

Installation Manual

HIGHLIGHT SPWSPDL-LA



Why us?

Innovative Technology

High-efficiency solar and advanced LEDs deliver superior performance, long life, and maximum ROI.

Photometric

We conduct photometric measurements on all our products to ensure optimal performance and compliance with industry standards

Versatile Lighting

We design and install solar-powered lighting systems tailored for all kinds of locations such as streets, parks, pathways, homes, etc.

Global Reach

Worldwide success proves our adaptability and regulatory expertise.

Sustainable Savings

These solutions enhance safety, promote sustainability and provide significant energy and cost savings.

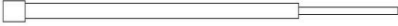

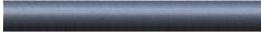




Warranty

SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.

Product image

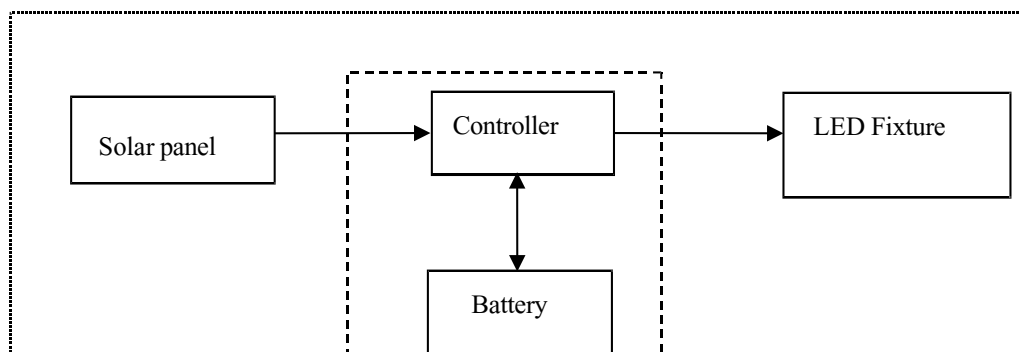


Component List

NO.	Item	Image	Unit	Qty	remark
1	Pole		Pc.	1	
2	LED Fixture with curved arm		Pc.	1	
3	Solar cylindrical		Pc.	1	
4	Hoop of solar Cylindrical (UP)		Pc.	1	
5	Hoop of solar Cylindrical (BOTTOM)		Pc.	1	
6	Battery		Pc.	1	Install inside of pole
7	Controller		Pc.	1	Install inside of pole

Work Principle

Under sunshine, solar panel convert energy to battery storage, then output via controller, drive LED light power as below.



Specifications

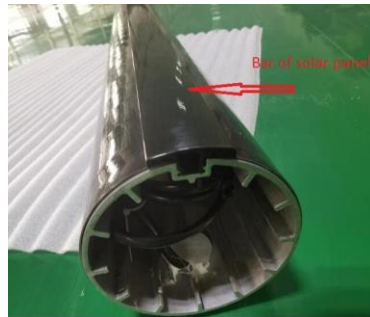
NO.	Item	Specifications
1	Light power	HIGHLIGHT SPWSPDL-LA with black finished, 30W LED, CCT 4000K
2	Battery	LifePO4 battery capacity: 12.8V/30Ah; install inside of bottom pole
3	Solar panel	100W CIGS flexible solar panel with aluminum alloy mold 25W Mono crystalline solar panel on the top of fixture
4	Pole	Coated with hot galvanized and electrostatic spraying process black finished. 18FT direct burial pole, black finish total 24FT height Pole and arm with black finish.
6	Work Temp	− 4°F ∼ 122°F
7	Wind resistance	27m/s (10 gales)
8	Switch model	Light control and time control
9	Controller	MPPT controller install inside of bottom pole

Installation

Before installation, prepare wrench, thin steel to drag off cable from inside of pole, protect pads etc to protect pole and solar panel.(better to install under good sunshine)

