



# MORAGA

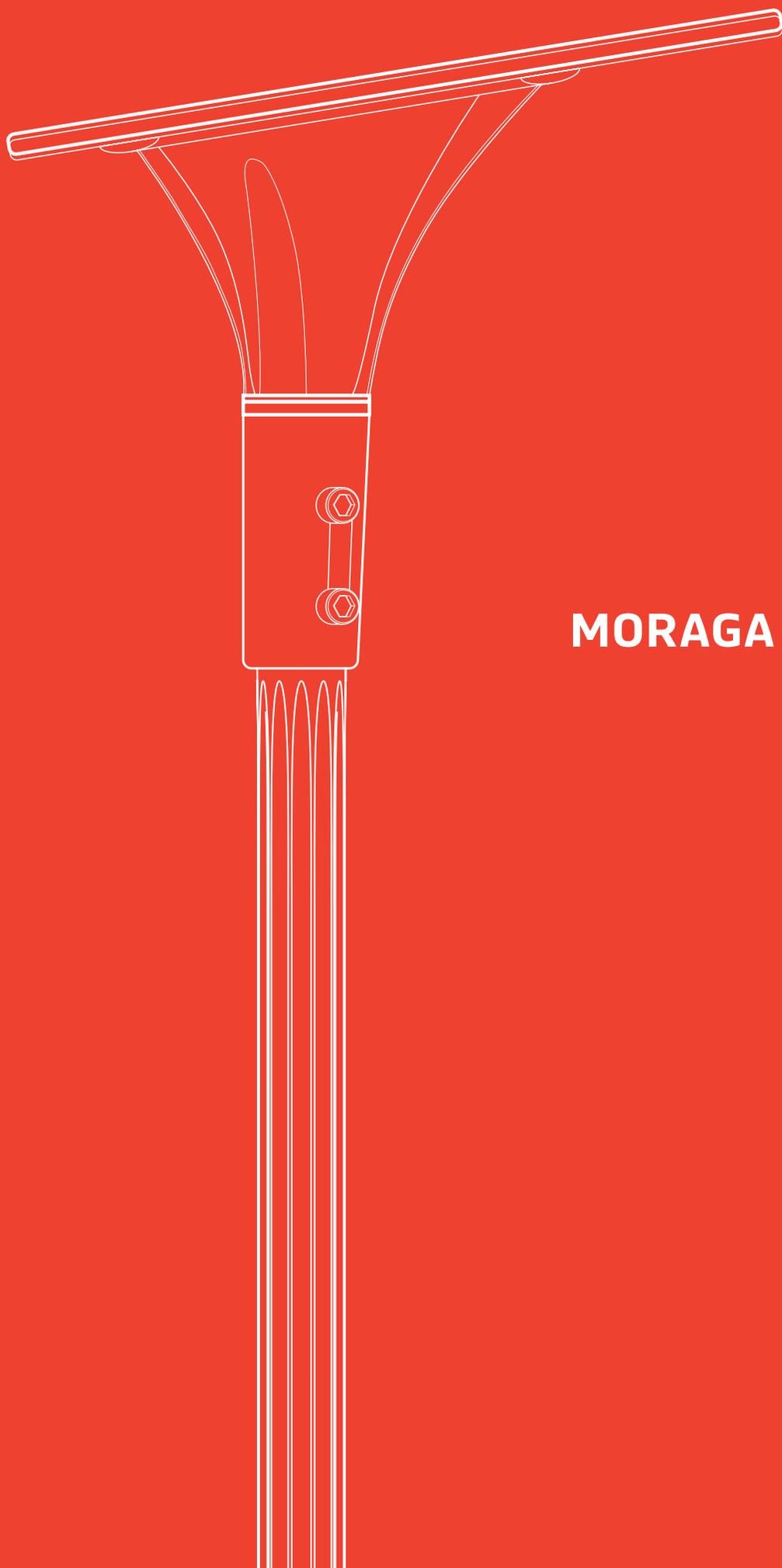
18W

## Installation Manual

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



**SOLTECH**  
Smart Solar Lighting



**MORAGA 18W**

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# 01 Introduction

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**Thank you for purchasing MORAGA Urban Lighting Products.**

## **Introduction**

Incorporated with a simplified cosmetic appearance, MORAGA combines the latest technology of Superior batteries, efficient solar panels, and a smart control system to cultivate the ultimate design and experience for users. The high efficiency 42W solar panel and MPPT solar charge controllers are adopted to ensure sufficient electrical power could be generated every day to ensure stable luminaire work without blackout year-round.

