

Symphony



EXHIBIT 3.H

cyclone



Symphony

DETAILS

The SYMPHONY is a new take on the traditional “acorn” design and it performs with our Galaxy engine and offers higher wattages and optical performance for the utility market. Available with and without a decorative guard, all versions come with a metallic top to improve dark sky conditions. The globe is available with a ribbed or POND (partially obscuring non-diffusing) finish.

CONSTRUCTION

- Heavy spun aluminum hood with finial and optional decorative guard.
- Sturdy diecast aluminum housing with integrated driver compartment
 - Certified IP66 optical system
- Silicone gaskets and stainless steel hardware
- Mounts onto Ø4” O.D. x 3” long tenon with available 2 7/8” O.D. (R28) and 3” O.D. (R30) fitter adaptors.

LED, LENS & OPTICS

- Type 2, 3, 3m (wide), 4 & 5 Roadway optics available
- Optional House-side shield available to cut back light
 - High power LED available in 3000K & 4000K
- Injection-molded globe is available in clear ribbed PMMA acrylic (VS3AR) or with a diffused finish (VS3AP).
 - all lens & optics are fully UV stable.

FINISH

- Available in 10 standard colors
 - Textured (TX) or smooth (SM) finish
 - Optional RAL colors are also available
- Super durable extremely resistant exterior polyester powder coating meets AAMA 2604 requirements (5 years South Florida exposure)
- For added protection a Marine Grade (MG) pre-finish is available to meet ASTM G7, B117, D1654 and D2247 requirements (salt spray, corrosion and humidity resistance)



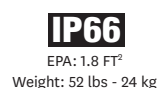
ELECTRICAL

- Dimmable 0-10 volt, high power factor (90%) driver
- 120, 208, 240, 277, 347 OR 480 volts available
- 10 kA Surge protector supplied standard

OPTIONAL

- Programmable driver (PROG)
- 7-Pin ANSI C136.41 receptacle (PTDR) available with shorting cap (PX), photocell (PT) or long-life photocell (PTL)
- Field adjustable 10% increment step-dimming switch (SD)

Contact factory for **WIRELESS CONTROLS** and further details



REV. 2: 04/17

Galaxy LED ENGINE

The Galaxy Light engine unit is a custom designed, modular system that combines state-of-the-art optics, LEDs and thermal management and is rigorously tested to ensure high performance and long life.



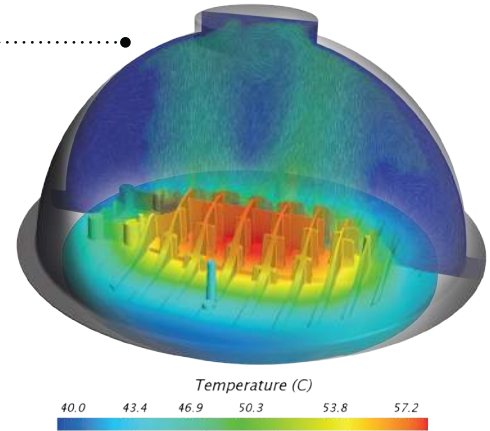
ROBUST DESIGN

- Sealed IP66
- Modular aluminum LED board with acrylic optic
- Die cast aluminum alloy heat sink with thermal interface
- Heat sink designed and tested for optimal thermal management performance in all weather from
- 40C/-40F to 50C/ 122F
- High Power LEDs with thermal and electric protection for stability and protects it from electrical surge.

Computational Fluid Dynamics simulation

PERFORMANCE DRIVEN

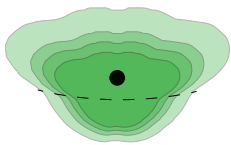
- Modular design allows the GALAXY wattages ranging from 20 to 120W
- Equivalent to 50-250W HID with 60% energy saving
- GALAXY engines are tested & designed for a lifespan of over 100,000 hours
- Tested according to LM79 standard by recognize NVLAP independent laboratories



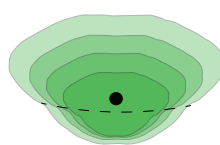
IES Distribution types

Cyclone Lighting offers optically engineered performance systems based on a series of acrylic injection molded lens of IES Roadway distribution types giving you the performance of a cobra head in a sleek decorative fixture.

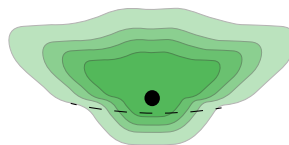
Type 2



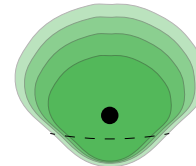
Type 3



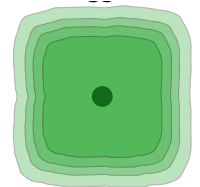
Type 3M



Type 4



Type 5



--- Indicates House Side Shield impact on photometrics



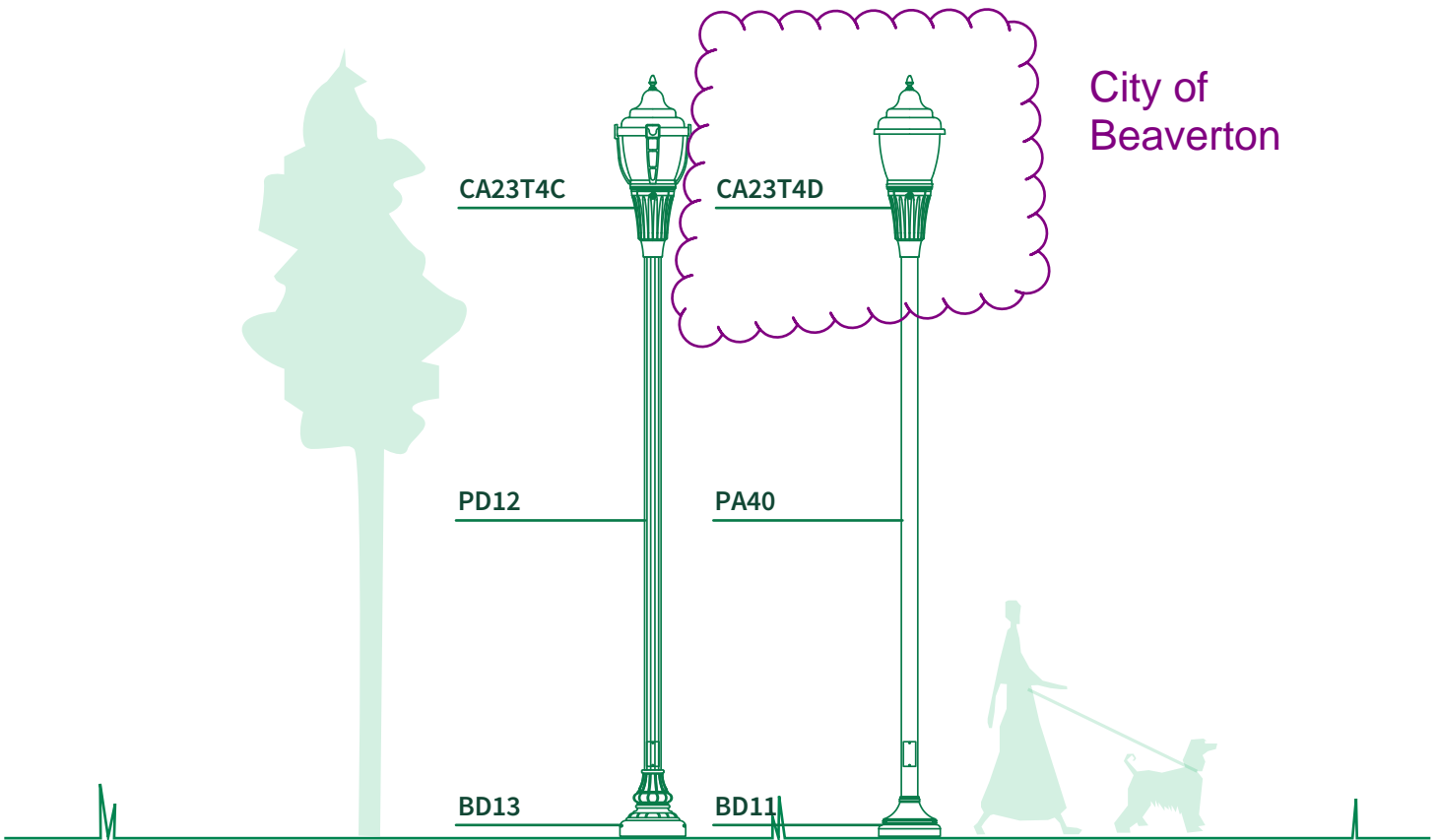
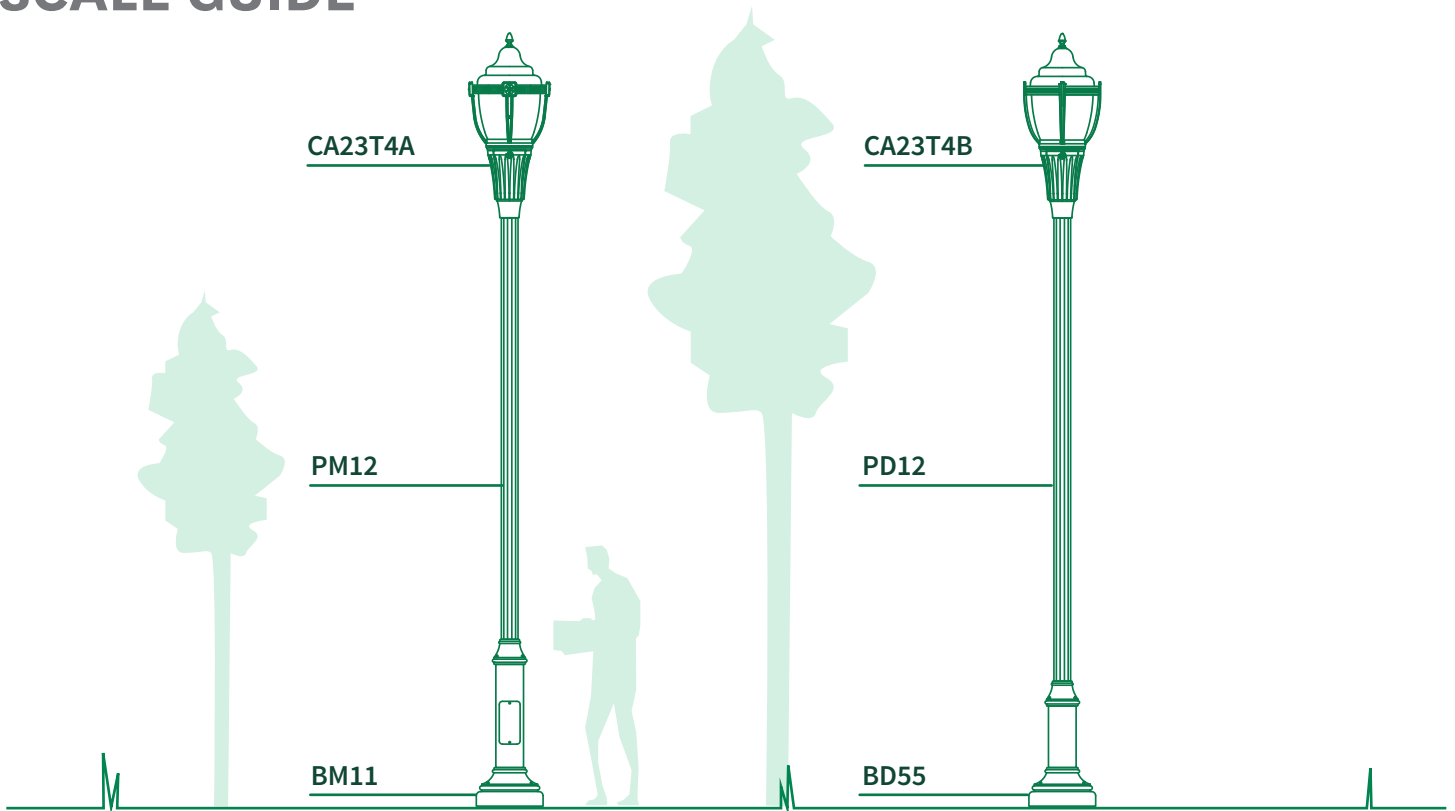
House Side Shield option

The HOUSE SIDE SHIELD (HS) give you a better back control for those LEED projects where light spill or light trespass are critical. This options can be added post installation.

Please consult website for latest IES files

Luminaire

SCALE GUIDE



Symphony

CA23T4A / CA23T4B / CA23T4C / CA23T4D

Ordering Template

MODEL	LENS	DIST.	WATT	CTT	VOLT	REDUCER	OPTIONS	COLOR	TEXTURE	OP.FIN.
CA23T4A	VS3AR	2	20W	3K	120	NONE	NONE	BK	TX	MG
CA23T4B	VS3AP	3	40W	4K	208	R28	PT ¹	DG	SM ²	
CA23T4C		3M	60W		240	R30	PTL ¹	MA		
CA23T4D		4	80W		277		PTDR ¹	SI ²		
		5	100W		347		PX ¹	BZ		
		2HS	120W		480		PROG	BG		
		3HS					SD	GM		
		3MHS						PG		
		4HS						WH		

¹ONLY ONE OF THESE OPTION CAN BE CHOSEN

ORDERING CODE



References

LENS

VS3AR GLOBE ACRYLIC RIBBED
VS3AP GLOBE ACRYLIC POND

DISTRIBUTION

HS INTERNAL HOUSE SHIELD
SEE PHOTOMETRIC PAGE FOR DETAILS

CTT

3K 3000K
4K 4000K

WATT

SEE PHOTOMETRIC PAGE FOR LUMEN OUTPUT

REDUCER

NONE FITS 4" O.D. X 3" LONG TENON
R28 REDUCER 4" O.D. TO 2 7/8" O.D. X 3" LONG TENON
R30 REDUCER 4" O.D. TO 3" O.D. X 3" LONG TENON

OPTIONS

NONE NONE
PT PHOTOCELL W/7-PIN RECEPTACLE (ANSI C136.41)
PTL LONG LIFE PHOTOCELL W/7-PIN RECEPTACLE (ANSI C136.41)
PTDR* 7-PIN RECEPTACLE (ANSI C136.41)
PX SHORTING CAP W/7-PIN RECEPTACLE (ANSI C136,41)
PROG* PROGRAMMABLE DRIVER
SD FIELD ADJUSTABLE 10% INCREMENT STEP-DIMMING SWITCH

