

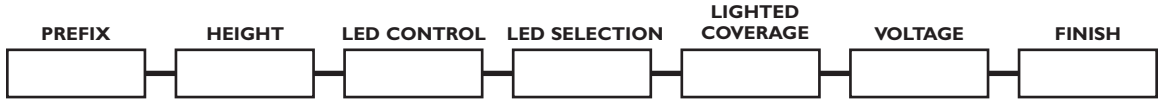
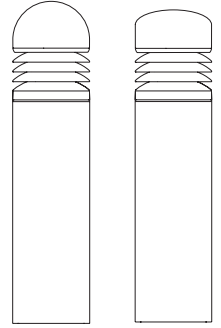
Job:  
Type:  
Notes:



# LED BOLLARD

## BRM832 / BRM 836 School Bollards Featuring Motion Response

Gardco's BRM832 dome top and BRM836 beveled top louvered LED School Bollards provide uniform illumination and superior spacings. A high-strength galvanized steel tenon throughout the length of the luminaire provides solid vandal resistance. Rugged extruded and cast construction with silicone seals and gasketing assure years of trouble-free service. Gardco's advanced stack-louver LED technology and Motion Response provide maximized light output and maximum energy savings.



Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

Dome Top Bevel Top

PREFIX		HEIGHT	LED CONTROL
<b>BRM832</b>	LED Dome Top School Bollard	<b>42"</b>	<b>MR</b> Motion Response <i>LEDs stay on Low Level (8 watts) when no motion is present. LEDs increase to full light output (41 watts) when motion detected.</i>
<b>BRM836</b>	LED Bevel Top School Bollard	<b>36"</b>	

**CWL** Constant Wattage Full Light Output  
*Full light output only (41 watts). No motion sensor included.*

*(Note: A variation of LED wattage (+/- 8%) may occur due to LED manufacturer's forward volt specification and ambient temperature.)*

LED SELECTION		LIGHTED COVERAGE	VOLTAGE
<b>CW</b>	6,500°K , 75CRI	<b>360</b> 360° lighted louvers	<b>UNIV</b> 120V through 277V, 50hz to 60hz input.
<b>NW</b>	4,300°K , 75CRI	<b>180</b> 180° lighted louvers <i>(Provides reduced backside light.)</i>	
<b>WW</b>	3,000°K , 75CRI		<b>347<sup>1</sup></b> 347V

**Voltage Note:**  
1. 347V bollards require and include a step-down transformer in bollard.

Solid Colors	
<b>LA</b>	Amber
<b>LR</b>	Red
<b>LG</b>	Green
<b>LB</b>	Blue

*Consult factory for lead times on LEDs other than CW, NW, and WW.*

FINISH		
<b>BRP</b>	Bronze Paint	<b>OC</b> Optional Color Paint <i>Specify RAL designation as ex: OC-RAL7024.</i>
<b>BLP</b>	Black Paint	
<b>WLP</b>	White Paint	
<b>NLP</b>	Natural Aluminum Paint	<b>SC</b> Special Color Paint <i>Specify. Must supply color chip.</i>
<b>BGP</b>	Beige Paint	
<b>VP</b>	Verde Green Paint	
<b>LGP</b>	Light Granite Paint	
<b>DGP</b>	Dark Granite Paint	
<b>LSP</b>	Light Sandstone Paint	
<b>DSP</b>	Dark Sandstone Paint	
<b>RBP</b>	Red Brick Paint	

1611 Clovis Barker Road, San Marcos, TX 78666  
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 [sitelighting.com](http://sitelighting.com)

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G200-010/0212

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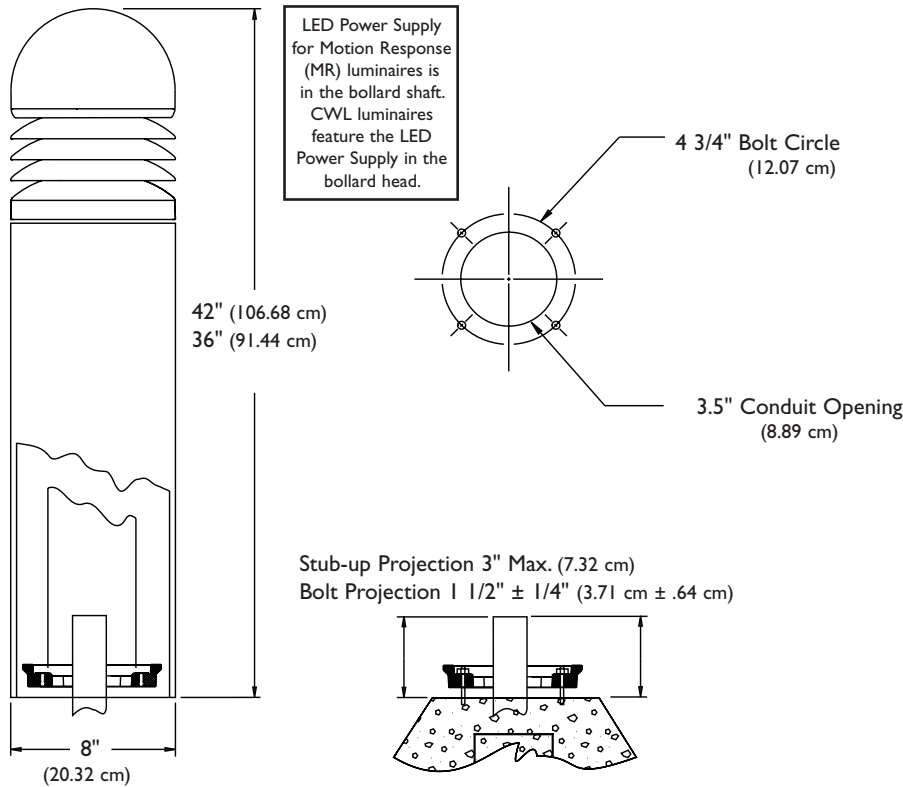
# LED BOLLARD

