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				E I	MINAL	LUMINAIRE SCHEDULE	EDULE			
TYPE	E DESCRIPTION	MOUNTING LAMPS	LAMPS	WATTS / LUMINAIRE	VOLTAGE	VOLTAGE EMERGENCY	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS	NOTES
18	BOLLARD LUMINAIRE, LED SOURCE, DIE-CAST ALUMINUM HOUSING, STRAIGHT SHAFT, DARK BRONZE FINISH	SEE DETAIL	LED ENGINE, 27 4000K	29	772	N/A	KIM LIGHTING	BNB1-27L5KUV-DB	PRE-BID APPROVED EQUAL	
P1	POLE LIGHT, LED SOURCE, FLAT GLASS LENS, TYPE V DISTRIBUTION, SPUN ALUMINUM HOUSING WITH REVEALS, DARK BRONZE FINISH, WITH STRAIGHT ROUND STEEL POLE, 20', DARK BRONZE FINISH	SEE DETAIL	LED ENGINE, 10862 LUMEN 4000K	120	772	N/A	KIM LIGHTING	HEAD NO. CC-21-A-5-250-120L-4K-277-DB-DBREV PPOLE NO. KRS20-4120-A-DB	PRE-BID APPROVED EQUAL	
P2	POLE LIGHT, PEDESTRIAN TYPE, LED SOURCE, FLAT GLASS LENS, TYPE II DISTRIBUTION, SPUN ALUMINUM HOUSING WITH REVEALS, DARK BRONZE FINISH, WITH STRAIGHT ROUND STEEL POLE, 14°, DARK BRONZE FINISH.	SEE DETAIL	LED ENGINE, 3414 LUMEN	99	7.1.7	N/A	KIM LIGHTING	HEAD NO. CC-17-A-2-60-4K-277-DB-DBREV PPOLE NO. KRS14-4120-A-DB	PRE-BID APPROVED EQUAL	
	LUMINAIRE SCHEDULE NOTES:									

Bounce Bollard

KIM LIGHTING

KIM	LIGHTIN	G				revision 5/31/11 • bnb.pc
Type Job: Cata	: log number:					Approvals:
2	1	1	1			
Fixture	Electrical Module	Luminaire Finish	Options	See page 5	ļ	Date: Page: 1 of 5

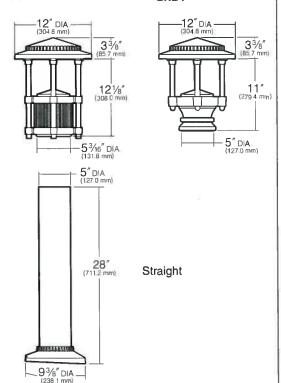
Specifications

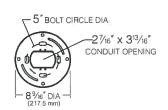
BNB1 and BNB4

70 to 100 watt PMH 70 to 100 watt HPS Medium Base Lamps 42 watt Compact Fluorescent 18, 27 or 36 LED

BNB1

BNB4







Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. ³/₁₆" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

Body Support: BNB1: Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through diecast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB4:** Heavy cast low copper (<0.6% Cu) aluminum alloy wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods. is channeled through the support rods.

Body Cap: Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

Shaft: One-piece aluminum extrusion, .125" minimum wall thickness and two internal 3/6"-16 mounting rods sandwich shaft between base and head.

Anchor Base Plate: A heavy cast aluminum anchor base is provided for mounting to the four 3/8" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

Electrical Module: Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. LED: A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

LED Driver: Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a $\pm 10\%$ tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

Finish/Color: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom

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.

