 (165)	4263 (164)	3829 (148)
	6000LM	39.2	30K	5287 (135)	5613 (143)	5593 (143)	5015 (128)	5691 (145)	5671 (145)	5093 (130)
			35K	5395 (138)	5727 (146)	5707 (145)	5117 (130)	5806 (148)	5786 (147)	5196 (132)
			40K	5655 (144)	6004 (153)	5982 (153)	5364 (137)	6087 (155)	6065 (155)	5447 (139)
			50K	5717 (146)	6069 (155)	6047 (154)	5422 (138)	6153 (157)	6131 (156)	5506 (140)
L48	3000LM	18.0	30K	2689 (149)	2855 (158)	2844 (158)	2551 (141)	2894 (160)	2884 (160)	2590 (144)
			35K	2743 (152)	2912 (161)	2902 (161)	2602 (144)	2953 (164)	2942 (163)	2643 (146)
			40K	2876 (159)	3053 (169)	3042 (169)	2728 (151)	3095 (172)	3084 (171)	2770 (154)
			50K	2907 (161)	3086 (171)	3075 (170)	2758 (153)	3129 (173)	3118 (173)	2800 (155)
	4000LM	23.8	30K	3543 (149)	3762 (158)	3748 (157)	3361 (141)	3814 (160)	3800 (160)	3413 (143)
			35K	3615 (152)	3838 (161)	3824 (161)	3429 (144)	3891 (163)	3877 (163)	3482 (146)
			40K	3790 (159)	4023 (169)	4009 (168)	3595 (151)	4079 (171)	4064 (171)	3650 (153)
			50K	3831 (161)	4067 (171)	4052 (170)	3634 (153)	4123 (173)	4109 (173)	3690 (155)
	6000LM	37.8	30K	5284 (140)	5609 (149)	5589 (148)	5012 (133)	5687 (151)	5667 (150)	5090 (135)
			35K	5391 (143)	5723 (152)	5703 (151)	5114 (135)	5802 (154)	5782 (153)	5193 (138)
			40K	5651 (150)	6000 (159)	5978 (158)	5361 (142)	6083 (161)	6061 (161)	5444 (144)
			50K	5713 (151)	6065 (161)	6043 (160)	5419 (144)	6149 (163)	6127 (162)	5503 (146)
	8000LM	50.5	30K	6952 (138)	7380 (146)	7354 (146)	6594 (131)	7482 (148)	7456 (148)	6696 (133)
			35K	7093 (141)	7530 (149)	7503 (149)	6728 (133)	7634 (151)	7607 (151)	6832 (135)
			40K	7435 (147)	7894 (156)	7865 (156)	7053 (140)	8003 (159)	7975 (158)	7162 (142)
			50K	7516 (149)	7979 (158)	7950 (158)	7129 (141)	8090 (160)	8061 (160)	7240 (144)
	10000LM	62.0	30K	8646 (140)	9179 (148)	9146 (148)	8201 (132)	9306 (150)	9273 (150)	8328 (134)
			35K	8822 (142)	9365 (151)	9332 (151)	8368 (135)	9495 (153)	9461 (153)	8497 (137)
			40K	9248 (149)	9817 (158)	9782 (158)	8772 (142)	9953 (161)	9918 (160)	8908 (144)
			50K	9348 (151)	9924 (160)	9888 (160)	8867 (143)	10061 (162)	10026 (162)	9004 (145)
	12000LM	75.0	30K	10406 (139)	11047 (147)	11007 (147)	9871 (132)	11200 (149)	11160 (149)	10024 (134)
			35K	10617 (141)	11271 (150)	11231 (150)	10071 (134)	11427 (152)	11387 (152)	10227 (136)
			40K	11130 (148)	11816 (157)	11773 (157)	10557 (141)	11979 (160)	11937 (159)	10721 (143)
			50K	11251 (150)	11944 (159)	11901 (159)	10672 (142)	12109 (161)	12066 (161)	10837 (144)
L96	9000LM	53.4	30K	7962 (149)	8452 (158)	8422 (158)	7552 (141)	8570 (160)	8539 (160)	7669 (144)
			35K	8124 (152)	8624 (161)	8593 (161)	7706 (144)	8743 (164)	8713 (163)	7825 (146)
			40K	8516 (159)	9040 (169)	9008 (169)	8078 (151)	9166 (172)	9133 (171)	8203 (154)
			50K	8608 (161)	9138 (171)	9106 (170)	8165 (153)	9265 (173)	9232 (173)	8292 (155)
	12000LM	75.5	30K	10570 (140)	11221 (149)	11181 (148)	10026 (133)	11377 (151)	11337 (150)	10182 (135)
			35K	10785 (143)	11449 (152)	11408 (151)	10230 (135)	11608 (154)	11567 (153)	10388 (138)
			40K	11306 (150)	12002 (159)	11959 (158)	10724 (142)	12168 (161)	12125 (161)	10890 (144)
			50K	11428 (151)	12132 (161)	12089 (160)	10840 (144)	12300 (163)	12257 (162)	11008 (146)
	15000LM	94.3	30K	13399 (142)	14225 (151)	14174 (150)	12710 (135)	14422 (153)	14371 (152)	12907 (137)
			35K	13671 (145)	14513 (154)	14461 (153)	12968 (138)	14714 (156)	14662 (156)	13169 (140)
			40K	14331 (152)	15214 (161)	15160 (161)	13594 (144)	15425 (164)	15370 (163)	13805 (146)
			50K	14487 (154)	15379 (163)	15324 (163)	13741 (146)	15592 (165)	15537 (165)	13954 (148)
	18000LM	103.4	30K	15901 (154)	16881 (163)	16820 (163)	15083 (146)	17114 (165)	17054 (165)	15317 (148)
			35K	16224 (157)	17223 (167)	17161 (166)	15389 (149)	17462 (169)	17400 (168)	15627 (151)
			40K	17007 (164)	18055 (175)	17990 (174)	16132 (156)	18305 (177)	18240 (176)	16382 (158)
			50K	17192 (166)	18251 (176)	18185 (176)	16307 (158)	18503 (179)	18438 (178)	16560 (160)
	20000LM	125.5	30K	17549 (140)	18630 (148)	18564 (148)	16646 (133)	18888 (150)	18822 (150)	16904 (135)
			35K	17906 (143)	19008 (151)	18940 (151)	16984 (135)	19272 (154)	19204 (153)	17247 (137)
			40K	18770 (150)	19927 (159)	19855 (158)	17804 (142)	20202 (161)	20131 (160)	18080 (144)
			50K	18974 (151)	20143 (160)	20070 (160)	17997 (143)	20421 (163)	20349 (162)	18276 (146)
	24000LM	149.5	30K	21142 (141)	22445 (150)	22364 (150)	20055 (134)	22756 (152)	22675 (152)	20365 (136)
			35K	21571 (144)	22900 (153)	22818 (153)	20461 (137)	23217 (155)	23135 (155)	20779 (139)
			40K	22613 (151)	24006 (161)	23920 (160)	21450 (143)	24339 (163)	24253 (162)	21782 (146)
			50K	22858 (153)	24266 (162)	24179 (162)	21682 (145)	24602 (165)	24516 (164)	22018 (147)

* For 90CRI, reduce lumen output by 17.1%

** For WD reduce output by 4.7%, PGD reduce output by 5.4%

*** For HVOLT use scale factor in HVOLT SCALE FACTOR TABLE

CSA LISTED AMBIENT RATING*

		Standard** (surface)"	Standard** (suspended)"	E10WMCP (surface)	E10WMCP (suspended)	BE6WCP (surface)	BE6WCP (suspended)
L24	2000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	3000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	4000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	6000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
L48	3000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	4000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	6000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	8000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	10000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
L96	12000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	9000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	12000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	15000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	18000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	20000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C
	24000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C

*Minimum Ambient is -30°C unless noted.

