FIRSTLIGHT TECHNOLOGIES

IPL Series

SOLAR LED INTEGRATED ARCHITECTURAL AREA LIGHT

Project:

Type: Quantity:

WIRELESS CONTROL APP

The IPL series solar LED luminaire is an ideal choice for architectural, commercial, recreational pathway and public space lighting applications. The self-contained, contemporary, rectilinear design smartly embraces modern solar power, adaptive control and LED technologies. With robust construction and unequalled performance, the IPL series is an excellent fit wherever high-quality, full-cutoff lighting and minimal visual clutter is required.

Using solar power and LEDs, the IPL is completely self-contained and offers significant benefits over grid-based lights including:

- Cost-effective design that ships fully assembled and installs in minutes
- Wireless control & communication with your light
- Low installation cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Operates entirely independent from the grid and is immune to 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-efficiency monocrystalline cells ▪ Inconspicuously integrated into the top of luminaire ▪ Used for day/night detection (no photocell required)
Solar Lighting Controller (SLC):	▪ High-efficiency Maximum Power Point Tracking (MPPT) ▪ Microcontroller based technology ▪ Includes high-efficiency LED driver ▪ Multiyear data logging ▪ Integrated into luminaire housing ▪ Designed to automatically manage lighting performance based on environmental conditions and lighting requirements ▪ Potted weatherproof construction
Battery:	▪ High-performance lithium ($LiFePO_4$) ▪ Exceptional 10+ year lifecycle ▪ High-temperature tolerance ▪ Contained within luminaire housing ▪ Designed for easy battery changes when required

LEDs and Optics:	▪ 100,000 hour L70 lifetime ▪ Extra Warm White (2700K), Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available ▪ High-efficiency type 2, 3, 4, 4F, and 5, full cut-off optics ▪ Typical lumen output of 1250 lumens ▪ Optional backlight shield ▪ Wildlife-friendly amber option available
Mechanical Construction:	▪ Cast, low copper aluminum design ▪ Stainless fasteners with security fastener option ▪ Architectural grade, super durable, TGIC powder coat ▪ Four standard colors with custom colors available
Lighting Profiles:	▪ 11 standard profiles options ▪ Real-time based lighting profiles available ▪ See lighting profile sheet for all options ▪ Motion sensing capabilities optimize performance based usage ▪ Lighting profiles and motion sensing options are field configurable with app
Wireless Controls:	▪ Bluetooth low energy interface with iOS app ▪ Provide configuration and control of lighting profiles ▪ Adjust dusk and dawn thresholds ▪ Motion sensing capabilities optimize performance based on usage

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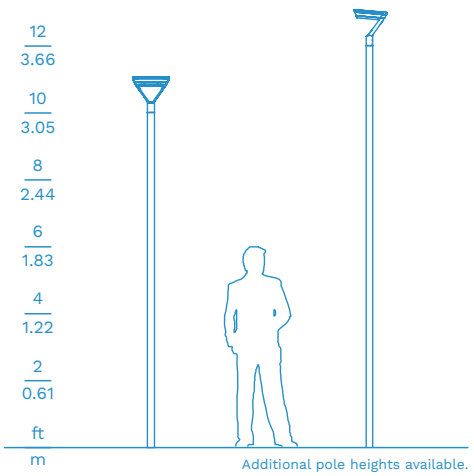
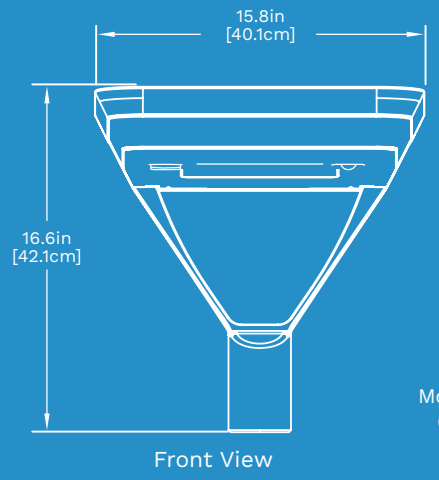
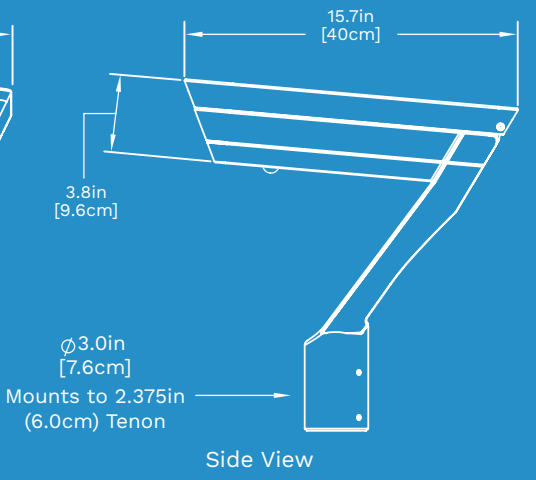


