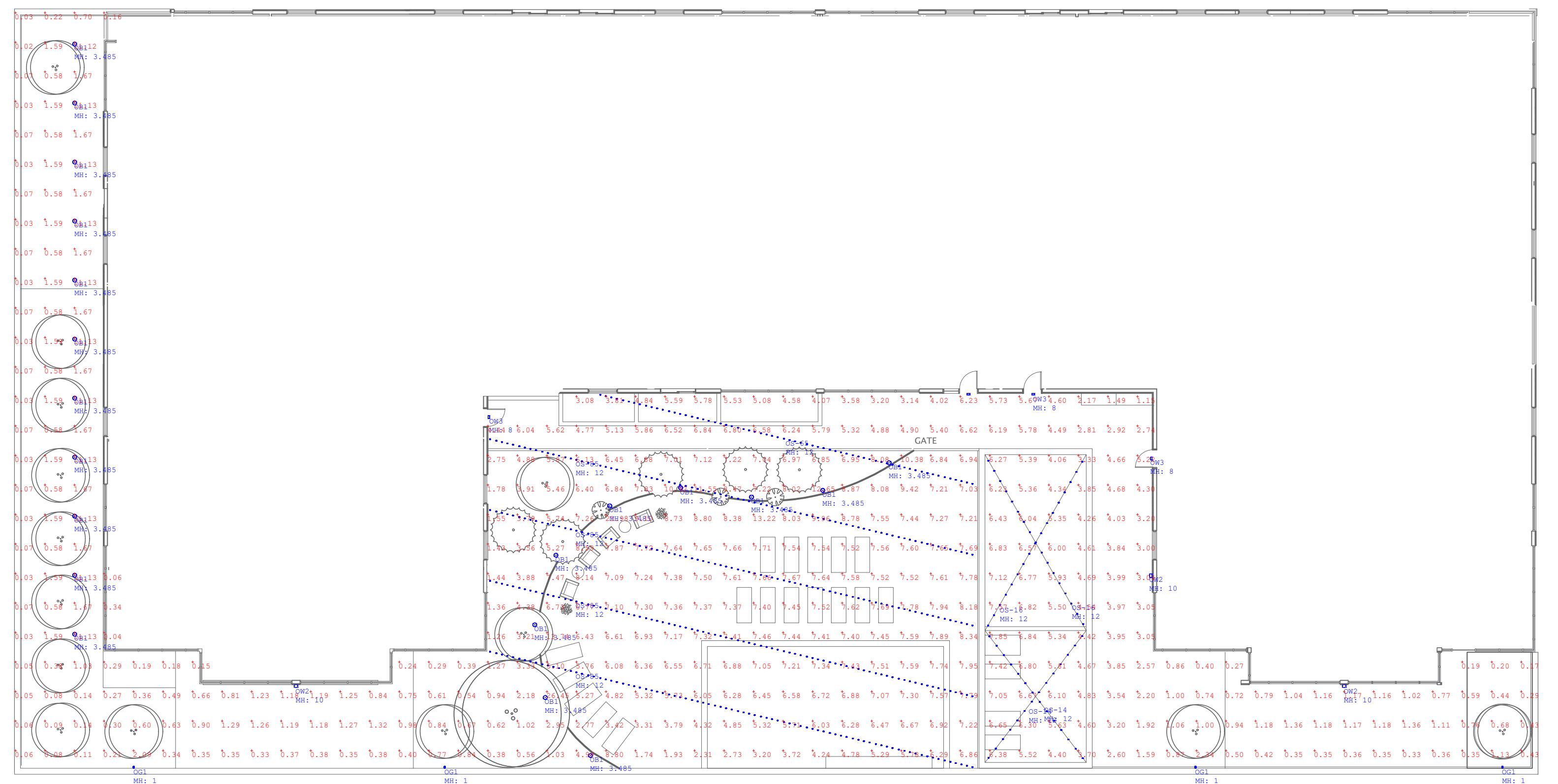


ENTERPRISE
Lighting & Control

702 E. WASHINGTON	DRAWN BY : DC	#	DATE	COMMENTS
MADISON, WISCONSIN	DATE : NOVEMBER 27, 2023			
1ST FLOOR SITE LAYOUT	SCALE : 1/32" = 1'-0"			

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DOG RUN AREA	Illuminance	Fc	4.04	11.1	0.6	6.73	18.50
EAST GATHERING	Illuminance	Fc	0.83	1.4	0.3	2.77	4.67
POOL DECK	Illuminance	Fc	7.05	22.0	1.7	4.15	12.94
WEST GATHERING	Illuminance	Fc	0.86	1.3	0.3	2.87	4.33

Luminaire Schedule								
Qty	Label	Arrangement	LLF	MFR	Description	Lum. Watts	Total Watts	Lum. Lumens
20	OB1	SINGLE	0.950	LITHONIA	RADB LED P1 xxK ASY DNAXD	5.21	104.2	344
4	OG1	SINGLE	0.950	WAC	5212-xxBZ	29.28	117.12	1849
2	OS-14	GROUP	0.121	TIVOLI	LSA2-B-24-V-xx-LAU-N-12 (14 LIGHTS)	N.A.	252	N.A.
2	OS-16	GROUP	0.121	TIVOLI	LSA2-B-24-V-xx-LAU-N-12 (16 LIGHTS)	N.A.	306	N.A.
1	OS-65	GROUP	0.133	TIVOLI	LSA2-B-12-V-xx-LAU-N-12 (65 LIGHTS)	N.A.	600.7947	N.A.
4	OS-85	GROUP	0.121	TIVOLI	LSA2-B-12-V-xx-LAU-N-12 (85 LIGHTS)	N.A.	3060	N.A.
3	OW2	SINGLE	0.950	LITHONIA	WDGE2 LED P0 xxK 80CRI T1S	6.8946	20.6838	699
3	OW3	SINGLE	0.950	LITHONIA	WDGE1 LED P0 xxK 80CRI VF	6.7947	20.3841	759



REVISIONS	DATE	COMMENTS

DRAWN BY : DC	DATE : NOVEMBER 27, 2013
SCALE : 1/32" = 1'-0"	

