



# ID+ 4.5"

LED DOWNLIGHT



FOCAL POINT®



clear diffuse



warm diffuse



white painted  
flange



black reflector

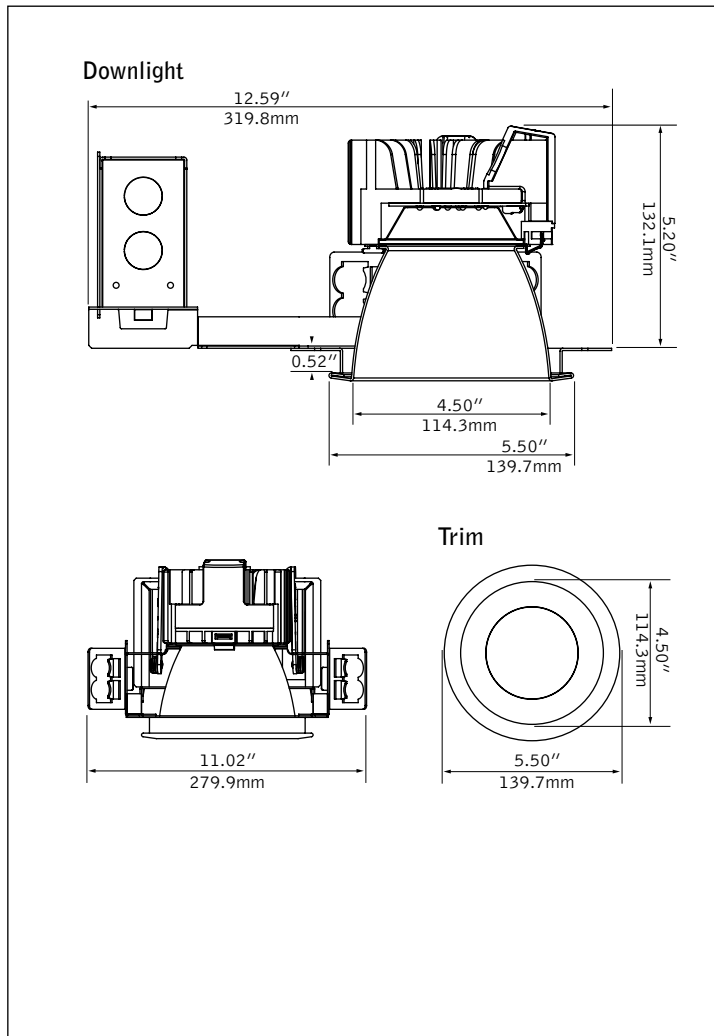


white reflector



trimless  
companion

## DIMENSIONAL DATA



## FEATURES

ChromaSure: Color consistency resulting in a 2-step MacAdam ellipse across the entire ID+ product line.

Field adjustability of ceiling thickness from 0.5" - 2.5".

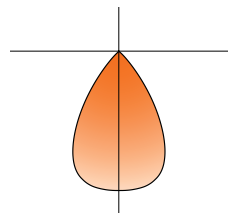
Shallow housing.

50° cutoff to light source and its image.

Selection of dimming drivers available.

Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

## PERFORMANCE



**PRODUCT OVERVIEW**

Lumen Output: 1000-3000lm

Wattage: 12-45W

LPW: 66-81


Spacing Criteria: 1.01-1.02

SDCM: 2

Clear Diffuse Reflector  
3500k

**Delivered Lumens: 2000lm**

**Total System Watts: 26W**

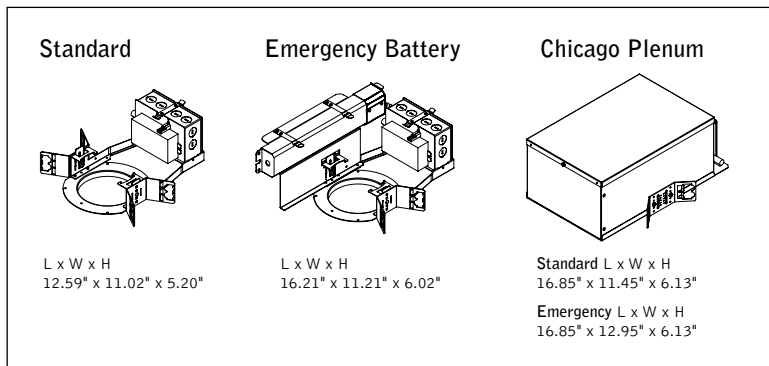


Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit energystar.gov for model specifics.

fixture:

project:

## HOUSING DETAILS



## HOUSING SPECIFICATIONS

### Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Butterfly brackets allow mounting to 1/2 emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. UL & cUL listed for (6) #14 AWG (3 in, 3 out) 90°C conductors and feed through-branch wiring. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 2.5" thickness. For thicker ceiling consult factory. Order TZB option for TechZone compatible housing brackets. Fixture will not exceed 5 lb.

### Electrical

Choice of constant current dimming drivers. Power factor > .9 typical.

### Emergency

Emergency Battery Pack: Bodine BSL17C-C2. Emergency output —7W for 90 minutes. Maximum mounting height: 23.3ft. (Black reflector color: 18.1ft.)

### Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only. Specify wet listed (WL) for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0°C.

### Lumen Maintenance

Reported: L70 at >63,000 hours  
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

### Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

### Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty.

## TRIM & LED SPECIFICATIONS

### LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, CRI>80. Color accuracy within 2 SDCM. Aluminum heat sink provides appropriate thermal management.

### Aesthetics

Parabolic reflector cone ensures glare free optics. Reflector is .050 spun aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trims are self-flanged. Non-painted trim matches reflector finish. White painted flange may also be specified.

### Optics

50-degree cut-off to light source and its image.

