FIRSTLIGHT TECHNOLOGIES

PLB Series

SOLAR POWERED LED BOLLARD

Project:

Type: Quantity:

The PLB series solar powered LED bollard is ideal for architectural and commercial pathway applications. The stylish, contemporary design combined with high quality construction and unequalled solar powered performance make the PLB series an excellent fit where quality lighting is required.

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 ($LiFePO_4$)
- Exceptional 10+ year lifecycle
- High-temperature tolerance
- Contained within bollard post
- Designed for easy battery changes when required
- Plug-and-play, sealed connector

Wireless Controls:

- Easy-to-use interface via iOS smartphone app
- Configure and control lighting profiles
- Adjust dusk and dawn thresholds

LEDs and Optics:

- Greater than 100,000 hour L70 lifetime LED
- Extra Warm White (2700K), Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available
- Type 3 and Type 5 full cut-off high efficiency optics
- Typical lumen output 450 lumens
- Wildlife-friendly amber option available

Mechanical Construction:

- Cast, marine-grade, corrosion resistant aluminum housing
- IP67 protection
- 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:

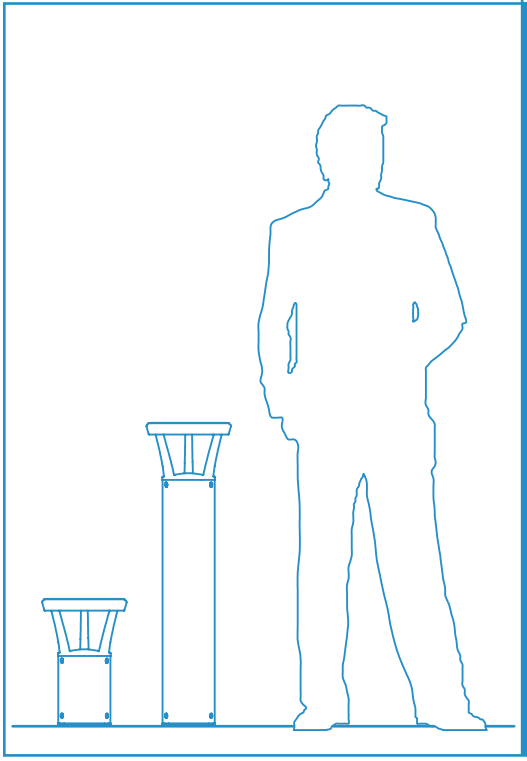
- 11 standard duration profiles available
- Real-time lighting profile options available
- See lighting profile sheet for all options
- Lighting profiles are field configurable with app

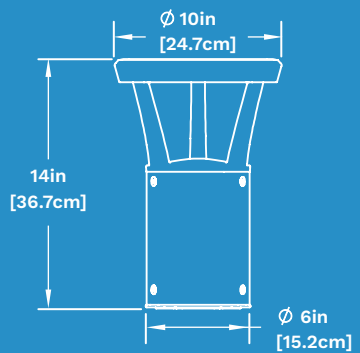
© Copyright First Light Technologies Ltd.

FIRSTLIGHT TECHNOLOGIES

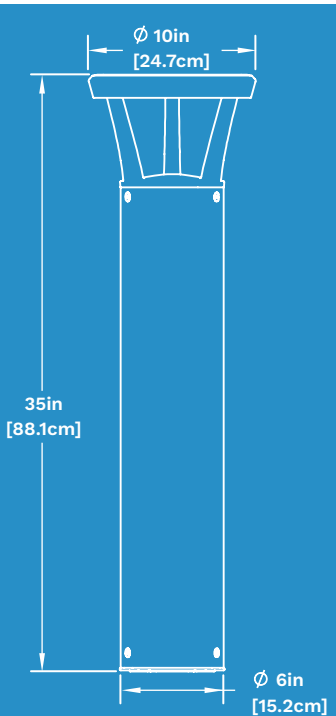
PLB Series

SOLAR POWERED LED BOLLARD



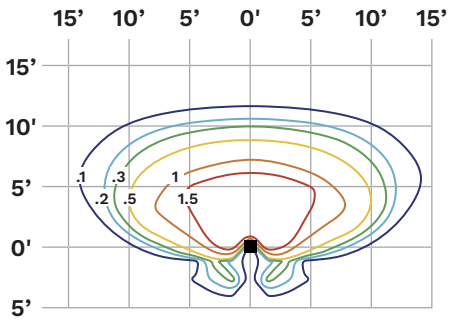


PLB – 101

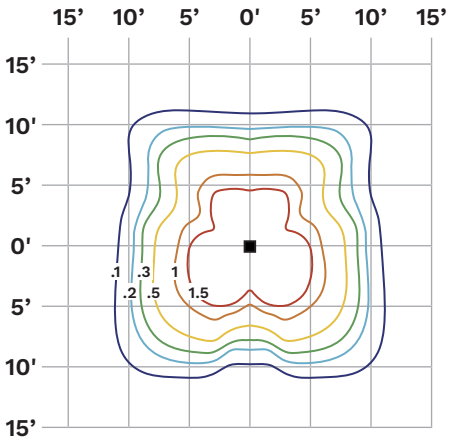


PLB – 102

PHOTOMETRICS (IES files available on website)



Type 3



Type 5

Notes:

- Photometrics based on PLB 102 mounting height
- All light levels in foot candles (fc) with 4000K color temperature and typical lumen output
- To convert to lux multiply light level by 10.7
- Typical lumen levels based off of Type 5 optic with the default profile using neutral white LEDs
- Contact us for help in choosing the right lighting profile and distribution
- Specifications subject to change without notice

ORDER MATRIX

Series	Height	Finish	Distribution	LED	Lighting Profile (Full list on website)	Options
PLB	**101** - 14"	**BK** - Black	**ASM** - Type 3	**XW** - 2700K	**00** - On at dusk, off at dawn	**SEC** - Security Fasteners
	102 - 35"	**BZ** - Bronze	**SYM** - Type 5	**WW** - 3000K	**04** - On at dusk, dim to 30% after 5 hours, brighten to 100% 1 hour before dawn (DEFAULT)	**PA** - Pre-Ship Anchor Bolts
		SV - Silver		**NW** - 4000K	**09** - On at dusk, dim to 30% after 3 hours, brighten to 100% 1 hour before dawn, off at dawn	**BLS** - Backlight Shield
		WH - White		**AMB** - Amber	**TX0000X0000** - T=Real-time based lighting profile. X=Choose O (Off), or D (Dim) or B (Bright).	
		CC - Custom			0000= Choose event time between 00:00 and 23:59. Second event optional	

2021 WINNER LIGHTING DESIGN AWARDS · Illuminating Engineering Society · RoHS COMPLIANT

© Copyright First Light Technologies Ltd.