FIRSTLIGHT TECHNOLOGIES

WLB Series

SOLAR POWERED LED BOLLARD

Project:

Type: Quantity:

WIRELESS CONTROL APP

The WLB series solar powered LED bollard is ideal for low level architectural/commercial way-finding, delineation and landscape lighting applications. The self-contained, simple, louvered design combined with high quality construction and unequalled solar powered performance make the WLB series an excellent choice when vertical illumination is required.

WLB 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 ▪ Fully 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 ▪ Microcontroller based system ▪ Includes 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 & Optics:	▪ High output Cree LEDs ▪ 100,000 hour L70 lifetime ▪ Extra Warm White (2700K), Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available ▪ Omni-directional light output with low glare, frosted lens ▪ Typical output of 130 lumens ▪ Wildlife-friendly amber option available
Mechanical Construction:	▪ Cast, low copper aluminum housing ▪ Extruded, low copper aluminum post ▪ Stainless fasteners with security fastener options ▪ High strength mounting base ▪ Architectural grade, super durable, TGIC powder coat
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

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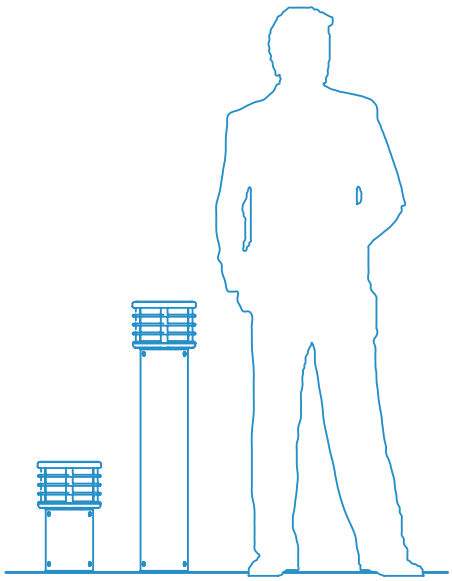

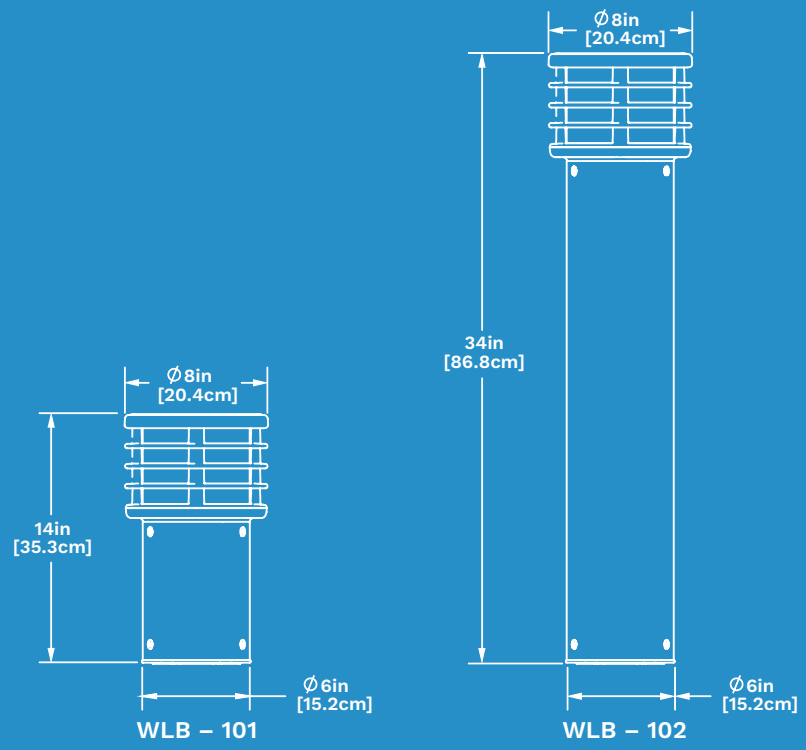

Notes:

- Specifications subject to change without notice
- Typical lumen levels based off the default profile using neutral white LEDs

ORDER MATRIX

Series	Height	Finish	Distribution	LED	Lighting Profile (Full list on website)	Options
WLB	**101** - 14”	**BK** - Black	**SYM** - Symmetrical	**XW** - 2700K	**00** - On at dusk, off at dawn	**SEC** - Security Fasteners
	102 - 34”	**BZ** - Bronze		**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	
		WH - White		**AMB** - Amber	**TX0000X0000** - T=Real-time based lighting profile. X=Choose O (Off), or D (Dim) or B (Bright). 0000= Choose event time between 00:00 and 23:59. Second event optional	
		CC - Custom				

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