**All options not specifically listed in this table are considered standard

HVOLT SCALE FACTOR

	Factor
2000LM	0.814
3000LM	0.814
4000LM	0.814
6000LM	0.835
8000LM	0.845
9000LM	0.850
10000LM	0.850
12000LM	0.845
15000LM	0.860
18000LM	0.880
20000LM	0.845
24000LM	0.865

FEM LAT / L24					
Temp (oC)	Temp (oF)	2000LM	3000LM	4000LM	6000LM
-20	-4	1.064	1.065	1.067	1.069
-10	14	1.050	1.051	1.052	1.054
0	32	1.036	1.037	1.038	1.039
5	41	1.029	1.030	1.030	1.031
15	59	1.015	1.015	1.015	1.016
25	77	1.000	1.000	1.000	1.000
30	86	0.993	0.992	0.992	0.992
35	95	0.985	0.985	0.985	0.984
45	113	0.970	0.969	0.969	0.968
50	122	0.962	0.962	0.961	0.960

FEM LAT / L48							
Temp (oC)	Temp (oF)	3000LM	4000LM	6000LM	8000LM	10000LM	12000LM
-20	-4	1.065	1.066	1.068	1.071	1.073	1.076
-10	14	1.051	1.052	1.054	1.056	1.057	1.060
0	32	1.037	1.037	1.039	1.040	1.041	1.043
5	41	1.029	1.030	1.031	1.032	1.033	1.034
15	59	1.015	1.015	1.016	1.016	1.017	1.017
25	77	1.000	1.000	1.000	1.000	1.000	1.000
30	86	0.993	0.992	0.992	0.992	0.992	0.991
35	95	0.985	0.985	0.984	0.984	0.983	0.982
45	113	0.970	0.969	0.968	0.967	0.966	0.965
50	122	0.962	0.961	0.960	0.958	0.957	0.956

FEM LAT / L96							
Temp (oC)	Temp (oF)	9000LM	12000LM	15000LM	18000LM	20000LM	24000LM
-20	-4	1.071	1.075	1.080	1.082	1.087	1.094
-10	14	1.056	1.059	1.062	1.064	1.068	1.074
0	32	1.040	1.043	1.045	1.046	1.049	1.053
5	41	1.032	1.034	1.036	1.037	1.039	1.043
15	59	1.016	1.017	1.018	1.019	1.020	1.021
25	77	1.000	1.000	1.000	1.000	1.000	1.000
30	86	0.992	0.991	0.991	0.991	0.990	0.989
35	95	0.984	0.983	0.982	0.981	0.980	0.978
45	113	0.967	0.965	0.963	0.962	0.960	0.956
50	122	0.958	0.956	0.954	0.952	0.949	0.945

CONFIGURATION WEIGHTS

	Standard	w/ Sensor	w/ Battery
L24	8	9	9
L48	11	12	12
L96	23	24	24

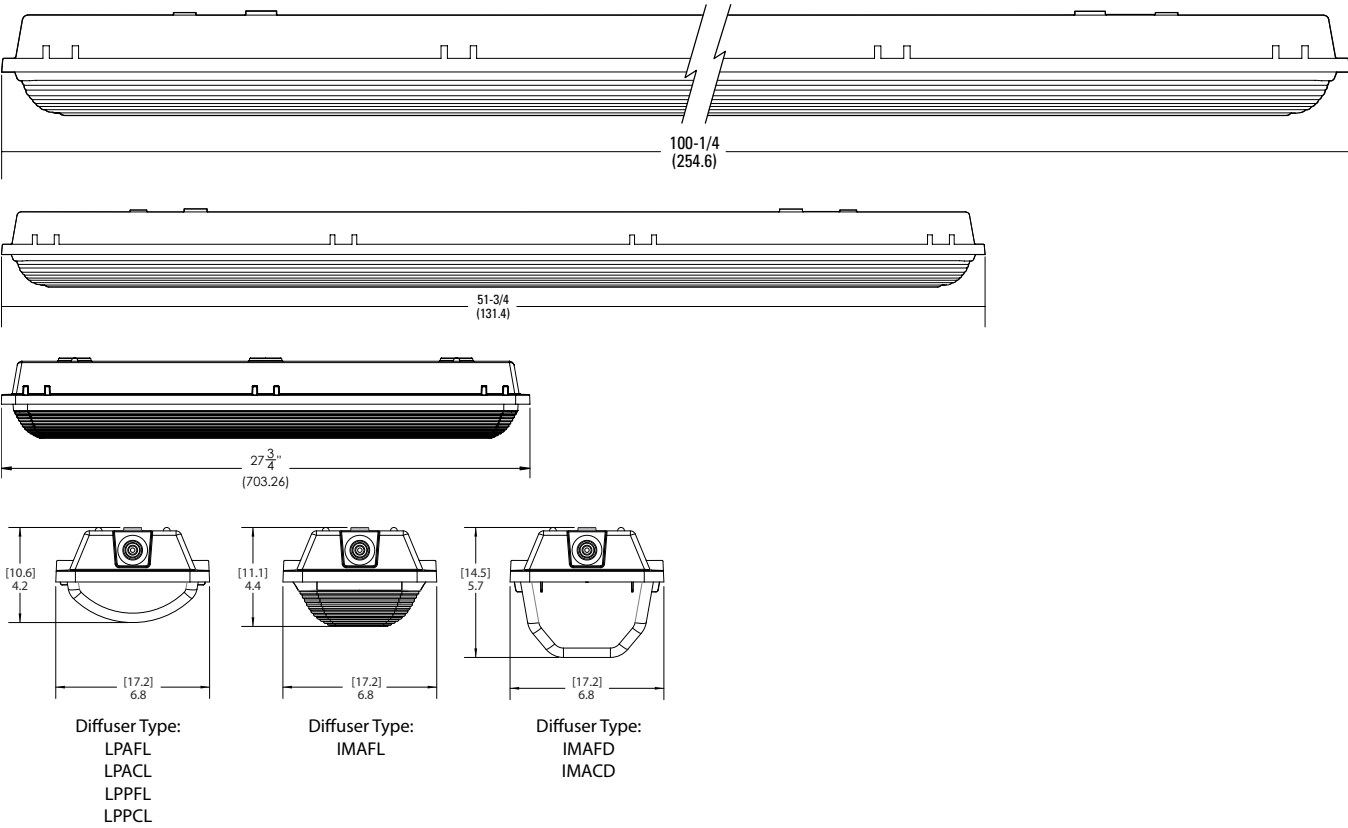
NUMBER OF BOARDS AND DRIVERS

Lumen package	Fixture length	Number of boards	Number of drivers
2000LM	L24	1	1
3000LM		1	1
4000LM		1	1
6000LM		1	1
3000LM	L48	2	1
4000LM		2	1
6000LM		2	1
8000LM		2	1
10000LM		2	1
12000LM	L96	2	1
9000LM		4	1
12000LM		4	2
15000LM		4	2
18000LM		4	2
20000LM		4	2
24000LM		4	2

DIMENSIONS

Specifications subject to change without notice.
All dimensions are inches (centimeters) unless otherwise indicated.

Weight (may vary with options or accessories)
FEM L48: 11.9 lbs (5.397kg)
FEM L96: 24.3 lbs (11.022kg)



PHOTOMETRICS

See www.lithonia.com for photometry reports.

Application

Recessed wall luminaire with shielded light distribution that is ideal for glare-free illumination of ground surfaces, building entrances, stairs and footpaths. Separate installation housing allows for seamless coordination into construction and easy maintenance.

Materials

Clear safety glass with white ceramic coating on one side
Marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
BEGA Tricoat ®, a 3-layer finishing technology for increased corrosion protection
Mechanically captive stainless steel fasteners
Stainless steel screw clamps
Composite installation housing
Pure anodized aluminum reflector

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65

Weight: 1.8 lbs.

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-40° C
LED module wattage	2.7 W
System wattage	5.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	44 lm
LED service life (L70)	60000 hrs

LED color temperature

4000K (K4)

3500K (K35)

3000K (K3)

2700K (K27)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

Available colors

Black (BLK)

Silver (SLV)

RAL:

Bronze (BRZ)

White (WHT)

CUS:

Type: **ST**

BEGA Product:

Project:

Modified:

Available options

CUS	Custom finish
FSC	Fusing
MGU	Marine grade undercoat
RAL	RAL finish

Included (available for pre-shipment)

BB24064 Installation housing



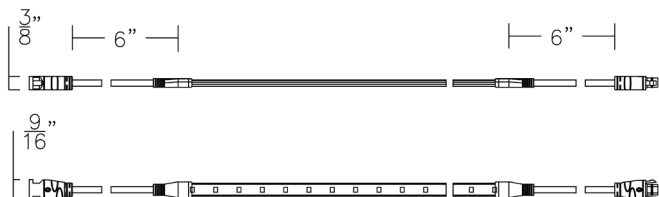
Recessed wall luminaire · Shielded

	LED	A	B	C
B33018	2.7 W	10 ¹ / ₈	2 ¹ / ₄	5

InvisiLED® OUTDOOR

Wet Rated LED Tape

WAC



PRODUCT DESCRIPTION

Designed for the outdoors, this durable and professional grade white tape light delivers superior color consistency and brightness throughout the strip. An IP65 Outdoor Wet Location rating and unique silicon tube protection guards against the elements while offering 3 CCT choices to illuminate hardscaping, landscaping and architectural features.

