

Type:
Job:
Catalog number:

Approvals:

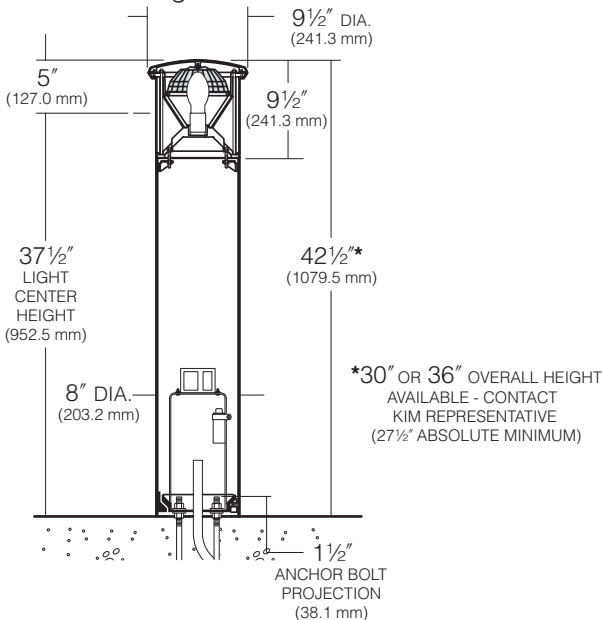
GEM1	/	/	/
Fixture	Electrical Module	Top Cap Finish (Includes top cap and shaft)	Options
See page 2		See page 3	

Date:
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Specifications

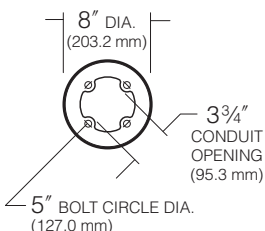
GEM™ Models
70 to 100 watt HID
Medium Base Lamps
32 watt Compact Fluorescent
18, 27 or 36 LED

GEM1
Maximum weight: 28 lb



HID drawing shown above

BASE PLAN GEM ALUMINUM SHAFT



U.S. PATENT D443,094

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.

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.

Ballast: Factory mounted to rigid harness attached to the anchor base. Wiring shall be supplied from the socket for field connection to the prewired ballast components. **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 4000K and 5000K.

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.

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 local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings

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

¹Suitable for wet locations.

²Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

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Standard Features

Fixture

Cat. No. **GEM1** Fixture with Aluminum Shaft

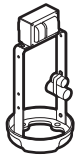
Electrical Module

PMH = Pulse Start Metal Halide
HPS = High Pressure Sodium
PL = Compact Fluorescent
LED = Light Emitting Diode

Lamp Watts Lamp Type Line Volts






70 PMH 277

For PMH, HPS and PL.
 See footnote 2 below for LED



NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

	Pulse Start Metal Halide		High Pressure Sodium		Compact Fluorescent
	Electrical Module:	Electrical Module:	Electrical Module:	Electrical Module:	Electrical Module:
	<input type="checkbox"/> 70PMH120	<input type="checkbox"/> 100PMH120	<input type="checkbox"/> 70HPS120	<input type="checkbox"/> 100HPS120	<input type="checkbox"/> 32PL³
	<input type="checkbox"/> 70PMH208	<input type="checkbox"/> 100PMH208	<input type="checkbox"/> 70HPS208	<input type="checkbox"/> 100HPS208	
	<input type="checkbox"/> 70PMH240	<input type="checkbox"/> 100PMH240	<input type="checkbox"/> 70HPS240	<input type="checkbox"/> 100HPS240	
	<input type="checkbox"/> 70PMH277	<input type="checkbox"/> 100PMH277	<input type="checkbox"/> 70HPS277	<input type="checkbox"/> 100HPS277	
	<input type="checkbox"/> 70PMH347	<input type="checkbox"/> 100PMH347	<input type="checkbox"/> 70HPS347	<input type="checkbox"/> 100HPS347	
Amperes	.75, .43, .38, .33, .26 ¹	1.1, .62, .54, .47, .38 ¹	.76, .44, .38, .33, .26 ¹	1.1, .63, .54, .47, .38 ¹	.32, .18, .16, .14 ²
System Watts	90	129	91	130	38
Lamp	E-17, Clear	E-17, Clear	ED-17, Clear	ED-17, Clear	Compact Fluor.
Socket	Medium Base	Medium Base	Medium Base	Medium Base	GX24q-3
ANSI Ballast	M-98	M-90	S-62	S-54	N/A
	LED				
	Electrical Module:	Electrical Module:	Electrical Module:	Electrical Module:	Electrical Module:
	<input type="checkbox"/> 18L4KUV⁴	<input type="checkbox"/> 27L4KUV⁴	<input type="checkbox"/> 36L4KUV⁴	<input type="checkbox"/> 36L4KUV⁴	<input type="checkbox"/> 36L5KUV⁴
	<input type="checkbox"/> 18L5KUV⁴	<input type="checkbox"/> 27L5KUV⁴	<input type="checkbox"/> 36L5KUV⁴	<input type="checkbox"/> 36L5KUV⁴	
					
