

LED SOLAR STREET LIGHT - STC SERIES - HIGH LUMEN

The ZLEDLighting solar-powered streetlight is a UL-certified solution designed for both commercial and residential lighting applications. Combining the latest in solar and LED lighting technology, ZLEDLighting offers eco-friendly illumination solutions that reduce energy consumption and promote sustainability.



- The world's first UL Listed Solar Street Light
- Solar panels with up to 22% efficiency and a lifespan of over 20 years.
- Grade A LiFePO4 Battery Pack, 2000+ full charging cycles.
- 4 days of autonomy in energy-saving mode during rainy and cloudy weather.
- Equipped with a microwave motion sensor and photocell sensor.
- Built-in Smart MPPT controller with overcharge, over-discharge, and overtemperature protection systems.
- Die cast A380 aluminum fixture housing is rust free
- Low temperature battery (-30°C/-22°F to 60°C/140°F) optional for cold areas. (Available for STC 30W only)
- UL Listed, Rated IP65, High Lumen and Motion Sensor
- Includes selection of one mounting option.
- 3 year warranty.

APPLICATIONS

The ZLEDLighting solar-powered streetlight is ideal for a wide range of applications, including residential streets, parks and recreational areas, commercial environments, roadways and highways, public transport stations, campus and school grounds, tourist attractions, or any remote locations with no access to conventional power. With its eco-friendly design and efficient lighting, it provides reliable illumination in areas where traditional power sources are unavailable.



- Residential Streets
- Parks and Recreational Areas
- Commercial Districts
- Roadways and Highways
- Public Transport Stations
- Campus and School Grounds
- Tourist Attractions
- Any remote locations that have no access to conventional power

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LIGHT FIXTURES

| | |
|-------------------|---------------------------------------|
| Wattage | 8W, 20W, 30W |
| Color Temperature | 30K, 40K, 50K, 57K |
| Lumen @ 5000K | 8W- 1,600 20W- 4,000 30W- 6,000 |
| EPA @ 60° | 2.83 |
| Efficacy @ 5000K | 200 lm/W |
| LED Chip | Lumileds 5050 (215lm-CRI>70) |

SOLAR PANEL

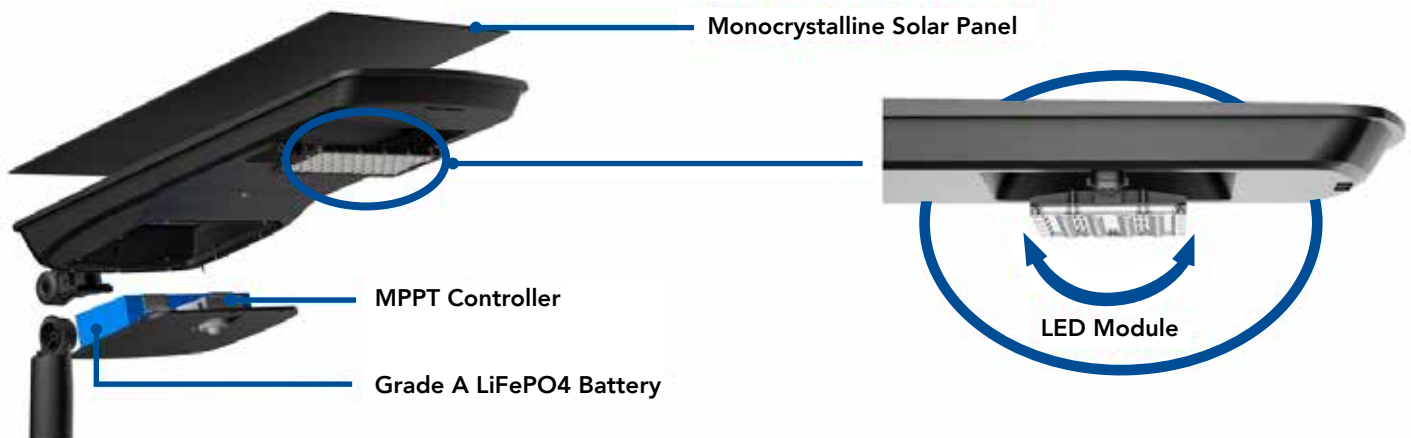
| | |
|--------------|-----------------------------|
| Rating Power | 18V 17W / 18V 36W / 18V 52W |
| Weight | 32.4 lbs |
| CRI | >70 |

