

DESCRIPTION

The Arbor Bollard from Invue brings architectural style to the pedestrian level. The Arbor Bollard can be used along with Arbor post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pixilation free image replacing visible glare, while providing high levels of pavement illumination.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Top Housing: Low copper, cast aluminum top maintains strength and precision while providing for: rapid heat dissipation, vandal resistance and superior dayform. Lower Housing: Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. BASE: Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

Optics

General purpose symmetric distribution is available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT, optional 3000K minimum 80 CRI.

Electrical

LED driver(s) are mounted to electrical tray for easy installation

and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Cooper Lighting Solutions' proprietary circuit module designed to withstand 10kV of transient line surge. Luminaire is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP66 rated against the ingress of dust and water.

Controls

The Arbor Bollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSP) and bi-level dimming (MSP/DIM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

Mounting

Luminaire is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle to withstand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

Finish

Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC

based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Cooper Lighting Solutions to serve functionally as well as decorative. Good film appearance combined with excellent mechanical and 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

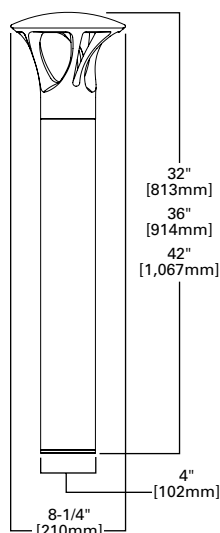
Warranty

Five-year warranty.

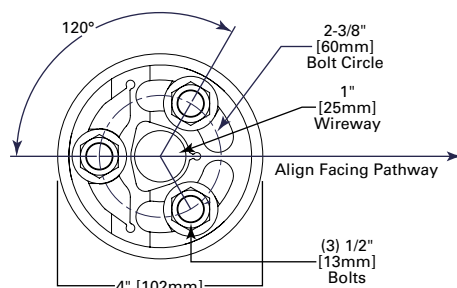
**ABB ARBOR
BOLLARD**

PATHWAY LUMINAIRE

DIMENSIONS



BOLT CIRCLE ORIENTATION



CERTIFICATION DATA



UL/cUL Listed
IP66 Housing
ISO 9001
RoHS
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
-30°C Minimum Temperature
40°C Ambient Temperature Rating

Approximate Net Weight:
19.25 lbs. [8.75 kgs.]

POWER AND LUMENS

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
Drive Current				
Power Wattage (Watts)	16W	32W	11W	23W
Input Current (mA) @ 120V	140	270	100	200
Input Current (mA) @ 208V	80	160	60	120
Input Current (mA) @ 240V	70	140	50	100
Input Current (mA) @ 277V	60	120	40	90
Power Wattage (Watts)	19W	37W	13W	27W
Input Current (mA) @ 347V	60	110	40	80
Input Current (mA) @ 480V	180	320	120	240
Optics				
Lumens	717	1,276	472	848
BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>94%	>350,000
40°C	>93%	>250,000
50°C	>90%	>170,000

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

LUMEN MULTIPLIER

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

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier (Hours)
4000	70	1.00
3000	80	0.87

ORDERING INFORMATION

Sample Number: ABB-B2-LED-42-D1-A-GM

Product Family	Lumen Output ¹	CRI / CCT	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard BAA-ABB=Arbor Bollard Buy American Act Compliant ¹⁰	B1=Mid Lumen Output B2=High Lumen Output	8027=80 CRI / 2700K CCT 8030=80 CRI / 3000K CCT ⁶	LED	30=32" 36=36" 42=42"	D1=Dimming Driver (120-277V) ² 347=347V ³ 480=480V ^{3,4}	A=Asymmetric S=Symmetric	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color ⁵
Options (Add as Suffix)					Accessories (Order Separately) ¹¹		
8030=80 CRI / 3000K CCT ⁶ HA=High Ambient ⁷ MS/DIM-H8=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) ⁸ MS/DIM-2H8=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) ⁸ DIM=0-10V Dimming Driver Leads Brought Out from Fixture					ABAnchor=Anchor Bolt Kit and Template ⁹ ISHH=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)		

NOTES:

- Standard 4000K CCT nominal 70 CRI.
- Dimming driver standard.
- 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).
- RAL and custom color matching available. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- 50°C ambient rating.
- The ISHH configuration tool is required to adjust parameters including high and low dimming levels, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Contact your customer service representative at Cooper Lighting Solutions for advance shipping.
- 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.

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO Commercial

HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

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- Product Specifications page 4
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- Energy & Performance Data page 8
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- Product Warranty

Product Certification



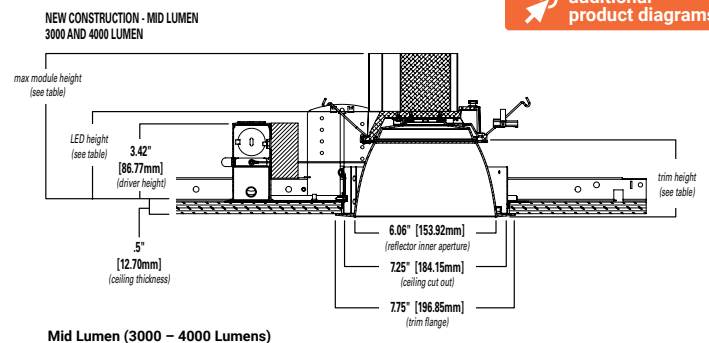
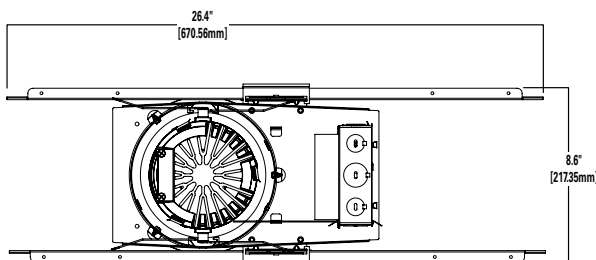
Product Features



Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling

Dimensional and Mounting Details



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

Order Information

Sample Number: HC620D010REM7 – HM60525835 - 61MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
HC6 = 6" new construction downlight housing HC6CP = 6" new construction housing, Chicago Plenum - CCEA compliant	05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm ⁽⁷⁾ 50 = 5000 lm ⁽⁷⁾ 55 = 5500 lm ⁽⁷⁾ 60 = 6000 lm ⁽⁷⁾	D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-5000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lm models only ⁽¹⁾ Canada Option 5500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only ⁽¹⁾ DLV = Distributed Low Voltage driver 1%-100% dimming. DLV for use with DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details. ⁽¹⁾	REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} ITEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} ITEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ^{(1) (2) (6)} BOD7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only ^{(1) (2) (6)} WTA = Factory WaveLinX Tilemount Sensor Kit ⁽⁴⁾ WTK = Factory WaveLinX Lite Commercial Tilemount Sensor Kit ⁽⁵⁾ REM7V = 7 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} REM14V = 14 watt emergency battery pack with remote test / indicator light, use with DLV only ^{(1) (2) (3) (6)} ITEM7V = 7 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)} ITEM14V = 14 watt emergency battery pack with integral test / indicator light, use with DLV only ^{(1) (2) (3) (6)}	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long HSA6 = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim) H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinX Tilemount Sensor Kit ⁽⁴⁾ WTK = Field WaveLinX Lite Commercial Tilemount Sensor Kit ⁽⁵⁾
Notes	Notes (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5	Notes (1) Not available with CP models	Notes (1) Not available with CP models (2) Not available with D010347 (347V models) (3) ULus for U.S. only (4) WTA = WaveLinX tile mount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX specifications) (5) WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite specifications) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C	Notes (4) WTA = WaveLinX tile mount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX specifications) (5) WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite specifications)

LED Module	Lumens	CRI/CCT
LED Module	Lumens	CRI/CCT
HM6 = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen	827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K 927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K
Notes	Notes	Notes

Order Information

Reflector	Distribution	Finish	Flange	Accessories
Reflector	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" conical reflector	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Baffle	Distribution	Finish	Flange	Accessories
Baffle	Distribution ⁽⁸⁾	Finish	Flange	Accessories
61 = 6" baffle reflector	WD = wide 65° beam angle 1.28 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option available with BB	61RWWPK = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

IEM Reflector	Distribution	Finish	Flange	Integral Emergency
IEM Reflector	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM reflector for integral emergency only	ND = narrow 55° beam angle 0.97 SC MD = medium 60° beam angle 1.10 SC WD = wide 65° beam angle 1.28 SC	C = Specular clear H = Semi-specular clear W = White	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

IEM Baffle	Distribution	Finish	Flange	Integral Emergency
IEM Baffle	Distribution ⁽⁸⁾	Finish	Flange	Integral Emergency
61 = 6" IEM baffle reflector for integral emergency only	WD = wide 65° beam angle 1.28 SC (nominal)	BB = Black baffle WB = White baffle	Blank = White flange standard with BB, & WB BF = Black flange option with BB	IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
Notes	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes	Notes

Reflector	Distribution	Finish	Flange
Reflector	Distribution ⁽⁸⁾	Finish	Flange
61PS = 6" non-conductive polymer 'dead front' conical reflector ⁽⁹⁾	MD = medium 60° beam angle 1.10 SC (nominal)	W = White	Blank = White flange standard with W reflector
Notes (9) 61PS is 1000-2000 lumens Non-IC rated. 500 & 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.	Notes (8) Values are nominal, with specular clear reflector, other finishes and field results may vary.	Notes	Notes

Product Specifications

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
- Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

Reflector/Module Retention

- Reflector/module assembly is securely retained in the housing with two torsion springs

Driver

- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0-10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch

Connected Lighting System Options

Two WaveLinX connected systems to choose. Summary information provided below, refer to WaveLinX system specifications and application guides for details.

WaveLinX System Tilemount Sensor Kit

- WaveLinX WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinX Lite System Tilemount Sensor Kit

- WaveLinX Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinX Tilemount Kits Application

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Listed to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
 - Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
 - IP20 - Above finished ceiling; IP65 - Below finished ceiling
 - Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
 - Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
 - Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
 - Marked Spacing Center to Center of Adjacent Luminaires = 36"
 - Center of Luminaire to Building Member = 18"
 - Minimum overhead = 0.5"
 - Airtight per ASTM-E283-04
 - Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
 - EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
 - Contains no mercury or lead and RoHS compliant
 - Photometric testing completed in accordance of IES LM-79-08
 - Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
 - 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
 - May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
 - ENERGY STAR® certified, reference certified light fixtures database
- *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

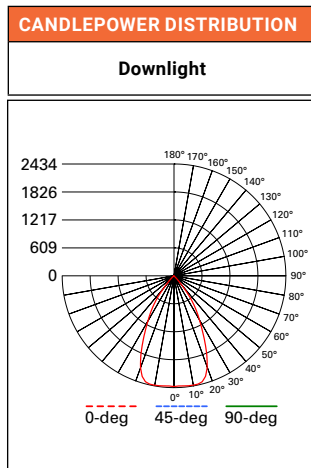
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Photometric Data



NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7



CONE OF LIGHT

MH	FC	L	W
5.5'	80.2	5	5
7'	49.5	6.4	6.4
8'	37.9	7.4	7.4
9'	30	8.2	8.2
10'	24.3	9.2	9.2
12'	16.9	11	11

CANDELA TABLE

Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

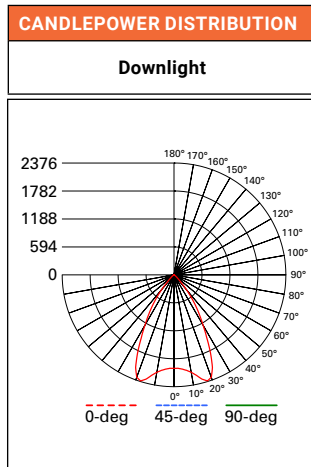
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8



CONE OF LIGHT

MH	FC	L	W
5.5'	68.7	5.6	5.6
7'	42.4	7.2	7.2
8'	32.5	8.2	8.2
9'	25.7	9.4	9.4
10'	20.8	10.4	10.4
12'	14.4	12.4	12.4

CANDELA TABLE

Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

LUMINANCE

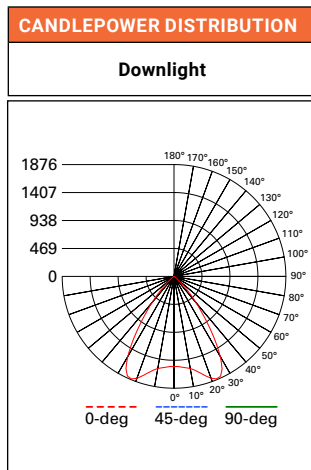
Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

Photometric Data



WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)	
Test Number	P581885
Housing	HC620D010
Module	HM60525835
Reflector	61WDC
Lumens	2359 Lm
Efficacy	118 Lm/W
SC	1.28
UGR	11.6



CONE OF LIGHT			
MH	FC	L	W
5.5'	50.5	7	7
7'	31.2	8.8	8.8
8'	23.9	10.2	10.2
9'	18.8	11.4	11.4
10'	15.3	12.8	12.8
12'	10.6	15.4	15.4

CANDELA TABLE	
Degrees Vertical	Candela
0	1526
5	1540
15	1685
25	1861
35	1027
45	252
55	32
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1461	61.9
0-40	2105	89.2
0-60	2351	99.6
0-90	2359	100
90-180	0	0
0-180	2359	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

*Value are nominal with specular clear reflectors, other finishes and field results may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

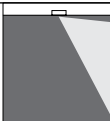
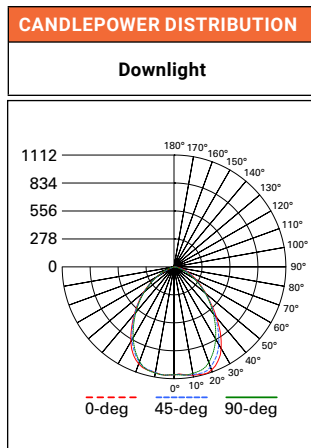
Multipliers for relative lumen values with other series color temperatures.

