SUPERIOR
BATTERY
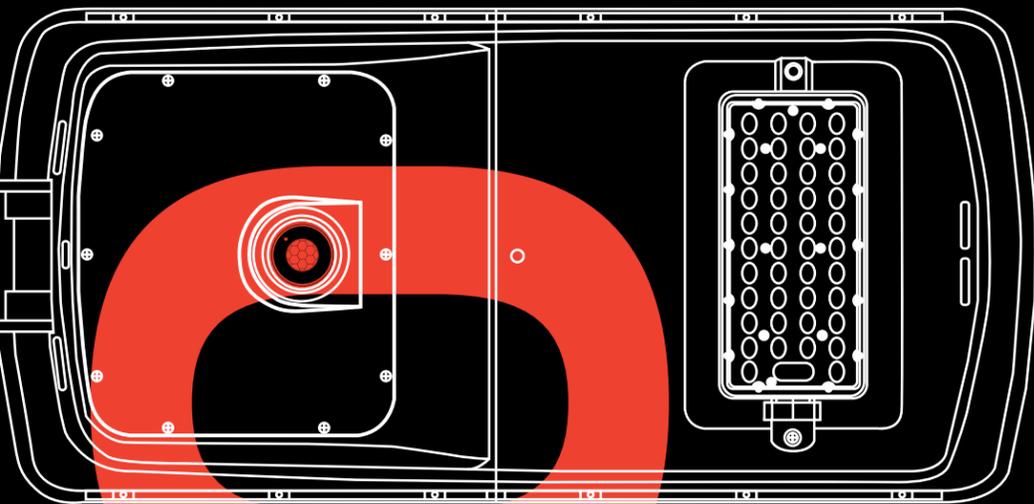
SUNLIKE

PRO

30W
Installation Manual

SOLTECH Designs and Manufactures
Advanced, Solar-Powered
LED Technology.

SOLTECH
Smart Solar Lighting

Contents

SUNLIKE PRO 30W

01 **Introduction**

Thank you for purchasing SUNLIKE PRO Urban Lighting Products.

Introduction
Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night. SUNLIKE PRO solar lights are easy to install and virtually maintenance free. Using them won't increase your electric bill.

Important
In order to avoid deep discharge of the battery during storage, please fully recharge your battery every 4 months. Please make sure that the light is installed in an area with sufficient sunlight irradiance. A strict minimum of 3.5 hours/day of sunshine on average is recommended. Select the right operating mode according to the local legislation needs and the local sunshine conditions. Keep it away from shadows. Self-cleaning available when the light fixture have minimum angle of 15 degrees.

Please save these instructions. Read all of the instructions carefully before attempting to carry out any installation or wiring. Do not open or attempt to repair the product on your own, as it many cause serious damage and would void the product warranty. Contact your local distributor for any questions concerning the installation.

Range of the light module on the lighting fixture is 20–26 feet (6–8 meters). The ideal installation spacing is >16 feet(5 meters). When installing two or more lighting fixtures on one pole, select desired operating mode before installation. Interference can cause delay or malfunction when using the remote control to change operating modes after installation.

Precautions when working with solar panels
When the solar panel is exposed to sunlight, a voltage appears at the output terminals of the solar panel turning it into a source of electricity. To avoid a shock hazard, make sure the solar panel is covered with an opaque (dark) later such as paper or cloth during the installation. Do not make contact with the terminals when the panel is exposed to sunlight or any other light source.

SUNLIKE PRO 30W

4.0 inches

36.0 inches

17 inch

Indicator

Light Module

Charging Point DC14.6V 3.75A
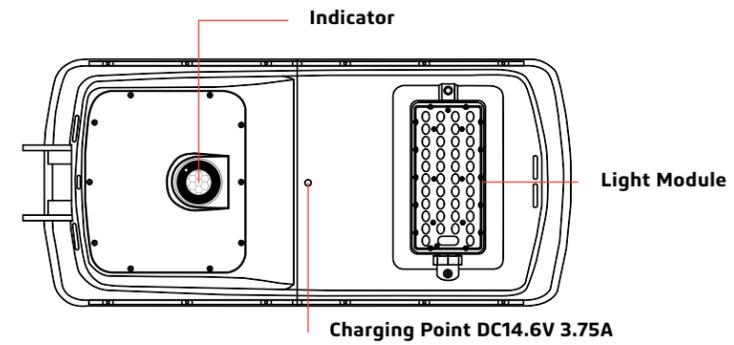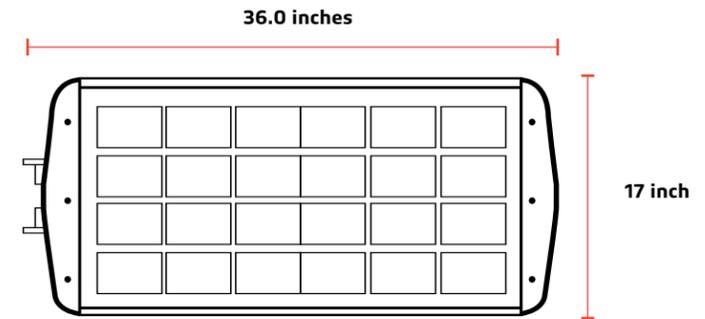
02 **Battery Notes**

1. Super Capacitor battery powered SUNLIKE PRO lights are visibly brighter than other outdoor solar lights, and their performance overall is more reliable.

