KIM LIGHTING

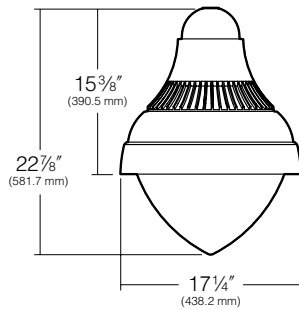| JOB		TYPE	
NOTES		APPROVALS	

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

c UL us LISTED

DLC QPL LISTED

SPECIFICATIONS

Approx. Weight = 31 lbs. EPA 0.6 for 1A.
See Configuartion for Additional EPAs.

15⅜" (390.5 mm)

22⅞" (581.7 mm)

17¼" (438.2 mm)

ORDERING CODE

Configuration		EPA
1A	1 Arm Side Mt.	0.6
2B	2 Arm Side Mt.	1.2
3Y	3 Arm Side Mt.	1.8
4C	4 Arm Side Mt.	2.1
1W	Single Wall Mt.	n/a

NOTE: EPA is for Fixture only

Fixture

AE17

Distribution		Drive Current	
1	Type I	E35	350mA PicoEmitter
2	Type II		
3	Type III		
4	Type IV		
5	Type V		
R	Type R Right		
L	Type L Left		

Electrical Module

Source		Color Temperature¹		Voltages	
60L	60 LEDs, 68 W	2K	580nm²	UV	120-277V
		3K	3000K	120	120V
		4K	4000K	208	208V
		5K	5000K	240	240V
				277	277V
				347³	347V
				480³	480V

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

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 Lens⁴

NFO Option

NFO	Neighbor Friendly Optic*

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

Control Options

Wireless

WIR-RMI-IO	120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities

Motion

SCH-R	Round Pole Mounted Occupancy Sensor up to 30'
SCH-S	Square Pole Mounted Occupancy Sensor up to 30'

Mounting Options

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

Arm Options

Pole Arm	Pole Tenon Mount	Wall Mount	Style
HA01S	HA01S-TM1		Post Top Crook
HA02S	HA02S-TM1, HA02S-TM2, HA02S-TM3, HA02S-TM4	HA02S-W	Side Pole Crook
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.
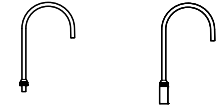
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Arm Options

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.
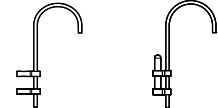

Post Top Crook[1]

ARM	Tenon Mount	Wall Mt
HA01S	HA01S-TM1	

Mounting: 1SA

Side Pole Crook[1]

ARM	Tenon Mount	Wall Mt
HA02S	HA02S-TM1	HA02S-W
	HA02S-TM2	
	HA02S-TM3	
	HA02S-TM4	

Mounting: 1SA   2SB   3SY   4SC

Post Top Swept Cast Arm[1]

ARM	Tenon Mount	Wall Mt
HA03S	HA03S-TM1	
	HA03S-TM1	
	HA03S-TM1	
	HA03S-TM1	
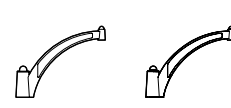
Mounting: 1SA   2SB   3SY   4SC

Side Pole Swept Cast Arm

ARM	Tenon Mount	Wall Mt
HA11S	HA11S-TM1	HA11S-W
	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-W
	HA12S-TM2	
	HA12S-TM3	
	HA12S-TM4	
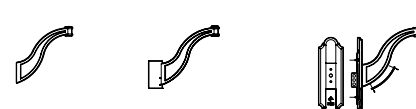
Mounting: 1SA   2SB   3SY   4SC

Side Pole Neo-Classic Arm[1]

ARM	Tenon Mount	Wall Mt
HA14S	HA14S-TM1	HA14S-W
	HA14S-TM2	
	HA14S-TM3	
	HA14S-TM4	
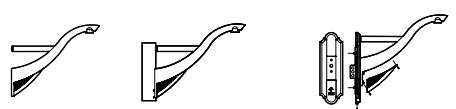
Mounting: 1SA   2SB   3SY   4SC