702 E. WASHINGTON	MADISON, WISCONSIN
1ST FLOOR SITE LAYOUT	

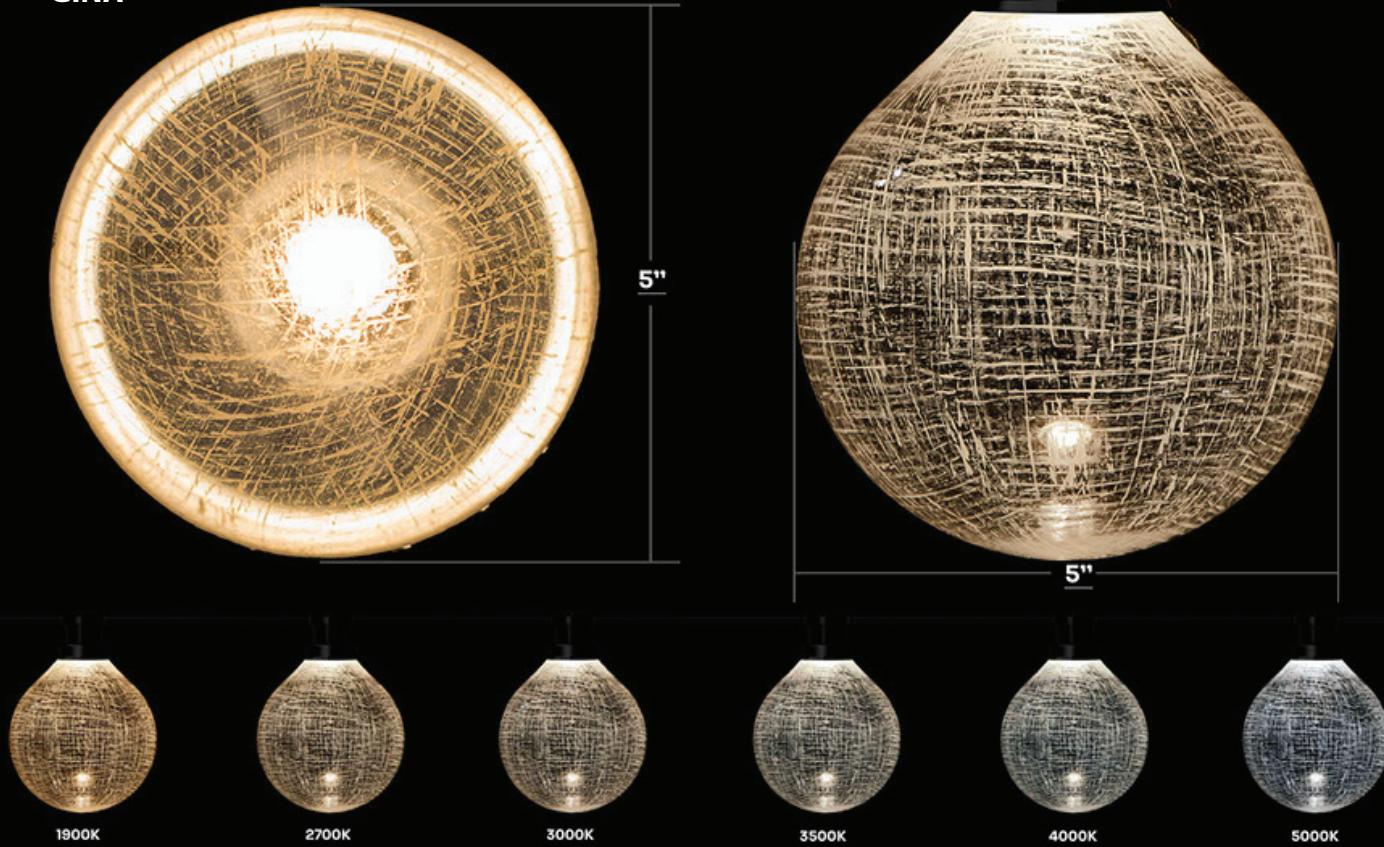
tivoli®



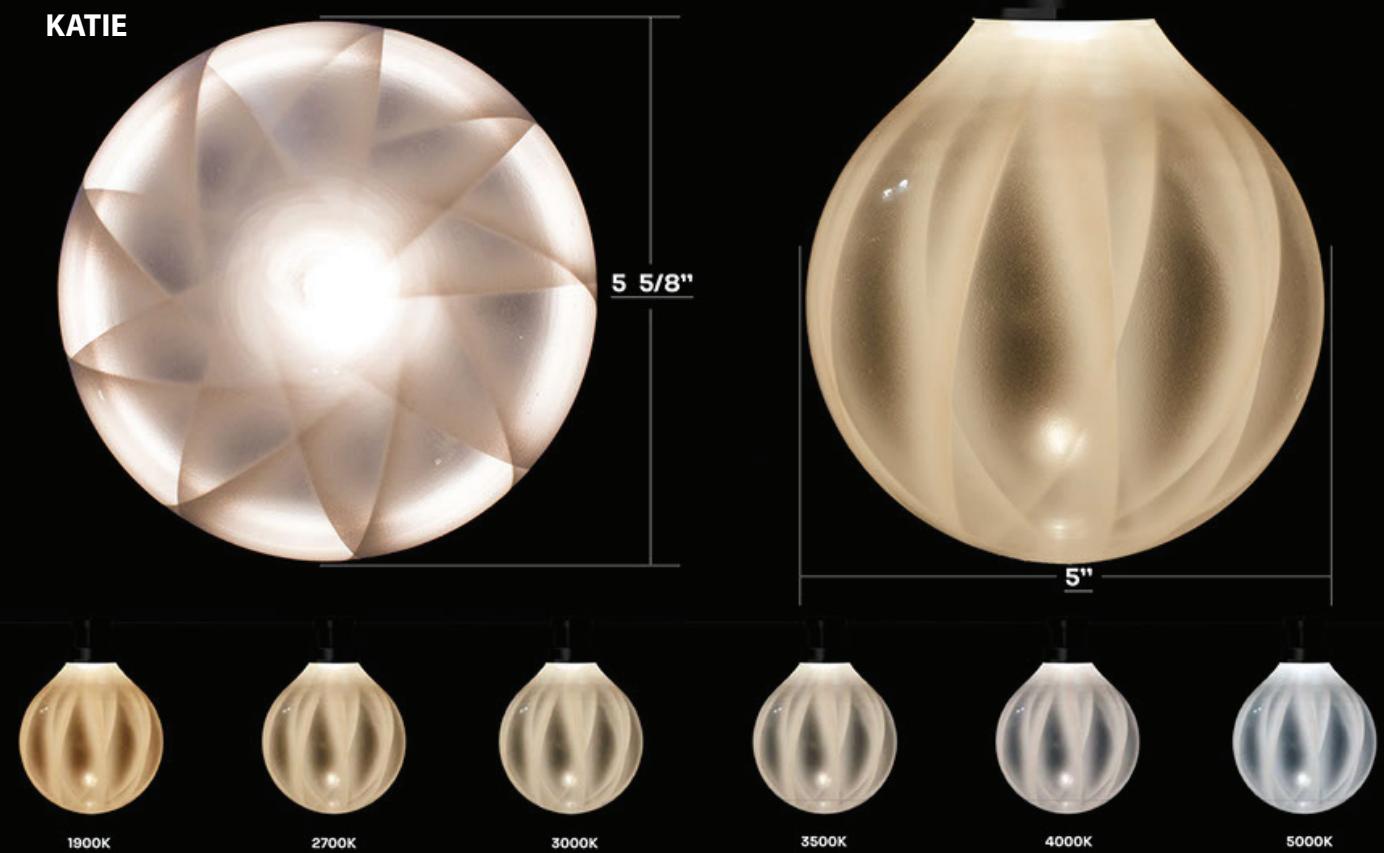
LITESPHERE 2.0



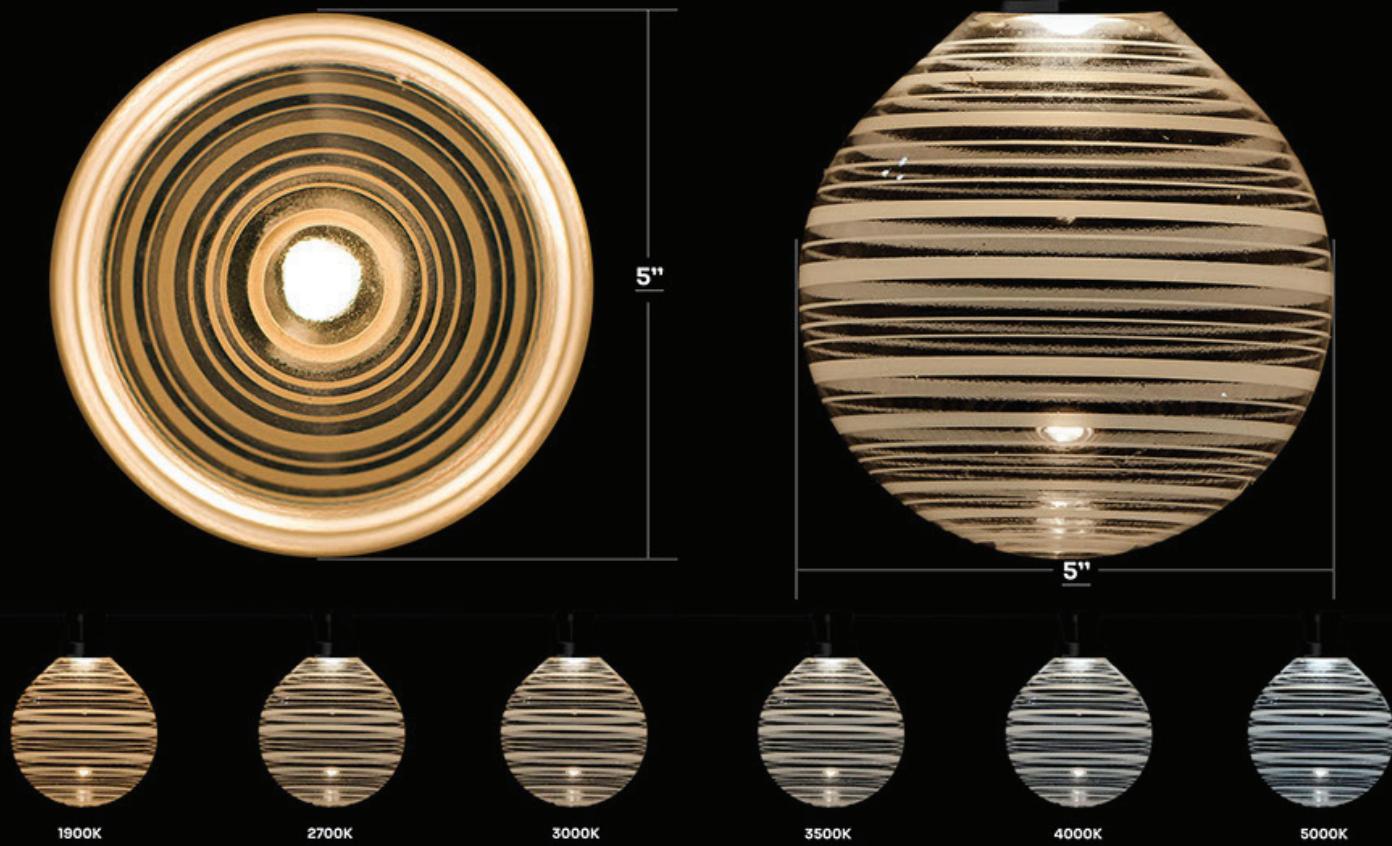
GINA



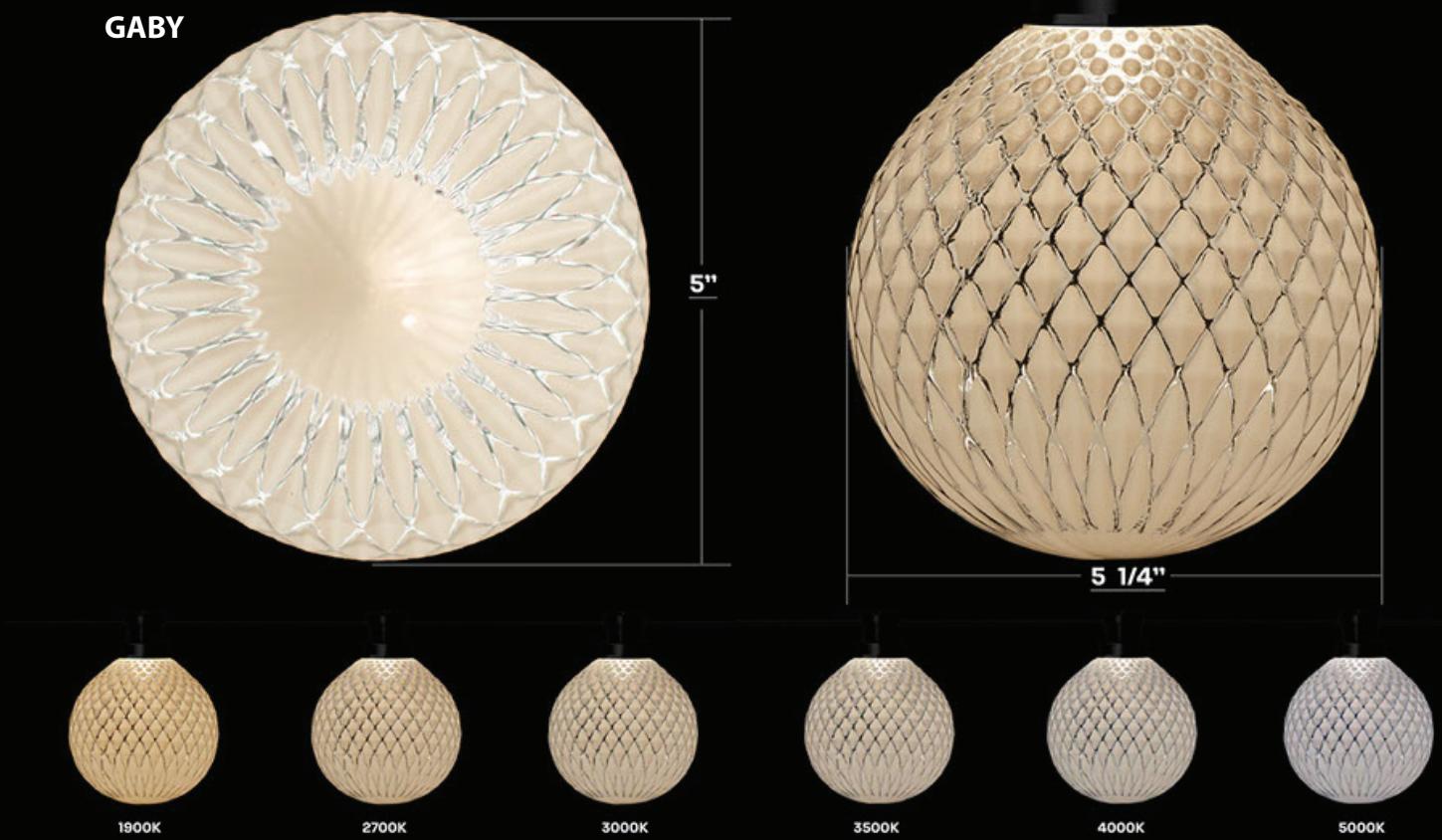
KATIE



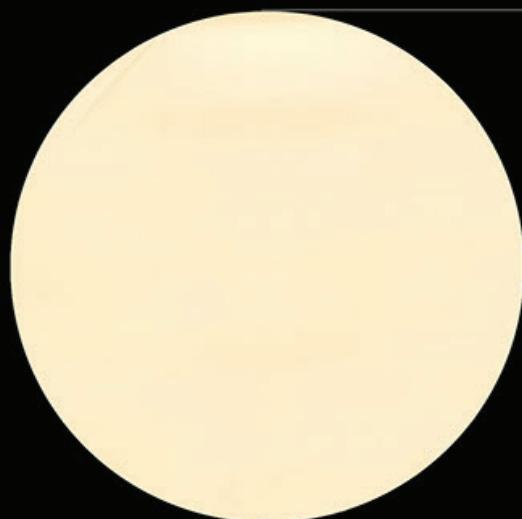
ANGELA



GABY



TONI



5"



5"



1900K



2700K



3000K



3500K



4000K



5000K

VICTORIA



5"



5"



1900K



2700K



3000K



3500K

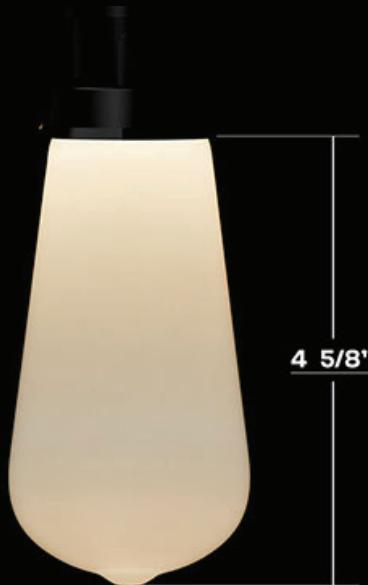
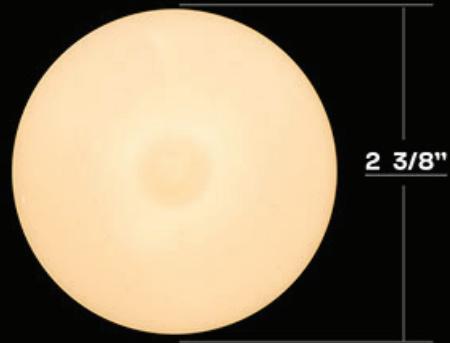


