

SUNSET SOLAR OPAL

SKU# 221015,221016

Rated Voltage 5 VDC

To ensure correct function and safety, please read and follow all instructions carefully before assembly, installation and use of the product. Please keep instructions for future reference.

Warranty

- This product is covered by a 5 year warranty from the date of purchase. Please retain proof of purchase.
- Warranty will be void if there is any damage due to improper usage or modification to the fitting.
- Failure to comply with the instructions in this manual may increase the risk of damage or injury and will void warranty.

Installation requirements

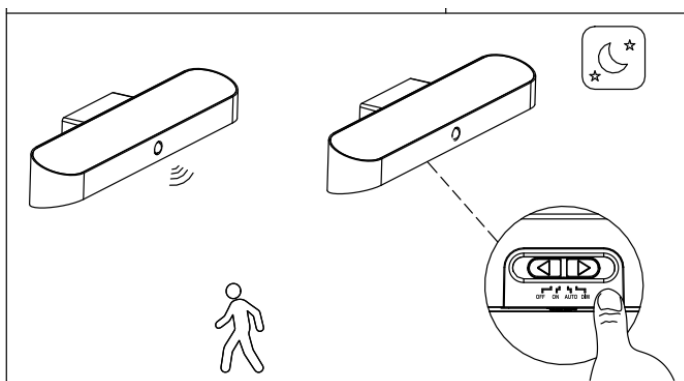
- Select a suitable location for installation;
 - This product is suitable for outdoor use only.
 - The mounting point must be able to support 2 times the weight of the luminaire.
 - This product is protected against water penetration to IP65 standards, which is splashing in every direction and is not designed to be immersed in water.
 - See the **Sensor Information** section in this instruction manual for additional information about the sensor detection range and sensitivity, to select a suitable installation location.
- The luminaire must not be used if the protective shield or shade has been cracked or damaged. Replace the protective shield or shade before using the luminaire.
- Lay out all the components on a smooth surface and make sure there are no components missing before assembling. If parts are missing, return the complete product to the place of purchase for inspection or replacement.
- Check whether the fitting has been damaged during transport. Do not operate/install any product which appears damaged in any way. Return the complete product to the place of purchase for inspection, repair or replacement.

Sensor Information

PIR (PASSIVE INFRA-RED) SENSOR:

The luminaire has a PIR (Passive Infra-Red) sensing device which continuously scans the operating zone and immediately switches the luminaire on when it detects any movement in that area. Whenever movement is detected within the sensor range, the luminaire will switch on automatically to illuminate the area.

NOTE: When the toggle switch on the luminaire is at "AUTO" location or "DIM" location, while there is movement within the sensor range, the luminaire will remain on.



SENSOR LOCATION & DETECTION:

- The ideal mounting height is between 2m – 2.5m (Fig. A)
- The maximum detection area is approximately 8m away with an angle of 120°. The detection area will vary depending on the mounting height and items in the detection area. (Fig. B)
- The sensor has increased sensitivity with movement across the detection area. (Fig. C)
- The sensor has reduced sensitivity with movement towards and away from the detection area. (Fig. D)
- If movement is made walking directly towards or away from the sensor and not across its detection area, the detection range will be substantially reduced.
- The detection area may also alter at different temperatures.
- To avoid damage to the sensor, do not aim the sensor towards the sun.
- To avoid false triggering:
 - The sensor should be directed away from potential heat sources such as air conditioners, exhaust vents etc.
 - Avoid areas with strong electromagnetic disturbance, outside lighting, moving cars, trees, pets etc.
 - Do not aim towards reflective surfaces, such as smooth white walls, swimming pools, ponds etc.
 - Avoid installing the luminaire in close proximity to any fluorescent luminaires or ceiling fans. RFI interference may cause the luminaire to switch on unintentionally.