Photometric Data

 View IES files

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15

CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES

2.5' from wall (distance from fixture along wall)							
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6
3	27.6	22.5	13.8	7.3	3.7	1.9	1
4	21	18.2	12.4	7.4	4.2	2.4	1.4
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5
8	4.7	4.6	4.1	3.4	2.7	2	1.4
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1

MULTIPLE UNIT FOOTCANDLES

2.5' from wall (Distance from fixture along)				2.5' from wall (Distance from fixture along)		
3'				4'		
1	21.5	19.1	21.5	20	12.1	20
2	34.7	34.4	34.7	31.6	24.6	31.6
3	34.9	36	34.9	31.3	27.6	31.3
4	28.4	30.7	28.4	25.2	24.8	25.2
5	21	23.2	21	18.6	19.8	18.6
6	15.2	16.8	15.2	13.4	15	13.4
7	11	12	11	9.9	11	9.9
8	8.1	8.7	8.1	7.4	8.2	7.4
9	6.1	6.5	6.1	5.6	6.2	5.6
10	4.6	4.9	4.6	4.3	4.7	4.3

Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

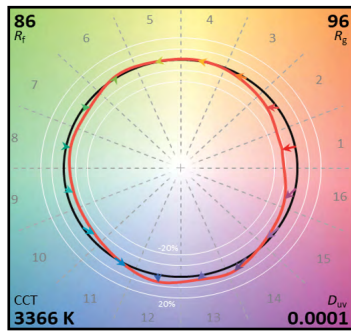
Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

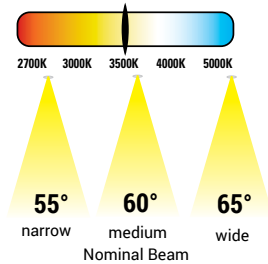
Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)

80 CRI Color Metric Summary - 3500K*

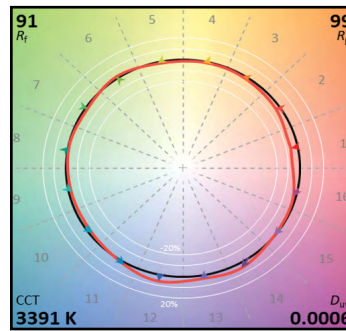


TM-30-15	Rf = 86
	Rg = 95.5
CRI/CIE	Ra = 83.8
	R9 = 10.3

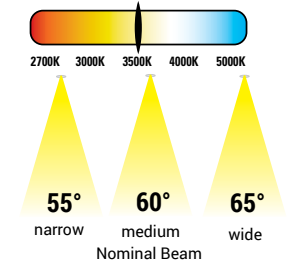


— Reference Illuminant — Test Source

90 CRI Color Metric Summary - 3500K*



TM-30-15	Rf = 91.1
	Rg = 99
CRI/CIE	Ra = 92.4
	R9 = 55.1



— Reference Illuminant — Test Source

* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 lumen		6000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)*
(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

Notes:

* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

Connected Systems

WaveLinx Lite - WTK Tilemount Sensor



- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx Lite Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details



Device Security



Manual Dimmer



Occupancy Sensor



Daylighting Control



Manually Switched ON/OFF



Tuning Control

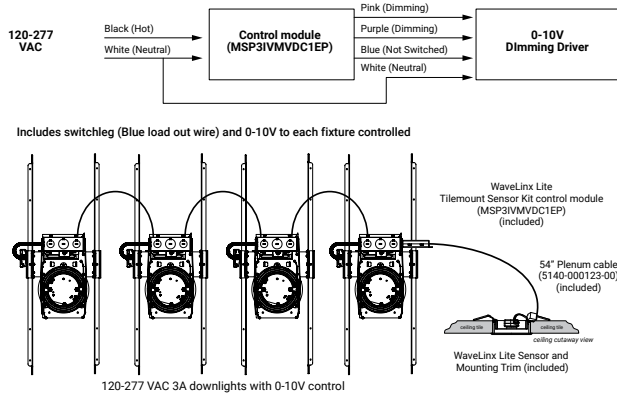


Lumen Maintenance Control

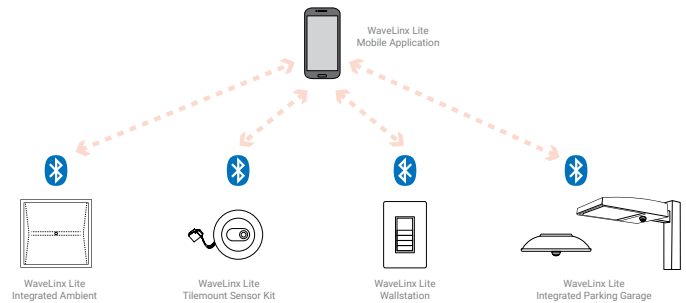


Scenes

WaveLinx Lite WTK Tilemount Wiring Diagram



WaveLinx Lite Bluetooth Enabled System

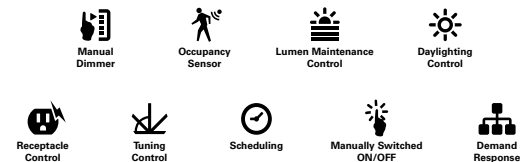


WaveLinx – WTA Tilemount Sensor

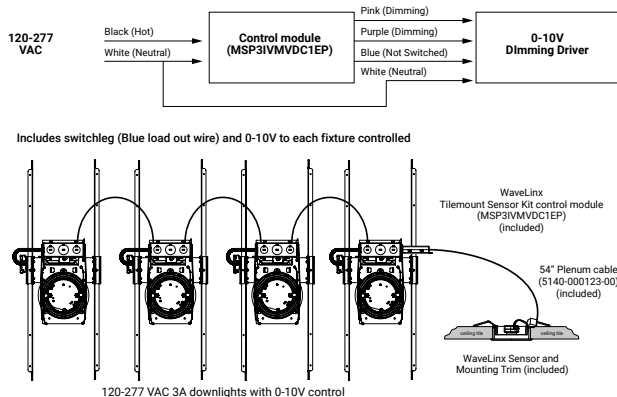


- WaveLinx functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

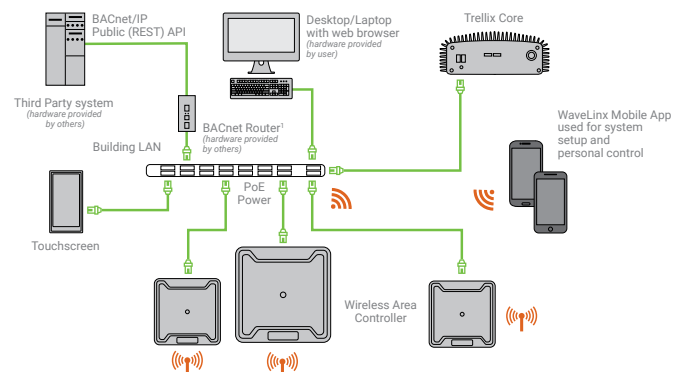
WaveLinx mobile app settings



WaveLinx WTA Tilemount Wiring Diagram

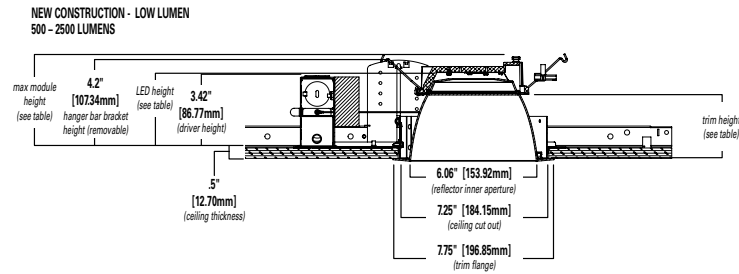


WaveLinx Trellix Building Management Integration



Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS

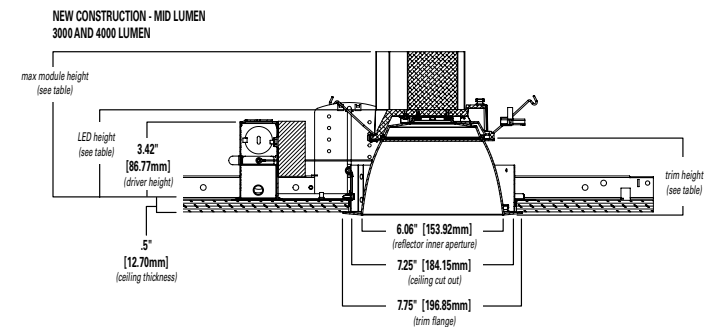


Low Lumen (500 – 2500 Lumens)*

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"

*Max. height w/removable hanger bar bracket 4.2"

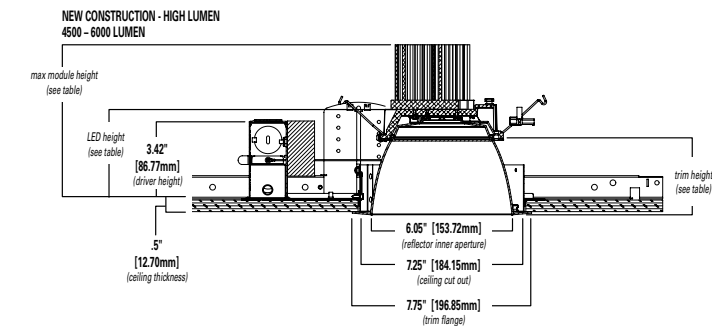
NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS



High Lumen (4500 – 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.9"	3.4"	3.8"
Medium	7.0"	3.5"	3.9"
Wide	6.8"	3.3"	3.7"
Baffle	6.8"	3.3"	3.7"

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMD6 Series

6" Round and Square Surface Mount
Downlight
SMD6R & SMD6S

Typical Applications
Residential

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Photometric Data page 5
- Product Warranty

Product Certification



Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under J48.

Product Features

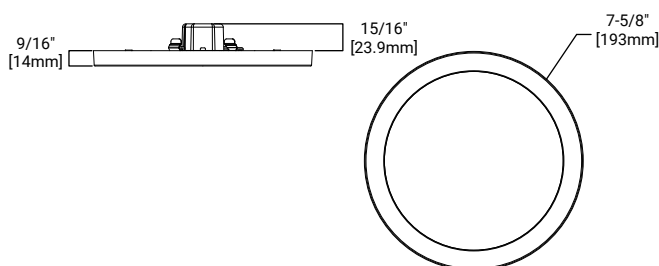


Top Product Features

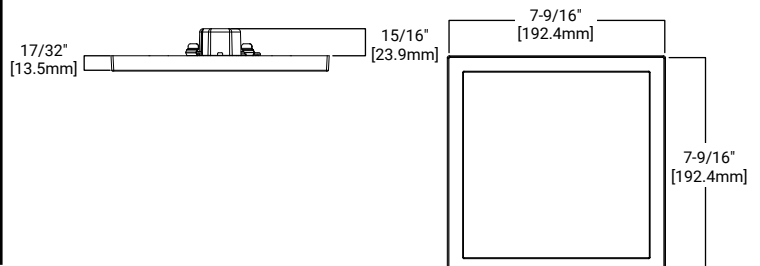
- Ultra-low profile surface luminaire with wide distribution
- Ceiling or wall mounting in compatible junction boxes
- 600 & 1200 lumen; 2700K, 3000K, 3500K, 4000K or 5000K field selectable CCT; 90 CRI
- 120V only and Universal Voltage 120V – 277V options
- Dimmable with 120V dimmers

Dimensional and Mounting Details

SMD6RXXXWH

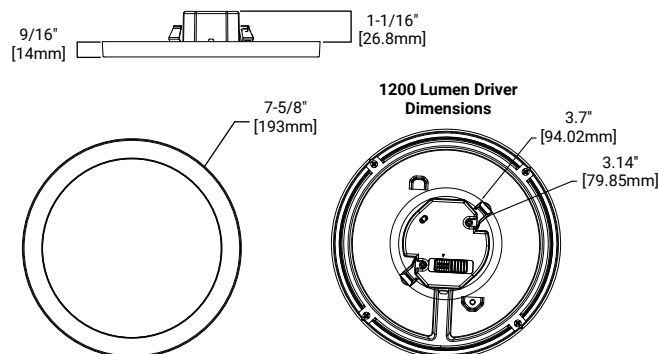
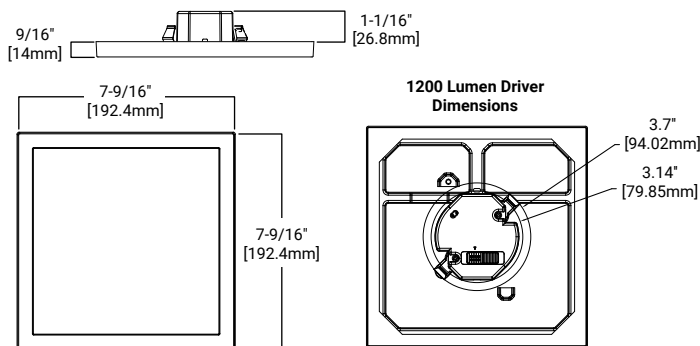


SMD6SXXXWH



additional
product diagrams

Dimensional and Mounting Details (continued)

SMD12RXXXWH
SMD12RXXXWHESMD12SXXXWH
SMD12SXXXWHE

Note: Ensure junction box (provided by others) internal dimension supports driver dimension.

Ordering Information

SAMPLE NUMBER: **SMD6R69SWH** = 6" Round Surface Mount Downlight, 600 lumen, 90CRI, Selectable CCT, White, 120V

Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.

Recessed Installation: Order HALO recessed housing and SMD6ACCKIT separately to complete installation.

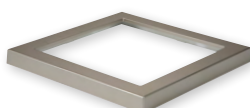
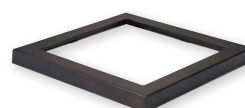
Models	Lumens	CRI/CCT	Finish	Voltage
SMD6R = 6" Round Surface Mount Downlight SMD6S = 6" Square Surface Mount Downlight	6 = 600 lumen series (120V only) 12 = 1200 lumen series ⁽¹⁾	9S = 90CRI, 2700K - 5000K Field Selectable CCT	WH = Matte White	Blank = 120V standard E = UNV Universal 120-277V ⁽²⁾
Notes	Notes	Notes	Notes	Notes
	(1) 1200 lumen series requires use of 4" square junction box or similar to support driver.			(2) UNV voltage configuration is offered only in the 1200 lumen series

Accessories

Accessories
Designer Trims SMD6RTRMSN = 6" Round SMD Satin Nickel SMD6RTRMTBZ = 6" Round SMD Tuscan Bronze SMD6RTRMWH = 6" Round SMD White (paintable) SMD6STRMSN = 6" Square SMD Satin Nickel SMD6STRMTBZ = 6" Square SMD Tuscan Bronze SMD6STRMWH = 6" Square SMD White (paintable) T24HWKIT = Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED SMD6ACCKIT = SMD6 accessory kit includes friction clips, torsion springs and a Edison screwbase adapter for recessed housing installation.
Notes

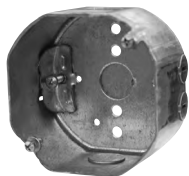
Accessories

Designer Trims

SMD6RTRMWH
round, white (paintable)SMD6RTRMSN
round, satin nickelSMD6RTRMTBZ
round, tuscan bronzeSMD6STRMWH
square, white (paintable)SMD6STRMSN
square, satin nickelSMD6STRMTBZ
square, tuscan bronze

JUNCTION BOX COMPATIBILITY

***Note:** SMD 1200 lumen 120V configuration is only compatible with junction boxes 4" x 2-1/8" deep. Square junction box is required for 1200 lumen version.



