STEALTH 80-23-EX

LED Solar Street Light

Solar Lighting International®

https://www.solarlightingitl.com

Welcome

Founded in 2006, Solar Lighting International® began with a bold vision: to deliver commercial-grade solar lighting and solar traffic signal solutions that exceed customer expectations through durability, reliability, and industrial-grade performance. This vision is made possible through our unwavering commitment to exceptional product quality, superior customer service, and comprehensive after-sales support.

Today, Solar Lighting International, Inc. stands as a global leader in the design and manufacture of commercial solar lighting products. With over two decades of experience, beginning with the innovative X-35 series solar streetlights, we have expanded our product portfolio to include the Stealth all-in-one solar lights and a wide range of commercial solar products. These include solar-powered streetlights, parking lot lights, pathway and walkway lights, and solar-powered traffic safety products. Solar Lighting International products are proudly designed and engineered in the United States, delivering quality and performance you can trust.

Global Presence

Solar Lighting International partners with select installing contractors and distributors across the United States, the Bahamas, Puerto Rico, the Turks & Caicos, Trinidad & Tobago, Oman, Suriname, El Salvador, Ecuador, and Bahrain.

Our international engineering and sales team offers expertise in project planning and execution, installation guidance, and technical support.

We take pride in our long-standing relationships with loyal and repeat customers, and invite you to become part of the Solar Lighting International family.

Stealth Solar Light Features and Benefits

- **Low Maintenance**- annual panel cleaning in most environments for reliable performance
- **Easy Programming:** User-friendly remote control for programming
- **Custom Optics:** Multiple lens options for light distribution
- **High-Efficiency** Mono-crystalline Solar Panels & MPPT Charge Controller
- **Long-lasting** Lithium Iron Phosphate LiFePO4 batteries
- **Adjustable** LED light bars up to 50° in both directions
- **Dual Motion Sensors**: Two Wide-angle motion sensors provide superior coverage over longer distances vs. a single PIR sensor.
- **IoT Ready** - Smart City control IoT remote management via 4G/5G for utility-scale projects
- **EXPANSION PANELS**- ORDER USING **P/N STEALTH II ESP-80** ADDS 60 WATTS EXTRA CHARGING
- **AC Charging Port-** optional AC charger available

SLI
Solar Lighting International®

Specifications

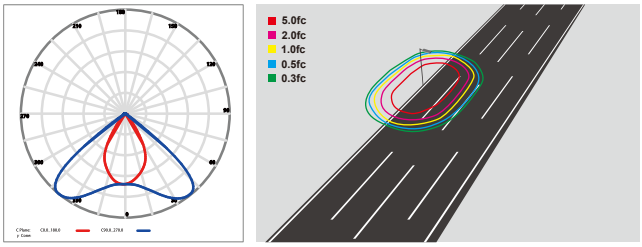
Product Model	STEALTH 80-23 EX | STEALTH 80-23 4040-EX	
Power	80W	
Lumen / LED Type	14,800 Lumens (Phillips 5050)	
Color Temperature	4000K / 5000K	
BUG Rating	B1-U0-G2	
Battery	$LiFePO_4$ 48AH,12.8V / 614.4Wh	
Solar Panel	Mono-crystalline | 65+2*30W Watt	
Light Dimensions	45.91"×34.98"×10.99" 1166×888.5×279mm	
Working Time	Up to 14 Hrs if fully charged, Alternate working modes and working times, ranges from 3 - 6 nights.	
Charging Time	Requires 6 hours of direct sunlight at optimal angle. Optimal direction is magnetic south and the optimal angle equals the latitude of the installation. Performance is reduced if product is installed different than the optimal angle or non-South facing.	
Beam Angle	Standard Distribution: 150 x 80°- Type III | Optional Lens available for Type I, Type II & Type IV Distribution	
PIR Sensor	2 PIR Sensors | Detection angle: 150° | Detection distance: up to 15 Meters / 50 Feet	
IP Class	IP66	
Working Temp	-20°F - 140°F / -23C°- 60C°	
Housing Material	Powder Coated Aluminum | Salt Spray Coating	
Weight N.W./G.W.	57 lbs. | 71 lbs. 26 kg | 32 kg **(Fixture)**	8.8 lbs. | 19.8 lbs. 4 kg | 9 kg **(Extended Panel)**
Box Dimensions	55.7"×19.5"×7.1" 1415×495×180m **(Fixture)**	42.9"×11.8"×6.5" 1090×300×165mm **(Extended Panel)**
Installation Height	15' - 25' or 5 - 8m	
Installation Spacing	75' - 100' or 23 - 30m	
EPA	6	
Warranty	3 years **	

* Default lens is Type III, other options available. **
Prorated if not installed per optimal instructions.