Listings	and Ratings		
ETL ¹ to UL Standards 1598 & 8750	IP46 Rated	CE	25C Ambient
(FCO)	Full Cutoff ²		

'Suitable for wet locations ²Dark Sky Legislation Compliant

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BNB Bounce Bollard revision 5/31/11 • bnb.pdf

Type:

Job:

Page: 4 of 5



Standard Features

Fixture	Cat. No.	BNB1	BNB2	BNB3	BNB4	BNB5	BNB6
Electrical Module	Cat. Nos. for	Electrica	I Modules	available:			
PMH = Pulse Start Metal Halide HPS = High Pressure Sodium PL = Compact Fluorescent LED = Light Emitting Diode Lamp Lamp Line Watts Type Volts 70 PMH 120 For PMH, HPS and PL. See footnote 2 below for LED	Lamp Socket ANSI Ballast Type	☐ 70PM☐ 70PM☐ 70PM☐ 70PM☐ 70PM☐ 70PM☐ 70PM☐ 6D-17, ☐ Medium M-98, № Compac☐ 42PL☐ 4	MH277 MH347 Coated in Base M-143 ct Fluor. .1201 .2081	Ilide 100PMH120 100PMH240 100PMH240 100PMH277 100PMH347 ED-17, Coated Medium Base M-90, M-140 LED 18L3KUV²	7 7 7 7 ED-1 Med S62	Pressure Soc OHPS120 OHPS208 OHPS240 OHPS277 OHPS347 17, Coated lium Base	100HPS120
	Lamp	Gampa		IES Type 1	LED	ES Type 3	IES Type 5
NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.	142PL operates NOTE: Coated 2For LED, 18L =	lamps are 18 LED En	4 , or 42 watt lan recommended. nitters; 27L = 2	N/A np at 120 thru 2 <i>7</i> 7 ve	N/A olts (50-60 Hz) = 36 LED Emit	ters; 3K = 3500k	N/A color temperature;
Luminaire Finish Super TGIC powder coat paint over a titanated zirconium conversion coating on fixture and shaft.	Consult repr	BL Dors subjectesentativ	ct to additice. Custom c	LG SG mal charges, mir olor description:	•	ntities and ex	hite Custom Color³ WH □ CC tended lead times.



BNB
Bounce Bollard
revision 5/31/11 • bnb.pdf

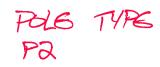
Type: Job:

Page: 5 of 5



Optional Features

Fusing (internal only): Cat. No. (see chart at right) No Option	High temperature fuse holders factory installed inside the fixture housing. Fuse is included. Line Volts: 120V 208V 240V 277V 347V Cat. No.: SF DF DF SF SF
Houseside Shield Cat. No. HS No Option	Optional shield made of stamped louvered aluminum allows streetside light to pass while blocking houseside light. Blackened reflector panels within the reflector also reduces the houseside reflection. Houseside Shield
Matte Black Body Cap: Cat. No. BBC No Option	For locations where complete cutoff optical control is desired, an Optional Matte Black Body Cap can be specified. This significantly reduces the indirect up-light distribution, providing complete cutoff. To further reduce the nighttime visual presence of the fixture, specify Black or Dark Bronze luminaire finish.
Textured Glass Lens Cat. No. TG No Option	Unique textured glass reduces LED glare and improves visual comfort.
Emergency Battery Back-up Cat. No. No Option	Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps. Battery Back-up
Cold-Pack Emergency Battery Pack Cat. No. EM-CP No Option	The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of hi/low ambient temperatures, -20°C to +55°C. Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps. Lamp (4-Pin) 1 lamp lumens 42W 750 32W 575
	26W 450 080, CITY OF INDUSTRY, CA 91716-0080 • TEL: 626/968-5666 • FAX: 626/369-2695



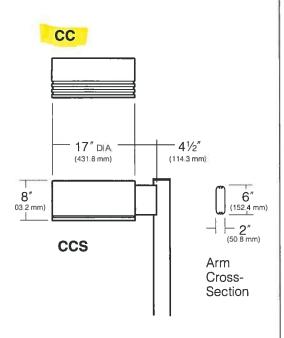


17" Arm Mounted, Curvilinear, PicoEmitter LED revision 12/19/13 • kl_cc17aeled_spec.pdf

Jo		number:			Approvals:
	/	/	/	1	
Mtg.	Fixture	Electrical Module	Finish	Options	
		- See page 2		See pages 3-4	Date:
Sele	ct pole fro	m Kim Arms and Pol	es Selectior	Guide. If pole is provided by others indicate O.D. for arm fitting.	Page: 1 of 6

Specifications

17* Diameter 60 Light Emitting Diodes Total System Watts = 64W



Housing: Spun aluminum. (Rollformed linear reveals; **CC:** Three equally spaced reveals, ½" wide, separated by ½" ribs, ¼" deep. **CCS:** One ¼" groove, ¼" deep.) Sidewalls have a maximum 1° of taper, and are free of welds or fasteners. A rollformed aluminum flange is hemmed into the bottom providing support for the reflector module. An internal aluminum casting provides for mounting of the electrical module plus reinforcing for side-arm mounting of the fixture.