TP316*
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317*
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon light fixture/fan steel box*
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" square deep steel box*
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" square standard steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD6RAD adapter



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

Product Specifications

Housing

- Non-electrically conductive polycarbonate frame.
- High impact diffuse polystyrene lens provides shielding to the light guide with no pixilation
- Stamped aluminum housing provides thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications

Gaskets

- Closed cell gasket achieves restrictive airflow and wet location requirements without additional caulking

Optics

- Precision acrylic light guide organizes source flux into wide distribution with 1.2 – 1.4 spacing criteria useful for general area illumination

LED

- Mid power LED array provide a uniform source with high efficiency and long life
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 3 SDCM provide color accuracy and uniformity

Driver

SMD 120V

- Integral 120V 50/60Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers
- Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)
- Inline electrical quick connect and E26 adapter (provided) provides mains connections

SMD 120-277V

- Integrated 120-277V 60Hz constant current driver provides noise free operation
- SMD Universal Voltage (120-277V) configurations are recommended for use with compatible 0-10V DC
- low voltage dimmers only

Mounting/Retention

- Adjustable spider plate allows for quick installation into both junction boxes and recessed housings
- Torsion springs and friction blades included

Electrical Junction Box Mounting

- The SMD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" square, octagon, and round electrical junction boxes
Note: SMD120-277V UNV is only compatible with junction boxes that provide minimum depth of 2-1/8"
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building coded

Recessed Housing Mounting

Note: Use the SMDACCKIT which includes torsion springs and Edison base adapter. (SOLD SEPERATELY)

- May be installed in IC recessed housings in direct contact with insulation

Note: Not for use in recessed housing in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013

Designer Skins

(Sold Separately)

- SMD skins are accessory rings in both round and square. These skins attach to the SMD for a permanent finish. Refer to the SMD accessories specification sheet for details
 - Matte White (Paintable)
 - Satin Nickel
 - Tuscan Bronze

Compliance

- cULus Certified for use with Halo housings and for use with other's housings, , when used with SMDACCKIT (Sold Separately) see instruction sheet for conditions of acceptability
- Wet and Damp Location listed, airtight per ASTM-E283
- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- EMI/RFI emissions per FCC 47CFR Part 15B
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings
- Can be used for International Energy Conservation Code (IECC) and high efficiency luminaire compliance
- ENERGY STAR® listed, reference database for current listings

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy Data

SMD6R6 / SMD6S6

	Round	Square
Lumens (5000K models)	777	800
Input Power	9 W	9 W
Input Current	0.085 A	0.085 A
Efficiency	86 lm/W	85 lm/W
THDi	8	8
Input Voltage	120V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.98	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

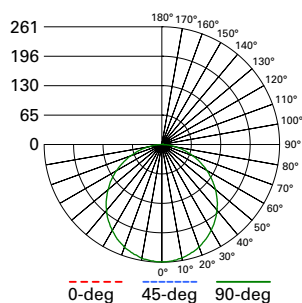
SMD6R12 / SMD6S12

	Round	Square
Lumens (5000K models)	1271	1345
Input Power	15	15
Input Current	0.129 A	0.129 A
Efficiency	85 lm/W	88 lm/W
THDi	12.6	12.6
Input Voltage	120V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.98	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

SMD6R12-E / SMD6S12-E

	Round	Square
Lumens (5000K models)	1357	1364
Input Power	14.5	14.5
Input Current	0.125 A (120V) 0.058 A (277V)	0.125 A (120V) 0.058 A (277V)
Efficiency	94 lm/W	94 lm/W
THDi	12.8	12.8
Input Voltage	120 - 277V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.99 (120V) 0.94 (277V)	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

Photometric Data

**SMD6R69SWH - 3000K.IES**

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.38

Beam Angle: 112°

Lumens: 757

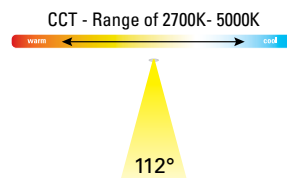
Input Watts: 8.9 W

Efficacy: 85 LPW

Test Report:

SMD6R69SWH - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	201	26.6
0-40	330	43.6
0-60	585	77.4
0-90	752	99.4



SMD6R69SWH	CCT	Watts	Lumens	LPW	CRI
600 Lumen 6" Round Selectable CCT	2700K	9.2	704	76.6	93
	3000K	9.2	716	77.8	93
	3500K	9.2	729	79.2	94
	4000K	9.2	742	80.5	94
	5000K	9.2	756	82.0	93

PRODUCT SPECIFICATIONS

Lumens 716

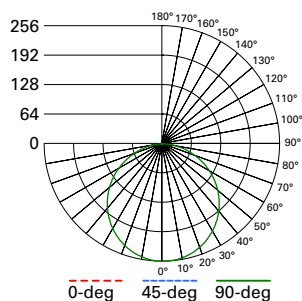
Watts 9.2

Lumens Per Watt (Efficacy) 77.8

Color Accuracy (CRI) 93

Light Color (CCT) 3000K

Correlated Color Temperature (CCT)

**SMD6S69SWH - 3000K.IES**

Spacing criterion: (0-180) 1.28
(90-270) 1.28
(Diagonal) 1.40

Beam Angle: 113°

Lumens: 752

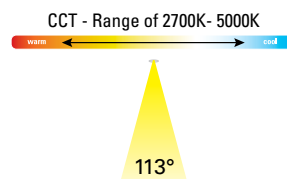
Input Watts: 9.2 W

Efficacy: 82 LPW

Test Report:

SMD6S69SWH - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	199	26.4
0-40	326	43.4
0-60	580	77.2
0-90	748	99.5



SMD6S69SWH	CCT	Watts	Lumens	LPW	CRI
600 Lumen 6" Square Selectable CCT	2700K	9.6	720	75.3	93
	3000K	9.6	735	76.7	93
	3500K	9.6	750	78.2	94
	4000K	9.6	764	79.5	94
	5000K	9.6	774	80.7	92

PRODUCT SPECIFICATIONS

Lumens 735

Watts 9.6

Lumens Per Watt (Efficacy) 76.6

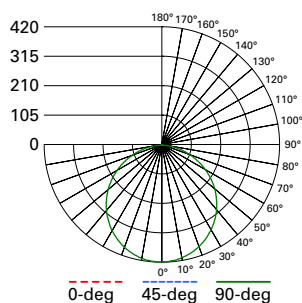
Color Accuracy (CRI) 93

Light Color (CCT) 3000K

Correlated Color Temperature (CCT)



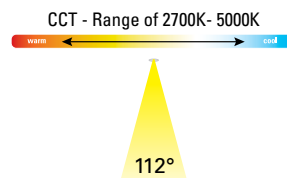
Photometric Data

**SMD6R129SWH - 3000K.IES**

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.38

Beam Angle: 112°
Lumens: 1221
Input Watts: 14.9 W
Efficacy: 82 LPW
Test Report:
SMD6R129SWH - 3000K.IES

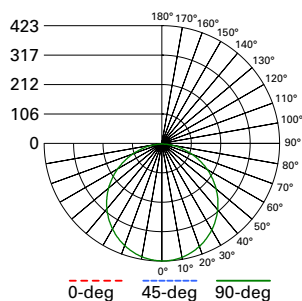
Zonal Lumen	Lumens	% Lumens
0-30	325	26.6
0-40	533	43.6
0-60	945	77.4
0-90	1215	99.5



SMD6R129SWH	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Round Selectable CCT	2700K	15.2	1135	74.7	92
	3000K	15.2	1156	76.1	93
	3500K	15.2	1178	77.5	94
	4000K	15.2	1198	78.8	95
	5000K	15.2	1226	80.7	93

PRODUCT SPECIFICATIONS

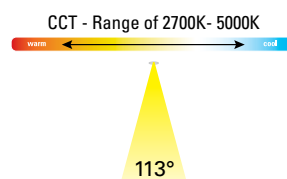
Lumens	1156
Watts	15.2
Lumens Per Watt (Efficacy)	76.1
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white soft white bright white	
2700K 3000K 4500K 6500K	

**SMD6S129SWH - 3000K.IES**

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.40

Beam Angle: 113°
Lumens: 1241
Input Watts: 14.9 W
Efficacy: 83 LPW
Test Report:
SMD6S129SWH - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	329	26.5
0-40	539	43.5
0-60	960	77.3
0-90	1237	99.6

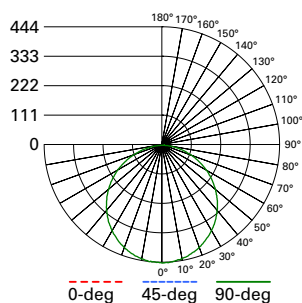


SMD6S129SWH	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT	2700K	15.5	1153	74.4	92
	3000K	15.5	1177	75.9	93
	3500K	15.5	1206	77.8	95
	4000K	15.5	1224	79.0	95
	5000K	15.4	1256	81.6	93

PRODUCT SPECIFICATIONS

Lumens	1177
Watts	15.5
Lumens Per Watt (Efficacy)	75.9
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white soft white bright white	
2700K 3000K 4500K 6500K	

Photometric Data

**SMD6R129SWHE - 3000K.IES**

Spacing criterion: (0-180) 1.24
(90-270) 1.24
(Diagonal) 1.38

Beam Angle: 112°

Lumens: 1289

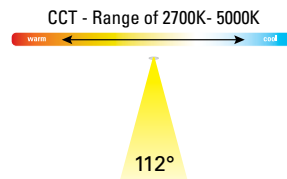
Input Watts: 14.5 W

Efficacy: 89 LPW

Test Report:

SMD6R129SWHE - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	343	26.6
0-40	562	43.6
0-60	997	77.3
0-90	1282	99.5



SMD6R129SWHE	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Round Selectable CCT 120-277V	2700K	14.7	1237	84.1	92
	3000K	14.7	1262	85.9	93
	3500K	14.7	1289	87.7	95
	4000K	14.7	1311	89.2	95
	5000K	14.7	1306	88.8	93

PRODUCT SPECIFICATIONS

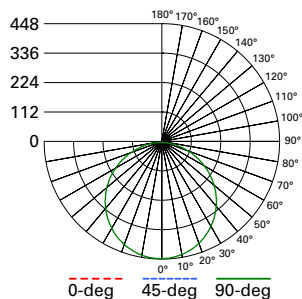
Lumens 1262

Watts 14.7

Lumens Per Watt (Efficacy) 85.9

Color Accuracy (CRI) 93

Light Color (CCT) 3000K
Correlated Color Temperature (CCT)

**SMD6S129SWHE - 3000K.IES**

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.40

Beam Angle: 114°

Lumens: 1312

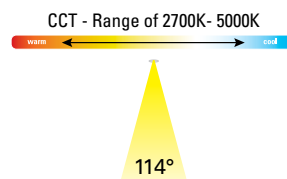
Input Watts: 14.7 W

Efficacy: 89 LPW

Test Report:

SMD6S129SWHE - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	348	26.5
0-40	570	43.5
0-60	1014	77.3
0-90	1307	99.6



SMD6S129SWHE	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT 120-277V	2700K	15.1	1225	81.1	92
	3000K	15.1	1251	82.8	93
	3500K	15.1	1277	84.6	95
	4000K	15.1	1299	86.0	95
	5000K	15.1	1327	87.9	93

PRODUCT SPECIFICATIONS

Lumens 1251

Watts 15.1

Lumens Per Watt (Efficacy) 82.8

Color Accuracy (CRI) 93

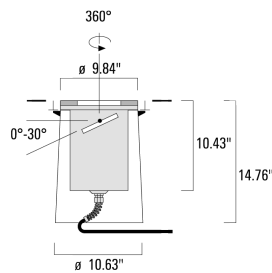
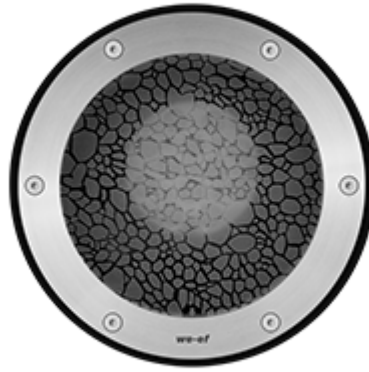
Light Color (CCT) 3000K
Correlated Color Temperature (CCT)



ETC130-GB LED ASC

Inground Luminaires

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we-ef


Description

Anti-Slip ceramic Coating. ASC Lens light loss factor = 14.25%. IP69K. Class I. IK10+. Stainless steel construction. PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens; max load 5.5 tons (11,000 lbs). Luminaire can be driven over at low speed. Cable gland with spiral cable bending protection. Factory-sealed termination chamber complete with cable gland and 3 ft of flexible PVC-free, gel-impregnated anti-wicking cable. Factory-installed circuit board with High Efficiency LEDs. 0-10V Dimming comes standard with luminaire. Gimbal mounted, 360° rotatable and 30° tiltable. 'No tool' removable gear/lens tray. Suitable for flush installation in concrete or earth. The concrete-pour installation blackout is supplied as standard with luminaire. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

ETC130-GB LED ASC

Inground Luminaires

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we-ef

Specifications

Material Specification

Body:	Luminaire body constructed of deep drawn stainless steel. Outer housing composite material.
Lens:	5/8 in thick Antislip Coating ASC tempered glass lens (Slip Resistance Class R10), max load 5 Tonnes
Colours:	 Stainless Steel
 IP69K	The Highest Ingress Protection Rating Available!
 ETL	ETL, UL-1598 equivalent, CSA-C22.2#250.0. Suitable for Wet Locations.
 Quick Ship	Quickship features a one week ship time for Steplights and two week ship time for the rest of our Core products. All applicable information must be included for orders to be processed and colors must be in one of our 4 standard finishes. A maximum order quantity of 30 pieces applies.
Gasket:	Silicone rubber gasket
Fasteners:	PCS polymer coated stainless steel
Ingress protection:	IP69K - HIGHEST PROTECTION RATING AVAILABLE
Impact protection:	IK10+
Corrosion protection:	5CE
Surge protection:	Integral 10kV Surge Protector
Mounting:	Suitable for installation in concrete or earth. Suitable for walk-over and DRIVE-OVER applications. Proper drainage and foundation support must be provided.
Listings:	ETL, UL-1598, CSA-C22.2#250.0. Suitable for Wet Locations.

Electrical Specification

Power supply:	Integral [ECG] electronic driver 120V-277V. 0-10V dimmable, to be specified with order.
Driver / Ballast:	Integral [ECG] electronic driver 120V-277V. 0-10V dimmable, to be specified with order.
Termination:	Factory sealed termination chamber
Cable:	3 feet of flexible 18/3 cable

Lifetime

Ta=25°/40° L90B10 > 90000h

Dimming

0-10V available in request. Must be factory fitted.

