



Work. Play. Solar.

# Lunasol M1 LED Bollard

## Solar Powered LED Bollard

Project: \_\_\_\_\_

Type: \_\_\_\_\_ Quantity: \_\_\_\_\_

The Lunasol M1 solar powered LED bollard is an ideal choice for low level architectural, commercial way finding, and landscaping lighting applications. Visual appeal combined with high quality construction and unequalled solar power performance make the Lunasol M1 Solar LED Bollard an excellent fit where quality low level lighting is required.

Utilizing solar power and LED lighting the Lunasol M1 Solar LED bollards are fully self contained and offer significant benefits over typical wired bollards:

- Low installed cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Immune from power outages
- Provide a visibly green statement without recurring carbon emissions

The performance of the Lunasol M1 Solar LED Bollard is maximized through the use of proprietary Energy Management System (EMS) technology that allows the luminaire to function in harmony with its environment.

The EMS ensures that regardless of low-solar weather patterns or unusual charging conditions such as shading, the bollard continues to provide useable light that enhances the appeal and safety of the night time environment.



## TECHNICAL SPECIFICATIONS

**Solar Module:** High impact, UV resistant, polycarbonate encapsulation  
High efficiency mono-crystalline cells  
Fully integrated into bollard housing  
Used for day/night detection (no photocell required)

**Energy Management System (EMS):** High efficiency Maximum Power Point Tracking (MPPT) charge controller  
Microcontroller based system  
Includes high efficiency LED driver  
Integrated into bollard housing  
Automatically manages lighting performance based on environmental conditions and lighting requirements  
Patent pending

**Battery:** Pure lead, spiral wound, absorbed glass mat (AGM)  
Superior cyclic performance  
10 year design life  
Simple battery changes when required

**LEDs and Optics:** High output Cree LED  
50,000 hour L70 lifetime  
Warm (3000K), neutral (4300K) and cool (5500K) color temperatures available  
Omni-directional light output with Fresnel lens  
Typical lumen output of 50 lumens

**Mechanical Construction:** Cast, low copper aluminum housing  
Extruded, low copper aluminum post  
Stainless fasteners  
Architectural grade, super durable, TGIC powder coat with Alodine undercoat

**Factory Set Lighting Profiles:** On at dusk, off at dawn  
On at dusk, turn off after 6 hours  
On at dusk, dim to 30% after 6 hours  
On at dusk, off after 5 hours, on 1 hour before dawn  
On at dusk, dim to 30% after 5 hours, on for 1 hour before dawn

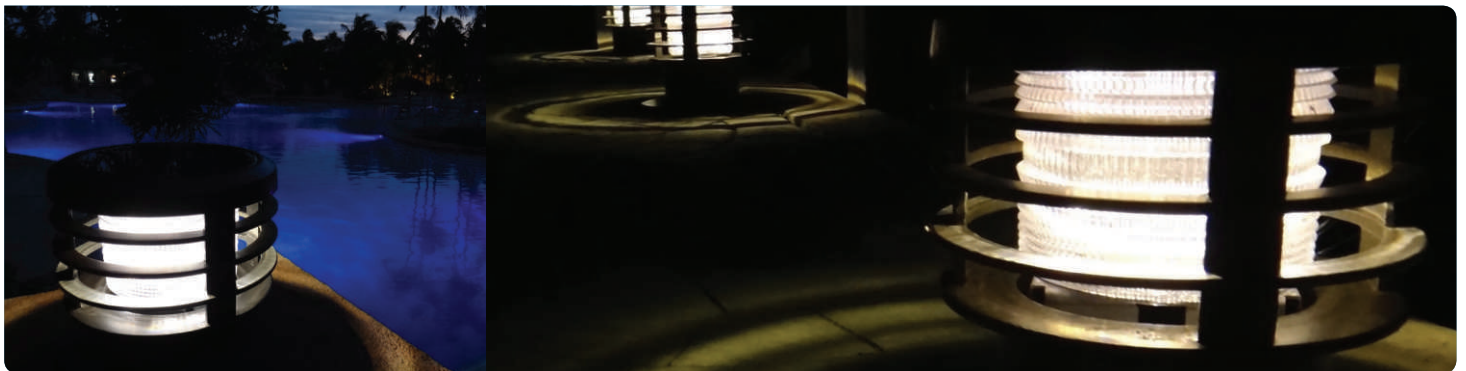
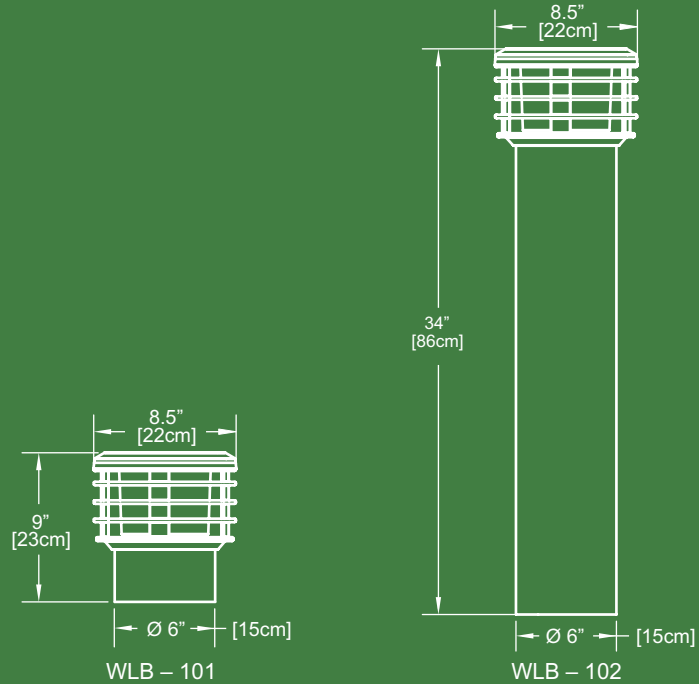


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### ORDER MATRIX

Series	Height	Finish	Distribution	LED Color	Lighting Profile	Options
M1	101- 9"	BK- Black	SYM- Symmetrical	30K- 3000K	00- Dusk till dawn	WOB- Ship Without Battery
	102- 34"	BZ- Bronze		43K- 4300K	01- Dark +6 hours then off	SEC- Security Fasteners
		SV- Silver		55K- 5500K	02- Dark +6 hours then 30%	
		WH- White			03- Dark +5 hours, off, Dawn -1 hour	
		CC- Custom			04- Dark +5 hours, 30%, Dawn -1 hour	

Notes:  
- Specifications subject to change without notice

