FIRSTLIGHT TECHNOLOGIES

BFL Series

SOLAR LED STREET & AREA LIGHT

Project:

Type: Quantity:

WIRELESS CONTROL APP

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.

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

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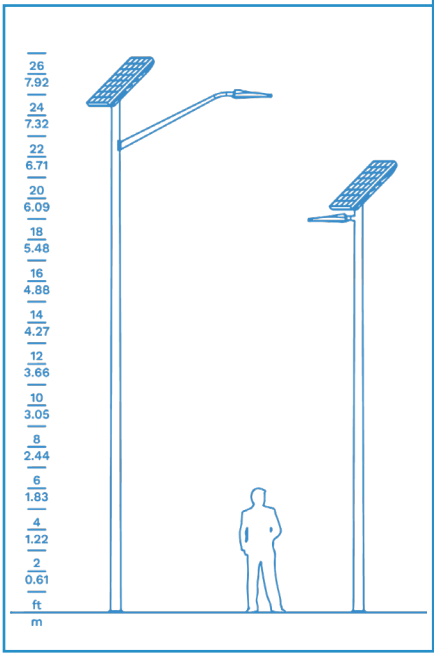
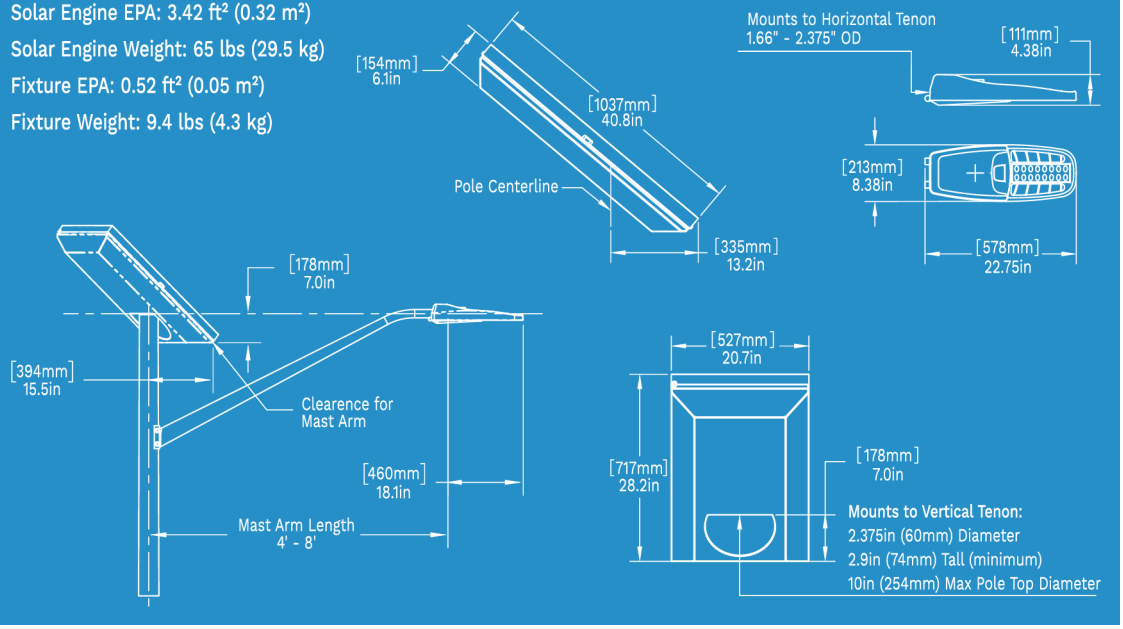
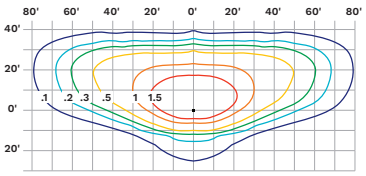


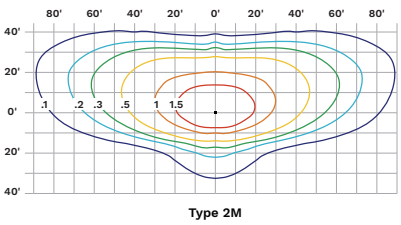
Solar Engine EPA: 3.42 ft² (0.32 m²)
Solar Engine Weight: 65 lbs (29.5 kg)
Fixture EPA: 0.52 ft² (0.05 m²)
Fixture Weight: 9.4 lbs (4.3 kg)



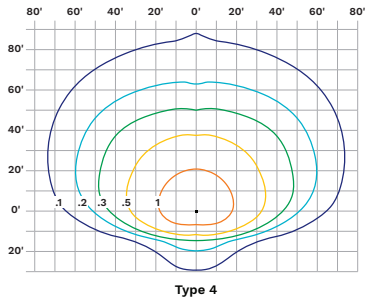
PHOTOMETRICS (IES files available on our website)



Type 2S



Type 2M



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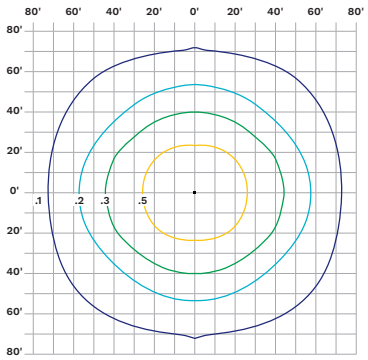

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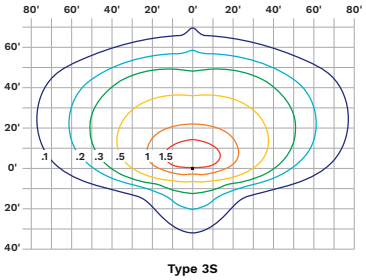
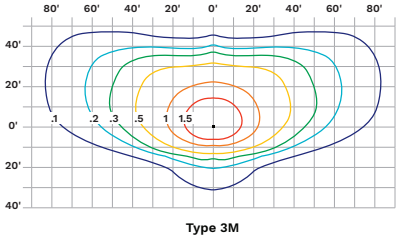


Type 3S



Type 3M

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

	Solar Engine			Fixture				
Series	**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		

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