ETC130-GB LED ASC

Inground Luminaires

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Choices

Light Distributions	Nominal Lumen	Nominal Watt	Colour Temperatures	Colours
 symmetric, wide beam [W]	2217	18	 3000 K	 Stainless Steel
 symmetric, medium beam [M]			 4000 K	
 symmetric, very narrow beam [VN]				
 symmetric, very narrow beam, 'sharp cut-off' [VNS]				
 linear spread, medium beam [M]				
 linear spread, very narrow beam [VN]				
 linear spread, very narrow beam, 'sharp cut-off'				

ETC130-GB LED ASC

Inground Luminaires

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we-ef

Configurations

Light Distributions	Part ID	Light Source	Delivered Lumens	Rated Input Power	CRI	Weight	Link
 symmetric, very narrow beam, 'sharp cut-off' [VNS]	611-3134	LED-12/18W / 500 mA - 3000 K	1697	21	80	18.20	 
	611-3135	LED-12/18W / 500 mA - 4000 K	1697	21	80	18.20	 
 symmetric, medium beam [M]	611-3120	LED-12/18W / 500 mA - 3000 K	1650.2	21	80	18.20	 
	611-3121	LED-12/18W / 500 mA - 4000 K	1650.2	21	80	18.20	 
 symmetric, wide beam [W]	611-3140	LED-12/18W / 500 mA - 3000 K	1457.1	21	80	18.20	 
	611-3141	LED-12/18W / 500 mA - 4000 K	1457.1	21	80	18.20	 
 symmetric, very narrow beam [VN]	611-3114	LED-12/18W / 500 mA - 3000 K	1586.2	21	80	18.20	 
	611-3115	LED-12/18W / 500 mA - 4000 K	1586.2	21	80	18.20	 
 linear spread, medium beam [M]	611-3120 185-2632	LED-12/18W / 500 mA - 3000 K	1541.7	21	80	18.20	 
	611-3121 185-2632	LED-12/18W / 500 mA - 4000 K	1541.7	21	80	18.20	 
 linear spread, very narrow beam [VN]	611-3114 185-2632	LED-12/18W / 500 mA - 3000 K	1393.2	21	80	18.20	 
	611-3115 185-2632	LED-12/18W / 500 mA - 4000 K	1393.2	21	80	18.20	 
 linear spread, very narrow beam, 'sharp cut-off'	611-3134 185-2632	LED-12/18W / 500 mA - 3000 K	1502	21	80	18.20	 
	611-3135 185-2632	LED-12/18W / 500 mA - 4000 K	1502	21	80	18.20	 

Related Families / ETC100-GB ASC

Family		Dimensions	Wattage	Nominal Lumen	Links	
					Links	Download Data Sheet
ETC120-GB LED ASC		6.3	6 W	738	 	 
ETC130-GB LED ASC		9.84	18 W	2217	 	 
ETC140-GB LED ASC		11.81	24 W	3228	 	 

WE-EF LIGHTING USA LLC

Spec Support Hotline: +1 724 278 3855 | 410-D Keystone Drive | Warrendale PA 15086 U.S.A. | Tel +1 724 742 0030 | info.usa@we-ef.com | www.we-ef.com | 29-08-2022 08:57
Technical modifications and errors excepted

ETC130-GB LED ASC

Inground Luminaires

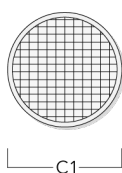
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we-ef

Optical Accessories

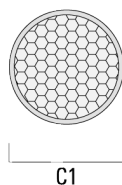
Softening Lens

■ **185-2866** IO-360-ETC130-GB-LED



Honeycomb louvre

■ **185-2870** IW-ETC130/330-GB-LED



ETC130-GB LED ASC

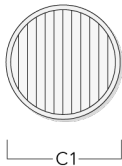
Inground Luminaires



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Linear spread lens

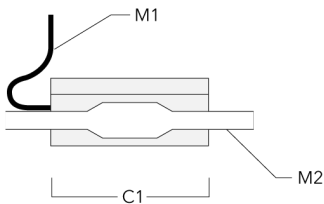
185-2632 IO-180 ETC130/330-GB LED



Electrical Accessories

Sealable junction box

	M1	M2
185-1624 Sealable junction box SJB 130	Ø 0.39	Ø 0.47 - 0.75



DATE	PROJECT	FIRM	TYPE
------	---------	------	------

RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

FEATURES :

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



FIXTURE MODEL	FIXTURE CONFIG.	POWER/ LUMEN OUTPUT*	CCT/ COLOR	CRI	BEAM ANGLE	FINISHES	ACCESSORIES	WIRING AND MOUNTING
F080	1S - Single Head	LO - Low Output MO - Medium Output HO - High Output	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber *2200K and 2500K not available in 40°, 60°, 70° and 90°	8 - 80 9 - 90* X - For RD, GR, BL, AM *90 CRI not available in 2200K, 2500K, 5000K, and 6500K	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom* *Provide RAL #	X - No Accessory H - Half Snoot F - Full Snoot Will ship as X if not specified	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2" NPT ; UL/CE Listed B* - 10' External Cable Side Exit; Surface Mount ; UL Listed C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT ; UL Listed D* - 10' External Cable Side Exit; Surface Mount ; CE Listed E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT; CE Listed *Will ship as A if not specified

EXAMPLE: F080-1S-LO-22-8-05-S-X-A

*See Photometry Chart for Lumen Data

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT	OPTIC	EFFICACY	CBCP
	4	Low Output	309	5°	77	22,017
	7.5	Medium Output	531	5°	71	37,812
	11.5	High Output	744	5°	65	52,991

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX

COLOR CONSISTENCY

LUMEN DEPRECIATION

80+, 90+

3-STEP MACADAM ELLIPSE

	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300*	>60,500* >(69,800)**	>33,200*	

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/raise for the most updated information.

DATE	PROJECT	FIRM	TYPE
ELECTRICAL	WATTAGE	LOW OUTPUT = 4 W; MEDIUM OUTPUT = 7.5 W; HIGH OUTPUT = 11.5 W	
	POWER FACTOR	>0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO)	
	THD	<0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO)	
	OPERATING VOLTAGE	MULTIVOLT: 110-277 VAC, 50/60 Hz	
	DRIVER	INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS	
	STARTUP TEMPERATURE	-40 °F TO 122 °F (-40 °C TO 50 °C)	
	OPERATING TEMPERATURE	-40 °F TO 122 °F (-40 °C TO 50 °C)	
	STORAGE TEMPERATURE	-40 °F TO 176 °F (-40 °C TO 80 °C)	
CONTROL	DIMMING	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE	
PHYSICAL	DIMENSIONS	W 2.49" x H 8.13" x L 6.97" ; (63.33 mm x 206.45 mm x 177.05 mm)	
	HOUSING/LENS	EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS	
	WEIGHT	1.25 LBS / 0.56 KG	
	ENVIRONMENT	OUTDOOR • UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS	
	MOUNTING OPTIONS	A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL/ CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED	
	WIRING	LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m)	
	TOOLS	2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM	
	WIND LOAD (EPA)	EFFECTIVE PROJECTED AREA 0.14 ft²	
	CORROSION RESISTANT	RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO MARINE GRADE CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.	
FIXTURE RATING & CERTIFICATIONS	CE, UL CERTIFIED RoHS COMPLIANT, IK10	   IK10	

LIMITED WARRANTY 5 YEARS

0-10V CONTROL OPTIONS

100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated LDCM-PL-120-277-010V-GR

All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES**Snoots**

Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-H-(K,Z,S,W,C)

Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-F-(K,Z,S,W,C)

Interchangeable Lens

If inner optic = 5°,

Desired angleorder the following spread lens

5 Degree F080-LENS-05

10 Degree F080-LENS-10

15 Degree F080-LENS-15

20 Degree F080-LENS-20

40 Degree F080-LENS-40

60 Degree F080-LENS-60

80 Degree F080-LENS-80

15x60 or 60x15 Degree F080-LENS-E1E3

30x60 or 60x30 F080-LENS-E2E4

Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 80, 15x60 or 60x15, 30x60 or 60x30) F080-LENS-FULLSET

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/raise for the most updated information.**ECOSENSE®**

ECOSENSE LIGHTING INC.
837 NORTH SPRING STREET
SUITE 103
LOS ANGELES, CA 90012

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RISE™, **SLIM COVE™**, **FREEDOM TO CREATE™**, **MACRO™**, **FLIP-TO-FLAT™** ARE TRADEMARKS OF ECOSENSE LIGHTING INC.

DATE	PROJECT	FIRM	TYPE
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If inner optic = 40°,

Desired angle	Order the following spread lens
5 Degree	NOT SUPPORTED
10 Degree	NOT SUPPORTED
15 Degree	NOT SUPPORTED
20 Degree	NOT SUPPORTED
40 Degree	F080-LENS-10
60 Degree	F080-LENS-40
70 Degree	F080-LENS-60
90 Degree	F080-LENS-80
15x60 or 60x15 Degree	NOT SUPPORTED
30x60 or 60x30 Degree	NOT SUPPORTED
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30)	F080-LENS-FULLSET

Honeycomb Louver

Honeycomb Louver F080.....	F080-LV-HComb
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Canopy Plate (Not for use with wire Option B - External Cable Side Exit)

RISE Canopy Plate (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	RISE-CANOPY-04-(K,Z,S,W,C)
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Color Filters

Red	F080-FILTER-RED
Blue	F080-FILTER-BLUE
Green	F080-FILTER-GREEN
Amber	F080-FILTER-AMBER

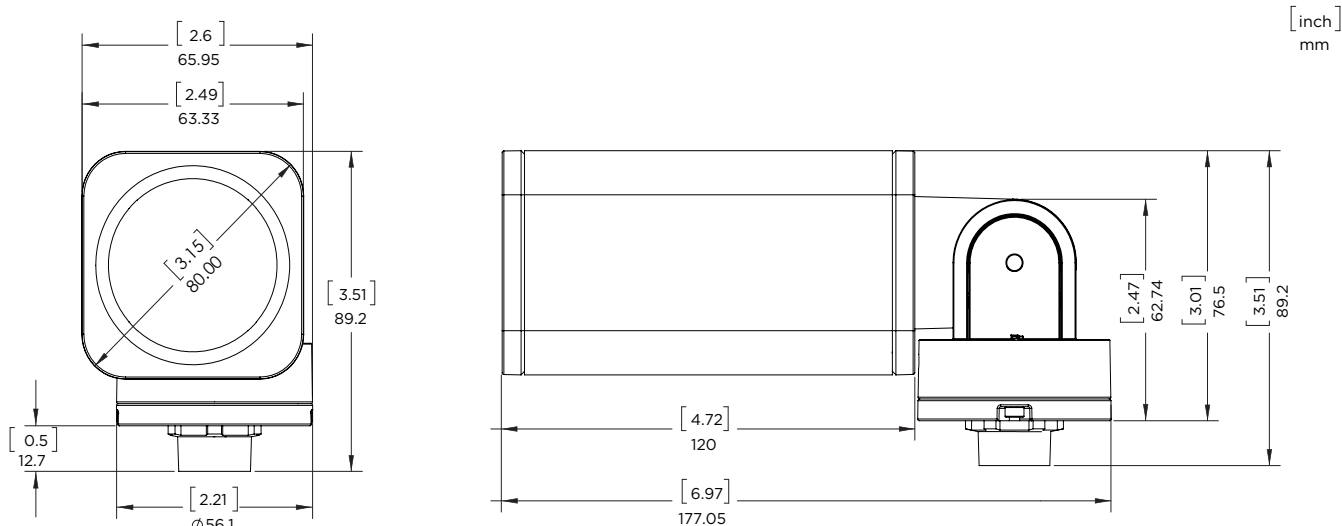
F080 Wall Mount Arm (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-06-(K,Z,S,W,C)
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-12-(K,Z,S,W,C)
Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-18-(K,Z,S,W,C)
Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-24-(K,Z,S,W,C)

Ground Stake (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Landscape Stake, 12 in (for use with F080 Single Head only, not for use with multi-fixture units)	F080-LS-1S-STK-12
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DIMENSIONS



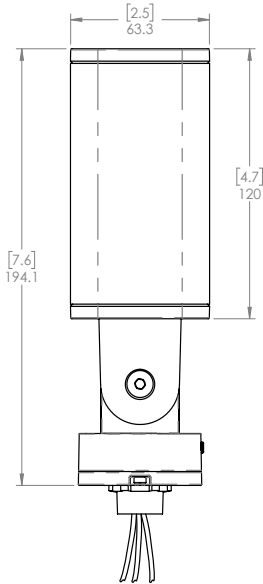
NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/raise for the most updated information.

DATE	PROJECT	FIRM	TYPE
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WIRING GUIDE

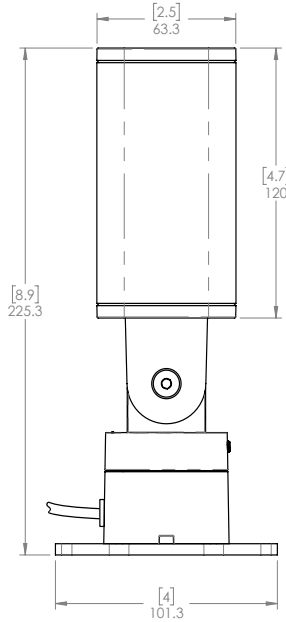
RISE is an interior and exterior rated (IP66) fixture that is available in three different wiring options:

Flying Leads - Internal Cable (UL Listed or CE Listed)



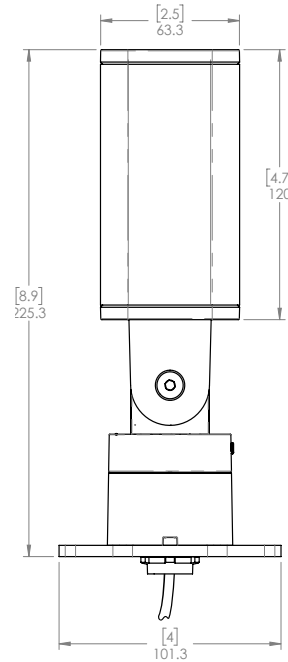
- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

External Cable Side Exit (UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

External Cable Bottom Exit (UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2" NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/rise for the most updated information.

