

BUY AMERICAN ACT COMPLIANT

Assembled In The USA

01.SOLAR PANEL

04.SOLAR PANEL
SUPPORT BASE

02.SOLAR LAMP

03.BATTERY PACK

05.POLE

SATELIS 75W

SOLTECH—Smart Solar Lighting offers SATELIS 75W Off-Grid robust solar light system end manufactured in the USA territory and meet the guidelines established under the Buy American Act (BAA). These Off-grid SATELIS robust solar light systems are "commercially available off-the-shelf (COTS) items" as that term defined at FAR §2.101. According to the domestic supply chain situation, the eligible product components list/specification or combination list is subject to change or varied without notice.



1460 Park Avenue.
Emeryville CA 94608 USA



SATELIS 75W BAA

APPLICATIONS

SATELIS BAA is ideal for highways, city streets, large parking lots and area lighting. It comes with a wide choice of configurations, lumen outputs, pole heights, and it's optimized for high efficiency and long-term performance.

DESCRIPTION

SATELIS BAA meets the lighting requirements for major roads and highways. It is equipped with more robust solar panels and a super cold-tolerant battery pack to ensure the battery functions through harsh cold weather. SATELIS BAA solar panels turn solar energy into electricity when sunlight hits the photovoltaic cells. Electrons in the silicon go into motion generating electric current. Electricity produced from the sun's light is then stored in the superior capacitor battery to ensure cold weather operation for the LED fixture.

CATALOG		COMMENTS
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CERTIFICATION DATA



ORDERING INFORMATION

SERIES	WATTAGE	OPTIC TYPE	COLOR TEMPERATURE	MOUNTING OPTIONS	FINISH
STLSTDBAA =SATELIS BAA	75=50W 15,000 Lumens	T2=TYPE II T3=TYPE III T4=TYPE IV	3=3000K 4=4000K 5=5000K 6=5700K	SF=Slip Fitter	GY=Gray BR=Bronze

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(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SATELIS 75W BAA 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%.



SATELIS 75W BAA

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SPECIFICATION FEATURES



Powerful Panel & Powerful Lighting

- 2*130W Dual Panels and 2*75W Dual lighting head option
- 15,000LM at 200 LM/W highest efficiency in the industry
- Remote control included with one-button mode settings



Longer Life & Heavy Duty

- Grade A LifePO₄ Battery Pack up to 25V*90AH, 2000+ full Charging Cycles
- LEVEL 12 Wind Test



Modular & Customizable Concept

- Modular battery box with fast hooking design and IP68 underground options
- Top mounting or under mounting panel options
- Reduce the construction time for building projects
- TYPE III distribution comes standard. TYPE II and TYPE V are also available.



Standardized Lighting Design

- Illumination where you need it with scheduled dimming
- Meets IES standards for road illumination
- Solar clean energy solution that also meets street and area light compliances

PRODUCT SIZE

SATELIS BAA 75W

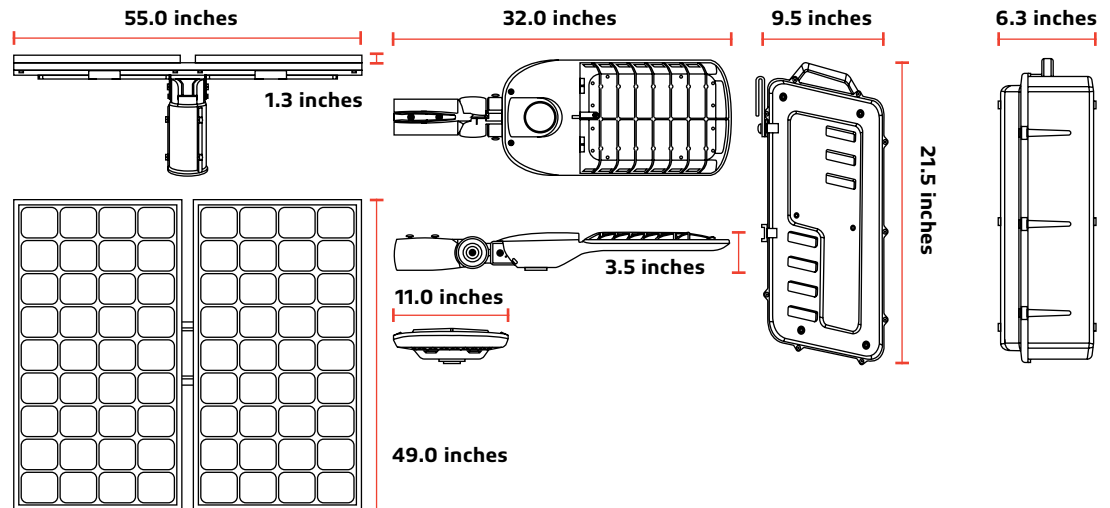
25V 60AH

SOLAR PANEL: 42.2 Lbs

SOLAR LAMP: 13.8 Lbs

BATTERY ASSEMBLY: 51 Lbs

MOUNTING FASTNER: 28.6 Lbs





SATELIS 75W BAA

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SPECIFICATIONS

Specification	SATELIS BAA 75W
LED Nominal Power	75W
Solar Panel	36V 260W
LiFePO ₄ Battery	1,536WH 25.6V 60AH
Weight	135.6Lbs
Lumen Output@5000K	15,000
CRI	> 70 (> 80 Optional)
LED Chip	Lumileds 5050 (215lm-CR>70)
EPA@45°	20.6
Waterproof Rate	IP65
Casting	Aluminum
Efficiency@5000K	200lm/W
* Charging Time	5hrs
Operation Mode	Remote control and One-key Setting
Installation Height	15-20 ft
* Operating Temperature	-20°C/-4 to 122°F
* Charging Temperature	0°C/32°F to 149°F
Maximum Autonomy@Full Power	
Motion Sensor Mode	40%-100% 84hrs 20%-80% 140hrs
Time Control Mode	Night Owl 50hrs Early Bird 45hrs
Constant Mode	100% 20hrs 70% 28hrs 40% 50hrs

* The temperature can impact the battery's charging and normal operation. If your place's temperature is under 32°F, we advice you to use the SUNLIKE PRO version to achieve better lighting results.

