



Work. Play. Solar.

# Lunasol P2 Solar LED Bollard

## Solar Powered LED Bollard

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

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

The Lunasol P2 Solar series solar powered LED bollard is an ideal choice for low level architectural and commercial pathway and landscape lighting applications. Visual appeal combined with high quality construction and unequalled solar power performance make the Lunasol P2 an excellent fit where quality low level lighting is required.

Utilizing solar power and LED lighting the Lunasol P2 bollards are fully self contained and offer significant benefits over typical wired bollards:

- Low installed costs and minimal site impacts with no trenching, cabling or wiring
- Minimal ongoing costs with no electricity bills or bulbs to change
- Immune from power outages
- Provide a visibly green statement with no ongoing carbon emissions

The performance of the Lunasol P2 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

<b>Solar Module:</b>	High impact, UV resistant, polycarbonate encapsulation High-efficiency mono-crystalline cells Integrated into bollard housing Used for day/night detection (no photocell required)	<b>LEDs and Optics:</b>	Three high-output Cree LEDs 50,000 hour L70 lifetime Warm (3000K), neutral (4300K), cool (5500K) color temperatures available Type III and Type V high efficiency, cut-off optics Typical lumen output of 130 lumens
<b>Energy Management System (EMS):</b>	High efficiency Maximum Power Point Tracking (MPPT) charge controller Micro-controller based technology Includes high-efficiency LED driver Integrated into bollard housing Designed to automatically manage lighting performance based on environmental conditions and lighting requirements Patent pending	<b>Mechanical Construction:</b>	Cast, low copper aluminum housing Extruded, low copper aluminum post Stainless fasteners with security fastener option High strength mounting plate Architectural grade, super durable, TGIC powder coat with Alodine undercoat Four standard colors with custom colors available
<b>Battery:</b>	Pure lead, spiral wound, absorbed glass mat (AGM) Superior cyclic performance High temperature tolerance 10 year design life Contained within bollard post Simple battery changes when required	<b>Factory Set Lighting Profiles:</b>	On at dusk off at dawn On at dusk, turn off after 6 hours On at dusk, dim to 30% after 6 hours till dawn On at dusk, off after 5 hours, on 1 hour before dawn On at dusk, dim to 30% after 5 hours, on 1 hour before dawn

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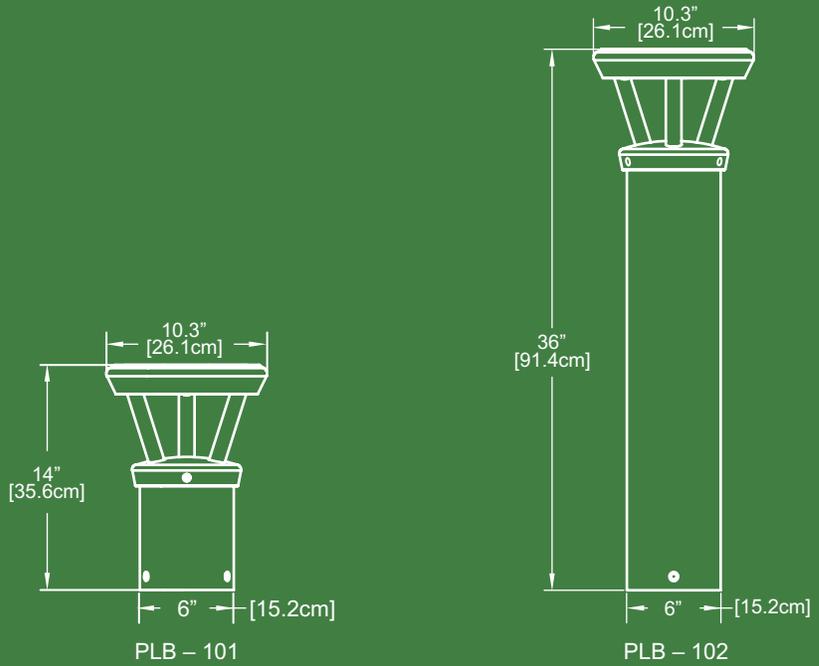


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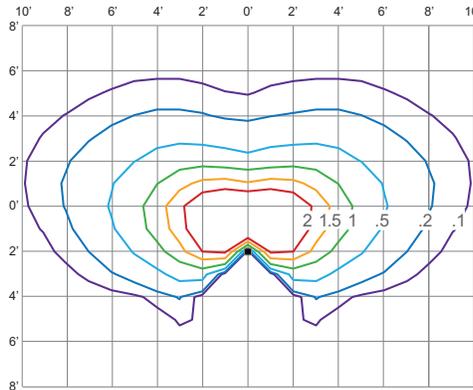


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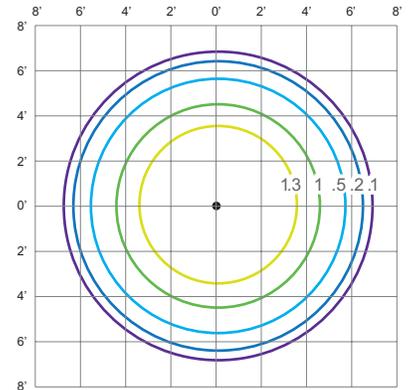
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### PHOTOMETRICS



PLB - 102 Type III



PLB - 102 Type V

### ORDER MATRIX

Series	Height	Finish	Distribution	LED Color	Lighting Profile	Options
P2	101- 14"	BK- Black	ASM- Type III	30K- 3000K	00- Dusk till dawn	WOB- Ship Without Battery
	102- 36"	BZ- Bronze	SYM- Type V	43K- 4300K	01- Dark +6 hours then off	SEC - Security Fasteners
		SV- Silver		55K- 5500K	02- Dark +6 hours then 30%	
		WH- White		AMB- Amber	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  
 - All light levels in foot candles (fc) with 4300K color temperature and 130 lumen output  
 - To convert to lux multiply light level by 10.7