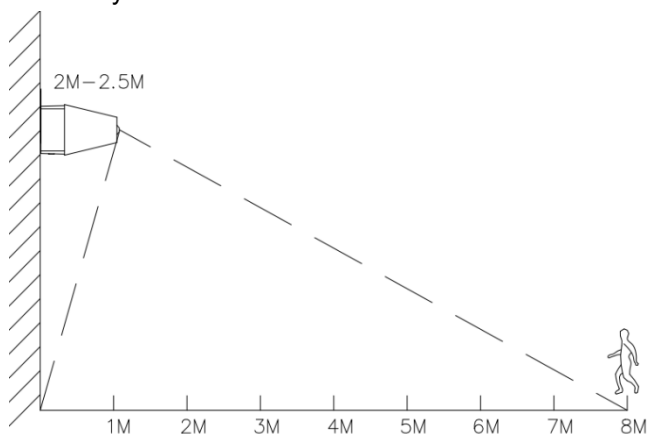


Fig. A

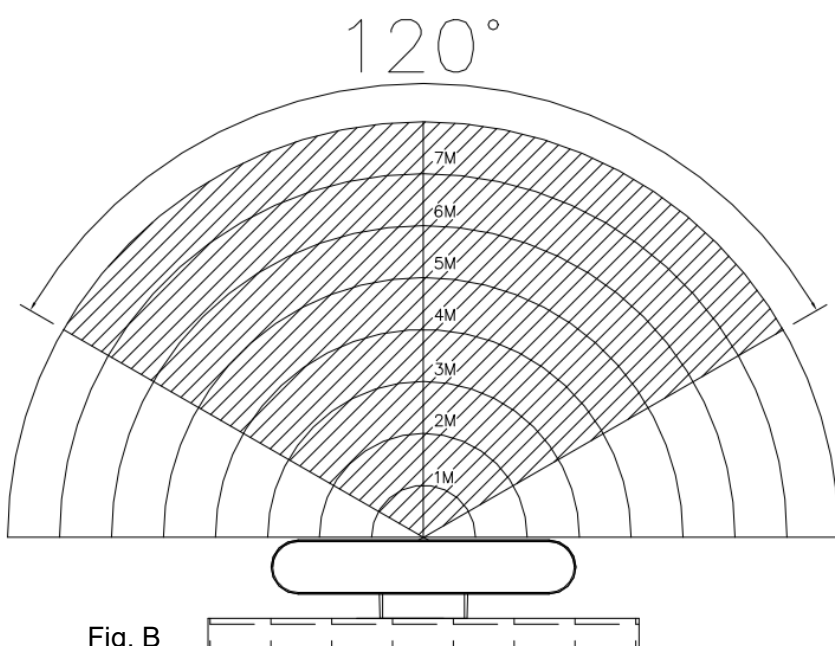


Fig. B

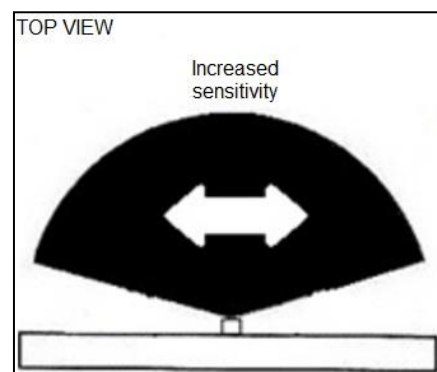


Fig. C

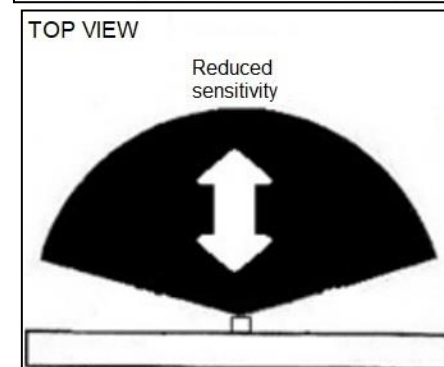
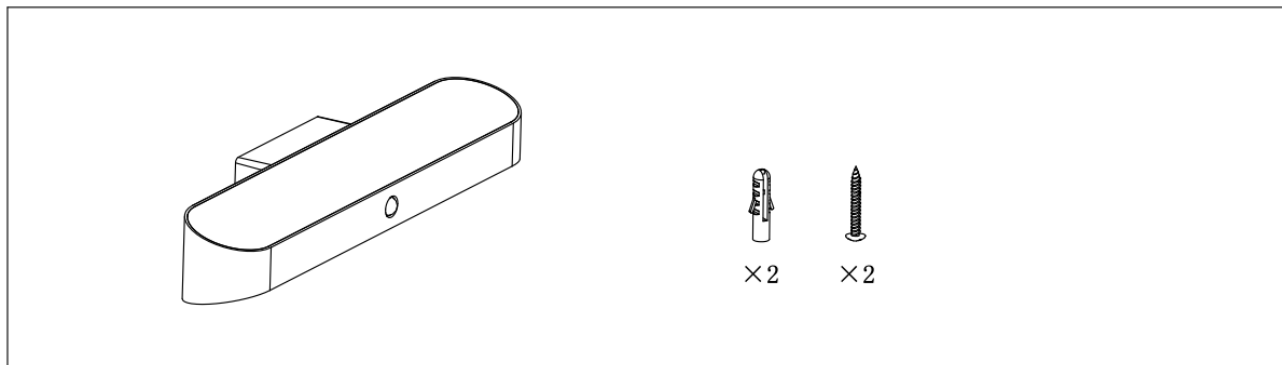