*CONTACT FACTORY FOR WIRELESS APPLICATIONS AND FOR MORE DETAILS

COLOR

BK BLACK RAL9005
DG DARK GREEN RAL6012
MA MARINE BLUE RAL5013
SI² METALLIC SILVER RAL9006 (SMOOTH ONLY)
BZ DARK BRONZE RAL8019
BG BURGUNDY RAL3005
GM MOSS GREEN RAL6005
PG PALE GREY RAL7040
WH WHITE RAL9003

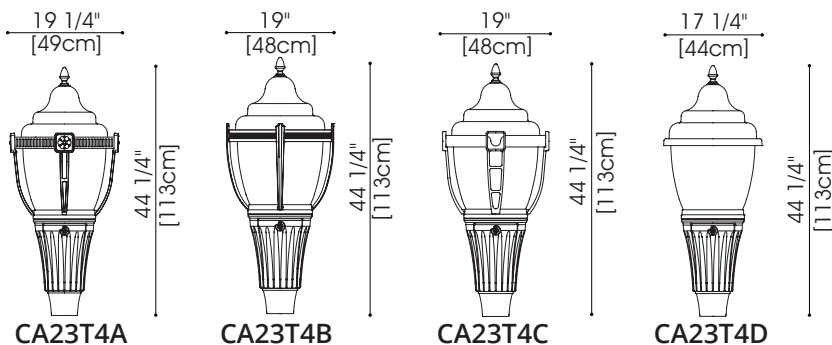
TEXTURE

TX TEXTURED
SM² SMOOTH

OP.FIN. (OPTIONAL FINISH)

MG MARINE GRADE PRE-FINISH

Luminaire



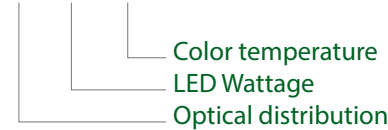
Symphony

CA23T4

SOURCE: LED 4000K ± 150K, 70 CRI minimum¹
 WATERPROOF RATING: IP66 optical system
 MAINTENANCE: Tool free utility series fitter
 Data based on luminaire using VS3AR (Globe acrylic ribbed)

LED code definition:

2 - 20W - 4K



Type 2

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM ²	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY ³
2-20W-4K	2308	105	20	22	350	B1-U1-G1	50W
2-40W-4K	4275	95	40	45	700	B1-U2-G1	70W
2-60W-4K	6412	96	60	67	700	B2-U2-G2	100W
2-80W-4K	8549	95	80	90	700	B2-U2-G2	150W
2-100W-4K	10687	95	100	112	700	B3-U2-G3	200W
2-120W-4K	12397	92	120	135	700	B3-U2-G3	250W

Type 3

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM ²	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY ³
3-20W-4K	2353	107	20	22	350	B1-U2-G1	50W
3-40W-4K	4358	97	40	45	700	B1-U2-G1	70W
3-60W-4K	6537	98	60	67	700	B2-U2-G2	100W
3-80W-4K	8716	97	80	90	700	B2-U2-G2	150W
3-100W-4K	10895	97	100	112	700	B3-U3-G3	200W
3-120W-4K	12638	94	120	135	700	B3-U3-G3	250W

Type 3M

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM ²	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY ³
3M-20W-4K	2362	107	20	22	350	B1-U2-G2	50W
3M-40W-4K	4374	97	40	45	700	B2-U2-G3	70W
3M-60W-4K	6561	98	60	67	700	B2-U2-G3	100W
3M-80W-4K	8749	97	80	90	700	B3-U2-G3	150W
3M-100W-4K	10936	98	100	112	700	B3-U2-G4	200W
3M-120W-4K	12686	94	120	135	700	B3-U3-G4	250W

¹IES-TM-21 Calculated L70 is over 363 000 hours.

IES-TM-21 Reported more than 54 000 hours.

²System wattage includes the LED and the Driver.

³Equivalency should always be verified by photometric layout.

*4000K used for testing, 3000K photometrics is available on website.

Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Cyclone Lighting. Cyclone Lighting reserves the right to substitute materials or change the manufacturing process of its products without prior notification. See the latest results and updates on our website at www.cyclonelighting.com

Symphony

CA23T4

SOURCE: LED 4000K ± 150K, 70 CRI minimum¹
 WATERPROOF RATING: IP66 optical system
 MAINTENANCE: Tool free utility series fitter
 Data based on luminaire using VS3AR (Globe acrylic ribbed)

LED code definition:

2 - 20W - 4K

Color temperature
 LED Wattage
 Optical distribution



Type 4

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM ²	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY ³
4-20W-4K	2263	103	20	22	350	B1-U1-G1	50W
4-40W-4K	4191	93	40	45	700	B1-U2-G1	70W
4-60W-4K	6287	94	60	67	700	B2-U2-G2	100W
4-80W-4K	8382	93	80	90	700	B2-U2-G2	150W
4-100W-4K	10478	94	100	112	700	B3-U2-G3	200W
4-120W-4K	12154	90	120	135	700	B3-U3-G3	250W

Type 5

LED CODE	LUMEN OUTPUT	EFFICACY (LM/W)	WATTAGE LED	WATTAGE SYSTEM ²	LED CURRENT (mA)	BUG RATING	HID EQUIVALENCY ³
5-20W-4K	2520	115	20	22	350	B2-U2-G1	50W
5-40W-4K	4667	104	40	45	700	B3-U2-G2	70W
5-60W-4K	7000	104	60	67	700	B3-U2-G2	100W
5-80W-4K	9334	104	80	90	700	B3-U2-G2	150W
5-100W-4K	11667	104	100	112	700	B4-U2-G3	200W
5-120W-4K	13534	100	120	135	700	B4-U3-G3	250W

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IES-TM-21 Reported more than 54 000 hours.

²System wattage includes the LED and the Driver.

³Equivalency should always be verified by photometric layout.

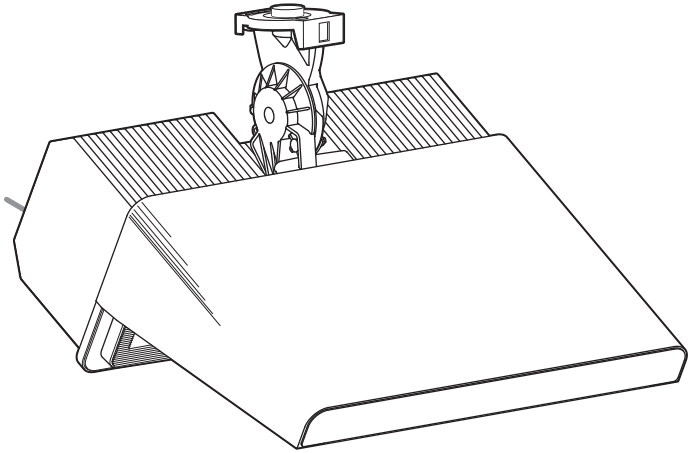
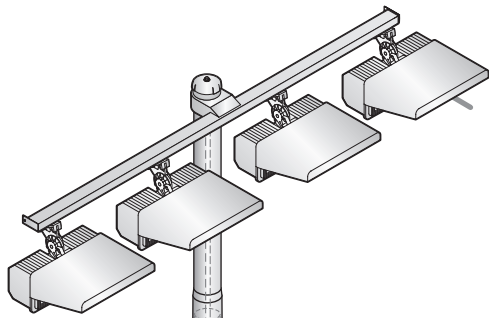
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CA23T4A

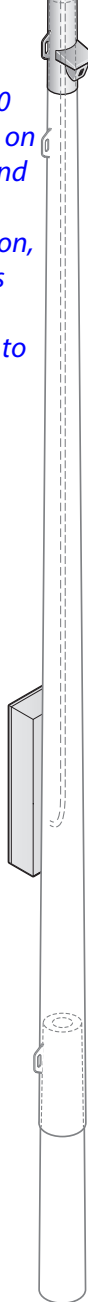


Luminaire and Driver – TLC-LED-1500



Note from Interface Engineering:

This cut sheet is for the 1500 watt luminaire. Depending on the pole height, location, and how many lumens are required at a specific location, there will be multiple heads and different wattages ranging from 575 watts up to 1500 watts for each pole.



Luminaire Data

Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094 (pending)
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0 (pending)
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (13.5k)	>81,000 h
L80 (13.5k)	>81,000 h
L70 (13.5k)	>81,000 h
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
Lumens ¹	156,100

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

Luminaire and Driver – TLC-LED-1500

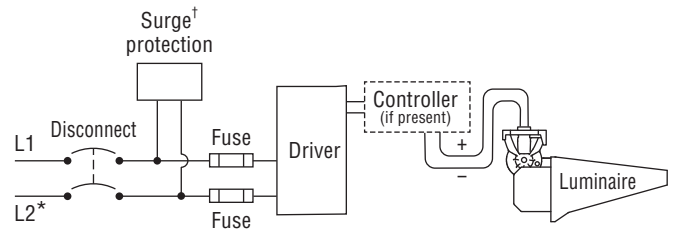
Driver Data

Typical Wiring

Electrical Data

Rated wattage¹

Per driver	1500 W
Per luminaire	1500 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μs
Fuse rating	15 A
UL, IEC ambient temperature rating, electrical components enclosure	45°C (113°F) - pending
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	11 – 100%
Range, light output	16 – 100%



* If L2 (com) is neutral then not switched or fused.
 † Not present if indoor installation.

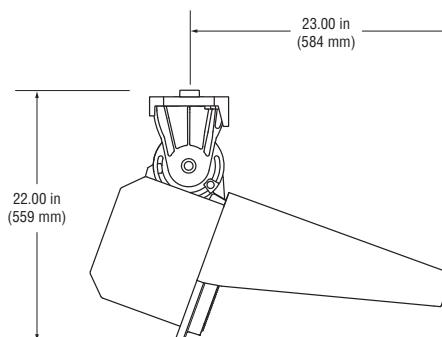
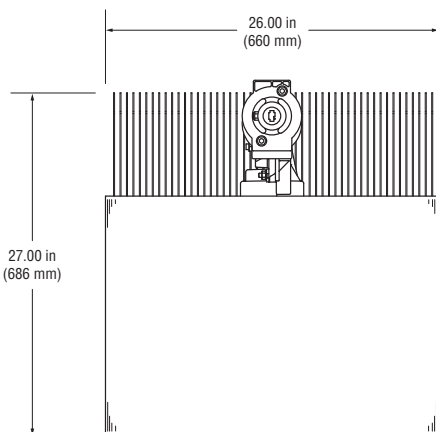
	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire ²	9.30 A	8.95 A	8.46 A	8.09 A	7.75 A	6.72 A	5.36 A	4.90 A	4.65 A	4.49 A	3.88 A

Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.



Site Lighting - Luminaire Cutsheets

Beaverton High School Replacement, Phase 2
2022-0662

Prepared for:

BRIC Architecture

Prepared by:

Kayla Burke

April 3, 2023

Invue

DESCRIPTION

The LuxeScape Collection presents a contemporary, architectural dayform providing superior uniformity and efficient illumination. Designed to enhance urban spaces with beautiful visual appearances and integral control solutions, LuxeScape integrates into any environment while providing high visibility by utilizing industry-leading WaveStream™ LED optics.

SPECIFICATION FEATURES

Construction

Housing assembly is IP66 rated and cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. 3G rated construction avoids damages from installation generated vibration. Corrosion-resistant color matching hardware are minimized to enhance appearance.

Optics

Designed for complex site or pedestrian applications, WaveStream™ LED optical waveguide technology produces both symmetric NEMA Type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic delivering visual comfort and optically controlled illumination for improved glare control. Luminaire efficacy measures in excess of 100 lm/W for 4000K (+/- 275K) CCT at 70 CRI (min). Optional 3000K CCT at 70 CRI or 3000K CCT at 80 CRI also available.

Electrical

LED drivers are uniquely positioned and mounted for

maximum thermal performance and extended life. Standard 0-10V dimming drivers and surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V 60Hz or 480V 60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). High ambient options available allow for 50°C operation.

Controls

Control options are designed to be simple, cost-effective, energy code, and regulation compliant solutions featuring WaveLinX. See control options page for more details.

Mounting

Invue's aluminum round decorative pole (ARP) offering provides a seamless transition and compliments the contemporary design architecture with its unique sleek taper and base design. The tenon mount pole comes standard with an access door feature integrated into the base. **Arm Mount** The integrated aluminum contemporary upsweep arm is bolted directly to the pole using

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

an "N" drill pattern. Provides a seamless transition to a 4" or 5" round pole.

Spider & Cantilever Mount

Fitter assembly mounts over 3" O.D. tenon and can be adapted to a 2-3/8" tenon. It is secured via concealed, corrosion resistant set screw and jam screw pairs in six inconspicuous locations. Fitter design provides seamless transition to 4" O.D. round pole top. Optional mounting accessories include a twin arm mount and wall mount arm.

Finish

Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC based polyester powder coatings specifically formulated to withstand extended outdoor exposure while providing decorative appeal. Finish is compliant to 3,000 hour salt spray standard (per ASTM B117). RAL and custom color matches available. Options to meet Buy American Act requirements.

Warranty

Five-year warranty.



LXS LUXESCAPE COLLECTION

DECORATIVE LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed
FCC Class A
IEC 60529 IP66 Housing
ANSI C136.31 3G Vibration
ASTM A356.0 Low Copper Alloy
ASTM B117 Salt Spray Tested
RoHS
ISO 9001
DesignLights Consortium® Qualified*
Dark Sky Approved (3000K CCT and warmer only)

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V 60Hz, 480V 60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

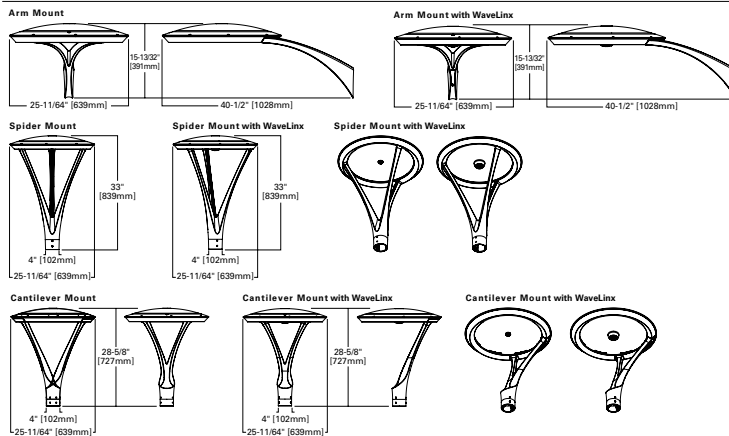
EPA

Effective Projected Area: (Sq. Ft.)
Arm Mount: 1.0
Cantilever Mount: 1.3
Spider Mount: 1.6

SHIPPING DATA

Approximate Net Weight:
Arm Mount Weight: 41 lbs. [18.6 kgs.]
Cantilever Mount Weight: 46 lbs. [20.8 kgs.]
Spider Mount Weight: 53 lbs. [24 kgs.]