2. To charge the battery fully may take up 6 to 12 hours.

3. The rechargeable battery can work continuously for 10 hours at full power.

4. Output will be reduced to 40% when the battery is below 40% of its capacity.

5. Battery will stop charging when the ambient temperature is below -40°F or above 140°F.

Battery Status is indicated by the red/green indicator on the lighting fixture as follows:
> Slow red light flashing (Every 2.5s) = Working
> Slow red flashing (Every 5s)= Open circurt
> Red light continuously on = Non-working
> Quick red flashing (Every 0.5s)= Charge fault
> Quick red flashing (Every 0.1s)= Over current or Short circurt

Storage
To avoid over discharge of the battery during storage, please recharge the lighting fixture every 3 months. Use the dedicated charger to charge, reset the switch when done.

ATTENTION

Battery cannot be replaced on your own. Please conntact SOLTECH for any battery's questions.

After opening the SUNLIKE PRO 30W package, you will notice that the solar panel is covered, and the indicator is flashing every 5 seconds. It signifies that the fixture is in open circuit mode. Once the fixture is taken out of the package, and the solar panel is no longer covered, the SUNLIKE PRO 30W will automatically turn on, and the indicator will begin flashing every 2.5 seconds. The light head will then turn on for 1 minute and then shut off again. It means the fixture is switching from open circuit mode to standard working mode.

If you wish to shut off the light, you must first cover the solar panel. Then press the off button on the remote. You can also just press the off button to turn off the lights during the night. When the solar panel detects light, the fixture will activate and resume normal operation again.

(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SUNLIKE PRO 30W under shade trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Before integrating this feature, selecting a light output percentage on the remote would yield an accurate percentage of max LED brightness. Activating the IAP, the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes the light output of a selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase the fixture's off-grid performance by up to 40%.

03 Installation and Wiring Compliance

1. Installation and wiring must comply with the State and National Electrical Codes.

2. The SUNLIKE PRO 30W model is intended for outdoor use only and should not be installed in an unventilated area, and shall be installed in an environment within the operational temperatures defined for the product.

3. The average sunshine in the installation area should be above 3.5 hours/day in order to ensure full function of the lighting fixture. Avoid areas with shades.

4. Before installation, if applicable, please ensure the light pole and its foundation are solid enough to withstand the lighting fixture(s).

5. Before installation, please ensure that the battery is fully charged. Install during sunny days if possible.

6. Before installation, please press the ⏻ ON/OFF key in the remote control and check whether it shows a red light on the indicator. Please cover the panel and check if the light module turns on normally within 1 minute.

After Installation
The lighting fixture will automatically turn on at night and turn off during daylight.

Important
Always orient the solar panel facing the equator (e.g. facing south if in northern hemisphere).
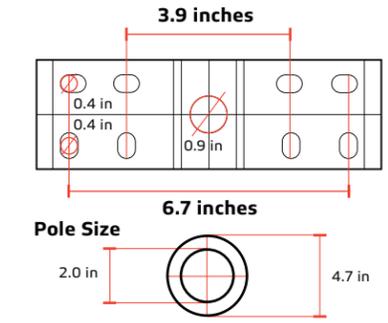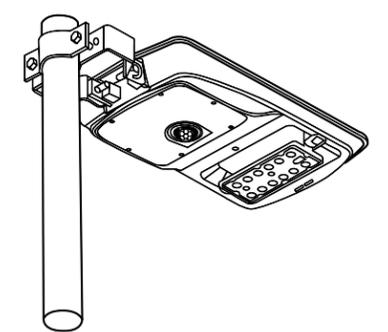Always have a tilt angle of at least 15° to avoid dust accumulation (0°=horizontal plane).

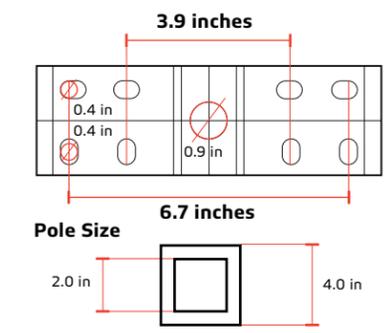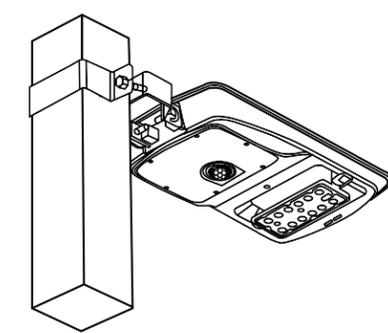# 04 Mounting Accessories

A. TRUNNION—Wall Mount

3.9 inches
0.4 in
0.4 in
0.9 in
6.7 inches
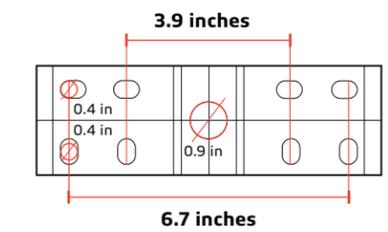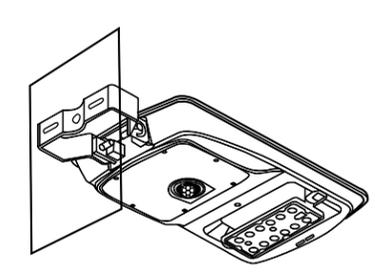
A-b. TLSTCP-WM-30W (for SUNLIKE PRO 30W)