EPA: 0.65ft² (0.06m²) | Weight: 24.7 lbs (11.2 kg) including battery

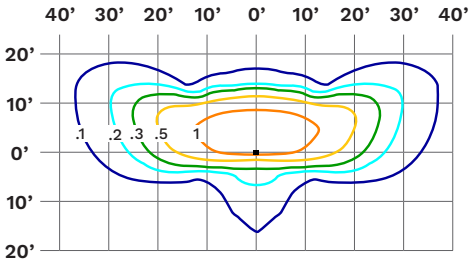


Front View

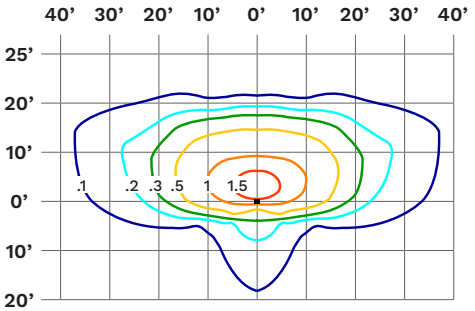


Side View

PHOTOMETRICS (IES files available on website)



Type 2



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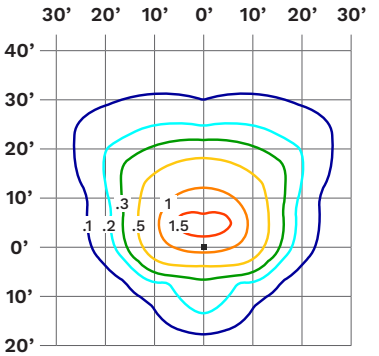

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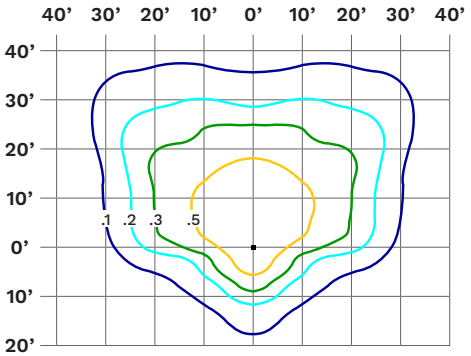
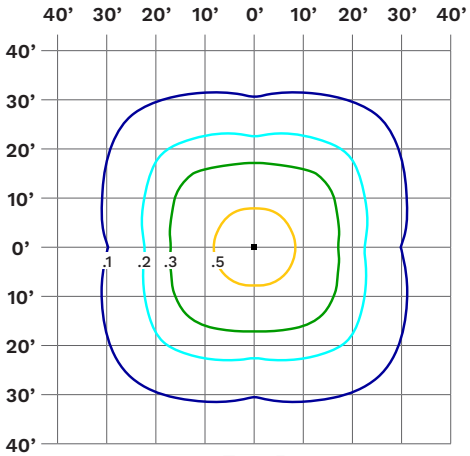


Type 4F



Type 5

Notes:

- Photometrics based on 12 ft mounting height
- Light levels in foot candles are calculated using 1250 lumens at 4000K color temperature
- To convert to lux multiply light levels 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
- Motion sensing is ON by default
- Specifications subject to change without notice

ORDER MATRIX

Series	Mounting	Finish	Distribution	LED	Lighting Profile (Full list on website)	Options
IPL	**PTM** - Post Top Mount	**BK** - Black	**T2** - Type 2	**XW** - 2700K	**00** - Dusk till dawn	**SEC** - Security Fasteners
		BZ - Bronze	**T3** - Type 3	**WW** - 3000K	**09** - On at dusk, 100% for 3 hours, dim to 30%, brighten to 100% one hour before dawn, off at dawn (DEFAULT)	**MSO** - Motion Sensor Off
		SV - Silver	**T4** - Type 4	**NW** - 4000K		**BLS** - Backlight Shield
		WH - White	**T4F** - Type 4F	**AMB** - Amber	**TX0000** - On at dusk until time between 1800 & 0600. X = O (Off) or D (Dim). 0000 = time to dim or turn off.	
		CC - Custom	**T5** - Type 5			

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