## **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.

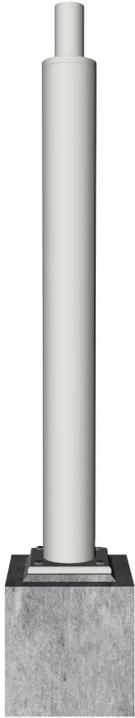
Please save these instructions. Read all of the instructions carefully before attempting to carry out any installation or wiring. Do not open or attempt to repair the product on your own, as it may cause serious damage and would void the product warranty. Contact your local distributor for any questions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

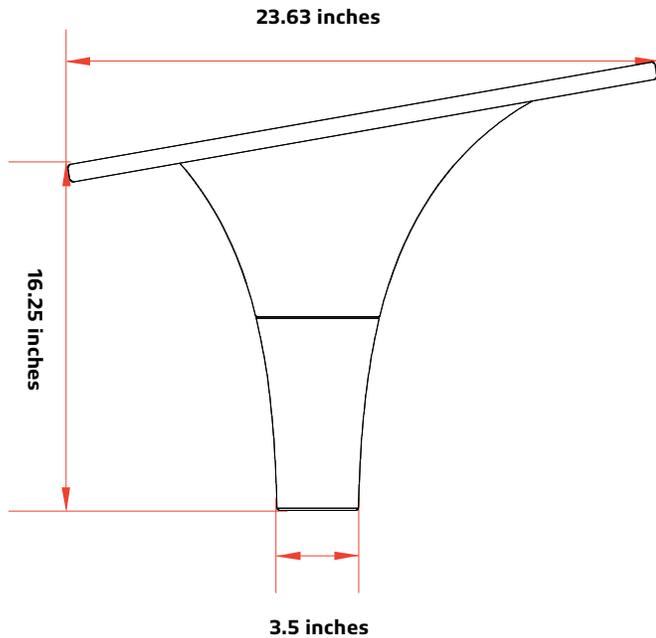
# MORAGA 18W

Round Non-Tapered Steel Pole—10Ft



SWJRS4001110-BK-3-BC					
CATALOG LOGIC		CODE	EXPLANATION		
<b>SERIES:</b>		RS	Round Non-Tapered Steel Poles		
<b>BASE DIAMETER:</b>		400	4.0" Base Bottom Diameter		
<b>GAUGE:</b>		11	11 Gauge Thickness		
<b>NOMINAL HEIGHT:</b>		10	10 Feet Tall		
<b>FINISH:</b>		BK	Black Finish Colors		
<b>MOUNTING DESIGNATION:</b>		3	2 7/8" OD Tenon		
<b>OPTIONS:</b>		BC	Base Cover		
HEIGHT (FT.)	POLE SHAFT (IN.)X(FT.)	GAUGE	HANDHOLE SIZE (IN.)X(IN.)	ANCHOR BOLT (IN.)X(IN.)X(IN.)	BOLT CIRCLE (IN.)
10	4.0 X 10.0	11	2 X 4	0.75 X 17 X 3	8
EPA	80 MPH (FT. <sup>2</sup> )	90 MPH (FT. <sup>2</sup> )	100 MPH (FT. <sup>2</sup> )	WEIGHT	SHIP WT. (LBS.)
	31	24	19		78

## Light Head



# 02 Battery Notes

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1. The Superior-battery-powered MORAGA 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 7.5 hours.
3. The rechargeable battery can work continuously for 12–14 hours at full power.
5. Battery will stop charging when the ambient temperature is below -30°C/-20°F or above 140°F.

## **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.

# 03 Installation and Wiring Compliance

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1. Installation and wiring must comply with the State and National Electrical Codes.
2. The MORAGA 18W 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.

## **After Installation**

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

## **Important**

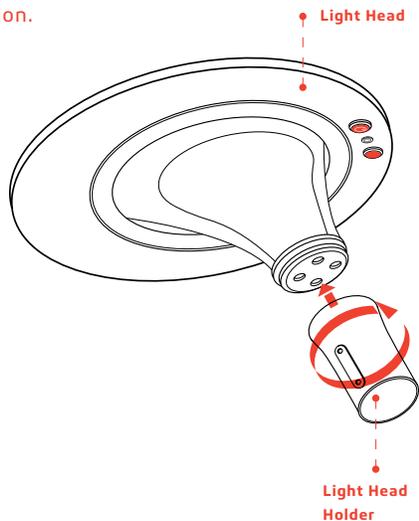
Always orient the solar panel facing the equator (e.g. facing south if in northern hemisphere).