4000K

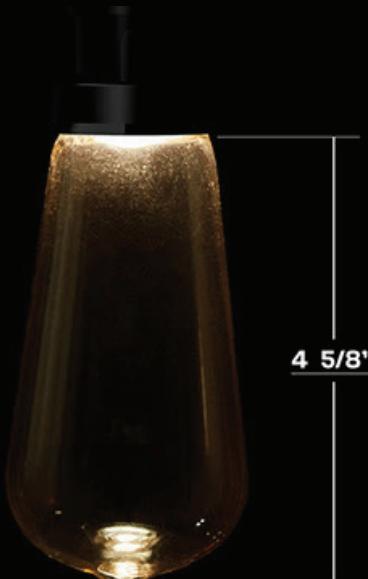


5000K

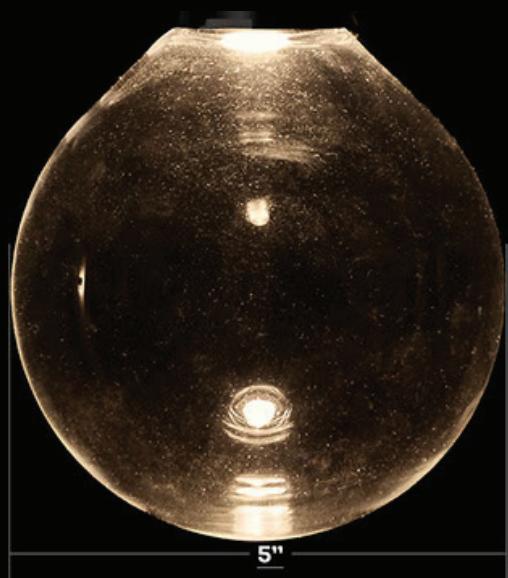
LAURA



BRENDA



LUCIA



1900K



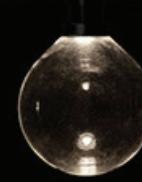
2700K



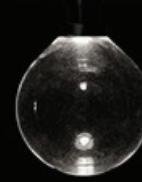
3000K



3500K

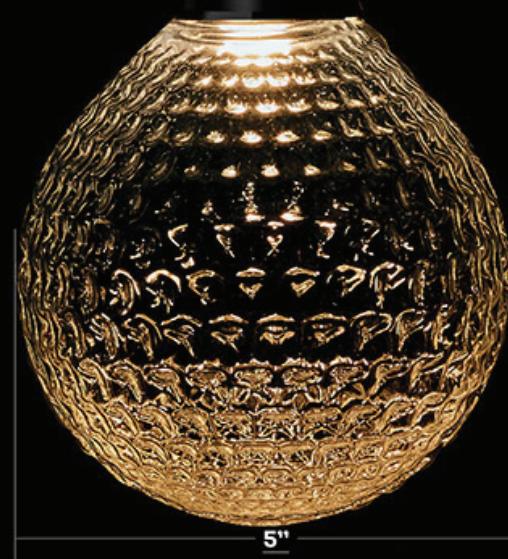


4000K



5000K

SUSAN



1900K



2700K



3000K



3500K

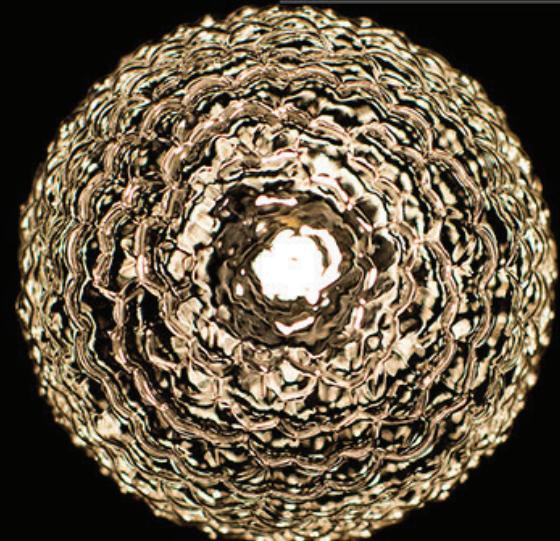


4000K



5000K

ANA



5"



5"



1900K



2700K



3000K



3500K



4000K



5000K



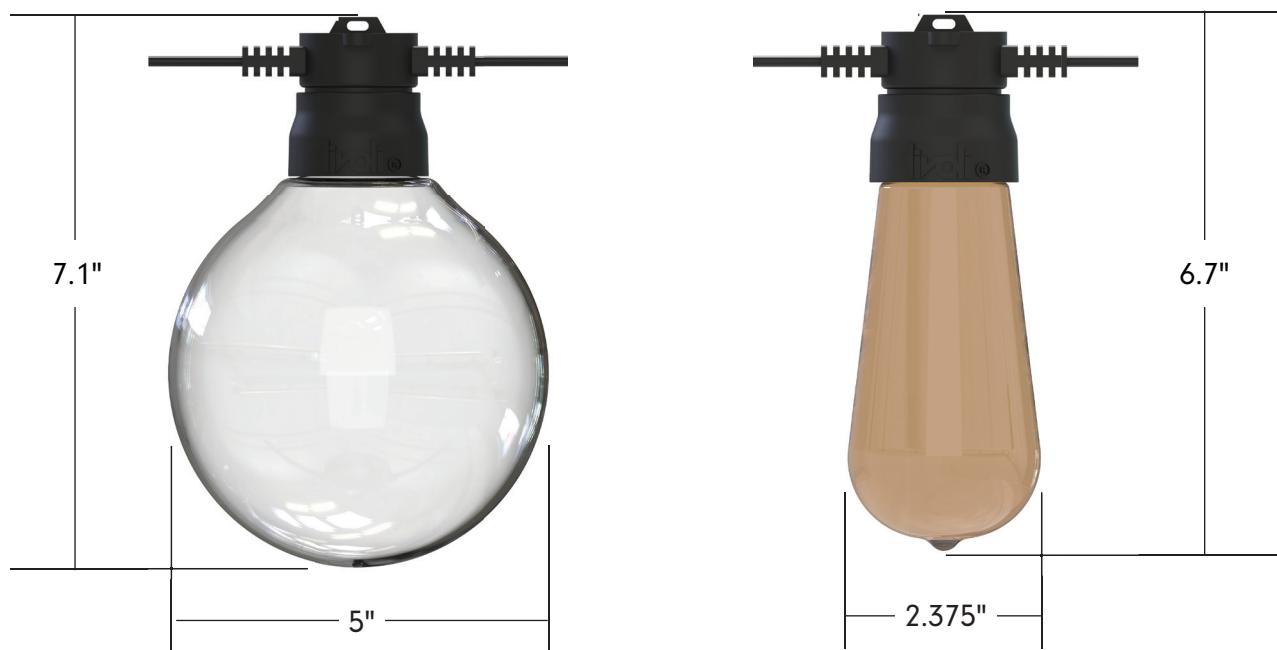
Project: _____

TYPE: _____

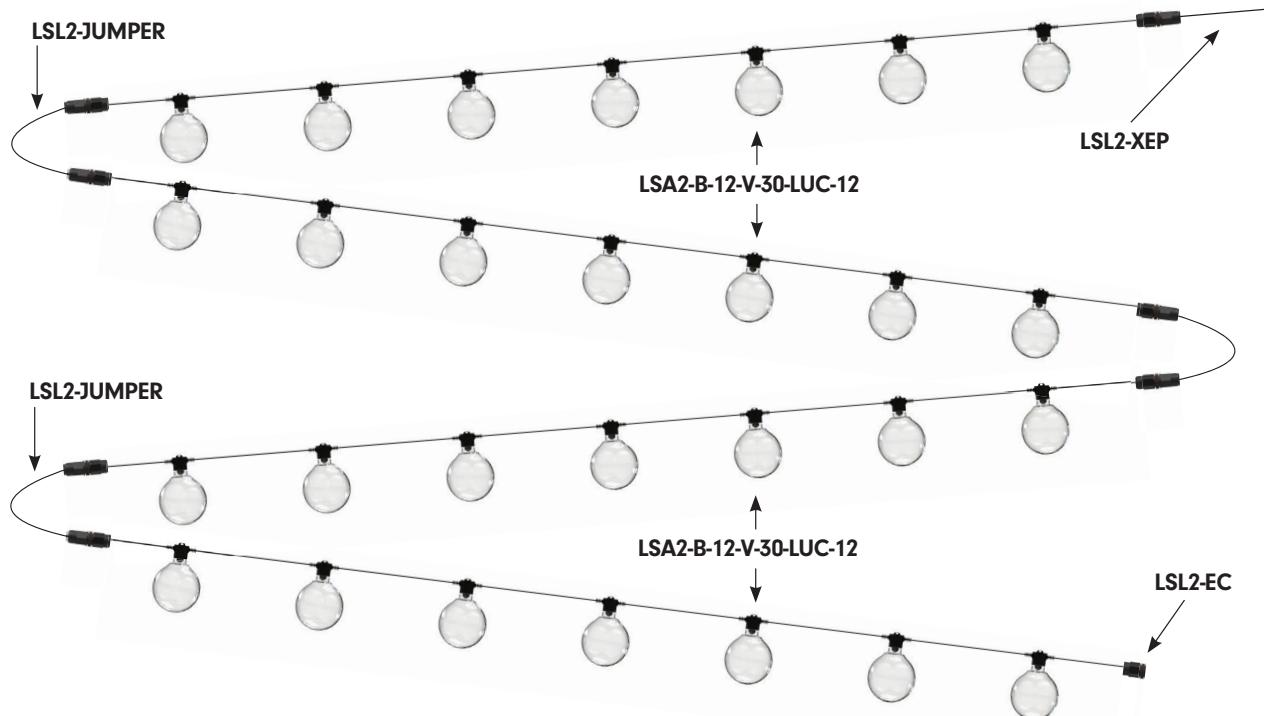
Product Features

- The next evolution of ADAPT delivers a robust specification-grade strand with factory molded standard spacing for consistent quality from start to finish
- Litesphere ADAPT 2.0 design provides optional suspended mounting or a twist-off cap for surface applications
- 12V DC Low voltage system for long runs
- Socket and cord color available in black or white
- Proprietary ADAPT screw base fitting
- Silicone-coated ADAPT glassware for assisting with shatter resistance
- IP67
- cULus
- 3 Year warranty

Dimensions



System Configuration Example



Strand Order Guide

Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

Product	Wire	Spacing	LED Type	LED Color	Globe	Light Shade*	Voltage
LSA2	-	-	V	-	-	-	12
Litesphere ADAPT 2.0	B Black	12 12" OC	V Very High Output	19 1900K	ANA Ana	Y Yes	12 12V DC
	W White**	18 18" OC		27 2700K	VIC** Victoria	N No	
		24 24" OC		30 3000K	GAB Gaby		
		36 36" OC		35 3500K	BRE Brenda		
		48 48" OC		40 4000K	LAU** Laura		
				50 5000K	GIN Gina		
				AM Amber	ANG Angela		
				RB Royal Blue	KAT Katie		
				RD Red	SUS** Susan		
				GN Green	TON** Toni		
				YL Yellow	LUC** Lucia		
					CG** Varied Globes		

*Light Shade are optional. Consult factory for lead time and available style and sizes - see page 13

**Consult Factory for MOQ and Lead Time.

Power Lead Order Guide

LSL2-XEP-X-XX

X = B (Black), W (White)

XX = 05 (5'), 10 (10'), 15 (15'), 20 (20'), 25 (25')

For custom length consult factory

Figure A

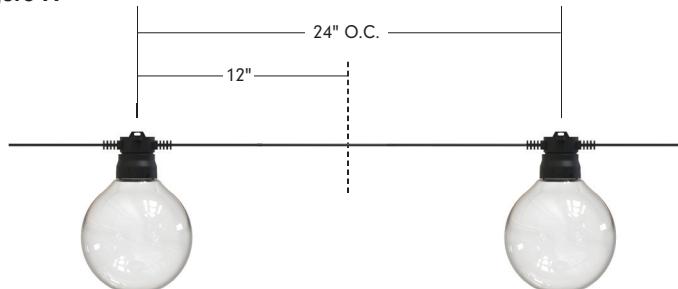
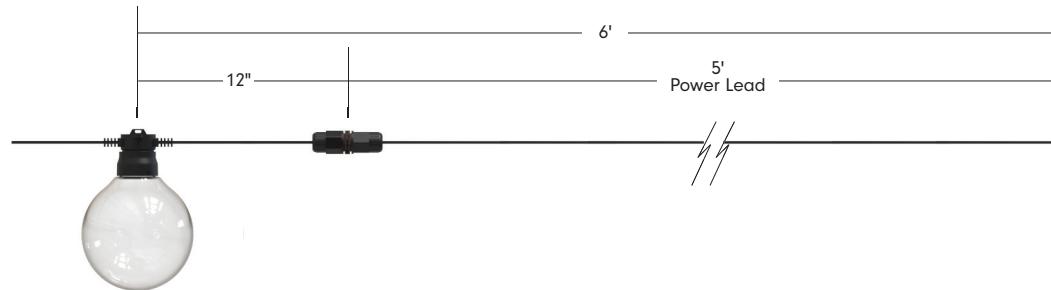


Figure B



Jumper Order Guide

Figure A - All Litesphere ADAPT 2.0 are evenly cut between globes according to specified spacing.
 Figure B - Jumpers are added between the cuts, extending the total length of wire between globes.