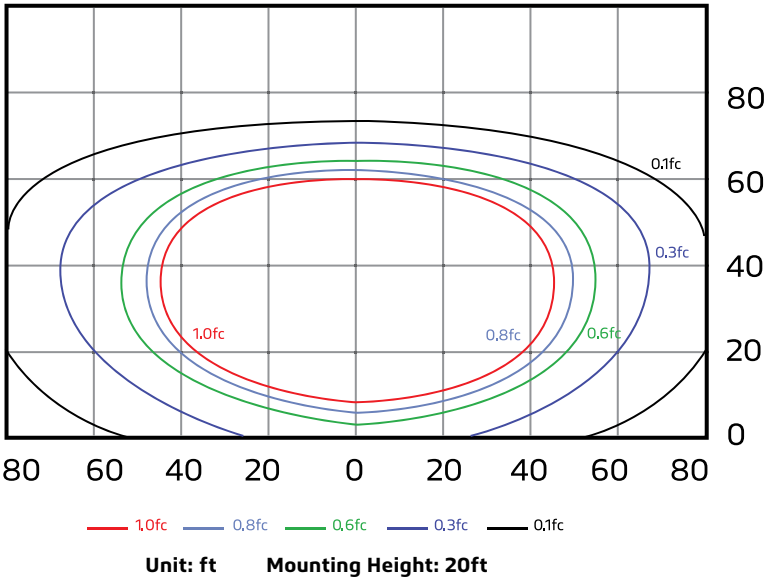
* The solar charge time data is base on 77 degree F ambient temperature with the panel pointed directly at the solar radiation. The standard radiation value is 1000W/m².



SATELIS 75W BAA

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IES / BEAM



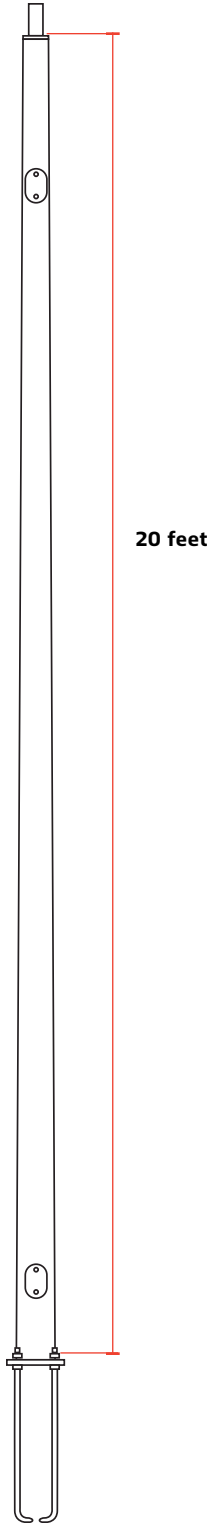
SATELIS BAA 75W Type III



SATELIS 75W BAA

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POLE SPEC—Round Tapered Steel Poles



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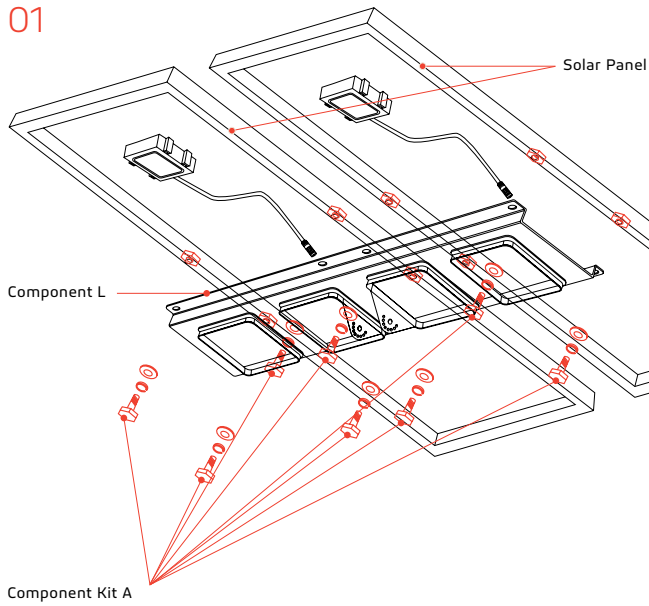
SWJ-RT8501120-BZ-3X7-DM2180-XHH					
CATALOG LOGIC		CODE	EXPLANATION		
SERIES:		RT	Round Tapered Steel Poles		
BASE DIAMETER:		850	8.5" Base Bottom Diameter		
GAUGE:		11	11 Gauge Thickness		
NOMINAL HEIGHT:		20	20 Feet Tall		
FINISH:		BZ / GY	Bronze / Gray Finish Colors		
MOUNTING DESIGNATION:		3X7, DM2180	2 7/8" OD X 7" Tenon, Drilled for 1 Luminaire and 1 Battery at 180		
OPTIONS:		XHH	Extra Hand Hole at 32" to the Pole Top		
HEIGHT (FT.)	POLE SHAFT (IN.)X(FT.)	GAUGE	HANDHOLE SIZE (IN.)X(IN.)	ANCHOR BOLT (IN.)X(IN.)X(IN.)	BOLT CIRCLE (IN.)
20	8.5 X 20.0	11	4 X 6.5	1.00 X 36 X 4	11.5
EPA	80 MPH (FT.²)	90 MPH (FT.²)	100 MPH (FT.²)	WEIGHT	SHIP WT. (LBS.)
	29	22	18		309

