SOLTECH
Smart Solar Lighting

CATALOG		COMMENTS
PROJECT		
PREPARED BY		
DATE		

TURTLE-FRIENDLY LIGHTING

MORAGA SOLAR AREA LIGHT

Thousands of sea turtles are affected every year because of the electric lighting along beachfront properties and coastlines around the country. For more than 20 years, the Sea Turtle Conservancy (STC) has worked to tighten the guidelines on beaches where property owners are restricted to amber light sources when visible from the beach to avoid the hatchlings disorientation.

To minimize the light pollution, We have developed turtle-friendly lighting solutions that include low wattage phosphor converted amber and true amber limited wave-length LEDs. Not only do our luminaires protect the environment, but also provide sustainable and energy-saving solutions for years to come.

APPLICATIONS

This economical, easily-installed, off-grid lighting solution is ideal for areas such as pathways, parking lots, landscaping, parks, schools, trails, or any remote locations that have no access to conventional power.

SPECIFICATION FEATURES

High Brightness, Smart Power Consumption

- 150lm/Watts high luminous efficiency. Color temperature is adjustable between 3000K and 4000K; brightness is adjustable between 20%~100%.

Multifunctional & Flexible

- Suitable for pole diameter 2 3/8" to 3".
- Professionally designed structure ensures that all water will empty out from built-in drainage holes.

Efficiently Collects Solar Energy

- An efficient mono solar panel is equipped to generate electricity power continuously and keep the system working stably during daylight.
- Bonus feature: Slanted solar panel provides additional solar energy harvesting and reduces dust collection on the surface.

Durable & Dirt Resistant

- The aluminum body received sophisticated surface treatment, preventing possibilities of rust or oxidation over time.

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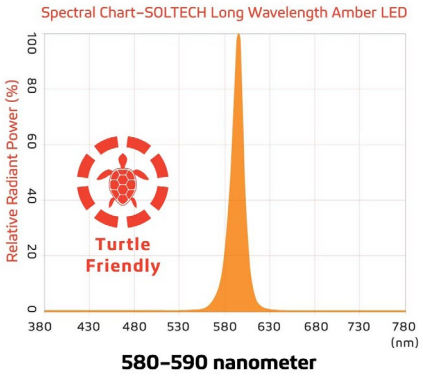
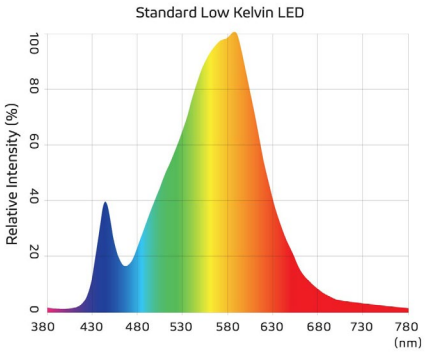
WHY AMBER LED

Research has shown that sea turtles are less affected by lighting within specific wavelengths. Long-wavelength lighting such as Amber LEDS are less disruptive than white light. According to the Florida Fish and Wildlife Commission (FWC), turtle-friendly luminaires must limit short wavelength light under 560 nanometers.



580–590 nanometer



LIGHT FIXTURES	
LED Nominal Power	18W
Turtle Friendly Waveband	580–590nm
BATTERY	
* Operating Temperature	-30°C/-22°F to 140°F
* Charging Temperature	-30°C/-22°F to 140°F
Capacity	154WH 12.8V
SOLAR PANEL	
Rating Power	42W

Round Non-Tapered Steel Pole—10Ft

SWJRS4001110-BK-3-BC		
CATALOG LOGIC	**CODE**	**EXPLANATION**
SERIES:	RS	Round Non-Tapered Steel Poles
BASE DIAMETER:	400	4.0" Base Bottom Diameter
GAUGE:	11	11 Gauge Thickness
NOMINAL HEIGHT:	10	10 Feet Tall
FINISH:	BK	Black Finish Colors
MOUNTING DESIGNATION:	3	2 7/8" OD Tenon
OPTIONS:	BC	Base Cover