# 04 Installation

## Pole Mount

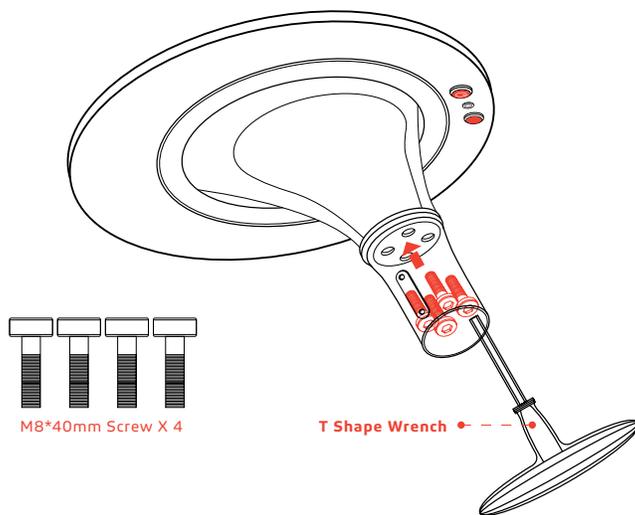
**01**

Connect the light head holder with the light head, and rotate the holder to the right position. There should be NO gap between the light head and the holder.



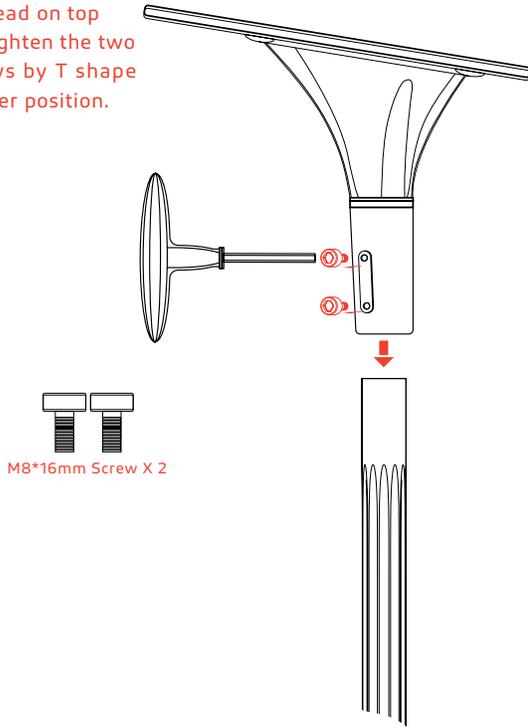
**02**

Tilt the light head, place the screw on the T shape wrench. Install the 4pcs of M8\*40mm screws inside of the light holder, and tighten them.



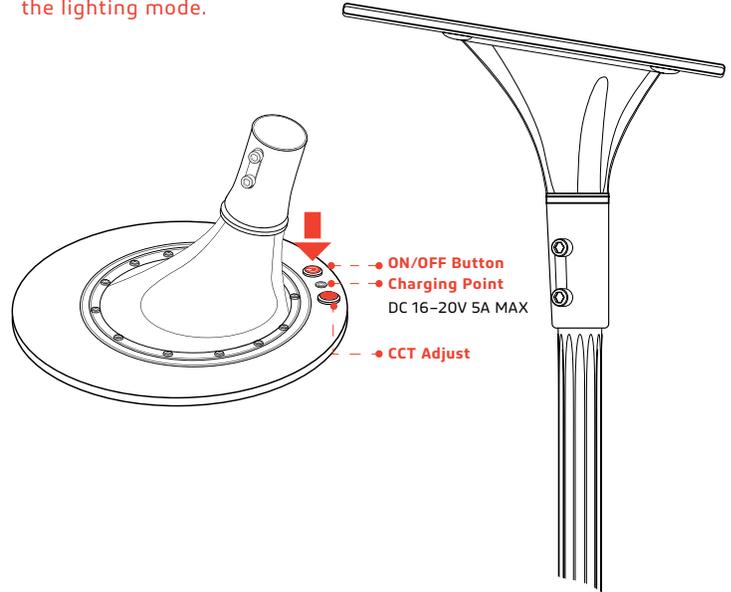
### 03

Place the light head on top of the pole and tighten the two M8\*16mm screws by T shape wrench into proper position.