B. TRUNNION—Round

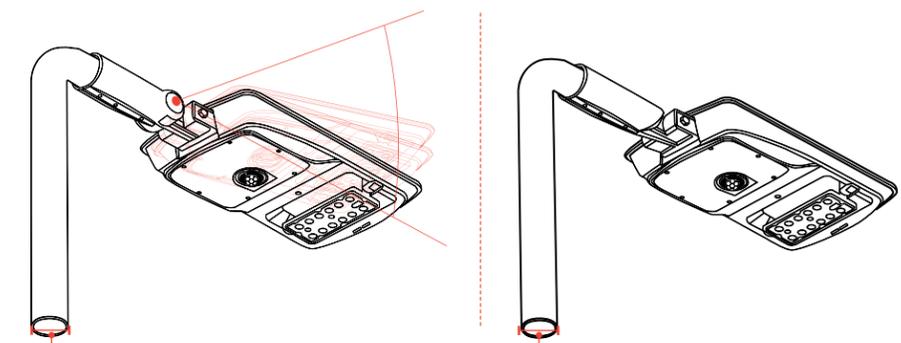3.9 inches
0.4 in
0.4 in
0.9 in
6.7 inches

Pole Size
2.0 in   4.7 in

B-b. TLSTCP-TRR-30W (for SUNLIKE PRO 30W) works with 2.0 inches to 4.7 inches poles.