Lens Frame Assembly: One-piece cast aluminum lens frame is attached to the housing by a zinc plated cold rolled steel hinge with a stainless steel pin. Closure is by one self-retained stainless steel screw. A stainless steel self-locking stop arm is provided to hold the lens frame in the open position while servicing. A ³/16" thick clear flat tempered glass lens is fully gasketed by a one-piece extruded and vulcanized silicone gasket. Lens is retained in the frame by removable zinc plated steel clips.

Standard Arm Mounting: Arm is 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 to mate with specified round pole.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, LifeShieldTM temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module.. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck™ mounting assembly fastens to the housing as a one-piece module.

Finish/Color: TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray, Platinum Silver, or White. Custom colors are available.

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Warranty: Kim Lighting warrants Curvilinear LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitter reflectors) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield temperature control device, surge protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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

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17" Arm Mounted, Curvilinear, PicoEmitter™ LED revision 12/19/13 • kl_cc17aeled_spec.pdf

Type: Job:	Page: 2 of 6
	Standard Features
Mounting 3Y configuration is available for round poles only.	Plan View: Wall Mount
	EPA: 0.9 1.8 1.6 2.5 2.5 2.8 — Cat. No.: □ 1A □ 2B □ 2L □ 3T □ 3Y □ 4C □ 1W
Fixture Cat. No. designates CC/ CCS fixture and light distribution.	X 17 A X E35 Housing: CC CC CCS Distribution: 1 = Type Full Cutoff 2 = Type Full Cutoff 3 = Type V Full Cutoff 4 = Type V Full Cutoff C = Type Left Full Cutoff R = Type R Right Full Cutoff Throw Light Distribution: Type Type Type Type III Type Type Type Type Type III Type V Type Type Type Type Type Type V Type Type Type Type V Type Type V Type Type Type Type V Type Type Type V Type V Type Type V Type Type V
Electrical Module	Cat. Nos. for Electrical Modules available: 60
Finish TGIC powder coat paint over a titanated zirconium conversion coating.	Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color ² Cat. No.: BL DB LG SG PS WH CC ² Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:
	Optional Features
Polycarbonate Lens Cat. No. L17F No Option	Clear UV stabilized polycarbonate replaces standard flat glass lens, gasketed and integral with lens frame. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. Polycarbonate Lens

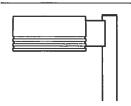


17" Arm Mounted, Curvilinear, PicoEmitter™ LED

revision 12/19/13 • kl_cc17aeled_spec.pdf

Type: Job:

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Optional Features

Wall Mounting

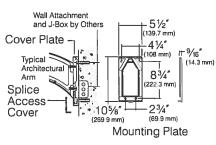
Cat. No.

1W

■ No Option

Select from Mounting on page 2.

Wall Mount: A cast mounting plate of 356 alloy, low-copper (<0.6% Cu) aluminum, is mounted to the wall with bolts (by others). Fixture and arm are mounted to a cast 356 alloy aluminum cover plate before attaching to the wall mounting plate. The fixture-arm-cover plate assembly is hooked to the wall mounting plate, and secured with stainless steel screws provided. After mounting to the wall, field splices are made at the opening in the cover plate, then covered by a cast 356 alloy aluminum plate that blends with the cover plate design. Complete fixture-arm-cover plate assembly can therefore be mounted before field splices are made. Cover plate is finished to match arm and fixture powder coat color.



CAUTION: Structural integrity of mounting plate attachment to wall is by others.

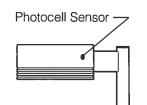
Photocell Control

Cat. No. (See right)

■ No Option

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.