FEATURES

- May be cut every 4 inches
- Beam Spread: 115°
- Multiple roll lengths offered
- Equal brightness from end to end
- Protection against water spray, dust with silicone jacket (IP65)
- 100 ft max distance between the power supply and beginning of InvisiLED®

SPECIFICATIONS

Construction:	Flexible strip light in silicon tube
Cutting Interval:	4"
Input:	24VDC
Lumens:	Up to 200 lm/ft
Max Run:	Refer to ordering table
Dimming:	TRIAC, ELV, Wireless thru MyWAC app, DMX, 3rd party smart homes (Google Home & Amazon Alexa)
CRI:	90
McAdams Steps:	3
Color Temp:	2700K / 3000K/ 4000K
Rated Life:	50,000 hours
Operating Temp:	-4°F to 104°F (-20°C to 40°C)
Standards:	UL & cUL listed, Wet Location listed, Title 24 Compliant

TAPE SELECTIONS

System	Max Run	Power	Length (in feet)						Color Temp	Finish	
T24-OD1	100+lm/ft	80ft	1.2W/ft	01	05	10	20	40	80	27 2700K 30 3000K 40 4000K	Black
T24-OD2	200+lm/ft	40ft	2.4W/ft	01	05	10	20	40	N/A		

Example: **T24-OD1-20-27**

wacighting.com

Phone (800) 526.2588

Fax (800) 526.2585

Headquarters, East Manufacturing Facility

44 Harbor Park Drive

Port Washington, NY 11050

South East Manufacturing Facility

1600 Distribution Ct

Lithia Springs, GA 30122

Central Manufacturing Facility

1700 South J Elmer Freeway, Ste 100

Cedar Hill, TX 75104

West Manufacturing Facility












1750 S Archibald Ave

Ontario, CA 91761



INVISILED® OUTDOOR

Accessories



	MODEL	Finish		
	T24-WE-IC-002-BK T24-WE-IC-006-BK T24-WE-IC-012-BK T24-WE-IC-036-BK T24-WE-IC-072-BK T24-WE-IC-044-BK T24-WE-IC-040-BK	Black	2 in 6 in 1 ft 3 ft 6 ft 12 ft 20 ft	Tape to Tape Connector Connects tape sections Extends power supply lead wire (Only with PS-24DC-U96R-WE & PS-24DC-A96P-WE)
	T24-WE-BO12-BK T24-WE-BO72-BK	Black	1 ft 6 ft	Invisiled Outdoor Lead Wire Connects to Indoor Power Supply
	T24-WE-EX2-006-BK	Black	6 in	Power Connector Kit Include: wire Jacket and Silicone Sealant Feeds hard-wire power to InvisILED Outdoor Tape
	T24-WE-Y-BK	Black		Y Connector Splits power to the two tape sections
	T24-WE-EC	White		Wet Rated Tape End Caps with Silicone Sealant 10 pieces/pack
	LED-TO24-C1	Black		Surface Mounting Clips Include: Mounting Screws (10 pieces)
	LED-TO24-C2	Black		Edge Mounting Clips Include: Mounting Screws (10 pieces)
	T24-WE-C3	Black		Underside Mounting Clips Include: Mounting Screws (10 pieces)
	T24-WE-CH5	Clear	5 ft	Invisiled Outdoor Surface Mount Clear Channel
	T24-WE-SI-45	White		Silicone Sealant Wet Location Tape Sealant (45 grams)
	T24-WE-EX-CTR	White	6 in	Wireless Controller to InvisILED Outdoor Tape Joiner Cable Joins between T24-OD-CTR wireless controller to InvisILED Outdoor tape

POWER SUPPLY FOR TRIAC/ELV DIMMING

	MODEL	Input	Output	Dimming	
	PS-24DC-U96R-WE	120-277VAC	24VDC 96W	ELV / TRIAC	8 3/8" x 2 13/16" x 1 11/16" > 0.9 pf Overload and short circuit protection Includes 6ft lead wire
	PS-24DC-A96P-WE	120V	24V 96W	N/A	8 3/8" x 2 13/16" x 1 11/16" > 0.9 pf Overload and short circuit protection Includes 6ft lead wire 120V input power cord ready

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InvisiLED® OUTDOOR



Wet Rated LED Tape

WAC

POWER SUPPLY FOR WIRELESS/DMX CONTROL

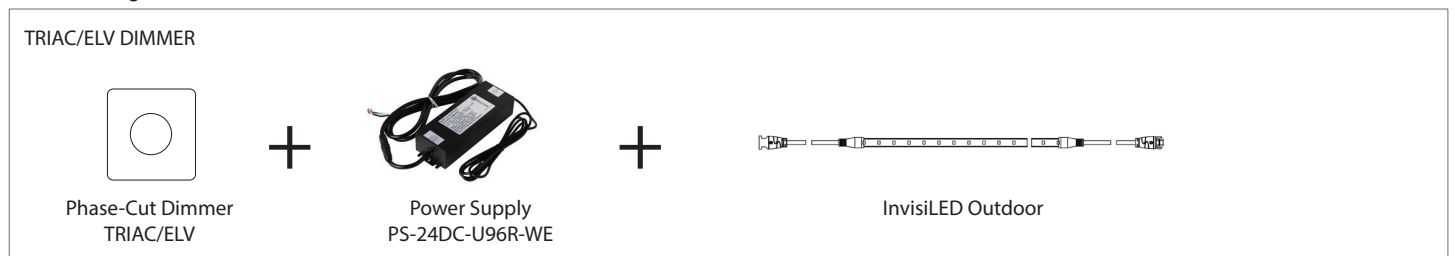
MODEL	Input	Output	Dimension	
 PS-24DC-U96R-IP67	120/277VAC	24VDC, 96W 6ft output long	8 3/8" x 2 13/16" x 1 1/16"	<i>Remote Power Supply - Wet Location IP67 Class 2 Output Power Supply</i>
 PS-24DC-U96R-IP45	120/277VAC	24VDC, 96W 6ft output long	8 13/16" x 2 1/16" x 1 1/4"	<i>Remote Power Supply - Damp Location IP45 Class 2 Output Power Supply</i>
 PS-24DC-A96P-OD	120VAC	24VDC, 96W 6ft output long	8 3/8" x 2 13/16" x 1 1/16"	<i>Portable Power Supply - Wet Location IP67 Class 2 Output Power Supply</i>

CONTROLLER

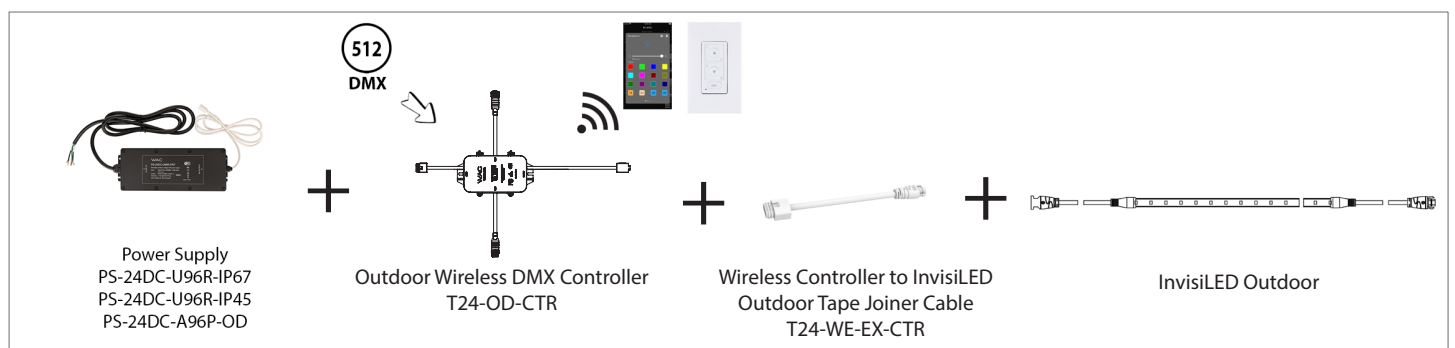
MODEL	Input	Output	Dimension	
 T24-OD-CTR	24VDC, 96W Max from power supply 6" input cable included	24VDC, 90W Max 3ft output cable included	5" x 3 1/2" x 1 1/2"	<i>Outdoor Wireless DMX Controller Allows outdoor tape to be wirelessly controlled through MyWAC app, WallStation, or DMX. - IP66 wet rated *Wi-Fi network is required to operate the system</i>
 LED-WCT-WT	120-230VAC	N/A	4 5/8" x 2 3/4" x 1 5/8"	<i>WallStation - Multi-scene selection - Raise/Lower, dedicated Off button - Suitable for standard single NEMA wall box Setup and configuration via MyWAC mobile application - no physical adjustment needed - cUL listed</i>