DIMENSIONS



*www.designlights.org

TD500059EN
August 24, 2022 6:02 PM

ORDERING INFORMATION

Sample Number: LXS-VA3-LED-D1-T2-GM-S

Product Family ^{1,2}	Optic Type	Lumen Package ³	CRI/CCT	Voltage	Distribution	Mounting	Finish				
LXS=LuxeScape Collection BAA-LXS=LuxeScape Collection Buy American Act Compliant ²⁶	VA=Visual Comfort / WaveStream	1=Nominal 2,300 Lumens 2=Nominal 4,500 Lumens 3=Nominal 8,500 Lumens 4=Nominal 9,500 Lumens ⁴	730=70 CRI / 3000K 735=70 CRI / 3500K 740=70 CRI / 4000K 830=80 CRI / 3000K 835=80 CRI / 3500K AMB=Amber 590nm ^{22, 25}	U=120- 277 1=120 2=208 3=240 4=277 8=480 ^{5, 6} 9=347 ⁵	ASC=Asymmetric Curbline ⁷ ASW=Asymmetric Wide ⁸ AST=Asymmetric Transverse ⁹ SYM=Symmetric Round ¹⁰	A=Arm Mount S=Spider Mount C=Cantilever Mount	AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color ¹¹				
Options (Add as Suffix)				Accessories (Order Separately) ^{20, 27}							
F=Single Fuse ¹² FF=Double Fuse ¹³ X=Driver Surge only 10MSP=10K MOV Surge Protective Device 20MSP=20K MOV Surge Protective Device 20K=20K UL 1449 Fused Surge Protective Device DIM=External 0-10V Dimming Leads ¹⁴ HA=50°C High Ambient Temperature ¹⁵ VS=Vandal Shield ¹⁶ MUSA=Final Assembly in the USA ¹⁷ CC=Coastal Construction ¹⁸ DALI=DALI Driver ¹⁹ BPC=Button Type Photocontrol ²⁰ PR=NEMA 3-PIN Twistlock Photocontrol PC=Twistlock NEMA Photocontrol PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ²¹ PC=Twistlock NEMA Photocontrol LLPCL=Long Life Twistlock NEMA Photocontrol ²⁴ SC=Shorting Cap MS-L08=Motion Sensor for ON/OFF Operation, Up to 8' Mounting Height ^{22, 23, 24}				MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{22, 23, 24} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{22, 23, 24} MS/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height ^{22, 23, 25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{22, 23, 25} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{22, 23, 25} DIM10=Synapse Integrated Control Module ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle ^{27, 28, 38, 39} ZD=SR Driver-enabled 4-PIN Twistlock Receptacle ^{27, 28, 38, 39} ZW-WOBWH=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ZW-WOFWH=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ZD-WOBWH=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ZD-WOFWH=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ZW-SWPD4WH=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{27, 28, 38, 39} ZW-SWPD5WH=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{27, 28, 38, 39} ZD-SWPD4WH=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{27, 28, 38, 39} ZD-SWPD5WH=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{27, 28, 38, 39}				FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁹ ARPA2=2-3/8" O.D. Tenon Sleeve Adapter ³¹ VA6028-XX=Twin Mount Arm (EPA 1.36 sq./ft.) ^{31, 32} VA6029-XX=Wall Mount Arm ^{31, 32} MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon ³² MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon ³² MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon ³² MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon ³² MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon ³² MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon ³² MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon ³² WOLC-7P-10A=WaveLinX Outdoor Control Module (7-PIN) ³³ WOB-WH=WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting WOF-WH=WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting SWPD4-WH=WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{27, 28, 38, 39} SWPD5-WH=WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{27, 28, 38, 39}			

NOTES:

1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP913001EN for additional support information. 2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3. Lumens are nominal. See lumen table for more information. 4. 9,500 Lumen package available only on SYM distribution. 5. Requires the use of a step-down transformer. 6. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 7. IESNA Type III typical. 8. IESNA Type IV typical. 9. IESNA Type IV typical. 10. IESNA Type V typical. 11. Specify RAL number for Custom Color. Custom color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg. 13. Must specify voltage (208V, 240V, or 480V) to fuse the both hot legs. 14. Low voltage control leads brought out 18" outside fixture. Not available with control options. 15. Not available in VA3 with Type ASC, ASW and AST distributions. 16. Reduce total lumens by 0.95 multiplier to accommodate losses. 17. This designates the option for final assembly performed within the USA and USA territories. This is not intended to address all the Federal Acquisition Regulation (FAR) and Defense Federal Acquisition Regulation (DFAR) clauses. 18. Post-coating over the primary finish providing 7,000+ salt spray hours. Extended lead-times can be 4 - 10 additional weeks. 19. Only available with VA3 and VA4 lumen packages. 20. Not available with MS-LX, MS/DIM-LXX, LWR-LW, LWR-LN or 347V or 480V options. 21. Not available with MS-LX, MS/DIM-LXX, LWR-LW, LWR-LN or 347V or 480V options. 22. Not available with HA option. 23. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 24. Approximately 22" detection diameter at 8' mounting height. 25. Approximately 40" detection diameter at 20' mounting height. 26. Approximately 100" detection diameter at 40' mounting height. 27. Cannot be used in conjunction with photocontrol or other controls systems (BPC, PR, PR7, MS). 28. NWAC Gateway required to enable field-configurability. Order WAC-POE and WPOE-120 (10V to POE injector) power supply if needed. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 29. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 30. Requires 7-PIN NEMA twistlock photocontrol receptacle. WOLC-7P-10A cannot be used in conjunction with additional sensors or controls. 31. Not vibration rated at this time. Consult your lighting representative at Cooper Lighting Solutions for more information. 32. Replace XX with color designation. 33. Requires ZV or ZD. 34. Requires photocontrol receptacle PR or PR7. 35. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package 1. See IES files for photometric performance. 36. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCE website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 37. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 38. Not available with SLTD option. 39. If ZD or ZW only, shorting cap will be installed on 4-pin receptacle. 40. Not available with 2300 or 9500 lumen package.

ARP ORDERING INFORMATION (ALUMINUM DECORATIVE POLE)

SAMPLE NUMBER: ARP5L310ABZ2

Product Family	Shaft Size (Inches) ¹	Wall Thickness (Inches)	Pole Top Diameter (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
ARP=Aluminum Round Tapered Decorative BAA-ARP=Aluminum Round Tapered Decorative Buy American Act Compliant ²⁶	5=5"	L=0.156" M=0.188"	3=3" O.D. ² 6=4" O.D. ³	10=10' 12=12' 14=14' 16=16' 18=18' ⁴ 22=22' ⁴	A=Aluminum (Round 4-Bolt Pole)	AP=Grey BA=Anodized Bronze BK=Black BZ=Bronze CA=Anodized Clear DA=Anodized Black DP=Dark Platinum GM=Graphite Metallic GN=Hartford Green WH=White	2=2-3/8" O.D. Tenon (4" Long) 5=3" O.D. Tenon (4" Long)	X=None	C=Convenience Outlet ⁵ E=GFIC Convenience Outlet ⁵ G=Ground Lug V=Vibration Damper ⁴

NOTES 1 All shaft sizes nominal. 2 Provides 3" O.D. pole top suited for Arbor Post Top. 3 Provides 4" O.D. pole top suited for LuxeScape post tops. 4 Vibration damper recommended over 18 feet add suffix "V" to catalog number. 5 Specify outlet location. Receptacle not included, provision only.

POWER AND LUMENS

Lumen Package			VA1	VA2	VA3	VA4	
Drive Current							
Power Wattage (Watts)*			24W	48W	96W	99W	
Input Current (mA) @ 120V			200	400	800	830	
Input Current (mA) @ 277V			90	180	350	360	
Power Wattage (Watts)*			28W	55W	114W	108W	
Input Current (mA) @ 347V			79	161	325	328	
Input Current (mA) @ 480V			58	117	235	237	
CRI/CCT (Nominal)	Mounting	Distribution					
730: 70CRI/3000K	A: Arm	ASC: Asymmetric Curbline	Lumens	1,949	3,740	6,730	--
			Lumens per Watt	81.2	77.9	68.0	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,323	4,458	8,022	--
			Lumens per Watt	96.8	92.9	81.0	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,400	4,607	8,291	--
			Lumens per Watt	100.0	96.0	83.7	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
	SYM: Symmetric Round	Lumens	2,485	4,958	9,111	10,571	
		Lumens per Watt	118.3	120.9	105.9	110.1	
		BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G3	
		IESNA Type	V	V	V	V	
	S: Spider Mount	ASC: Asymmetric Curbline	Lumens	1,780	3,417	6,148	--
			Lumens per Watt	74.2	71.2	62.1	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	2,097	4,024	7,242	--
			Lumens per Watt	87.4	83.8	73.2	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
AST: Asymmetric Transverse		Lumens	2,198	4,218	7,590	--	
		Lumens per Watt	91.6	87.9	76.7	--	
		BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--	
		IESNA Type	IV	IV	IV	--	
SYM: Symmetric Round	Lumens	2,305	4,600	8,452	9,807		
	Lumens per Watt	109.8	112.2	98.3	102.2		
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G3		
	IESNA Type	V	V	V	V		

POWER AND LUMENS

Lumen Package			VA1	VA2	VA3	VA4	
CRI/CCT (Nominal)	Mounting	Distribution					
830: 80CRI/3000K	C: Cantilever Mount	ASC: Asymmetric Curbline	Lumens	1,675	3,216	5,787	--
			Lumens per Watt	69.8	67.0	58.5	--
			BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	--
			IESNA Type	III	III	III	--
		ASW: Asymmetric Wide	Lumens	1,997	3,833	6,897	--
			Lumens per Watt	83.2	79.9	69.7	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	--
			IESNA Type	IV	IV	IV	--
		AST: Asymmetric Transverse	Lumens	2,096	4,024	7,241	--
			Lumens per Watt	87.3	83.8	73.1	--
			BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
			IESNA Type	IV	IV	IV	--
	SYM: Symmetric Round	Lumens	2,113	4,217	7,748	8,991	
		Lumens per Watt	100.6	102.9	90.1	93.7	
		BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G3	
		IESNA Type	V	V	V	V	

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

MINIMUM AMBIENT TEMPERATURE

Lumen Package	Temperature
VA1	-40°C
VA2	-35°C
VA3	-35°C
VA4	-40°C
All DALI powered lumen packages	-20°C

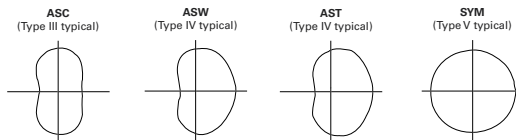
LUMEN MAINTENANCE (TM-21)

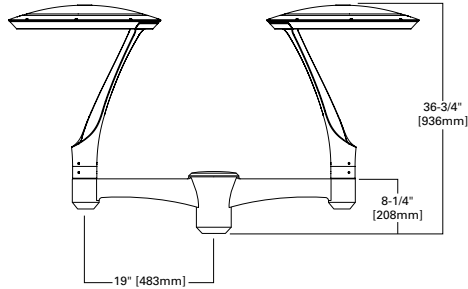
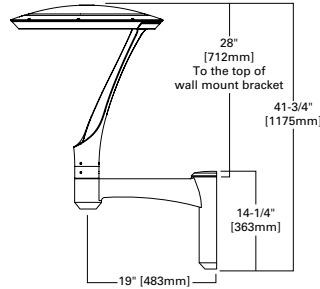
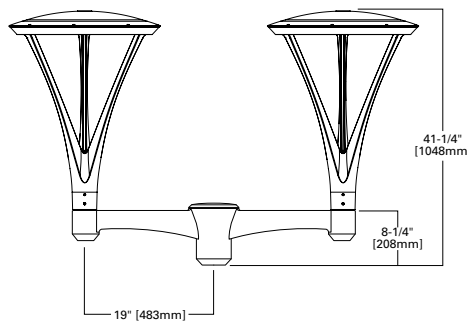
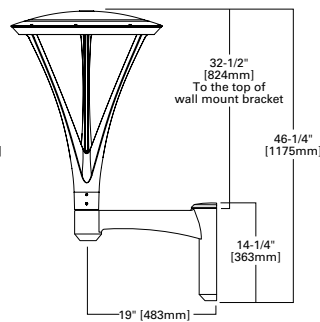
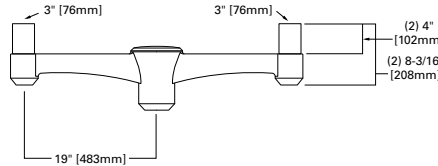
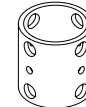
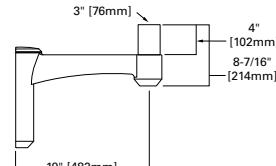
Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 (Hours)**
25°C	94.4%	90.4%	89.0%	83.0%	>199,000
40°C	94.6%	90.9%	89.4%	83.9%	>212,000
50°C	91.8%	87.0%	85.2%	78.2%	>151,000

NOTES:

* Supported by IESTM-21 standards

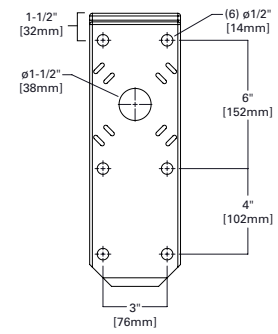
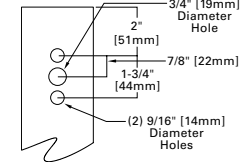
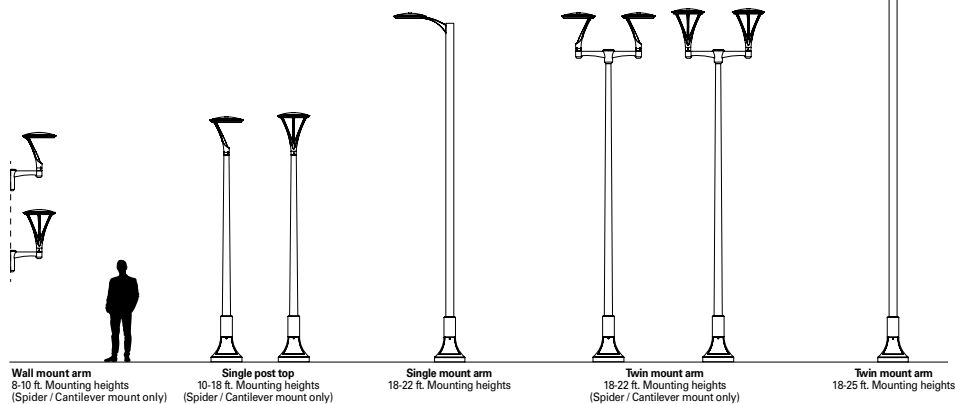
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IESTM-21 and LM-80.