Line Volts: Cat. No. ☐ A-30 120V □ A-31 208V ☐ A-32 240V □ A-33 277V □ A-35 347V ☐ A-34 480V

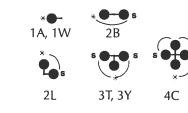


Mounting Configuration:

*-Fixture with Photocell Sensor

S – slave unit(s)

No fixture wattage limit.



Neighbor Friendly Optic:

Cat. No.

NFO

■ No Option

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

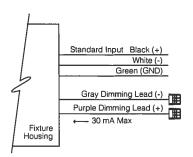




TYPE IV-NFO

0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBBTM. Approved dimmers include Lutron Diva 1. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





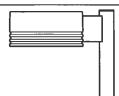
17" Arm Mounted, Curvilinear, PicoEmitter™ LED

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Type:

Job:

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Optional Features

Outdoor Occupancy Sensor

Cat. No.

(See right)

☐ No Option

Side Pole Mount

Outdoor Occupancy Sensor with 0-10VDC dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Available in voltages to match luminaire from 120 through 480VAC. Module color available in Black, Gray, or White (Picked at the factory when luminaire color is chosen, black used for dark colors). Field Adjustable Timeout settings for 5, 10, 15, and 30 minutes (Factory default is 5-minutes). Field adjustable unoccupied dimming level, 20%, 50%, 60%, or 70% (Factory default is 50%). One sensor can support multiple units up to 1500 watts. (Wiring from module to luminaire(s) is by-others). Mounted to a cast pole adapter painted to match pole.

Cat. No.

- □ SCL-R*/**/ ***- Pole Occupancy Sensor up to 16', UNV (120-347V) or 480V. Specify pole diameter.
- □ SCL-S/**/ *** Pole Occupancy Sensor up to 16', UNV (120-347V) or 480V. Square pole mount.
- □ SCH-R*/**/ ***- Pole Occupancy Sensor up to 30′, UNV (120-347V) or 480V. Specify pole diameter.
- SCH-S/**/ *** Pole Occupancy Sensor up to 30', UNV (120-347V) or 480V. Square pole mount.
- * Pole Diameter, ** Voltage, *** Color

Ordering Example: SCL-R4/277/BL



Side Pole Mount Detection Pattern Top View for Round Luminaire Mounted on Post Top

NOTE: Occupancy detection is blocked directly behind pole Install occupancy sensor as far away from pole as possible to maximize detection.



Occupancy Sensor



Side Pole Mount Detection Pattern Top View for Round Luminaire Mounted on Arm

NOTE: For 360° coverage, install two occupancy sensors 180° apart on pole

Sensor Lens Coverage and Detection Patterns

SCL to 16' mtg. ht. (3:1 Range)
SCH to 30' mtg. ht. (1.4:1 Range)
Y = 48' @ 16' mtg. ht. for SCL
Y = 42' @ 30' mtg. ht. for SCH

X = mounting ht.