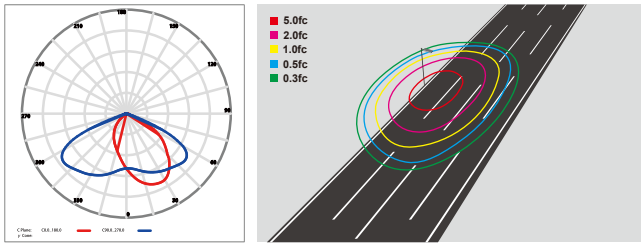
California Residents: Prop 65 Warning
Warning:
Cancer and Reproductive Harm
Visit: www.p65warnings.ca.gov

Photometrics

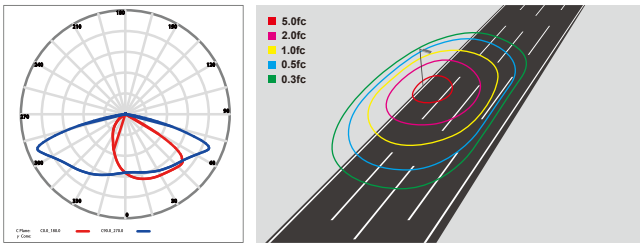
60×100°（TYPE Ⅰ-VS）



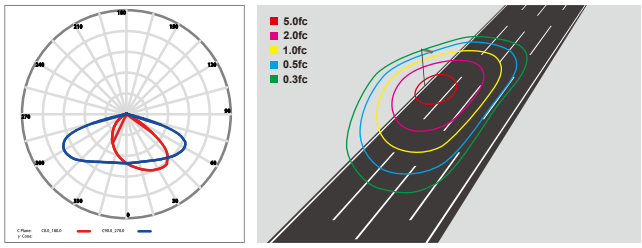
70×135°（TYPE Ⅱ-S）



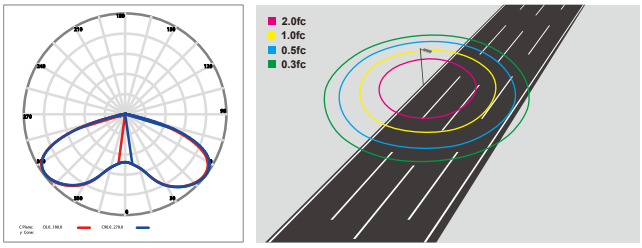
75×150°（TYPE Ⅲ-M）



80×150°（TYPE Ⅲ-S）

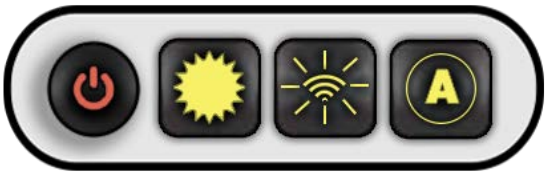


150°（TYPE VS）



* Type III default light distribution.
* All lens options available at additional cost, must specify at time of order.
* Fixture Mounting at 20Feet. Fixture tested at full power.

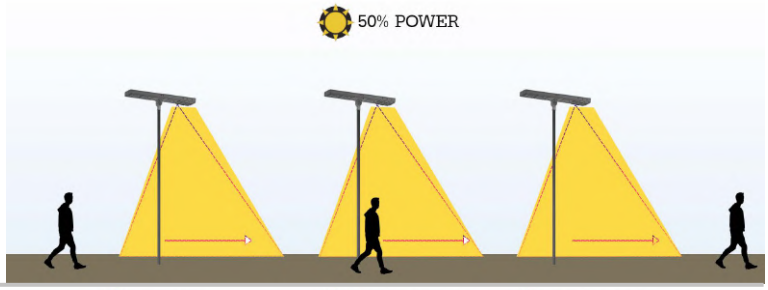
Solar Controller Modes



Power Button

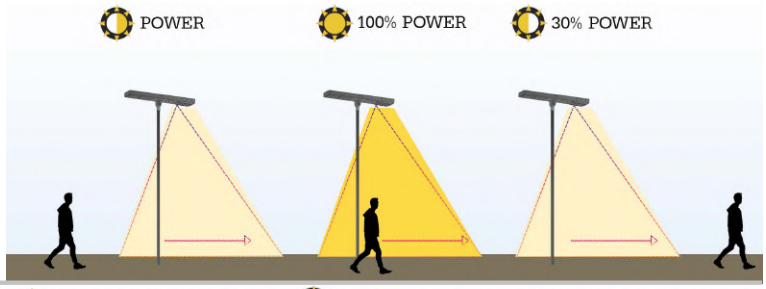
Constant Lighting Mode

Operates at 50% brightness from dusk to dawn or until the battery is depleted. This is the default setting.