## BRM832 / BRM 836 School Bollards Featuring Motion Response

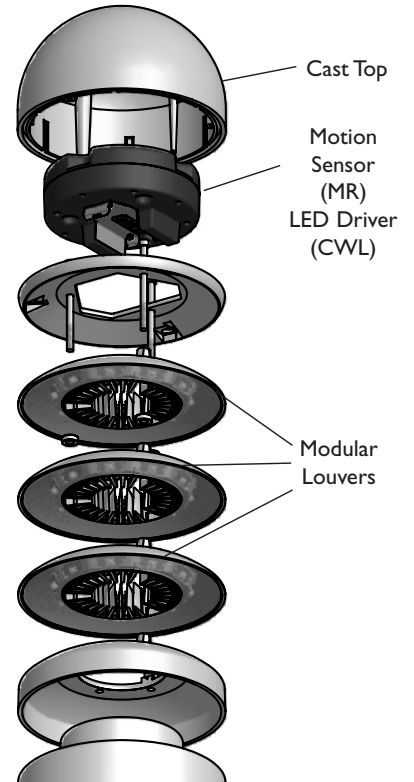
### DIMENSIONS

**NOTE:** Factory supplied template must be used when setting anchor bolts. Philips Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

#### Galvanized Steel Mounting System



#### LED Bollard



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# LED BOLLARD

## BRM832 / BRM 836 School Bollards Featuring Motion Response

### SPECIFICATIONS

**GENERAL:** Each Gardco louvered LED School Bollard is a luminaire with three luminous louvers, each louver containing 10 1-watt LEDs (360° Lighted Coverage) or 5 1-watt LEDs (180° Lighted Coverage), appropriately spaced. A die cast louvered head assembly provides low-glare, high performance lighting. A concealed high strength steel tenon mounting system is designed to address the challenges of school environments.

**UPPER HOUSING:** A diecast aluminum dome top secures to a one-piece diecast zinc louver assembly with three (3) concealed tamper resistant screws.

**LOWER HOUSING:** .125" (.318 cm) wall 6063-T5 extruded aluminum which connects to the top flange of the mounting tenon with four (4) internal hex bolts, inaccessible after installation.

### LED PERFORMANCE:

PREDICTED LUMEN DEPRECIATION DATA <sup>2</sup>		
Ambient Temperature °C	Driver mA	L <sub>70</sub> Hours <sup>3</sup>
15 °C	350	112,000
25 °C	350	90,000
40 °C	350	65,000

2. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.  
3. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output.

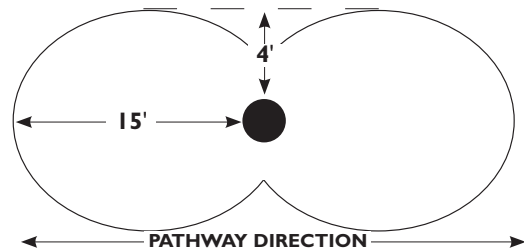
**LENS & OPTICAL SYSTEM:** Gardco LED Bollards feature the advanced Gardco stacked louver LED technology, assuring maximized light output. Each individual louver is replaceable if needed or desired.

**ANCHORAGE:** A high strength steel mounting tenon, hot-dip galvanized after fabrication, is secured and double-nut leveled to the concrete footing with (4) 3/8" x 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 4 3/4" - 5" (12.07 cm - 12.70 cm) bolt circle.

**ELECTRICAL:** For CWL bollards, the LED power supply is located within the bollard head. For Motion Response (MR) bollards the LED power supply is located within the bollard shaft. Bollards accept from 120 Volts through 277 Volts, 50hz to 60 hz, input. Bollards with 347V input require and include a step-down transformer (placed within the bollard shaft) to provide proper input voltage to the LED power supply. The LED driver is located in the upper dome. LED power supplies and LED drivers are replaceable. LEDs provided as specified.

Luminaires ordered with Motion Response include a microwave motion sensor. The motion sensor is completely and safely concealed within the LED Bollard head to avoid potential vandalism to the sensor. With Motion Response, LEDs operate on Low Level (8 watts) when no motion is present. LEDs increase to full light output (41 watts) when motion is detected. Motion Response system includes adjustments for time on high level and motion sensitivity.

Approximate Motion Sensor Detection Pattern:



Bollard orientation is adjustable in 120° increments. Consult LED Bollard installation instruction sheets for more detailed information concerning bollard placement and sensor performance.

**FINISH:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured textured polyester powdercoat finish. The painted finish is bonded to the exterior surfaces utilizing chromate conversion as a pretreatment.

**LABELS:** All luminaires bear UL or CUL (where applicable) Wet Location labels.

**WARRANTY:** Gardco luminaires feature a 5 year limited warranty. Gardco LED luminaires with LED arrays or modules feature a 5 year limited warranty covering the LED arrays or modules. See Warranty Information on [sitelighting.com](http://sitelighting.com) for complete details and exclusions.