C. TRUNNION—Square

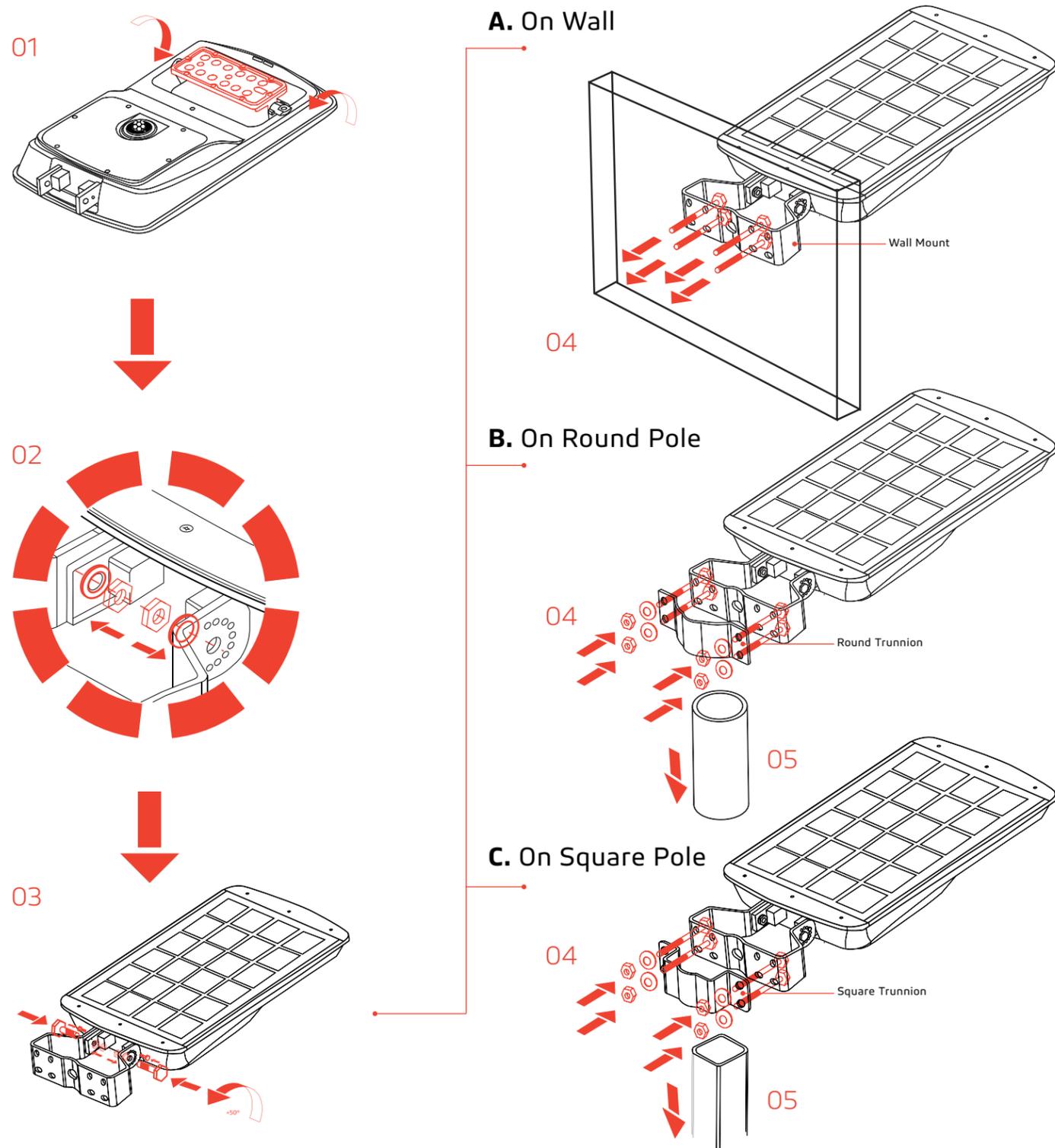

3.9 inches
0.4 in
0.4 in
0.9 in
6.7 inches

Pole Size
2.0 in   4.0 in

C-b. TLSTCP-TRS-30W (for SUNLIKE PRO 30W) works with 2.0 inches to 4.0 inches poles.
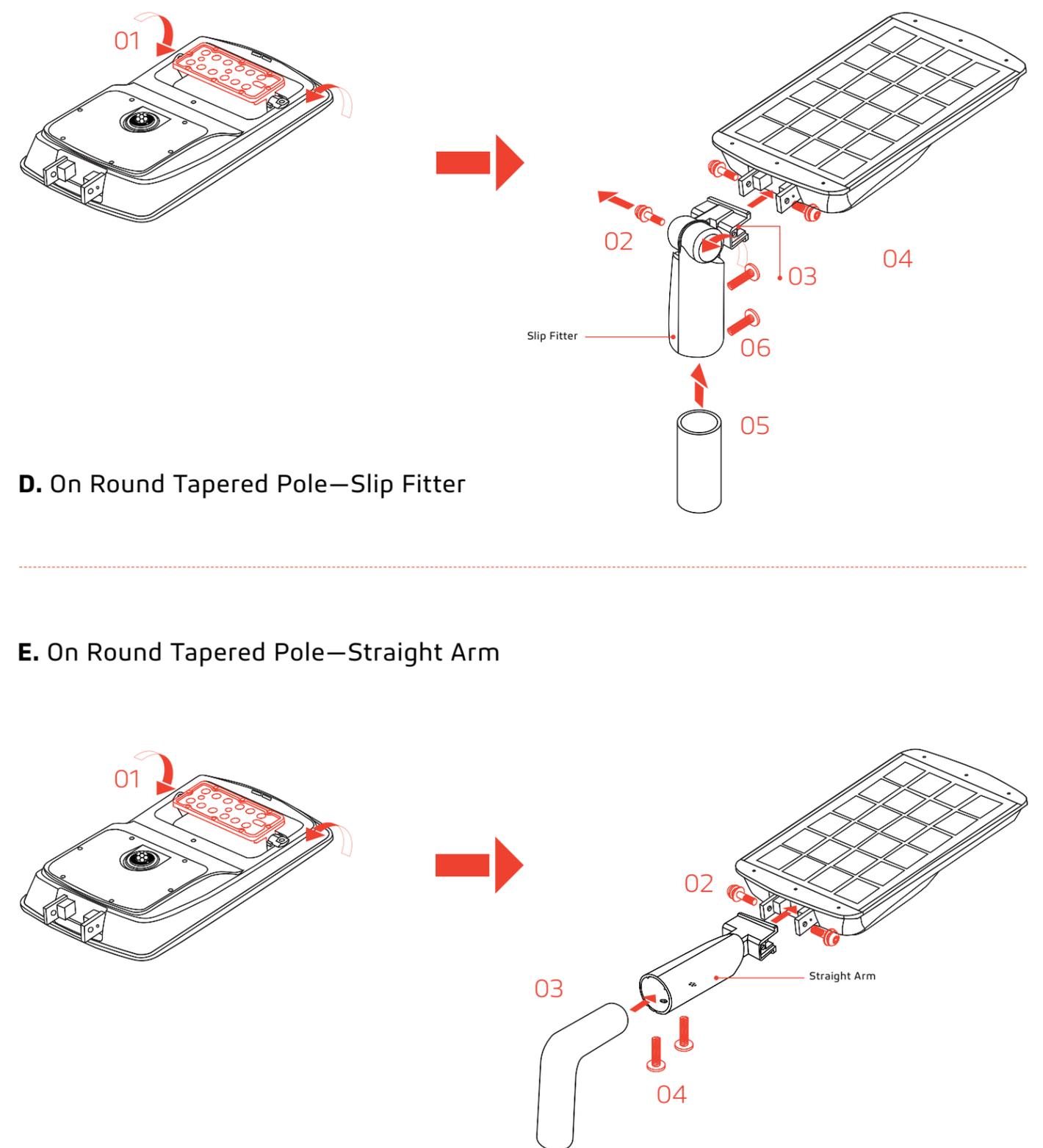
D. SLIP FITTER—Rotative AND STRAIGHT ARM
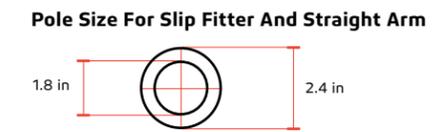
Pole Size For Slip Fitter And Straight Arm
1.8 in   2.4 in