SATELIS 75W BAA

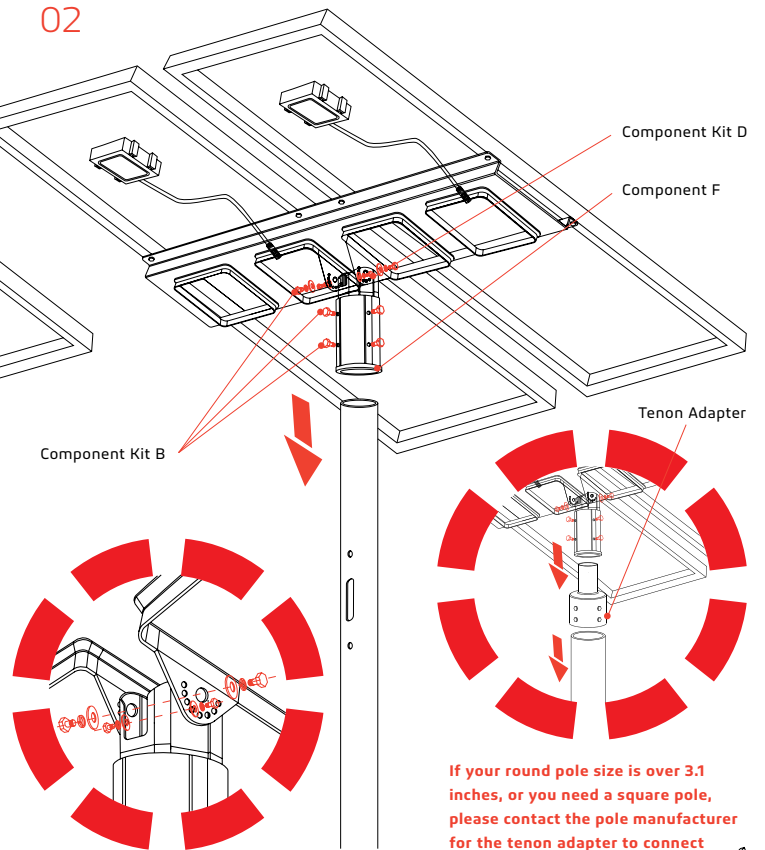
SATELIS BAA 75W

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01

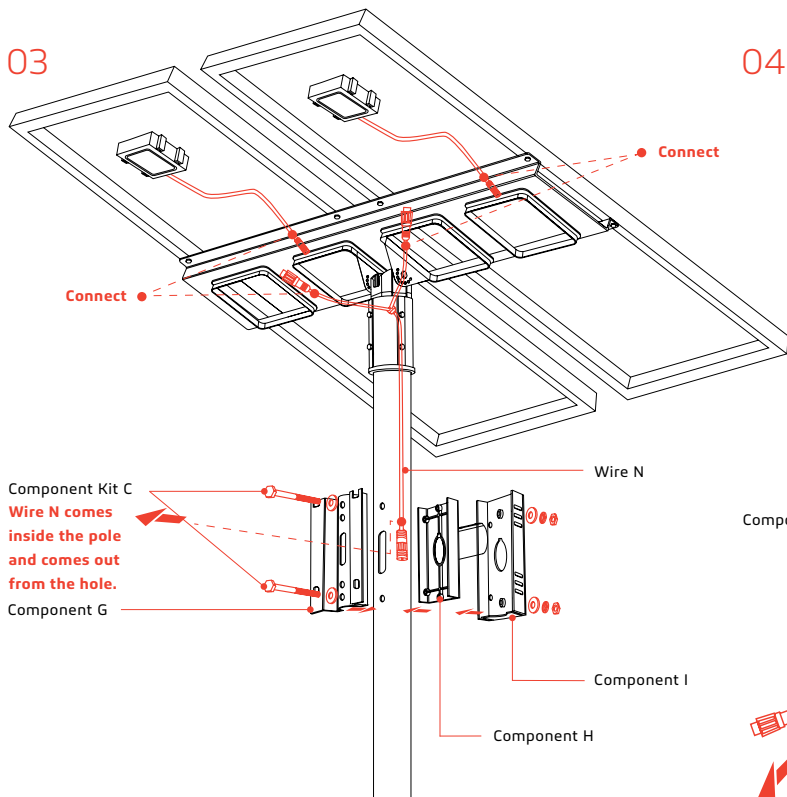


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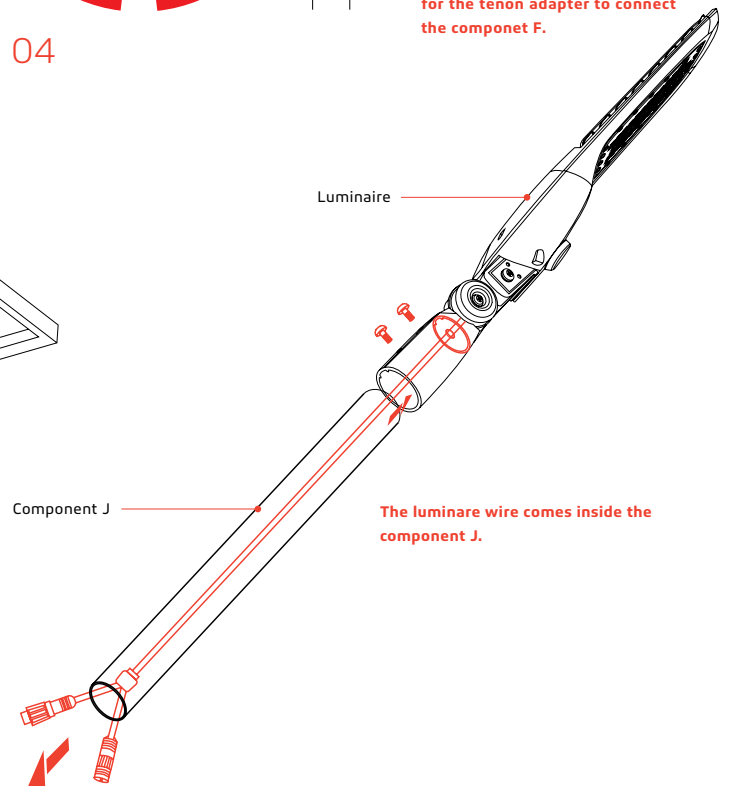


If your round pole size is over 3.1 inches, or you need a square pole, please contact the pole manufacturer for the tenon adapter to connect the component F.

