

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

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



Approved by the Florida Fish and Wildlife Conservation Commission and the U.S. Fish and Wildlife Service through their Wildlife Lighting Certification Program, the PLB Amber Series minimizes adverse impacts of lighting on wildlife. The amber LED, 180 degree back light shield and low mounting height options reduces light pollution.

PLB solar powered bollards are fully self-contained and offer significant advantages over typical wired bollards:

- Low installation, remediation and electrical design costs
- No electricity bills and no scheduled maintenance
- Immune from power outages
- A sustainable choice without recurring carbon emissions

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The SLC in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.

## TECHNICAL SPECIFICATIONS

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

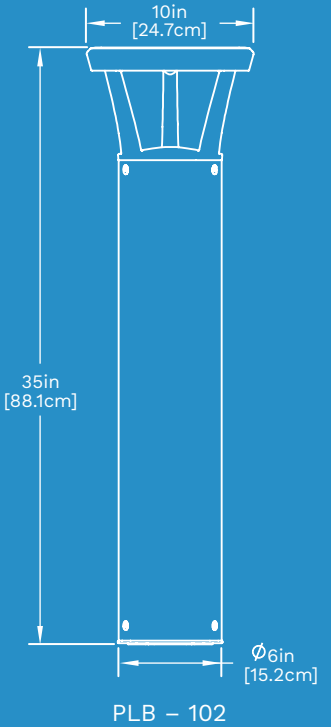
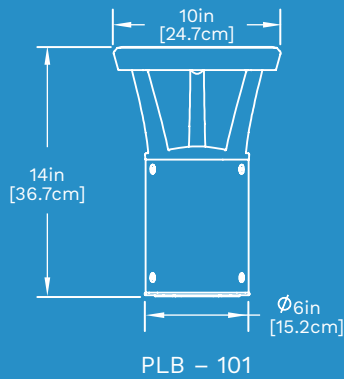
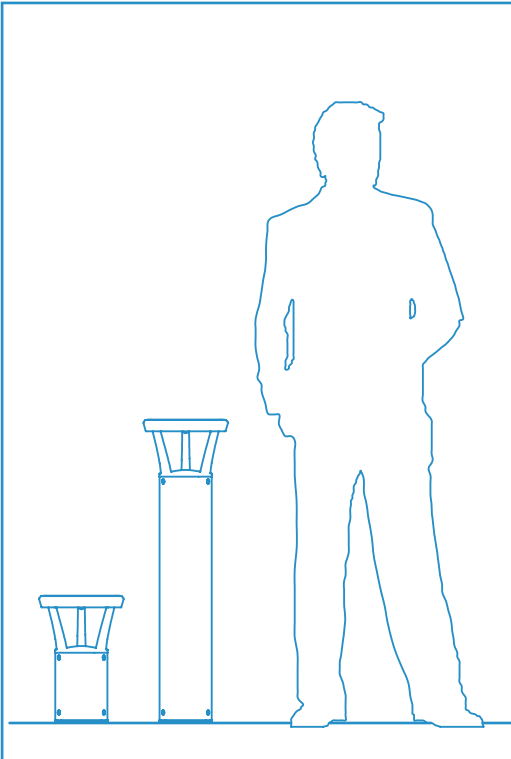
- Solar Lighting Controller (SLC):**
- High-efficiency maximum power point tracking (MPPT) charge controller
  - Micro-controller based technology
  - High-efficiency LED driver
  - Integrated into bollard housing
  - Designed to automatically manage lighting performance based on environmental conditions and lighting requirements

- Battery:**
- High-performance lithium (LiFePO4)
  - Exceptional 8 – 10 year lifecycle
  - High temperature tolerance
  - Contained within bollard post
  - Easy battery changes
  - Plug-and-play, sealed connector

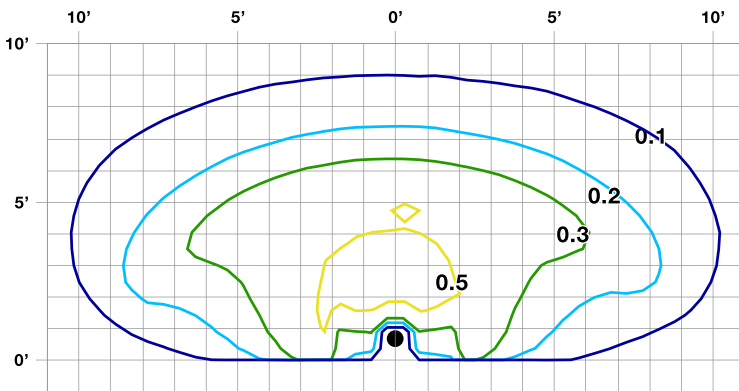
- LEDs and Optics:**
- High-output Cree LEDs
  - Type 3 full cutoff high-efficiency optics
  - 100,000 hour L70 lifetime
  - Amber LED (585nm to 595nm)
  - IP67 protection
  - Type 3 with optional 180° backlight shield

- Mechanical Construction:**
- Cast, low copper aluminum housing
  - Extruded, low copper aluminum post
  - Stainless fasteners with security fastener option
  - High-strength mounting base
  - Architectural grade, super-durable, TGIC powder coat
  - Four standard colors with custom colors available

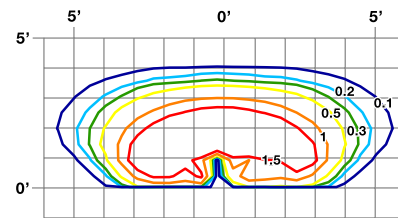
- Factory Set Lighting Profiles:**
- On at dusk, off at dawn
  - On at dusk, turn off after 6 hours
  - On at dusk, dim to 30% after 6 hours till dawn
  - On at dusk, off after 5 hours, on 1 hour before dawn
  - On at dusk, dim to 30% after 5 hours, on 1 hour before dawn



**PHOTOMETRICS** (IES files available on our website)



PLB 102 - TYPE 3



PLB 101 - TYPE 3

**Notes:**

- Specifications subject to change without notice
- All light levels in foot candles (fc) with Amber color temperature and 60 lumen output
- To convert to lux multiply light level by 10.7
- Photometric plots represented with back light shield installed

**ORDER MATRIX**

Series	Height	Finish	Distribution	LED Color	Lighting Profile	Options
PLB	101 - 14"	BK - Black	ASM - Type 3	AMB - Amber	00 - Dusk till dawn	BLS - Backlight Shield
	102 - 36"	BZ - Bronze			01 - Dark +6 hours then off	SEC - Security Fasteners
		SV - Silver			02 - Dark +6 hours then 30%	PA - Pre-ship Anchor Bolts
		WH - White			03 - Dark +5 hours, off, dawn -1 hour	
	CC - Custom	04 - Dark +5 hours, 30%, dawn -1 hour (default)				