LSL2-JUMPER-X-XX

X = B (Black), W (White)

XX = 05 (5'), 10 (10')

For custom length, consult factory

Figure A

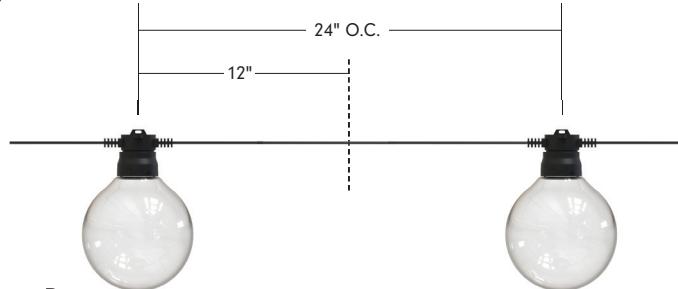
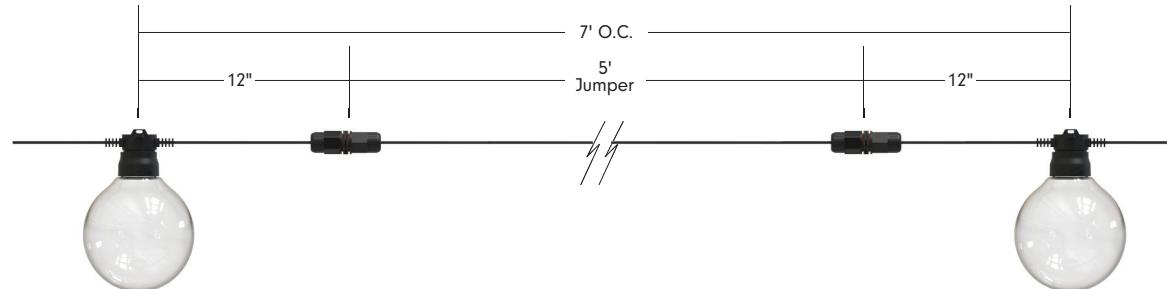


Figure B



Specifications

Output - Very High Output					
On-Center Spacing	12"	18"	24"	36"	48"
Lumens/ft	90.2	60	45	30	N/A
Watts/ft	.96	.64	.48	.32	.24
Maximum Electrical Run	55'	70'	80'	90'	90'
Weights (G125 Globe)					
On-Center Spacing	12"	18"	24"	36"	48"
lb/ft	0.59	0.55	0.51	0.47	0.44
lb/ft with catenary cable	0.61	0.57	0.53	0.49	0.46
Weights (ST19 Globe)					
On-Center Spacing	12"	18"	24"	36"	48"
lb/ft	0.49	0.45	0.41	0.37	0.34
lb/ft with catenary cable	0.51	0.47	0.43	0.39	0.36
Electrical					
Input Voltage	12V DC				
Power Consumption (W/LED)	0.96				
Control					
Control System	0-10V, ELV, MLV, DMX 512 (Dim to 1% with an Infinity power supply and a 0-10V Lutron Diva dimmer)				
Physical					
Dimensions	7.1" H x 5" W (G125), 6.7" H x 2.375" W (ST19)				
Socket Housing	PVC				
American Wire Gauge	14 AWG				
Globe	Glass (Shatter resistance assist with silicone coating - Glass may still break under certain conditions)				
Mounting	Surface Mount, Suspended				
Operating Temperature	-40°C to 65°C (-40°F to 149°F)				
Certification and Testing					
Certification	cULus				
Environment	Wet Location				
Lumen Maintenance (L70) Hours	70,000				
IP Rating	IP67				
Warranty	3 Years				

Mounting Options

SURFACE/FLUSH

For surface mount applications, remove the top suspension-plate by turning counter-clockwise until off. Place socket flush against the desired surface and mount using proper screws according to substrate.



SUSPENDED

Suspended mounting will use a combination of LS-CABLE, LS-LOCK with LS-UVZP. Tension the cable wire with our LS-TT (Tension Tool) for desired sag (Please adhere to local city code for suspended application).

Note: For suspension application, a catenary cable is required for proper installation.

Please contact Tivoli for recommendations on unique mounting applications.



Mounting Accessories



LS-CABLE-60 Catenary Cable Kit - 60'
(1/8" Stainless Steel cable includes 2 cable locks for use with loads up to 200lbs)



LS-LOCK-X Cable Lock
X = 2 (2 Locks), 4 (4 locks) Includes (1) cable release key.
Cable Lock for 1/8th inch cable, Heavy-duty lockable
fasteners support loads up to 200 lbs. Can be easily
adjusted without the use of tools.



LS-TT
Catenary Cable Tensioning Tool up to 880lbs with
minimal effort due to the 6:1 gear drive mechanism.
Integral torque gauge controls the load applied to the
wire, giving consistent tension every time and optimizing
the life of the wire.



LS-UVZP-BK-50

Black
50 pc Bag set. UV resistant, heavy duty ties.
Maximum weight up to 100 lbs./per tie.



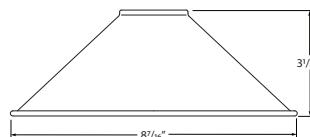
LS-UVZP-BK-30

Black
30 pc Bag set. UV resistant, heavy duty ties.
Maximum weight up to 100 lbs./per tie.

Light Shades

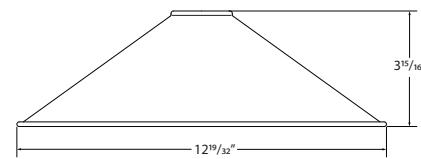


HAT



SHADE-HT-BK-BK-8

Light Shade - HAT
8.3" Black Top, Black Bottom
Weight: 0.38 lb



SHADE-HT-BK-BK-13*

Light Shade - HAT
12.6" Black Top, Black Bottom
Weight: 1.06 lb

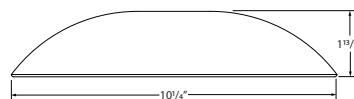
SHADE-HT-BK-CO-13 *

Light Shade - HAT
12.6" Black Top, Copper Bottom
Weight: 1.06 lb

*Consult factory for lead time and MOQ



DISH

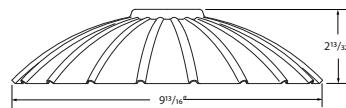


SHADE-DS-BK-BK-10

Light Shade - DISH
10.2" Black Top, Black Bottom
Weight: 0.72 lb

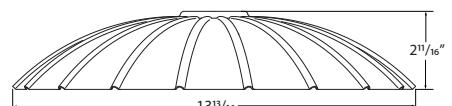


FLOWER



SHADE-FL-BK-BK-10

Light Shade - FLOWER
9.8" Light Shade, Black Top, Black Bottom
Weight: 0.54 lb



SHADE-FL-BK-BK-13

Light Shade - FLOWER
13.8" Light Shade, Black Top, Black Bottom
Weight: 1.1 lb

Replacement Parts

PRODUCT CODE
PROFILE
SHADE
LSA2

LSA2 = Litesphere
ADAPT Globe

ANA = Ana
ANG = Angela

Y = Yes
N = No

GIN = Gina

GAB = Gabby

KAT = Katie

SUS = Susan*

TON = Toni*

LUC = Lucia*

VIC = Victoria*

LAU = Laura*

BRE = Brenda*

LSA2-LUC-N

Example part number shown
is with **NO** shade option -
Standard adapter applied at
factory


LSA2-LUC-Y

Example part number shown
is with **YES** shade option -
Shade adapter applied at
factory



Very High Output


LSL-19-V-12

12V Wedge base
1900K

LSL-27-V-12

12V Wedge base
2700K

LSL-30-V-12

12V Wedge base
3000K

LSL-35-V-12

12V Wedge base
3500K

LSL-40-V-12

12V Wedge base
4000K

LSL-50-V-12

12V Wedge base
5000K

LSL-AM-V-12

12V Wedge base
Amber

LSL-RD-V-12

12V Wedge base
Red

LSL-RB-V-12

12V Wedge base
Royal Blue

LSL-GN-V-12

12V Wedge base
Green

LSL-YL-V-12

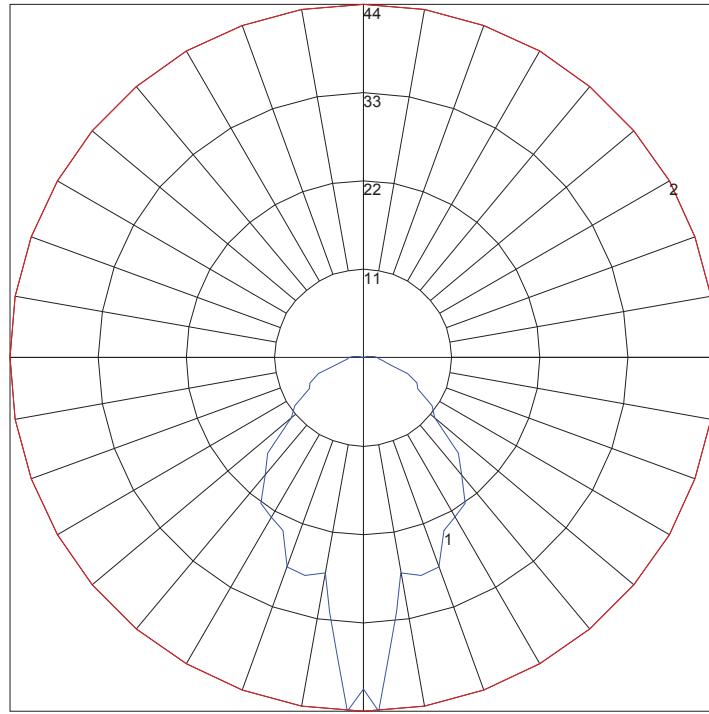
12V Wedge base
Yellow

LSL2-EC-X

X = B (black), W (white)
Litesphere 2.0 End-Cap
Weight: 0.0375 lb
sold each

Photometrics

Based on 2700K LED with Lucia globe



Maximum Candela = 44.19 Located At Horizontal Angle = 0, Vertical Angle = 2.5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Controls



TVOQ-1-WH

White
 16 DMX channel, 16 scene,
 4 zone, glass touch screen



TVOQ-10-XX-7

XX = BK (Black), WH (White)
 1024 DMX channel, 500 scene,
 10 zone, glass touch screen



TVOQ-2-BK

Black
 512 DMX channel, 99 scene,
 1 zone, glass touch screen

Power Supplies

INFINITY - MLV / ELV / 0-10V / PWM / TRIAC

Dim to 1% with a 0-10V Lutron Diva dimmer (by others)

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	MIN LOAD	CIRCUIT CAPACITY
Infinity Series Class 2 Transformer	INF-J-30-1-2.5-12	Indoor / Outdoor	100 - 277V AC	12V DC	1	30W	3W	2.5A
	INF-J-60-1-5-12				1	60W	6W	5A
	INF-J-180-3-5-12				3	3x60W	3x6W	3x5A
	INF-J-300-5-5-12				5	5x60W	5x6W	5x5A

ADNM - NON DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-D	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-D				1	60W	5A
	ADNM-150-2-5-12-D				2	2x60W	2x5A
	ADNM-240-3-5-12-D				3	3x60W	3x5A
	ADNM-320-4-5-12-D				4	4x60W	4x5A

