JOB _____    TYPE _____

NOTES _____    APPROVALS _____

## FEATURES

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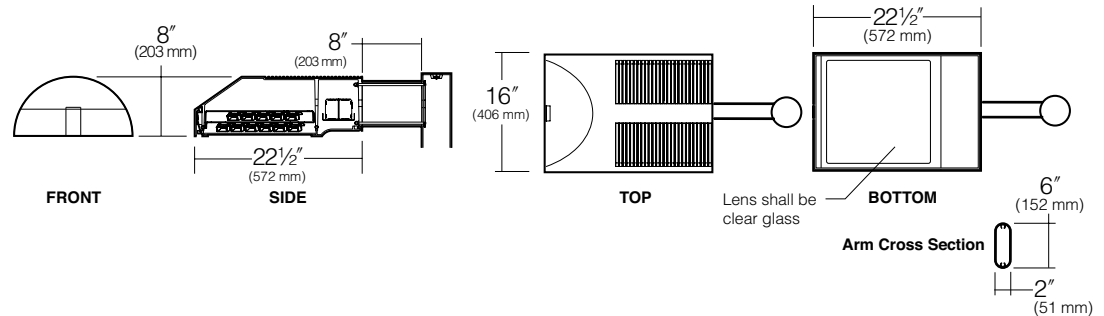- 0-10V dimming drivers standard
- IP66 certified

## Certifications

c UL us LISTED | ida DARK SKY APPROVED 2016 | DLC QPL LISTED

3000K and warmer CCTs only

## SPECIFICATIONS



8″ (203 mm)   8″ (203 mm)   16″ (406 mm)   22½″ (572 mm)   22½″ (572 mm)   6″ (152 mm)   2″ (51 mm)

FRONT   SIDE   TOP   Lens shall be clear glass   BOTTOM   Arm Cross Section

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

## ORDERING CODE

| Configuration | | EPA |
|---|---|---|
| 1A | 1 Arm Side Mt. | 1.20 |
| 2B | 2 Arm Side Mt. | 2.40 |
| 2L | 2 Arm Side Mt. | 2.00 |
| 3T | 3 Arm Side Mt. | 3.20 |
| 3Y* | 3 Arm Side Mt. | 3.20 |
| 4C | 4 Arm Side Mt. | 3.90 |
| 1W | Single Wall Mt. | n/a |
| HSF | Horz. Slipfitter | n/a |

*Available round poles only. EPA is for Fixture only

### Fixture

**Distribution**
AR1 Type I
AR2 Type II
AR3 Type III
AR4 Type IV
AR5 Type V
ARR Type R, Right
ARL Type L, Left

**Drive Current**
E35 350mA PicoEmitter

### Electrical Module

**Source**
120L 120 LEDs, 129W

**Color Temperature[2]**
2K 580nm[3]
3K 3000K
4K 4000K
5K 5000K

**Voltages**
120 120V
208 208V
240 240V
277 277V
347 347V[4]
480 480V[4]

### Fixture Finish
BL Black
DB Dark Bronze
GT Graphite
LG Light Gray
PS Platinum Silver
TT Titanium
WH White
CC Custom Color*

*Consult Representative

### Photocell Options
A25-7 7-pin Photocell Receptacle
A30 120V Button Photocell
A31 208V Button Photocell
A32 240V Button Photocell
A33 277V Button Photocell
A34 480V Button Photocell
A35 347V Button Photocell

### Fuse Options
SF 120, 277, 347 Line Volts
DF 208, 240, 480 Line Volts

### Lens Options
LS Polycarbonate Lens[5]

### NFO Option
NFO Neighbor Friendly Optic*

*Photometry available for Type III/IV. All others, consult factory.

### Other Options
TL Tamper Resistant Latch

### Controls

**Wireless**
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.

**Motion**
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.)
SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)

**Side Arm Mount**
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/
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.*

**KIM LIGHTING**
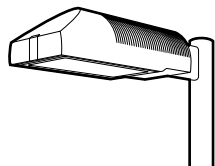
# Lumen Data

| 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 to download the most current photometric files from Kim Lighting's IES File Library.For custom optics and color temperature configurations, contact factory.