Trunnion Mount

01

02

03

A. On Wall

Wall Mount

04

B. On Round Pole

04

Round Trunnion

05

C. On Square Pole

04

Square Trunnion

05

Slip Fitter and Straight Arm

01

02

03

04

Slip Fitter

06

05

D. On Round Tapered Pole—Slip Fitter

E. On Round Tapered Pole—Straight Arm

01

02

03

Straight Arm

04

The solar charge in a battery pack won't last forever. The off–grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.
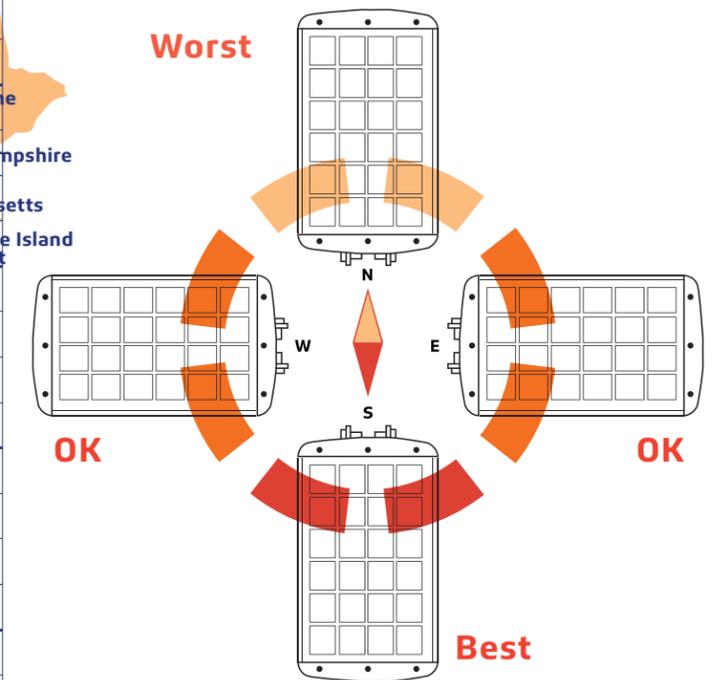
Tip

You can increase the tilt 15º in the winter or decrease 15º in the summer. In this way you can get the maximum sunlight to recharge the battrey
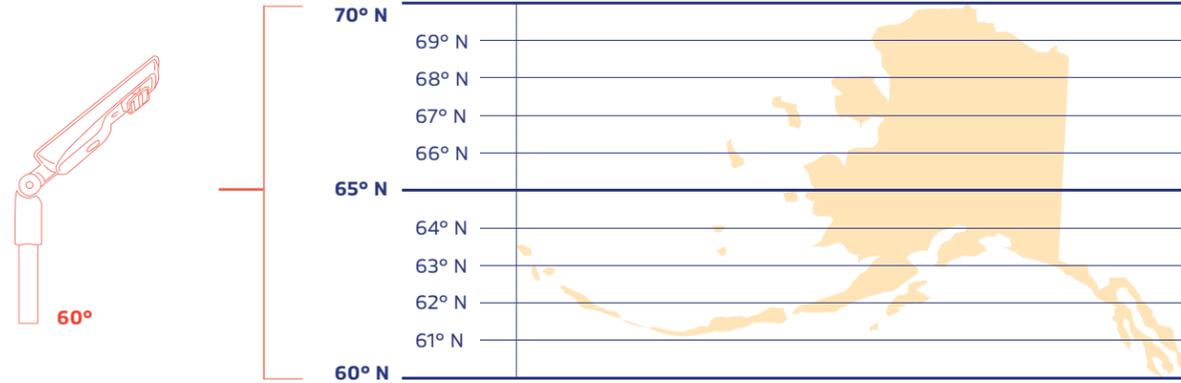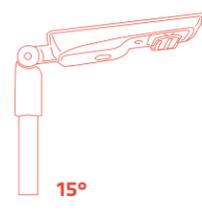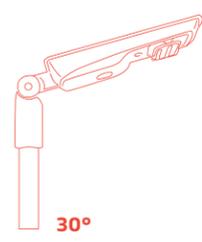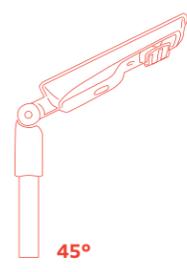
Key

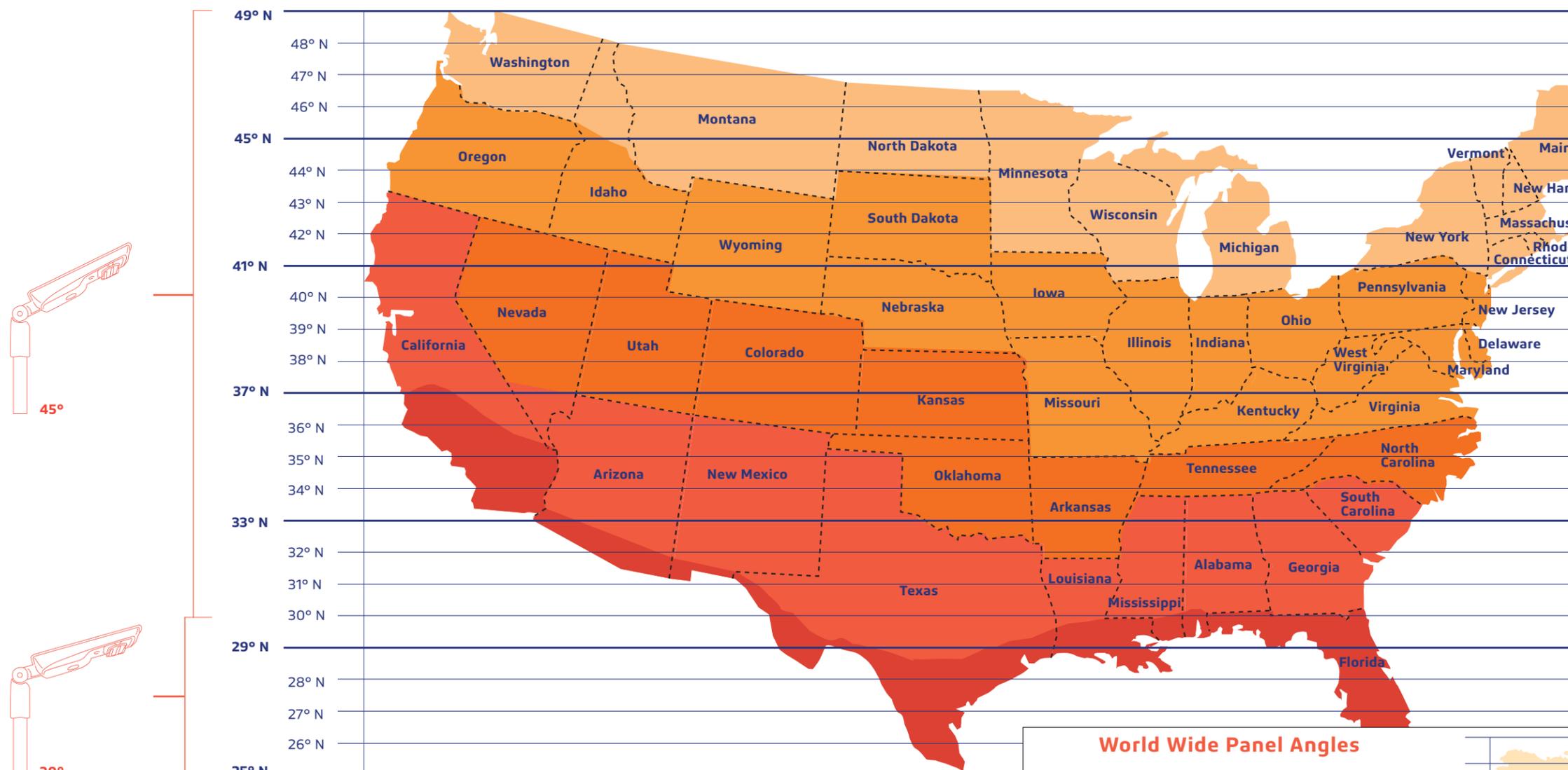Strong sunlight   Nromal sunlight   Less sunlight