OPTICAL DISTRIBUTIONS (Arm mount shown, distribution dependent on mounting)

MOUNTING CONFIGURATIONS (EPAS INCLUDES FIXTURE)
MOUNTING REQUIREMENTS CHART
Twin mount arm (shown with Cantilever mount)

Wall mount arm (shown with Cantilever mount)

Twin mount arm (shown with Spider mount)

Wall mount arm (shown with Spider mount)

Twin mount arm (EPA 1.36)

Wall Mount Arm

ARP2*

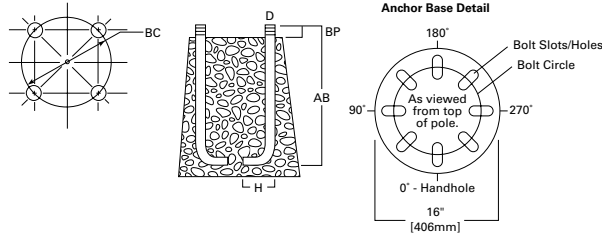
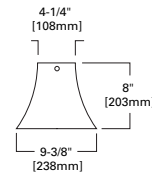
Pole Top O.D. (Inches)	4"	
Tenon O.D. (Inches)	2-3/8" Tenon	3" Tenon
Post Top	ARPA2*	Standard
Twin Mount Arm	ARPA2*	Standard

* Required for stability. Order separately.

WALL MOUNT ARM DRILL PATTERN

TYPE "N"

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)

 Cooper Lighting Solutions
 1121 Highway 74 South
 Peachtree City, GA 30269
 P: 770-486-4900
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

 TD500059EN
 August 24, 2022 6:02 PM

ANCHORAGE DATA

ACCESS DOOR


Pole	Anchor Bolt and Template Package	Shaft Diameter (inches)	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)	Template Only
Aluminum Round Decorative Pole (ARP)	317AVE30	4 x 5	9	4	3/4 x 17	407040D

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
								80 mph	90 mph	100 mph	
MH			BC	BP	B	AB ¹		80 mph	90 mph	100 mph	
10	ARPSL310A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	57	20.0	17.5	14.1	120
10	ARPSL610A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	57	17.0	13.3	10.7	120
12	ARPSL312A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	62	18.2	14.1	11.2	120
12	ARPSL612A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	62	14.1	10.9	8.7	120
14	ARPSL314A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	67	14.8	11.4	9.0	120
14	ARPSL614A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	67	11.7	9.0	7.1	120
16	ARPSL316A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	72	12.0	9.1	7.0	120
16	ARPSL616A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	72	9.4	7.1	5.6	120
18	ARPSL318A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	77	9.5	7.1	5.4	120
18	ARPSL618A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	77	7.6	5.6	4.3	120
18	ARPSM618A	0.188	9.0	3.5	5 X 4	3/4 x 17 x 3	83	9.5	7.1	5.6	120

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
								80 mph	90 mph	100 mph	
MH			BC	BP	B	AB ¹		80 mph	90 mph	100 mph	
10	ARPSL310A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	57	19.6	15.3	12.3	120
10	ARPSL610A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	57	17.0	13.3	10.7	120
12	ARPSL312A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	62	16.1	12.5	9.9	120
12	ARPSL612A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	62	14.1	10.9	8.7	120
14	ARPSL314A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	67	13.2	10.1	8.0	120
14	ARPSL614A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	67	11.7	9.0	7.1	120
16	ARPSL316A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	72	10.6	8.0	6.2	120
16	ARPSL616A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	72	9.4	7.1	5.6	120
18	ARPSL318A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	77	8.5	6.4	4.8	120
18	ARPSL618A	0.156	9.0	3.5	5 X 4	3/4 x 17 x 3	77	7.6	5.6	4.3	120
18	ARPSM618A	0.188	9.0	3.5	5 X 4	3/4 x 17 x 3	83	9.5	7.1	5.6	120

LUMINIS®

BVA21/BVA31/BVA32 SERIES

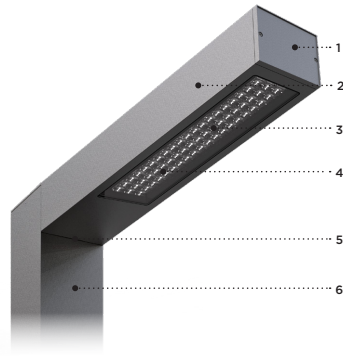
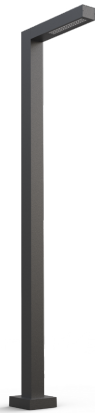
Bellevue

POLE MOUNT

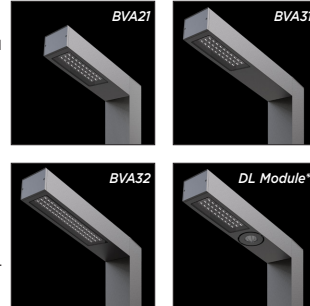
TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER:

MODEL LED LIGHT SELECTION POLE VOLTAGE FINISH OPTION OPTION OPTION



- 1- Front cover constructed of corrosion resistant cast aluminum.
- 2- 4.5" (114mm) x 6" (152mm) Extruded aluminum optical chamber.
- 3- Modular LED boards with acrylic optics. 30 or 60 LEDs configurations available.
- 4- Clear tempered glass.
- 5- Heavy gauge steel mounting plate with leveling adjustment (5" total). Head mounting height can be customized upon request (contact factory).
- 6- 6" (152mm) x 6" (152mm) 6061-T6 aluminum pole. 0.25" wall thickness. All stainless steel hardware.



* BVA31-DL Module with aimable point source optic.

MATERIALS

Bellevue is made of 6063-T6 extruded aluminum alloy. Cast parts are made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.

LED board is assembled on a thick extruded aluminum profile and protected by a clear tempered glass. The acrylic optics provide a wide range of roadway optics. The driver is mounted either in the pole access door (Single Head Configuration) or in the pole top cap (P2, P290, P3, P4) for ease of maintenance.

ELECTRICAL

DRIVER Standard driver is 120-277V multi-volt compatibility (50-60Hz), 0-10V dimming-ready (dims to 10%). Optional 347/480V, operating temperatures of -40°C/-40°F to 55°C/131°F, output over voltage protection, output over current protection, output short circuit protection with auto-recovery.

LED Type II, III, IV or V light distribution via high performance optical lenses. Offered in 2700K, 3000K, 3500K, 4000K. See the CCT options for details. Optional true amber LED for turtle sensitive areas. Wavelengths: 585nm to 597nm.

LIFETIME

60,000hrs L_{70} , B_{50} (based on LM-80 report for lumen maintenance).

FINISH

Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

Certified and Approved as per CSA C22.2 No.: 250.0 standard and ANSI/UL 1598 standard, for wet location. Rated IP65.

Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards.

MOUNTING

Maximum weight: 21 lbs (9.5 kg)

Bellevue is designed for ease of access and installation.

The head is secured on the pole by a set of (4) 5/16-18 bolts.

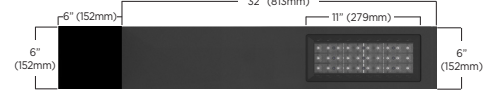
The cast aluminum base plate is secured with a set of (4) 3/4"-10 x 18" lg. galvanized anchor bolts. Accessibility is done through a flush mount 3" x 10" (76 x 254) hand hole cover plate. See page 4 for pole base mounting details.

BVA21



EPA value: 0.75 ft²

BVA31



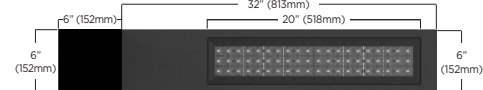
EPA value: 1.2 ft²

BVA31-DL



EPA value: 1.2 ft²

BVA32



EPA value: 1.2 ft²



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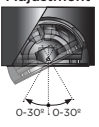
BVA21/BVA31/BVA32 SERIES

Bellevue

LUMINAIRE SELECTION - BVA21/BVA31


1 MODEL	2 LED LIGHT SELECTION WHITE (4000K/70CRI)	3 POLE ¹⁰	4 VOLTAGE ¹	5 FINISH																																																																						
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Vertical Adjustment



0-30° / 0-30°

360°



LED module is designed with a tilting mechanism allowing forward and back light adjustability. The +_30° directional module allows to aim the light beam in the desired direction. Fully adjustable 360° rotation.



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BVA21/BVA31/BVA32 SERIES

Bellevue

LUMINAIRE SELECTION - BVA32

1 MODEL	2 LED LIGHT SELECTION WHITE (4000K/70CRI)			3 POLE ¹⁰	4 VOLTAGE ¹	5 FINISH	
 <input type="checkbox"/> BVA32	TYPE II	SUFFIX	DELIVERED LUMENS*	INPUT WATTS	POLE MODEL HEIGHT <input type="checkbox"/> BVP610 120" <input type="checkbox"/> BVP612 144" <input type="checkbox"/> BVP614 168" <input type="checkbox"/> BVP616 192" <input type="checkbox"/> BVP618 216" <input type="checkbox"/> BVP620 240"	<input type="checkbox"/> 120V <input type="checkbox"/> 208V <input type="checkbox"/> 240V <input type="checkbox"/> 277V Optional <input type="checkbox"/> 347V <input type="checkbox"/> 480V	STANDARD COLORS* <input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel gray <input type="checkbox"/> BGT English cream
		<input type="checkbox"/> L2L80-TYP2	7978	68			
		<input type="checkbox"/> L2L100-TYP2	10050	88			
		<input type="checkbox"/> L2L120-TYP2	12038	110			
		<input type="checkbox"/> L2L140-TYP2	13948	131			
		<input type="checkbox"/> L2L80-TYP3	7978	68			
		<input type="checkbox"/> L2L100-TYP3	10050	88			
		<input type="checkbox"/> L2L120-TYP3	12038	110			
		<input type="checkbox"/> L2L140-TYP3	13948	131			
		<input type="checkbox"/> L2L80-TYP4	7445	68			
	<input type="checkbox"/> L2L100-TYP4	9378	88				
	<input type="checkbox"/> L2L120-TYP4	11234	110				
	<input type="checkbox"/> L2L140-TYP4	13016	131				
	<input type="checkbox"/> L2L80-TYP5	8244	68				
	<input type="checkbox"/> L2L100-TYP5	10385	88				
	<input type="checkbox"/> L2L120-TYP5	12441	110				
	<input type="checkbox"/> L2L140-TYP5	14414	131				
AMBER LED LIGHT SELECTION - TURTLE FRIENDLY							
	TYPE II	SUFFIX	DELIVERED LUMENS*	INPUT WATTS			
		<input type="checkbox"/> L2LK2A-TYP2	3570	28			
	TYPE III	<input type="checkbox"/> L2LK2A-TYP3	3570	28			
	TYPE IV	<input type="checkbox"/> L2LK2A-TYP4	3331	28			
	TYPE V	<input type="checkbox"/> L2LK2A-TYP5	3689	28			
OPTIONAL COLORS							
		<input type="checkbox"/> CS Custom color					
		<input type="checkbox"/> RAL RAL# color					
		*Refer to color chart					

OPTIONS

ELECTRICAL

- FS Fuse
- PHSC NEMA C136.41 7-PIN receptacle with shorting cap preinstalled
- PH7 NEMA C136.41 7-PIN receptacle with photocell sensor preinstalled
- SP 10kV surge protector
- MS Motion sensor device (high/low 25%), 270° coverage.⁴
- MSH In-head motion sensor device (high/low 25%), 300° coverage.^{4,9}

CCT/CRI

Alternate CCT °K LED (LCF: Lumen conversion factor)

- K27E 2700K / 70 CRI (LCF 0.91)
- K30E 3000K / 70 CRI (LCF 0.94)
- K35E 3500K / 70 CRI (LCF 0.983)
- K40E 4000K / 70 CRI
- K35 3500K / 80 CRI (LCF 0.8)
- K40 4000K / 80 CRI (LCF 0.83)
- HS House side shield³ (LCF 0.8)

NOTE: Other CCT & higher CRI available, please consult factory.

CONTROL

- NLTAIR2 In-head nLight AIR 2.0 Motion Sensor. 300° coverage.^{4,8}

FAUX WOOD COLORS¹¹

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> ADG American douglas | <input type="checkbox"/> MPL Maple |
| <input type="checkbox"/> BRC Birch | <input type="checkbox"/> OFL Oak |
| <input type="checkbox"/> CHN Chestnut | <input type="checkbox"/> RSW Rosewood |
| <input type="checkbox"/> CRY Cherry | <input type="checkbox"/> TEK Teak |
| <input type="checkbox"/> KNP Knotty pine | <input type="checkbox"/> WLN Walnut |

POLE OPTIONS (see page 4 for details)

- GFI Ground fault circuit interruption flush receptacle²
- CGF Ground fault circuit interruption with clear in-use cover²
- T15 Arm mounted on a 15° tilt. Note that the distribution of the illumination will be affected by the angle.⁷

Multiple mountings⁵

- P2 Twin mount @ 180°
- P290 Twin mount @ 90°
- P3 Triple mount @ 90°
- P4 Quadruple mount
- PCST Custom configuration. See separate custom configuration form to fill in the information

NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- GFI and CGF options are installed 30" above grade on access door side. CGF cover protrudes by 3.62" (92mm). 120V required for GFI or CGF.
- 3- HS not available on Type V. Cannot be installed on site.
- 4- Not compatible with PHSC and PH7 options.
- 5- For multiple mounting please verify with your local wind zone and with a recognized authority.
- 6- Amber, K27 and K35 options not available with the R9 optics.
- 7- T15 pole angled top cover only with Single Head Configuration.
- 8- Must link to external nLight Air network.
- 9- Not Available in 480V.
- 10- For 14' to 20' poles installed in Canada, consult factory.
- 11- Faux wood finish not applied to the fixture head, base cover or hand-hole.



For IDA certification compliance, luminaire must be ordered with 3000K or warmer.

