GARDCO by signify

Bollard

Dome/bevel top louver

BRM832/836 school bollards

Gardco dome top and bevel top louver 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 durability. Our advanced stack-louver LED technology and motion response provide maximized light output and energy savings.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

Example: BRM832-42-CWL-NW-360-UNIV-BRP

Prefix	Height	LED Control[1]	LED Selection	Lighted Coverage	Voltage	Finish
BRM832 LED dome top school bollard **BRM836** LED bevel top school bollard	**42** 42" **36** 36"	**MR** Motion Response - LEDs stay on low level (8W) when no motion is present and increase to full light output (41W) when motion detected. **CWL** Constant Wattage Full Light Output - full light output only (41W). No motion sensor included.	**CW** 6500K, 75 CRI **NW** 4500K, 75 CRI **WW** 3000K, 75 CRI **Solid Colors** **LA[2]** Amber **LR[2]** Red **LG[2]** Green **LB[2]** Blue	**360** 360° lighted louvers **180** 180° lighted louvers (provides reduced backside light)	**347[3]** **UNIV** (120-277V)	**BLP** Black Paint **WP** White Paint **BRP** Bronze Paint **NP** Natural Aluminum Paint **OC** Optional Color Specify optional color or RAL. ex: OC-LGP or OC-RAL7024. **SC** Special Color Specify. Must supply color chip. Requires factory quote.

1. A variation of LED wattage (+/- 8%) may occur due to LED manufacturer's forward volt specification and ambient temperature.)
2. Consult factory for lead times.
3. 347V bollards require and include a step-down transformer in bollard.

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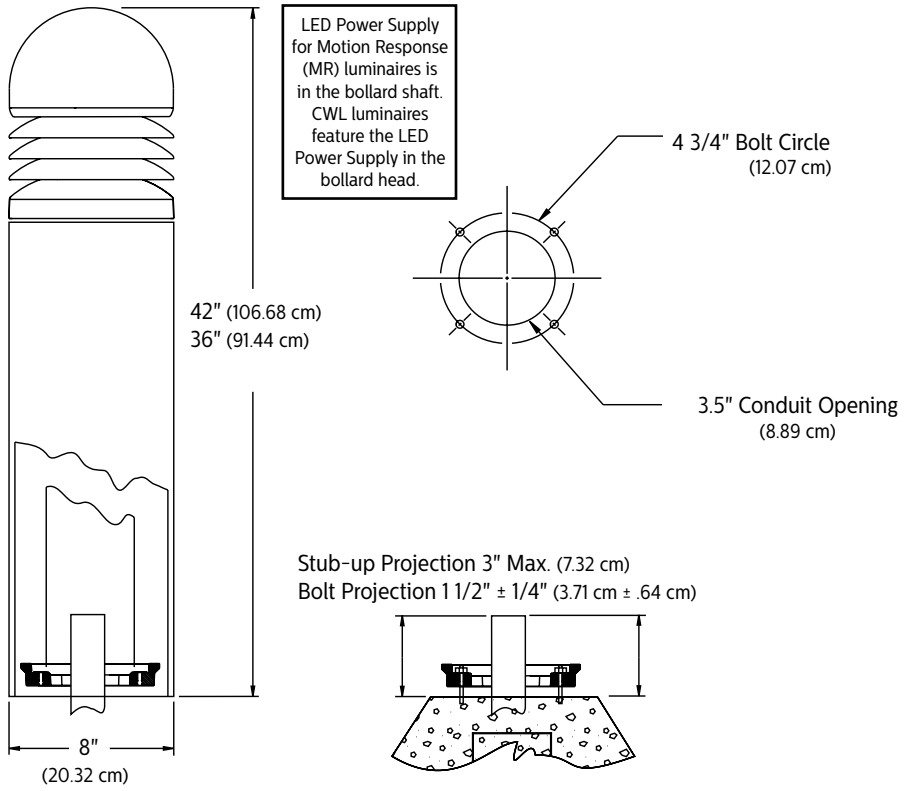
Bollard – Dome or Bevel Top Louver

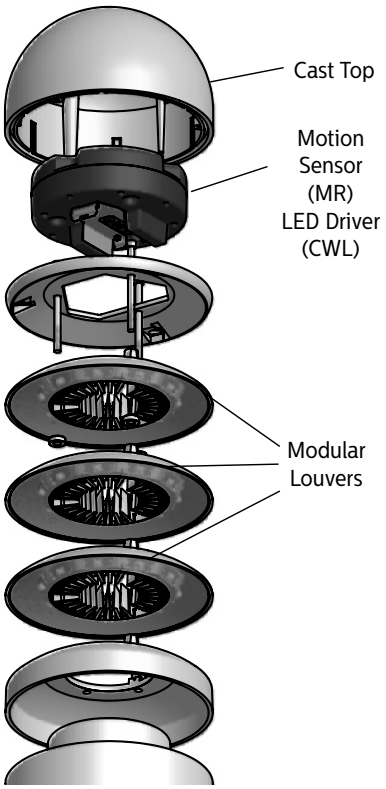
Dimensions

NOTE: Factory supplied template must be used when setting anchor bolts. 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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Bollard – Dome or Bevel Top Louver

Specifications

General

Each 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[4]		
Ambient Temperature °C	Driver mA	L_{70} Hours[5]
15 °C	350	112,000
25 °C	350	90,000
40 °C	350	65,000

4. 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.
5. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.

Optical System

Gardco LED Bollards feature the advanced Gardco stacked louver LED technology, assuring maxmimized light output. Each individual louver is replaceable if needed or desired.

Anchorage

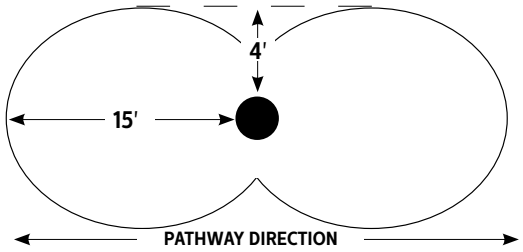
A high strength steel mounting tenon, hot-dip galvanized after fabrication, is secured and double-nut leveled to the concrete footing with (4) 3/8" x 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 4 3/4" - 5" (12.07 cm - 12.70 cm) bolt circle.

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 Motion Response installation instruction sheets for more detailed information concering bollard placement and sensor performance.

All product now include Surge Protection for 120V through 277V Input meeting ANSI C62.41.2 as a standard

Luminaire 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

5 year limited warranty. See signify.com/outdoorluminaires for complete details and exclusions.

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