ADNM - 0-10V DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-DOT	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-DOT				1	60W	5A
	ADNM-150-2-5-12-DOT				2	2x60W	2x5A
	ADNM-240-3-5-12-DOT				3	3x60W	3x5A
	ADNM-320-4-5-12-DOT				4	4x60W	4x5A

ADNM - DMX SINGLE ADDRESS

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-DIN	Indoor / Outdoor	100-277V AC 50/60 HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-DIN				1	60W	5A
	ADNM-150-2-5-12-DIN				2	2x60W	2x5A
	ADNM-240-3-5-12-DIN				3	3x60W	3x5A
	ADNM-320-4-5-12-DIN				4	4x60W	4x5A

ADNM - DMX MULTI ADDRESS

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-150-2-5-12-DIN-2	Indoor / Damp	100-277V AC 50/60 Hz	12V DC	2	2x60W	5A
	ADNM-240-3-5-12-din-3				3	3x60W	3x5A



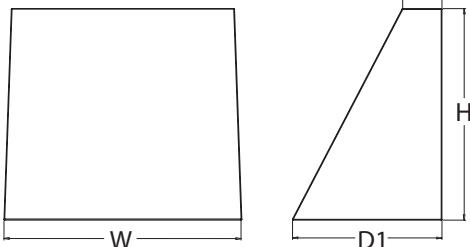
WDGE1 LED

Architectural Wall Sconce



Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 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 true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

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: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT	Shipped included
	P1	30K 3000K	90CRI	VW Visual comfort wide	347 ²	SRM Surface mounting bracket
	P2	35K 3500K				ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ³
		40K 4000K				Shipped separately
		50K ¹ 5000K				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
E4WH ³ Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	DDBXD Dark bronze
PE ⁴ Photocell, Button Type	DBLXD Black
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 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	
DSLE Dual Switching (1 Driver, 2 Light Engines)	
	DBTXD Textured dark bronze
	DBLBXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone



COMMERCIAL OUTDOOR

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

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WDGE1 LED
Rev. 11/16/23

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U	WDGE1 surface-mounted back box (specify finish)

NOTES

- 1 50K not available in 90CRI.
- 2 347V not available with E4WH, DS, DSLE or PE.
- 3 E4WH not available with PE or DS.
- 4 PE not available with DS.
- 5 Not qualified for DLC. Not available with E4WH.

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)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			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	VF	693	99	0	0	0	718	103	0	0	0	739	106	0	0	0	759	108	0	0	0	764	109	0	0	0
		VW	694	99	0	0	0	720	103	0	0	0	740	106	0	0	0	760	109	0	0	0	766	109	0	0	0
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

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

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

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	0.98

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	>0.95	>0.91



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE1 LED
Rev. 11/16/23

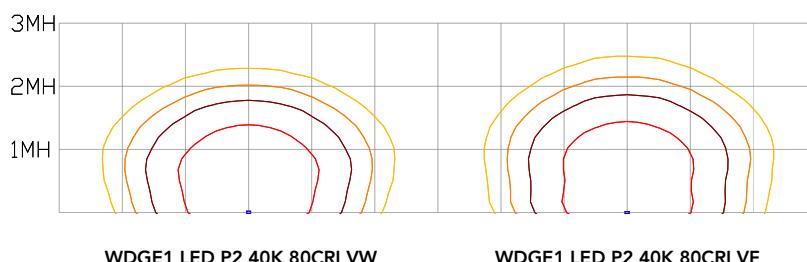
Photometric Diagrams

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.

LEGEND

0.25 fc
0.5 fc
1.0 fc
3.0 fc

MH = 8ft
Grid = 8ft x 8ft



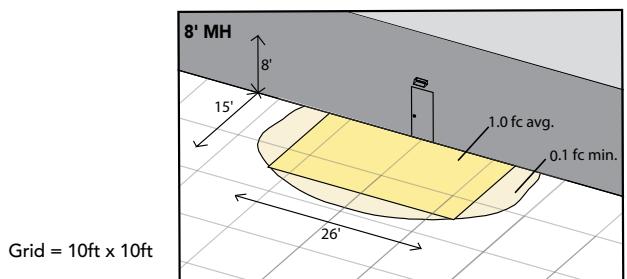
Emergency Egress Options

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

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

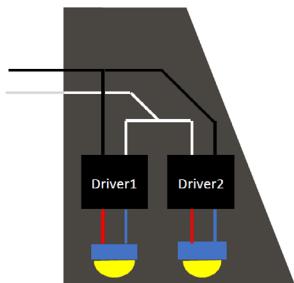


WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark.

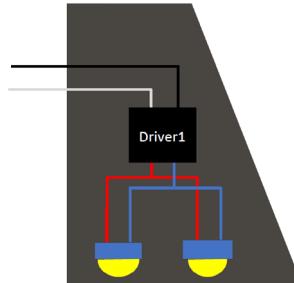
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Dual Switching Light Engine (DSLE) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with one driver and two light engines. These work completely independent to each other so that a failure of either light engine does not cause the whole luminaire to go dark.

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





E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



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 WDGE 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

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE 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/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 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.

FCC600 Down Only, Standard Drivers without Battery Backup

6" Round wall, pendant or surface mount down cylinder outdoor



PHYSICAL

Mounting: Mounts directly to standard recessed junction box with wall mount or twist-lock canopy. Additional holes allow unit to be attached directly to mounting surface. Not intended for open ceilings or surface mount conduit j-box applications. Recessed j-box must be flush with finished wall or ceiling surface.

Ingress Protection: Continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations. SF option rated IP65 for cover ceiling application only.

Finish: Six stage chemical iron phosphate conversion pre-treatment. Polyester powder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification.

Warranty: 5-Year limited warranty (refer to website for details)

Housing: Heavy-walled, extruded aluminum housing with high pressure die-cast lens ring and cap with stainless steel hardware.

Lens: IK09 impact compliant, clear anti-glare tempered glass

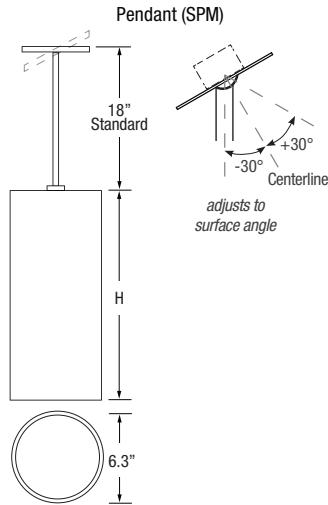
Vibration Resistance: Compliant with 1.5G ANSI C136.31, Seismic rated AC-156

Weight: 8-12 lbs (Depending on Length)

Operating Temperature: -22°F to 122°F (-30°C to 50°C)

PHYSICAL DIMENSIONS

Fixture	Length (H)
FCC600-10	10.95" Height
FCC600-12	12.95" Height
FCC600-14	14.95" Height
FCC600-16	16.95" Height
FCC600-18	18.95" Height
FCC600-20	20.95" Height



FEATURES

- Up to 5000 lm, Up to 100 LPW
- Numerous mounting capabilities
- Clear anti-glare tempered glass lens (IK09)
- Multiple color finishes
- 0-10V 1% Dimming (Standard)
- 1.5G Vibration Tested
- 93 CRI with 2 SDCM

PERFORMANCE

Beam Spread: 15° | 25° | 40° | 50° | 72°

CCT Options: 2700K | 3000K | 3500K | 4000K

CRI: 93 CRI

Consistency: 2 SDCM (Fixture to Fixture)

Lumens: 5000 lm (Max)

Lifetime: > 70,000 hours / L70 or better

ELECTRICAL

Voltage: Universal 120–277V AC standard, 347V optional

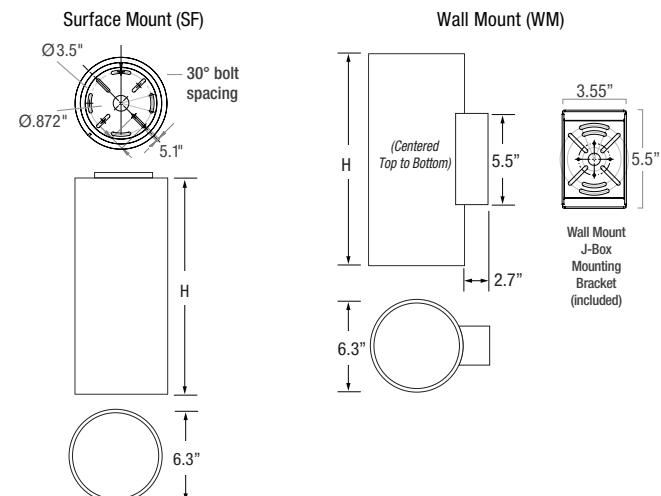
Power Supply: Integral Class II, electronic high-power factor >.90, THD < 20%, FCC Title 47 Part 15 Class A. EldoLED & Lutron optional

Power Consumption: Up to 5000 lm @ 60W

Dimming: Standard: 0-10V, 1% Dimming, Optional: ELV | TRIAC | dim to off | DMX | DALI

Certification: CEC Title 24 - JA8 Compliant (93 CRI Only)

Standards: cETLus Listed, CE, NOM, and RoHS Compliant. Wet location listed for wall or ceiling mount IP65 Ingress protection. 1.5G (ANSI C136.31) Vibration resistance rated. IK09 (IEC6226) Impact resistance rated. IESNA LM79 Photometric testing by NVLAP accredited test lab. IESNA LM80 LED testing by NVLAP accredited test lab. IESNA TM21 Luminaire lumen depreciation projection to >70,000hrs.



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.

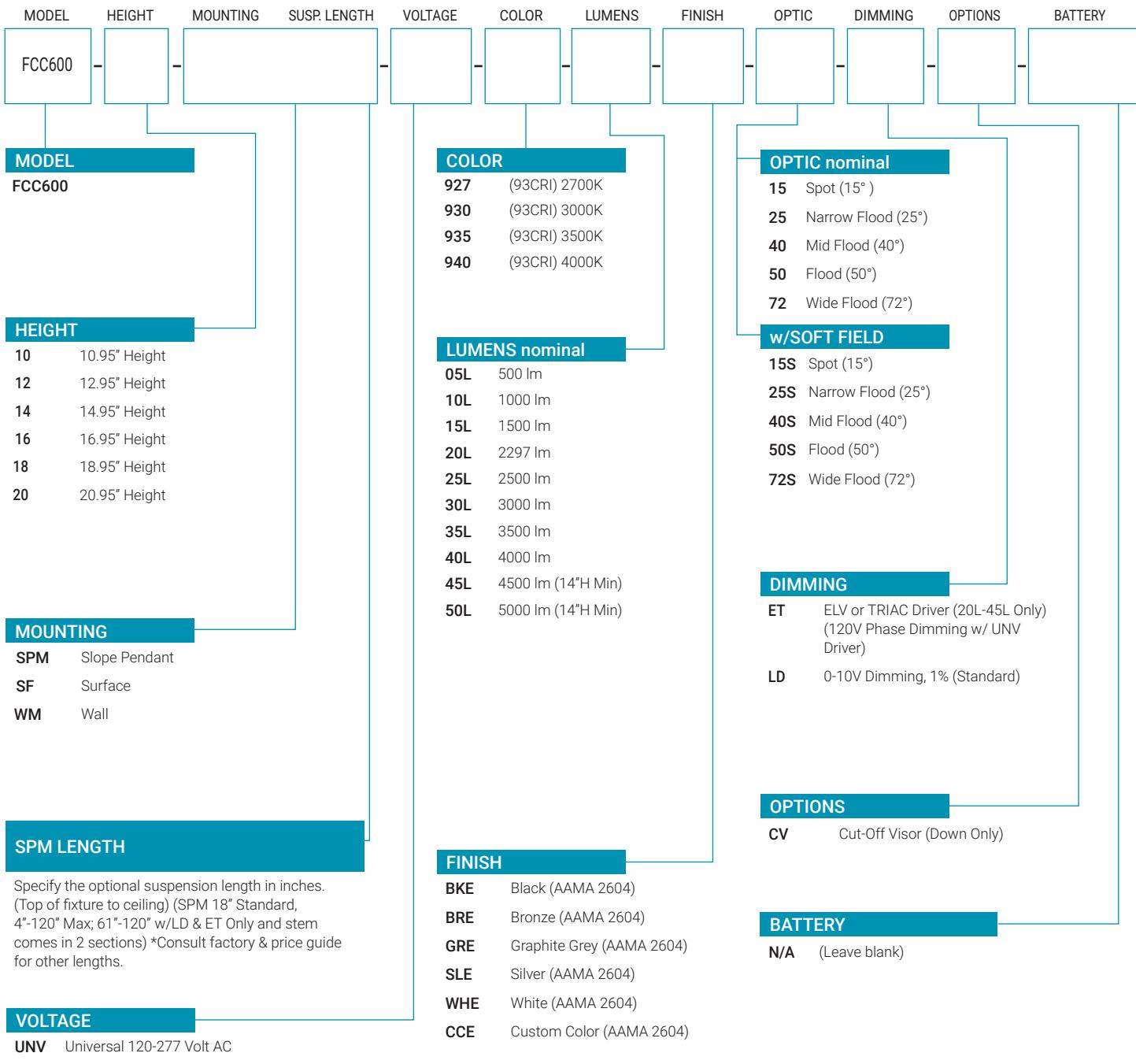


US Commercial Lighting Manufacturer Since 1982

FCC600 Down Only, Standard Drivers without Battery Backup

PRODUCT CODE

EXAMPLE: FCC600-10-SPM-18-UNV-927-05L-BKE-15-ET-CV



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US Commercial Lighting Manufacturer Since 1982