## PERFORMANCE CHART

Delivered Lumens	System Watts	LPW
1000	12	81
1500**	19	78
2000**	26	76
2500	36	70
3000	45	66

Based on 3000/3500K, Clear Diffuse reflector cone, 80CRI Multipliers: 2700K: 0.94, 4000K: 0.1.06, 90CRI Multipliers: 2700K: 0.71, 3000/3500K: 0.83, 4000K: 0.89, Black Multiplier: 0.56, White Multiplier: 1.13. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%. \*\*LU5 output: 1500L=1250lm, 2000L=1800lm.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

## HOUSING ORDERING

<b>Housing Series</b>	<b>FLC4D</b>
ID+ 4.5" Round Downlight	FLC4D
<b>Trim Type</b>	<b>RO</b>
Round Overlap <small>(Click to view trimless cutsheet)</small>	RO
<b>Lumen Output</b>	
1000 Lumens	1000L
1500 Lumens	1500L
2000 Lumens	2000L
2500 Lumens	2500L
3000 Lumens	3000L
<b>Voltage</b>	
120V	120
277V**	277
<b>Control System &amp; Dimming Level</b>	
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
Lutron 5-Series EcoSystem (LDE5) - 5% Dimming <small>(Not available with 1000L &amp; 3000L)</small>	LU5
DALI - 1% Dimming	D11
DMX - 3-Channel, 0% Dimming	MZ3
<b>Housing Type</b>	<b>T</b>
Thermally Protected, Non-IC	T
<b>Factory Options</b>	
Bar Hangers	BH
Chicago Plenum / National Plenum	CP
Emergency Battery <small>(Must order LC4EM trim)</small>	EM
6" TechZone Brackets	TZB
<b>TRIM &amp; LED MODULE</b>	
<b>Aperture</b>	
4.5" Round Reflector	LC4
4.5" Round Reflector - Emergency <small>(Required for "EM" option)</small>	LC4EM
<b>Trim Type</b>	<b>RD</b>
Round	RD
<b>Lumen Output</b> <small>(Trim &amp; Housing output must match)</small>	
1000 Lumens	1000L
1500 Lumens	1500L
2000 Lumens	2000L
2500 Lumens	2500L
3000 Lumens	3000L
<b>Color Temperature</b>	
2700K	27K
2700K, 90CRI	927K
3000K	30K
3000K, 90CRI	930K
3500K	35K
3500K, 90CRI	935K
4000K	40K
4000K, 90CRI	940K
<b>Optic</b>	<b>DN</b>
Downlight	DN
<b>Color</b>	
Clear Diffuse	CD
Warm Diffuse	WD
Black <small>(Black Painted flange only)</small>	BK
White <small>(White Painted flange only)</small>	WH
<b>Flange Finish</b>	
Non-Painted <small>(Clear and warm diffuse only)</small>	NP
Black Painted	BP
White Painted	WP
<b>Factory Options</b>	
Wet Listed <small>(Not available with 90CRI)</small>	WL

A complete unit consists of two line items, housing and trim  
Example: FLC4D-RO-1500L-120-LD1-T | LC4-RD-1500L-35K-DN-CD-NP



Options in orange qualify for the Quickship program. 5-day up to 100 pieces. Refer to Quickship Guide for complete details.

For more information visit focalpointlights.com/reference or consult factory.

# ID+ 4.5"

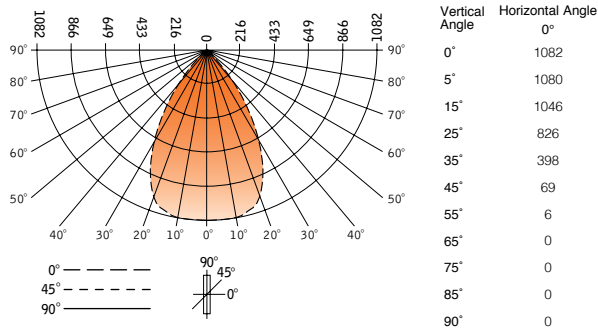
LED DOWNLIGHT

## FLC4D-RO-1000L-120-L11-T / LC4-RO-1000L-35K / 40K-DN-CD-NP

Filename: FLC4DRO1000L\_35K\_40K\_DNCD.IES  
Test #: 1100914

Lumens: 1082lm  
System Watts: 13W  
LPW: 83

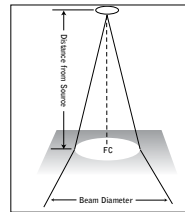
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	768	71.0
0-40°	1014	93.7
0-60°	1081	99.9
0-90°	1082	100.0
<b>Total Luminaire</b>	<b>0-180°</b>	<b>1082</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	68
6'	7.5'	30
8'	10.0'	17
10'	12.5'	11

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# ID+ 4.5"

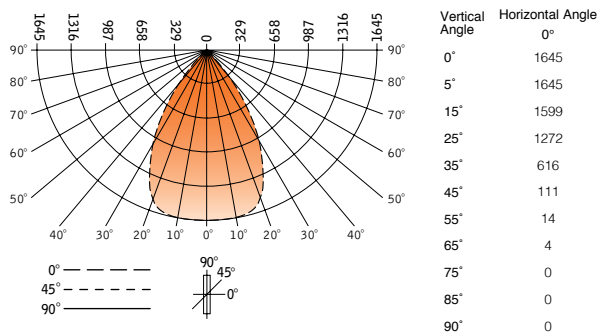
LED DOWNLIGHT

## FLC4D-RO-1500L-120-L11-T / LC4-RO-1500L-35K / 40K-DN-CD-NP

Filename: FLC4DRO1500L\_35K\_40K\_DNCD.IES  
Test #: 1100916

Lumens: 1676lm  
System Watts: 21W  
LPW: 80

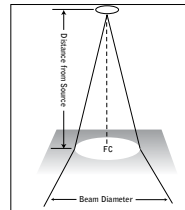
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1178	70.3
0-40°	1559	93.0
0-60°	1671	99.7
0-90°	1676	100.0
<b>Total Luminaire</b>	<b>0-180°</b>	<b>1676</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	103
6'	7.5'	46
8'	10.0'	26
10'	12.5'	16

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# ID+ 4.5"

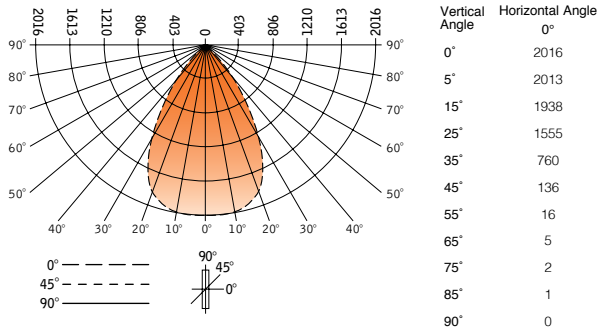
LED DOWNLIGHT

## FLC4D-RO-2000L-120-L11-T / LC4-RO-2000L-35K / 40K-DN-CD-NP

Filename: FLC4DRO2000L\_35K\_40K\_DNCD.IES  
Test #: 1117165

Lumens: 2050lm  
System Watts: 27W  
LPW: 76

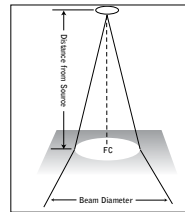
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	1436	70.1	
0-40°	1907	93.0	
0-60°	2042	99.6	
0-90°	2050	100.0	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2050</b>	<b>100.0</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	126
6'	7.5'	56
8'	10.0'	31
10'	12.5'	20