WIRING DIAGRAM

Control through TRIAC/ELV Dimmer



Control Through Outdoor Wireless DMX Controller



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Ontario, CA 91761



Specifications

Weight:	1.6 lbs.
H:	5.85" (149mm) w/C1 6.79" (172mm) w/C2

ALDER LED

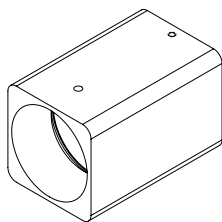
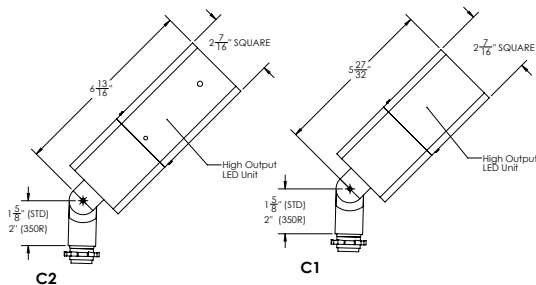
12V/120V LED

HIGHLIGHTS

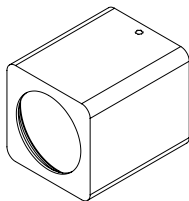
- Accent lights are suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Integral driver for 120V
- Dimmable using standard Triac dimmer for 120V and dimmable using standard MLV dimmer and magnetic transformer for 12V
- Available in 80CRI and 90CRI
- 1,100lm



DIMENSIONS

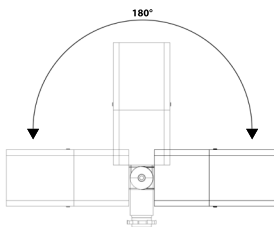


C2 LENS RECESSED



C1 SHORT FLUSH

AIMING DETAILS

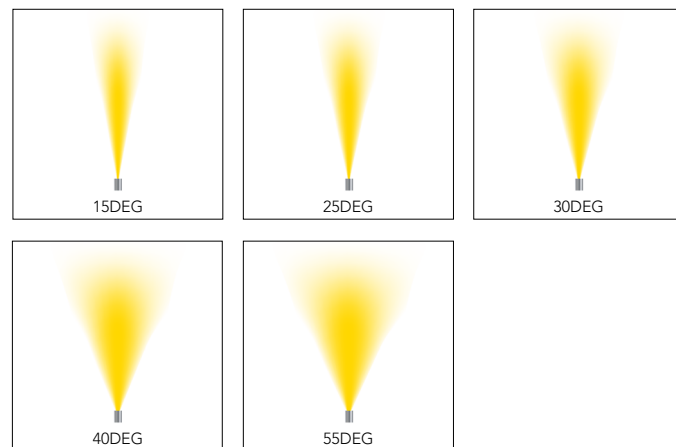


LUMEN PACKAGES

	15DEG	20DEG	25DEG	30DEG	35DEG	40DEG	45DEG	50DEG	55DEG
Delivered Lumens	685	623	659	642	674	656	634	639	641
Watts	11	11	11	11	11	11	11	11	11
LPW	62	57	60	58	61	60	58	58	58
Peak Candela	5,056	2,725	2,827	1830	1569	1212	982	742	664

Note: Information based on 4000K @ P1, 80CRI, 120 Volt with C1 cap and FLC lens

STANDARD DISTRIBUTION



ORDERING INFORMATION

EXAMPLE: ALDER A P1 80CRI 30K 12 20DEG WSL KM C1 BL

ALDER												
Series*	Material*	Performance Packages*	CRI*	Color Temperature*	Voltage*	Distribution*				Lens*	Mounting*	
ALDER	A Aluminum	P1	80CRI	27K	12 ¹ 12Vac	15DEG	15°	40DEG	40°	FLC Flat Clear	KM	Knuckle
		P2 Note: P2 only available with 12volt	90CRI	30K	120 ² 120Vac	20DEG	20°	45DEG	45°	WSL Watershed	350R 350° rotational knuckle	
				35K	Note: 120V only available with P1	25DEG	25°	50DEG	50°			
				40K		30DEG	30°	55DEG	55°			
				50K		35DEG	35°					
				Note: 35K and 50K only available with 80CRI								

Mounting Accessories*				Options ⁵				External Caps*		Finish*	
<u>Independent Mounting</u>				<u>Internal Louver</u>				C1 Short Flush		<u>All Material</u>	
JBA	Aluminum J-Box			S3 ³	3" Stem			C2 Recessed Lens		BL	Black Textured
ARJB	J-Box, Aluminum			S6 ³	6" Stem					BRS	Bronze Smooth
CN4	4" rectangular canopy			S__ ³	12" - 48" stems, available in 6" increments					BRT	Bronze Textured
CN5	5" round canopy									DBL	Black Smooth
WMC	Wall Mount Cover			<u>Extended Arms⁴</u>						DDB	Designer Bronze
WMSA	Wall Mount with Splice Access			EA__	12", 24" or 36"					DNA	Natural Aluminum
STK ⁷	Mounting Stake			EA45__	45° - 12", 24" or 36"					NBS ⁶	Natural Bronze Smooth
TRA ⁷	Tree Mounted J-Box, Aluminum			EA90__	90° - 12", 24" or 36"					STG	Steel Gray
_TRAS ⁷	Tree Mounted J-Box with Aluminum mounting strap, available with 1-4 JBoxes per strap									VET	Verde Textured
PM60A ⁷	Adjustable Post Mount									WH	White Textured
PM60C	Post Mount with Conduit									WHS	White Smooth
PM60D ⁷	Post Mount with Open Bottom									CF	Custom Finish
				<u>Internal Filters</u>						RALTBD	Ral Paint Finishes
				FA Amber						__Z ⁸	Zinc Undercoat (i.e. BLZ)
				FG Green						Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.	
				FGD Green Dichroic							
				FLB Light Blue							
				FM Mercury Vapor							
				FMB Medium Blue							
				FMBD Medium Blue Dichroic							
				FR Red							
				FRD Red Dichroic							

*Required Fields

Notes:

- Remote transformer required. Options for [remote transformers](#).
- Integral Driver.
- Aluminum stems only compatible with PM60A, PM60C and PM60D.
- Extended arms compatible with WMC and WMSA.
- Up to 2 options can be specified.
- NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.
- Only available with 12 volt.
- Zinc undercoat for harsh environments

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 12 Volt	8	15DEG	33	33	19	19	5,180	702	88	5,374	728	91	5,471	741	93	5,665	768	96	5,858	794	99
		20DEG	45	45	22	22	2,792	639	80	2,897	663	83	2,949	675	84	3,053	699	87	3,158	722	90
		25DEG	44	44	24	24	2,897	675	84	3,005	700	88	3,060	713	89	3,168	738	92	3,276	764	96
		30DEG	56	56	30	30	1,875	658	82	1,945	682	85	1,980	694	87	2,050	719	90	2,120	744	93
		35DEG	57	56	37	36	1,608	691	86	1,668	717	90	1,698	729	91	1,758	755	94	1,818	781	98
		40DEG	65	64	41	40	1,242	672	84	1,288	697	87	1,311	710	89	1,358	735	92	1,404	760	95
		45DEG	74	73	45	44	1,006	650	81	1,044	674	84	1,063	686	86	1,100	711	89	1,138	735	92
		50DEG	86	85	53	51	760	654	82	788	679	85	802	691	86	831	716	90	859	740	93
		55DEG	93	93	56	54	681	657	82	706	682	85	719	694	87	744	719	90	770	743	93
P2 12 Volt	12	15DEG	33	33	19	19	7,012	950	79	7,274	986	82	7,405	1,003	84	7,667	1,039	87	7,930	1,074	90
		20DEG	45	45	22	22	3,780	865	72	3,921	897	75	3,992	913	76	4,133	945	79	4,274	978	82
		25DEG	44	44	24	24	3,921	914	76	4,068	948	79	4,141	965	80	4,288	999	83	4,435	1,033	86
		30DEG	56	56	30	30	2,538	890	74	2,632	923	77	2,680	940	78	2,775	973	81	2,870	1,006	84
		35DEG	57	56	37	36	2,176	935	78	2,257	970	81	2,298	987	82	2,379	1,022	85	2,461	1,057	88
		40DEG	65	64	41	40	1,681	909	76	1,744	943	79	1,775	960	80	1,838	994	83	1,901	1,028	86
		45DEG	74	73	45	44	1,362	880	73	1,413	912	76	1,438	929	77	1,489	962	80	1,540	995	83
		50DEG	86	85	53	51	1,029	886	74	1,067	919	77	1,086	935	78	1,125	968	81	1,163	1,002	84
		55DEG	93	93	56	54	921	889	74	956	923	77	973	939	78	1,007	973	81	1,042	1,006	84