Y = 3 x mtg. ht. for SCL
Y = 1.4 x mtg. ht. for SCH

Side View

Side View

Top View



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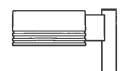
Type:						Page: 5 of 6
Job:	Optional	Featur	es			
Accent Reveals Cat. No. (See right) No Option	(For CC series o inside the housing Kim powder coat fi	reveals. Ava	ilable in fi	ve standard	Accent Re	eveals
	Color: Black	Dark Bronze	Light Gray	Stealth Gray™	Platinum Silver	White Custom Colors ¹
	Cat. No.: 🗆 BL-REV	DB-REV	☐ LG-REV	SG-REV	☐ PS-REV	□ WH-REV □ CC-REV
	¹Custom colors sul Consult representa				n quantities a	nd extended lead times.
Vertical Slipfitter Mounts Cat. No. includes Mounting. Cat. No. (See right) No Option	Allows fixture with to steel poles having O.D. x 4½* min. aluminum with flusteel set point alled drilled at one set so rotation. Finished the NOTE: 3Y only average of the steel set poles.	ng a 2" pipo length). 4" sh cap, secu n screws. Po rew location o match fixtu	e-size steel round or steed by four le tenon m to insure ag ire.	tenon (2%" square cast %" stainless ust be field ainst fixture	Pole with 2 tenon (by co	
	Cat. No. VSF-1A VSF-2B VSF-2L VSF-3T VSF-3Y VSF-4C Roun	Stainle Steel s screv	et —	□ SV □ SV	SF-1A SF-2B SF-2L SF-3T	Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90°
Horizontal Slipfitter Mount Cat. No. HSF No Option	Replaces standard allows CC/CCS Ar horizontal pole da end (2%" O.D.). Ca anti-rotation lock. electrical comparts standard support ar a set screw locatic Finished to match	m Mount mo vit-arm with ist aluminum Bolts to ho ment using i m. Davit-arn on to insure	odel to be m 2" pipe-size slipfitter wi' using from nounting he n must be fie against fixtu	ounted to a e mounting th set screw inside the oles for the eld drilled at	Davit-arm w	vith 2" pipe-size unt (by others)
Support Arm Cat. No. (See right) No Option	Arm View:	Q				
Note: Refer to Kim Lighting's Arms & Poles Selection Guide for complete details.	Swept Solid Arm Cat. No.: AA01	China		rm Hollow	Arm Aluminu	



17" Arm Mounted, Curvilinear, PicoEmitter™ LED revision 12/19/13 • kl_cc17aeled_spec.pdf

Type: Job:

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Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-S600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

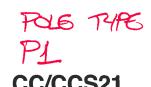
Projected	Lumen Maintena	nce
mA	100,000 hrs	(Calculated L70)
350	93.22%	584,00 hrs.

lectrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	0.56	67
208	0.32	67
240	0.28	67
277	0.24	67
347	0.19	67
480	0.14	67

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	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	81 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4200K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD
5100K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 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	3861	3959	3931	3248	3912	3294	3971	TBD
4200K	5062	5190	4972	4258	5129	4319	5206	TBD
5100K	5426	5564	5524	4564	S581	4626	5576	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.



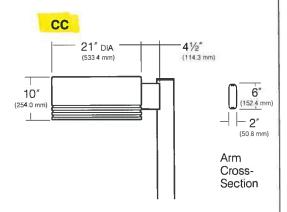


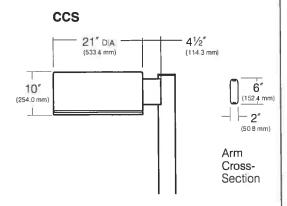
21" Arm Mounted, Curvilinear, PicoEmitter™ LED revision 12/19/13 • kim_cc21aeled_spec.pdf

Type: Job: Catalog number:	Approvals:
/ / / / Mtg. Fixture Electrical Module Finish Options	
See page 2 See page 2 See page 2 See page 3-4 Select pole from Kim Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.	Date: Page: 1 of 6

Specifications

21" Diameter 120 Light Emitting Diodes Total Max System Watts = 130W







Housing: Spun aluminum. (Rollformed linear reveals; **CC:** Three equally spaced reveals, ½" wide, separated by ½" ribs, ¼" deep. **CCS:** One ½" groove, ½" deep.) Sidewalls have a maximum 1° of taper, and are free of welds or fasteners. A rollformed aluminum flange is hemmed into the bottom providing support for the reflector module. An internal aluminum casting provides for mounting of the electrical module plus reinforcing for side-arm mounting of the fixture.

Lens Frame Assembly: One-piece cast aluminum lens frame is attached to the housing by a zinc plated cold rolled steel hinge with a stainless steel pin. Closure is by three self-retained stainless steel screws. A stainless steel self-locking stop arm is provided to hold the lens frame in the open position while servicing. A 3/16" thick clear flat tempered glass lens is fully gasketed by a one-piece extruded and vulcanized silicone gasket. Lens is retained in the frame by removable zinc plated steel clips.

Standard Arm Mounting: Arm is 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 to mate with specified round pole.

Electronic Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, LifeShield™ temperature control device and surge protector. Electrical module attaches to housing with key hole slots, accessible by opening the lens frame and removing optical module. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Precision, replaceable PicoEmitter reflectors are positioned to achieve directional control toward desired task. The entire EmitterDeck® mounting assembly fastens to the housing as a one-piece module.

