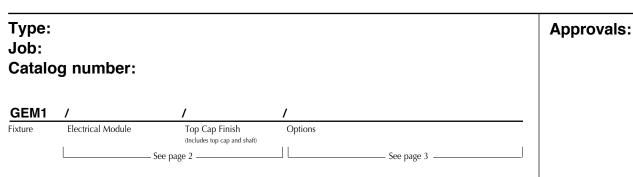
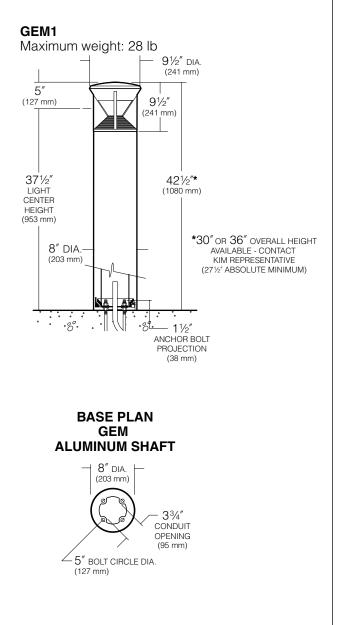
## **GEM®1 LED Performance Bollard**

ALUMINUM SHAFT



#### Specifications

**GEM** Models



**Top Cap:** Die-cast, low copper (< 0.6% Cu) aluminum secured to rib body by captive stainless steel allen cap screws. For lamp access, allen screws shall not require complete removal.

**Supports:** Die-cast, low copper (< 0.6% Cu) aluminum supports secured in place as a complete cage assembly. The top section provides a cutoff lamp compartment. The supports are secured to the shaft by four stainless steel tie rods.

**Refractor:** Thermally tempered soda lime glass sealed with silicone gaskets top and bottom.

**Shaft:** One-piece aluminum extrusion, .125" minimum wall thickness with a heavy cast aluminum anchor base concealed within the shaft. Hex socket stainless steel set screws shall lock the shaft onto the cast frangible anchor base.

**LED Optical System:** A total of 9 mid power LED emitters configured in a rectangular array comprised together as a module. Two (2) modules, 18 diodes for Type I version; three (3) modules, 27 diodes for Type III version; and four (4) modules, 36 diodes for Type V version. Available in 580nm Amber, 3000K, 4000K and 5000K color temperatures.

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

**Anchor Bolts:** Four C" x 10" + 2" zinc plated J-bolts, each with two nuts, washers and a rigid pressed board template.

**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.

U.S. PATENT D443,094

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Current 🐵

#### currentlighting.com/kimlighting

## 

# **GEM®1 LED Performance Bollard**

ALUMINUM SHAFT

Fixture	Cat. No. <b>GEM1</b> Fixture with Aluminum Shaft					
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available:					
		xL	хК		UV	
		Source:   I 18L= Type I   I 27L= Type III   I 36L= Type V	<b>Color Temp</b>   2K = 580nm   3K = 3000K   4K = 4000K   5K = 5000K		Voltage: UV Universal Voltage shall range from 120V-277V	
<b>Finish</b> TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating on fixture and shaft.	I BLT B   I DBS D   I DBT D   I GTT C   I LGS L <sup>1</sup> Custom col Consult rep   Aluminum Aluminum	Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth Dark Bronze Matte Textured Graphic Matte Textured .ight Grey Gloss Smooth lors subject to additional of resentative. Custom color of <b>Riser (Shaft)</b>	description:	Color: Light Grey Matte Textured Platinum Silver Gloss Smooth Verde Green Matte Textured White Gloss Smooth White Matte Textured Custom Color num quantities and extended lead time th TGIC thermoset polyester powder co		
0-10V Dimming Interface		a 0-10V dimming interface )-100%. Is compatible wi		rol       F	Standard Input Black (+) White (-) Green (GND) Pink Dimming Lead (-) Purple Dimming Lead (+) using ← 30 mA Max	

### **KIM**LIGHTING®

# **GEM®1 LED Performance Bollard**

ALUMINUM SHAFT



## **Optional Features**

Houseside Shield Cat. No.   HS   No Option	90° houseside shield. .032" thick aluminum, painted to match fixture.	$\nabla \nabla$		
Battery Back-up Cat. No. I EM I No Option	Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.	Battery Back-up		
Optional Duplex Receptacle 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 Receptable (DR)</b> rated 20A, 125V. <b>Duplex Receptable with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A, 125V.			

### **KIM**LIGHTING®

## **GEM®1 LED Performance Bollard**

ALUMINUM SHAFT



#### Lumen Data

Electrical Drive Current - @350mA						
	Туре 1		Туре 3		Туре 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>B.U.G. Rating</b> (TM15) in Lumens where $B = Backlight$ , $U = Uplight$ , $G = Glare$					
Temperature	TYPE 1	TYPE 3	TYPE 5		
3000K	B1 U3 G1	B1 U3 G1	B1 U3 G1		
4000K	B1 U3 G1	B1 U3 G1	B1 U3 G1		
5000K	B1 U3 G1	B1 U3 G1	B1 U3 G1		

Absolute Lumens					
Temperature	TYPE 1	TYPE 3	TYPE 5		
3000K	1101	1750	2290		
4000K	1129	1794	2349		
5000K	1142	1815	2376		

LED performance and lumen output continues to improve at a rapid pace. For custom optics and color temperature configurations, contact factory.