

JOB _____ TYPE _____
NOTES _____ APPROVALS _____

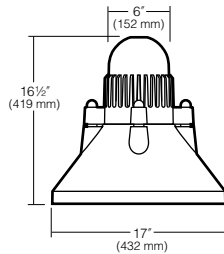
FEATURES

- Full Cutoff PicoEmitter technology
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5, R & L distributions
- 0-10V dimming drivers standard
- Sealed optical chamber, IP66 certified

Certifications



SPECIFICATIONS



Approx. Weight = 37 lbs. EPA 0.8 for 1A.
See Configuration for Additional EPAs.

Side View

ORDERING CODE

Configuration	EPA	Fixture		Electrical Module			Fixture Finish	Photocell Options															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%; text-align: center;">1A</td><td>1 Arm Side Mt.</td><td style="text-align: center;">0.8</td></tr> <tr><td style="text-align: center;">2B</td><td>2 Arm Side Mt.</td><td style="text-align: center;">1.6</td></tr> <tr><td style="text-align: center;">3Y</td><td>3 Arm Side Mt.</td><td style="text-align: center;">2.4</td></tr> <tr><td style="text-align: center;">4C</td><td>4 Arm Side Mt.</td><td style="text-align: center;">2.8</td></tr> <tr><td style="text-align: center;">1W</td><td>Single Wall Mt.</td><td style="text-align: center;">n/a</td></tr> </table>	1A	1 Arm Side Mt.	0.8	2B	2 Arm Side Mt.	1.6	3Y	3 Arm Side Mt.	2.4	4C	4 Arm Side Mt.	2.8	1W	Single Wall Mt.	n/a		RA17	<u>Distribution</u>	<u>Drive Current</u>	<u>Source</u>	<u>Color Temperature¹</u>	<u>Voltagess</u>	
1A	1 Arm Side Mt.	0.8																					
2B	2 Arm Side Mt.	1.6																					
3Y	3 Arm Side Mt.	2.4																					
4C	4 Arm Side Mt.	2.8																					
1W	Single Wall Mt.	n/a																					
			1 Type I	E35	350mA PicoEmitter	60L 60 LEDs, 68 W	2K 580nm ²	A30 120V Button Photocell															
			2 Type II			3K 3000K	120 120V	A31 208V Button Photocell															
			3 Type III			4K 4000K	208 208V	A32 240V Button Photocell															
			4 Type IV			5K 5000K	240 240V	A33 277V Button Photocell															
			5 Type V				277 277V	A34 480V Button Photocell															
			R Type R Right				347³ 347V	A35 347V Button Photocell															
			L Type L Left				480³ 480V																

NOTE: EPA is for Fixture only

Fuse Options	Lens Options	NFO Option	Control Options	Arm Type			
SF 120, 277, 347 Line Volts	LS Polycarbonate Lens ⁴	NFO Neighbor Friendly Optic [*]	Wireless WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities	<u>Pole Arm</u>	<u>Pole Tenon Mount</u>	<u>Wall Mount</u>	<u>Style</u>
DF 208, 240, 480 Line Volts		<small>*Photometry available for Type III/IV. All others, consult factory.</small>	<u>Motion</u> 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'	HA01S	HA01S-TM1	HA02S-W	Post Top Crook Side Pole Crook
				HA02S	HA02S-TM1, HA02S-TM2, HA02S-TM3, HA02S-TM4		
				HA03S	HA03S-TM1, HA03S-TM2, HA03S-TM3, HA03S-TM4		Post Top Swept Cast Arm
				HA11S	HA11S-TM1, HA11S-TM2, HA11S-TM3, HA11S-TM4	HA11S-W	Side Pole Swept Cast Arm
				HA12S	HA12S-TM1, HA12S-TM2, HA12S-TM3, HA12S-TM4	HA12S-W	Side Pole S-Shaped Up Cast Arm
				HA14S	HA14S-TM1, HA14S-TM2, HA14S-TM3, HA14S-TM4	HA14S-W	Side Pole Neo-Classic Arm
				HA31S	HA31S-TM1, HA31S-TM2, HA31S-TM3, HA31S-TM4	HA31S-W	Side Pole Arm w/Top Scroll
				HA33S	HA33S-TM1, HA33S-TM2, HA33S-TM3, HA33S-TM4	HA33S-W	Side Pole Ribbon Arm w/Top Gusset
				HA35S	HA35S-TM1	HA35S-W	Side Pole Ribbon Arm w/Top Brace
				HA37S	HA37S-TM1	HA37S-W	Side Pole Ribbon w/Top Brace, Bottom Scroll
				HA38S	HA38S-TM1	HA38S-W	Side Pole Ribbon w/Top Brace, Bottom Gusset
				Arm Finial HAF02			