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# ID+ 4.5"

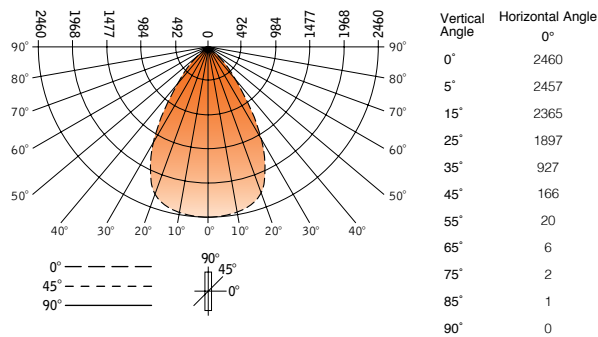
LED DOWNLIGHT

## FLC4D-RO-2500L-120-L11-T / LC4-RO-2500L-35K / 40K-DN-CD-NP

Filename: FLC4DRO2500L\_35K\_40K\_DNCD.IES  
Test #: 1117163

Lumens: 2502lm  
System Watts: 36W  
LPW: 70

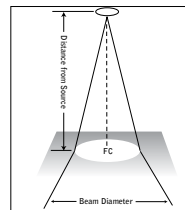
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	1753	70.1	
0-40°	2326	93.0	
0-60°	2492	99.6	
0-90°	2502	100.0	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2502</b>	<b>100.0</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	154
6'	7.5'	68
8'	10.0'	38
10'	12.5'	25

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# ID+ 4.5"

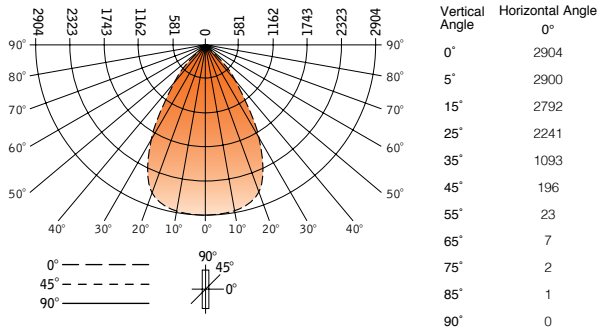
LED DOWNLIGHT

## FLC4D-RO-3000L-120-L11-T / LC4-RO-3000L-35K / 40K-DN-CD-NP

Filename: FLC4RDO3000L\_35K\_40K\_DNCD.IES  
 Test #: 1117164

Lumens: 2953lm  
 System Watts: 45W  
 LPW: 66

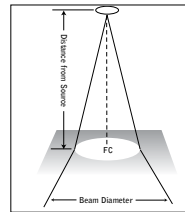
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	2070	70.1	
0-40°	2746	93.0	
0-60°	2942	99.6	
0-90°	2953	100.0	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2953</b>	<b>100.0</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	182
6'	7.5'	81
8'	10.0'	45
10'	12.5'	29

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

JOB \_\_\_\_\_ TYPE \_\_\_\_\_

NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

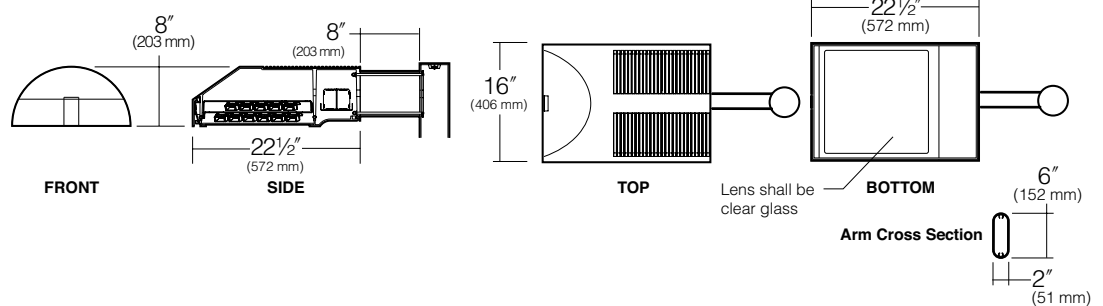
**FEATURES**

- PicoEmitter® technology¹
- Full upright cutoff
- Available in 580nm 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5, R, L standard distributions
- 0-10V dimming drivers standard
- IP66 certified

**Certifications**



**SPECIFICATIONS**



**Approx. Weight = 50 lbs. EPA 1.20 for 1A.**  
 See Configuration for Additional EPAs.

**ORDERING CODE**

Configuration	EPA	Fixture	Electrical Module			Fixture Finish	Photocell Options	
1A	1.20	Distribution	Drive Current	Source	Color Temperature²	Voltages	BL Black	A25-7 7-pin Photocell Receptacle
2B	2.40	AR1 Type I	E35 350mA PicoEmitter	120L 120 LEDs, 129W	2K 580nm³	120 120V	DB Dark Bronze	A30 120V Button Photocell
2L	2.00	AR2 Type II			3K 3000K	208 208V	GT Graphite	A31 208V Button Photocell
3T	3.20	AR3 Type III			4K 4000K	240 240V	LG Light Gray	A32 240V Button Photocell
3Y*	3.20	AR4 Type IV			5K 5000K	277 277V	PS Platinum Silver	A33 277V Button Photocell
4C	3.90	AR5 Type V				347 347V⁴	TT Titanium	A34 480V Button Photocell
1W	n/a	ARR Type R, Right				480 480V⁴	WH White	A35 347V Button Photocell
HSF	n/a	ARL Type L, Left					CC Custom Color*	