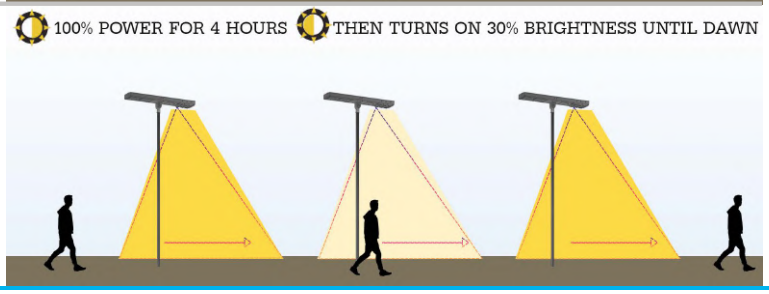
Sensor Mode

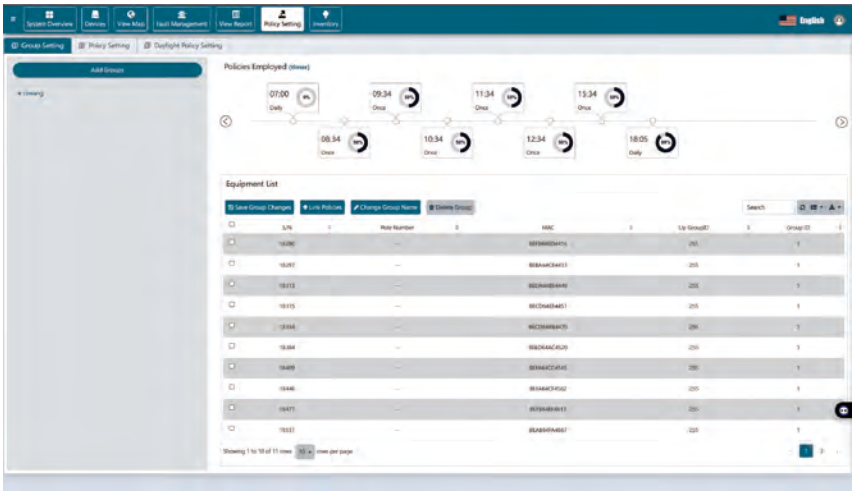
Lights operate at 30% brightness by default. Motion will activate the light to increase to 100% brightness until no motion is detected for 30 seconds, then returns to 30%. Motion detection range up to 50 feet.

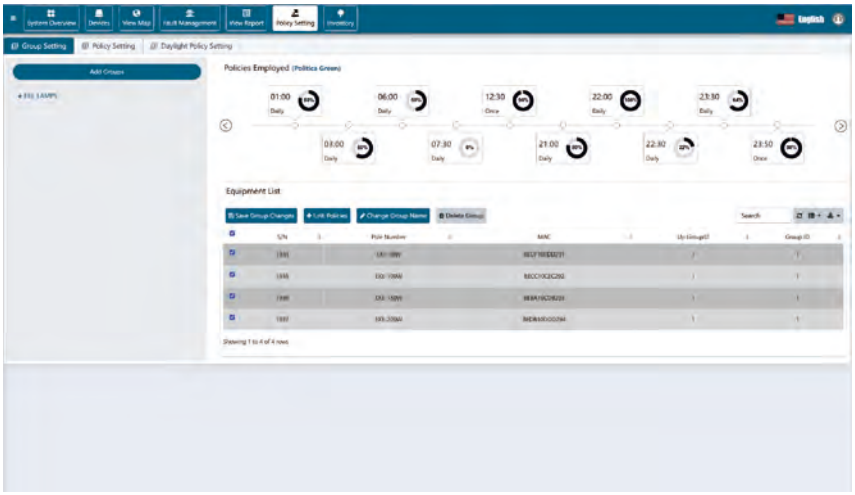


Customized Mode:

Up to 100% brightness for up to 4 hours, then automatically dims to 30% brightness until dawn or until battery is depleted.