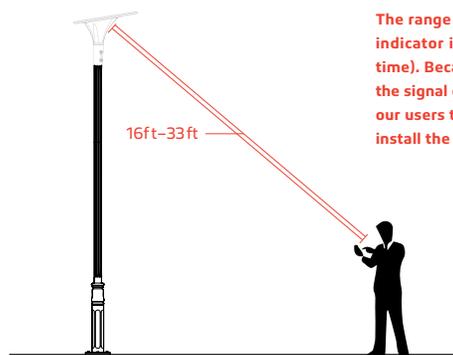
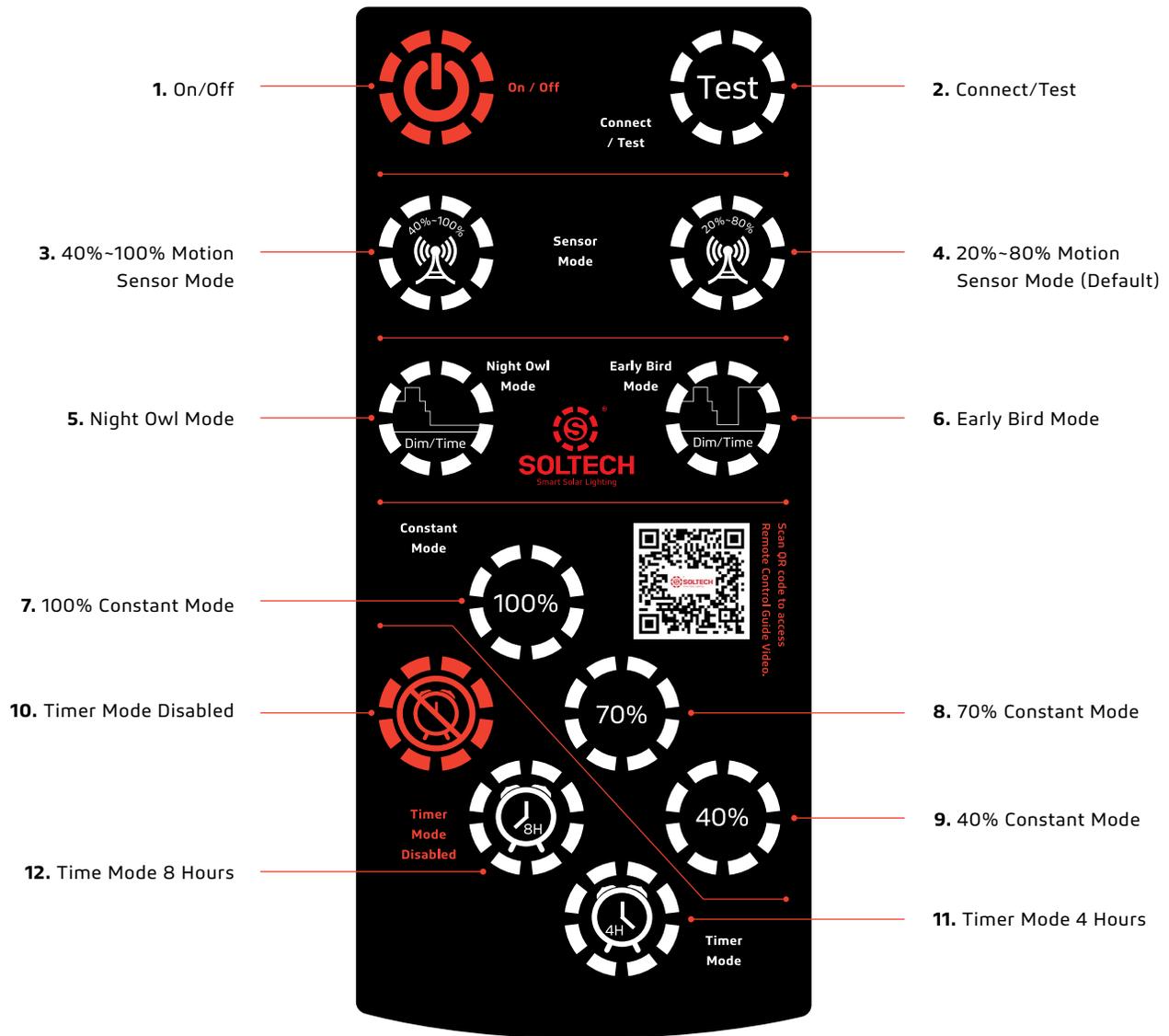


### 04

Press the **ON/OFF Button** on the light head to turn the light on. Then use remote control to set the lighting mode.