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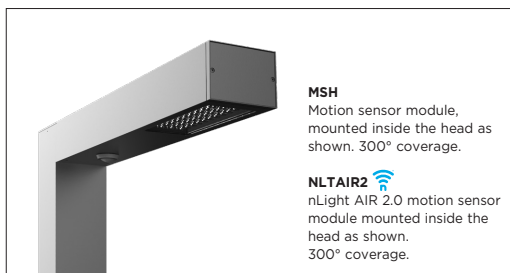
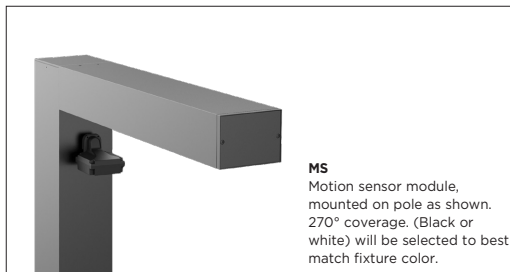
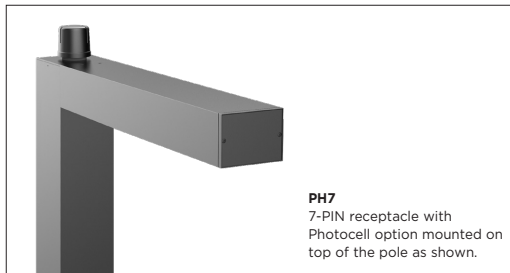
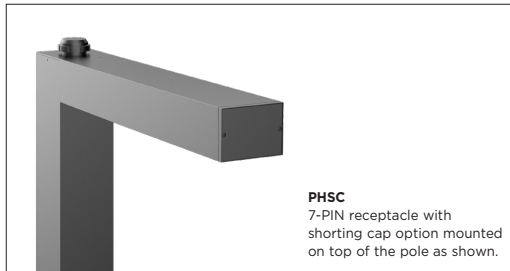
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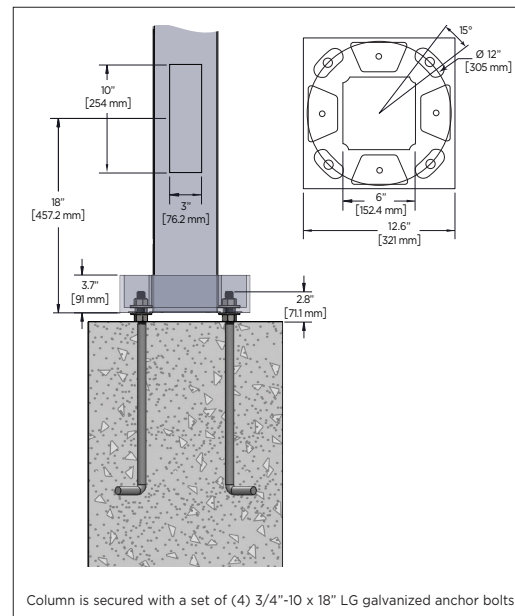
| 3

BVA21/BVA31/BVA32 SERIES
Bellevue

ELECTRICAL DETAILS



MOUNTING INFORMATION



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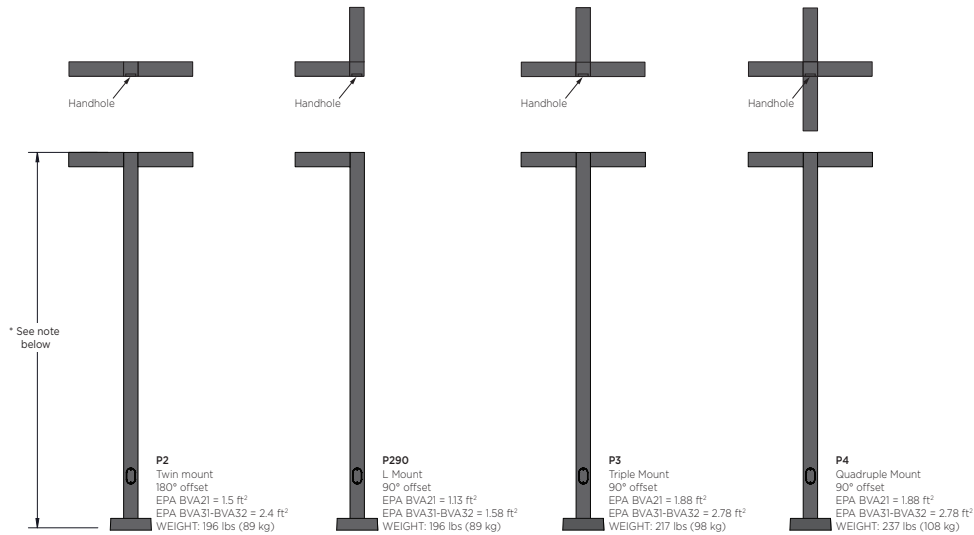
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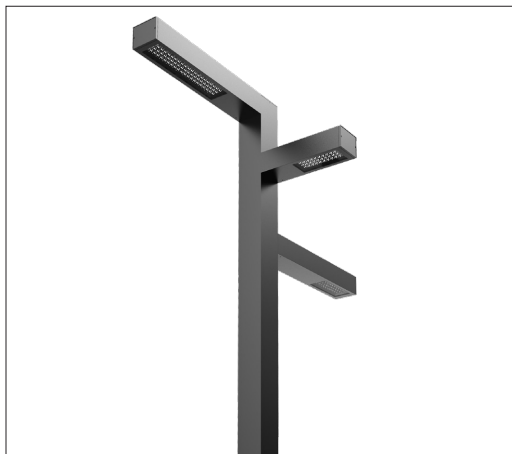
BVA21/BVA31/BVA32 SERIES
Bellevue

POLE OPTIONS - MULTIPLE MOUNTINGS



* Mounting configurations shown on this page are for 20ft height pole at 100mph wind. For different mounting configurations and wind zones please consult with factory and structural engineer. To specify these assemblies: Fixture quantity should be total number of fixture heads, and include the pole number and pole options. For 14' to 20' poles installed in Canada, consult factory.

PCST CUSTOM CONFIGURATION (See separate order form for details)



T15 15° tilt in arm



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Invue

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction

Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics

Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical

LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance.

Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls

The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting

Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin

fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish

Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS to serve functionally as well as decorative. Good film appearance combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard. Options to meet Buy American Act requirements.

Warranty

Five-year warranty.

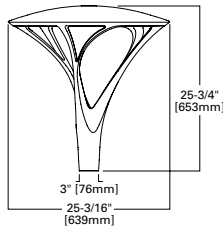


ARB ARBOR POST TOP

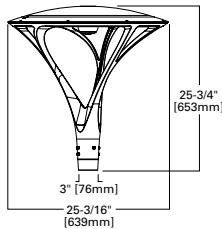
DECORATIVE LUMINAIRE

DIMENSIONS

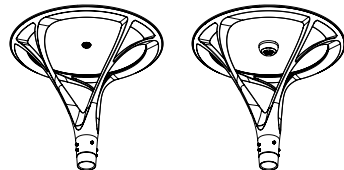
Pole Mount



Pole Mount with WaveLinX



Pole Mount with WaveLinX



CERTIFICATION DATA

UL/cUL Listed
 IEC 60529 IP66 Housing
 ASTM B117 SaH Spray Tested
 ASTM A3560 Low Cooper Alloy
 ISO 9001
 Dark Sky Approved (3000K CCT and warmer only)
 ANSI C136.31 3G Vibration Tested (Post Top)
 ANSI C136.31 1.5G Vibration Tested (Twin Mount / Accessory Arm Mount)

ENERGY DATA

Electronic LED Driver
 >0.9 Power Factor
 <20% Total Harmonic Distortion
 120-277V 50/60Hz, 347V/60Hz,
 480V/60Hz
 40°C Ambient Temperature Rating
 As low as -40°C (-40°F) minimum temperature
 *See MINIMUM TEMPERATURE table

EPA

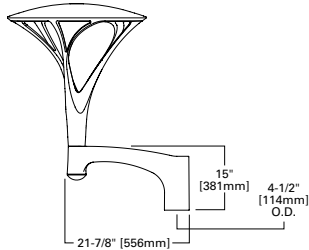
Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
 37 lbs. [16.8 kgs.]

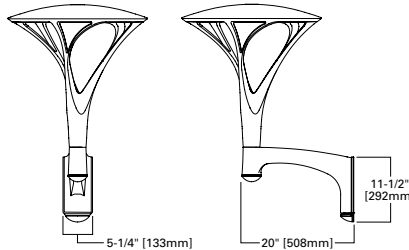
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MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)

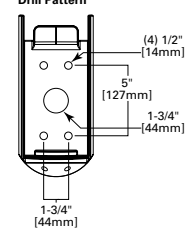
Single Arm Mount (ARSA-XX)
Weight: 56 lbs. [25.45 kgs.]
EPA: 1.7 Sq. Ft.



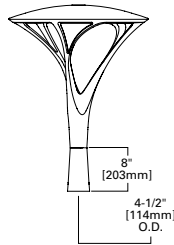
Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 kgs.]
EPA: 1.8 Sq. Ft.



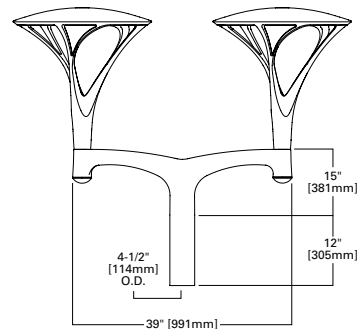
Wall Mount Arm Drill Pattern



Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 kgs.]
EPA: 1.2 Sq. Ft.



Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 kgs.]
EPA: 3.45 Sq. Ft.

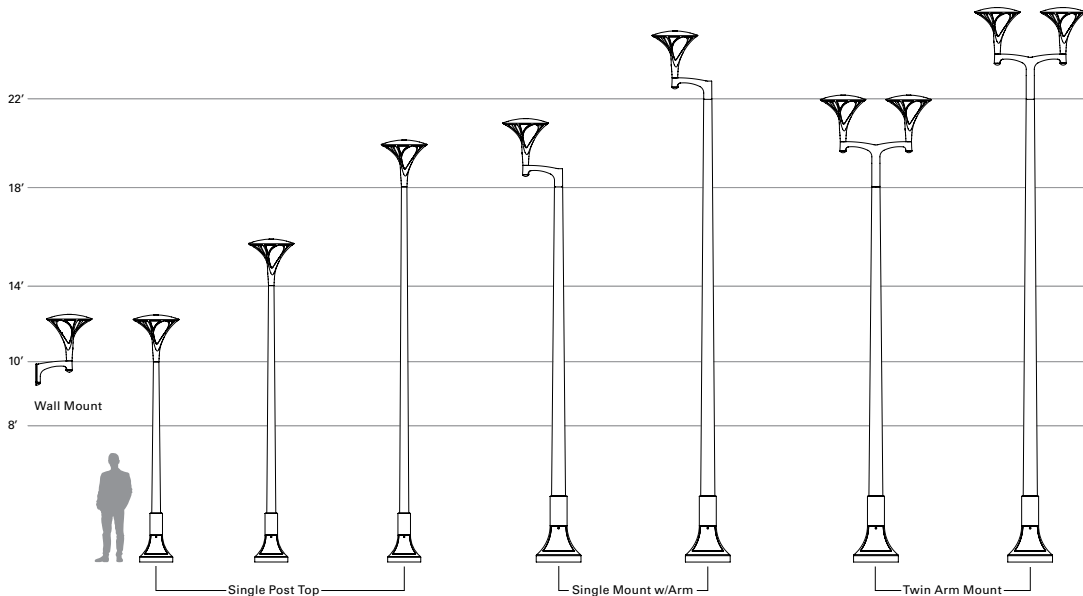


MOUNTING REQUIREMENTS CHART

Tenon O.D. (Inches)	2-3/8" Tenon		
Pole Top O.D. (Inches)	3"	4"	5"
Post Top	Standard	Spacer (Provided) & ARPA4-XX (Order Separately)	Spacer (Provided) & ARPA4-XX (Order Separately)
Single Arm Mount	Spacer (Provided)	Spacer (Provided)	Spacer (Provided)

Tenon O.D. (Inches)	3" Tenon	
Pole Top O.D. (Inches)	4"	5"
Post Top	ARPA4-XX (Order Separately)	ARPA4-XX (Order Separately)
Single Arm Mount	Standard	Standard
Twin Mount	Standard	Standard

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)



ORDERING INFORMATION

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family ^{1,2}	Lumens ³	Lamp Type	Voltage	Distribution	Color ⁷
ARB=Arbor Post Top BAA-ARB=Arbor Post Top Buy American Act Compliant ²⁵	B1=Nominal 2,300 Lumens B2=Nominal 4,500 Lumens B3=Nominal 8,500 Lumens B4=Nominal 9,500 Lumens ⁴	LED=Solid State Light Emitting Diodes	D1=Dimming Driver (120-277V) 347=347V ⁵ 480=480V ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)			Accessories (Order Separately) ^{19,26}		
7030=70 CRI / 3000K CCT ⁸ 7035=70 CRI / 3500K CCT ⁸ 8030=80 CRI / 3000K CCT ⁸ 8035=80 CRI / 3500K CCT ⁸ AMB=Amber 590nm ^{11,27} 20MSP=20kV MOV Surge Protective Device 20K=20kV UL 1449 Fused Surge Protective Device PC=Button Type Photocontrol PER=NEMA 3-PIN Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle HA=50°C High Ambient Temperature ¹ SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ²³ SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ²³ SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ²³ MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{10,11} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{10,11} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{10,11} MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{10,11} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{10,11} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{10,11} ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle ^{10,12,13,15,19,29,30} ZD=SR Driver-enabled 4-PIN Twistlock Receptacle ^{10,12,13,15,19,29,30} ZW-WOBWH=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ZW-WOFWH=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ZD-WOBWH=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting ZD-WOFWH=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting ZW-SWPD4WH=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{10,12,13,15,19,29,30} ZW-SWPD5WH=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{10,12,13,15,19,29,30} ZD-SWPD4WH=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{10,12,13,15,19,29,30} ZD-SWPD5WH=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{10,12,13,15,19,29,30} LWR-LW=Enlightened Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{10,18} LWR-LN=Enlightened Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{10,18} SLTD=5th Light Dali Driver ^{16,17} DIM=0-10V External Dimming Leads ^{10,18} VS=Tempered Glass Vandal Shield CC=Coastal Construction ²⁴ SPBL2=FDP-301-L2 (Wattstopper DALI sensor) SPBL4=FDP-301-L7 (Wattstopper DALI sensor) TH=Toolless hardware F=Single Fuse ²⁸			ARSA-XX=Single Pole Mount Arm ²⁰ ARWM-XX=Wall Mount Arm ARTA15-XX=Twin Mount Bracket ²¹ ARPA4-XX=Pole Adapter 4" O.D. Pole FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²¹ WOLC-7P-10A=WaveLinX Outdoor Control Module (7-PIN) ^{10,22} WOB-WH= WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting WOF-WH= WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting SWPD4-WH= WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{10,15,19,29} SWPD5-WH= WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{10,15,19,29}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
- Fixture sliffts over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
- Standard 4000K CCT, nominal 70CRI.
- B4 only available with Type V distribution.
- Requires the use of a step down transformer.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Custom and RAL color matching available upon request. Consult your lighting representative for more information.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- Not available with B3 lumen package in Type II, III, or IV distributions.
- Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or controls systems MS, LWR, DIM or SPBx.
- Not available with HA option.
- Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
- For device to be field-configurable, requires WAC Gateway components WAC-POE and WPDE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information.
- Not available on B1 or B4 lumen packages.
- Requires 4-PIN twistlock receptacle (ZD or ZW) option.
- Enlightened wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
- Not available in B4 lumen package.
- Low voltage control leads brought 18" outside fixture.
- Replace XX with paint color.
- Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
- This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
- Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-247V input voltages.
- Smart device with mobile application required to change system defaults. See controls section for details.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.
- Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
- Not available with SLTD option.
- If ZD or ZW only, shorting cap will be installed on 4-pin receptacle.