Side Pole Arm w/Top Scroll

ARM	Tenon Mount	Wall Mt
HA31S	HA31S-TM1	HA31S-W
	HA31S-TM2	
	HA31S-TM3	
	HA31S-TM4	
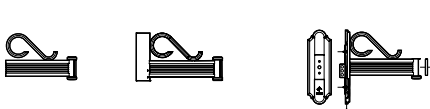
Mounting: 1SA   2B   3Y   4C

Side Pole Ribbon Arm w/Top Gusset

ARM	Tenon Mount	Wall Mt
HA33S	HA33S-TM1	HA33S-W
	HA33S-TM2	
	HA33S-TM3	
	HA33S-TM4	

Mounting: 1SA   2SB   3SY   4SC

Side Pole Ribbon Arm w/Top Brace
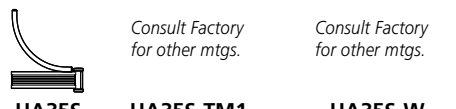
ARM	Tenon Mount	Wall Mt
	Consult Factory for other mtgs.	*Consult Factory for other mtgs.*
HA35S	HA35S-TM1	HA35S-W

Mounting: 1SA   2SB   3SY   4SC

Side Pole Ribbon Arm w/Top Brace & Bottom Scroll
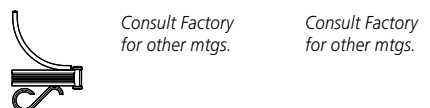
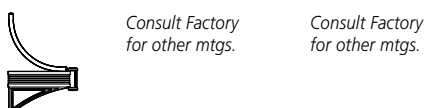| ARM	Tenon Mount	Wall Mt
	Consult Factory for other mtgs.	*Consult Factory for other mtgs.*
HA37S	HA37S-TM1	HA37S-W

Mounting: 1SA   2SB   3SY   4SC

Side Pole Ribbon Arm w/Top Brace & Bottom Gusset

ARM	Tenon Mount	Wall Mt
	Consult Factory for other mtgs.	*Consult Factory for other mtgs.*
HA38S	HA38S-TM1	HA38S-W

Mounting: 1SA   2SB   3SY   4SC

Arm Finial

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

[1]Not available on arm where indicated.

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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	94.10%	695,000 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 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 U2 G2	B1 U2 G1	TBD	B1 U2 G2	B0 U2 G1	B2 U2 G1	TBD
4000K	TBD	B2 U2 G2	B2 U2 G2	TBD	B1 U2 G2	B0 U2 G2	B2 U2 G1	TBD
5000K	TBD	B2 U2 G2	B2 U2 G2	TBD	B1 U2 G2	B0 U2 G2	B2 U2 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	4815	4738	TBD	4784	3987	4834	TBD
4000K	TBD	6310	6210	TBD	6270	5225	6336	TBD
5000K	TBD	6687	6581	TBD	6645	5537	6714	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:

- 0ne-piece die-cast, low copper (<0.6% Cu) aluminumalloy 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 distibutions.

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.
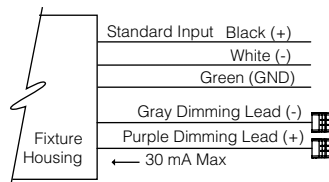
Electrical Characteristics:

- 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).

Standard Input	Black (+)
	White (-)
	Green (GND)
	Gray Dimming Lead (-)
Fixture Housing	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.

- RoHS compliant.

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

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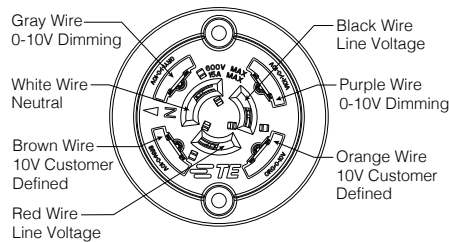
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CONTROLS

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.

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, **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 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-R4[1]/277[2]/BL[3]

Square Pole-Mounted Occupancy Sensor up 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/277[2]/BL[3]

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

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