03



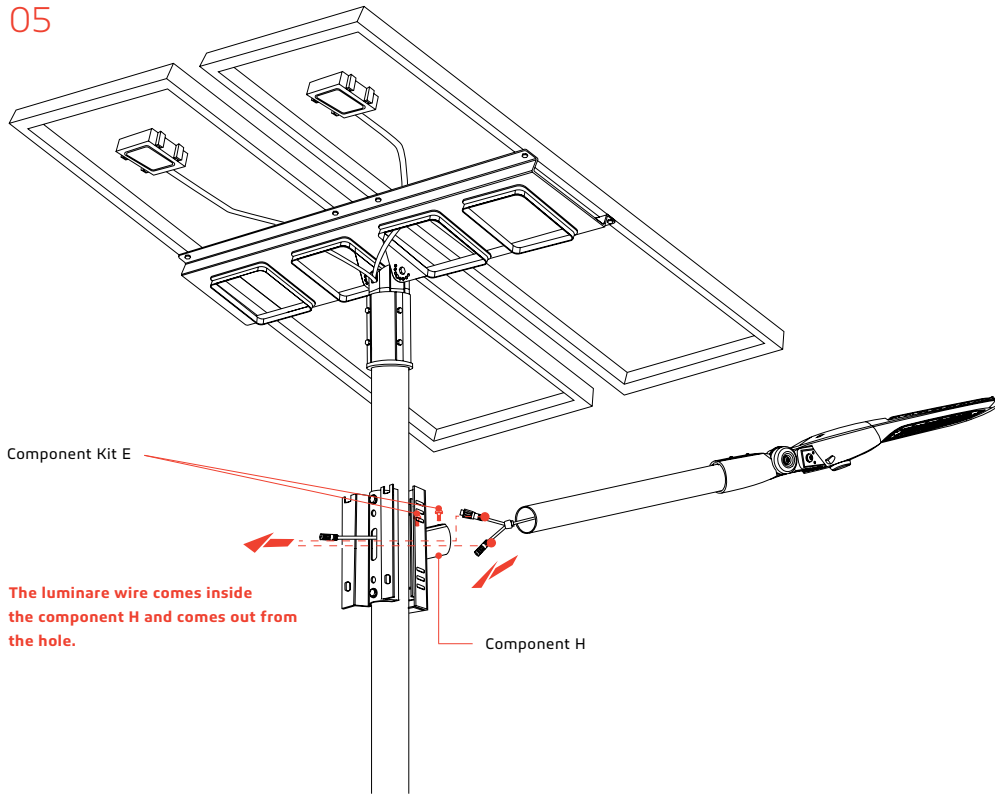
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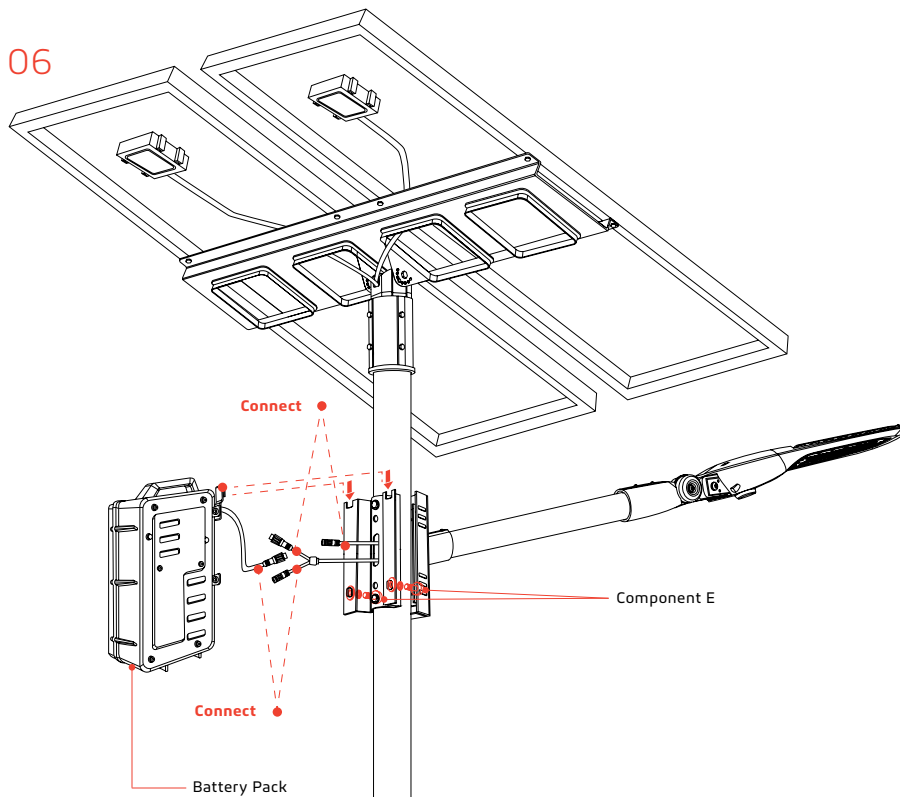
SATELIS 75W BAA