POWER AND LUMENS

Lumen Package	B1	B2	B3	B4	
Drive Current					
Power Wattage (Watts)	24W	48W	96W	99W	
Input Current (mA) @ 120V	200	400	800	830	
Input Current (mA) @ 208V	120	240	470	480	
Input Current (mA) @ 240V	100	200	400	420	
Input Current (mA) @ 277V	90	180	350	360	
Power Wattage (Watts)	26W	53W	107W	108W	
Input Current (mA) @ 347V	79	161	325	328	
Input Current (mA) @ 480V	58	117	235	237	
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

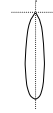
COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

Lumen Package	Temperature
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

gotham | I N C I T O™
Multiple Layers of Light



Luminaire Type:
Catalog Number:



High Center Beam Round Downlight **4"**



OVERVIEW

Feature Set

- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Bounding Ray™ optical design
- 45° Cutoff to source and source image
- Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- ENERGY STAR® Certified product

Distribution



Superior Performance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	703	807	1062	1545	1977	2419	2920	3548	3982	4419	4848
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	46.2	53.2
Efficacy	104	108	108	102	92	91	86	105	101	96	91

*Based on 3500K 80CRI 35D AR LSS

COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light



















General Illumination Layer I EVO



High Center Beam Layer I Incito




EVO + Incito — Multiple Layers of Light

								Core	
									Healthcare
									


4" High Center Beam Round Downlight

ORDERING INFORMATION


 A+ Capable options indicated by this color background.

 Luminaire Type:
 Catalog Number:

EXAMPLE: IC04 35/15 AR LSS 350 277 EZ1

Series	Color Temperature	Lumens	Reflector Color	Flange Type	Reflector Finish	Beam	
IC04 Incito 4in Round Downlight	27/ 2700 K	05 500 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	100 ² 10° beam angle	
	30/ 3000 K	07 750 lumens	PR Pewter	FL Flangeless	LD Matte diffuse	150 15° beam angle	
	35/ 3500 K	10 1000 lumens	WTR Wheat			200 20° beam angle	
	40/ 4000 K	15 1500 lumens	GR Gold			250 25° beam angle	
	50/ 5000 K	20 2000 lumens	WR ¹ White painted				300 30° beam angle
		25 2500 lumens	BR ¹ Black				350 35° beam angle
	30 3000 lumens	BZR ¹ Dark Bronze painted				400 40° beam angle	
	35 3500 lumens	WRAM ¹ White Anti-microbial				450 45° beam angle	
	40 4000 lumens					500 50° beam angle	
	45 4500 lumens					600 60° beam angle	
	50 5000 lumens					650 65° beam angle	

Voltage	Driver	Control Interface	Options
120 120V	GZ10 0-10V driver dims to 10%	(blank)	SF Single fuse.
277 277V	GZ1 0-10V driver dims to 1%	NLT ⁷ nLight [®] dimming pack.	90CRI High CRI (90+)
347 ^{3,4} 347V	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER ^{7,8} nLight [®] dimming pack for fixtures on emergency circuit	TRW ⁹ White Painted Flange
	EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR2 nLight [®] AIR dimming pack.	TRBL ¹⁰ Black Painted Flange
	EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 ⁹ nLight [®] AIR dimming pack for fixtures on emergency circuit	ELR ¹¹ Batterypack with remote test switch
	EDAB ⁶ eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 nLight [®] AIR dimming pack for fixtures on emergency circuit	CP ¹² Chicago Plenum
	EDXB ^{5,6} eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. MIN:1000 MAX:4000		N80 nLight Lumen Compensation
	ECOS2 ² Lutron [®] Hi-Lume [®] 2-wire forward-phase driver. 120V Only. Minimum dimming level 1%. Min: 1000LM; Max: 4000LM.		RRL RELOC [®] Ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC [®] product specifications. Above ceiling access required.
	ECOD ⁶ Lutron [®] EcoSystem [®] digital Hi-Lume 1% soft-on, fade to black. Min: 500LM; Max: 750LM.		

ACCESSORIES — order as separate catalog numbers (shipped separately)	
OPTC4 XxD	Additional optics for field installation. Replace "XX" with beam angle.

ORDERING NOTES	
1. Not Available with Finishes.	9. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector). Not available with FL.
2. Only available 1500lm and below.	10. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector). Not available with FL.
3. Not available with ELR emergency option.	11. Must specify 120 or 277. Not available with 347. Require 13 1/2" above ceiling access for use with ELR option.
4. Supplied with factory installed step down transformer.	12. Only available up to 4500 lumens. Specify 120 or 277.
5. Includes terminator resistor.	
6. Not Available with Control Interfaces.	
7. Must specify 120 or 277.	
8. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.	

Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or below the ceiling. Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top down flash characteristic for superior glare control. Flangeless trim option includes proprietary Gotham mud ring enabling seamless integration into drywall applications. Mud ring ships separately.

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 fixture-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.

Input wires shall be 18AWG, 300V minimum solid copper.

Controls

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

Emergency

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss with remote test switch available.

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 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

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

Construction

Light engine and driver are accessible from above or below ceiling.

16-gauge black painted steel mounting frame with mounting bars included.

Post-installation adjustment possible from above or below ceiling.

Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and one 1/2" knockout for straight-through conduit runs.

Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

Accommodates up to 1½"-thick ceilings.

Listings

Fixtures are CSA 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, wet location covered ceiling.

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.

IC-rated up to 1000 lumens.

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 within a tolerance of <2.5 MacAdam ellipse as defined by the center of the quadrangles defined in ANSI C78.377-2015.

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/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.



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

Tables of Use

ICO - eidoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

*Changeable through DALI controller

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
GZ1	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
EZ10	eidoLED 0-10V ECODrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZ1	eidoLED 0-10V ECODrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2
EZB	eidoLED 0-10V SOLODrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
5000	24	12	0.5
3500-4500 (GZ1/GZ10 Only)	24	12	0.5
4000-4500 w/CP (EZ1/EZ10 Only)	24	12	0.5
3500-4500 w/CP (GZ1/GZ10 Only)	24	12	0.5

ELR Availability/Compatibility - Initial Lumens			
Product	LED		Initial Lumens
	Lumens	Watts	ELR
IC04	500-5000	6-53	630

DIMENSIONAL DATA

*Dimensions in inches [centimeters]

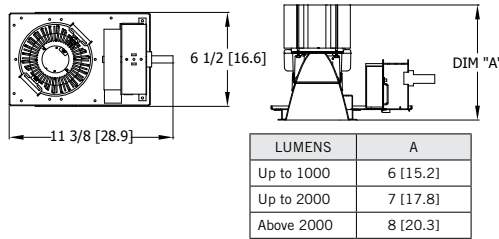
Aperture: 4-5/16 [111]

Ceiling Opening: 5-1/8 [13] self-flanged

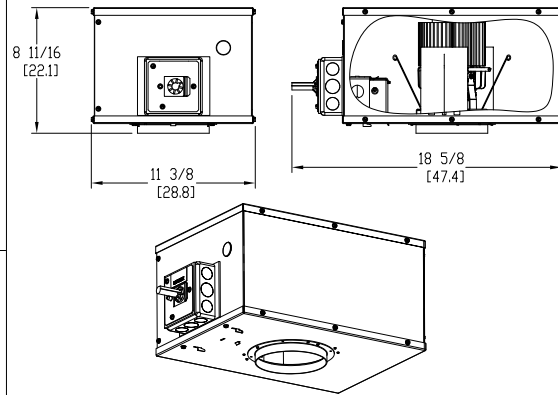
Overlap Trim: 5-7/16 [13.8]

4-5/8 [11.7] flangeless

Standard



Chicago Plenum





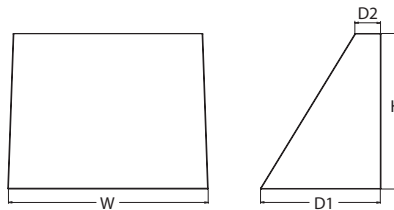
WDGE2 LED

Architectural Wall Sconce
Precision Refractive Optic



Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



Catalog Number
Notes
Type

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

Introduction

The WdGE2 LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WdGE2 family provides additional energy savings and code compliance.

WdGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WdGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WdGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	
WDGE2 LED	P0 ¹	27K 2700K	70CRI ⁴	T1S Type I Short	MVOLT	Shipped included SRM Surface mounting bracket	
	P1 ²	30K 3000K	80CRI	T2M Type II Medium	347 ³		Shipped separately AWS 3/8inch Architectural wall spacer PBBW S surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.
	P2 ²	40K 4000K	LW ⁵ Limited Wavelength	T3M Type III Medium	480 ³	ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁶	
	P3 ²	50K 5000K		T4M Type IV Medium			
	P4 ²	AMB ³ Amber		TFTM Forward Throw Medium			

Options	Finish
E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	DDBXD Dark bronze
E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	DBLXD Black
PE⁷ Photocell, Button Type	DNAXD Natural aluminum
DMG⁸ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
BAA Buy America(n) Act Compliant	DDBTXD Textured dark bronze
	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone
Standalone Sensors/Controls	
PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	
PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	
PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	
PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	
Networked Sensors/Controls	
NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.	
NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.	
See page 4 for out of box functionality	



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WDGE2 LED
Rev. 11/21/22

Accessories
Ordered and shipped separately.

 WDGEAWS DDBXD WDGE 3/8inch Architectural Wall Spacer (specify finish)
 WDGE2PBBW DDBXD U WDGE2 surface-mounted back box (specify finish)

NOTES

- 1 P0 option not available with sensors/controls.
- 2 P1-P4 not available with AMB and LW.
- 3 AMB and LW always go together.
- 4 70CRI only available with T3M and T4M.
- 5 347V and 480V not available with E10WH or E20WC.
- 6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
- 7 PE not available in 480V or with sensors/controls.
- 8 DMG option not available with sensors/controls.

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.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)									
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G					
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1					
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1					
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1					
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1					
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1					
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1					
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1					
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1					
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2					
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2					



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 WDGE2 LED
 Rev. 11/21/22

Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

**Lumen Output in Emergency Mode
(4000K, 80 CRI, T3M)**

Option	Lumens
E10WH	1,358
E20WC	2,230

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

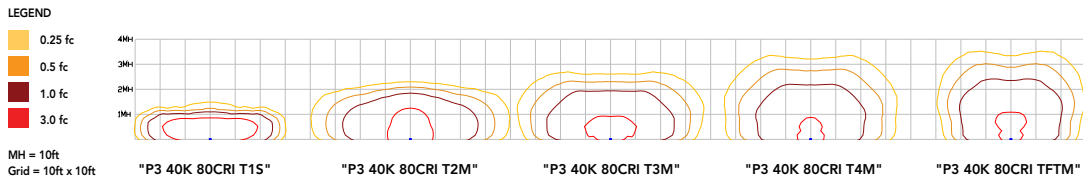
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WdGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.


Emergency Egress Options
Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

Mounting, Options & Accessories



Motion/Ambient Sensor

D = 7"
H = 9" (Standalone controls)
11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)
W = 11.5"



PBBW - Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"
H = 9"
W = 11.5"



AWS - 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WEDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted 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 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WEDGE LED 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. 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/OPL 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 2700K and 3000K color temperature only and SRM mounting only.

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.



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WDGE2 LED
Rev. 11/21/22



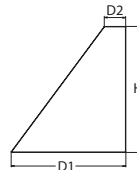
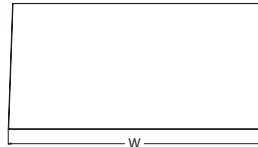
WDGE3 LED

Architectural Wall Sconce



Specifications

Depth (D1):	8"
Depth (D2):	1.5"
Height:	9"
Width:	18"
Weight: (without options)	19.5 lbs



Catalog Number
Notes
Type

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

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole mounted luminaires.

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE3 LED	P1	30K 3000K	70CRI	R2 Type 2	MVOLT	Shipped included
	P2	40K 4000K	80CRI	R3 Type 3	347 ¹	SRM Surface mounting bracket
	P3	50K 5000K		R4 Type 4	480 ¹	ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁴
	P4			RFT Forward Throw		Shipped separately
						AWS 3/8inch Architectural wall spacer
						PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options	Finish
E15WH Emergency battery backup, Certified in CA Title 20 MAEDBS (15W, 5°C min)	DDBXD Dark bronze
E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	DBLXD Black
PE² Photocell, Button Type	DNAXD Natural aluminum
DMG³ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
SPD10KV 10KV Surge pack	DDBTXD Textured dark bronze
BAA Buy America(n) Act Compliant	DBLBXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone
Standalone Sensors/Controls	
PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	
PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	
PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	
PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	
Networked Sensors/Controls	
NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.	
NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. See page 4 for out of box functionality	

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE3PBBW DDBXD U	WDGE3 surface-mounted back box (specify finish)

NOTES

- 347V and 480V not available with E15WH and E20WC.
- PE not available in 480V and with sensors/controls.
- DMG option not available with sensors/controls.
- Not qualified for DLC. Not available with emergency battery backup or sensors/controls.



COMMERCIAL OUTDOOR

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

WDGE3 LED
Rev. 11/21/22

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.