Finish/Color: TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

Listed To: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

Warranty: Kim Lighting warrants Curvilinear LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitters) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield® temperature control device, surge protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



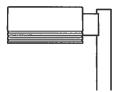
21" Arm Mounted, Curvilinear, PicoEmitter™ LED revision 12/19/13 • kim_cc21aeled_spec.pdf

Type:	
Job:	Page: 2 of 6
	Standard Features
Mounting 3Y configuration is available for round poles only.	Plan View: Cat. No.: 1.2 2.4 2.2 3.4 3.4 3.9 — Cat. No.: 1A 2B 2L 3T 3Y 4C 1W
Fixture Cat. No. designates CC/CCS fixture and light distribution.	CC 21 A x 350mA Light Distribution: Housing: CC CCS Distribution: 1 = Type Full Cutoff 2 = Type Full Cutoff 3 = Type Full Cutoff 4 = Type V Full Cutoff L = Type Left Full Cutoff R = Type R Right Full Cutoff Trype Type Type
Electrical Module	Cat. Nos. for Electrical Modules available: 120L
Finish TGIC powder coat	Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color Cat. No.: BL DB LG SG PS WH CC ¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:
<u></u>	Optional Features
Polycarbonate Lens Cat. No. L21F No Option	Clear UV stabilized polycarbonate replaces standard flat glass lens, gasketed and integral with lens frame. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. Polycarbonate Lens

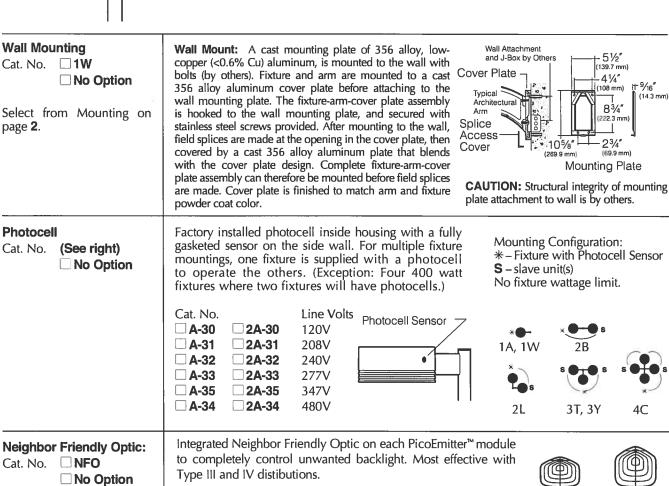


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Optional Features





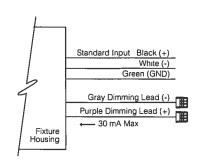


TYPE III-NFO

TYPE IV-NFO

0-10V Dimming Interface

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





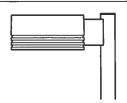
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Optional Features

Outdoor Occupancy Sensor

Cat. No.

(See right) ■ No Option

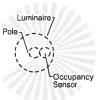
Side Pole Mount

Outdoor Occupancy Sensor with 0-10VDC dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Available in voltages to match luminaire from 120 through 480VAC. Module color available in Black, Gray, or White (Picked at the factory when luminaire color is chosen, black used for dark colors). Field Adjustable Timeout settings for 5, 10, 15, and 30 minutes (Factory default is 5-minutes). Field adjustable unoccupied dimming level, 20%, 50%, 60%, or 70% (Factory default is 50%). One sensor can support multiple units up to 1500 watts. (Wiring from module to luminaire(s) is by-others). Mounted to a cast pole adapter painted to match pole.

Cat. No.