Project		Catalog #		Type	
Prepared by		Notes		Date	



Metalux

Vaportite LED

2' and 4' Industrial LED
Vaportite Industrial

Typical Applications

Parking Garage • Cold Storage • Canopy • Warehouse • Food Processing •
Manufacturing • Complex Environments

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Product Warranty

Product Certification



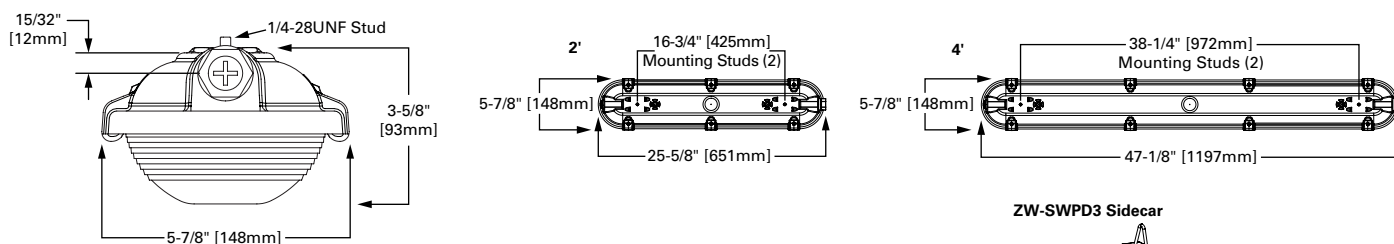
Product Features



Top Product Features

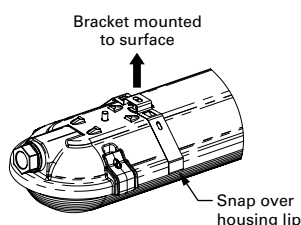
- Compact and durable fiberglass reinforced polyester housing
- Precision optics in general, wide, or parking garage distribution
- High Impact Polycarbonate optical lens
- Available in 2ft and 4ft, with lumen packages up to 8,000 lumens
- Wet Location and IP67 Listed
- Options to meet Buy American and other domestic preference requirements

Dimensional, Mounting Details

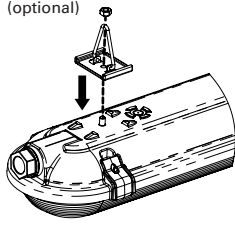


Installation Data

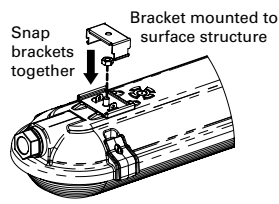
STANDARD



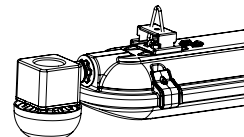
V-HANGER (optional)



SURFACE BRACKET (optional)



ZW-SWPD3 Sidecar



Order Information

SAMPLE ORDER NUMBER: **4VT3-LD5-6-G-UNV-L840-CD1-U**

Domestic Preferences	Series	Lamp Type	LED Lumens Output		Distribution	Voltage	Remote Emergency Enclosure
Domestic Preferences ⁽¹⁾	Series ⁽²⁾	Lamp Type	LED Lumens Output		Distribution ^{(3), (4)}	Voltage	Remote Emergency Enclosure
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	2VT3=2' Vaportite 4VT3=4' Vaportite	LD5=LED 5.0	2 ft. 2=2000 Lumens 3=3000 Lumens 4=4000 Lumens	4 ft. 4=4000 Lumens 5=5000 Lumens 6=6000 Lumens 8=8000 Lumens	G=General Distribution W=Wide Distribution P=Parking Garage Distribution WPC=Wide Distribution, Polycarbonate PPC=Parking Distribution, Polycarbonate	120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt UNV=Universal Voltage 120-277 Volt UNC=Universal Voltage 347-480 Volt	EL10W=10-watt, 120-277V emergency battery pack installed ^{(5), (6), (9)} VT-REM-EL10W=Remote mounted 10-watt, 120-277V emergency battery pack ^{(5), (10)}
Notes (1) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes (2) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.				Notes (3) General distribution provided with smooth frosted lens, Wide distribution provided with frosted prismatic lens, and Parking Garage distribution provided with clear prismatic lens. (4) IP69 only available in Wide or Parking Garage distributions.		Notes (5) EL and REM-EL options not available with UNC, 347V and 480V configurations. (6) EL10W available in 4ft 4000 and 6000 lumen packages only. (7) IP ratings require fixtures be mounted horizontally. (8) Specify voltage when ordering sensor option. (9) EL10W option rated for max. 35°C ambient. (10) VT-REM-EL10W option rated for max. 45°C ambient.

Lamps	Driver Type	Options	Packaging	Accessories
Lamps	Driver Type	Options	Packaging	Accessories (order separately) ⁽¹³⁾
L835=3500K, LED L840=4000K, LED L850=5000K, LED	CD1=1 Dimming Driver 5LTD1=5th Light DALI	SSL=Stainless Steel Latches TP=Standard Latch with Tamper-proof Screws SSLTP=Stainless Steel Latches with Tamper-proof Screws MSWL20=Wet Listed Motion Sensor 360° ZW-SWPD3=WaveLinX Wireless Sensor, Sidecar mount, with 1200 sq ft. coverage ⁽¹²⁾ WLS4=WaveLinX Lite Wireless Integrated Sensor, 15'-40' Mounting Height ^{(11), (12)}	U=Unit Pack	VT3-SS-VBK=Stainless Steel V-Bracket (2 per kit) VT3-SS-SBK=Stainless Steel Surface Bracket (2 per kit)
		Notes (11) Not compatible with EL10W. Not available with 347V, 480V, or UNC. Not available with 5LTD option. (12) WaveLinX Lite devices are not currently compatible with the WaveLinX Pro Wireless Area Controller.		Notes (13) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Product Specifications

Construction

- Rugged and durable construction
- Fiberglass housing is reinforced polyester and self-extinguishing (ASTM-D635-74) plastic
- Full metal fixture liner
- Watertight housing
- 1/2" conduit entry at each end of housing (standard) for continuous feed
- Polyurethane gasketing provides a continuous seamless seal for the diffuser lens
- Four sturdy cam latches clamp diffuser tightly for a positive seal between housing, gasketing and diffuser
- Stainless steel latches option
- Surface or chain mounting

Electrical

- Long-Life LED system coupled with electrical driver for optimal performance
- LED's available in 3500K, 4000K and 5000K with a CRI ≥ 80
- Projected life is 60,000 hours at 91% lumen output
- Electronic drivers are available for 120-277V applications
- 0-10V dimming control (standard)
- Operating temperature of -40°C to 55°C; Ideal for cold storage environments

Lens

- Thermoformed low profile, high impact 50% DR High acrylic lens
- Smooth frosted lens for general distribution
- Frosted prismatic lens for wide distribution
- Clear prismatic lens for parking garage distribution

Warranty

- Five-year limited warranty

Compliance

- UL/cUL listed for Wet location
- RoHS compliant
- LED modules comply with IESNA LM-79 and LM-80 standards
- NEMA 4X, IP65, IP66 and IP67 rated (see installation instructions for requirements)
- IP69 rated with wide or parking garage distributions
- NSF International certified for NSF/ANSI Standard 2 – Food Equipment
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium (refer to [www.designlights.org](#) for details)

WaveLinX Lite devices are not currently compatible with the WaveLinX Pro Wireless Area Controller

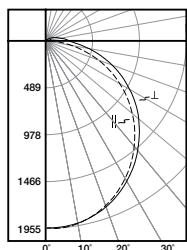
Control Systems

- WaveLinX Wireless
- WaveLinX Wired
- WaveLinX Lite
- DLVP
- VividTune

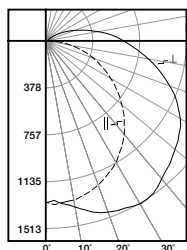


Connected Systems
[CLICK HERE](#)

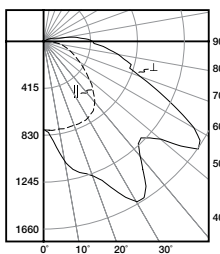
Photometric Data

[View IES files](#)


4VT3-LD5-6-G-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.24 x mounting height,
 (⊥) 1.26 x mounting height
 Lumens: 6033
 Input Watts: 51.1W
 Efficacy: 118.1 lm/W
 Test Report:
 4VT3-LD5-6-G-UNV-L840-CD1-U.IES



4VT3-LD5-6-W-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.27 x mounting height,
 (⊥) 1.67 x mounting height
 Lumens: 6655
 Input Watts: 49.3W
 Efficacy: 135 lm/W
 Test Report:
 4VT3-LD5-6-W-UNV-L840-CD1-U.IES



4VT3-LD5-6-P-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (II) 1.45 x mounting height,
 (⊥) 2.17 x mounting height
 Lumens: 6050
 Input Watts: 49.3W
 Efficacy: 122.7 lm/W
 Test Report:
 4VT3-LD5-6-P-UNV-L840-CD1-U.IES

Energy and Performance Data by Catalog Number

Catalog Number	Description	Delivered Lumens	Watts	Efficacy (lm/W)
General				
2VT3-LD5-2-G-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, General Dist, 120-277V, 5000K, Dim	2203	16	138
2VT3-LD5-3-G-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, General Dist, 120-277V, 5000K, Dim	3334	24	139
2VT3-LD5-4-G-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, General Dist, 120-277V, 5000K, Dim	4366	32	136
4VT3-LD5-4-G-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, General Dist, 120-277V, 5000K, Dim	4428	32	138
4VT3-LD5-5-G-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, General Dist, 120-277V, 5000K, Dim	5405	44	124
4VT3-LD5-6-G-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, General Dist, 120-277V, 5000K, Dim	6490	51	127
4VT3-LD5-8-G-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, General Dist, 120-277V, 5000K, Dim	8694	67	130
Wide				
2VT3-LD5-2-W-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, Wide Dist, 120-277V, 5000K, Dim	2445	17	144
2VT3-LD5-3-W-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, Wide Dist, 120-277V, 5000K, Dim	3547	25	142
2VT3-LD5-4-W-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, Wide Dist, 120-277V, 5000K, Dim	4700	34	138
4VT3-LD5-4-W-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, Wide Dist, 120-277V, 5000K, Dim	4767	31	154
4VT3-LD5-5-W-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, Wide Dist, 120-277V, 5000K, Dim	5818	44	133
4VT3-LD5-6-W-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, Wide Dist, 120-277V, 5000K, Dim	7159	49	146
4VT3-LD5-8-W-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, Wide Dist, 120-277V, 5000K, Dim	9552	70	136
Parking				
2VT3-LD5-2-P-UNV-L850-CD1-U	2ft Vaportight, 2K Lumen, Parking Garage, 120-277V, 5000K, Dim	2228	17	131
2VT3-LD5-3-P-UNV-L850-CD1-U	2ft Vaportight, 3K Lumen, Parking Garage, 120-277V, 5000K, Dim	3231	25	129
2VT3-LD5-4-P-UNV-L850-CD1-U	2ft Vaportight, 4K Lumen, Parking Garage, 120-277V, 5000K, Dim	4271	34	126
4VT3-LD5-4-P-UNV-L850-CD1-U	4ft Vaportight, 4K Lumen, Parking Garage, 120-277V, 5000K, Dim	4338	31	140
4VT3-LD5-5-P-UNV-L850-CD1-U	4ft Vaportight, 5K Lumen, Parking Garage, 120-277V, 5000K, Dim	5294	44	121
4VT3-LD5-6-P-UNV-L850-CD1-U	4ft Vaportight, 6K Lumen, Parking Garage, 120-277V, 5000K, Dim	6509	49	133
4VT3-LD5-8-P-UNV-L850-CD1-U	4ft Vaportight, 8K Lumen, Parking Garage, 120-277V, 5000K, Dim	8671	69	126

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 91%	> 247,000

Input Watts:

4VT3LD5-4 (4,000 lumens)=31W
4VT3-LD5-5 (5,000 lumens)=44W
4VT3-LD5-6 (6,000 lumens)=49W
4VT3-LD5-8 (8,000 lumens)=69W

Ambient Ratings

2ft. Lumen Package	Ambient Rating
2VT3-LD5-2	55°C
2VT3-LD5-3	50°C
2VT3-LD5-4	50°C

Shipping Data

Catalog No.	Wt.
4VT3-LD5	12 lbs.

4ft. Lumen Package	Ambient Rating
4VT3-LD5-4	55°C
4VT3-LD5-5	50°C
4VT3-LD5-6	50°C
4VT3-LD5-8	45°C

DESCRIPTION

Lanterra 9004-W1 (Up or Down) and 9004-W2 (Up and Down) are 4.25" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch j-box. The luminaire also comes with various field replaceable optics and premium color tuning option. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

SPECIFICATION FEATURES

Material

Housing, hood and mounting stem are precision-machined from corrosion resistant billet stock 6061-T6 aluminum.

Finish

Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS complaint chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Hood

Hood is removable and accepts up to two internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in the straight up position. The flush lens design reduces fixture length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

DIMENSIONS

Gasket

Housing and hood are sealed with a high temperature silicone O-ring gasket to prevent water intrusion.

Lens

Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and breakage due to thermal shock.

Hardware

Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical

Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (Trailing Edge), ELV (Forward phase) and 0-10V dimming to deliver optical performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LED's are available in 2700K, 3000K, 3500K at 90CRI and 97CRI, 4000K at 80CRI and 97CRI, 5000K at 80CRI and are

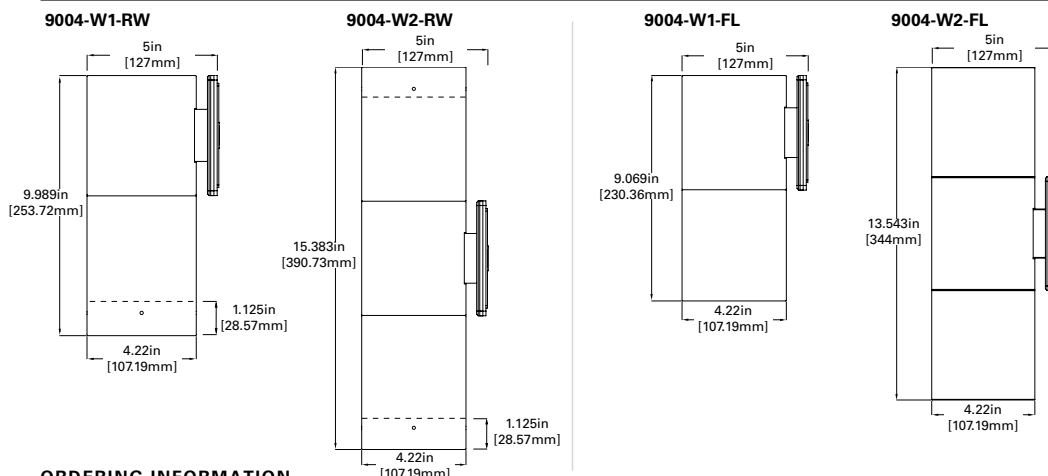
industry leading high output with 87% lumen maintenance at 60,000hrs.

Compliance

Components are UL recognized and luminaires are cULus listed for 50°C ambient environments unless noted otherwise, wet location listed, and ROHS compliant. IP66 Rated. Options to meet Buy American Act requirements

Warranty

Lumiere warrants the Lanterra series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty.



ORDERING INFORMATION

DOMESTIC PREFERENCES ⁹	SERIES	DIRECTION	HOOD	LED CCT & CRI	FIELD REPLACE- ABLE OPTIC 1	FIELD RE- PLACEABLE OPTIC 2 ²	FINISH	LIGHT LEVEL	VOLTAGE	MOUNTING	OPTIONS
[Blank]=Standard BAA=Buy American Act	9004	W1 Up or Down W2 ⁵ Up and Down	RW Standard- Recessed Lens with weep holes - Outdoor RI Recessed Lens with no weep holes - Indoor FL Flush lens hood	Standard CRI LED2790 - 2700K, 90 CRI LED 3090 - 3000K, 90 CRI LED 3590 - 3500K, 90 CRI LED 4080 - 4000K, 80 CRI LED 5080 - 5000K, 80 CRI Premium CRI LED 2797 - 2700K, 97 CRI LED 3097 - 3000K, 97 CRI LED 3597 - 3500K, 97 CRI LED 4097 - 4000K, 97 CRI	S Spot M Medium F Flood W Wide Flood	S Spot M Medium F Flood W Wide Flood	Standard Paint Finish BK Black BZ Bronze CS City WT Silver White	L1 Light Level 1 (10W) L2 Light Level 2 (20W) L3 Light Level 3 (30W) LC1 Light Level Color 1 (12W) Light Level Color 2 (20W)	UNV 120- 277V	Surface Mount - Wall, Ceiling, Ground RSM Round Surface Mount- mounts directly to junction box Thermal Limitations (unless otherwise noted 50C) 9004-W1-xxx-L3-xxx-RSM (45C) 9004-W2-xxx-L3-xxx-RSM (35C) 9004-W2-xxx-LC2-xxx-RSM (40C) Remote Driver Housing WRR ⁸ Remote Driver Housing - Round Wall Plate WRS ⁸ Remote Driver Housing - Square Wall Plate Thermal Limitations (unless otherwise noted 50C) 9004-W1-xxx-L3-xxx-WRx (45C) 9004-W2-xxx-L3-xxx-WRx (35C) 9004-W2-xxx-LC2-xxx-WRx (40C) Integral Driver Mount WIS ^{3,4} Wall Integral Driver Plate Thermal Limitations (unless otherwise noted 45C) 9004-(W1,W2)-xx-L1-xx-WIS (50C)	SVPD2 ⁵ Stand- alone integral sensor

Notes: 1. Order LC remote separately

2. Only available for double head option (W2)

3. 9004-W1 not available in LC2, L3

4. 9004-W2 not available in L2, L3, LC1 and LC2

5. Only available for Single head, Up or down (W1) with RSM only

6. W2 doubles input wattage listed

7. Only available for LEDCR

8. Remote Driver distance up to 60', For L3 (30W) remote distance up to 15'

9. 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.

10. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

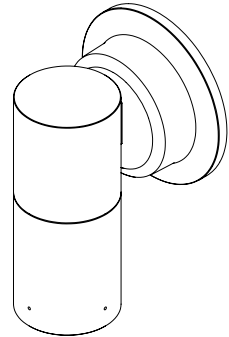
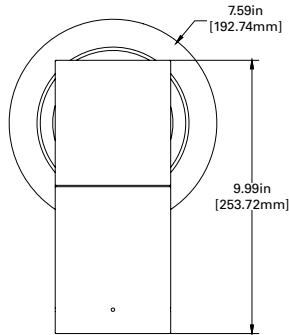
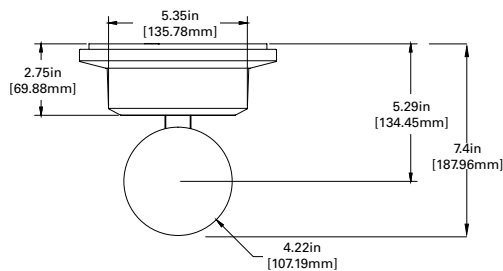
ACCESSORIES - ORDER SEPARATELY

ACCESSORIES ¹⁰			OPTICS	
LCTL1RZRT452L-PK	Light Comissioning Tool (LCT)	Filters	Lens	Louver
ISHH01LUM	Programming Remote for sensor	F71-4 Peach Dichroic	LSL-4 Linear Spread Lens	LVR-4 45° Hex Cell Louver
ISHH02LUM	Personal Control Remote for sensor	F72-4 Amber Dichroic	DIF-4 Diffused Lens	
		F73-4 Green Dichroic	OSL-4 Overall Spread Lens	
		F74-4 Medium Blue		LLR-S-3-4 15° Spot
		F75-4 Yellow Dichroic		LLR-M-3-4 25° Medium
		F76-4 Red Dichroic		LLR-F-3-4 36° Flood
		F77-4 Dark Blue Dichroic		LLR-W-3-4 60° Wide Flood
		F78-4 Light Blue Dichroic		LLR-K-3-4 Spot, Medium, Flood, Wide Flood Optic Kit
		F79-4 Neutral Density Dichroic		LLR-S-LC-3-4 20° Spot - Color tuning optic
		F80-4 Magenta Dichroic		LLR-M-LC-3-4 32° Medium - Color tuning optic
		F22-4 Red Color		LLR-F-LC-3-4 42° Flood - Color tuning optic
		F33-4 Blue Color		LLR-W-LC-3-4 56° Wide Flood - color tuning optic
		F44-4 Green Color		LR-K-LC-3-4 Spot, Medium, Flood, Wide Flood Color tuning optic Kit
		F55-4 Yellow Color		
		F66-4 Mercury Color		

MOUNTINGS

ROUND SURFACE MOUNT (RSM)

RSM-W1 (Up or down)



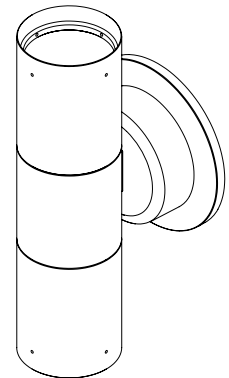
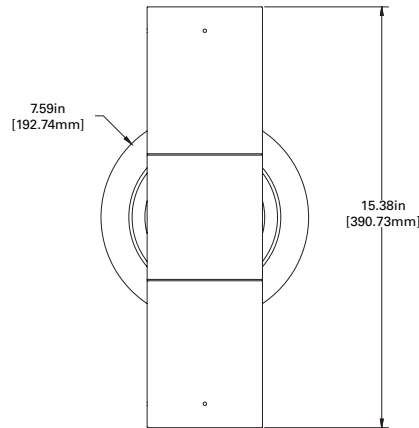
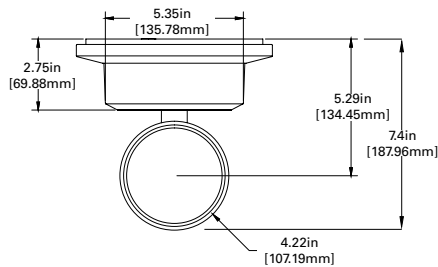
TOP VIEW

FRONT VIEW

ISO VIEW

ROUND SURFACE MOUNT (RSM)

RSM-W2 (Up and down)



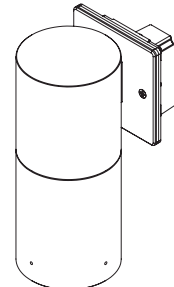
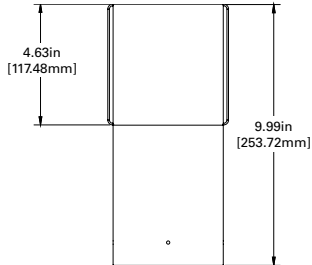
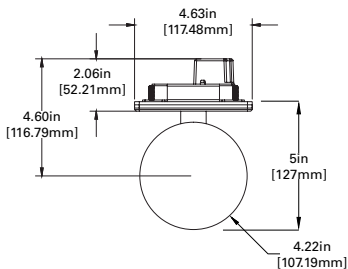
TOP VIEW

FRONT VIEW

ISO VIEW

WALL INTEGRAL DRIVER PLATE (WIS)

WIS-W1 (Up or down)



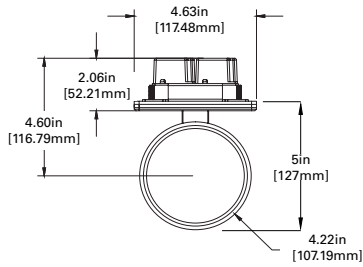
TOP VIEW

FRONT VIEW

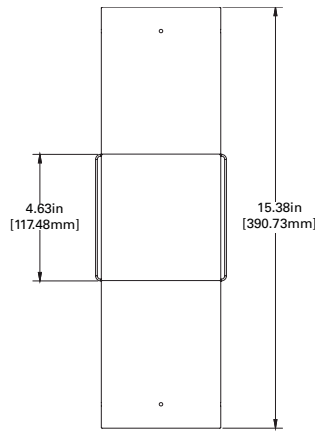
ISO VIEW

WALL INTEGRAL DRIVER PLATE (WIS)

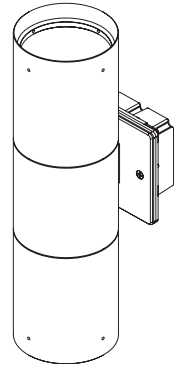
WIS-W2 (Up and down)



TOP VIEW



FRONT VIEW

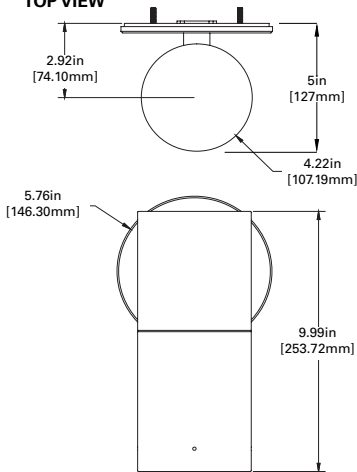


ISO VIEW

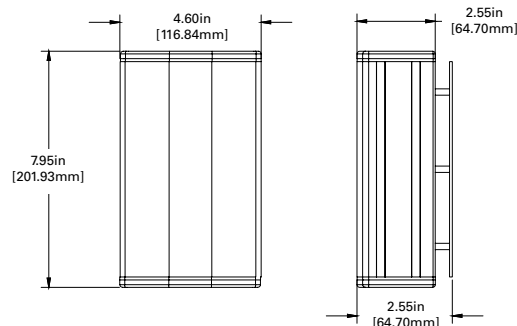
REMOTE DRIVER HOUSING ROUND WALL (WRR)

WRR-W1 (Up or down), as shown
WRS-W1 (Square option also available)

TOP VIEW

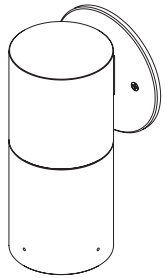


FRONT VIEW



Remote Driver distance up to 60',
 For L3 remote distance up to 15'

REMOTE BOX

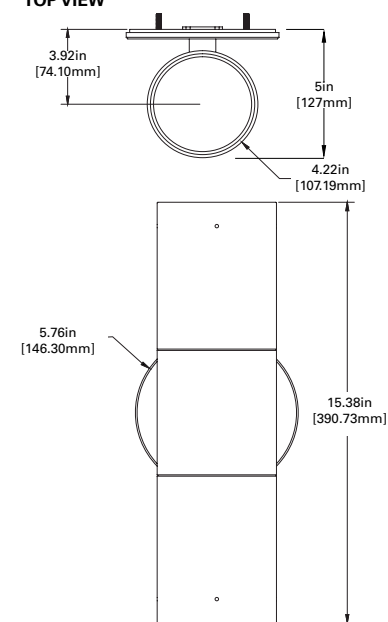


ISO VIEW

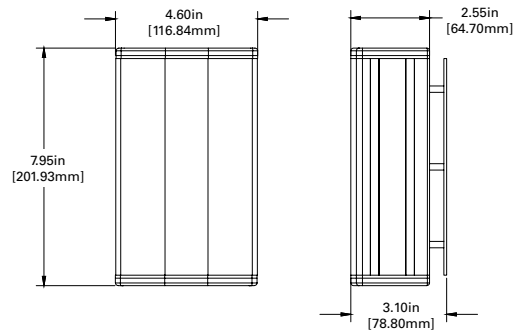
REMOTE DRIVER HOUSING ROUND WALL (WRR)

WRR-W2 (Up and down)
WRS-W2 (Square option also available)

TOP VIEW

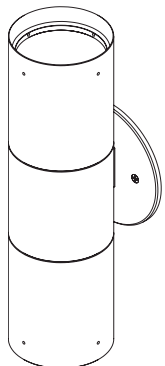


FRONT VIEW



Remote Driver distance up to 60',
 For L3 remote distance up to 15'

REMOTE BOX

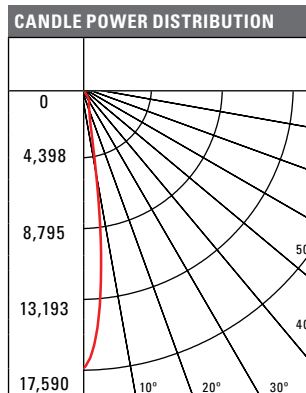
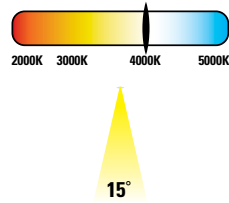


ISO VIEW

PHOTOMETRICS

Test Number	P29496
Lumcat	9004-[W1]-X-FL-LED4080-S-BK-L3-UNV
Lumens	2801 Lm
Watts	28.6 W
LPW	97.9 Lm/W
CCT	4000K
SC (0/90/45)	0.27 / 0.27 / 0.27
Beam Angle	15.9°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

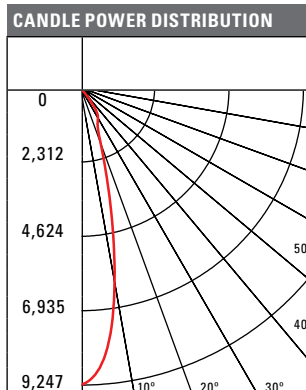
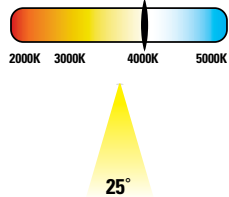


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	4397.5	0.4	0.4
4'	1099.4	1	1
6'	488.6	1.6	1.6
8'	274.8	2	2
10'	175.9	2.6	2.6
15'	78.2	4	4
20'	44	5.4	5.4
30'	19.5	8.2	8.2
40'	11	10.8	10.8

CANDELA TABLE	
Angle	0-deg
0	17590
5	13640
10	5616
15	2329
20	1555
30	1057
40	161
50	11
60	4
70	1
80	0
90	0

Test Number	29497
Lumcat	9004-[W1]-X-FL-LED4080-M-BK-L3-UNV
Lumens	2826 Lm
Watts	28.6 W
LPW	98.8 Lm/W
CCT	4000K
SC (0/90/45)	0.43 / 0.43 / 0.44
Beam Angle	25.5°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

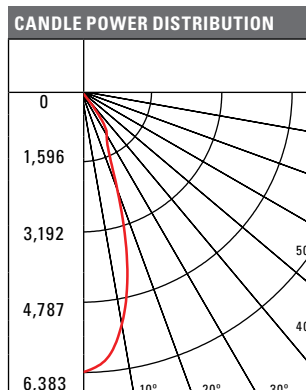
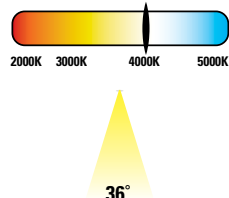


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	2311.8	0.8	0.8
4'	577.9	1.6	1.6
6'	256.9	2.4	2.4
8'	144.5	3.4	3.4
10'	92.5	4.2	4.2
15'	41.1	6.4	6.4
20'	23.1	8.6	8.6
30'	10.3	12.8	12.8
40'	5.8	17.2	17.2

CANDELA TABLE	
Angle	0-deg
0	9247
5	8453
10	6140
15	3506
20	1860
30	1098
40	170
50	13
60	4
70	1
80	0
90	0

Test Number	P29498
Lumcat	9004-[W1]-X-FL-LED4080-F-BK-L3-UNV
Lumens	2871 Lm
Watts	28.5 W
LPW	100.7 Lm/W
CCT	4000K
SC (0/90/45)	0.58 / 0.58 / 0.56
Beam Angle	35.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4

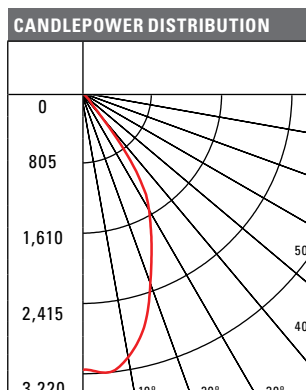
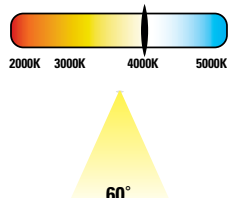


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	1595.8	1	1
4'	398.9	2.2	2.2
6'	177.3	3.4	3.4
8'	99.7	4.6	4.6
10'	63.8	5.8	5.8
15'	28.4	8.6	8.6
20'	16	11.6	11.6
30'	7.1	17.4	17.4
40'	4	23.2	23.2

CANDELA TABLE	
Angle	0-deg
0	6383
5	6141
10	5345
15	4027
20	2423
30	1153
40	178
50	6
60	4
70	1
80	0
90	0

Test Number	P29499
Lumcat	9004-[W1]-X-FL-LED4080-W-BK-L3-UNV
Lumens	2790 Lm
Watts	28.5 W
LPW	97.9 Lm/W
CCT	4000K
SC (0/90/45)	0.86 / 0.86 / 0.91
Beam Angle	58.5°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 82.5 Rg = 94.3
CRI/CIE	Ra = 83.1 R9 = 11.4



CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	796.9	1.6	1.6
4'	199.2	3.4	3.4
6'	88.5	5	5
8'	49.8	6.8	6.8
10'	31.9	8.4	8.4
15'	14.2	12.8	12.8
20'	8	17	17
30'	3.5	25.6	25.6
40'	2	34.2	34.2

CANDELA TABLE	
Angle	0-deg
0	3173
5	3220
10	3082
15	2784
20	2321
30	1560
40	366
50	95
60	25
70	3
80	0
90	0

CCT/CRI	LED2790	LED3090	LED3590	LED4080	LED5080	LED2797	LED3097	LED3597	LED4097
FC Multiplier	0.754	0.798	0.808	1.000	1.039	0.699	0.706	0.801	0.793

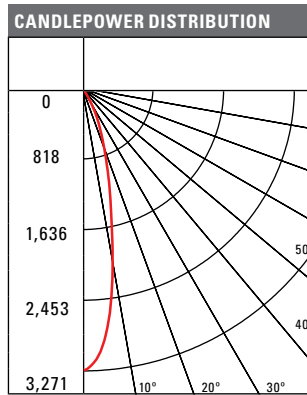
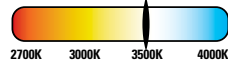
Light Level	L1	L2	L3
FC Multiplier	0.418	0.772	1.000

Note: Photometric tables show lumen output for W1 only. For W2 (Up and Down) option, uplight and downlight both match lumen output as W1.