IoT Integrated MPPT Smart Controller and Software Platform

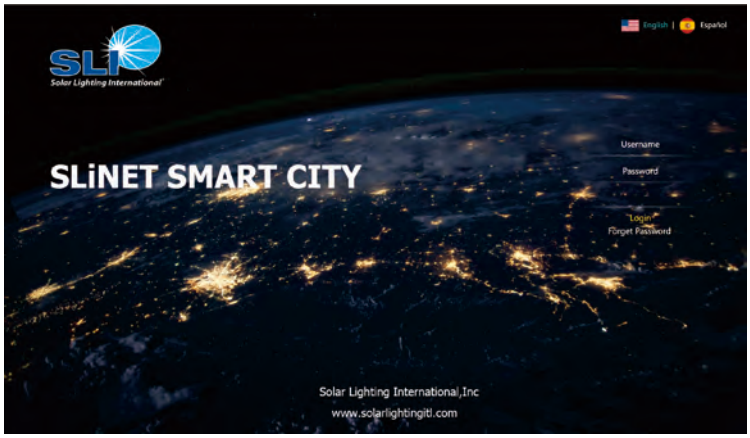
For clients requiring more advanced solutions, our Smart City technology IoT controller is a standard feature for Stealth solar lights. Our optional software platform and a 4G/5G connection expand the standard features of our smart MPPT solar controller, to provide:

- Real-time monitoring of the light fixture, solar array, battery status, controller data, and light output
- Adaptive brightness control
- Scheduled operation
- Maintenance Alarm notifications by email
- Carbon Offset data Logging
- Compatible with existing smart city IoT software
- Allows for monitoring of existing Municiple AC LED light fixtures with our optional node

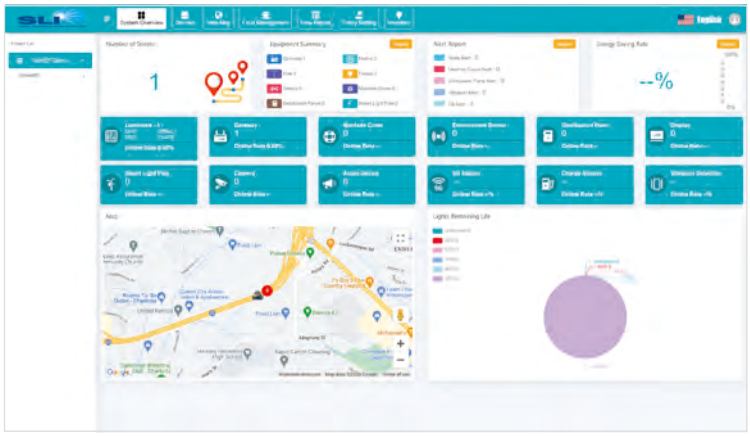
SLiNET Smart Control System

Smart City

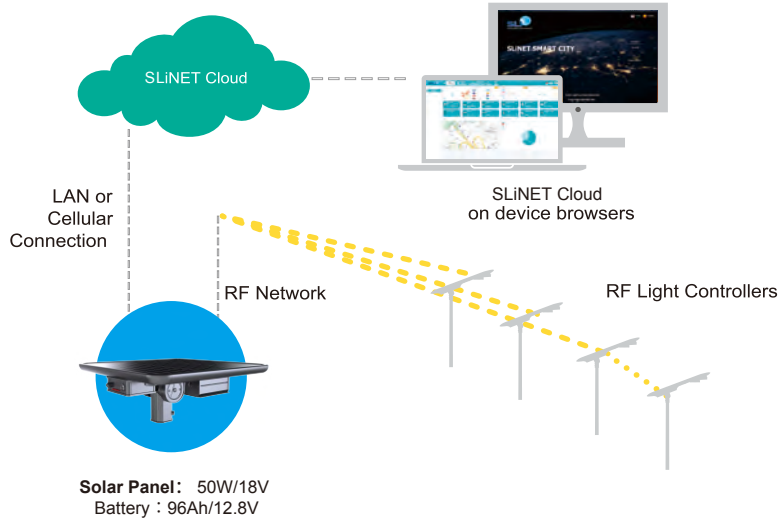
- Smart project control perfectly combines the solar street lighting fixture, Internet of things with wireless communication technology to achieve seamless monitoring and management of any project. Providing remote background data, real-time under-standing of the working status of each system component (street lights, photovoltaic panels, batteries, and controllers). This allows you to know the system usage from the client terminal, possibly thousands of miles away, without leaving the office. The ability to manage the operation and maintenance of your lighting project is unparalleled.



- The solar street light management system can pre-set one or more lighting modes according to different times of day, adjust to traffic flow, automatically turn on or off any light, and ad-just the switching time and illumination according to environmental requirements. This allows your project to achieve maximum energy savings. We can even integrate your current AC electrical lighting fixtures into our platforms for mixed-use control and monitoring.