Best Facing Direction of Solar Panel
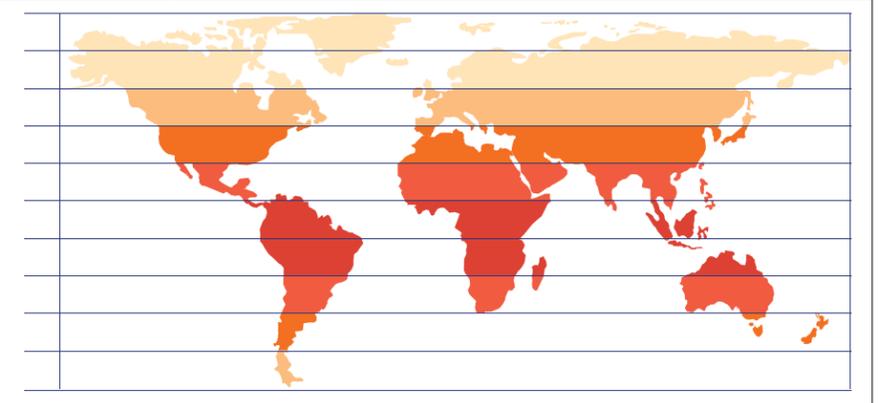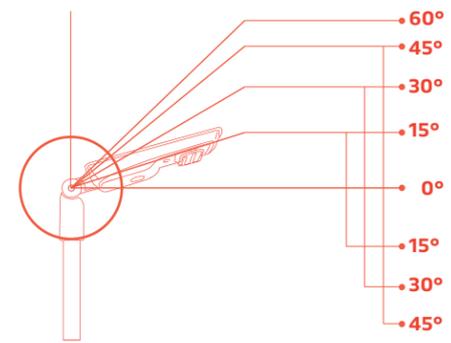
Worst

OK   OK

Best

The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. But that's okay! Panels facing West & East won't get as much light as Southern facing panels, but will still collect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.

60º

45º

30º

15º

Alaska

70º N
69º N
68º N
67º N
66º N
65º N
64º N
63º N
62º N
61º N
60º N

49º N
48º N
47º N
46º N
45º N
44º N
43º N
42º N
41º N
40º N
39º N
38º N
37º N
36º N
35º N
34º N
33º N
32º N
31º N
30º N
29º N
28º N
27º N
26º N
25º N

Washington
Montana
North Dakota
Minnesota
Vermont   Maine
New Hampshire
Oregon
Idaho
South Dakota
Wisconsin
Michigan
Massachusetts
Rhode Island
New York
Connecticut
Wyoming
Iowa
Pennsylvania
Nevada
Nebraska
New Jersey
Ohio
Delaware
California
Utah   Colorado
Illinois   Indiana
West Virginia
Maryland
Kansas   Missouri
Kentucky
Virginia
Arizona   New Mexico
Oklahoma
Tennessee
North Carolina
Arkansas
South Carolina
Texas
Louisiana
Mississippi
Alabama   Georgia
Florida

Hawaii

21º N
20º N
19º N

World Wide Panel Angles

60º
45º
30º
15º
0º
15º
30º
45º

012

1. On/Off

2. Connect/Test

3. 40%~100% Motion Sensor Mode

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

5. Night Owl Mode

6. Early Bird Mode

7. 100% Constant Mode

8. 70% Constant Mode

9. 40% Constant Mode

10. Timer Mode Disabled

11. Timer Mode 4 Hours

12. Time Mode 8 Hours

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When using the remote for the first time, please remove the plastic piece at the bottom to make the remote turn on.
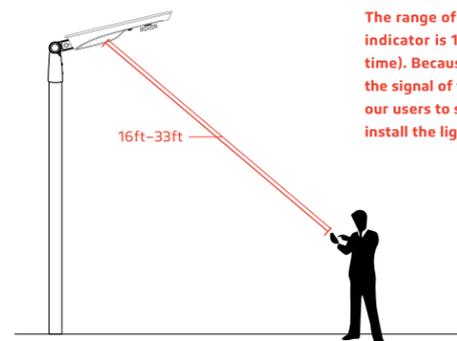
The range of the remote control to the indicator is 16ft (Day time) to 33ft (Night time). Because the sunlight will impact the signal of the remote control, we suggest our users to setup the mode before they install the light.

