

GEM®1C LED Performance Bollard

CONCRETE SHAFT

Type:
Job:
Catalog number:

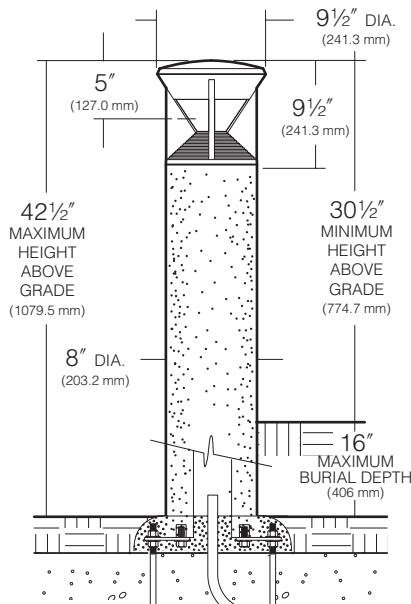
Approvals:

GEM1C /	/	/	/	/
Fixture	Electrical Module	Top Cap Finish	Concrete Shaft Finish	Options
See page 2		See page 3		

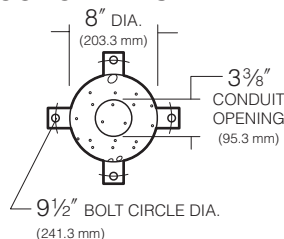
Specifications

GEM1C

Maximum weight: 114 lb



BASE PLAN GEM CONCRETE SHAFT



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.

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 ±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.

Material: Cement to conform to current specifications for Portland Cement. ASTM C150, Type I or II. Aggregates meet current requirements of Specifications for Concrete Aggregates, ASTM C33. Water to be clean and free from deleterious amounts of silt, oil, acids, alkalis or organic materials. Wire for reinforcement to conform to ASTM A185. Steel for lugs and plates to conform to ASTM A36, or A283 grade D.

Surface: Medium sand-blasted with anti-graffiti sealer. Available colors are Charcoal, Brown, Natural Gray or White, integral in concrete mix.

Cure and Strength: Allows for completion of the hydration process, and results in a 28 day compressive strength of not less than 4,500 psi.

Manufacture: Fiberglass molds used to insure uniform parts. Mold parting lines may be slightly visible in finished parts.

Anchorage: Four steel mounting tabs for installation on four K" x 10" + 2" zinc electroplated J-bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template.

Shipment: Palletized with adequate hold-downs to prevent load movement in transit.

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.

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Standard Features



<p>Fixture</p>	<p>Cat. No. GEM1C Fixture with Concrete Shaft</p>				
<p>Electrical Module LED = Light Emitting Diode</p>	<p>Cat. Nos. for LED Electrical Modules available:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center; vertical-align: top;"> <p>xL</p> <p>Source:</p> <ul style="list-style-type: none"> 18L= Type I 27L= Type III 36L= Type V </td> <td style="text-align: center; vertical-align: top;"> <p>xK</p> <p>Color Temperature:</p> <ul style="list-style-type: none"> 2K = 580nm - Amber 3K = 3000K 4K = 4000K 5K = 5000K </td> <td style="text-align: center; vertical-align: top;"> <p>UV</p> <p>Voltage:</p> <ul style="list-style-type: none"> UV Universal Voltage shall range from 120V-277V </td> </tr> </table>	<p>xL</p> <p>Source:</p> <ul style="list-style-type: none"> 18L= Type I 27L= Type III 36L= Type V 	<p>xK</p> <p>Color Temperature:</p> <ul style="list-style-type: none"> 2K = 580nm - Amber 3K = 3000K 4K = 4000K 5K = 5000K 	<p>UV</p> <p>Voltage:</p> <ul style="list-style-type: none"> UV Universal Voltage shall range from 120V-277V 	
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<p>Finish TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating on fixture top cap. Concrete shaft surface color is integral in concrete mix. Available in any combination of paint and concrete finishes listed at right.</p>	<p>Top Cap</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> <p>Cat. No.: Color:</p> <ul style="list-style-type: none"> BLS Black Gloss Smooth BLT Black Matte Textured DBS Dark Bronze Gloss Smooth DBT Dark Bronze Matte Textured GTT Graphic Matte Textured LGS Light Grey Gloss Smooth </td> <td style="width: 50%;"> <p>Cat. No.: Color:</p> <ul style="list-style-type: none"> 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 </td> </tr> </table> <p>Concrete Shaft</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> <ul style="list-style-type: none"> BR-C Brown CH-C Charcoal </td> <td style="width: 50%;"> <ul style="list-style-type: none"> NG-C Natural Gray WH-C White </td> </tr> </table> <p>¹Custom colors subject to additional charges, minimum quantities and extended lead times. Available on fixture head only. Consult representative. Custom color description: _____</p>	<p>Cat. No.: Color:</p> <ul style="list-style-type: none"> BLS Black Gloss Smooth BLT Black Matte Textured DBS Dark Bronze Gloss Smooth DBT Dark Bronze Matte Textured GTT Graphic Matte Textured LGS Light Grey Gloss Smooth 	<p>Cat. No.: Color:</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> BR-C Brown CH-C Charcoal 	<ul style="list-style-type: none"> NG-C Natural Gray WH-C White
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<p>0-10V Dimming Interface</p>	<p>Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including. Note: Not compatible with current sourcing dimmers. Controls compatible via Pink and Purple dimming lead.</p> <div style="text-align: right;"> </div>				

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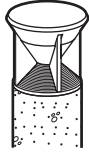


Optional Features

<p>Houseside Shield Cat. No. HS No Option</p>	<p>90° houseside shield .032" thick aluminum, painted to match fixture.</p>	
<p>Battery Back-up Cat. No. EM No Option</p>	<p>Internal battery pack provides 90 minutes of supplemental light at 25% of initial lamp lumens.</p>	

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Lumen Data

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 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.