HEIGHT (FT.)	POLE SHAFT (IN.)X(FT.)	GAUGE	HANDHOLE SIZE (IN.)X(IN.)	ANCHOR BOLT (IN.)X(IN.)	BOLT CIRCLE (IN.)
10	4.0 X	11	2 X 4	0.75 X 17 X 3	8
EPA	**80 MPH ($FT.^2$)**	**90 MPH ($FT.^2$)**	**100 MPH ($FT.^2$)**	**WEIGHT**	**SHIP WT. (LBS.)**
	31	24	19		78

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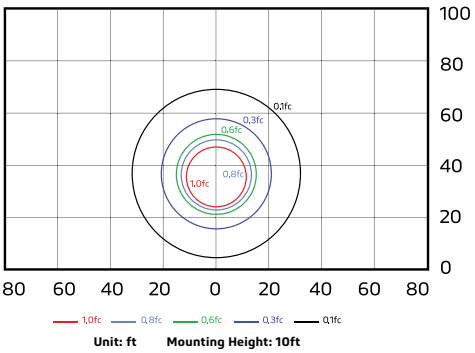
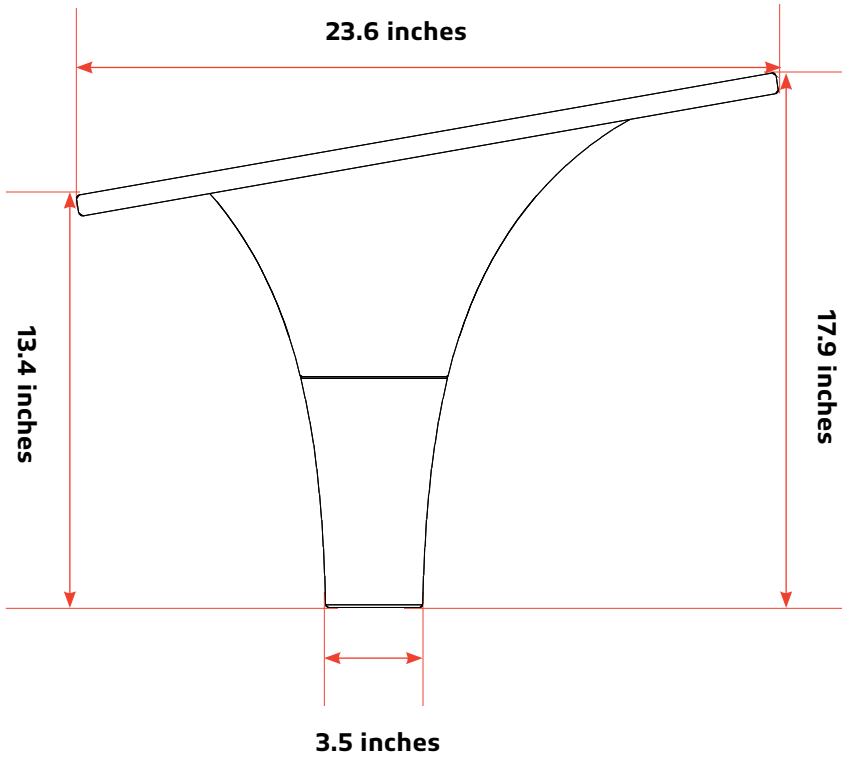
IES/ BEAM

18W



18W



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ORDERING INFORMATION

SERIES	WATTAGE	MOUNTING OPTIONS	FINISH
STLMORTF =MORAGA Turtle Friendly	**18**=18W	**PT**=POST TOP	**BK**=BLACK

	-		-		-		

WARRANTY

MORAGA 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 reserves the right to update all product data sheets at any time. Consult SOLTECH marketing specialists for publication