MAXIMUM AUTONOMY

| | |
|--------------------|--|
| Motion Sensor Mode | 40%–100% 35 hours 280%–80% 55 hours |
| Time Control Mode | Night Owl 28 hours Early Bird 25 hours |
| Constant Mode | 100% 12hrs / 100% 11hrs / 100% 11hrs 70% 17hrs / 70% 15.5hrs / 70% 15.5hrs 40% 30hrs / 40% 27hrs / 40% 27hrs |

BATTERY

| | |
|-----------------------|---|
| Operating Temperature | -20°C/-4°F to 60°C/140°F |
| Charging Temperature | 0°C/32°F to 60°C / 140°F (-30°C/-22°F to 60°C/140°F Optional for STC 30W) |
| LiFePO4 Battery | 384WH 12.8V 30AH |
| Charging Time | 7 hours |
| Run Time | 10 hours |



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PRODUCT BUILDER

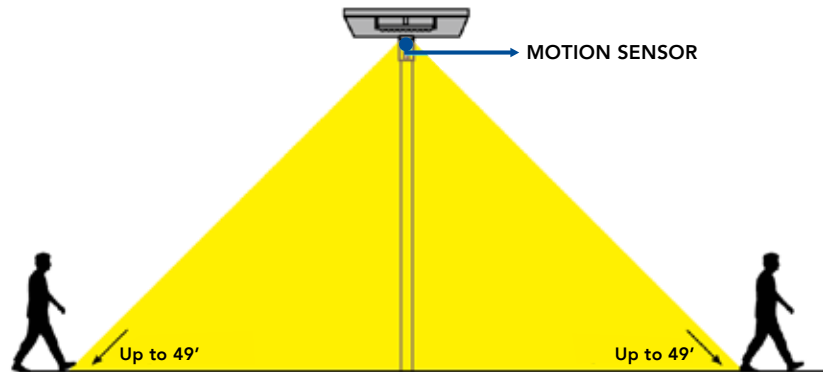
ex: ZL-STC-30-3-SSL-A-GY

| TYPE | SERIES | WATTAGE | COLOR TEMP | MOUNTING OPTIONS | FINISH |
|------|------------------|---|--|--|---|
| ZL | STC=Street Light | <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <div style="display: flex; justify-content: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">30W</div> <div style="border: 1px solid black; padding: 2px;">20W</div> <div style="border: 1px solid black; padding: 2px;">8W</div> </div> | <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <div style="display: flex; justify-content: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">3=3000K</div> <div style="border: 1px solid black; padding: 2px;">4=4000K</div> <div style="border: 1px solid black; padding: 2px;">5=5000K</div> <div style="border: 1px solid black; padding: 2px;">6=5700K</div> </div> | <div style="border: 1px solid black; width: 100%; height: 20px; margin: 0 auto;"></div> <div style="display: flex; justify-content: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">SSL-A=Slip Fitter</div> <div style="border: 1px solid black; padding: 2px;">SSL-B=Pole Mount Square</div> <div style="border: 1px solid black; padding: 2px;">SSL-C=Wall Mount</div> <div style="border: 1px solid black; padding: 2px;">SSL-D=Pole Mount Round</div> </div> | <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto;"></div> <div style="display: flex; justify-content: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">GY=Gray</div> <div style="border: 1px solid black; padding: 2px;">BK=Black</div> </div> |

PART NUMBERS

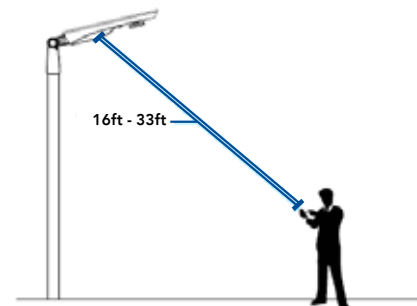
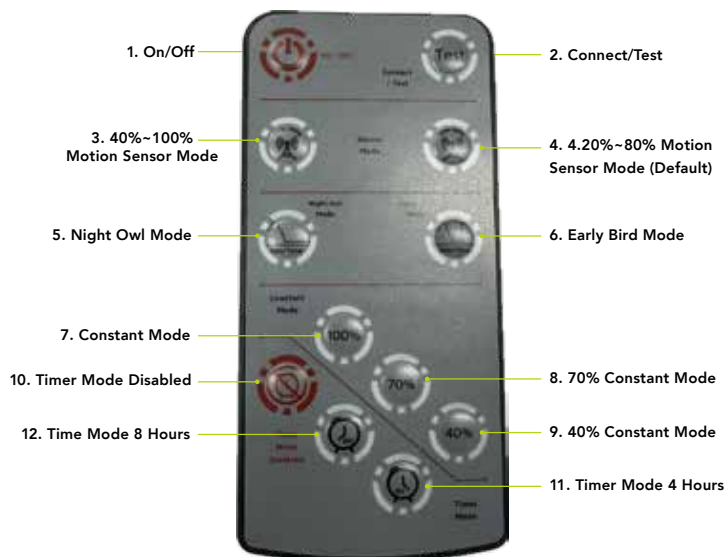
Slip Fitter = ZL-SSL-A
 Pole Mount Square = ZL-SSL-B
 Wall Mount = ZL-SSL-C
 Pole Mount Round = ZL-SSL-D
 Remote Control (Sold Separately) = ZL-REMOTE-SSL-8-20-30-50