\*Consult Representative

\*Available round poles only. EPA is for Fixture only

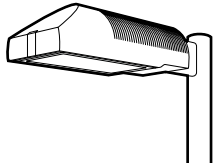
Fuse Options	Lens Options	NFO Option	Other Options	Controls	
SF 120, 277, 347 Line Volts	LS Polycarbonate Lens⁵	NFO Neighbor Friendly Optic*	TL Tamper Resistant Latch	<u>Wireless</u>	<u>Motion</u>
DF 208, 240, 480 Line Volts		*Photometry available for Type III/IV. All others, consult factory.		WIR-RMI-IO 120-347V, 1000' range, WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.	SCL-R Round Pole Mounted Occupancy Sensor up to 16'
					SCL-S Square Pole Mounted Occupancy Sensor up to 16'
					SCH-R Round Pole Mounted Occupancy Sensor 16' to 30'
					SCH-S Square Pole Mounted Occupancy Sensor 16' to 30'

Mounting Options	
VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.)	Side Arm Mount
SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)	3 3" O.D. Pole
	3.5 3.5" O.D. Pole
	4 4" O.D. Pole
	5 5" O.D. Pole
	6 6" O.D. Pole
	SQ Square Pole

For Pole Spec Select: [http://www.kimlighting.com/products/arms\\_and\\_poles/](http://www.kimlighting.com/products/arms_and_poles/)  
 For Control Spec Select: <http://trpssl.com/index.html>

¹ US Patent No. D674,965 S. Other patents pending.  
 ² For custom optics and color temperature configurations, contact factory.  
 ³ Turtle friendly. Maximum 500mA drive current for 2K Amber option.  
 ⁴ 347V & 480V currents may be supplied with step-down transformer.  
 ⁵ 350mA only.  
 ⁶ Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

Kim Lighting reserves the right to change specifications without notice.



## Lumen Data

Spectroradiometric			
	3000K Average	4000K Average	5000K Average
Color Rendering Index (CRI)	≥80	≥80	≥70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	93.17%	579,000 hrs

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	1.08	129
208	0.62	129
240	0.54	129
277	0.47	129
347	0.37	129
480	0.27	129

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G1	TBD
4000K	TBD	B2 U0 G2	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5000K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD

Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	7555	7496	6391	7945	6636	8428	TBD
4000K	TBD	9773	9697	8267	10277	8584	10902	TBD
5000K	TBD	10478	10397	8864	11019	9204	11689	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

## SPECIFICATIONS

### Housing:

- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment.
- Solid barrier wall separates optical and electrical compartments.
- Double-thick wall with gussets on the support-arm mounting end.
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail.
- All hardware is stainless steel or electro-zinc plated steel.

### Lens Frame:

- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange.
- Integral hinges with stainless steel pins provide no-tool mounting and removal from housing.
- Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket to provide an IP66 rating for the optical module.
- Clear 3/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

### Optical Module:

- Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task.
- The entire EmitterDeck fastens to the housing as a one-piece module.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

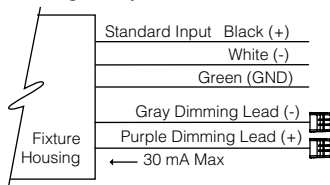
### Electrical Characteristics:

- 120V through 480V @ 50/60Hz.
- Class 1, 350mA.
- Power Factor = >.90

- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermalshield thermal control.
- -40c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.

### Dimming:

- 10% to 100% dimming by the use of standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Gray lead as the negative (-) to an available control signal (by others).



### Support Arm:

- One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom.
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief.
- Arm is circular cut for specified round pole.
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate.

### Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

### Fusing:

**SF** for 120, 277 and 347 Line Volts

**DF** for 208, 240 and 480 Line Volts.

- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

### Certifications and Listings:

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- IDA compliant.
- RoHS compliant.
- Meets Buy American provisions within ARRA.
- IDA approved, 3000K and warmer CCTs only.

### CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

### WARRANTY:

- For full warranty see <http://www.hubbellighting.com/resources/warranty>

Kim Lighting reserves the right to change specifications without notice.

**CONTROLS**

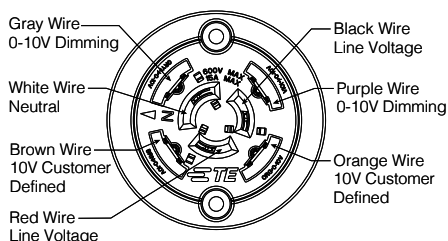
**Photocell Receptacle**

**A25-7**

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



**Button Photocell**

**A30** for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

**wiSCAPE™**

Hubbell Building Automation’s wiSCAPE In-Fixture Module is a bi-directional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE In-Fixture Module communicates wirelessly over a robust 2.4GHz ISM (Industrial, Scientific and Medical) certified meshed radio signal. The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments, and challenges the legacy world of wired-systems. wiSCAPE wireless control technology easily adapts to complex automation situations for quick, simple and economical commissioning. The On-Fixture Module is compatible with A-25-7H option.

**WIR-RMI-IO**

120 - 347V 1000 Foot Range WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.

**Pole Mounted**

**Round Pole-Mounted Occupancy Sensor up to 16'**

**SCL-R**

Round Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-R4<sup>1</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor up to 16'**

**SCL-S**

Square Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-L/277<sup>2</sup>/BL<sup>3</sup>

**Round Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-R**

Round Pole-Mounted Occupancy Sensor: 16' to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4<sup>1</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-S**

Square Pole-Mounted Occupancy Sensor: 16 to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277<sup>2</sup>/BL<sup>3</sup>

**SCP**

The SCP is a photo-control with motion sensing accessory that mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

[http://www.aal.net/products/sensor\\_control\\_programmable](http://www.aal.net/products/sensor_control_programmable)

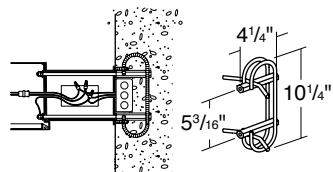
<sup>1</sup>Pole Diameter, <sup>2</sup>Voltage, <sup>3</sup>Color

*Kim Lighting reserves the right to change specifications without notice.*

**OPTIONS**

**Wall Mounting:**

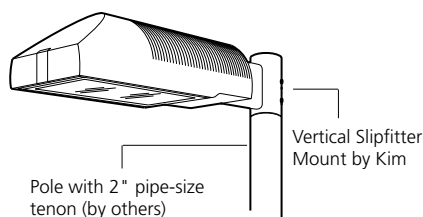
- Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket (WEB) is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.



Wall mount using wall embedment bracket - J-box in wall (by others)

**Vertical Slipfitter Mount:**

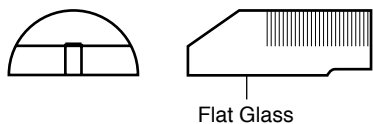
- Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm.