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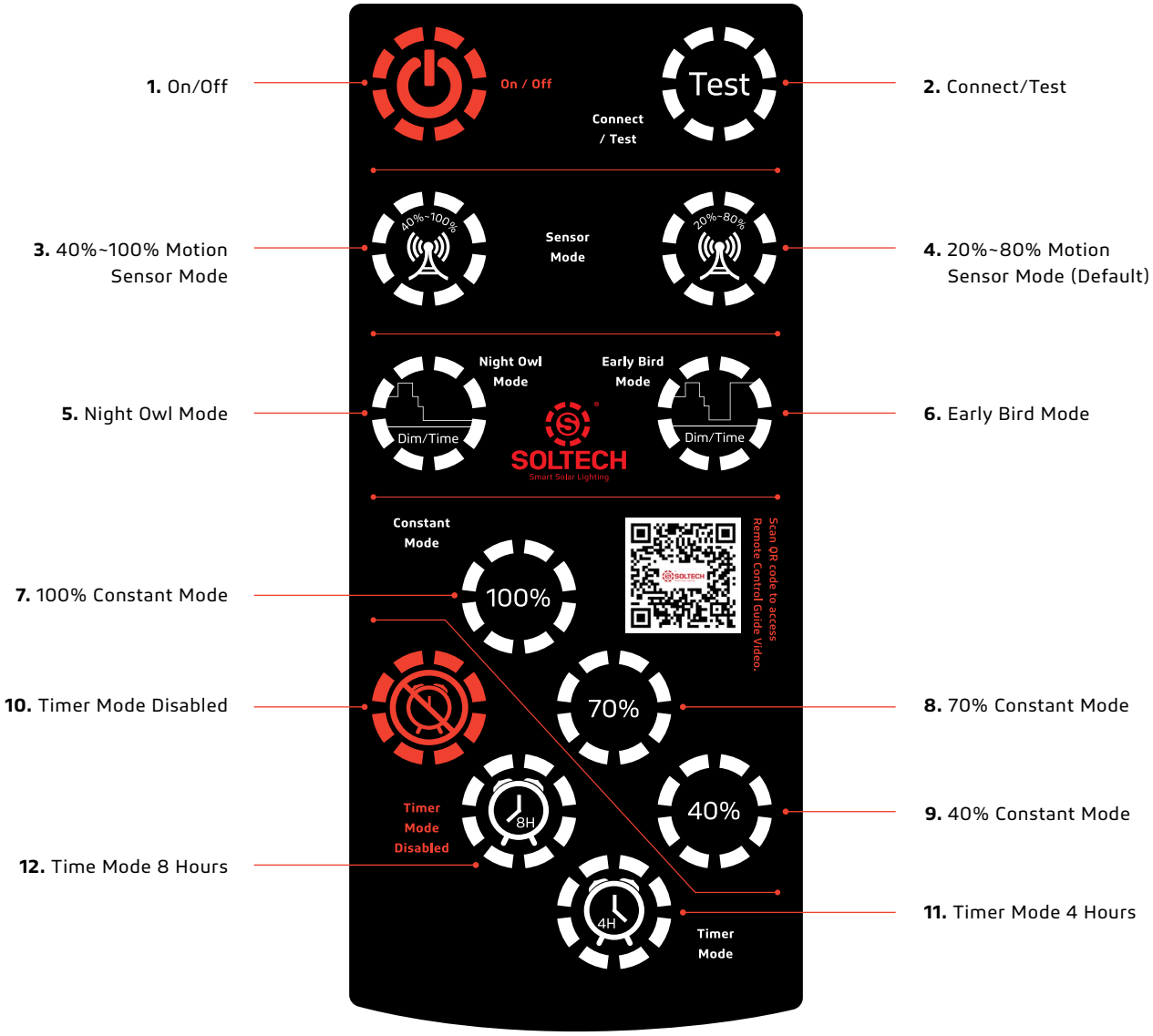
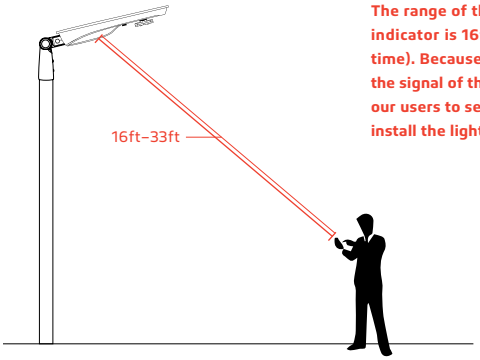
REMOTE CONTROLS





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.