Solar Cylindrical Installation

1. Put pole on stand, maintenance door upwards, Bar of solar panel the same position with maintenance door.



2. Go through Hoop(down) from the top of pole as below picture



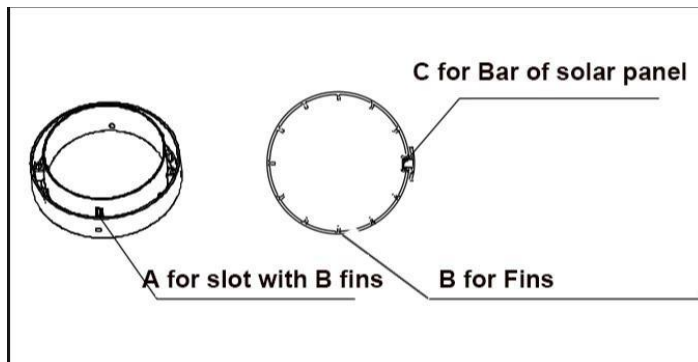
3. Put down section of solar cylindrical from top of pole(with cable position down forwards), go though cable of solar panel from pole(take off cable from solar cylindrical while go through solar cylindrical as below pictures:



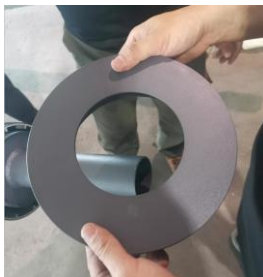
4. Insert solar cylindrical into down hoop as below picture.

Slot A position insert with B with fins, stuck solar cylindrical with hoop, fix screws with 0.23" Allen key, not rotated.

Be careful not damage cables.



5. Insert upper solar cylindrical installation way the same to down solar cylindrical, check below pictures:



Lamp Installation

1. Connect wires of solar cylindrical, after 10 seconds LED light turn off, then take of connect of solar cylindrical, LED light return on, take off protection film of solar panel, next reconnect of solar cylindrical.
2. Insert LED fixture into pole, use M6 screws fix on top of pole.