**Polycarbonate Lens:**

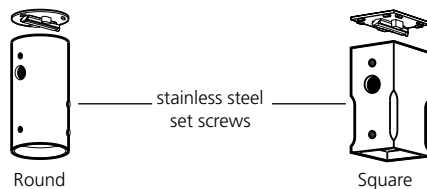
- Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens.

**CAUTION: Use only when vandalism is anticipated to be high.**



Flat Glass

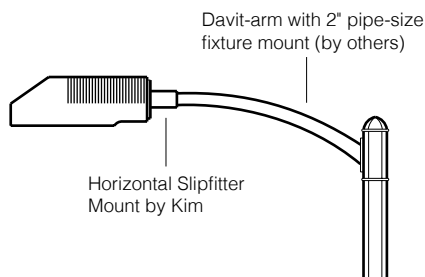
**NOTE:** 3Y only available on round slipfitter.



Cat. No.	Mounting Configuration	Cat. No.
VSF-1A	1A - single arm mount	SVSF-1A
VSF-2B	2B - 2 at 180°	SVSF-2B
VSF-2L	2L - 2 at 90°	SVSF-2L
VSF-3T	3T - 2 at 90°	SVSF-3T
VSF-3Y	3Y - 2 at 120°	SVSF-4C
VSF-4C	4C - 2 at 90°	

**Horizontal Slipfitter Mount:**

- Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum slipfitter with set screw for an up or down 5° adjustment lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.



**Neighbor Friendly Optic**

- Integrated Neighbor Friendly Optic on each PicoPrism™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.

**Tamper-Resistant Latch**

- Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.

**NOTE:** Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

Kim Lighting reserves the right to change specifications without notice.

JOB \_\_\_\_\_ TYPE \_\_\_\_\_  
 NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

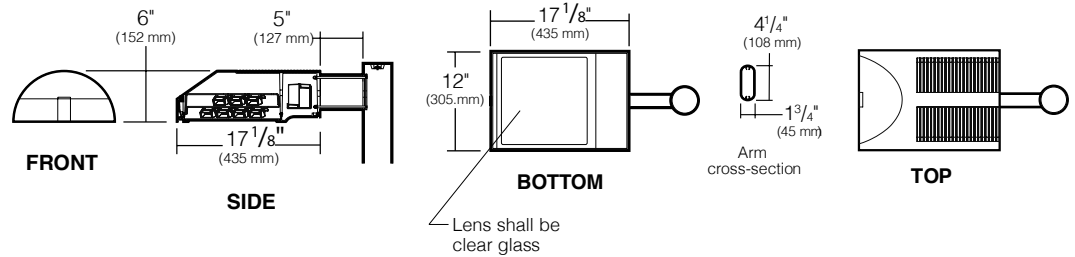
**FEATURES**

- PicoEmitter® technology¹
- Full upright cutoff
- Available in 580nm 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5, R, L standard distributions
- 0-10V dimming drivers standard
- IP66 certified

**Certifications**



**SPECIFICATIONS**



Approx. Weight = 30 lbs. EPA .070 for 1SA.  
 See Configuration for Additional EPAs.

**ORDERING CODE**

Configuration	EPA	Fixture	Electrical Module			Fixture Finish	Photocell Options		
1SA	1 Arm Side Mt.	0.70	Distribution	Drive Current	Source	Color Temperature²	Voltages	BL Black	A25-7 7-pin Photocell Receptacle
2SB	2 Arm Side Mt.	1.40	SAR1 Type I	E35 350mA PicoEmitter	60L 60 LEDs, 66W	2K 580nm³	120 120V	DB Dark Bronze	A30 120V Button Photocell
2SL	2 Arm Side Mt.	1.20	SAR2 Type II			3K 3000K	208 208V	GT Graphite	A31 208V Button Photocell
3ST	3 Arm Side Mt.	1.90	SAR3 Type III			4K 4000K	240 240V	LG Light Gray	A32 240V Button Photocell
3SY*	3 Arm Side Mt.	1.90	SAR4 Type IV			5K 5000K	277 277V	PS Platinum Silver	A33 277V Button Photocell
4SC	4 Arm Side Mt.	2.50	SAR5 Type V				347 347V⁴	TT Titanium	A34 480V Button Photocell
1W	Single Wall Mt.	n/a	SARR Type R, Right				480 480V⁴	WH White	A35 347V Button Photocell
HSF	Horz. Slipfitter	n/a	SARL Type L, Left					CC Custom Color*	

\*Available round poles only. EPA is for Fixture only

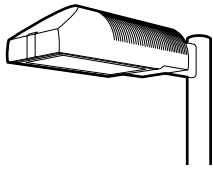
Fuse Options	Lens Options	NFO Option	Other Options	Controls	
SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts	LS Polycarbonate Lens⁵	NFO Neighbor Friendly Optic*  *Photometry available for Type III/IV. All others, consult factory.	TL Tamper Resistant Latch	<p style="text-align: center;"><u>Wireless</u></p> <p><b>WIR-RMI-IO</b> 120-347V, 1000' range, WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.</p> <p style="text-align: center;"><u>Motion</u></p> <p><b>SCL-R</b> Round Pole Mounted Occupancy Sensor up to 16'</p> <p><b>SCL-S</b> Square Pole Mounted Occupancy Sensor up to 16'</p> <p><b>SCH-R</b> Round Pole Mounted Occupancy Sensor 16' to 30'</p> <p><b>SCH-S</b> Square Pole Mounted Occupancy Sensor 16' to 30'</p>	

Mounting Options	
<b>VSF</b> Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.)	<b>Side Arm Mount</b> 3 3" O.D. Pole
<b>SVSF</b> Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)	3.5 3.5" O.D. Pole
	4 4" O.D. Pole
	5 5" O.D. Pole
	6 6" O.D. Pole
	<b>SQ</b> Square Pole

For Pole Spec Select: [http://www.kimlighting.com/products/arms\\_and\\_poles/](http://www.kimlighting.com/products/arms_and_poles/)  
 For Control Spec Select: <http://trpssl.com/index.html>

¹ US Patent No. D674,965 S. Other patents pending.  
 ² For custom optics and color temperature configurations, contact factory.  
 ³ Turtle friendly. Maximum 500mA drive current for 2K Amber option.  
 ⁴ 347V & 480V currents may be supplied with step-down transformer.  
 ⁵ 350mA only.  
 ⁶ Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

Kim Lighting reserves the right to change specifications without notice.