16ft~33ft

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 device can be connected with any lighting fixture. When all cables are connected and solar panel detectes sunlight, the fixture will automatically turn on. To test, press the "Test" button once, the LED light will turn on to indicate the fixture has been turned on. During the day time, the indicator will slowly flashing red. That means the battery is charging.
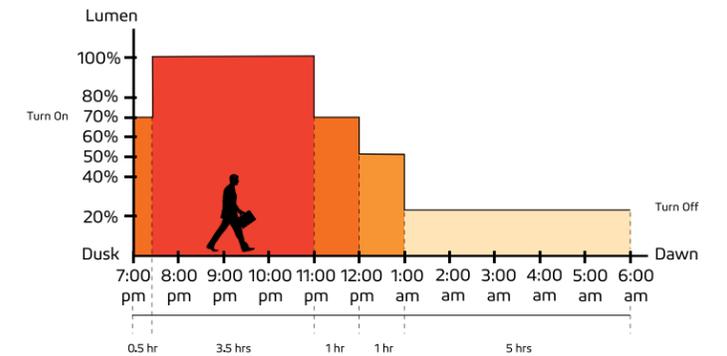
3. 40%~100% Motion Sensor Mode
Constant 40% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.
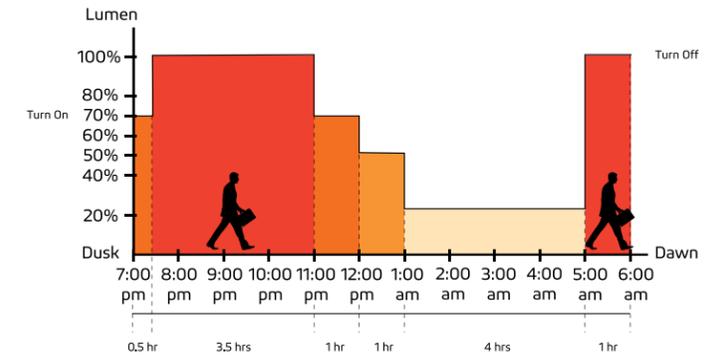
Lumen
2 min
100%
80%
60%
Turn On 40%
20%
Dusk
Turn Off
Dawn
2 min
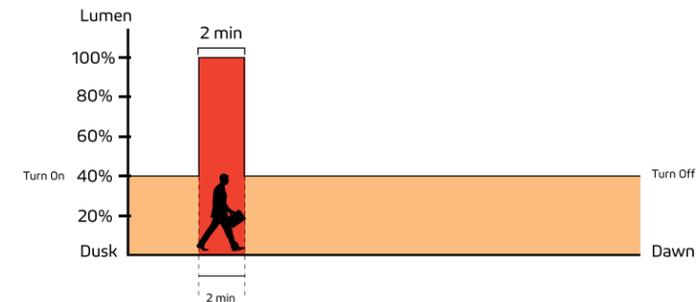
4. 20%~80% Motion Sensor Mode (Default)
Constant 20% brightness (turns on at dusk, turns off at dawn); 80% brightness turns on for 2 minutes when motion is detected.

Lumen
100%
80%
60%
40%
Turn On 20%
Dusk
Turn Off
Dawn
2 min
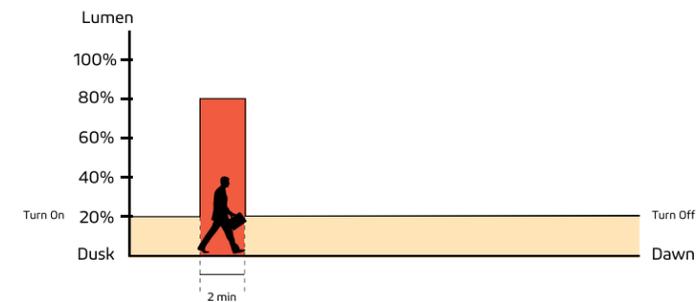
5. Night Owl Mode
Changes as natural light decreases/increases (turns on at dusk); 70% brightness for 0.5 hour, 100% brightness for 3.5 hours, 70% brightness for 1 hour, 50% brightness for 1 hour, 20% brightness for 5 hours (turns off at Dawn).

Lumen
100%
80%
Turn On 70%
60%
50%
40%
20%
Turn Off
Dusk
Dawn
7:00 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00
pm pm pm pm pm pm am am am am am am
0.5 hr   3.5 hrs   1 hr 1 hr   5 hrs

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).