FCC600 Down Only, Standard Drivers without Battery Backup

LUMENS nominal

Model	Watts	940
FCC600	60 W (Max)	500 lm (Min)
		5000 lm (Max)

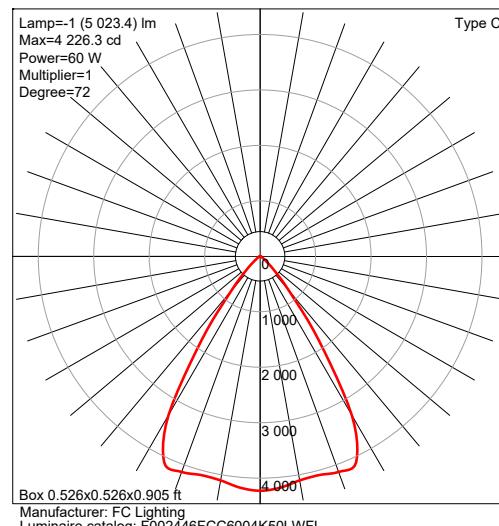
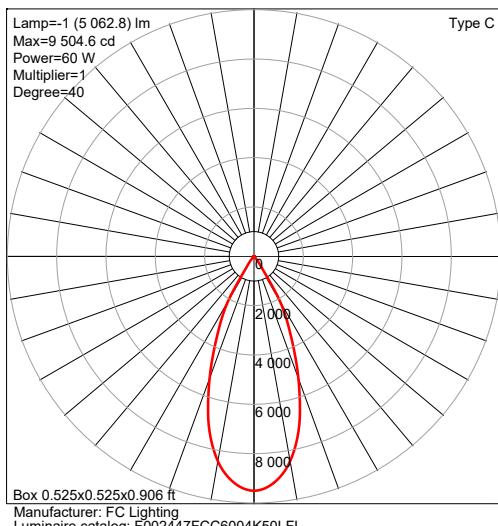
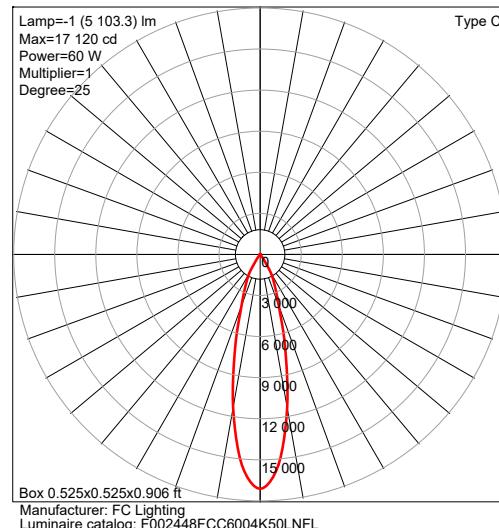
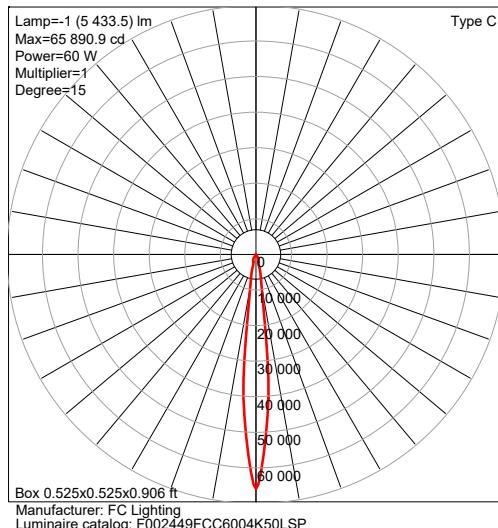
IES Multiplier	
Color	Multiplier
927	0.93
930	0.97
935	0.99
940	1.00

*83CRI≤1.15 Consult factory.

TRIAC & ELV Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Glyder GLV-600
	Diva DVLV-600P
	Diva DV-600P
	Diva DVELV-600P(303)
	Maestro MALV-600
	Nova T NT-1000
	Nova T NTELV-600
	Skylark SLV-600P
	RadioRA2-10ND
	SureSlide 6633
Leviton	Illumatech IPE04

0-10V Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Diva DVSTV-XX
	Diva DVSTV-453PH-WH1
Leviton	Illumatech 010-IP710-DLZ

PHOTOMETRICS



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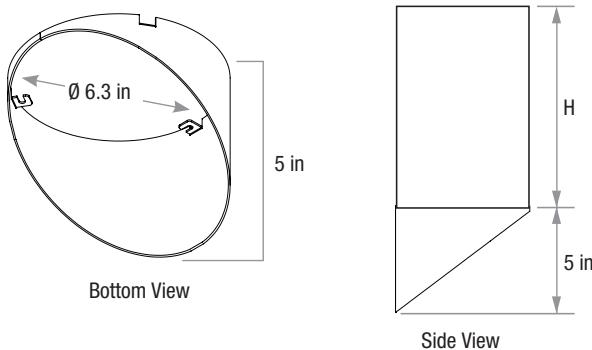


US Commercial Lighting Manufacturer Since 1982

FCC600 Down Only, Standard Drivers without Battery Backup

[MORE DIMENSIONS](#)

Cutt-Off Visor (CV) *(Down Only)*



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 WDGE 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 WDGE 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/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 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

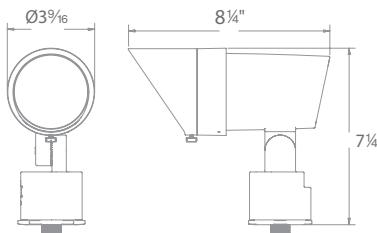
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

GRAND ACCENT 120V

5212

WAC

LANDSCAPE LIGHTING



Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION

Landscape accent luminaire. One fixture replaces all older halogen landscape accent lights

FEATURES

- Adjustable and lockable beam angle
- Integral dimmer
- IP66 rated, Protected against high-pressure water jets
- Includes a detachable shroud
- Solid diecast brass or corrosion resistant aluminum
- Factory sealed water tight fixtures
- 6' lead wire and direct burial gel filled wire nuts included
- Maintains constant lumen output against voltage drop
- UL 1598 Listed
- Not suitable to use with external dimmers

SPECIFICATIONS

Input:	110V - 120VAC
Power:	13W to 31W. 70lm/W
Brightness:	780lm - 2150lm
Beam Angle:	15° to 60°
CRI:	85+
Rated Life:	45,000 hours

ORDERING NUMBER

	Color Temp	Finish	
5212	Grand Accent 120V	30 40	3000K 4000K
		BK BZ BBR	Black on Aluminum Bronze on Aluminum Bronze on Brass

5212-_____

Example: 5212-40BK

waclighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

GRAND ACCENT 120V

5212

WAC
LANDSCAPE LIGHTING

Accessories

Accent Snoot		5211-SNOOT-BK 5211-SNOOT-BZ 5211-SNOOT-BBR	Black on Aluminum Bronze on Aluminum Bronze in Brass	Shields lamp and reduces glare	
6" Long Shroud		5211-LSHR-BZ 5211-LSHR-BK 5211-LSHR-BBR	Black on Aluminum Bronze on Aluminum Bronze in Brass	Reduce glare. Ideal for downlighting application	
Power Stake		M6000-STAKE	PVC	Easy wiring accessory designed for 12V & 120V products. Eliminates the need for a separate Junction box.	
Tree Mount Junction Box		5000-TCP-BZ	Bronze on Aluminum	Bronze on Aluminum box with Stainless steel mounting screws. Two 1/2" NPT threaded holes	
Optics		LENS-25-AMB LENS-25-GRN LENS-25-RED	Amber Green Red	LENS-25-BLU Blue LENS-25-FR Frosted	Enhances saturation of florals and foliage
Extension Rods		5000-X04-BZ 5000-X08-BZ 5000-X12-BZ	4 in 8 in 12 in	5000-X18-BZ 18 in 5000-X24-BZ 24 in	Extends distance between Accent light and Surface Mount Canopy, Stake, or Tree Mount box
Rod L-Coupler		5000-LCO-BZ	Bronze		

waclighting.com

Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center

44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center

1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center

1750 Archibald Avenue
Ontario, CA 91760

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum, 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

A+ CAPABLE LUMINAIRE — This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products. All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency — including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates. To learn more about A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1996 Discomfort Gare in Interior Lighting. [UGR FAQs](#)

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product. Drivers are ROHS compliant

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.

PERFORMANCE DATA

LDN4			
Nominal	Lumens	Wattage	Lm/W
500	523.6	5.74	91.2
750	751.1	8.6	87.3
1000	1045	10.58	98.8
1500	1512	17.5	86.4
2000	2006	22.12	90.7
2500	2551	26.1	97.7
3000	3007	32.1	93.7
4000	4212	43	98.0

Notes

Tested in accordance with IESNA LM-79-08

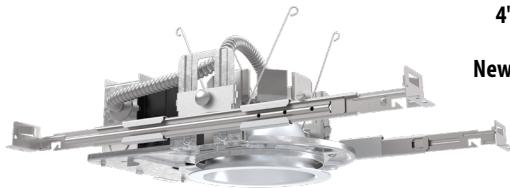
Tested to current IES and NEMA standards under stabilized laboratory conditions

Based on LDN4 AR LSS 35K 80CRI



Catalog Number	
Notes	
Type	

LDN4 STATIC WHITE



4" Open and Wallwash LED
Non-IC
New Construction Downlight

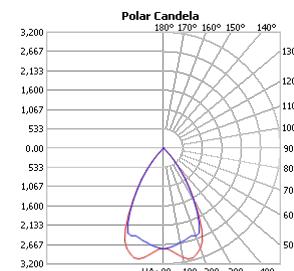


Open Trim

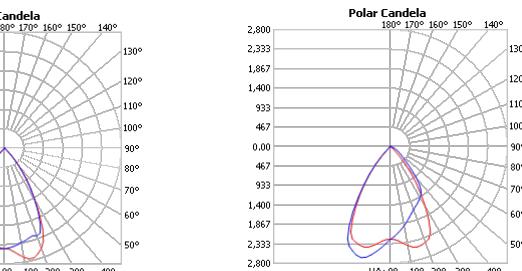


Wallwash Trim

DISTRIBUTIONS



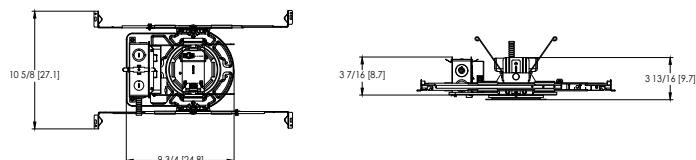
Open



Wallwash

DIMENSIONS

LDN4 500-2000 Lumens



Aperature: Ø 4-5/16" [11]
Ceiling Cutout: Ø 5-1/8" [13] Self-flanged
Overlap Trim: Ø 5-7/16" [13.8]
Ceiling Cutout: Ø 5-1/4" [13.3] Rangeless