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, 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 indicates 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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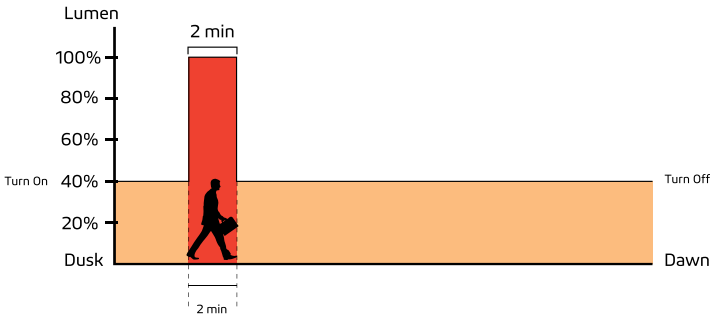
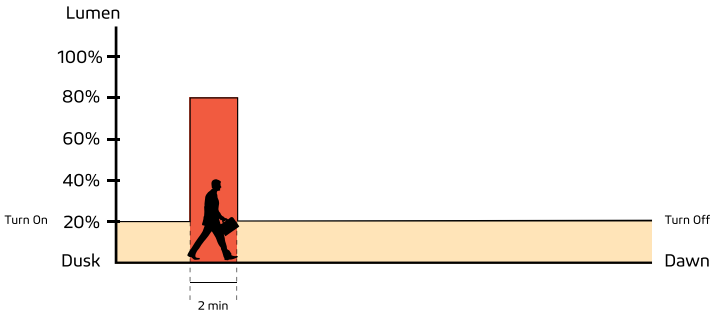
REMOTE CONTROLS

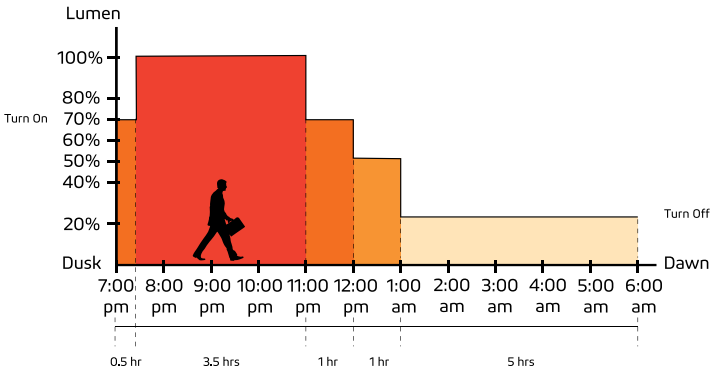
3. 40%~100% Motion Sensor Mode
Constant 40% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.



1. On/Off
When off is selected, the light will stop working. Solar panel will not charge battery, battery does not supply electricity to the light.



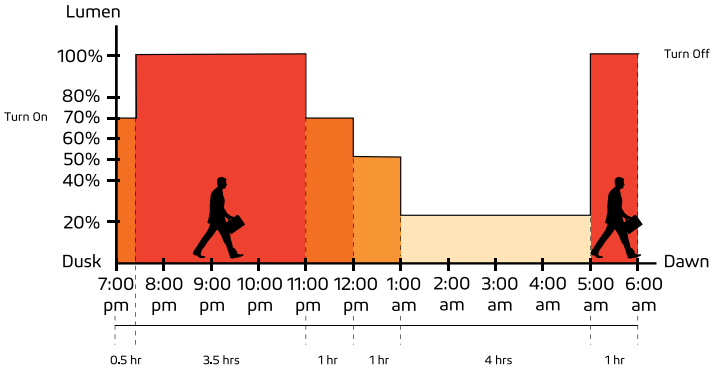
2. Connect/Test
Remote control device can be connected with any lighting fixture, one at a time. To connect, press once. It also functions as a test button. To test, press the "Test" button once, the red light will indicate the fixture is charging, green light indicates discharging. Testing lasts for 10 seconds,



then goes back to the mode previously in use.