DETECTION ZONE



REMOTE CONTROL

PART #: ZL-REMOTE-SSL-8-20-30-50



1. On/Off

When off is selected, the light will stop working. The solar panel will not charge the battery and the battery will not supply electricity to the light.

2. Connect/Test

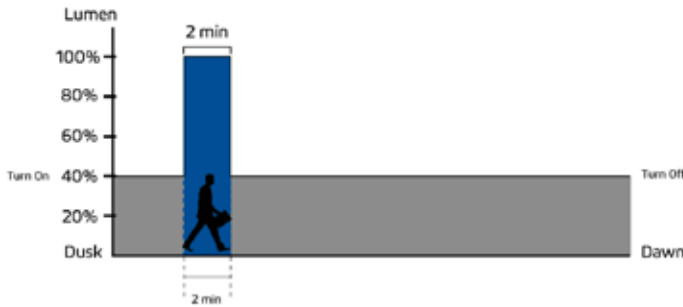
Remote control decide can be connected with any lighting fixture, one at a time. To connect, press the button once. It also functions as a test button. To test, press the "Test" button once, the red light will indicate the fixture is charging, green light indicated that the fixture is operating. Testing lasts for 10 seconds, and then it goes back to the mode previously in use.

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REMOTE CONTROL

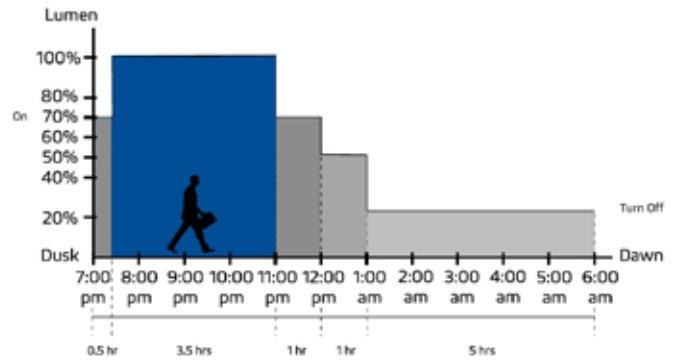
3. 40%~100% Motion Sensor Mode

Constant 40% brightness (turns on at dusk, turns off at dawn);
100% brightness turns on for 2 minutes when motion is detected.



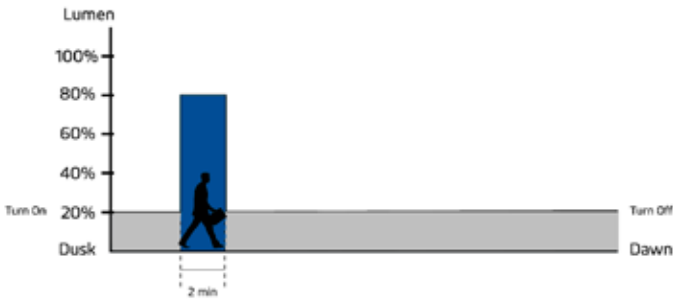
5. Connect/Test

Changes as natural light decreases/increases (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 5 hours (turns off at dawn).



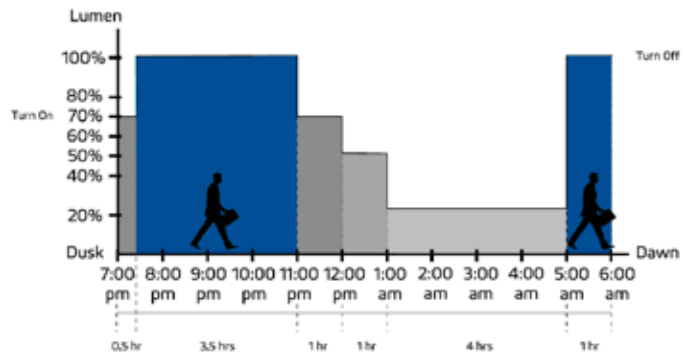
4. 20%~80% Motion Sensor Mode (Default)

Constant 20% brightness (turns on at dusk, turns off at dawn);
80% brightness turns on for 2 minutes when motion is detected.