## Lumen Data

Spectroradiometric			
	3000K Average	4000K Average	5000K Average
Color Rendering Index (CRI)	≥80	≥80	≥70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	93.04%	565,000 Hrs

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	0.54	65
208	0.31	65
240	0.27	65
277	0.23	65
347	0.19	65
480	0.14	65

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	B1 U0 G1	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4000K	TBD	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B3 U0 G1	TBD
5000K	TBD	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B0 U0 G1	B3 U0 G1	TBD

Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	3987	3827	3156	3922	3208	3907	TBD
4000K	TBD	5277	5065	4176	5191	4246	5171	TBD
5000K	TBD	5527	5305	4374	5437	4447	5416	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

**SPECIFICATIONS**

**Housing:**

- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment.
- Solid barrier wall separates optical and electrical compartments.
- Double-thick wall with gussets on the support-arm mounting end.
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail.
- All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:**

- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange.
- Integral hinges with stainless steel pins provide no-tool mounting and removal from housing.
- Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket to provide an IP66 rating for the optical module.
- Clear 3/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Optical Module:**

- Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task.
- The entire EmitterDeck fastens to the housing as a one-piece module.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

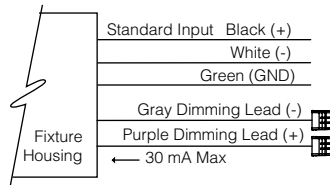
**Electrical Characteristics:**

- 120V through 480V @ 50/60Hz.
- Class 1, 350mA.
- Power Factor = >.90

- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermalshield thermal control.
- -40c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.

**Dimming:**

- 10% to 100% dimming by the use of standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



**Support Arm:**

- One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom.
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief.
- Arm is circular cut for specified round pole.
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate.

**Finish:**

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.

- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

**Fusing:**

**SF** for 120, 277 and 347 Line Volts  
**DF** for 208, 240 and 480 Line Volts.

- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

**Certifications and Listings:**

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- IDA compliant.
- RoHS compliant.
- Meets Buy American provisions within ARRA.
- IDA approved, 3000K and warmer CCTs only.

**CAUTION:**

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

**WARRANTY:**

- For full warranty see <http://www.hubbellighting.com/resources/warranty>

*Kim Lighting reserves the right to change specifications without notice.*

**CONTROLS**

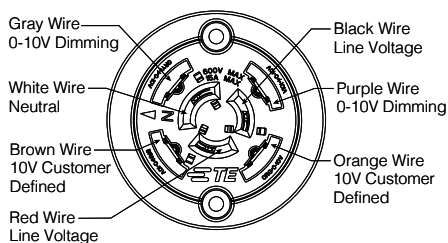
**Photocell Receptacle**

**A25-7**

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



**Button Photocell**

**A30** for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

**wiSCAPE™**

Hubbell Building Automation's wiSCAPE™ In-Fixture Module is a bi-directional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE In-Fixture Module communicates wirelessly over a robust 2.4GHz ISM (Industrial, Scientific and Medical) certified meshed radio signal. The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments, and challenges the legacy world of wired-systems. wiSCAPE wireless control technology easily adapts to complex automation situations for quick, simple and economical commissioning. The On-Fixture Module is compatible with A-25-7H option.

**WIR-RMI-IO**

120 - 347V 1000 Foot Range WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.

**Pole Mounted**

**Round Pole-Mounted Occupancy Sensor up to 16'**

**SCL-R**

Round Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-R4<sup>1</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor up to 16'**

**SCL-S**

Square Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-L/277<sup>2</sup>/BL<sup>3</sup>

**Round Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-R**

Round Pole-Mounted Occupancy Sensor: 16' to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4<sup>1</sup>/277<sup>2</sup>/BL<sup>3</sup>

**Square Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-S**

Square Pole-Mounted Occupancy Sensor: 16 to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277<sup>2</sup>/BL<sup>3</sup>

**SCP**

The SCP is a photo-control with motion sensing accessory that mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability. For more detail:

[http://www.aal.net/products/sensor\\_control\\_programmable](http://www.aal.net/products/sensor_control_programmable)

<sup>1</sup>Pole Diameter, <sup>2</sup>Voltage, <sup>3</sup>Color

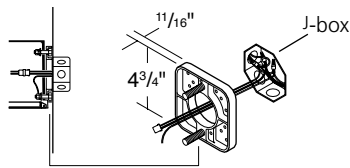
Kim Lighting reserves the right to change specifications without notice.

**OPTIONS**

**Wall Mounting:**

- Fixture mounts to 3" or 4" junction boxes by a cast aluminum adapter plate with fixture mounting bolts.

**NOTE:** Junction box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16. Quick-disconnect plug and wiring are provided to allow field connections prior to fixture mounting.

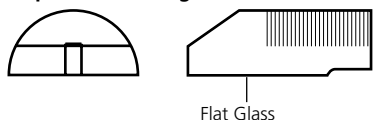


Wall mount using adapter plate 3" or 4" J-box in wall (by others)

**Polycarbonate Lens:**

- Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens.

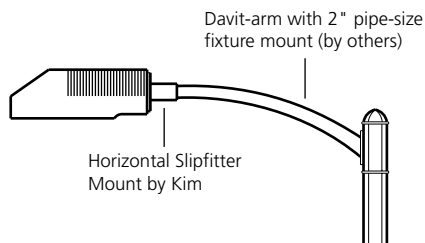
**CAUTION: Use only when vandalism is anticipated to be high.**



Flat Glass

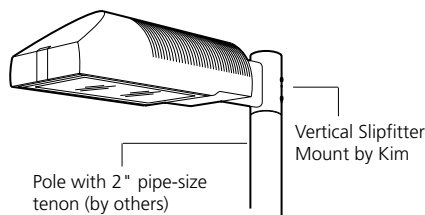
**Horizontal Slipfitter Mount:**

- Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum slipfitter with set screw for an up or down 5° adjustment lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.

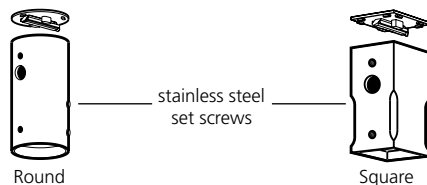


**Vertical Slipfitter Mount:**

- Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length). All mounting configurations can be used (1SA, 2SB, 2SL, 3ST, 3SY, 4SC). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm.



