KIM LIGHTING®

BE21
21" ERA® BELL PICOEMITTER® LED

FEATURES

- PicoEmitter® technology[1]
- 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

3000K and warmer CCTs only

SPECIFICATIONS

Approx. Weight = 46 lbs. EPA 0.8 for 1A.
See Configuration for Additional EPAs.

19 5/16″ (490.5 mm)

21″ (533.4 mm)

ORDERING CODE

Configuration		EPA
1A	1 Arm Side Mt.	0.8
2B	2 Arm Side Mt.	1.6
3Y*	3 Arm Side Mt.	2.4
4SC	4 Arm Side Mt.	2.8
1W	Single Wall Mt.	n/a

*Available round poles only. EPA is for Fixture only

Fixture

Fixture	Distribution	Drive Current
BE21	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 Temperature[2]	Voltages
120L 120 LEDs	2K 580nm[3]	UV 120-277V
	3K 3000K	120 120V
	4K 4000K	208 208V
	5K 5000K	240 240V
		277 277V
		347[4] 347V
		480[4] 480V

Fixture Finish

BLS	Black Gloss Smooth
BLT	Black Matte Textured
DBS	Dark Bronze Gloss Smooth
DBT	Dark Bronze Matte Textured
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Matte Textured
PSS	Platinum Silver Gloss Smooth
VGT	Verde Green Matte Textured
WHS	White Gloss Smooth
WHT	White Matte Textured
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 Lens[5],[6]

NFO Option

NFO Neighbor Friendly Optic, photometry available for Type III/IV. All others, consult factory

Controls

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'

Arm Type [7]

Pole Arm	Pole Tenon Mount	Wall Mount	Style
HA03L	HA03L-TM1, HA03L-TM2, HA03L-TM3, HA03L-TM4	HA11L-W	Side Pole Swept Cast Arm
HA11L	HA11L-TM1, HA11L-TM2, HA11L-TM3, HA11L-TM4	HA12L-W	Side Pole S-Shaped Up Cast Arm
HA12L	HA12L-TM1, HA12L-TM2, HA12L-TM3, HA12L-TM4	HA14L-W	Side Pole Neo-Classic Arm
HA14L	HA14L-TM1, HA14L-TM2, HA14L-TM3, HA14L-TM4		

Mounting Options

HA Arm

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[1] US Patent No. D674,965 S. Other patents pending.
[2] For custom optics and color temperature configurations, contact factory.
[3] Turtle friendly.
[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.
[7] Era does not come standard with an arm and the arm is not included in the fixture price. One must be chosen to mount the Era fixture

Kim Lighting reserves the right to change specifications without notice.

Current®

currentlighting.com/kimlighting

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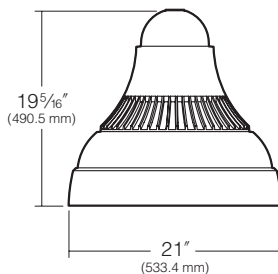
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Arm Options

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. Era does not come standard with an arm and the arm is not included in the fixture price. One must be chosen to mount the Era fixture
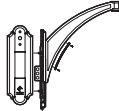
Post Top Swept Cast Arm¹

ARM　　　Tenon Mount　　　Wall Mt

HA03L　　**HA03L-TM1**
　　　　　　HA03L-TM1
　　　　　　HA03L-TM1
　　　　　　HA03L-TM1

Mounting:　　1A　　2B　　3Y　　4C

Side Pole Swept Cast Arm

ARM　　　Tenon Mount　　　Wall Mt

HA11L　　**HA11L-TM1**　　**HA11L-W**
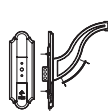　　　　　　**HA11L-TM2**
　　　　　　HA11L-TM3
　　　　　　HA11L-TM4

Mounting:　　1A　　2B　　3Y　　4C

Side Pole S-Shaped Up Cast Arm

ARM　　　Tenon Mount　　　Wall Mt

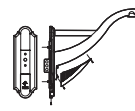**HA12L**　　**HA12L-TM1**　　**HA12L-W**
　　　　　　HA12L-TM2
　　　　　　HA12L-TM3
　　　　　　HA12L-TM4

Mounting:　　1A　　2B　　3Y　　4C

Side Pole Neo-Classic Arm¹

ARM　　　Tenon Mount　　　Wall Mt

HA14L　　**HA14L-TM1**　　**HA14L-W**
　　　　　　HA14L-TM2
　　　　　　HA14L-TM3
　　　　　　HA14L-TM4

Mounting:　　1A　　2B　　3Y　　4C

Arm Finial

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

¹Not available on arm where indicated.

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	50,000 hrs	100,000 hrs
350	95.89%	90.09%

Electrical Drive Current @ 350mA		
Volts - AC	Amps - AC	System Watts
120	1.07	128
208	0.62	128
240	0.53	128
277	0.46	128
347	0.37	128
480	0.27	128

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 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5000K	TBD	B2 U0 G4	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	7899	7818	6391	7754	6509	8240	TBD
4000K	TBD	10177	10072	8234	9990	8387	10616	TBD
5000K	TBD	10910	10798	8827	10710	8991	11381	TBD

LED performance and lumen output continues to improve at a rapid pace.
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.
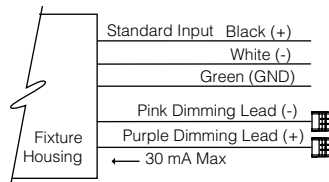- Anodized aluminum carrier plate and heat sink modules.

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 Pink lead as the negative (-) to an available control signal (by others).

Standard Input   Black (+)
White (-)
Green (GND)
Pink Dimming Lead (-)
Purple Dimming Lead (+)
Fixture Housing
← 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.

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, 3000k and warmer CCTs only.
- 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.

Current®

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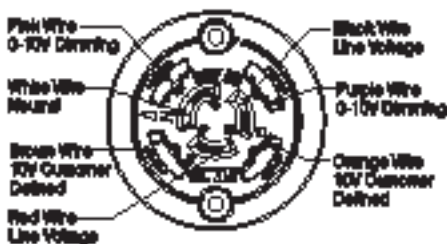### CONTROLS

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.

Wireless Control

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.

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

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