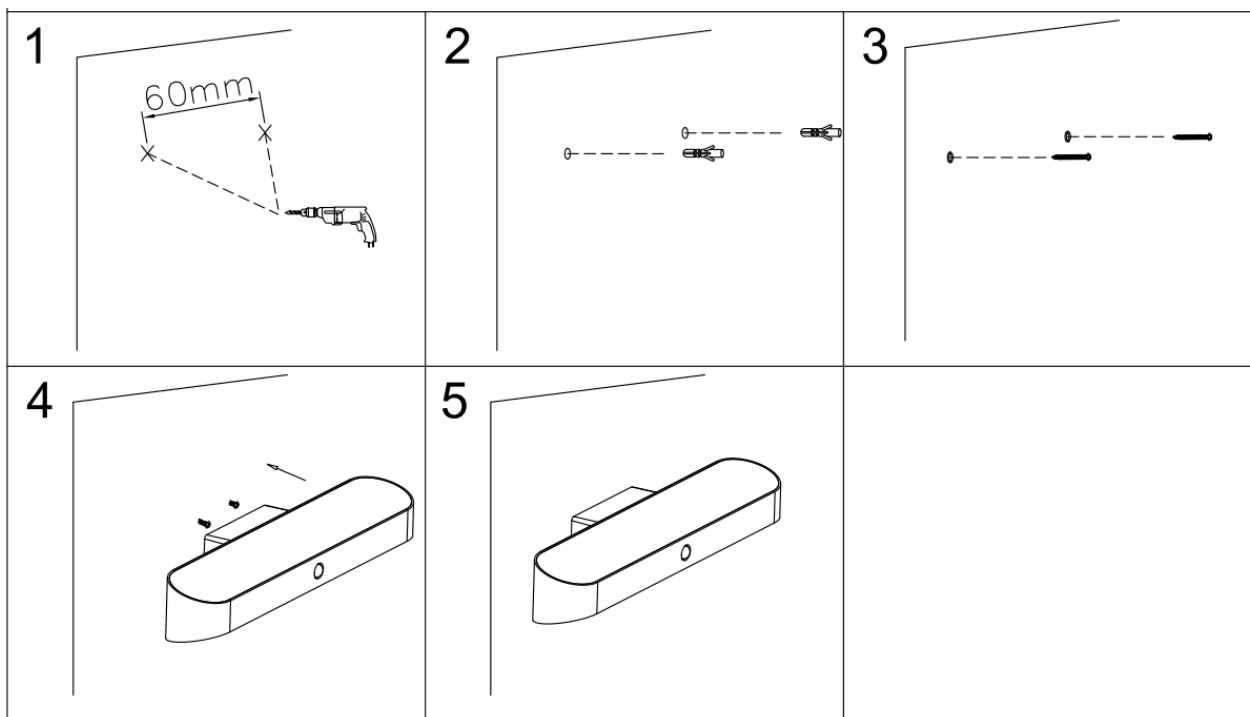
Fig. D

Installation directions

1. Remove all packaging material from the product and be careful not to throw away accessories that may be hidden within the packaging materials.



2. mark the mounting screw positions on the wall and drill the screw holes. Figure 1
3. install the anchors into the screw holes on the wall. Figure 2
4. install the mounting screws into the screw holes on the wall, leaving some threads outside, so as to hang the luminaire. Figure 3
5. install the luminaire onto the mounting screws. Figure 4
6. After the installation, test and enjoy your new lighting product.



Sensor Modes

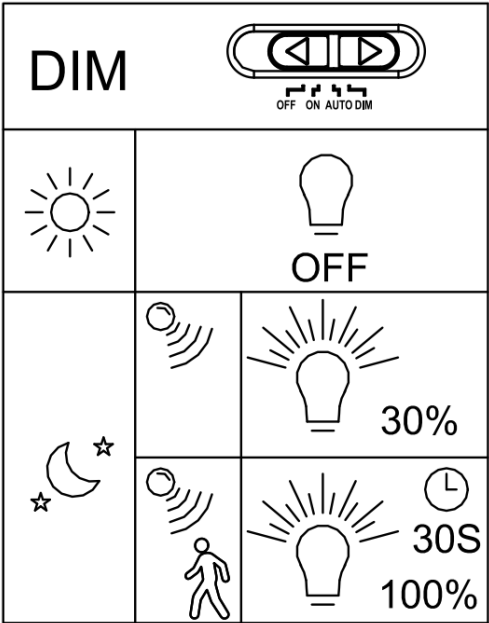
Use the toggle switch on the luminaire to select the Sensor Modes – OFF or ON or AUTO or DIM.