**NOTE:** 3SY only available on round slipfitter.



Cat. No.	Mounting Configuration	Cat. No.
VSF-1SA	1SA - single arm mount	SVSF-1SA
VSF-2SB	2SB - 2 at 180°	SVSF-2SB
VSF-2SL	2SL - 2 at 90°	SVSF-2SL
VSF-3ST	3ST - 2 at 90°	SVSF-3ST
VSF-3SY	3SY - 2 at 120°	SVSF-4SC
VSF-4SC	4SC - 2 at 90°	

**Neighbor Friendly Optic**

- Integrated Neighbor Friendly Optic on each PicoEmitter™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.

**Tamper-Resistant Latch**

- Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.

**NOTE:** Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

Kim Lighting reserves the right to change specifications without notice.

**GEOPAK SERIES**  
**SIZE 1 LED**  
 Architectural Wallpack  
 TRP1/RD11/QSP1



Cat.#	
Job	Type

Approvals

**SPECIFICATIONS**

**APPLICATIONS**

- Small sized architectural wallpacks in three stylish shapes with molded contours to accentuate building architecture. Provides excellent illumination in energy-saving LED systems.
- Back box accessory available for surface conduit application.

**Construction:**

- Housing is made from die-cast aluminum with a hinged back-plate for ease of installation and maintenance.
- The LED bezel and trim-plate are made of stainless steel.
- Five powder coat standard finishes, plus custom color options.
- Wet Location Listed to UL924 and UL1598 Standard.

**LED:**

- 12 high power LEDs delivering up to 3,000 lumens.
- Up to 118 lumens per watt
- Type II, III and IV distributions for a wide variety of applications.
- Zero uplight (UO), dark sky, neighbor friendly

**Electrical:**

- 120-277 operation, 50/60Hz
- 0-10V dimming driver standard
- 10kA surge protector
- Photocell and occupancy sensor options available for complete on/off and dimming control

**Battery Backup:**

- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress.
- Includes a long-life Lithium Iron Phosphate battery with optional battery heater for cold temperature application.
- Utilizes 4 LEDs in emergency mode with 657 lumens. Each of the 4 LEDs in emergency are designed to function independently in the unlikely event of a single LED malfunction
- Spectron® self-testing/self-diagnostic electronics are included standard
- Independent dedicated driver and LED array for battery/emergency mode operation.

**Installation:**

- Universal plate for mounting to standard 3 1/2" and 4" square electrical boxes. All connections are made from connections at the rear of the unit.
- Optional back-box accessory available for surface conduit application. See BB-Geo accessories.

**Listings:**

- UL 1598 listed for use in wet locations
- Drivers IP66 and RoHS compliant
- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)

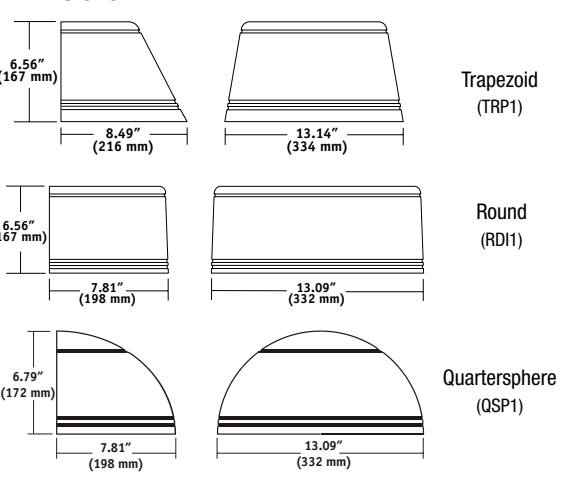
**Warranty:**

• For more information visit:  
<http://www.hubbelloutdoor.com/resources/warranty/>

**PRODUCT IMAGE(S)**



**DIMENSIONS**



**SHIPPING INFORMATION**

Catalog Number	Weight (lbs)	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
TRP1	11.5	17.0	9.9	10.0
RD11	11.5	18.0	11.0	9.25
QSP1	10.5	17.0	9.6	10.5

**CERTIFICATIONS/LISTINGS**

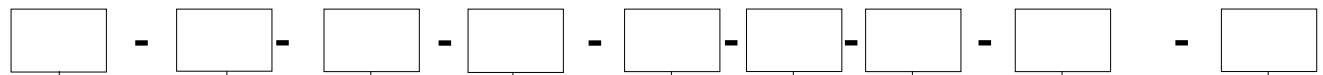


\*3000K and warmer CCTs only



**ORDERING INFORMATION**

ORDERING EXAMPLE: TRP-12L-20-4K-3-1-BL-SCP-EH



HOUSING	VERSION	WATTAGE	CCT/CRI	DISTRIBUTION	VOLTAGE	FINISH	CONTROL OPTIONS	OPTIONS
TRP1 Trapezoid	12L 12 LEDs	15 15 watts	3K7 3000K, 70CRI	2 Type II	U 120-277	BL Black	PCU Button Photocell	F <sup>4</sup> Fusing (only available with STD fixture configuration, 120-277V only)
RD11 Radius		20 20 watts	4K7 4000K, 70CRI	3 Type III	1 120	DB Bronze	SCP <sup>2,3</sup> Programmable Motion Sensor	E <sup>1</sup> Battery Pack (0°C)
QSP1 Quartersphere		30 30 watts	5K7 5000K, 70CRI	4 Type IV	2 208 3 240 4 277	GR Gray PS Platinum WH White CC Custom	<b>SPECIFY SCP HEIGHT</b> 8F Up to 8ft mount height 20F Up to 20ft mount height	EH <sup>1</sup> Battery Pack (-30°C) with heater

<sup>1</sup> Voltage specific (120 or 277V only)  
<sup>2</sup> Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only  
<sup>3</sup> PCU option not applicable, included in sensor  
<sup>4</sup> Must specify input voltage (120, 208, 240 or 277)