PHOTOMETRICS (PREMIUM COLOR TUNING)

Test Number	P29571
Lumcat	9004-[W1]-X-FL-[LEDCB, LEDCR]-S-BK-LC-UNV
Lumens	853 Lm
Watts	24 W
LPW	35.5 Lm/W
CCT	3500K
SC (0/90/45)	0.41 / 0.41 / 0.45
Beam Angle	24.1°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

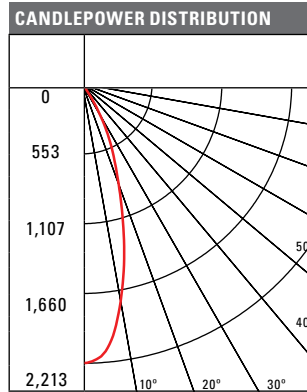
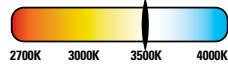


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	817.8	0.8	0.8
4'	204.4	1.6	1.6
6'	90.9	2.4	2.4
8'	51.1	3.2	3.2
10'	32.7	4	4
15'	14.5	6	6
20'	8.2	8	8
30'	3.6	12	12
40'	2	16.2	16.2

CANDELA TABLE	
Angle	0-deg
0	3271
5	2929
10	2021
15	1231
20	747
30	227
40	5
50	1
60	0
70	0
80	0
90	0

Test Number	P29572
Lumcat	9004-[W1]-X-FL-[LEDCB, LEDCR]-M-BK-LC-UNV
Lumens	853 Lm
Watts	24 W
LPW	35.5 Lm/W
CCT	3500K
SC (0/90/45)	0.55 / 0.55 / 0.58
Beam Angle	33.7°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

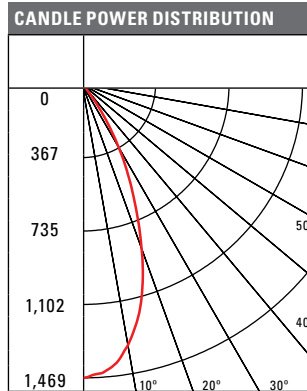
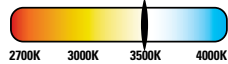


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	553.2	1	1
4'	138.3	2.2	2.2
6'	61.5	3.2	3.2
8'	34.6	4.4	4.4
10'	22.1	5.4	5.4
15'	9.8	8.2	8.2
20'	5.5	11	11
30'	2.5	16.4	16.4
40'	1.4	22	22

CANDELA TABLE	
Angle	0-deg
0	2213
5	2126
10	1754
15	1279
20	845
30	288
40	3
50	1
60	1
70	0
80	0
90	0

Test Number	P29573
Lumcat	9004-[W1]-X-FL-[LEDCB, LEDCR]-F-BK-LC-UNV
Lumens	834 Lm
Watts	24 W
LPW	34.8 Lm/W
CCT	3500K
SC (0/90/45)	0.72 / 0.72 / 0.71
Beam Angle	44.7°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5

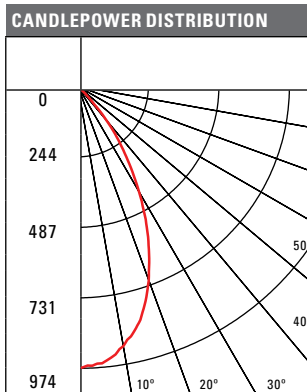
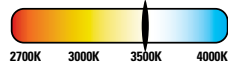


CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	367.2	1.4	1.4
4'	91.8	2.8	2.8
6'	40.8	4.2	4.2
8'	23	5.6	5.6
10'	14.7	7	7
15'	6.5	10.6	10.6
20'	3.7	14.2	14.2
30'	1.6	21.4	21.4
40'	0.9	28.6	28.6

CANDELA TABLE	
Angle	0-deg
0	1469
5	1435
10	1324
15	1135
20	865
30	368
40	36
50	3
60	3
70	0
80	0
90	0

Test Number	P29574
Lumcat	9004-[W1]-X-FL-[LEDCB, LEDCR]-W-BK-LC-UNV
Lumens	806 Lm
Watts	24 W
LPW	33.6 Lm/W
CCT	3500K
SC (0/90/45)	0.85 / 0.85 / 0.86
Beam Angle	55.8°

COLOR METRIC SUMMARY	
TM-30-15	Rf = 90.6 Rg = 100.4
CRI/CIE	Ra = 92.7 R9 = 67.5



CONE OF LIGHT			
Horizontal Illuminance on Floor			
MH	FC	L	W
2'	243.5	1.6	1.6
4'	60.9	3.4	3.4
6'	27.1	5	5
8'	15.2	6.8	6.8
10'	9.7	8.4	8.4
15'	4.3	12.8	12.8
20'	2.4	17	17
30'	1.1	25.6	25.6
40'	0.6	34	34

CANDELA TABLE	
Angle	0-deg
0	974
5	960
10	910
15	835
20	715
30	424
40	157
50	6
60	4
70	3
80	0
90	0

Note: Photometric tables show lumen output for W1 only. For W2 (Up and Down) option, uplight and downlight both match lumen output as W1.

LUMEN TABLE

		9004-[W1] Regressed Hood - Black								
		L1 - 10 W			L2 - 20 W			L3 - 30W		
		CBCP	Lumens	LPW	CBCP	Lumens	LPW	CBCP	Lumens	LPW
Spot 15°	LED2790	5584	783	79.5	10310	1445	71.9	13357	1872	65.7
	LED3090	5907	828	84.1	10906	1529	76.1	14130	1981	69.5
	LED3590	5983	839	85.1	11047	1549	77.0	14311	2006	70.4
	LED4080	7401	1038	105.3	13666	1916	95.3	17705	2482	87.1
	LED5080	7689	1078	109.4	14197	1990	99.0	18393	2578	90.5
	LED2797	5175	726	73.7	9556	1340	66.6	12380	1736	60.9
	LED3097	5224	732	74.4	9646	1352	67.3	12497	1752	61.5
	LED3597	5926	831	84.3	10941	1534	76.3	14175	1987	69.7
	LED4097	5869	823	83.5	10836	1519	75.6	14038	1968	69.1
Medium Flood 25°	LED2790	2907	781	79.2	5368	1441	71.7	6954	1867	65.5
	LED3090	3075	826	83.8	5678	1525	75.8	7357	1975	69.3
	LED3590	3115	836	84.9	5751	1544	76.8	7451	2001	70.2
	LED4080	3853	1035	105.0	7115	1910	95.0	9218	2475	86.8
	LED5080	4003	1075	109.1	7391	1984	98.7	9576	2571	90.2
	LED2797	2695	723	73.4	4975	1336	66.5	6446	1731	60.7
	LED3097	2720	730	74.1	5022	1348	67.1	6505	1747	61.3
	LED3597	3085	828	84.1	5696	1529	76.1	7380	1981	69.5
	LED4097	3055	820	83.3	5642	1515	75.4	7309	1962	68.9
Flood 36°	LED2790	2006	792	80.4	3704	1463	72.8	4799	1895	66.3
	LED3090	2122	838	85.1	3918	1547	77.0	5076	2004	70.1
	LED3590	2149	849	86.2	3969	1567	78.0	5142	2030	71.0
	LED4080	2659	1050	106.6	4910	1939	96.4	6361	2512	87.8
	LED5080	2762	1091	110.7	5101	2014	100.2	6608	2609	91.2
	LED2797	1859	734	74.5	3233	1356	67.4	4448	1756	61.4
	LED3097	1877	741	75.2	3466	1368	68.1	4490	1773	62.0
	LED3597	2129	841	85.3	3931	1552	77.2	5093	2011	70.3
	LED4097	2108	832	84.5	3893	1537	76.5	5044	1991	69.6
Wide Flood 60°	LED2790	1012	753	76.4	1869	1390	69.2	2422	1801	63.0
	LED3090	1071	796	80.8	1977	1470	73.2	2562	1905	66.6
	LED3590	1085	807	81.9	2003	1489	74.1	2595	1929	67.5
	LED4080	1342	998	101.3	2478	1842	91.7	3210	2387	83.5
	LED5080	1394	1037	105.2	2574	1914	95.2	3335	2480	86.7
	LED2797	938	698	70.8	1733	1288	64.1	2245	1669	58.4
	LED3097	947	704	71.5	1749	1300	64.7	2266	1685	58.9
	LED3597	1074	799	81.1	1984	1475	73.4	2570	1911	66.8
	LED4097	1064	791	80.3	1965	1461	72.7	2545	1893	66.2

TM30 DATA

9004	CCT/CRI	Rf	Rg	Ra	R9
	2790	90.9	98.9	91.7	58.3
	3090	90.8	99.1	92.5	62.6
	3590	90.6	100.4	92.7	67.5
	4080	82.5	94.3	83.1	11.4
	5080	81.6	94.1	82	6
	2797	94.9	100	98.1	86.9
	3097	94	100.3	97.8	88.9
	3597	92.9	99.3	97.2	89.1
	4097	91.5	98.7	95.4	84

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C, 40°C, 50°C	> 87%	> 102,000

POWER TABLE

Number of Heads	Light Level	Input Current (A) at 120 VAC	Input Current (A) at 277 VAC	Input Power (W)
W1	L1	0.08	0.03	10
	L2	0.177	0.088	20.93
	L3	0.252	0.118	30.02
	LC1	0.1	0.085	11.4
	LC2	0.183	0.088	21.44
W2	L1	0.16	0.06	20
	L2	0.354	0.176	41.86
	L3	0.504	0.236	60.04
	LC1	0.2	0.17	22.8
	LC2	0.366	0.176	42.88

INTEGRATED SENSOR - SVPD2

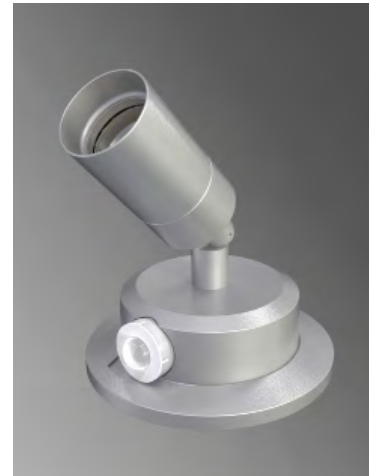
The Lanterra Cylinder 9004 with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Lanterra Cylinder 9004 delivers superior lighting with integrated PIR occupancy sensing and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated circuit planning or special wiring. The Lanterra Cylinder 9004 delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The SVPD2 sensor is configured for outdoor use, so the integral daylight sensor will enable the luminaire to automatically adjust to daylight conditions by turning off when sufficient sunlight is present. Consult factory for indoor configuration.

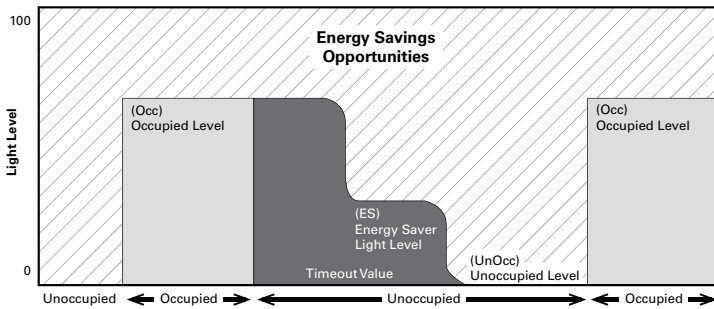
Occupied light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH01LUM). While the default unoccupied level is OFF, a lower light level can be saved instead using the programming remote. The integrated sensor personal remote (Catalog Number: ISHH02LUM) provides code compliant manual raise, lower, ON, OFF control.

The Lanterra Cylinder 9004 with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.



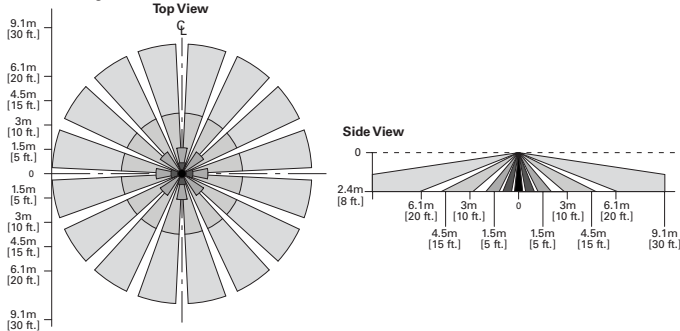
HOW IT WORKS

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the occupied light level.
- Lighting will remain at the occupied level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level (default matches occupied level). This adjustable light level is often set to half of the occupied daylight level using the programming remote.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.
- If sufficient sunlight is present, the luminaire will remain OFF, regardless of occupancy.

