

FIRSTLIGHT

TECHNOLOGIES

BFL Series

SOLAR LED STREET & AREA LIGHT

Project: _____

Type: _____

Quantity: _____

The BFL Series solar LED street light is a great fit for residential and collector street lighting as well as parking lot lighting applications. The self-contained, unobtrusive solar engine design integrates its solar power, battery and adaptive control capabilities into a compact and simple form. This, combined with an efficient LED fixture, makes the BFL Series an excellent fit where high performance, full cutoff and cost-effective lighting is required.

- With the latest solar, LED and lithium battery technology, the BFL series offers significant advantages:
- Cost-effective design ships fully assembled and installs in minutes
- Low installation cost and minimal site impact with no trenching or cabling
- Wireless control & communication with your light
- Minimal ongoing costs with no electrical bills
- 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 controller in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing an unsurpassed level of lighting performance and reliability.



WIRELESS
CONTROL APP

TECHNICAL SPECIFICATIONS

- Solar Module:**
- High-efficiency monocrystalline cells
 - Inconspicuously integrated into the low profile solar engine
 - Used for day/night detection (no photocell required)

- Solar Lighting Controller (SLC):**
- High-efficiency, maximum power point tracking (MPPT)
 - Microcontroller based technology
 - Multiyear data logging
 - Integrated into solar engine housing
 - Designed to adaptively manage lighting performance based on environmental conditions and lighting requirements

- Battery:**
- High-performance lithium (LiFePO4)
 - Exceptional 10+ year lifecycle
 - High temperature tolerance
 - Conotained within solar engine housing
 - Designed for easy battery changes

- Mechanical:**
- Solar engine housing formed from marine-grade, corrosion resistant, aluminum alloy
 - Internal top of pole mount structure
 - Toolless access
 - Architectural grade, durable, TGIC powder coat

- LEDs and Optics:**
- 100,000 hour L70 lifetime LED
 - Extra Warm White (2700K), Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available
 - High-efficiency type 2S, 2M, 3S, 3M, 4, 5 optics
 - Full cutoff optics and Dark-Sky approved at 3000K
 - Typical lumen output of 6400 lumens
 - Integrated weatherproof, high-efficiency, dimmable LED driver

- Factory Set Lighting Profiles:**
- Real-time based lighting profiles allow you to comply with the Model Lighting Ordinance, dimming after curfew, or during periods of low pedestrian conflict
 - 11 standard duration based lighting profiles available
 - Lighting profiles are field configurable with app
 - Visit our website for all options

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

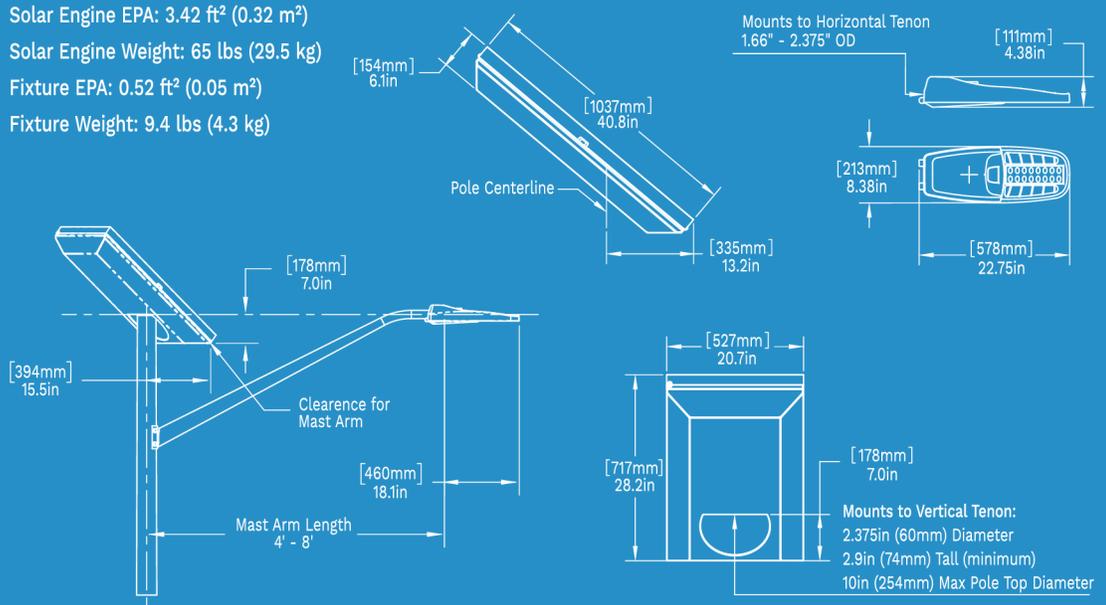
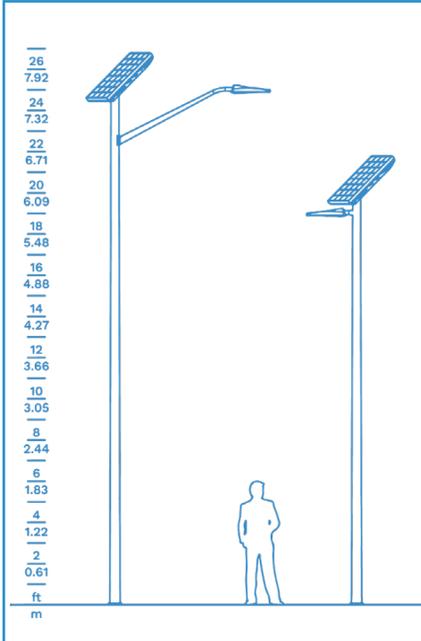
- Pole Options:**
- Various pole height and mast arm length options available
 - Pre-drilled for seamless installation