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
For Control Spec Select: <http://trpssl.com/index.html>

¹ For custom optics and color temperature configurations, contact factory.
² Turtle friendly. Maximum 500mA drive current for 2K amber option.
³ 347V & 480V currents may be supplied with step-down transformer.
⁴ Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
⁵ Specify pole diameter if round, voltage and color, e.g. SCL-R4/277/BL.

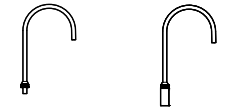
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Arm Options

Note: Refer to Kim Lighting's Arms and Poles Specification Guide for EPA information and additional information on arm, tenon and wall mounting.
1W Wall Mount arm is not included and must be ordered separately.

Post Top Crook¹

ARM Tenon Mount Wall Mt

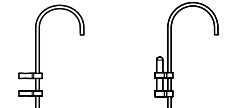


HA01S HA01S-TM1

Mounting: 1SA

Side Pole Crook¹

ARM Tenon Mount Wall Mt

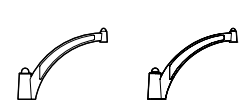


**HA02S HA02S-TM1
HA02S-TM2
HA02S-TM3
HA02S-TM4 HA02S-W**

Mounting: 1SA 2SB 3SY 4SC

Post Top Swept Cast Arm¹

ARM Tenon Mount Wall Mt

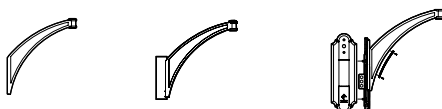


**HA03S HA03S-TM1
HA03S-TM2
HA03S-TM3
HA03S-TM4**

Mounting: 1SA 2SB 3SY 4SC

Side Pole Swept Cast Arm

ARM Tenon Mount Wall Mt

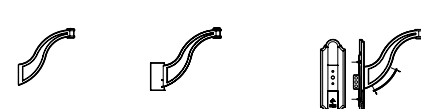


**HA11S HA11S-TM1
HA11S-TM2
HA11S-TM3
HA11S-TM4**

Mounting: 1SA 2SB 3SY 4SC

Side Pole S-Shaped Up Cast Arm

ARM Tenon Mount Wall Mt



**HA12S HA12S-TM1
HA12S-TM2
HA12S-TM3
HA12S-TM4 HA12S-W**

Mounting: 1SA 2SB 3SY 4SC

Side Pole Neo-Classic Arm¹

ARM Tenon Mount Wall Mt



**HA14S HA14S-TM1
HA14S-TM2
HA14S-TM3
HA14S-TM4 HA14S-W**

Mounting: 1SA 2SB 3SY 4SC

Side Pole Arm w/Top Scroll

ARM Tenon Mount Wall Mt

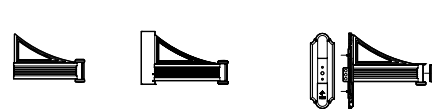


**HA31S HA31S-TM1
HA31S-TM2
HA31S-TM3
HA31S-TM4**

Mounting: 1SA 2B 3Y 4C

Side Pole Ribbon Arm w/Top Gusset

ARM Tenon Mount Wall Mt

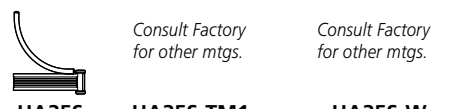


**HA33S HA33S-TM1
HA33S-TM2
HA33S-TM3
HA33S-TM4 HA33S-W**

Mounting: 1SA 2SB 3SY 4SC

Side Pole Ribbon Arm w/Top Brace

ARM Tenon Mount Wall Mt

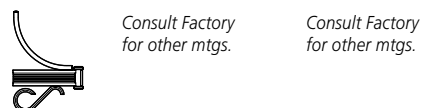


HA35S HA35S-TM1 HA35S-W

Mounting: 1SA 2SB 3SY 4SC

Side Pole Ribbon Arm w/Top Brace & Bottom Scroll

ARM Tenon Mount Wall Mt

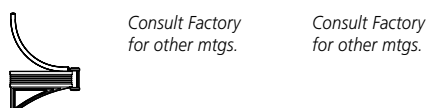


HA37S HA37S-TM1 HA37S-W

Mounting: 1SA 2SB 3SY 4SC

Side Pole Ribbon Arm w/Top Brace & Bottom Gusset

ARM Tenon Mount Wall Mt



HA38S HA38S-TM1 HA38S-W

Mounting: 1SA 2SB 3SY 4SC

Arm Finial

HAF02 Traditional style finial available to close off mounting hub opposite fixture.



¹Not available on arm where indicated.

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

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	94.63%	783,000 Hrs.

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	0.57	68
208	0.33	68
240	0.28	68
277	0.25	68
347	0.20	68
480	0.14	68

B.U.G. Rating (TM15) in Lumens when 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	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
