# Bollard

## Dome/bevel top louver

BRM830/BRM832/BRM834/BRM836

**Gardco LED dome and bevel top louver bollards** provide uniform illumination, superior spacing and 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 energy savings.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

### Ordering guide

**Example:** BRM830-42-108L-58-NW-G2-120-BZ

| Prefix | Shaft Height | Number of LEDs | Drive Current | LED Color – Generation | Voltage |
|---|---|---|---|---|---|
| **Dome top** | **36** Standard shaft 36" | **54L** 18 LEDs per louver with 180° distribution [1] | **116** 116mA | **WW-G2** Warm White 3000K, 70 CRI Generation 2 | **120** 120V |
| **BRM830** With cast aluminum base | 42 Standard shaft 42" | | | NW-G2 Neutral White 4000K, 70 CRI Generation 2 | **208** 208V |
| BRM832 School bollard with cast aluminum base and galvanized tenon throughout luminaire length | | | | CW-G2 Cool White 5000K, 70 CRI Generation 2 | **240** 240V |
| **Bevel top** | | | | | **277** 277V |
| **BRM834** With cast aluminum base | | **108L** 36 LEDs per louver with 360° distribution [2] | **58** 58mA | | **347** 347V [3] |
| BRM836 School bollard with cast aluminum base and galvanized tenon throughout luminaire length | | | | | |

| Options | | |
|---|---|---|
| **Motion sensing** | **Electrical** | **Finish** |
| **IMRI** Integral infrared | **Surge Protection** (10kA standard) | **Textured** |
| | **SP2** Increased 20kA | **BK** Black |
| | | **WH** White |
| | | **BZ** Bronze |
| | | **DGY** Dark Gray |
| | | **MGY** Medium Gray |
| | | **Customer specified** |
| | | **RAL** Specify optional color or RAL (ex: RAL7024) |
| | | **CC** Custom color (Must supply color chip for required factory quote) |

1. 116mA only possible when 54L is selected.
2. 58mA only possible when 108L is selected
3. 347V bollards require and include a step-down transformer in bollard.

## Accessories

| Service | 12NC | Description |
|---|---|---|
| **(4) 3/8X8X1.5 A/B 2N-2W-1LW + (1) Template** | | |
| For shipment with the bollard (order 1 per bollard) | 912401538594 | KIT, BRM830/834 ANCHOR BOLTs & TEMPL |
| | 912401538592 | KIT, BRM832/836 ANCHOR BOLTs & TEMPL |

# **BRM830 series** LED bollard

## Dome or bevel top louver

### LED Wattage and Lumen Values

| Ordering Code | LED Qty | LED Current (mA) | Color Temp. | Average System Watts | Lumen Output | BUG Rating | Efficacy (LPW) |
|---|---|---|---|---|---|---|---|
| **BRM83X-54L-116-NW-G2 (Asymmetric)** | 54 | 116 | 4000 | 41.4 | 1053 | B0-U3-G1 | 25 |
| **BRM83X-108L-58-NW-G2 (Symmetric)** | 108 | 58 | 4000 | 38.6 | 1226 | B1-U3-G1 | 32 |

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### Predicted Lumen Depreciation Data

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.$L_{70}$ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published $L_{70}$ hours limited to 6 times actual LED test hours

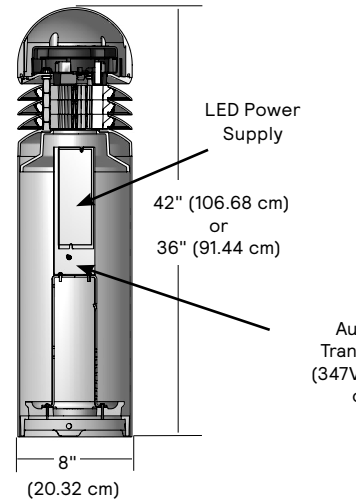
| Ambient Temperature °C | System Current | LED Current | Calculated $L_{70}$ Hours | $L_{70}$ per TM-21 | Lumen Maintenance % at 60,000 hrs |
|---|---|---|---|---|---|
| **25°C** | **1050mA** | **116mA** | **>100,000 hours** | **>60,000 hours** | **88%** |

# **BRM830 series** LED bollard

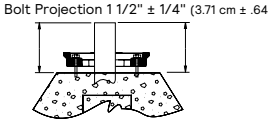
## Dome or bevel top louver

### Dimensions

**BRM830/BRM834**



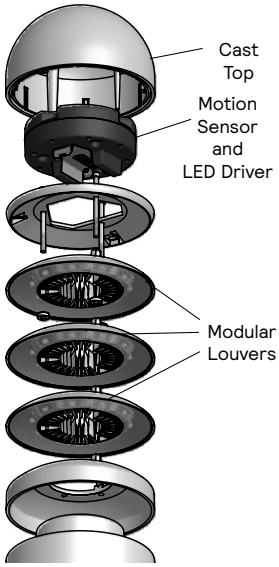

LED Power Supply locations shown are for Motion Response (IMR) luminaires only.



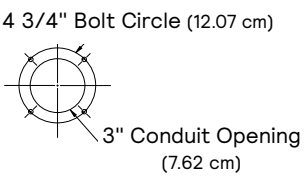

**BRM832/BRM836**



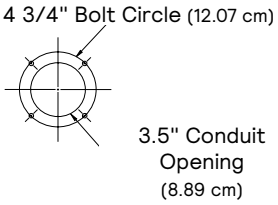

**LED Bollard**




**BRM830/BRM834**




**BRM832/BRM836**




**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.

# **BRM830 series** LED bollard

## Dome or bevel top louver

### Specifications

#### Housing

Cast aluminum dome top secures to one-piece louvered casting with three (3) concealed tamper resistant screws.

BRM830 / BRM834: Luminaire features a cylindrical .125" (.318 cm) wall 6063-T5 extruded aluminum base housing. Bottom section has a welded-in cast ring for attachment to base assembly with four (4) hex head set screws.

BRM 832 / BRM836: Luminaire features a .125" (.318 cm) wall 6063-T5 extruded aluminum base housing which connects to the top flange of the mounting tenon with four (4) internal hex bolts, inaccessible after installation.

#### Light Engine

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

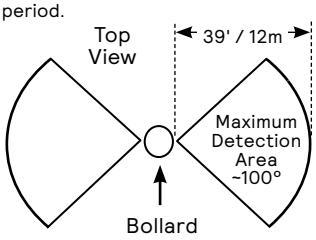
#### Mounting

BRM830 / BRM834: Base assembly consists of a cast aluminum platform and ballast mounting bracket. Assembly is secured and leveled to the mounting foundation with four (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" (12.07 cm) bolt circle.

BRM832 / BRM836: 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.

#### Motion response options

**Infrared Motion Response Integral (BL-IMRI):** Motion Response module is mounted integral to luminaire factory pre-programmed to 20% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: When motion is not detected for a 5 -minute period, luminaires automatically dim to 20% power and light, gradually over a 2 -minute period. Once Motion is detected, luminaires immediately ramp to full power and light output until motion is not detected for a 5-minute period.




#### Electrical

**Driver:** Driver efficiency (>90% standard). 120-277V available. Bollards with 347V require and include a step-down transformer (placed within the bollard shaft) to provide proper input voltage to the LED power supply. Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Surge protection:** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

UL 1598 standard, suitable for Wet Locations. Suitable for use in ambients from -40° to 40°C (-40° to 104°F). The quality systems of this facility have been registered by UL to the ISO 9001 series standards.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Warranty

BRM830X luminaires feature a 5-year limited warranty.
See signify.com warranties for complete details and exclusions.

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