	IES Type 1	IES Type 3	IES Type 5	IES Type 5	IES Type 5
Amperes	.16, .09, .08, .07 ²	.24, .14, .12, .11 ²	.32, .19, .16, .14 ²	.32, .19, .16, .14 ²	.32, .19, .16, .14 ²
System Watts	19.6	29.1	38.7	38.7	38.7
Lamp	LED	LED	LED	LED	LED

¹ Amperes for 120V, 208V, 240V 277V and 347V respectively.

² Amperes for 120V, 208V, 240V and 277V respectively.

³ **32PL** operates one 26, or 32 watt lamp at 120 thru 277 volts (50-60 Hz).

NOTE: Clear lamps are recommended.

⁴ For LED, 18L = 18 LED Emitters; 27L = 27 LED Emitters; 36L = 36 LED Emitters; 4K = 4000K color temperature; 5K = 5000K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.


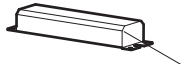
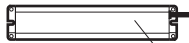
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Standard and Optional Features

<p>Finish Super TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating on fixture and shaft.</p>	<p>Top Cap Color: Black Dark Bronze Light Gray Platinum Silver White Custom Color¹ Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> PS <input type="checkbox"/> WH <input type="checkbox"/> CC</p> <p>¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p> <p>Aluminum Riser (Shaft) Aluminum Riser shaft is finished to match fixture with super TGIC thermoset polyester powder coat paint over a titanated zirconium conversion coating.</p>						
<p>Houseside Shield Cat. No. <input type="checkbox"/> HS <input type="checkbox"/> No Option</p>	<p>90° houseside shield. .032" thick aluminum, painted to match fixture.</p> 						
<p>Emergency Battery Back-up² Cat. No. <input type="checkbox"/> EM <input type="checkbox"/> No Option compact fluorescent only.</p>	<p>Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, or 32 watt compact fluorescent lamps.</p>  <p>Battery Back-up</p> <p>²Only available for 120 or 277V.</p>						
<p>Cold-Pack Emergency Battery Pack³ Cat. No. <input type="checkbox"/> EM-CP <input type="checkbox"/> No Option</p>	<p>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.</p> <p>Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps.</p> <table border="1" data-bbox="500 1459 922 1564"> <thead> <tr> <th><u>Lamp (4-Pin)</u></th> <th><u>1 lamp lumens</u></th> </tr> </thead> <tbody> <tr> <td>32W</td> <td>575</td> </tr> <tr> <td>26W</td> <td>450</td> </tr> </tbody> </table>  <p>cold-pack battery back-up</p> <p>³Only available for 120 or 277V.</p>	<u>Lamp (4-Pin)</u>	<u>1 lamp lumens</u>	32W	575	26W	450
<u>Lamp (4-Pin)</u>	<u>1 lamp lumens</u>						
32W	575						
26W	450						
<p>Optional Duplex Receptacle 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.</p> <p>DR weather proof duplex receptacle rated 20A, 125V. DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.</p>						