SATELIS BAA 75W

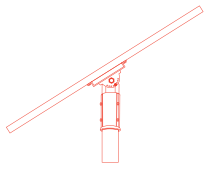
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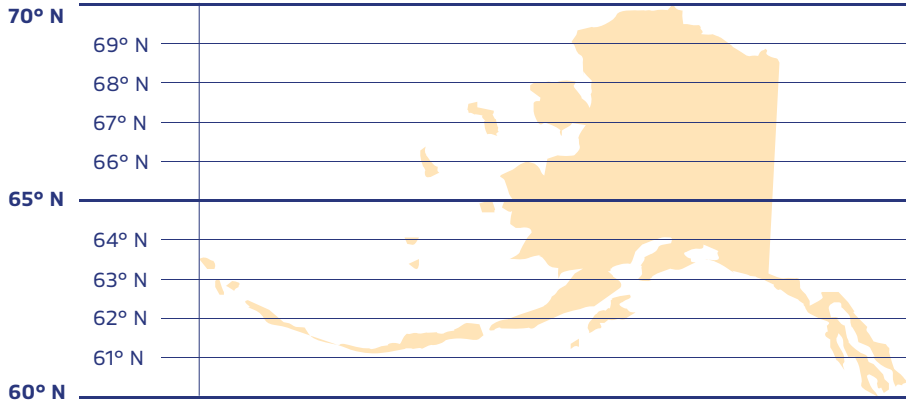
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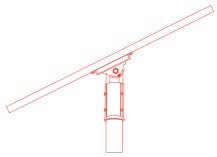
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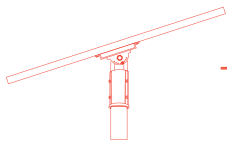
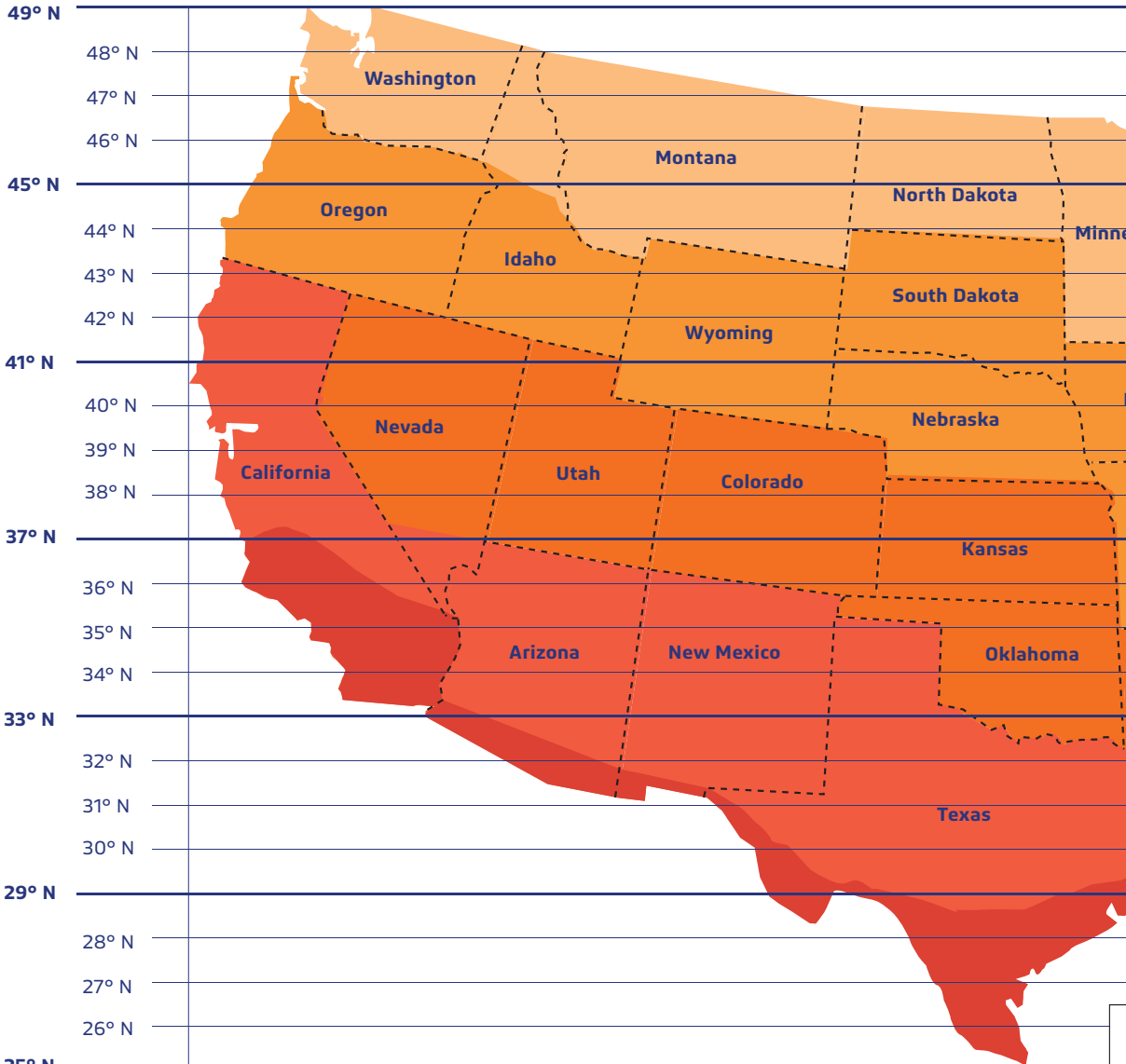
60°



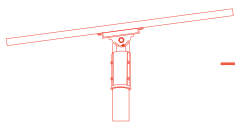
Alaska



45°

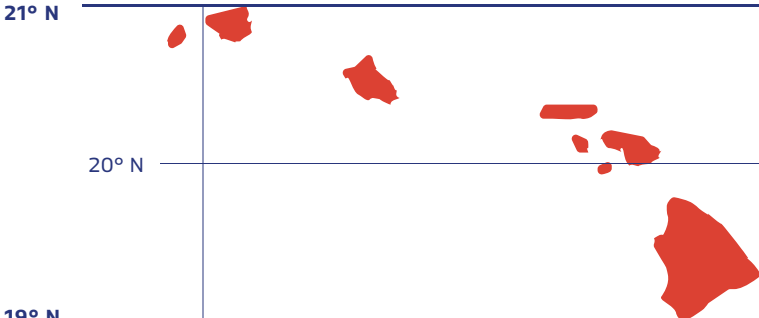


30°



15°

010



Hawaii

SATELIS 75W BAA

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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.