Performance Package	System Watts	Dist. Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	52W	R2	7,037	136	1	0	1	7,649	148	2	0	1	7,649	148	2	0	1
		R3	6,922	134	1	0	2	7,524	145	1	0	2	7,524	145	1	0	2
		R4	7,133	138	1	0	2	7,753	150	1	0	2	7,753	150	1	0	2
		RFT	6,985	135	1	0	2	7,592	147	1	0	2	7,592	147	1	0	2
P2	59W	R2	7,968	135	2	0	1	8,661	147	2	0	1	8,661	147	2	0	1
		R3	7,838	133	1	0	2	8,519	144	1	0	2	8,519	144	1	0	2
		R4	8,077	137	1	0	2	8,779	149	1	0	2	8,779	149	1	0	2
		RFT	7,909	134	1	0	2	8,597	146	2	0	2	8,597	146	2	0	2
P3	71W	R2	9,404	132	2	0	1	10,221	143	2	0	1	10,221	143	2	0	1
		R3	9,250	130	2	0	2	10,054	141	2	0	2	10,054	141	2	0	2
		R4	9,532	134	2	0	2	10,361	145	2	0	2	10,361	145	2	0	2
		RFT	9,334	131	2	0	2	10,146	142	2	0	2	10,146	142	2	0	2
P4	88W	R2	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
		R3	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
		R4	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		RFT	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	52W	0.437	0.246	0.213	0.186	0.150	0.110
P2	59W	0.498	0.287	0.251	0.220	0.175	0.126
P3	71W	0.598	0.344	0.300	0.262	0.210	0.152
P4	88W	0.727	0.424	0.373	0.333	0.260	0.190

Lumen Output in Emergency Mode (4000K, 70 CRI)

Option	Dist. Type	Lumens
E15WH	R2	3,185
	R3	3,133
	R4	3,229
	RFT	3,162
E20WC	R2	3,669
	R3	3,609
	R4	3,719
	RFT	3,642

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.891
40K	0.906
50K	0.906

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	1.05
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.97

Projected LED Lumen Maintenance

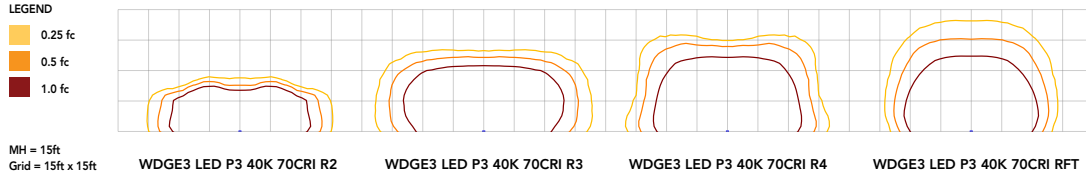
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.98	>0.97	>0.92

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WEDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



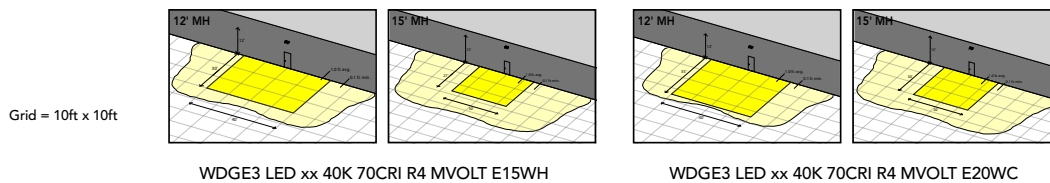
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain, minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E15WH or E20WC and R4 distribution.



Mounting, Options & Accessories



**NLTAIR2 PIR – nLight AIR
Motion/Ambient Sensor**

D = 8"
H = 11"
W = 18"



PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"
H = 9"
W = 18"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WEDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing to optimize thermal transfer from the light engine and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior painted 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 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K configurations. The WEDGE LED 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L92/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. 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 and SRM mounting only.

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.



COMMERCIAL OUTDOOR

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WDGE3 LED
Rev. 11/21/22

wet
BEAM4 **LED**

RECESSED HORIZONTAL MOUNT



Project _____

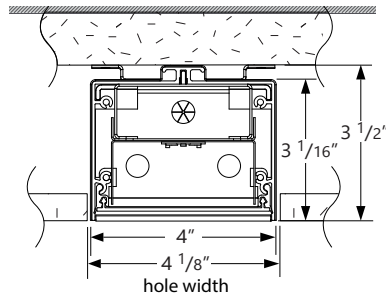
Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
1000 lm/ft	11.5 W/ft	87 lm/W

Please consult factory for custom lumen output and wattage.



CONTROL SENSORS

cULus Listed Type I.C.

Ordering Guide

WBRLLED					S	
PRODUCT ID	NOM.LUMENS/FT	CRI	COLOR TEMP.	SHIELDING	LENGTH (FT)	
WBRLLED Recessed LED	400	80	27	S satin lens	2 2'	
	1000	90	30		3 3'	
			35		4 4'	
			40		5 5'	
					8 8'	
					S# system run	

Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.

FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTINGS
W white	120 V	DP dimming (0-10V) 1%	1 1 circuit	D drywall flangeless
BLK black	277 V	LT(#) Lutron *	2 2 circuits	DF drywall flange
C custom	347 V	BI bi-level dimming	+E(#) emergency circuit *	DS drywall spackle flange
	UNV universal	O(#) other **	+NL(#) night light circuit *	
	DC low voltage*	POE(#) POE drivers*	+GTD(#) generator transfer device *	

* Only available with POE drivers. * Operating up to -20°C; Specify system
 ** Please consult factory; see page 2 * Specify quantity

BATTERY (OPTIONAL)	OTHER (OPTIONAL)	IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
B# battery pack (integral)	+EF end feed* +N natatorium finish	OS(#) occupancy sensor EN(#) Enlighted integral WC(#) wireless control dimming	C custom

Not available with 347V Please consult factory * See page 3 for more details. See integrated controls guide for further details Please consult factory Please specify

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

 1 / 4
 November 2, 2022

FILE NAME:WBR.LED-B3.SPEC

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MEP Engineering | Fire/Life Safety | Lighting Design | Energy Consulting | Building Technologies | Commissioning

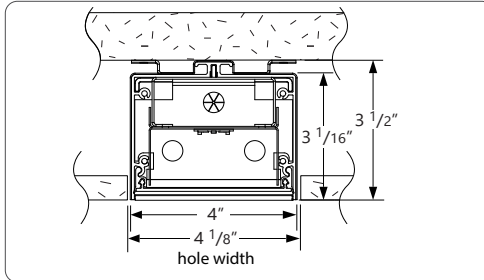
 Project Name: Beaverton High School Rebuild
 Issue: Land Use - Site Lighting
 Date: 4/3/2023

Type: SG - Axis Beam Wet

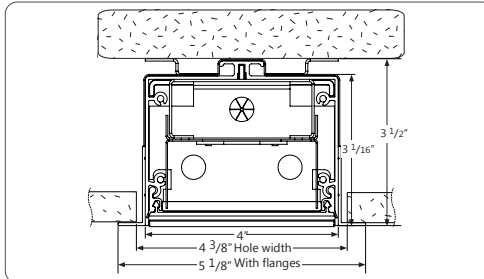
wet
BEAM4 **LED**

RECESSED HORIZONTAL MOUNT

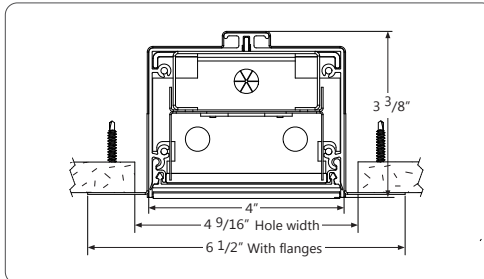
● **HORIZONTAL RECESSED MOUNTING OPTIONS**



D DRYWALL FLANGELESS



DF DRYWALL FLANGE



DS DRYWALL SPACKLE FLANGE

● **LED SYSTEM**

- CRI** Minimum 80 or 90 color rendering index.
- CCT** Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
- LED life** Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
- Thermal Management** Aluminum housing acting as the heat sink to maximize life.

i Row configuration, specification sheets and mounting spacing guides are available for download at: www.axislighting.com

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.

2 / 4
November 2, 2022

FILE NAME:WBR.LED-B3.SPEC

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● **OTHER MOUNTING OPTIONS**

WET BEAM 4 LED is available with, pendant, surface, wall mounted options and recessed vertical.

● **CONSTRUCTION**

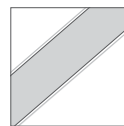
- Housing** Extruded aluminum (0.062" nominal)
Up to 70% recycled content
- End Cap** Die cast zinc (0.070" nominal)
- Interior Brackets** Die formed sheet steel (16 gauge)
- Gaskets** Moulded elastomer (0.100" nominal)
- Lens Gaskets** Extruded elastomer (0.045" nominal)
- Satin Lens** Extruded Polycarbonate

● **ELECTRICAL**

- Lutron driver*** LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
LTEA - Hi-lume 1% 2-wire (120V forward phase only)
*Consult factory
- Other drivers**** DALI - Digital Addressable Lighting Interface
DMX - Digital Multiplex
Xitanium SR - For wireless sensor
- Power over Ethernet POE drivers*** MOLEX
IGOR
SMARTENGINE
UL2108 certified for integral or remote driver
*Consult factory
- Emergency** Integral emergency battery pack or emergency circuit optional.
- Input Voltage** 120V, 277V, 347V, UNV.
- Flex Whip** Shipped in a separate box for contractors to install

i Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● **OPTICS**



S satin lens

SATIN LENS
Extruded Polycarbonate

● **WEIGHT**

- Recessed Horizontal 4 ft** 12.8 lbs / 5.8 kg
- Recessed Horizontal 8 ft** 24.5 lbs / 11.1 kg

● **GASKETED FIXTURE**

With its gasketed end cap and lens the Wet BEAM 4 LED is made for wet locations, and is ideal for exterior soffits and canopies of malls, hospitals and other institutions.

wet
BEAM4 **LED**

RECESSED HORIZONTAL MOUNT

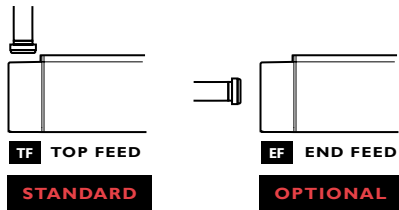
● **WARRANTY**

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

● **FINISH**

Aluminum paint, powder coated and custom finishes are also available.

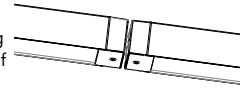
● **POWER FEED**



* Not available with 347 V.

● **JOINER SYSTEM**

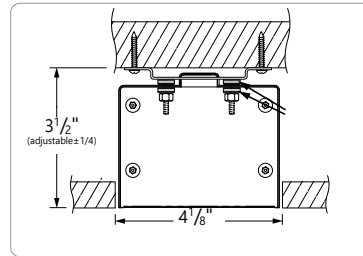
WET BEAM4 LED modular system consists of smaller modules joined and gasketed together allowing for system runs in lengths of 4' and 8' as well as custom lengths up to 12'.




* For continuous rows allow 2" for connectors between each fixture.

● **END VIEW**

For D and DF mounting.



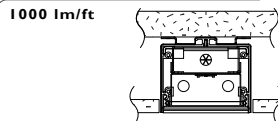
● **APPROVALS**

Certified wet locations to UL and CSA standards 

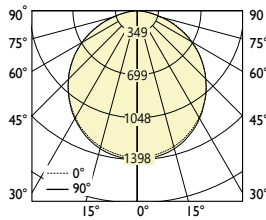
wet
BEAM4 **LED**

RECESSED HORIZONTAL MOUNT

● **PHOTOMETRIC DATA**



PHOTOMETRIC CURVE



Luminaire Lumens: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 45.8 W/ft
Efficacy: 87 lm/W
IES FILE: WBRLED-1000-80-35-S-4-IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1397	1397	1397	1397	1397
5	1393	1391	1391	1389	1390
15	1347	1344	1341	1339	1338
25	1256	1250	1246	1243	1242
35	1123	1115	1109	1104	1104
45	952	943	935	929	928
55	748	738	729	720	718
65	514	503	492	482	479
75	272	262	249	236	233
85	57	49	39	30	27
90	4	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	132
10-20	380
20-30	577
30-40	699
40-50	728
50-60	659
60-70	496
70-80	271
80-90	58
90	

LUMINANCE DATA (cd/m²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	10617	10430	10350
55	10276	10017	9870
65	9587	9183	8941
75	8298	7599	7091
85	5172	3533	2411

❗ All IES files are available for download at: www.axislighting.com

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4 / 4
November 2, 2022

FILE NAME:WBR.LED-B3.SPEC

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MEP Engineering | Fire/Life Safety | Lighting Design | Energy Consulting | Building Technologies | Commissioning

Project Name: Beaverton High School Rebuild
Issue: Land Use - Site Lighting
Date: 4/3/2023

Type: SG - Axis Beam Wet

Fail-Safe

DESCRIPTION

The 15" Terrapin LED provides exceptional aesthetics with impressive strength and is available in 20, 30 or 40 watt lumen packages. Polycarbonate lens, clear or opal, combined with four face plates provides a choice of different styles. Choose a photo control or motion sensor for control. Choose an emergency battery pack to provide egress illumination.

SPECIFICATION FEATURES

Housing

Shallow casting is die-cast aluminum. Backplate constructed of 16 gauge aluminum.

Face Plate Finish

Injection-molded polycarbonate color is matte black standard, matte white painted, or bronze painted. Border paint option is a premium baked-on finish. For custom colors, provide manufacturer paint number, RAL number or color chip.

Surface Conduit Box Finish

Polyester powder-coat paint applied in a five-stage process, 2.0 mil thickness, and baked on at 400° F. Finish is TGIC, textured, thermoset, polyester powder-coat.

Mounting

Surface, ceiling or wall. Interior or exterior.

Gasket

Die-cut closed-cell silicone gasket seals lens to casting. Gasket is secured with adhesive, and locked in place to the back casting. When the casting is not required, the gasket is mechanically attached to the back plate. One gasket seals the fixture.

Lens

One-piece, injection-molded opal or clear polycarbonate, 0.125" thick. Attached with 4 recessed T20 stainless-steel TORX®-head fasteners. **Lens Lifetime Warranty**, see page 3 for details.