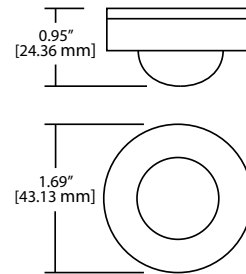


Coverage

SVPD2 Coverage Pattern (not to scale)



Sensor Dimensions



Optional Remote Controls



ISHH01LUM Programming Remote



ISHH02LUM Personal Control Remote

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Product Features



Product Certifications



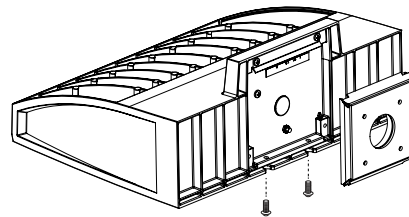
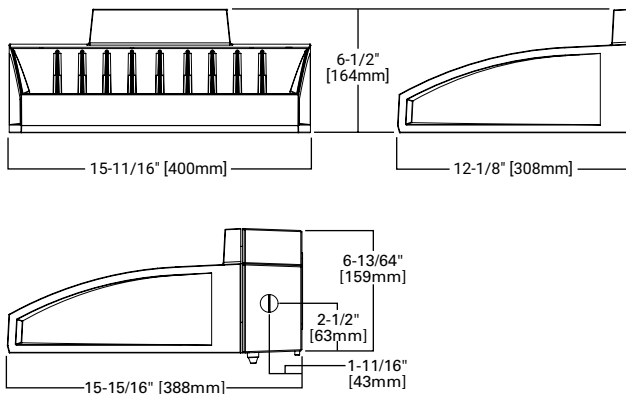
Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

Quick Facts

- Choice of thirteen high-efficiency, patented AccuLED Optics
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

Dimensional Details



NOTES:

1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Connected Systems

- WaveLinx
- Enlighted

Ordering Information

SAMPLE NUMBER: **GWC-SA2C-740-U-T4FT-GM**

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish	
	Configuration	Drive Current					
GWC =Galleon Wall BAA-GWC =Galleon Wall, Buy American Act Compliant ³⁵ TAA-GWC =Galleon Wall, Trade Agreements Act Compliant ³⁵	SA1 =1 Square SA2 =2 Squares ²	A =615mA B =800mA C =1000mA D =1200mA ⁴	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 760 =70CRI, 6000K 827 =80CRI, 2700K 830 =80CRI, 3000K AMB =Amber, 590nm ^{3, 4}	U =120-277V 1 =120V 2 =208V 3 =240V 4 =277V 8 =480V ^{6, 7} 9 =347V ⁶ DV =277-480V DuraVolt Drivers ^{7, 8, 37}	T2 =Type II T3 =Type III T4FT =Type IV Forward Throw T4W =Type IV Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I 5NQ =Type V Square Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White	
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) ³⁶		
F =Single Fused (120, 277 or 347V. Must Specify Voltage) FF =Double Fused (208, 240 or 480V. Must Specify Voltage) 10K =10kV Surge Module 20K =Series 20kV UL 1449 Surge Protective Device 2L =Two-Circuit Light Engine ³⁸ DIM =External 0-10V Dimming Leads ^{9, 10} CBP =Battery Pack with Back Box, Cold Weather Rated ^{2, 4, 14, 33} CBP-CEC =Battery Pack with Back Box, Cold Weather Rated, CEC compliant ^{2, 4, 14} L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right HSS =Factory Installed House Side Shield ²³ GRSBK =Factory Installed Glare Shield, BK ^{4, 27} GRSWH =Factory Installed Glare Shield, WH ^{4, 27} UPL =Uplight Housing ¹³ HA =50°C High Ambient ¹² LCF =Light Square Trim Plate Painted to Match Housing ²² MT =Factory Installed Mesh Top CC =Coastal Construction finish ⁵ CE =CE Marking and Small Terminal Block ²⁴ AHD145 =After Hours Dim, 5 Hours ¹⁶ AHD245 =After Hours Dim, 6 Hours ¹⁶ AHD255 =After Hours Dim, 7 Hours ¹⁶ AHD355 =After Hours Dim, 8 Hours ¹⁶ DALI =DALI Driver ¹¹			BPC =Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR =NEMA 3-PIN Twistlock Photocontrol Receptacle PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ SPB1 =Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{19, 34} SPB2 =Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting ^{19, 34} SPB4 =Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting ^{19, 34} MS-LXX =Motion Sensor for On/Off Operation ^{17, 18, 19} MS/DIM-LXX =Motion Sensor for Dimming Operation ^{17, 18, 19} ZW =WaveLinx-enabled 4-PIN Twistlock Receptacle ^{29, 30} ZD =WaveLinx Module with DALI driver and 4-PIN Receptacle ^{29, 30} SWPD4XX =WaveLinx Sensor Only, 7'-15' ^{31, 32} SWPD5XX =WaveLinx Sensor Only, 15'-40' ^{31, 32} WOBXX =WaveLinx Sensor with Bluetooth, 7'-15' ^{31, 32} WOFXX =WaveLinx Sensor with Bluetooth, 15'-40' ^{31, 32} LWR-LW =Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{19, 20, 21} LWR-LN =Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{19, 20, 21}		OA/RA1013 =Photocontrol Shorting Cap OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V MA1252 =10kV Circuit Module Replacement MA1059XX =Thru-branch Back Box (Must Specify Color) LS/HSS =Field Installed House Side Shield ^{23, 25} LS/GRSBK =Glare Shield, Black ^{25, 27} LS/GRSWH =Glare Shield, White ^{25, 27} LS/PFS =Perimeter Shield, Black ²⁸ FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ¹⁷ WOLC-7P-10A =WaveLinx Outdoor Control Module (7-pin) ^{26, 29} SWPD4-XX =WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{29, 30, 31, 32} SWPD5-XX =WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{29, 30, 31, 32}		
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Two light squares with CBP options limited to 25°C. CBP not available in combination with sensor options at 1200mA. 3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 4. Not available with HA option. 5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA. 7. 480V not to be used with ungrounded or impedance grounded systems. 8. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 9. Cannot be used with other control options. 10. Low voltage control leads extended 18" from fixture. 11. Not available in 1200mA. When used with CBP or HA options, only available with single light square. 12. Not available in 1200mA, UPL or CBP options. Available with single light square. 13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options. 14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC. 15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls. 16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information. 18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 19. Includes integral photosensor. 20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. 21. White sensor shipped on all housing color options. 22. Not available with HSS or GRS options. 23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected. 24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 25. One required for each light square. 26. Requires PR7. 27. Not for use with T4FT, T4W or SL4 optics. 28. Set of 4 pcs. Once set required per Light Square. 29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR). 30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 31. Requires ZW or ZD receptacle. 32. Replace XX with sensor color (WH, BZ, or BK). 33. Specify 120V or 277V. 34. Smart device with mobile application required to change system defaults. See controls section for details. 35. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC.PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 36. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 37. Not available in 1 square configuration at 800mA or below. Not available with any control option except SPB. 38. 2L not available with FF, AHD or DALI options. Controls and/or battery packs operate only one of the two circuits when 2L is specified. 2L with controls options not available with 347V or 480V.							

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments; Optional 50°C high ambient (HA) configuration

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

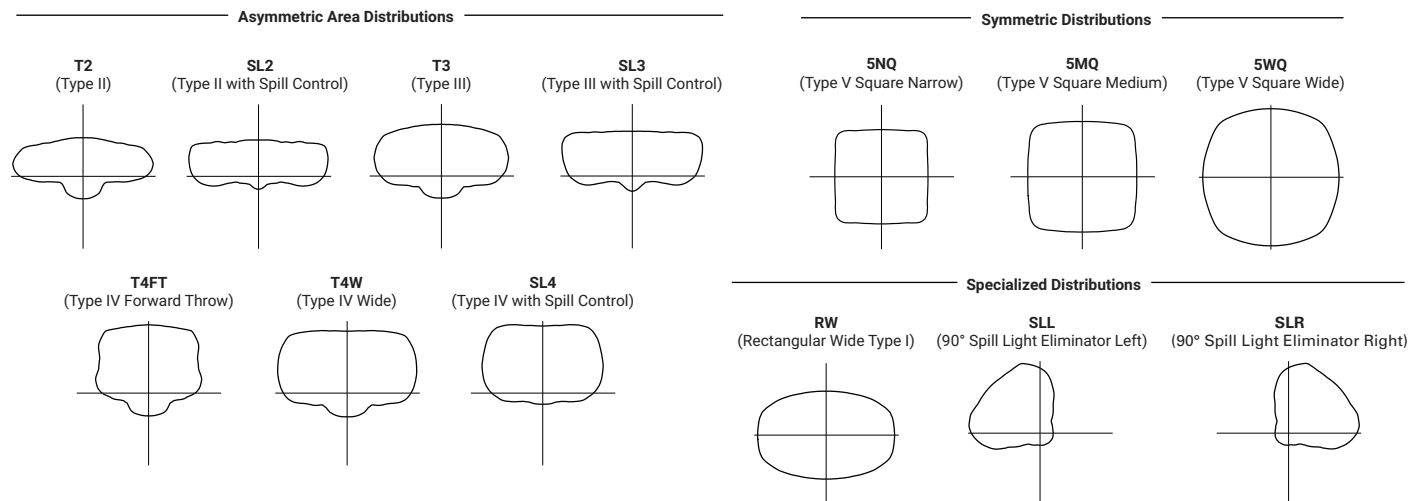
Typical Applications

- Exterior Wall, Walkway

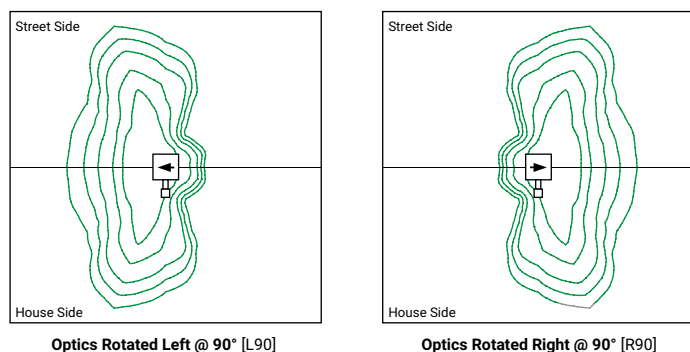
Warranty

- Five-year warranty

Optical Distributions



Optic Orientation



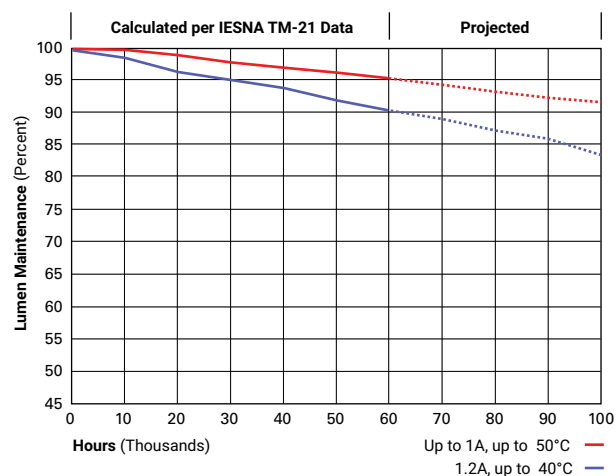
Energy and Performance Data

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

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



Energy and Performance Data

[View GWC Galleon Wall IES files](#)

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
T3	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
T4FT	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
T4W	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
SL2	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
SL3	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
SL4	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
5NQ	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	151	143	132	128	152	143	135	129
5MQ	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	134	130	155	146	137	132
5WQ	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
SLL/SLR	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
RW	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

3000K CCT, 80 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
T3	Lumens	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	116	110	102	98	117	110	104	100
T4FT	Lumens	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	117	111	102	99	118	111	104	100
T4W	Lumens	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	116	109	101	98	116	109	103	99
SL2	Lumens	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
SL3	Lumens	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	116	110	102	98	117	110	104	100
SL4	Lumens	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	Lumens per Watt	111	105	97	93	111	105	99	95
5NQ	Lumens	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	BUG Rating	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	120	114	105	101	121	114	107	103
5MQ	Lumens	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	122	116	107	103	123	116	109	105
5WQ	Lumens	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	123	116	107	104	123	116	109	105
SLL/SLR	Lumens	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	102	97	89	86	103	97	91	88
RW	Lumens	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	119	113	104	100	120	113	106	102

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

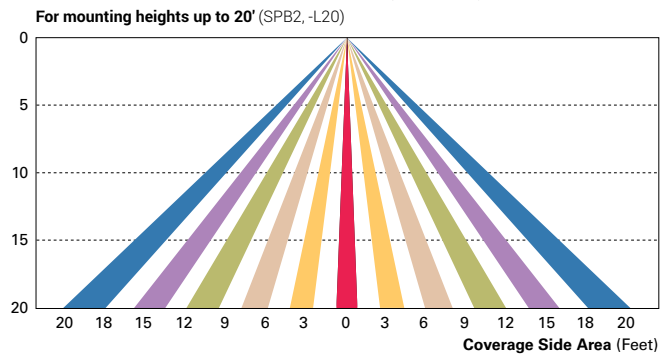
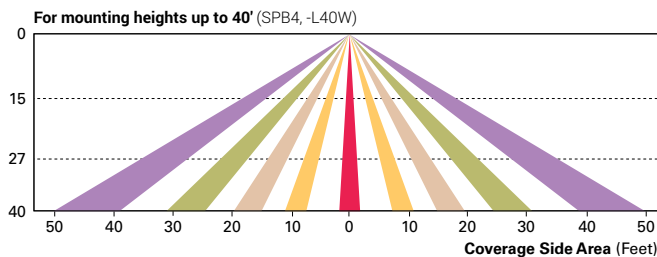
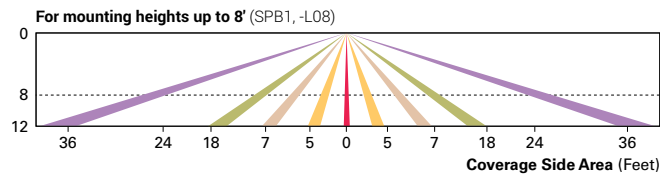
Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

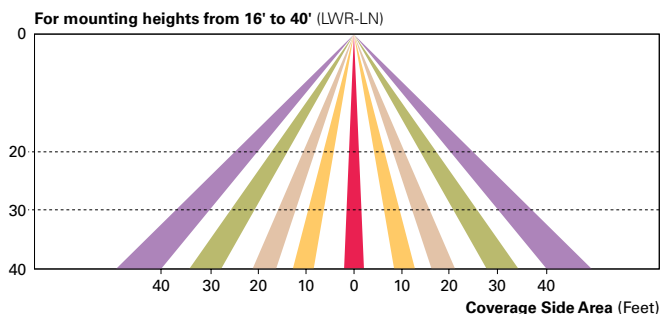
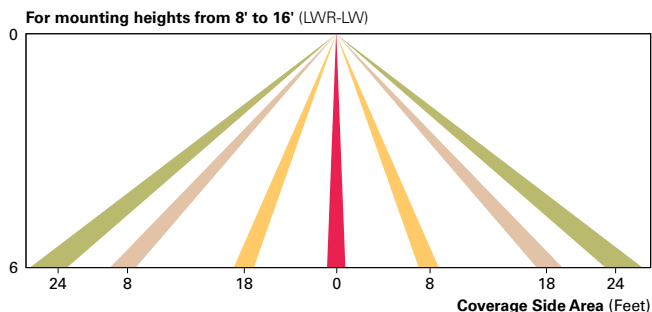
Photocontrol (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A) The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.