# 05 Remote Control Guide



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

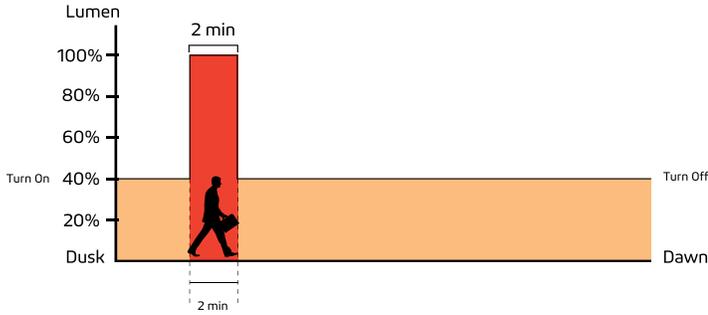
When off is selected, the light will stop working. The solar panel will not charge the battery and the battery will not supply electricity to the light.

## 2. Connect/Test

Remote control device can be connected with any lighting fixture. When all cables are connected and solar panel detects 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.

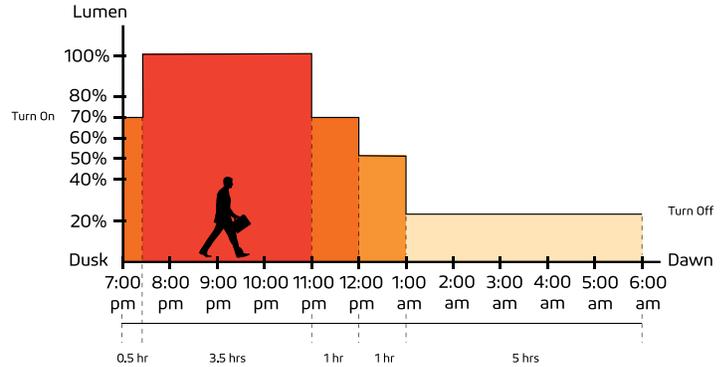
### 3. 40%-100% Motion Sensor Mode

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



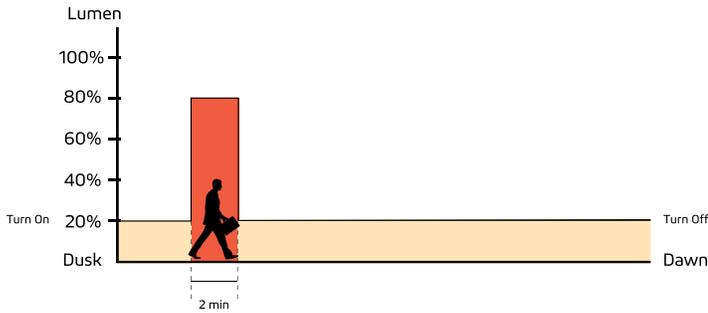
### 5. Night Owl Mode

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).



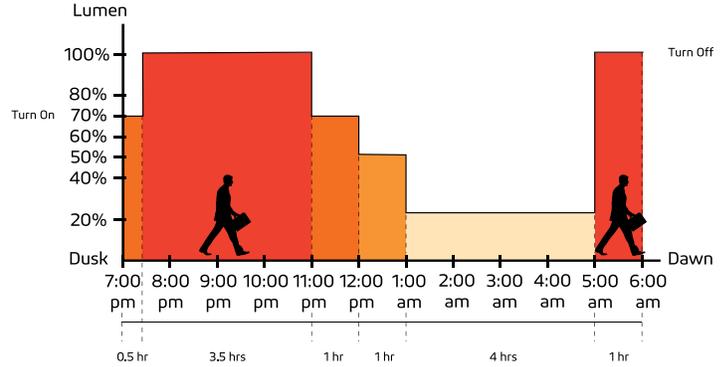
### 4. 20%-80% Motion Sensor Mode (Default)

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).