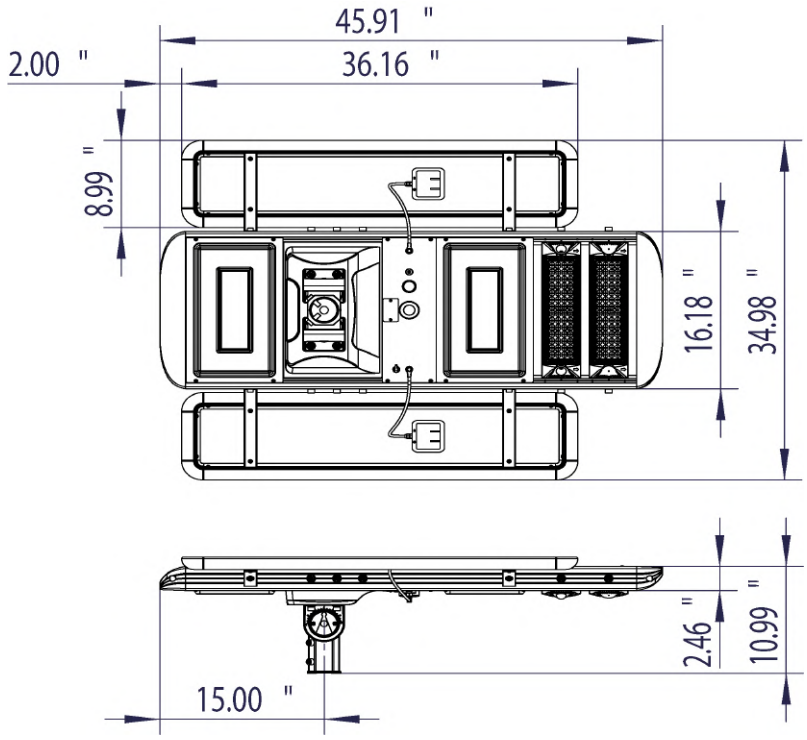
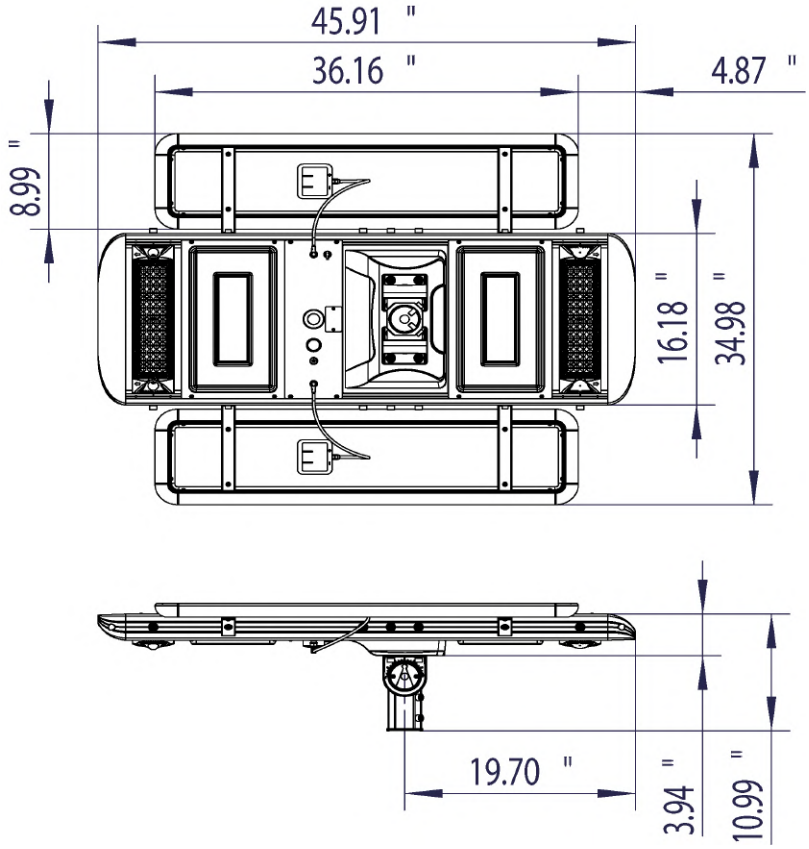


- Solar Lighting International's IoT-integrated system is composed of a street light, 4G Gateway, a single light node controller, and our smart cloud platform. The centralized controller and the gateway controller transmit the data collected from each fixture via the wireless communication network and 4G. The centralized controller uploads data to a secure cloud platform through GPRS data flow, allowing data access for mobile phones and computer terminal access.



Product Dimensions

80W



80W 40+40