See page 4 for other fixture dimensions

ORDERING INFORMATION

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

Example: LDN4 35/15 L04 AR LSS MVOLT EZ

LDN4							
Series	Color temperature	Lumens ‡		Trim Style	Trim Color	Trim Finish	Flange Color ‡
LDN4 4" round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens	20 2000 lumens 25 2500 lumens 30 3000 lumens 40 4000 lumens	L04 Downlight LW4 Wallwash	AR Clear WR ‡ White BR ‡ Black TRALTBD ‡ RAL painted trim TCPC ‡ Custom painted trim	LSS Semi-specular LD Matte diffuse LS Specular	TRW White painted flange TRBL Black painted flange FRALTBD RAL painted flange only FCPC Custom painted flange only

Voltage	Driver	Emergency ‡	Control Input ‡
MVOLT Multi-volt 120 120V 277 277V 347 ‡ 347V	GZ10 0-10V driver dims to 10% GZ1 0-10V driver dims to 1% D10 Minimum dimming 10% driver for use with JOT D1 Minimum dimming 1% driver for use with JOT EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1% EDAB eldoLED DALI SOLDRIVE dim to dark	(blank) No emergency option EL Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELR Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS ELSD Emergency battery pack with self-diagnostics, 10W Constant Power, integral test switch. Not Certified in CA Title 20 MAEDBS ELRSD Emergency battery pack with self-diagnostics, 10W Constant Power, remote test switch. Not Certified in CA Title 20 MAEDBS E10WCP Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDBS E10WCPR Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDBS E10WRSTAR Emergency battery pack, 10W with remote test switch and Iota STAR technology	(blank) No control option NPP16D nLight® network power/relay pack with 0-10V dimming for non-ledoLED drivers (GZ10, GZ1). NPP16DER nLight® network power/relay pack with 0-10V dimming for non-ledoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit. N80 JOT nLight™ Lumen Compensation Wireless room control with "Just One Touch" pairing NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. NPS80EZR nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit. NLTAIR2 nLight® Air enabled NLTAIRER2 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options NLTAIREM2 nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.

Options
HAO ‡ High ambient option (40°C)
CP ‡ Chicago Plenum
RRL _____ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
BAA Buy America(n) Act Compliant
90CRI High CRI (90+)
SF ‡ Single fuse



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

(Maximum order quantity for design select lead times is 160.)

‡ Option Value Ordering Restrictions

Option value	Restriction
Lumen Packages	Overall height varies based on lumen package, refer to dimensional charts on page 4
WR, BR	Not available with finish (LSS, LD, LS)
TRALTBD, FRALTBD	RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options.
TRW, TRBL	Available with clear (AR) trim color only
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details
347	Not available with emergency options
All Emergency	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER	Not available with MVOLT. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
SF	Must specify 120 or 277 volt
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZR ER. Only available with EZ10 and EZ1 drivers.
NPP16D, NPP16DER, NPP80EZ, NPS80EZR	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
NLTAIR2, NLTAIRER2, NLTAIREM2	Not available with CP, NPS80EZ, NPS80EZR, NPP16D, NPP16DER or N80 options. Not recommended for metal ceiling installations.
NLTAIR2	When combined with EZ1 or EZ10 drivers, can be used as a normal power
JOT	Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
HAO	Fixture height is 5-11/16" for all lumen packages with HAO.
CP	Must specify voltage for 3000lm. Not available with emergency battery pack option.
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch.

Accessories: Order as separate catalog number.	
PS1055CP	FMC Power Sentry battterypack, T20 compliant, field installable, 10w constant power
EACISSM 375	Compact interruptible emergency AC power system
EACISSM 125	Compact interruptible emergency AC power system
GRA46 JZ	Oversized trim ring with 6" outside diameter
SCA4	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HESD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL 924 Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

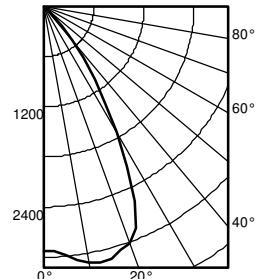
The CP10 delivered emergency illuminations outperforms legacy 1400 lumen fluorescent emergency ballasts.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

PHOTOMETRY

Distribution Curve Distribution Data Output Data Illuminance Data at 30" Above Floor for a Single Luminaire

LDN4 35/30 LO4AR, input watts: 32.1, delivered lumens: 3122.6, LM/W = 88.52, spacing criterion at 0= 1.04, test no. ISF 30712P249.



Ave	Lumens	Zone	Lumens	% Lamp	50% beam -	10% beam -			
0	2927	0° - 30°	2301.2	73.7	55.6°	78.0°			
5	2989	0° - 40°	2968.2	95.1					
15	3120	0° - 60°	3121.1	100.0					
25	2575	0° - 90°	3122.6	100.0					
35	1062	90° - 120°	0.0	0.0					
45	149	90° - 130°	0.0	0.0					
55	3	90° - 150°	0.0	0.0					
65	2	90° - 180°	0.0	0.0					
75	0	0° - 180°	3122.6	*100.0					
85	0	*Efficiency							
		Mounting	Center	Height	Beam	Diameter	FC	Diameter	FC

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

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

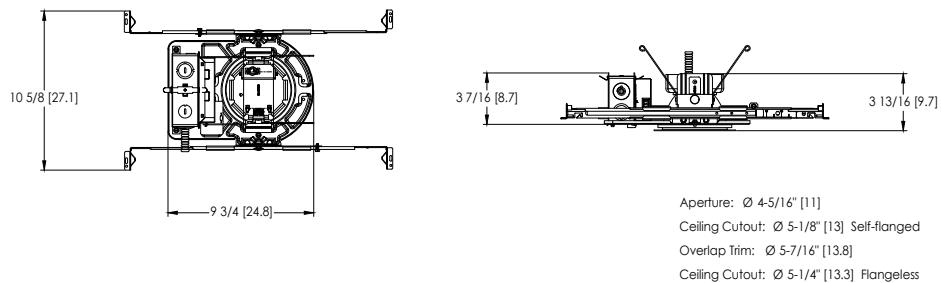
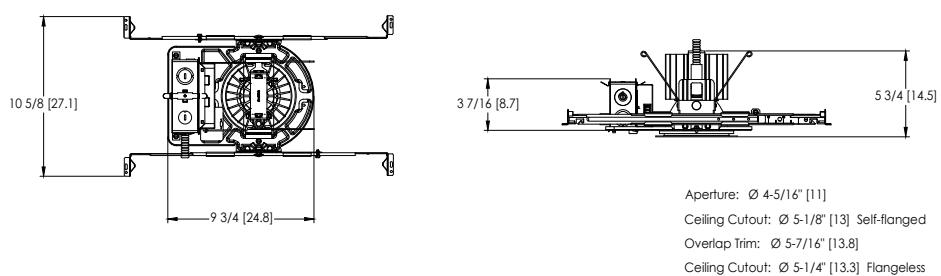
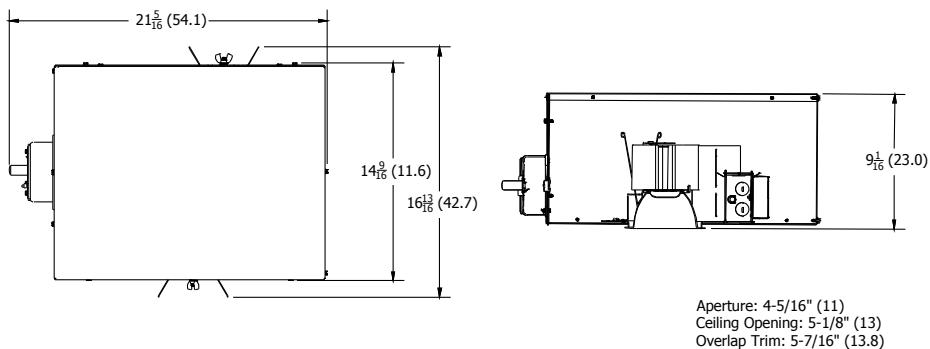
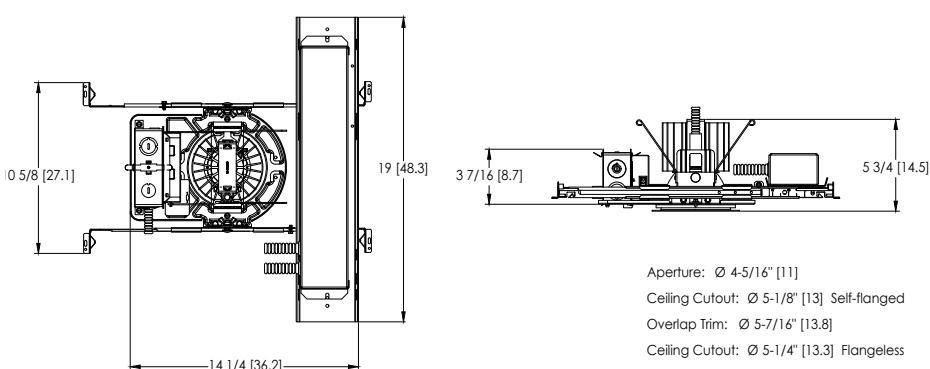
Delivered Lumens = 1.25 x P x LPW

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

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

The LPW rating is also available at [Designlight Consortium](#).

* All dimensions are inches (centimeters) unless otherwise noted.

LDN4 500-2000 Lumens**LDN4 2000-4000 Lumens****LDN4 CP****LDN4 EL**

ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram



LDN4 Series



- Power:** Install JOT enabled fixtures and controls as instructed.
- Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

Sensor Switch
WSXA JOT

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DTV	
	Diva® DVSTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.

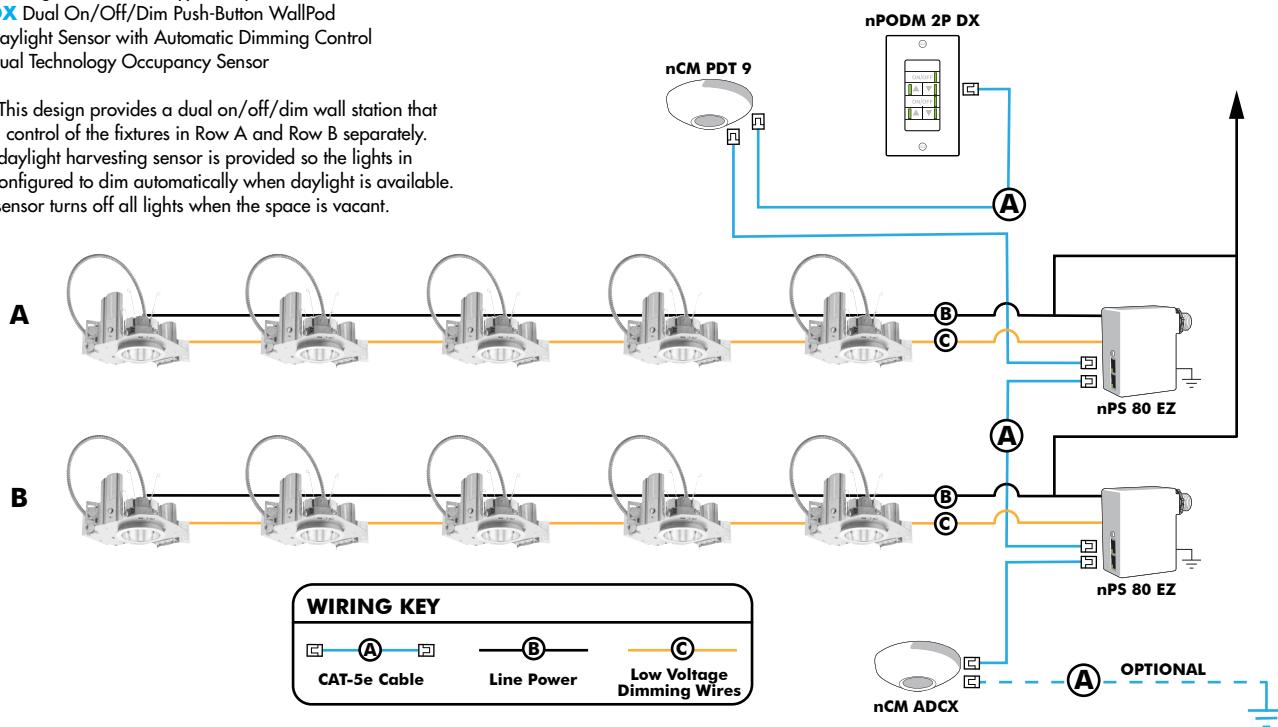
nPS 80 EZ Dimming/Control Pack (qty: 2 required)

nPODM 2P DX Dual On/Off/Dim Push-Button WallPod

nCM ADCX Daylight Sensor with Automatic Dimming Control

nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

**Choose Wall Controls**

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:			
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.			
WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

nLight® AIR Control Accessories: Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair .	
Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