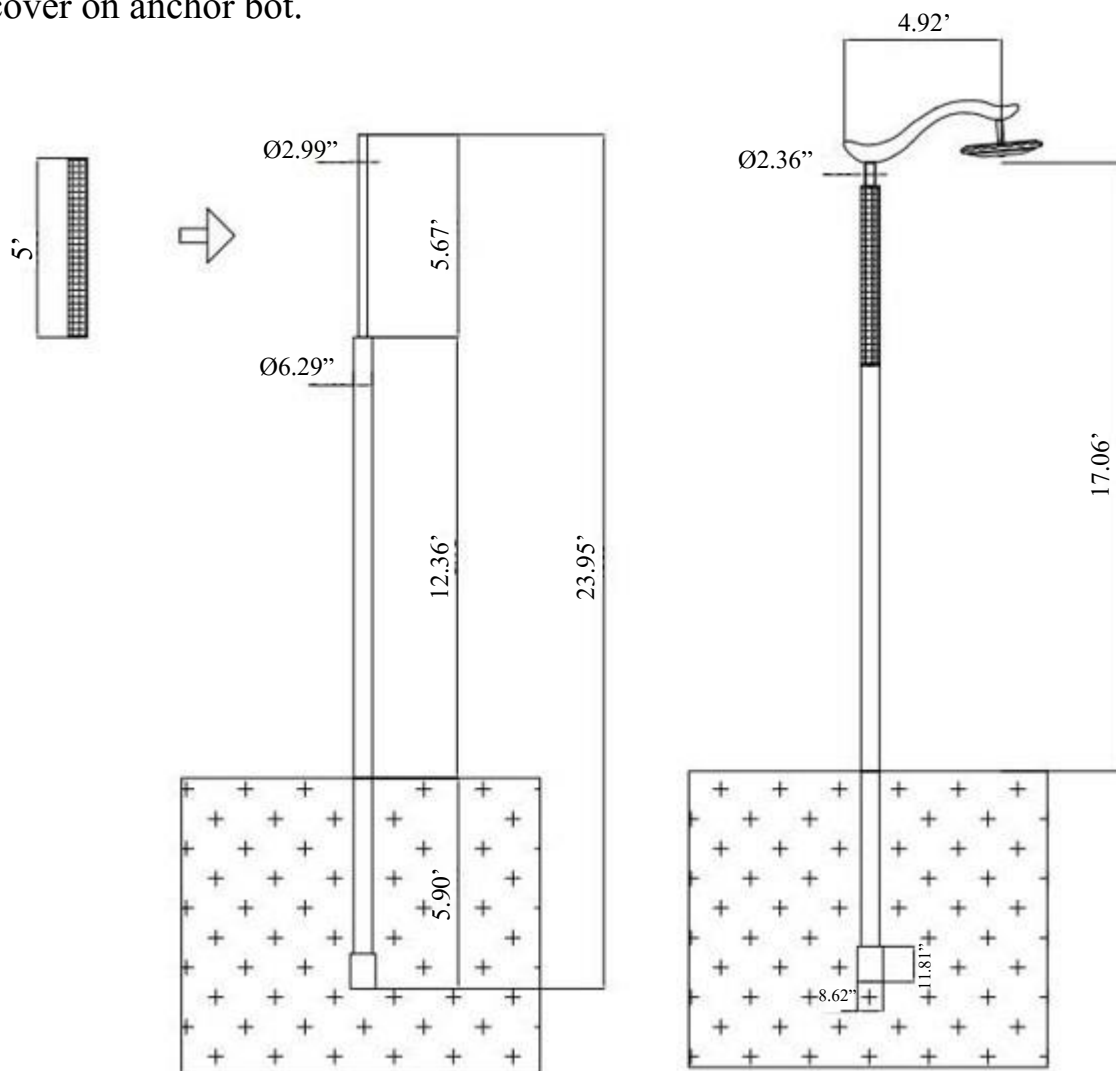
Concrete and anchor bolt installation

Dig one ditch L19.68" * W19.68" * H7.87"

Pole Installation

Prepare wrench before installation.

- 1 Before pole installation, confirm light and solar panel position. Connection (Bar of solar panel towards back side of sunshine).
- 2 Fix pole on anchor bolt.
- 3 Place flat washer through stud on whole light base and secure with nut lock. Use the pendant to adjust to ensure that the light pole is installed vertically.
- 4 Fix cover on anchor bot.

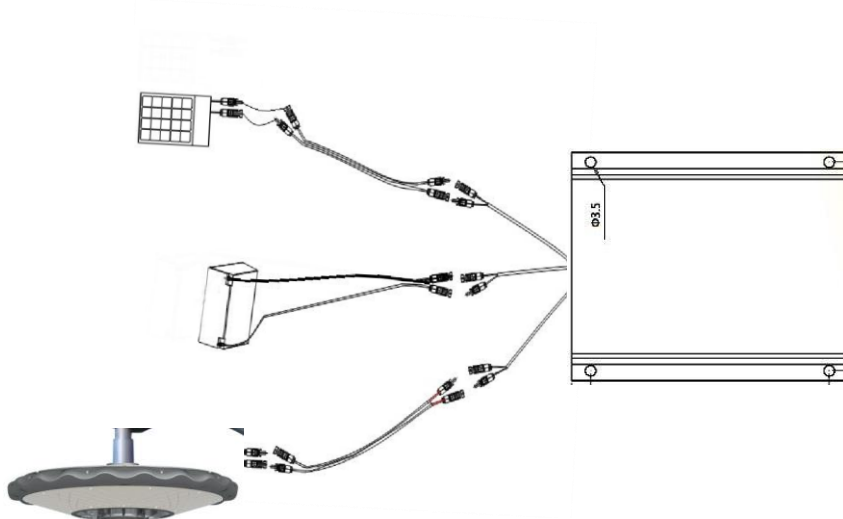


Wires of controller connections

1. Connect controller with LED light.
2. Put battery inside of pole box.
3. Connect controller with Battery, few seconds later light is on.
4. Connect controller with solar panel, some seconds later LED light turn off. When solar panel under covers.

When dark surroundings; LED light turns on.

5. Connect motion sensor with controller.



Notice

- Solar-powered LED street light run on the sun, and should be installed wherever possible in areas with good sunlight.
- Installation environment should not be shade or building shade, otherwise it will cause the lack of solar power and turn off the lights, long-term on the service life of lamps and lanterns will also bring adverse effects.
- Take care to install the whole light, preventing it from colliding with the thin-film solar panel and causing damage.
- Lamp and solar pane surface are fragile and cannot be touched by sharp objects or struck by gravity.



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