Lumen
100%
80%
Turn On 70%
60%
50%
40%
20%
Turn Off
Dusk
Dawn
7:00 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00
pm pm pm pm pm pm am am am am am am
0.5 hr   3.5 hrs   1 hr 1 hr   4 hrs   1 hr

(IAP) Intelligent Adaptive Program Battery Control Technology
In order to extend the off-grid autonomy of the SUNLIKE PRO 30W under shade trees, heavy rain, and thick clouds, our controllers now integrate an adaptive smart control feature to actively track battery capacity and adjust light output accordingly. Before integrating this feature, selecting a light output percentage on the remote would yield an accurate percentage of max LED brightness. Activating the IAP, the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes the light output of a selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase the fixture's off-grid performance by up to 40%.

Important
Dusk and dawn time may be diffrent in other locations and seasons. The sensors of our products will follow the light patterns of where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes only.
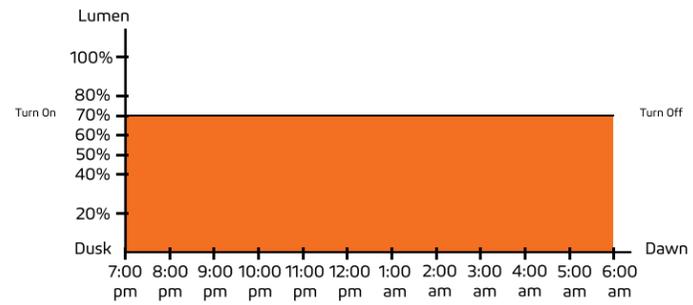
7. 100% Constant Mode
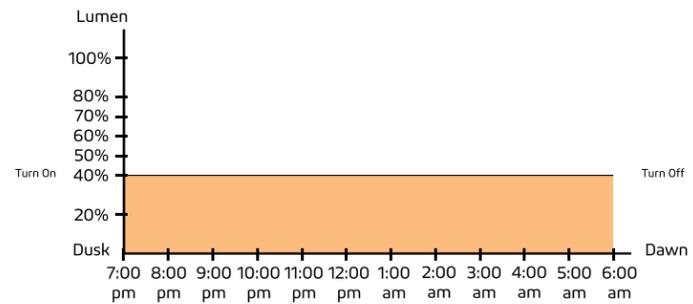100% brightness from dusk to dawn.
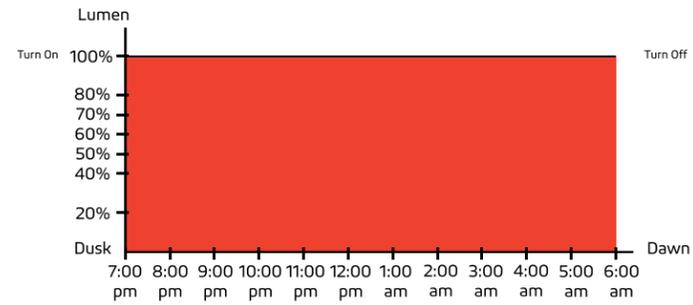
8. 70% Constant Mode
70% brightness from dusk to dawn.

9. 40% Constant Mode
40% brightness from dusk to dawn.

10. Timer Mode Disabled
Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

11. Timer Mode 4 Hours
This is an additional mode which can work with any other modes. For example: press this button at any time after you turn on 70% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 11pm. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.
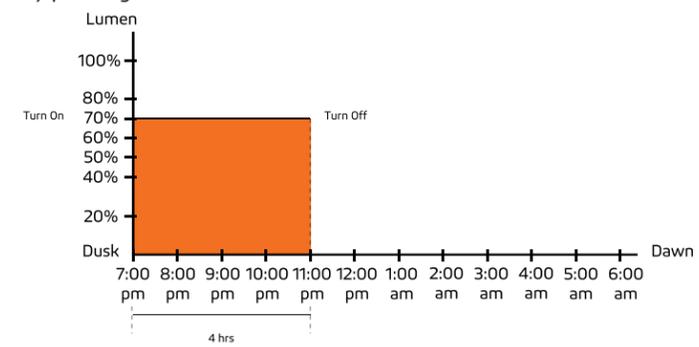
12. Time Mode 8 Hours
This is an additional mode which can work with any other modes. For example: press this button at any time after you turn on 70% Constant Mode. If the light turns on at 7pm at dusk, it will turn off at 3am. It will repeat the same schedule hereafter until it is canceled by pressing Timer Mode Disabled.
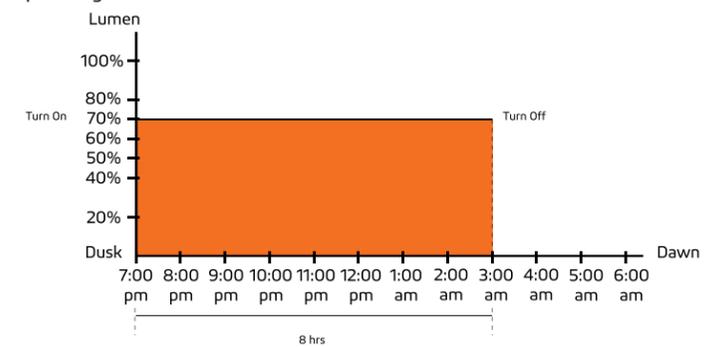
Important
Dusk and dawn time can vary for different locations and seasons. The sensors in our products will monitor the light levels where it is installed. The time period shown in the chart above is just an example to help you understand the different lighting modes.

SUNLIKE PRO products are covered by a 5 year limited warranty. SOLTECH urban light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 5 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.

SOLTECH

Smart Solar Lighting

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www.soltechlighting.com

SOLTECH Designs and Manufactures Advanced, Solar-Powered LED Technology.