

# BNB1 LED

BOUNCE BOLLARD

Type:

Job:

Catalog number:

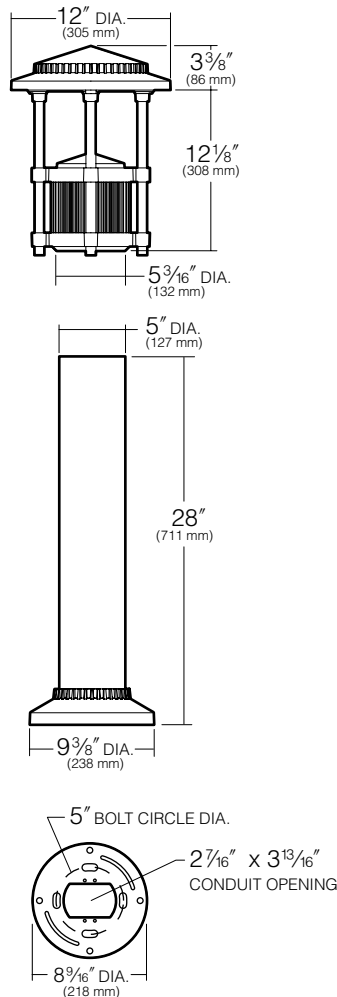
Approvals:

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

## 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.

**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.

**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

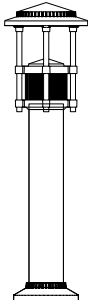
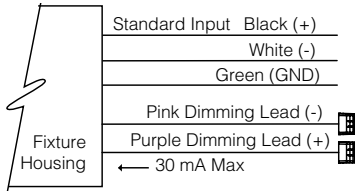
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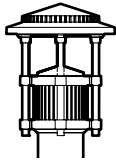
Standard Features

Fixture	 Cat. No.   <b>BNB1</b>
Electrical Module LED = Light Emitting Diode	<div>Cat. Nos. for LED Electrical Modules available:</div> <div><div><div>xL</div><div>Source:</div><div>  18L= Type I</div><div>  27L= Type III</div><div>  36L= Type V</div></div><div><div>xK</div><div>Color Temperature:</div><div>  2K = 580nm - Amber</div><div>  3K = 3000K</div><div>  4K = 4200K</div><div>  5K = 5100K</div></div><div><div>UV</div><div>Voltage:</div><div>  UV Universal Voltage shall range from 120V-277V</div></div></div>
Luminaire Finish TGIC powder coat paint on fixture and shaft.	<div><div>Cat. No.: Color:</div><div>  BLS Black Gloss Smooth</div><div>  BLT Black Matte Textured</div><div>  DBS Dark Bronze Gloss Smooth</div><div>  DBT Dark Bronze Matte Textured</div><div>  GTT Graphic Matte Textured</div><div>  LGS Light Grey Gloss Smooth</div></div> <div><div>Cat. No.: Color:</div><div>  LGT Light Grey Matte Textured</div><div>  PSS Platinum Silver Gloss Smooth</div><div>  VGT Verde Green Matte Textured</div><div>  WHS White Gloss Smooth</div><div>  WHT White Matte Textured</div><div>  CC Custom Color</div></div> <div>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</div>
0-10V Dimming Interface	<div>Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems. Note: Not compatible with current sourcing dimmers. Controls compatible via Pink and Purple dimming lead.</div> <div></div>

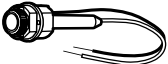
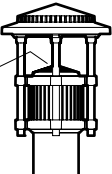

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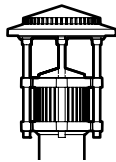
Optional Features

<b>Fusing (internal only):</b> 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	 Single Fuse
<b>Matte Black Body Cap:</b> 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.	 Optional Cap
<b>Battery Back-up</b> Cat. No.   EM   No Option	Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.	 Battery Back-up
<b>Optional Duplex Receptacle</b> Cat. No.   DR   DR-GFI   No Option	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>Duplex Receptacle (DR)</b> rated 20A, 125V. <b>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A, 125V.	

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Lumen Data

Spectroradiometric				Projected Lumen Maintenance		
	3000K Average	4200K Average	5100K Average	mA	50,000 hrs	100,000 hrs
Correlated Color Temp. CCT (K)	2800K - 3175K	3800K - 4600K	4600K - 5600K	350mA		
Color Rendering Index (CRI)	≥75	≥70	≥65	Based on 36LED version.		
Power Factor	>.90	>.90	>.90			

Electrical Drive Current - @350mA						
	Type 1		Type 3		Type 5	
Volts - AC	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 I	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.currentlighting.com/kimlighting](http://www.currentlighting.com/kimlighting) to download the most current photometric files from Kim Lighting's IES File Library.  
For custom optics and color temperature configurations, contact factory.