3. 40%~100% Motion Sensor Mode
Constant 40% brightness (turn on at dusk, turn off at dawn); 100% brightness turns on for 2 minutes when motion detected.

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



(IAP) Intelligent Adaptive Program Battery Control Technology
In order to extend the off-grid autonomy of the SUNLIKE under shady 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. Now with (IAP), the controller actively monitors the battery and regulates the electrical current to the LEDs. The controller makes light output of the selected percentage on the remote relative to battery capacity rather than max LED output. This smart-control feature can increase our 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.

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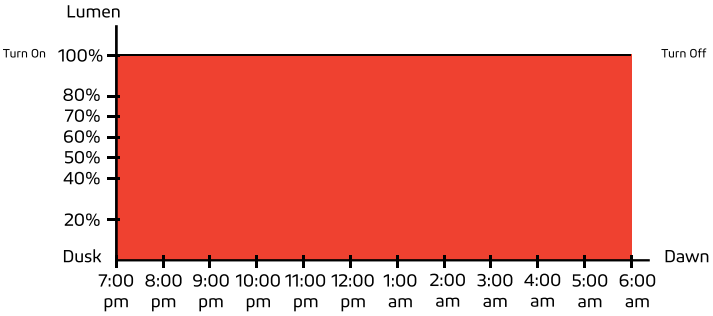
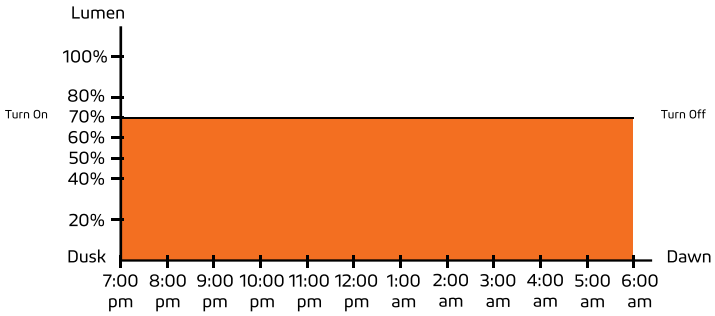
REMOTE CONTROLS

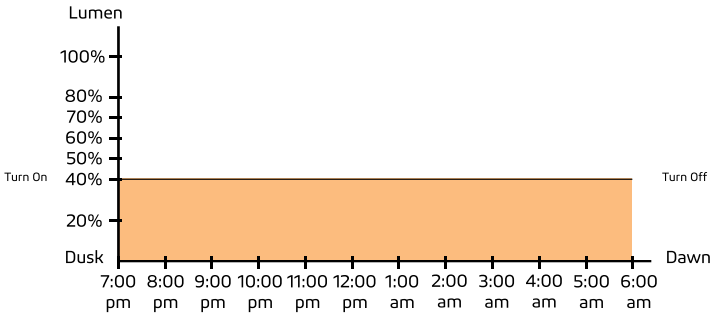
7. 100% Constant Mode
100% brightness from dusk to dawn.



8. 70% Constant Mode
70% brightness from dusk to dawn.

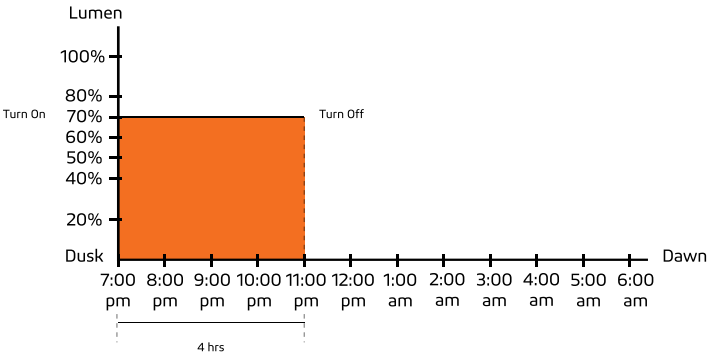


9. 40% Constant Mode
40% brightness from dusk to dawn.