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**HUBBELL** Lighting

# KIM LIGHTING

## SPECIFICATIONS

### Housing:

- 0ne-piece die-cast, low copper (<0.6% Cu) aluminumalloy with integral cooling ribs over the optical chamber and electricalcompartment.

- 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.

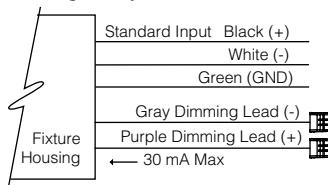- Anodized aluminum carrier plate and heat sink modules.

### 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).



Fixture Housing
Standard Input Black (+)
White (-)
Green (GND)
Gray Dimming Lead (-)
Purple Dimming Lead (+)
← 30 mA Max

### 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.hubbelllighting.com/resources/warranty

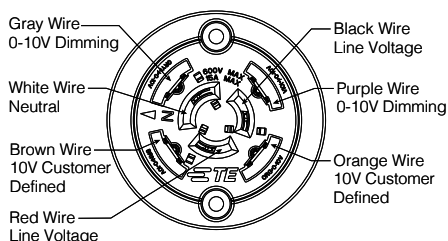*Kim Lighting reserves the right to change specifications without notice.*

## 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.

Gray Wire 0-10V Dimming

White Wire Neutral

Brown Wire 10V Customer Defined

Red Wire Line Voltage

Black Wire Line Voltage

Purple Wire 0-10V Dimming

Orange Wire 10V Customer Defined

#### 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[1]/277[2]/BL[3]

#### 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[2]/BL[3]

#### 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[1]/277[2]/BL[3]

#### 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[2]/BL[3]

#### SCP

The SCP is a photo-control with motion sensing accessory thats 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

[1]Pole Diameter, [2]Voltage, [3]Color

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## 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.
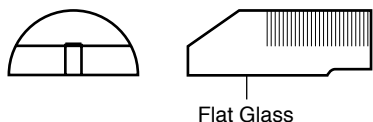
4$^1$/$_4$"
10$^1$/$_4$"
5$^3$/$_{16}$"
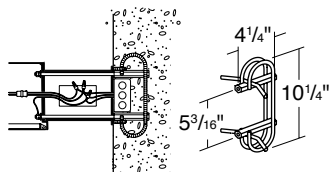
Wall mount using wall embedment bracket - J-box in wall (by others)

### 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.

Davit-arm with 2" pipe-size fixture mount (by others)

Horizontal Slipfitter Mount by Kim
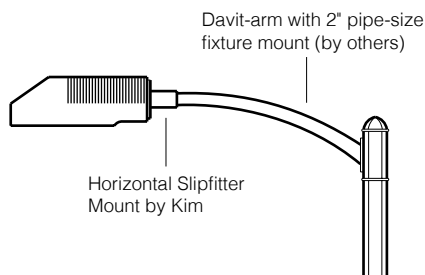
### Vertical Slipfitter Mount:

■ 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.

Vertical Slipfitter Mount by Kim

Pole with 2" pipe-size tenon (by others)
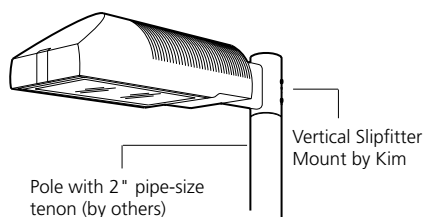
**NOTE:** 3Y only available on round slipfitter.

stainless steel set screws

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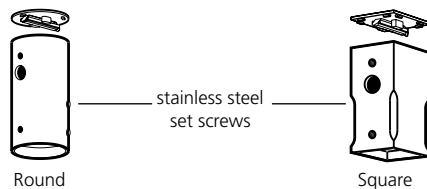
| Cat. No. | Mounting Configuration | Cat. No. |
|----------|------------------------|----------|
| VSF-1A | 1A - single arm mount | SVSF-1A |
| VSF-2B | 2B - 2 at 180° | SVSF-2B |
| VSF-2L | 2L - 2 at 90° | SVSF-2L |
| VSF-3T | 3T - 2 at 90° | SVSF-3T |
| VSF-3Y | 3Y - 2 at 120° | SVSF-4C |
| VSF-4C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

### Neighbor Friendly Optic

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

### 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 locationswhere fixtures can be reached by unauthorized persons.

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