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW	Max CD	Lumens	LPW
P1 120 Volt	11	15DEG	33	33	19	19	4,568	619	56	4,710	638	58	4,755	644	59	5,056	685	62	5,078	688	63
		20DEG	45	45	22	22	2,463	563	51	2,539	581	53	2,563	586	53	2,725	623	57	2,737	626	57
		25DEG	44	44	24	24	2,555	595	54	2,634	614	56	2,659	620	56	2,827	659	60	2,840	662	60
		30DEG	56	56	30	30	1,653	580	53	1,704	598	54	1,721	603	55	1,830	642	58	1,838	645	59
		35DEG	57	56	37	36	1,418	609	55	1,461	628	57	1,475	634	58	1,569	674	61	1,576	677	62
		40DEG	65	64	41	40	1,095	592	54	1,129	611	56	1,140	617	56	1,212	656	60	1,217	659	60
		45DEG	74	73	45	44	887	573	52	915	591	54	924	596	54	982	634	58	986	637	58
		50DEG	86	85	53	51	670	577	52	691	595	54	697	601	55	742	639	58	745	641	58
		55DEG	93	93	56	54	600	580	53	619	597	54	625	603	55	664	641	58	667	644	59

CRI SCALING	Multiplier
90CRI	0.83

Note: Information based on ALDER 12 volt

CRI SCALING	Multiplier
90CRI	0.77

Note: Information based on ALDER 120 volt

EXTERNAL CAP	Multiplier
C2	0.70

OPERATING TEMPERATURE: -20°C through 45°C (120v)
-20°C through 50°C (12v)

PHOTOMETRIC DIAGRAMS

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

FEATURES & SPECIFICATIONS

MATERIAL: Body, caps and knuckle machined from 6061-T6 aluminum.

LIGHT SOURCE: Proprietary high output LED's. Units have near constant light output when supplied with 11VAC-14VAC to combat voltage drop. All within 3 MacAdam ellipses.

VOLTAGE: 12 Volt AC, 120 volt AC.

DISTRIBUTION: Available 15DEG, 20DEG, 25DEG, 30DEG, 35DEG, 40DEG, 45DEG, 50DEG, 55DEG

LENS: FLC - Cut from heat strengthened borosilicate glass for superior clarity and strength. WSL - Molded heat strengthened borosilicate glass for superior clarity and strength, where the glass and the top of the door are flush, to allow water to shed off the fixture.

MOUNTING: Knuckle is 1/2" NPSM, mounts to 7/8" thru hole.

POWER SUPPLY: Remote 12VAC transformer, purchased separately. For 120VAC driver is integral. 12VAC dimmable using a remote magnetic transformer. 120V AC dimmable using a standard Triac dimming switch/systems.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

FEATURES: Tapered "Sure Lock" knuckle seat for infinite aiming and an unparalleled locking ability. Any combination of up to 2 lens accessories/color filter/shielding can be specified in any cap style and are held securely by a removable stainless steel clip ring.

LISTING: cCSAus, Wet location. Laboratory tests conducted by CSA to UL Standards UL-1598, UL-8750 and UL-1838.

BUY AMERICAN ACT: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details

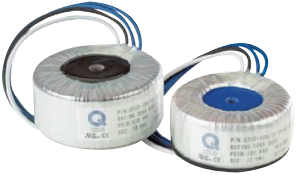

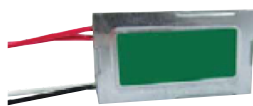

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting




Part #		
	<ul style="list-style-type: none"> • 10 and 20 watts, 120V to 12VAC or 277V to 12VAC magnetic • Must be mounted in a listed weatherproof enclosure • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED 	<p>Examples: TM10 120 TM10 277 TM20 120 TM20 277 See spec sheet for more options</p>
	<ul style="list-style-type: none"> • 300 watts, 120V or 277V to 12VAC magnetic • Rated for outdoor surface mount, minimum of 12" above finished grade with the wire connection terminals facing down • Multi-tap secondary output allowing 12-15 Volt • Internal on/off switch-circuit breaker • Five "knock-outs" in the bottom cover plate (two 1/2", two 3/4" and one 1-1/2") • Dimmable by using a magnetic low voltage dimmer switch • Non-Isolated • Suitable for LED 	<p>Example: TM300 120 See spec sheet for more options</p>
	<ul style="list-style-type: none"> • 15 watts, 120V to 12VAC electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED 	<p>Example: TE15 120 See spec sheet for more options</p>
	<ul style="list-style-type: none"> • 60 and 75 watts, 120V to 12VAC electronic • Maximum remote distance is 10' • Non-Isolated Suitable for LED 	<p>Examples: TE60 120 TE75 120 See spec sheet for more options</p>

REMOTE TRANSFORMERS

Transformers may be loaded to 100% capacity, however the recommended load range for optimal efficiency is 40-80%.

Non-Isolated Transformers: Suitable for use with landscape type lighting

Isolated Transformers: Suitable for use with underwater and landscape type lighting

		Part #
	<ul style="list-style-type: none"> • Stepdown transformers are two winding isolated type • Two separate wiring compartments isolate primary and secondary leads • Housed in weatherproof enclosure • Meets requirements of article 680 N.E.C. Listed by U.L. • 100 watt 120/12,13,14 ac (T1901) • 300 watt 120/12,13,14 ac (T1903) • Dimmable by using magnetic low voltage dimmer switch • Isolated - can be used near underwater application • Suitable for LED 	<p>Examples: T1901 (100watts) T1903 (300watts) See spec sheet for more options</p>
	<ul style="list-style-type: none"> • Ground power post mount • 15 watts, 120V to 12V AC, electronic • Non-Isolated, suitable for LED • Non-Dimmable • Stem length available from 3" to 36" 	<p>Examples: PM60B ET15 120 S3 BL PMBR60B ET15 120 S6 POL See spec sheet for more options</p>
	<ul style="list-style-type: none"> • Wall mount power box • 15 watts, 120V to 12V AC, electronic • 20 watts, 120V to 12V AC, magnetic • ET15 - Electronic is non-dimmable • M20 - Magnetic is dimmable using low voltage magnetic dimmer switch • Non-isolated, suitable for LED 	<p>Examples: WP2J ET15 120 12C BL WP2S M50 120 34C BRS See spec sheet for more options</p>

ACCENT MOUNTING ACCESSORIES




		Part #
	<ul style="list-style-type: none"> JBA Junction box for direct fixture mounting Available in cast aluminum Used where splicing is required for single or multiple fixtures Drilled and tapped to specified requirements May be Ground or wall mounted 	Examples: JBA 34E 34F 78G BL See spec sheet for more options
	<ul style="list-style-type: none"> ARJB Architectural Junction Box Available in cast aluminum For direct mounting of a single lighting fixture Designed for architectural and landscape application Recommended for mounting on a rigid metallic conduit 	Example: ARJB 12B 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> CN4 wall plate canopy Available in aluminum or brass Shape rectangular to mount over a standard switch box Thru hole sized for standard 1/2 pipe thread Fixtures secured via locking nut (for thru hole) or threaded knuckle 	Example: CN4 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> CN5 wall mount canopy Available in Aluminum, Brass or stainless steel Shape round to mount over a standard 4" round or octagonal box. Thru hole sized for standard 1/2 pipe thread Fixture secured via locking nut (for thru hole) or threaded knuckle 	Example: CN5 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> WMC wall mount cover Available in cast aluminum Wall mount cover or mounting fixture over wall box (by others) 	Examples: WMC 78C BL See spec sheet for more options
	<ul style="list-style-type: none"> WMSA wall mount splice access Available in cast aluminum Wall mount with splice access plate for mounting a variety of fixtures Integral splice access compartment for easy fixture connections To be mounted over a recessed wall box 	Example: WMSA 78C BL See spec sheet for more options