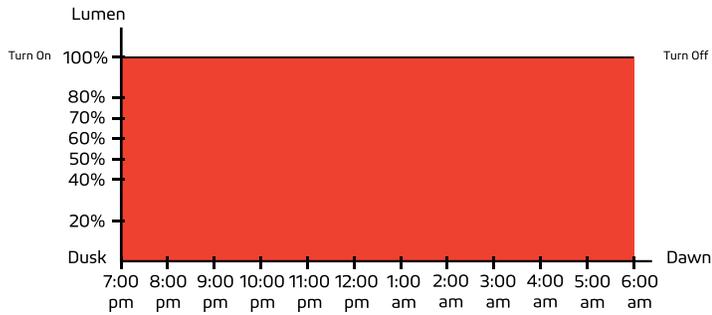
### Important

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.

# 05 Remote Control Guide

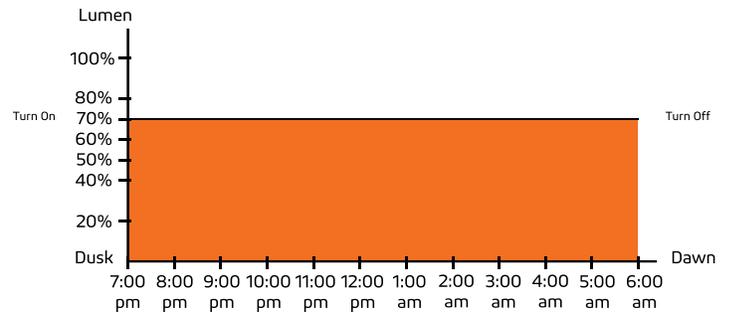
## 7. 100% Constant Mode

100% brightness from dusk to dawn.



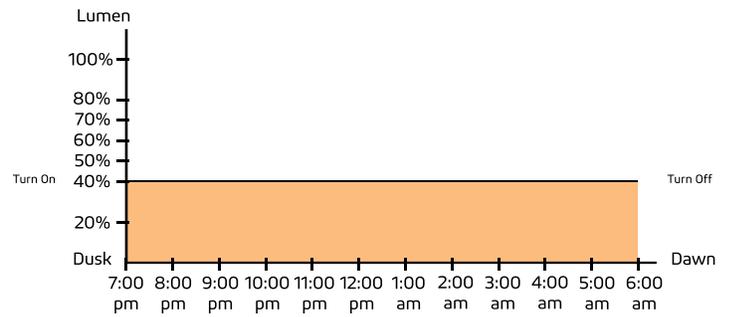
## 8. 70% Constant Mode

70% brightness from dusk to dawn.



## 9. 40% Constant Mode

40% brightness from dusk to dawn.

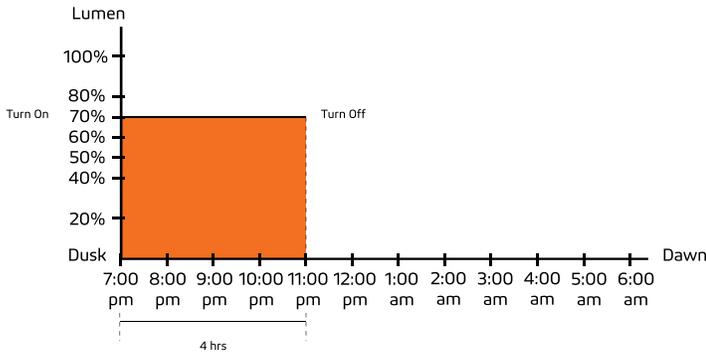


## 10. Timer Mode Disabled

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

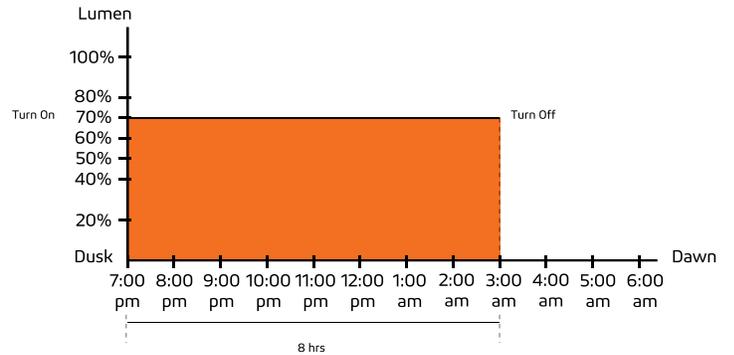
### 11. Timer Mode 4 Hours

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.

**MORAGA products are covered by a 3 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 3 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.**



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1460 Park Avenue.  
Emeryville, CA 94608 USA

[soltechlighting.com](http://soltechlighting.com)

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