



Type:  
Job:  
Catalog number:

Approvals:

Fixture	/	/	/
	Electrical Module	Luminaire Finish	Options
	See page 2		See page 3

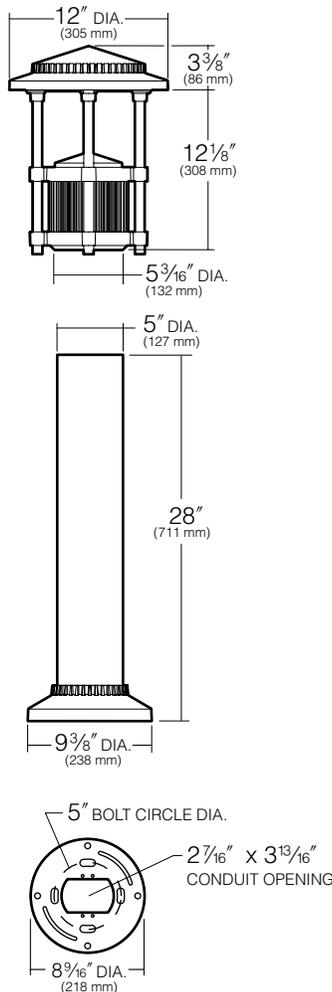


3000K and warmer CCTs only

Date:  
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# Specifications

**BNB1 LED**  
18, 27 or 36 LED



**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.

**Body Support:** 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 die-cast 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.

**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 3.

**Shaft:** One-piece aluminum extrusion, .125" minimum wall thickness and two internal 3/16"-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. A total of 27 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for Type I version; three (3) modules for Type III version; and four (4) modules for Type V version. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

**LED Driver:** Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**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. RoHS compliant. Meets Buy American provisions within ARRA.

**Warranty:** Kim Lighting warrants Bollard LED products 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 five (5) years for exterior housing paint finish(s), (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LifeShield® device), 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 personal injury.

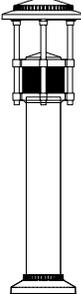
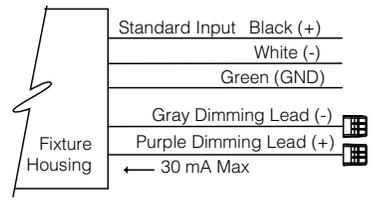


KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE

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## Standard Features

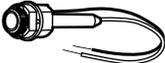
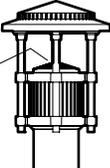
<p><b>Fixture</b></p>	 <p>Cat. No. <input type="checkbox"/> <b>BNB1</b></p>			
<p><b>Electrical Module</b>  <b>LED</b> = Light Emitting Diode</p>	<p>Cat. Nos. for LED Electrical Modules available:</p> <table border="0"> <tr> <td style="text-align: center;"> <p><b>xL</b></p> <p><b>Source:</b></p> <p><input type="checkbox"/> <b>18L</b>= Type I</p> <p><input type="checkbox"/> <b>27L</b>= Type III</p> <p><input type="checkbox"/> <b>36L</b>= Type V</p> </td> <td style="text-align: center;"> <p><b>xK</b></p> <p><b>Color Temperature:</b></p> <p><input type="checkbox"/> 2K = 580nm - Amber</p> <p><input type="checkbox"/> 3K = 3000K</p> <p><input type="checkbox"/> 4K = 4200K</p> <p><input type="checkbox"/> 5K = 5100K</p> </td> <td style="text-align: center;"> <p><b>UV</b></p> <p><b>Voltage:</b></p> <p><input type="checkbox"/> <b>UV</b> Universal Voltage shall range from 120V-277V</p> </td> </tr> </table>	<p><b>xL</b></p> <p><b>Source:</b></p> <p><input type="checkbox"/> <b>18L</b>= Type I</p> <p><input type="checkbox"/> <b>27L</b>= Type III</p> <p><input type="checkbox"/> <b>36L</b>= Type V</p>	<p><b>xK</b></p> <p><b>Color Temperature:</b></p> <p><input type="checkbox"/> 2K = 580nm - Amber</p> <p><input type="checkbox"/> 3K = 3000K</p> <p><input type="checkbox"/> 4K = 4200K</p> <p><input type="checkbox"/> 5K = 5100K</p>	<p><b>UV</b></p> <p><b>Voltage:</b></p> <p><input type="checkbox"/> <b>UV</b> Universal Voltage shall range from 120V-277V</p>
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<p><b>Luminaire Finish</b>        TGIC powder coat paint on fixture and shaft.</p>	<p>Color:    Black    Dark Bronze    Light Gray    Stealth Gray    Platinum Silver    White    Custom Color<sup>1</sup></p> <p>Cat. No.: <input type="checkbox"/> <b>BL</b>    <input type="checkbox"/> <b>DB</b>    <input type="checkbox"/> <b>LG</b>    <input type="checkbox"/> <b>SG</b>    <input type="checkbox"/> <b>PS</b>    <input type="checkbox"/> <b>WH</b>    <input type="checkbox"/> <b>CC</b></p> <p><sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>			
<p><b>0-10V Dimming Interface</b></p>	<p>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.</p> 			

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## Optional Features

<p><b>Fusing (internal only):</b>          Cat. No. (see chart at right)  <input type="checkbox"/> No Option</p>	<p>High temperature fuse holders factory installed inside the fixture housing. Fuse is included.          Line Volts: 120V 208V 240V 277V 347V          Cat. No.: <input type="checkbox"/> SF <input type="checkbox"/> DF <input type="checkbox"/> DF <input type="checkbox"/> SF <input type="checkbox"/> SF</p>	 Single Fuse
<p><b>Matte Black Body Cap:</b>          Cat. No. <input type="checkbox"/> BBC  <input type="checkbox"/> No Option</p>	<p>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.</p>	 Optional Cap
<p><b>Battery Back-up</b>          Cat. No. <input type="checkbox"/> EM  <input type="checkbox"/> No Option</p>	<p>Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.</p>	 Battery Back-up
<p><b>Optional Duplex Receptacle</b>          Cat. No. <input type="checkbox"/> DR  <input type="checkbox"/> DR-GFI  <input type="checkbox"/> No Option</p>	<p>Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed While-In-Use cover with locking tab. Painted to match bollard.  <b>DR</b> weather proof duplex receptacle rated 20A, 125V.  <b>DR-GFI</b> weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.</p>	

Type:

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## Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K - 3175K	3800K - 4600K	4600K - 5600K
Color Rendering Index (CRI)	≥75	≥70	≥65
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	50,000 hrs	100,000 hrs
350mA		

Based on 36LED version.

Electrical Drive Current - @350mA						
Volts - AC	Type 1		Type 3		Type 5	
	Amps - AC	System Watts	Amps - AC	System Watts	Amps - AC	System Watts
120	0.18	21	0.26	31	0.34	41
208	0.10	21	0.15	31	0.20	41
240	0.09	21	0.13	31	0.17	41
277	0.08	21	0.11	31	0.15	41

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare			
Temperature	Type 1	TYPE 3	TYPE 5
3000K	B1 U0 G1	B1 U0 G1	B1 U0 G1
4200K	B1 U0 G1	B1 U0 G1	B1 U0 G1
5100K	B1 U0 G1	B1 U0 G1	B2 U0 G1

Absolute Lumens			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	1321	2188	2747
4200K	1365	2174	2838
5100K	1509	2404	3137

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://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.