ACCENT MOUNTING ACCESSORIES

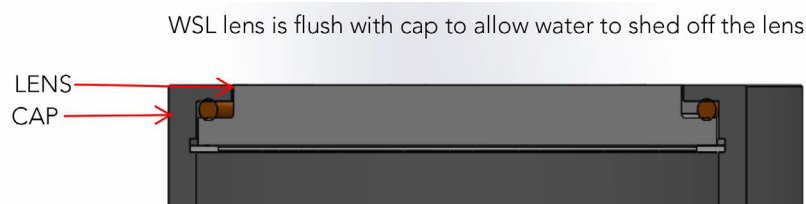
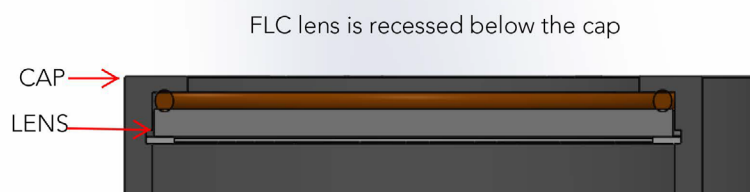
		Part #
	<ul style="list-style-type: none"> TRA/TRB tree mount junction box Available in cast aluminum or bronze Includes a splice box with a mounting plate Placement of small accent fixtures around or on a structure, like a tree 	Examples: TRA 12B 78C BL TRB 12B 78C See spec sheet for more options
	<ul style="list-style-type: none"> TRAS/TRBS tree mount junction box with strap. Available in cast aluminum or bronze Includes one or more splice boxes with a polypropylene strap Placement of small accent fixtures around the trunk or branch of a tree 	Examples: 2TRAS 12B 78C DDB 1TRBS 12B 78C See spec sheet for more options
	<ul style="list-style-type: none"> STK ground mounting stake Low voltage portable installations only UV Stable plastic 	Example: STK See spec sheet for more options
	<ul style="list-style-type: none"> Post Mounts PM60A, PM60C and PM60D Ground Mounting posts Available in aluminum or brass Suitable for fixtures with 1/2" knuckles Fixtures are secured with a locking nut PM60A and PM60D are used only with low volt fixtures PM60C can be used with low or line voltage fixtures Optional stems are offered in lengths from 3" to 36" 	Examples: PM60A S3 BL PMBR60C S12BR BRS PM60D BL See spec sheet for more options
	<ul style="list-style-type: none"> EA-Extended Arms Available in lengths 12", 24" and 36" Available in angles 45° and 90° Material available in aluminum Extended arms are compatible with WMC and WMSA wall mounts 	Examples: WMC EA12 12C BL WMSA EA4512 12C BRS
	<ul style="list-style-type: none"> Tree Ring TRAR 2FX, TRAR 3FX, TRAR 4XF, TRAR 5FX, TRAR 6FX Stainless Steel Ring and Hardware Can accommodate trees between 10" to 15" in diameter Available in 2, 3, 4, 5 and 6 fixture configurations 	Examples: TRAR 5FX 12S 12C BL TRAR 3FX 12S 12C BRS Note: TRAR is sold separately. See spec sheets for options

ALDER INTERNAL ACCESSORIES

Internal Accessories can be ordered separate and are field replaceable

	INTERNAL HONEYCOMB LOUVER <ul style="list-style-type: none"> • Hexagonal cell louver with 45° cut-off • Includes retaining ring 	Example: IHLALDER
	INTERNAL ACCESSORY LENSES <ul style="list-style-type: none"> • L1 Prismatic Lens • L2 Linear Spread Lens • L3 Softening Lens • Includes retaining ring 	Examples: LAALDER L1 LAALDER L2 LAALDER L3
	INTERNAL COLORED FILTERS <ul style="list-style-type: none"> • FA Amber • FG Green • FGD Green Dichroic • FLB Light Blue • FM Mercury Vapor • FMB Medium Blue • FMBD Medium Blue Dichroic • FR Red • FRD Red Dichroic • Includes retaining ring 	Examples: CFALDER FA CFALDER FG CFALDER FGD CFALDER FLB CFALDER FM CFALDER FMB CFALDER FMBD CFALDER FR CFALDER FRD

The difference between the FLC and WSL lens





General Illumination Wall Mount Cylinder

2"

Feature Set

- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- Bounding Ray™ optical design
- 50° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from room side.
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location wall mounted (WL option)
- ENERGY STAR® Certified product
- 20 standard colors in textured and gloss finish; custom or RAL colors also available

Distribution



Superior Performance

Nominal lumens	250	500	750	1000	1500	2000
Delivered	265	540	802	1073	1537	2094
Wattage	3.4	6.3	9.7	12.7	21.2	31.7
Efficacy	78	85	83	84	73	66

*Based on 3500K 80CRI MWD AR LSS



Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core



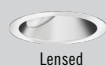
Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

Healthcare



MRI



Surgical Suite



Patient Room

Special Applications



Dynamic



Food Service



Vandal/Tamper



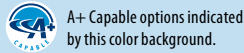
Clean Room



Shower



Steam Room



Luminaire Type:

Catalog Number:

EXAMPLE: EV02WC 35/10 AR LSS MWD MVOLT UGZ RGH DWHG

Series	Color Temperature	Lumens	Reflector Color	Reflector Finish	Distribution
EV02WC EVO 2in Round Wall Mount Cylinder Open Downlight	27/ 2700 K 30/ 3000 K 35/ 3500 K 40/ 4000 K 50/ 5000 K	02 250 lumens 05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens	AR Clear PR Pewter WTR Wheat GR Gold WR ² White painted BR ² Black painted BZR ² Dark Bronze painted	LSS Semi-specular LD Matte diffuse	ND Narrow (0.8 s/mh) MWD Medium Wide (1.0 s/mh) WD Wide (1.2 s/mh)

Voltage	Driver	Mounting	Control Interface ⁵
MVOLT 120V - 277V 120 120V 277 277V	UGZ ³ Universal dimming to 1% (0-10V, 120V TRIAC or ELV)	RGH ⁴ Recessed Gear Housing SGB Surface Gear Box	(blank) NLT nLight® dimming pack. NLTER ⁶ nLight® dimming pack for fixtures on emergency circuit NLTAIR2 nLight® AIR dimming pack. NLTAIRER2 ⁶ nLight® AIR dimming pack for fixtures on emergency circuit NLTAIREM2 nLight® AIR dimming pack for fixtures on emergency circuit

Options	Architectural Colors - Powder Paint ⁹		
90CRI ¹ High CRI (90+) nLight Lumen Compensation WL ⁸ Wet Location	<table> <tr> <td> DDB Gloss Dark Bronze DBL Matte Black DWH Gloss White DMB Matte Medium Bronze DNA Gloss Natural Aluminum DSS Gloss Sandstone DGC Gloss Charcoal Grey DTG Gloss Tennis Green DBR Gloss Bright Red DSB Gloss Steel Blue </td> <td> DDBT Textured Dark Bronze DBLB Textured Black DWHG Textured White DBNH Textured Bronze DNAT Textured Natural Aluminum DSST Textured Sandstone DSPD Textured Dark Grey DSPE Textured Green DSPH Textured Light Red DWHAMF Gloss White with Anti-microbial finish </td></tr> </table>	DDB Gloss Dark Bronze DBL Matte Black DWH Gloss White DMB Matte Medium Bronze DNA Gloss Natural Aluminum DSS Gloss Sandstone DGC Gloss Charcoal Grey DTG Gloss Tennis Green DBR Gloss Bright Red DSB Gloss Steel Blue	DDBT Textured Dark Bronze DBLB Textured Black DWHG Textured White DBNH Textured Bronze DNAT Textured Natural Aluminum DSST Textured Sandstone DSPD Textured Dark Grey DSPE Textured Green DSPH Textured Light Red DWHAMF Gloss White with Anti-microbial finish
DDB Gloss Dark Bronze DBL Matte Black DWH Gloss White DMB Matte Medium Bronze DNA Gloss Natural Aluminum DSS Gloss Sandstone DGC Gloss Charcoal Grey DTG Gloss Tennis Green DBR Gloss Bright Red DSB Gloss Steel Blue	DDBT Textured Dark Bronze DBLB Textured Black DWHG Textured White DBNH Textured Bronze DNAT Textured Natural Aluminum DSST Textured Sandstone DSPD Textured Dark Grey DSPE Textured Green DSPH Textured Light Red DWHAMF Gloss White with Anti-microbial finish		

ACCESSORIES — order as separate catalog numbers (shipped separately)

G COLORS KIT	Architectural colors chip kit, consisting of powder-coat and plated finishes.
HS234FL	Hole saw for RGH option
SDT 347/120 75VA	347V/120V, 75VA step down transformer. Must be remote mounted.