4000K	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5000K	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 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	6204	6361	6316	5218	6375	5292	6379	TBD
4000K	6363	6524	6478	5352	6538	5428	6543	TBD
5000K	6436	6599	6552	5413	6613	5490	6618	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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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.

Neighbor Friendly Optic

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

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. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

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.

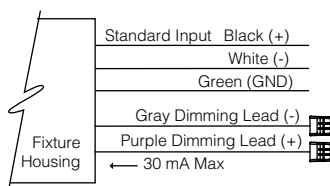
Electrical Characteristics:

- 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 using 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.
- RoHS compliant.
- 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>

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CONTROLS

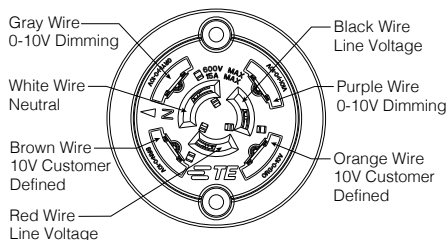
Photocell Receptacle

A25-7

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

Standard customer operation modes:

1. (Black and Red leads) Traditional on/off photoelectric control.
2. (Gray and Purple leads) 0-10V dimming, 5-pin wireless photoelectric control for added dimming feature.
3. (Brown and Orange leads) 10V 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, **A34** for 480V, **A34** for 347V,

Factory installed photocell inside 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.

Wireless Control

Hubbell Building Automation’s wiSCAPE™ In-Fixture Module is a bidirectional 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 adapts easily to complex automation situations for quick, simple and economical commissioning. On-Fixture Module is compatible with A-25-7 option.

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.

Pole Mounted

Round Pole-Mounted Occupancy Sensor up to 16’

SCL-R

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

Ordering Example: SCL-R4¹/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 16’

SCL-S

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

Ordering Example: SCL-L/277²/BL³

Round Pole-Mounted Occupancy Sensor 16’ to 30’

SCH-R

Round Pole Mounted Occupancy Sensor up to 30’ - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for round pole mounting. Pole diameter needed. Pole to be drilled in the field with provided installation instructions.

Ordering Example: SCH-R4¹/277²/BL³

Square Pole-Mounted Occupancy Sensor 16’ to 30’

SCH-S

Square Pole Mounted Occupancy Sensor up to 30’ - Outdoor occupancy sensor with 0-10V interface dimming control mounts directly to the pole. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for square pole mounting.

Ordering Example: SCH-S/277²/BL³

¹Pole Diameter, ²Voltage, ³Color

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