Solar Engine EPA: 3.42 ft² (0.32 m²)

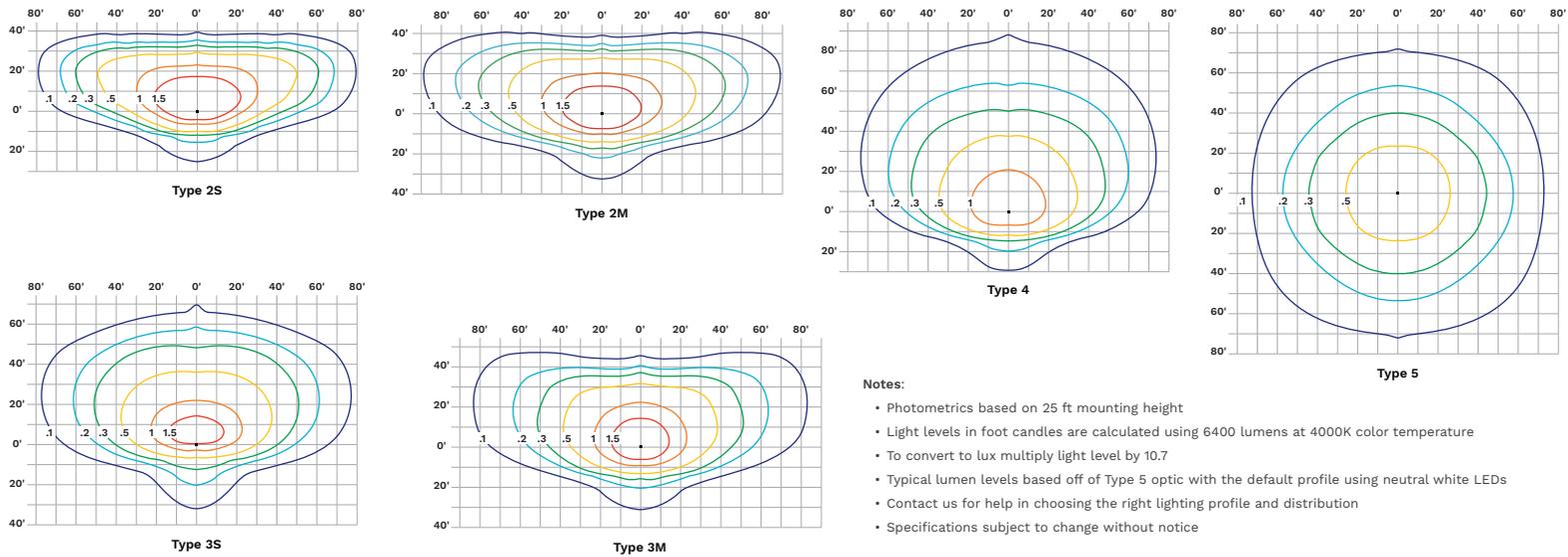
Solar Engine Weight: 65 lbs (29.5 kg)

Fixture EPA: 0.52 ft² (0.05 m²)

Fixture Weight: 9.4 lbs (4.3 kg)



PHOTOMETRICS (IES files available on our website)



- Notes:**
- Photometrics based on 25 ft mounting height
 - Light levels in foot candles are calculated using 6400 lumens at 4000K color temperature
 - 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	Solar Engine			Fixture				
	Mounting	Finish	Lighting Profiles (Contact us or visit our website for more options)	Mounting	Finish	Distribution	LED Colors	Options
BFL	TM - 2.375 Inch Tenon Mount	BK - Black	TM2200B0600 - On at dusk > dim to 50% at 10:00pm > brighten to 100% at 6:00am > off at dawn (Default)	HT - Horizontal Tenon	BK - Black	T2S - Type 2S	XW - 2700K	BLS - Backlight Shield
		BZ - Bronze	00 - Dusk to dawn		BZ - Bronze	T2M - Type 2M	WW - 3000K	
		GY - Gray	02 - On at dusk > dim to 30% after 6 hours > off at dawn		GY - Gray	T3S - Type 3S	NW - 4000K	
		WH - White	09 - On at dusk > dim to 30% after 3 hours > brighten to 100% 1 hour before dawn > off at dawn		WH - White	T3M - Type 3M		
			TX0000X0000 - T=Real-time based lighting profile. X=Choose O for off, L for Low (30%) or M for Medium (50%) or B for Bright. 0000=choose event time between 00:00 and 23:59. Second event optional.			T4 - Type 4		
					T5 - Type 5			