ORDERING NOTES

- 5000K CCT not available with 90CRI.
- Not available with Reflector Finish.
- Refer to [Tech 240](#) for compatible dimmers.
- RGH with 2000LM option requires 120 or 277 (non-IC).
- Field installed. Access required to location of remote mounted device.
- ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
- Requires NLT or NLTER.
- Must be mounted in down orientation in wet location applications.
- For details on RAL and Custom colors please see [Architectural colors](#).

Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from room side.

Optical design is a Bounding Ray™ design with 50° cutoff to source and source image. Top down flash characteristic for superior glare control.

Superior 100% Virgin-silicone refractive optic, enables maximum dimensional stability and optical transmission with no discoloration over life. Field interchangeable optics.

Electrical

The luminaire shall operate from a 50 or 60 Hz ± 3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 1.0% of rated lumen output with a smooth shut off function to step to 0%.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Surface Gear Box (SGB) for direct installation to 4" recessed or surface octagonal (by others).

Recessed Gear Housing (RGH) ships with driver box for recessed or surface installation.

Die cast with flangeless reflector allows flow-through passive thermal management.

Accommodates between 3/8" to 3"-thick wall surfaces.

Listings

Fixtures are UL Certified to meet US and Canadian Standards; All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, damp location standard; wet location wall mounted optional (WL).

RGH option is IC rated up to 1500LM

Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed

Buy American

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate with a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

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

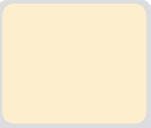
Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.910
	3000K	0.946
	3500K	1.000
	4000K	1.027
	5000K	1.054
90	2700K	0.784
	3000K	0.847
	3500K	0.874
	4000K	0.946

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LSS - Semi Specular	1.00
LD - Matte Diffuse	0.98
Reflector Color	Multiplier
WR - White	0.98
BR - Black	0.92
BZR - Bronze	0.91
AR - Clear	1.00
GR - Gold	0.99
PR - Pewter	0.99
WTR - Wheat	0.98

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
UGZ	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

J-box Compatibility Matrix		Cylinder Configurations	
		SGB	RGH
Recommended J-box (by others)	4" Octagonal 4x4x1.5 deep (by others)	✓	✗
	4" Octagonal 4x4x2.125 deep (by others)	✓	✗
	Factory Provided Gear Box (4" Square 4x4x1.5 deep)	✗	✓

Standard Architectural Color Options for Cylinder Bodies



DSS LITHONIA P12
Sandstone



DSST TEXTURED P90
Sandstone



DBR LITHONIA P34
Bright Red




DSPH TEXTURED P80
Light Red



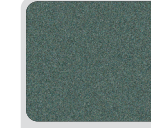
DMB LITHONIA P11
Medium Bronze



DBNH TEXTURED P74
Bronze



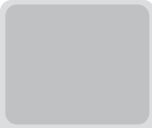
DTG LITHONIA P33
Tennis Green



DSPE TEXTURED P78
Green



DSB LITHONIA P49
Steel Blue



DNA LITHONIA P07
Natural Aluminum



DNAT TEXTURED P89
Natural Aluminum




DGC LITHONIA P32
Charcoal Gray



DSPD TEXTURED P77
Dark Grey



ddb LITHONIA P50
Dark Bronze



ddbT TEXTURED P88
Dark Bronze




DBL LITHONIA P13
Black



DBLB TEXTURED P75
Black



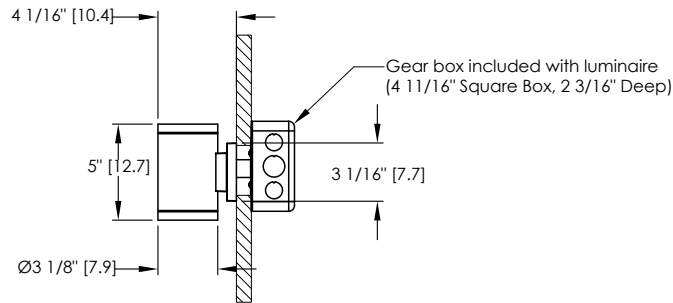
DWH LITHONIA P21
White



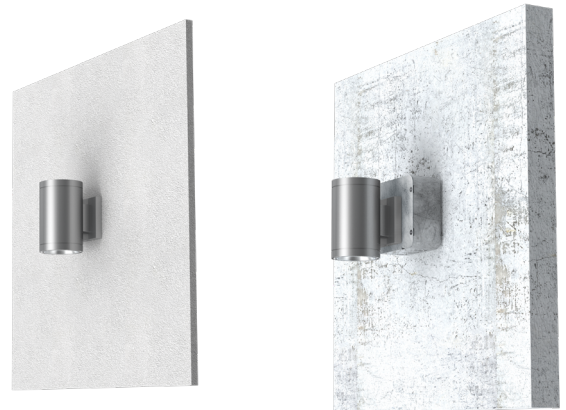
DWHG TEXTURED P86
White

NOTE: These colors were carefully reproduced to give as true a depiction as possible of finished product color. Some colors, however, may vary slightly from actual appearance due to display/printing variations and limitations. Please always contact a Gotham representative for an accurate paint chip sample.

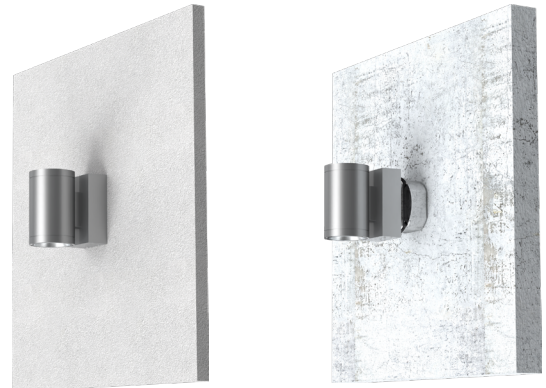
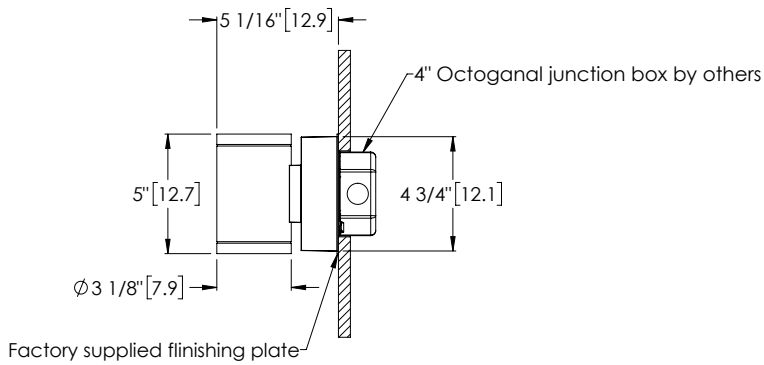
RGH - Recessed Gear Housing



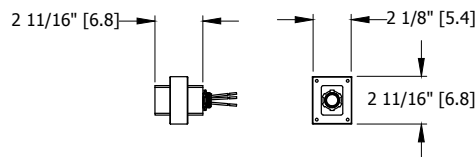
Wall cutout: Ø 2 3/4" [7]
 Wall thickness range: 1/2" [1.3] to 3" [7.6]
 Luminaire can be mounted as uplight or downlight



SGB - Surface Gear Box



347V Transformer

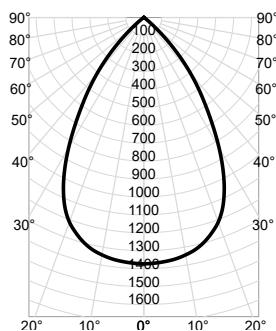


347 Transformer:
 Install to accessible
 junction box by others

*Dimensions in inches [centimeters]