6. Early Bird Mode

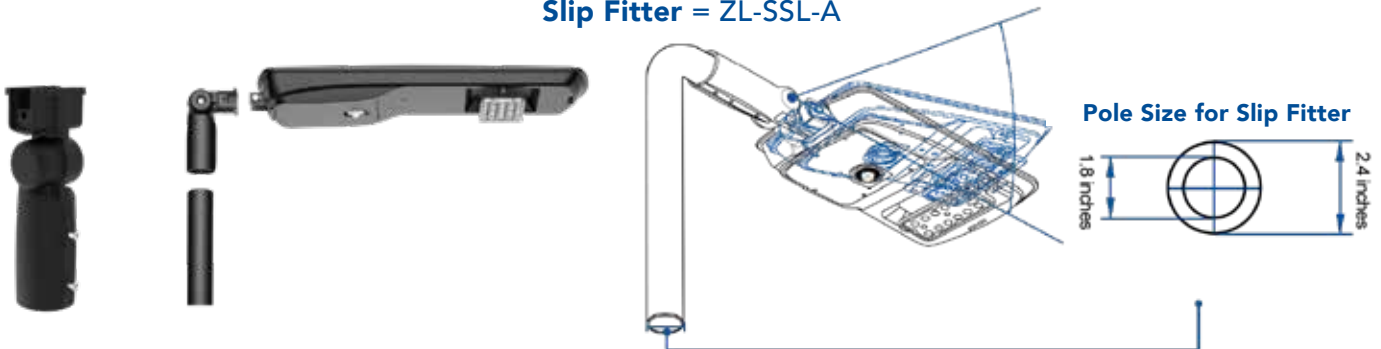
Changes as natural light decreases/increases with increased brightness near dawn for early risers (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 4 hours, 100% brightness for 1 hour (turns off at dawn).



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INSTALLATION ACCESSORIES

Slip Fitter = ZL-SSL-A



Trunnion - Square Pole Mount = ZL-SSL-B



Trunnion - Wall Mount = ZL-SSL-C

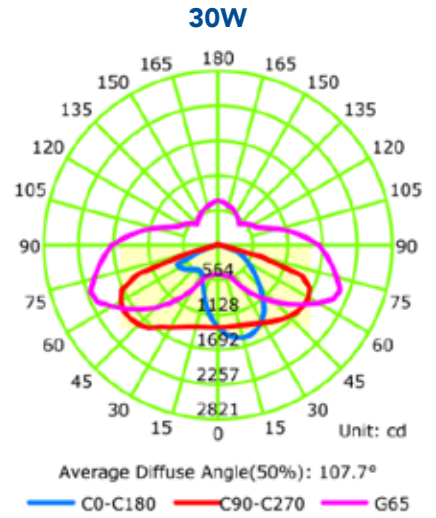
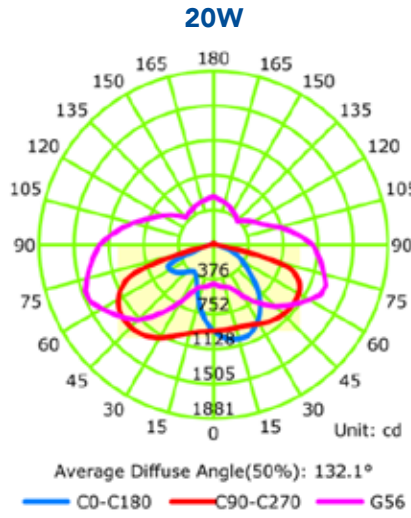
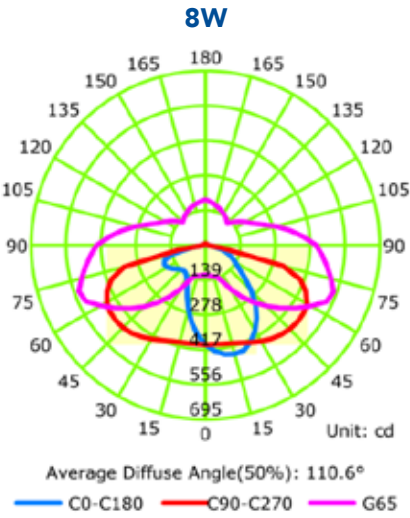


Trunnion - Round Pole Mount = ZL-SSL-D



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PHOTOMETRICS



DIMENSIONS