1 Can only be ordered with the RES7Z zone control sensor version.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight AIR

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

**Simple as 1,2,3**

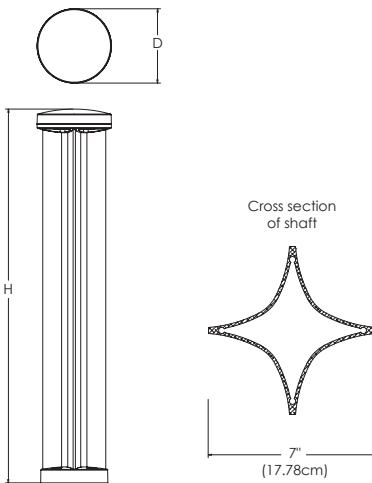
1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome





RADEAN Bollard

LED Site Luminaire



Specifications

Diameter: D = 8.25" (20.96cm)

Height: H = 41.5" Standard (105.41cm)

Weight (max): 20lbs (9.07Kg)

Catalog Number

Notes

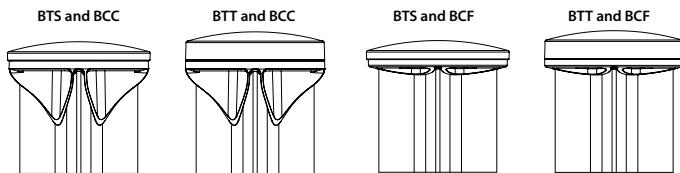
Type

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

Introduction

The Radean LED Bollard is an award-winning, energy-saving, long-life solution designed to perform the way a bollard should.

The Radean LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.



Ordering Information

EXAMPLE: RADB LED P4 30K SYM MVOLT BTS BCCDNATXD DBLXD

RADB LED							
Series	Performance Package	Color temperature	Distribution	Voltage	Control options	Bollard top (required)	
RADB LED	P1	27K 2700 K	ASY	Asymmetric ²	MVOLT ³	Shipped installed	Slim Top
	P2	30K 3000 K	SYM	Symmetric ¹	120	PE Photoelectric cell, button type ^{4,5}	BTS Slim top, painted to match shaft ^{5,9}
	P3	35K 3500 K			208 ³	DMG 0-10V dimming driver (no controls)	BTSDWHD Slim top, white ^{5,9}
	P4	40K 4000 K			240 ³	E7WH Emergency battery backup, Certified in CA Title 20 MAEDBSI ^{6,7,8}	BTSDBLXD Slim top, black texture ^{5,9}
	P5 ¹	50K 5000 K			277	FAO Field adjustable output ⁵	BTSDBLX Slim top, black ^{5,9}
					347	PIR Motion sensor Bi-level ^{3,5,6,7}	BTSDDBX Slim top, dark bronze textured ^{5,9}
					480		BTSDDBX Slim top, dark bronze ^{5,9}
							BTTDNATXD Slim top, natural aluminum textured ^{5,9}
							BTTDNAXD Slim top, natural aluminum ^{5,9}
							BTTDWHD Slim top, white textured ^{5,9}
							BTTDWHD Slim top, white ^{5,9}

Bollard crown (required)	Other options	Finish (required)
Deep Crown		
BCC Deep crown, painted to match shaft ⁹	BCF Flat crown, painted to match shaft ⁹	H24 ^{6,10} 24" overall height
BCCDWHXD Deep crown, white ⁹	BCFDBLXD Flat crown, black textured ⁹	H30 ^{6,10} 30" overall height
BCCDBLXD Deep crown, black ⁹	BCFDBLX Flat crown, black ⁹	H36 ^{6,10} 36" overall height
BCCDBLBD Deep crown, black textured ⁹	BCFDDBTXD Flat crown, dark bronze textured ⁹	L/AB Without anchor bolts
BCCDBBTXD Deep crown, dark bronze textured ⁹	BCFDDBXD Flat crown, dark bronze ⁹	DDBXD Dark bronze
BCCDBBXD Deep crown, dark bronze ⁹	BCFDNATXD Flat crown, natural aluminum textured ⁹	DBLXD Black
BCCDNATXD Deep crown, natural aluminum textured ⁹	BCFDNAXD Flat crown, natural aluminum ⁹	DNAXD Natural aluminum
BCCDNAXD Deep crown, natural aluminum ⁹	BCFDWHD Flat crown, white textured ⁹	DWHXD White
BCCDWHGD Deep crown, white textured ⁹	BCFDWHD Flat crown, white ⁹	DDBTXD Textured dark bronze
		DBLBD Textured black
		DNATXD Textured natural aluminum
		DWHGXD Textured white

Accessories

Ordered and shipped separately.

RADBAB U	Anchor bolts (4)	RK1RADB BCKIT (FINISH) U	Base cover with bolt caps
RADBABC DBBXD U	Replacement anchor bolt covers (specify finish) (4)	RK1RADB EMTESTMAG U	Emergency test stylus

NOTES

1 P5 only available in SYM distribution.

2 ASY has only two illuminated quadrants driven at higher drive currents to generate similar output as the SYM-4-quadrant product.

3 PIR not available with 208V or 240V.

4 PE only available with ASY.

5 PE, PIR and FAO not available with BTS.

6 E7WH and PIR only available in full height. Not available with H24, H30 or H36.

7 PIR not available with E7WH.

8 E7WH is not available with 480V or 480V.

9 Architectural and custom colors available (additional leadtimes and cost may apply).

10 42" Height is standard. H24, H30 and H36 have longer leadtimes.



COMMERCIAL OUTDOOR

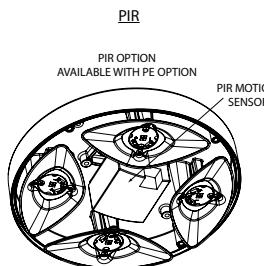
One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

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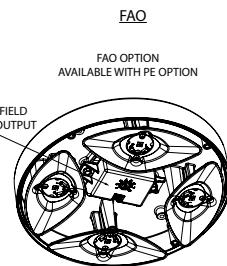
RADB-LED

Rev. 10/25/22

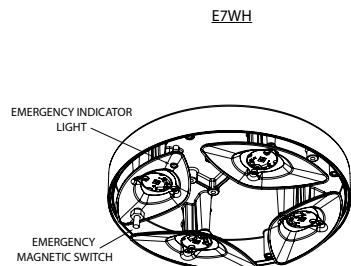
Options



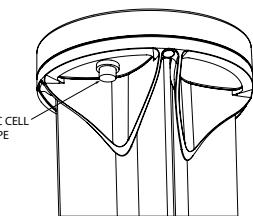
Only available with BTT tops



Only available with BTT tops



Only available with ASY



Only available with ASY

Performance Data

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

Performance Data DNAXD Finish*

Light Engines	Performance Package	System Watts	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
"Symmetric (4 light engines)"	P1	5	345	0	1	0	66	362	0	1	0	69	370	0	1	0	71	380	0	1	0	73	382	0	1	0	73
	P2	8	644	0	1	0	81	677	0	1	0	85	692	0	1	0	87	711	0	1	0	89	713	0	1	0	89
	P3	13	1036	1	1	0	77	1088	1	1	0	81	1112	1	1	0	83	1142	1	1	0	85	1146	1	1	0	85
	P4	19	1460	1	1	0	79	1534	1	1	0	83	1568	1	1	0	84	1610	1	1	0	87	1616	1	1	0	87
	P5	32	2314	1	1	0	72	2430	1	1	0	75	2484	1	1	0	77	2551	1	1	0	79	2561	1	1	0	79
"Asymmetric (2 light engines)"	P1	5	312	0	1	0	60	328	0	1	0	63	335	0	1	0	64	344	0	1	0	66	346	0	1	0	66
	P2	8	584	0	1	0	73	613	0	1	0	77	627	0	1	0	78	644	0	1	0	81	646	0	1	0	81
	P3	13	938	0	1	0	70	985	0	1	0	73	1007	0	1	0	75	1035	0	1	0	77	1038	0	1	0	77
	P4	19	1323	0	1	0	71	1390	0	1	0	75	1420	0	1	0	76	1459	0	1	0	78	1464	0	1	0	79

***Note:** Lumen output varies based on finish. Silver color shown, for black (worst) or white (best) photometry, see specific photometric files downloadable from www.acuitybrands.com

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.

Projected LED Lumen Maintenance				
	25,000	50,000	75,000	100,000
P1	0.94	0.89	0.85	0.80
P2	0.94	0.89	0.85	0.80
P3	0.94	0.89	0.85	0.80
P4	0.94	0.89	0.85	0.80
P5	0.94	0.89	0.85	0.80

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient	LAT Factor
0	32°F
5	41°F
10	50°F
15	59°F
20	68°F
25	77°F
30	86°F
35	95°F
40	104°F

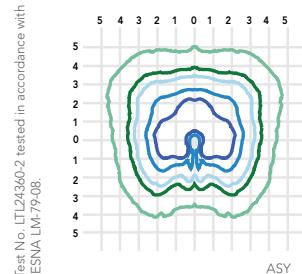
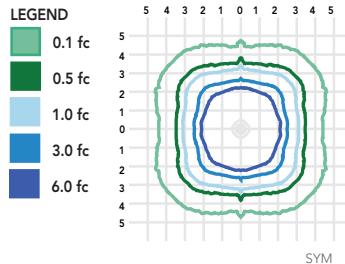
Electrical Load

	Current (Amp)					Current (Amp)				
	Watts @120V (W)	Watts @277V (W)	@120V (A)	@208V (A)	@240V (A)	(@277V) (A)	Watts (@347V)	Watts (@480V)	(@347V) (A)	(@480V)
P1 ASY	5	6	0.0445	0.0299	0.0276	0.0262	10	10	0.0443	0.0319
P2 ASY	9	10	0.0751	0.0471	0.0429	0.0399	14	14	0.0505	0.0364
P3 ASY	14	15	0.1147	0.0699	0.0627	0.0571	18	18	0.0611	0.0441
P4 ASY	19	19	0.1586	0.0928	0.0819	0.0735	23	23	0.0709	0.0513
P1 SYM	5	6	0.0444	0.0301	0.0279	0.0265	9	9	0.0441	0.0319
P2 SYM	9	10	0.0734	0.0461	0.0421	0.0391	13	13	0.0502	0.0363
P3 SYM	13	14	0.112	0.067	0.0598	0.0544	18	18	0.0602	0.0435
P4 SYM	18	19	0.1535	0.0902	0.0796	0.0713	22	22	0.0691	0.0499
P5 SYM	31	31	0.2597	0.1527	0.1326	0.1149	35	36	0.1079	0.079

Photometric Diagrams

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

Isofootcandle plots for the RADB. Distances are in units of mounting height (3.5').



Test No. LTL24348 tested in accordance with
IESNA LM-79-08.

FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and maintenance-free performance of the Radean LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

CONSTRUCTION

One-piece extruded aluminum shaft with thick side walls for extreme durability, and die-cast reflector and top cap. Four 3/8" x 7" anchor bolts with double nuts and washers and 5-2/3" max. bolt circle template ensure stability. Overall height is 42" standard.

FINISH

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

OPTICS

Two optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination. Light engines are available in 2700K, 3000K, 3500K, 4000K or 5000K.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L80/100,000 hours at P5 at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Emergency battery backup rated for -10°C minimum ambient. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less. U.S. Patent No. D912,850S

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

Five-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 and color.

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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RADB-LED
Rev. 10/25/22