- ☐ SCL-R*/**/ ***- Pole Occupancy Sensor up to 16', UNV (120-347V) or 480V. Specify pole diameter.
- ☐ SCL-S/**/ *** Pole Occupancy Sensor up to 16', UNV (120-347V) or 480V. Square pole mount.
- SCH-R*/**/ ***- Pole Occupancy Sensor up to 30', UNV (120-347V) or 480V. Specify pole diameter.
- SCH-S/**/ *** Pole Occupancy Sensor up to 30', UNV (120-347V) or 480V. Square pole mount.
- * Pole Diameter, ** Voltage, *** Color

Ordering Example: SCL-R4/277/BL

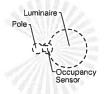


Side Pole Mount **Detection Pattern** Top View for Round Luminaire Mounted on Post Top

NOTE: Occupancy detection is blocked directly behind pole Install occupancy sensor as far away from pole as possible



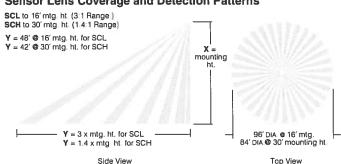
Occupancy Sensor Side Pole Mount



Side Pole Mount Detection Pattern Top View for Round Luminaire Mounted on Arm

NOTE: For 360° coverage. install two occupancy sensors 180° apart on pole

Sensor Lens Coverage and Detection Patterns





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	Optional Features
Accent Reveals Cat. No. (See right) No Option	(For CC series only) Three aluminum bands riveted inside the housing reveals. Available in five standard Kim powder coat finishes. Custom colors available. Accent Reveals
	Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color Cat. No.: BL-REV DB-REV LG-REV SG-REV PS-REV WH-REV CC-REV
	¹ Custom colors subject to additional charges, minimum quantities and extended lead times Consult representative. Custom color description:
Vertical Slipfitter Mounts Cat. No. (See right) No Option	Allows fixture with standard support arm to be mounted to steel poles having a 2" pipe-size steel tenon (2%" O.D. x 4½" min. length). 4" round or square cast aluminum with flush cap, secured by four 3%" stainless steel set point allen screws. Pole tenon must be field drilled at one set screw location to insure against fixture rotation. Finished to match fixture. NOTE: 3Y only available on round slipfitter. Cat. No. VSF-1A VSF-1A Stainless Cat. No. SVSF-1A SVSF-1A SVSF-2B Stainless Cat. No. SVSF-1A SVSF-1A SVSF-1A SVSF-1A SVSF-1A SVSF-1A SVSF-2B SVSF-2B
	VSF-2L Steel set SVSF-2L 2L - 2 at 90° VSF-3T SVSF-3T 3T - 3 at 90° VSF-3Y Square SVSF-4C 4C - 4 at 90° 4C - 4 at 90°
Horizontal Slipfitter Mount Cat. No. HSF No Option	Replaces standard mounting arm with a slipfitter which allows CC/CCS Arm Mount model to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (23%" O.D.). Cast aluminum slipfitter with set screw anti-rotation 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 and arm.
Support Arm Cat. No. (See right) No Option	Arm View:
Note: Refer to Kim Lighting's Architectural Arms Catalog for complete details.	Swept Solid Arm Hollow Arm Solid Arm Hollow Arm Solid Arm Hollow Arm Upsweep Hollow Arm Uplift Adjustable Aluminum Arm Stainless Steel Arm Cat. No.: AA01 AA03 AA05 AA07 AA09 AA11

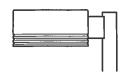


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Type:

Job:





Lumen Data

Spectroradiometric						
	3000K Average	4200K Average	5100K Average			
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K			
Color Rendering Index (CRI)	≤80	≤80	≤70			
Power Factor	>.90	>.90	>.90			

Projected Lumen Maintenance*						
mA	100,000 hrs	(Calculated L70)				
350	93.92%	669,000 hrs.				

*Still awaiting independent third party verification

lectrical Drive Current						
Volts - AC	Amps - AC	System Watts				
120	1.05	126				
208	0.61	126				
240	0.53	126				
277	0.45	126				
347	0.36	126				
480	0.26	126				

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
4200K	TBD	B3 U0 G3	B2 U0 G2	B2 U0 G2	B1 U0 G2	B1 U0 G2	B3 U0 G2	TBD
5100K	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	8280	8097	6638	8074	6752	8541	TBD
4200K	TBD	10530	10297	8440	10268	8586	10862	TBD
5100K	TBD	11434	11181	9164	11149	9323	11794	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.