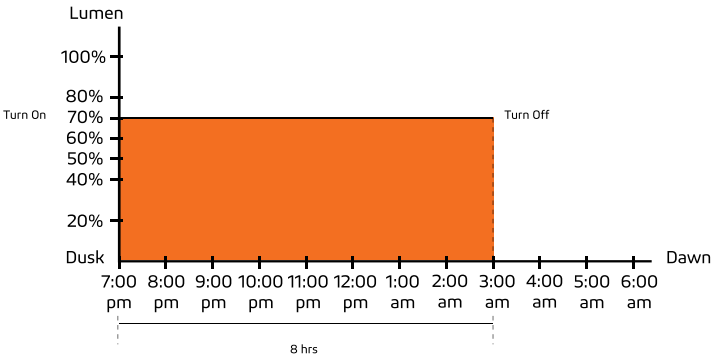


10. Timer Mode Disabled
Press this button to turn off Timer Mode; settings revert back to before Timer Mode was last activated.

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.



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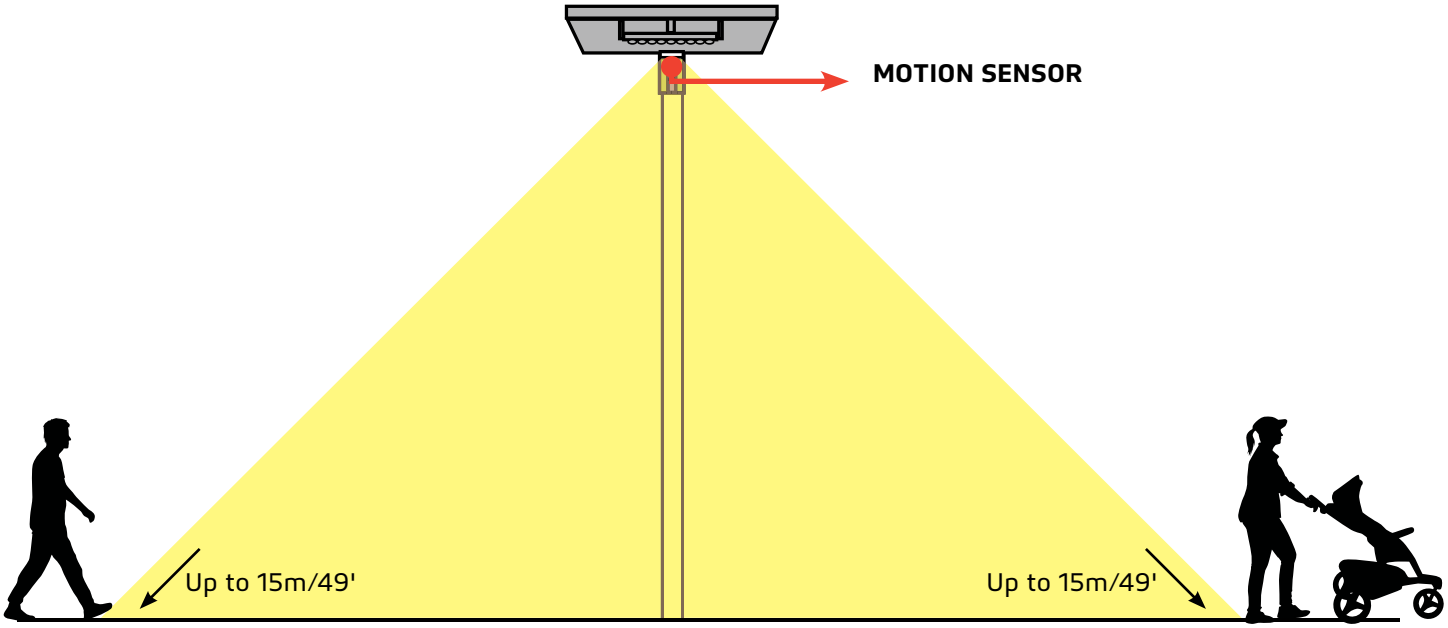
DETECTION ZONE



BEST FACING DIRECTION OF SOLAR PANEL

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.