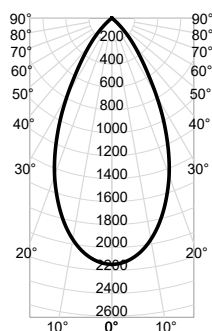
CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

EVO2WC 35/15 AR LSS MWD Input Watts: 21.2, Delivered Lumens: 1537, LPW: 72.5, S/MH: 1.02, Test No: 19-649-02P497



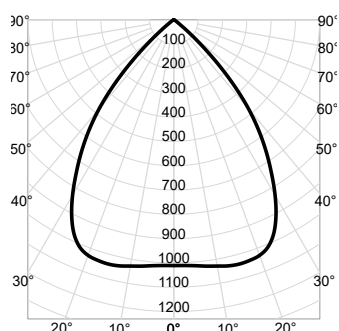
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter		Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%							
0°	1,373	0° - 30°	973	63%	0	119	119	119	116	116	116	111	111	111	6.0	38.1	7.8	0°	521,285		
5°	1,365	0° - 40°	1,350	88%	1	110	108	105	108	106	104	104	102	101	8.0	21.5	10.5	45°	110,600		
15°	1,297	0° - 60°	1,532	100%	2	102	98	94	100	97	93	97	94	91	10.0	13.7	13.1	55°	9,597		
25°	1,061	0° - 90°	1,537	100%	3	95	89	85	93	88	85	91	87	83	12.0	9.5	15.7	65°	3,234		
35°	603	90° - 180°	0	0%	4	88	82	78	87	81	77	85	80	76	14.0	7.0	18.3	75°	1,760		
45°	206	0° - 180°	1,537	100%	5	82	76	71	81	75	71	79	74	70	Beam Angle: 66.3° Field Angle: 94.1°			85°	871		
55°	15				6	76	70	65	75	70	65	74	69	65							
65°	4				7	71	65	60	71	65	60	69	64	60							
75°	1				8	67	60	56	66	60	56	65	60	56							
85°	0				9	63	56	52	62	56	52	61	56	52							
90°	0				10	59	53	49	58	53	49	58	52	48							

EVO2WC 35/15 AR LSS ND Input Watts: 21.2, Delivered Lumens: 1621, LPW: 76.5, S/MH: 0.80, Test No: 19-649-01P497



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)			
0°		Zone	Lumens	% Fixture	pf	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	2,149	0° - 30°	1,188	73%	0	119	119	119	116	116	116	111	111	111	6.0	59.7	5.8	0°	815,772			
5°	2,099	0° - 40°	1,494	92%	1	111	109	106	109	107	105	105	103	101	8.0	33.6	7.7	45°	74,252			
15°	1,739	0° - 60°	1,617	100%	2	103	100	96	102	98	95	99	96	93	10.0	21.5	9.6	55°	6,420			
25°	1,126	0° - 90°	1,621	100%	3	97	92	88	95	91	87	93	89	86	12.0	14.9	11.6	65°	2,156			
35°	478	90° - 180°	0	0%	4	91	85	81	89	84	81	87	83	80	14.0	11.0	13.5	75°	1,173			
45°	138	0° - 180°	1,621	100%	5	85	79	75	84	79	75	82	78	74	Beam Angle: 51.5° Field Angle: 84.5°					85°	871	
55°	10				6	80	74	70	79	74	70	78	73	69								
65°	2				7	75	69	65	75	69	65	73	68	65								
75°	1				8	71	65	61	71	65	61	70	65	61								
85°	0				9	67	62	58	67	61	58	66	61	57								
90°	0				10	64	58	54	63	58	54	63	58	54								

EVO2WC 35/15 AR LSS WD Input Watts: 21.2, Delivered Lumens: 1472, LPW: 69.4, S/MH: 1.19, Test No: 19-649-03P497



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)			
						pf	80%				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
0°	1,011	0° - 30°	832	57%		0	119	119	119	116	116	116	111	111	111	6.0	28.1	9.7	0°	383,741		
5°	1,015	0° - 40°	1,241	84%		1	110	107	105	108	105	103	104	102	100	8.0	15.8	12.9	45°	137,982		
15°	1,040	0° - 60°	1,465	100%		2	101	97	93	100	96	92	96	93	90	10.0	10.1	16.1	55°	12,774		
25°	971	0° - 90°	1,472	100%		3	93	88	84	92	87	83	89	85	81	12.0	7.0	19.4	65°	4,312		
35°	662	90° - 180°	0	0%		4	86	80	75	85	79	75	83	78	74	14.0	5.2	22.6	75°	2,200		
45°	257	0° - 180°	1,472	100%		5	80	73	68	79	73	68	77	72	68	Beam Angle: 77.8°				85°	1,307	
55°	19					6	74	67	63	73	67	62	72	66	62	Field Angle: 98.3°						
65°	5					7	69	62	57	68	62	57	67	61	57							
75°	2					8	64	57	53	63	57	53	62	56	52							
85°	0					9	60	53	49	59	53	49	58	52	48							
90°	0					10	56	49	45	55	49	45	54	49	45							

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories

Order as separate catalog number. Visit [nLight AIR](#).

Wall Switches

Model Number	
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

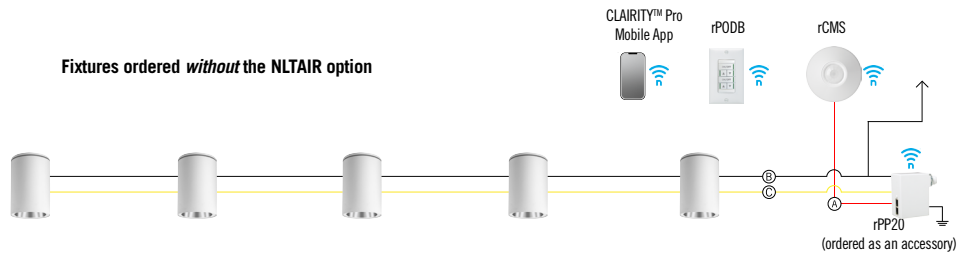
nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)

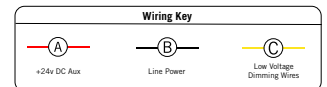
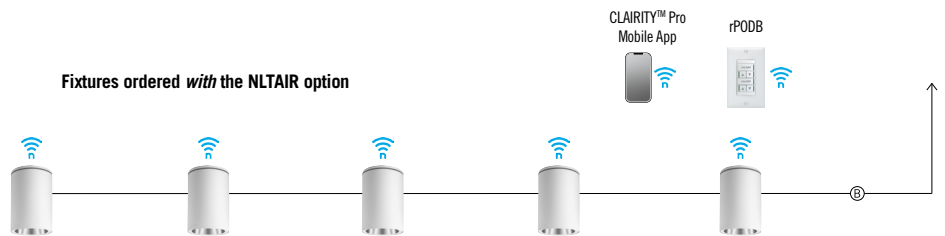
Model Number	
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

Possibilities for nLight® AIR

Fixtures ordered *without* the NLTAIR option



Fixtures ordered *with* the NLTAIR option



nLight® Wired The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control Accessories

Order as separate catalog number. Visit [nLight](#).

Wall Switches

Model Number	
On/Off single pole	nPODM (XX)
On/Off two pole	nPODM 2P (XX)
On/Off & raise/lower single pole	nPOD DX (XX)
On/Off & raise/lower two pole	nPODM 2P DX (XX)
Graphic touchscreen	nPOD GFX (XX)

Photocell Controls

Dimming	nCM ADCX
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nLight® Wired Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)

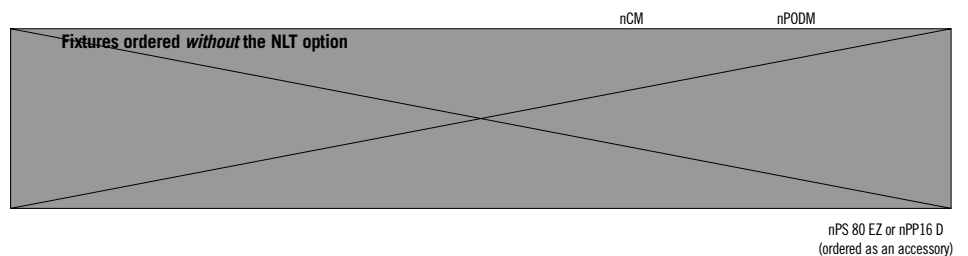
Model Number	
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)

10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

Possibilities for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option