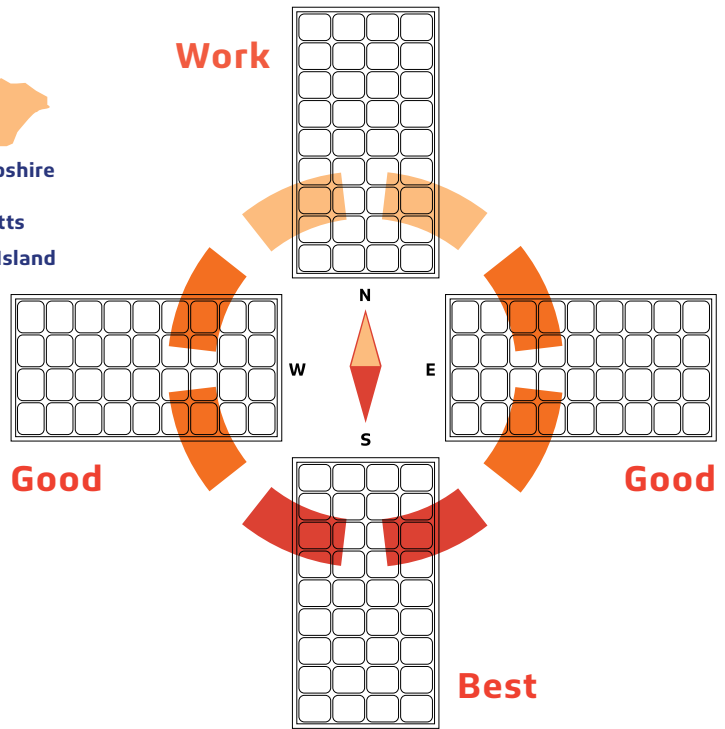
Tip

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

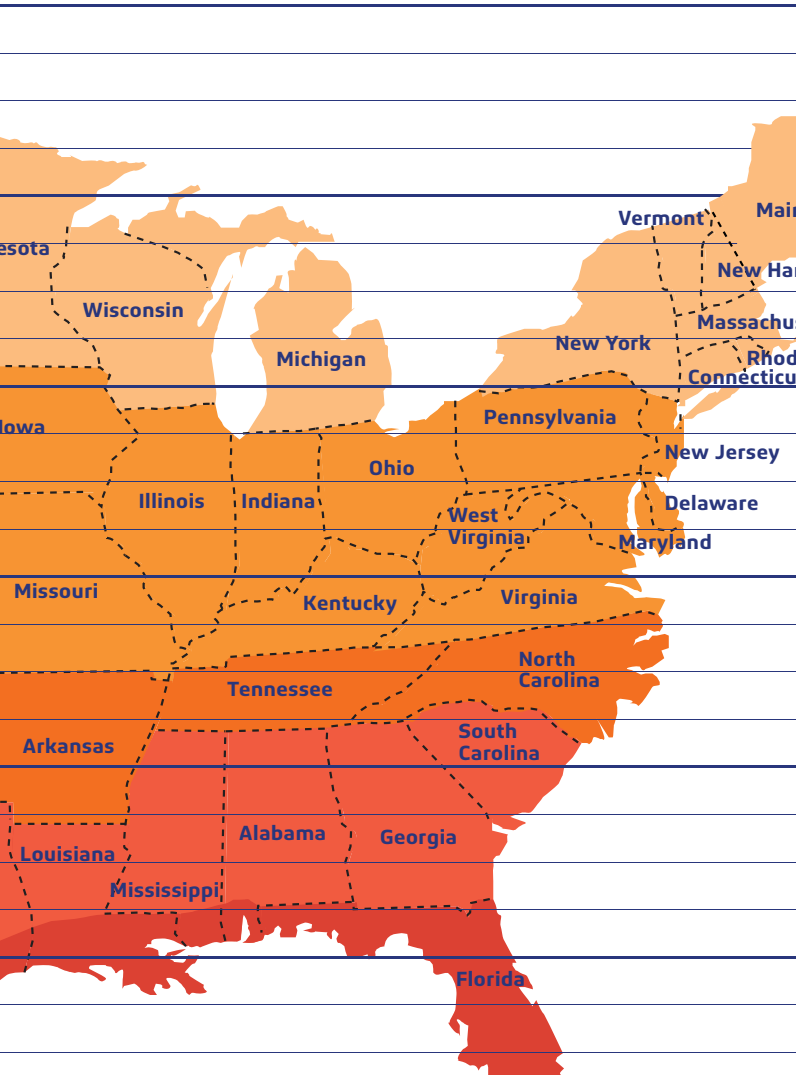
Key



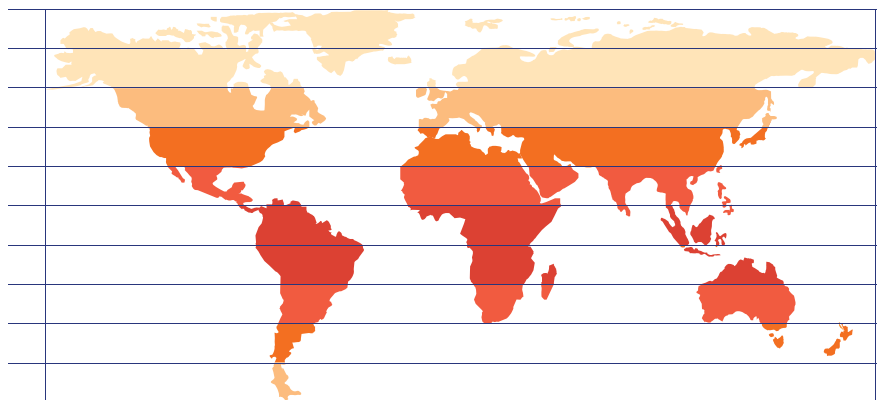
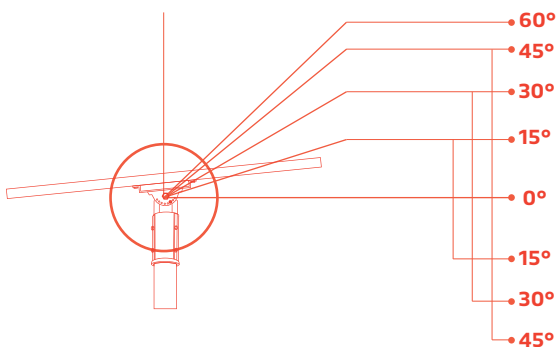
Best Facing Direction of Solar Panel



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.