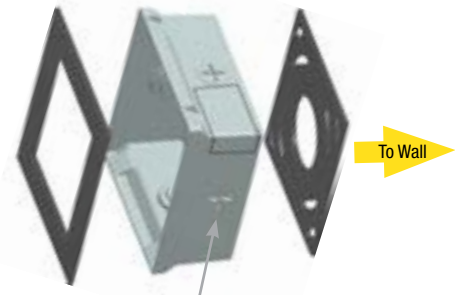
Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000  
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.  
 © 2016 HUBBELL OUTDOOR LIGHTING, All Rights Reserved • For more information visit our website: [www.hubbelloutdoor.com](http://www.hubbelloutdoor.com) • Printed in USA

**ACCESSORIES - Order separately**

Catalog Number	Description
SCP-REMOTE <sup>2</sup>	Remote control for SCP option. Order at least one per project to program and control.
BB-GEO-XX	Back box with 4 - 1/2" threaded conduit holes, specify finish by replacing "XX" with finish selection, eg. Dark Bronze "DB"

<sup>2</sup> Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120V-277V only

BB-GEO-XX



Fixture gasket 4 - 1/2" conduit entries Wall gasket



BB-GEO-XX – Mounted to luminaire

**PERFORMANCE DATA (AC/Standard Configurations)**

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
12	350mA	13.9	2	1635	118	1	1	1	1577	113	1	1	1	1497	108	1	1	1
			3	1613	116	1	0	1	1556	112	1	0	1	1477	106	1	0	1
			4	1607	116	0	0	1	1550	111	0	0	1	1471	106	0	0	1
			2	2268	114	1	1	1	2176	109	1	1	1	2077	104	1	1	1
	500mA	19.9	3	2245	113	1	0	1	2140	108	1	0	1	2049	103	1	0	1
			4	2229	112	0	0	1	2150	108	0	0	1	2041	103	0	0	1
			2	2942	104	1	1	1	2885	102	1	1	2	2721	96	1	1	1
			3	2912	103	1	0	1	2836	101	1	0	1	2685	95	1	0	1
	700mA	28.2	4	2892	103	1	0	1	2789	99	1	0	1	2674	95	1	0	1

**Electrical Data**

**Input Power Consumption**

Drive Current (mA)	Input Voltage (V)	System Power (w)	Current (Amps)
350mA	120	13.9	0.12
	277		0.05
500mA	120	19.9	0.17
	277		0.07
700mA	120	28.2	0.24
	277		0.10

Battery backup units consume additional power during charging (maximum 32.2 watts for E, 50.7 watts for EH)

**Projected Lumen Maintenance**

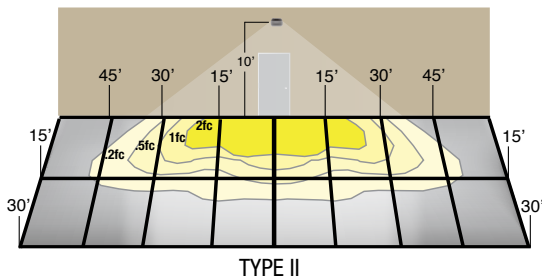
Ambient Temp.	Operating Hours					L70 (hours)
	0	25,000	50,000	TM-21-11 <sup>1</sup> 60,000	100,000	
25°C/77°F	1.00	0.98	0.97	0.95	0.91	>345,000
40°C/104°F	1.00	0.96	0.95	0.92	0.87	>268,000

**LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)**

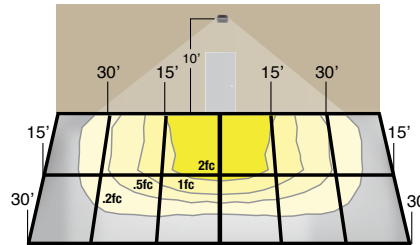
AMBIENT TEMPERATURE	LUMEN MULTIPLIER	
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.98

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

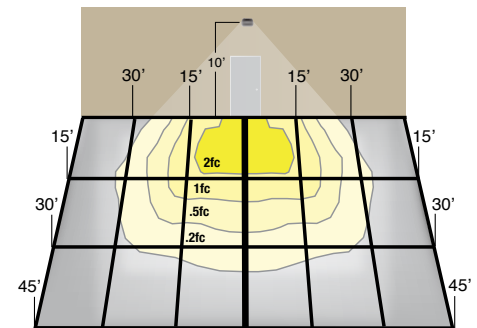
**PHOTOMETRIC REPORTS**



TYPE II



TYPE III



TYPE IV (Forward throw)

## GeoPak - Battery Back Up

Functional Circuitry: Transient surge protection device on AC input. Upon failure of the normal utility power, an LED driver is automatically activated to power the emergency LEDs. Upon resumption of normal utility power, the LED driver is turned off, and the battery is recharged through a micro-controller based 3-stage charger. The battery is a maintenance-free Lithium Iron Phosphate (LiFePo) type. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button. The optional heater features a heating wrap and thermostat to maintain optimal battery temperature during charge or discharge. The GeoPak includes the following features:

- Battery re-charge within 24 hours
- AC Lock-out circuit
- Self-diagnostics monitors LED status, LED driver circuit, battery capacity and charger function and displays any fault detection by means of a flashing code.

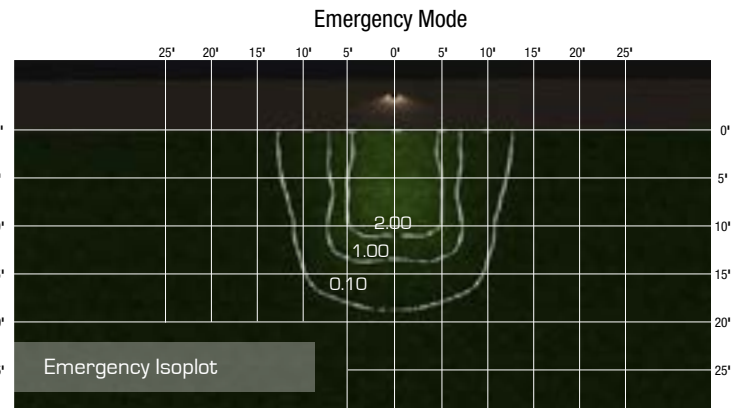
### Emergency Photometric Performance (1 fc average .1 fc minimum)

28' multi-unit spacing at 10' MH with 0/30/10 reflectances on a 6' path

26' x 10' single unit coverage at 10' MH with 0/30/10 reflectances

6' x 19' forward throw coverage at 10' MH with 0/30/10 reflectances

- Self-Test feature runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status.
- User initiated 1, or 90-minute system test feature
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage).



Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions.

Diagrams for illustration purposes only, please consult factory for application layout.