Decorative Faces

Faceplate consists of high-impact, injection molded, 0.125" minimum thickness, polycarbonate overlay attached to lens with two recessed T20 stainless steel TORX®-head fasteners. Eyelid offers optimal

Catalog #		Type
Project		
Comments		Date
Prepared by		

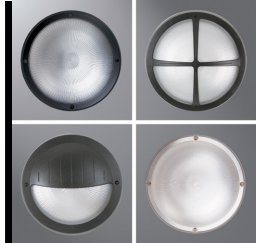
lamp shielding. Open face is lens for continuous radial light pattern. Border face utilizes the standard open lens with paint on the border, eliminating backlit halo effect.

Electrical

LED driver is mounted to the backpan for optimal thermal management. High efficiency LED mounted to circuit board. 70% lumen maintenance at 50,000 hours when operated in an environment as noted on the Maximum Ambient Operating/Option Matrix on the following page.

Labels

UL/cUL listed for wet locations, ceiling or wall mount. IP65 rated. Available to mount on combustible or non-combustible surfaces. Options to meet Buy American Act requirements.



TR 15 LED

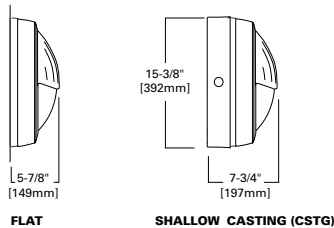
LD4 LED

15" Round
Terrapin LED
High Abuse
Polycarbonate

CEILING/WALL



MOUNTING



Delivered Lumens						
Wattage		TRO15	TRB15	TRR15	TRF15	TRE15
20	Clear	2945	2460	2585	2340	1245
	Opal	1595	1070	1125	1020	545
30	Clear	3930	3300	3465	3135	1665
	Opal	2125	1425	1500	1355	725
40	Clear	4875	4060	4265	3860	2045
	Opal	2640	1760	1850	1670	865
		Open	Border	Ring	Four Quadrant	Eyelid

Refer to LM-79 data for exact lumen output, input wattage and distribution.

RATINGS

UL/CUL listed for wet locations
IP65

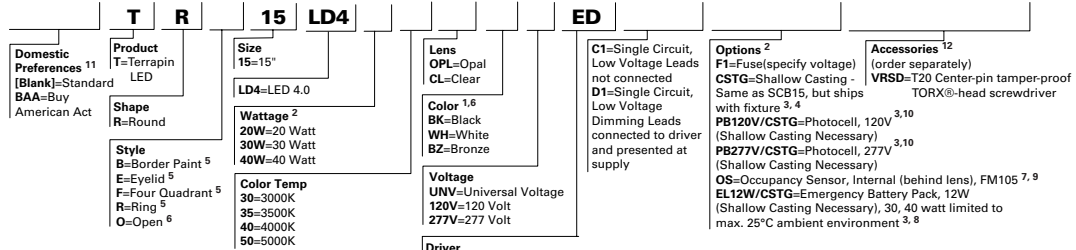
TORX® is a registered trademark of Camcar Division of Textron Inc.



ADC120823
December 13, 2021 12:01 PM

ORDERING INFORMATION

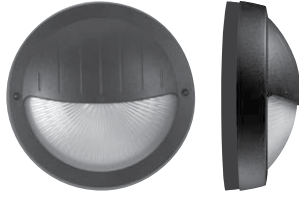
SAMPLE NUMBER: TRF15-LD4-20W-40-OPL-BZ-UNV-EDC1-EL12W/CSTG



- Notes:**
1. Custom colors available. Furnish RAL # or paint manufacturer/model #.
 2. See table below for wattage construction/options.
 3. When CSTG, PB120/CSTG, PB277/CSTG, EL12W/CSTG is specified, a color must be specified.
 4. CSTG has (4) threaded hubs suitable for 1/2" conduit (plugged).
 5. Color must be specified.
 6. Open lens/style does not require a color to be specified, unless used with a shallow casting (CSTG, PB120/CSTG, PB277/CSTG, EL12W/CSTG).
 7. 25C maximum ambient for 40W.
 8. 30 and 40 watt limited to max. 25°C ambient environment.
 9. OS only functional with 120V or 277V.
 10. PB120V/CSTG requires 120V to be specified as fixture voltage, and PB277V/CSTG requires 277V to be specified as fixture voltage.
 11. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
 12. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Maximum Ambient Operating/Option Matrix												
	20W				30W				40W			
	Flat Mount		Shallow Cast		Flat Mount		Shallow Cast		Flat Mount		Shallow Cast	
	Ceiling	Wall	Ceiling	Wall	Ceiling	Wall	Ceiling	Wall	Ceiling	Wall	Ceiling	Wall
No options	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C
Fuse	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C	40C
Photocell	n/a	n/a	40C	40C	n/a	n/a	40C	40C	n/a	n/a	35C	35C
Occ Sensor	40C	40C	40C	40C	25C	25C	25C	25C	25C	25C	25C	25C
Fuse & Photocell	n/a	n/a	40C	40C	n/a	n/a	40C	40C	n/a	n/a	35C	35C
Fuse & Occ Sensor	40C	40C	40C	40C	25C	25C	25C	25C	25C	25C	25C	25C
EM	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C
EM & Fuse	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C
EM & Fuse & Photocell	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C
EM & Fuse & Occ Sensor	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C
EM & Photocell	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C
EM & Occ Sensor	n/a	n/a	40C	40C	n/a	n/a	25C	25C	n/a	n/a	25C	25C

DESIGN GALLERY



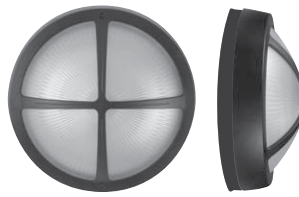
Eyelid
Polycarbonate eyelid/cover attached to lens with tamper resistant screws



Border (Painted Border)
Side and edge of lens painted, no front cover



Ring
Polycarbonate ring attached to lens with tamper resistant screws



Four Quadrant
Polycarbonate cover attached to lens with tamper resistant screws



Open
Unpainted lens only. No polycarbonate front cover

Lens Lifetime Warranty

Fail-Safe will repair or provide a replacement lens for any TR15 lens found to be inoperative due to physical abuse for the duration of the installation under normal conditions.

** To make a claim, contact your Cooper Lighting Agent to arrange an RMA (Return Material Authorization) for the claimed product. Upon receipt and verification of the defect, Cooper Lighting will return to you a repaired or, at Cooper Lighting's sole option, replacement fixture.



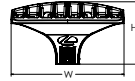
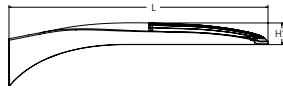
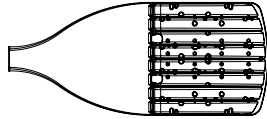
D-Series Size 1 LED Area Luminaire



d^{series}

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Catalog Number	
Notes	
Type	

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

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting	
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium	T5M Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control ² BLC4 Type IV backlight control ² LCCO Left corner cutoff ³ RCCO Right corner cutoff ³	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ^{5,6} XVOLT (277V - 480V) ^{7,8}	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPAS Square pole mounting #5 drilling ⁹ RPAS Round pole mounting #5 drilling ⁹ SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket ¹⁰

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{11, 12, 20, 21} PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ^{13, 20, 21} PER NEMA twist-lock receptacle only (controls ordered separately) ¹⁴ PER5 Five-pin receptacle only (controls ordered separately) ^{14, 21}	Shipped installed SPD20KV 20KV surge protection HS Houseside shield (black finish standard) ²² L90 Left rotated optics ¹ R90 Right rotated optics ¹ CCE Coastal Construction ²³ Shipped separately EGS External Glare Shield (reversible, field install required, matches housing finish) BS Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photozell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photozell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photozell - SSL twist-lock (480V) ²⁴
DSH0RT SBK	Shorting cap ²⁴
DSX1HS 30C	House-side shield for P1, P2, P3, P4 and P5 ²²
DSX1HS 40C	House-side shield for P6 and P7 ²²
DSX1HS 60C	House-side shield for P8, P9, P10, P11 and P12 ²²
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGS (FINISH)	External glare shield

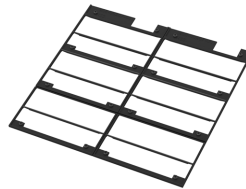
NOTES

- 1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- 3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- 7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- 8 XVOLT not available in packages P1 or P10.
- 9 SPAS and RPAS for use with #5 drilling only (Not for use with #8 drilling).
- 10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
- 11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- 12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- 13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- 14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, DMG and DS.
- 16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
- 17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- 18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- 19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- 20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
- 21 Reference Controls Options table on page 4.
- 22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 23 CCE option not available with option BS and EGS. Contact Technical Support for availability.
- 24 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories



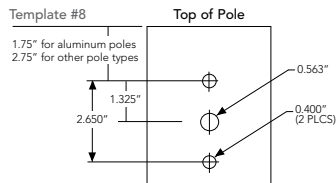
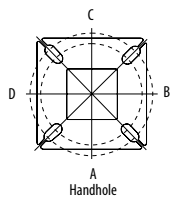
External Glare Shield (EGS)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



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	3.5"	3.5"	3.5"	3.5"	3"	3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPAS	#5	3"	3"	3"	3"	3"	3"
RPAS	#5	3"	3"	3"	3"	3"	3"
SPAN	#8	3"	3"	3"	3"	3"	3"

DSX1 Area Luminaire - EPA

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

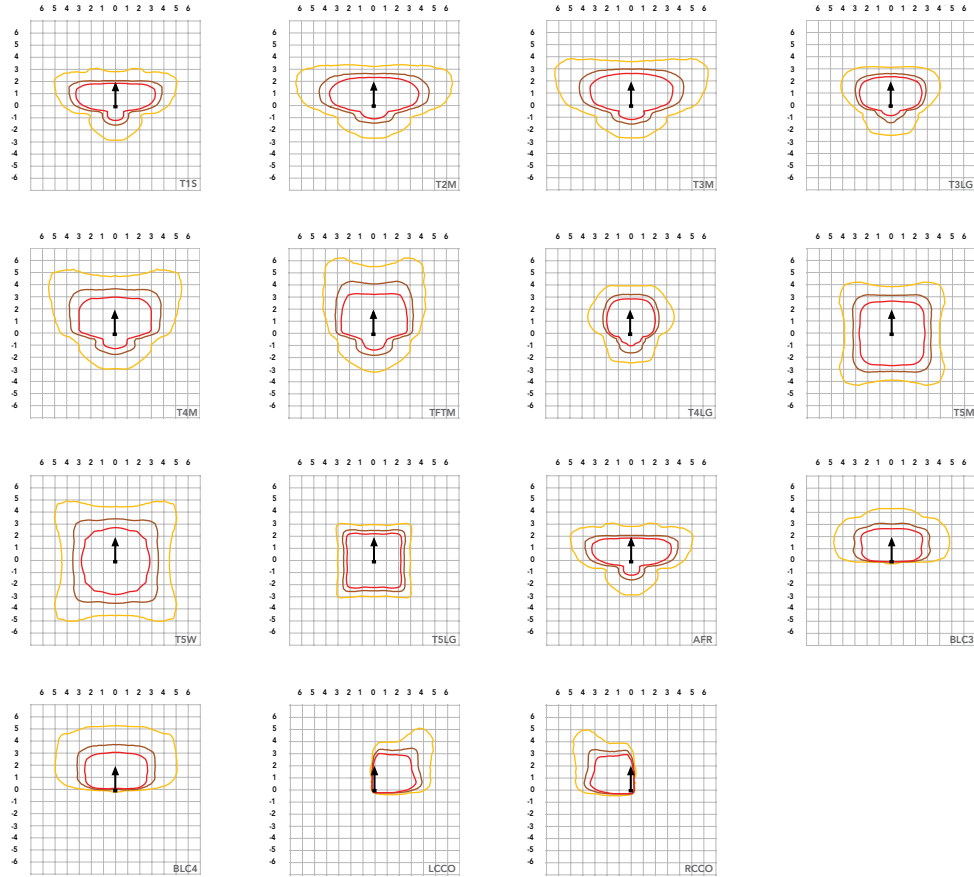
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPAS, SPAN	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPAS	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

Photometric Diagrams

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

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
 0.1 fc
 0.5 fc
 1.0 fc



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°C	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
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)						
				120V	208V	240V	277V	347V	480V	
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

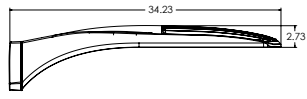
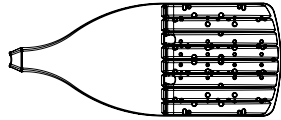
Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

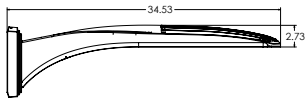
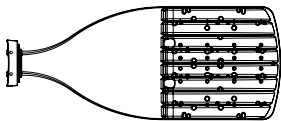
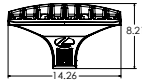
Controls Options

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 (not available on DSX0)	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. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
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 Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pn app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

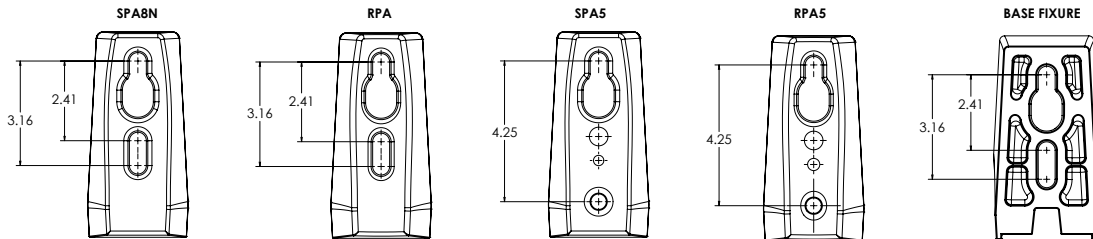
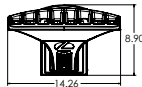
Dimensions



DSX1 with RPA, RPA5, SPA5, SPA8N

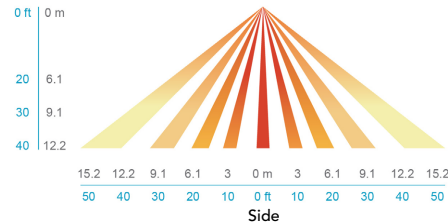
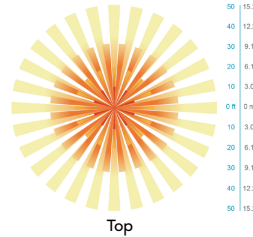


DSX1 with WBA



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

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 drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 1.5G. Low EPA (0.69 ft) 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.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Night-time Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 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 DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

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.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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DSX1-LED
 Rev. 11/10/22
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