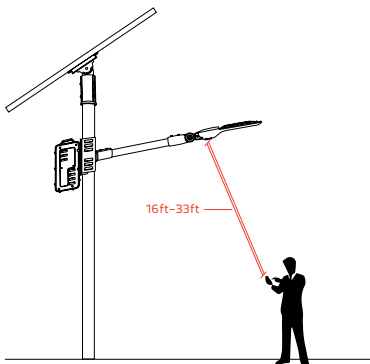
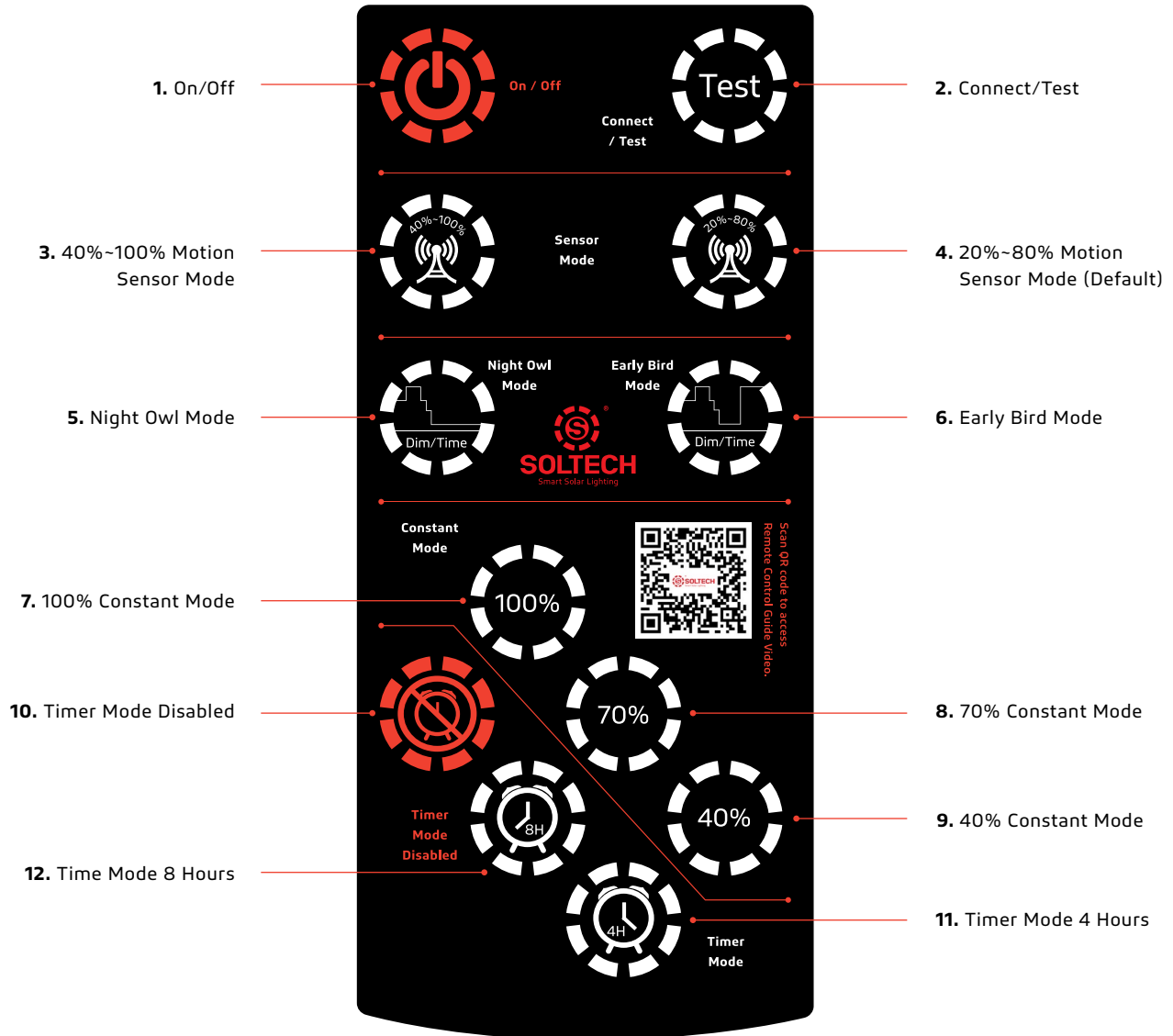


World Wide Panel Angles



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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

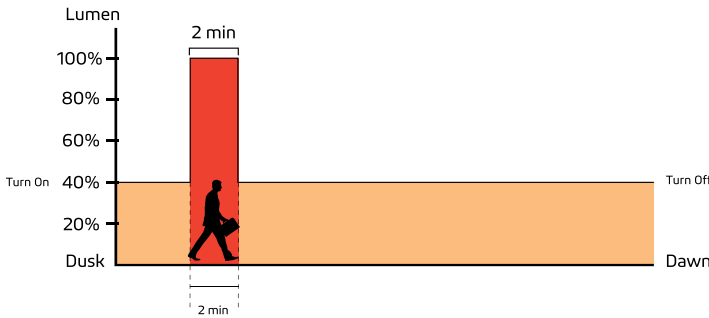
Remote control device can be connected with any lighting fixture, one at a time. To connect, press the button once. It also functions as a test button. To test, press the "Test" button once, the red light will indicate the fixture is charging, green light indicates that the fixture is operating. Testing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

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REMOTE CONTROLS

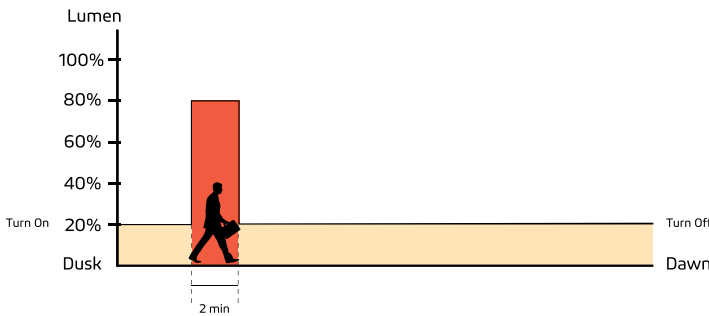
3. 40%-100% Motion Sensor Mode

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



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.

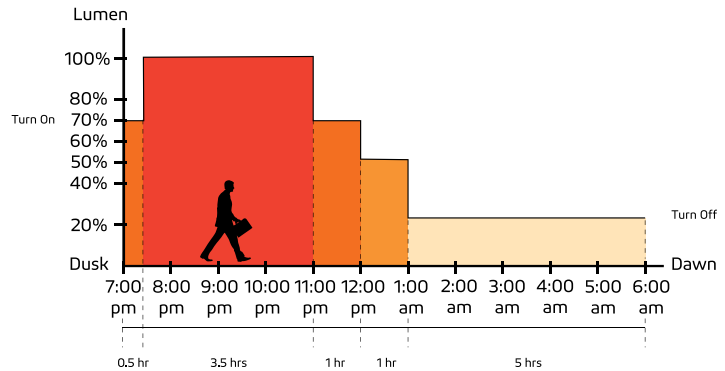


(IAP) Intelligent Adaptive Program Battery Control Technology

In order to extend the off-grid autonomy of the SATELIS BAA 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%.

