



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

Options		
Motion sensing	Electrical	Finish
IMRI Integral infrared	Surge Protection (10kA standard) SP2 Increased 20kA	Textured 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)

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

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. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours

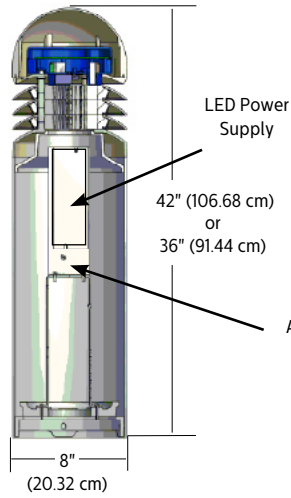
Ambient Temperature °C	System Current	LED Current	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	1050mA	116mA	>100,000 hours	>60,000 hours	88%

BRM830 series LED bollard

Dome or bevel top louver

Dimensions

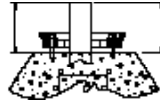
BRM830/BRM834



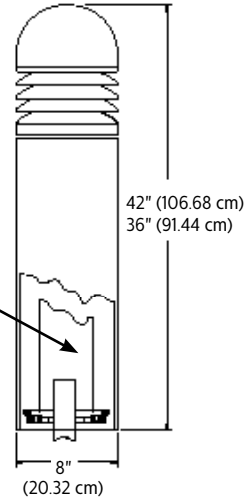
LED Power Supply locations shown are for Motion Response (IMR) luminaires only.

Auxilliary Transformer (347V Bollards only)

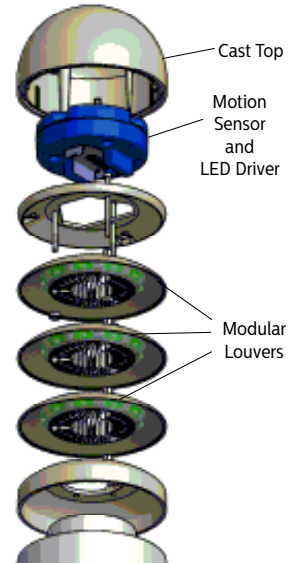
Stub-up Projection 3" Max. (7.32 cm)
Bolt Projection 1 1/2" ± 1/4" (3.71 cm ± .64 cm)



BRM832/BRM836

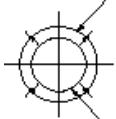


LED Bollard



BRM830/BRM834

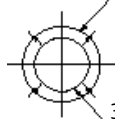
4 3/4" Bolt Circle (12.07 cm)



3" Conduit Opening
(7.62 cm)

BRM832/BRM836

4 3/4" Bolt Circle (12.07 cm)



3.5" Conduit Opening
(8.89 cm)

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 maximized light output. Each individual louver is replaceable if needed or desired.

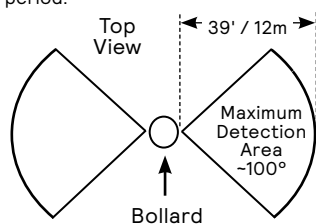
Mounting

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.



Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

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.

