

**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

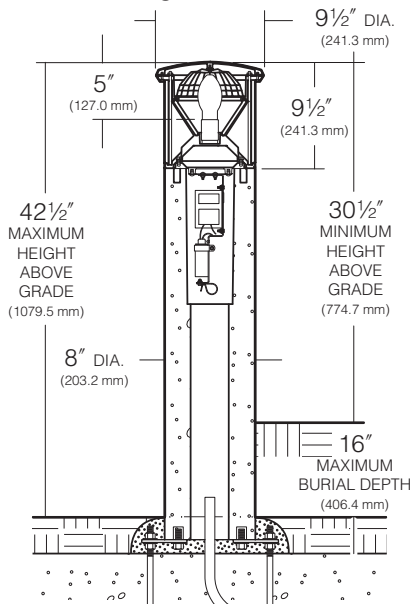
**GEM1C / / / /**  
 Fixture      Electrical Module      Top Cap Finish      Concrete Shaft Finish      Optional Houseside Shield  
 See page 2

**Date:**  
**Page: 1 of 3**

## Specifications

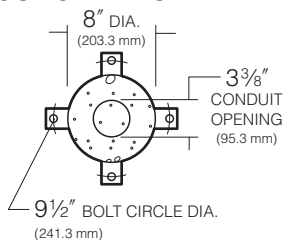
**GEM™ Models**  
 70 to 100 watt HID  
 Medium Base Lamps  
 32 watt Compact Fluorescent  
 18, 27 or 36 LED

**GEM1C**  
 Maximum weight: 114 lb



HID drawing shown above

### 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.

**Socket:** Porcelain medium base socket rated 4KV for HID Plastic socket for Fluorescent.

**Ballast:** Factory mounted to rigid harness for field wiring and suspension from fixture head within the concrete shaft. Wire leads supplied to base. **HID:** High power factor with starting temperatures of -20°F. for PMH and -40°F. for HPS lamp modes. **26W, 32W Fluorescent:** High power factor with starting temperature of 0°F.

**LED Optical System:** 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, 27, or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

**Anchor Bolts:** Four 3/8" 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 1/2" 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:** 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, Platinum Silver, or White. Custom colors are available.

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

### Listings and Ratings

ETL <sup>1</sup> to UL Standards 1598 & 8750	IP 46 Rated	CE	25C Ambient
CO = Cut Off <sup>2</sup>			

<sup>1</sup>Suitable for wet locations.

<sup>2</sup>Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



U.S. PATENT D443,094

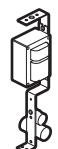










Type:

Job:

Page: 2 of 3



## Standard and Optional Features

<p><b>Fixture</b></p>	<p>Cat. No. <b>GEM1C</b> Fixture with Concrete Shaft</p>																																																																																				
<p><b>Electrical Module</b>  <b>PMH</b> = Pulse Start Metal Halide  <b>HPS</b> = High Pressure Sodium  <b>PL</b> = Compact Fluorescent  <b>LED</b> = Light Emitting Diode</p> <p>Lamp Watts    Lamp Line Type    Volt  <b>70    PMH    277</b>          For PMH, HPS and PL.          See footnote 2 below for LED</p>  <p><b>NOTE:</b> For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.</p>	<p>Cat. Nos. for Electrical Modules available:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="2">Pulse Start Metal Halide</th> <th colspan="2">High Pressure Sodium</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> <b>70PMH120</b></td> <td><input type="checkbox"/> <b>100PMH120</b></td> <td><input type="checkbox"/> <b>70HPS120</b></td> <td><input type="checkbox"/> <b>100HPS120</b></td> </tr> <tr> <td><input type="checkbox"/> <b>70PMH208</b></td> <td><input type="checkbox"/> <b>100PMH208</b></td> <td><input type="checkbox"/> <b>70HPS208</b></td> <td><input type="checkbox"/> <b>100HPS208</b></td> </tr> <tr> <td><input type="checkbox"/> <b>70PMH240</b></td> <td><input type="checkbox"/> <b>100PMH240</b></td> <td><input type="checkbox"/> <b>70HPS240</b></td> <td><input type="checkbox"/> <b>100HPS240</b></td> </tr> <tr> <td><input type="checkbox"/> <b>70PMH277</b></td> <td><input type="checkbox"/> <b>100PMH277</b></td> <td><input type="checkbox"/> <b>70HPS277</b></td> <td><input type="checkbox"/> <b>100HPS277</b></td> </tr> <tr> <td><input type="checkbox"/> <b>70PMH347</b></td> <td><input type="checkbox"/> <b>100PMH347</b></td> <td><input type="checkbox"/> <b>70HPS347</b></td> <td><input type="checkbox"/> <b>100HPS347</b></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>E-17, Clear</th> <th>E-17, Clear</th> <th>ED-17, Clear</th> <th>ED-17, Clear</th> </tr> </thead> <tbody> <tr> <td>Lamp</td> <td>E-17, Clear</td> <td>E-17, Clear</td> <td>ED-17, Clear</td> <td>ED-17, Clear</td> </tr> <tr> <td>Socket</td> <td>Medium Base</td> <td>Medium Base</td> <td>Medium Base</td> <td>Medium Base</td> </tr> <tr> <td>ANSI Ballast Type</td> <td>M-98</td> <td>M-90</td> <td>S-62</td> <td>S-54</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>Compact Fluorescent</th> <th colspan="3">LED</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> <b>32PL<sup>1</sup></b></td> <td><input type="checkbox"/> <b>18L3KUV<sup>2</sup></b></td> <td><input type="checkbox"/> <b>27L3KUV<sup>2</sup></b></td> <td><input type="checkbox"/> <b>36L3KUV<sup>2</sup></b></td> </tr> <tr> <td></td> <td><input type="checkbox"/> <b>18L5KUV<sup>2</sup></b></td> <td><input type="checkbox"/> <b>27L5KUV<sup>2</sup></b></td> <td><input type="checkbox"/> <b>36L5KUV<sup>2</sup></b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>IES Type 1</td> <td>IES Type 3</td> <td>IES Type 5</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>Compact Fluor.</th> <th>LED</th> <th>LED</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Lamp</td> <td>Compact Fluor.</td> <td>LED</td> <td>LED</td> <td>LED</td> </tr> <tr> <td>Socket</td> <td>GX24q-3</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p><sup>1</sup> <b>32PL</b> operates one 26, or 32 watt lamp at 120 thru 277 volts (50-60 Hz).  <b>NOTE:</b> Clear lamps are recommended.  <sup>2</sup> For LED, 18L = 18 LED Emitters; 27L = 27 LED Emitters; 36L = 36 LED Emitters;          3K = 3500K color temperature; 5K = 5100K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.</p>					Pulse Start Metal Halide		High Pressure Sodium		<input type="checkbox"/> <b>70PMH120</b>	<input type="checkbox"/> <b>100PMH120</b>	<input type="checkbox"/> <b>70HPS120</b>	<input type="checkbox"/> <b>100HPS120</b>	<input type="checkbox"/> <b>70PMH208</b>	<input type="checkbox"/> <b>100PMH208</b>	<input type="checkbox"/> <b>70HPS208</b>	<input type="checkbox"/> <b>100HPS208</b>	<input type="checkbox"/> <b>70PMH240</b>	<input type="checkbox"/> <b>100PMH240</b>	<input type="checkbox"/> <b>70HPS240</b>	<input type="checkbox"/> <b>100HPS240</b>	<input type="checkbox"/> <b>70PMH277</b>	<input type="checkbox"/> <b>100PMH277</b>	<input type="checkbox"/> <b>70HPS277</b>	<input type="checkbox"/> <b>100HPS277</b>	<input type="checkbox"/> <b>70PMH347</b>	<input type="checkbox"/> <b>100PMH347</b>	<input type="checkbox"/> <b>70HPS347</b>	<input type="checkbox"/> <b>100HPS347</b>		E-17, Clear	E-17, Clear	ED-17, Clear	ED-17, Clear	Lamp	E-17, Clear	E-17, Clear	ED-17, Clear	ED-17, Clear	Socket	Medium Base	Medium Base	Medium Base	Medium Base	ANSI Ballast Type	M-98	M-90	S-62	S-54		Compact Fluorescent	LED			<input type="checkbox"/> <b>32PL<sup>1</sup></b>	<input type="checkbox"/> <b>18L3KUV<sup>2</sup></b>	<input type="checkbox"/> <b>27L3KUV<sup>2</sup></b>	<input type="checkbox"/> <b>36L3KUV<sup>2</sup></b>		<input type="checkbox"/> <b>18L5KUV<sup>2</sup></b>	<input type="checkbox"/> <b>27L5KUV<sup>2</sup></b>	<input type="checkbox"/> <b>36L5KUV<sup>2</sup></b>						IES Type 1	IES Type 3	IES Type 5		Compact Fluor.	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<p><b>Finish</b></p> <p>Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture top cap.</p> <p>Concrete shaft surface color is integral in concrete mix. Available in any combination of paint and concrete finishes listed at right.</p>	<p><b>Top Cap</b></p> <p>Color:    Black            Dark Bronze    Light Gray            Platinum Silver    White            Custom Colors<sup>3</sup>          Cat. No.: <input type="checkbox"/> <b>BL</b>            <input type="checkbox"/> <b>DB</b>            <input type="checkbox"/> <b>LG</b>            <input type="checkbox"/> <b>PS</b>            <input type="checkbox"/> <b>WH</b>            <input type="checkbox"/> <b>CC</b></p> <p><b>Concrete Shaft</b></p> <p>Color:    Brown            Charcoal            Natural Gray    White          Cat. No.: <input type="checkbox"/> <b>BR-C</b>    <input type="checkbox"/> <b>CH-C</b>            <input type="checkbox"/> <b>NG-C</b>            <input type="checkbox"/> <b>WH-C</b></p> <p><sup>3</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Available on fixture head only. Consult representative.          Custom color description: _____</p>																																																																																				
<p><b>Houseside Shield</b></p> <p>Cat. No.    <input type="checkbox"/> <b>HS</b>                           <input type="checkbox"/> <b>No Option</b></p>	<p>90° houseside shield          .032" thick aluminum, painted to match fixture.</p> 																																																																																				

Type:  
 Job:



## Standard and Optional Features

**Emergency Battery Back-up**

Cat. No.  **EM**  
 **No Option**  
 compact fluorescent only.

Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, or 32 watt compact fluorescent lamps.



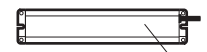
Battery Back-up

**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.



cold-pack  
 battery back-up

<u>Lamp (4-Pin)</u>	<u>1 lamp lumens</u>
32W	575
26W	450