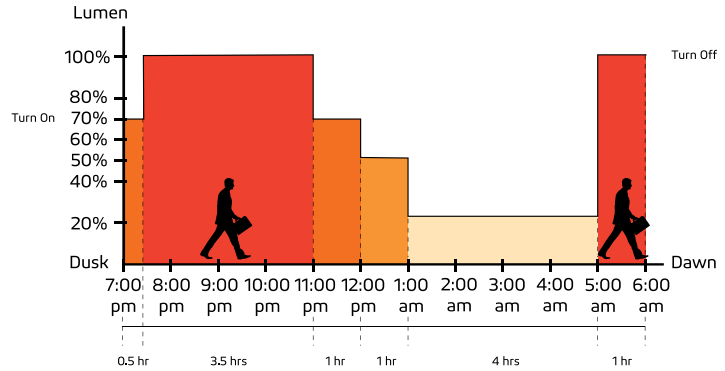
5. Night Owl Mode

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).



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).



Important

Dusk and dawn time may be different 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.



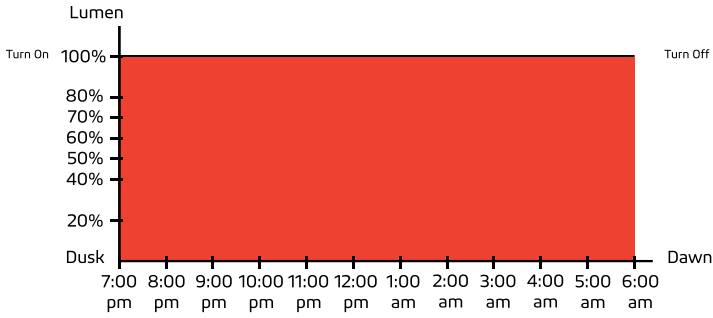
SATELIS 75W BAA

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REMOTE CONTROLS

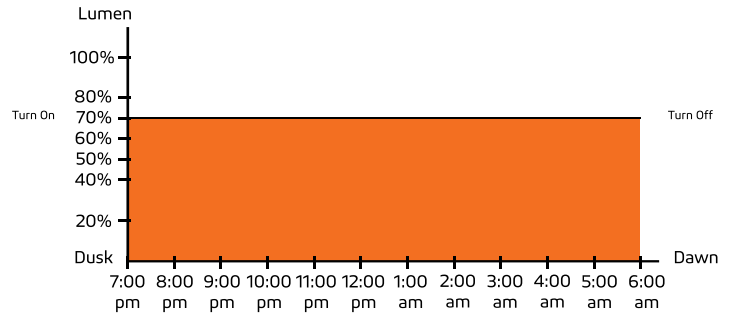
7. 100% Constant Mode

100% brightness from dusk to dawn.



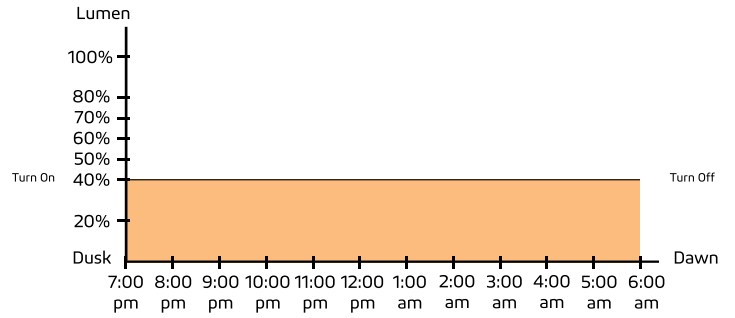
8. 70% Constant Mode

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.

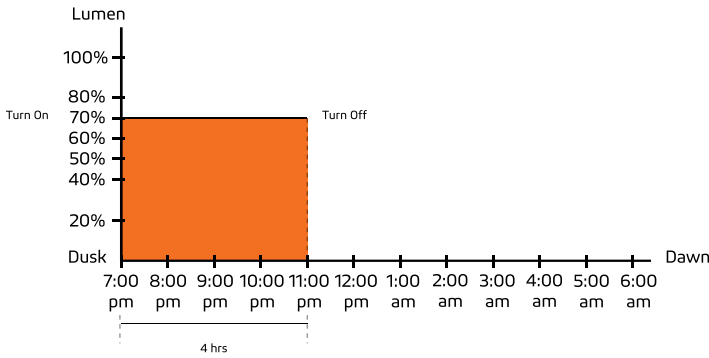


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REMOTE CONTROLS

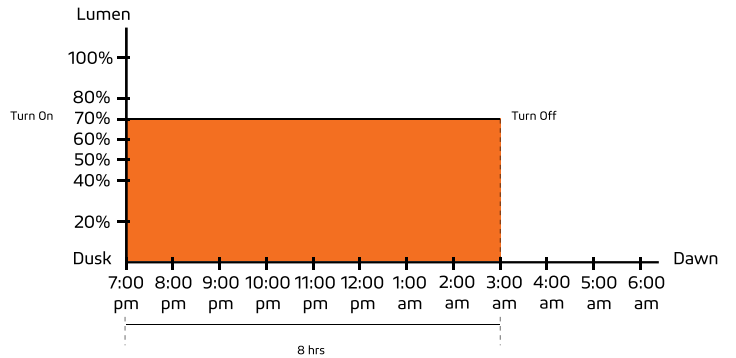
11. Timer Mode 4 Hours

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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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.



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WARRANTY

SATELIS BAA product is 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.



1460 Park Avenue.
Emeryville, CA 94608 USA

soltechlighting.com

SOLTECH LLC reserves the right to update all product data sheets at any time. Consult SOLTECH marketing specialists for publication updates at hello@soltechlighting.com

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