DIM MODE: switch to DIM

When the toggle switch on the luminaire is at “DIM” location, it’s “DIM DODE”.

When the ambient light is reduced to around 20 lux, the “DIM MODE” will turn on automatically and turn off automatically when the ambient light is above 20 lux.

When there is movement within the sensor range, 100% brightness will be activated; When there is not movement within 30s, brightness will last at 30%.

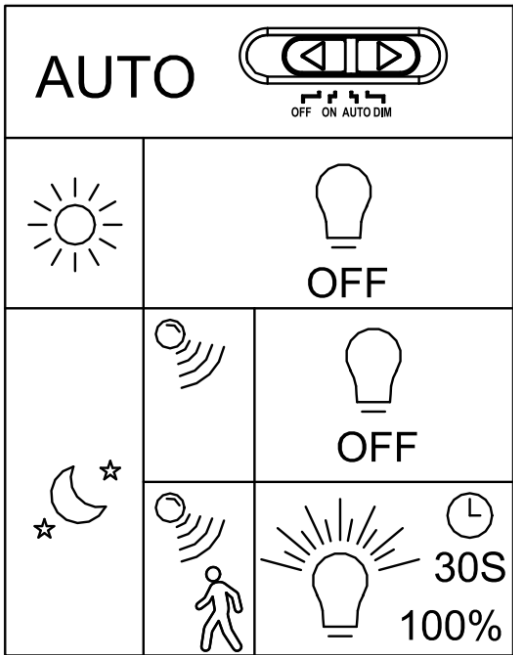


AUTO MODE: switch to AUTO

When the toggle switch on the luminaire is at “AUTO” location, it’s “AUTO MODE”.

When the ambient light is reduced to around 20 lux, the “AUTO MODE” will turn on automatically and turn off automatically when the ambient light is above 20 lux.

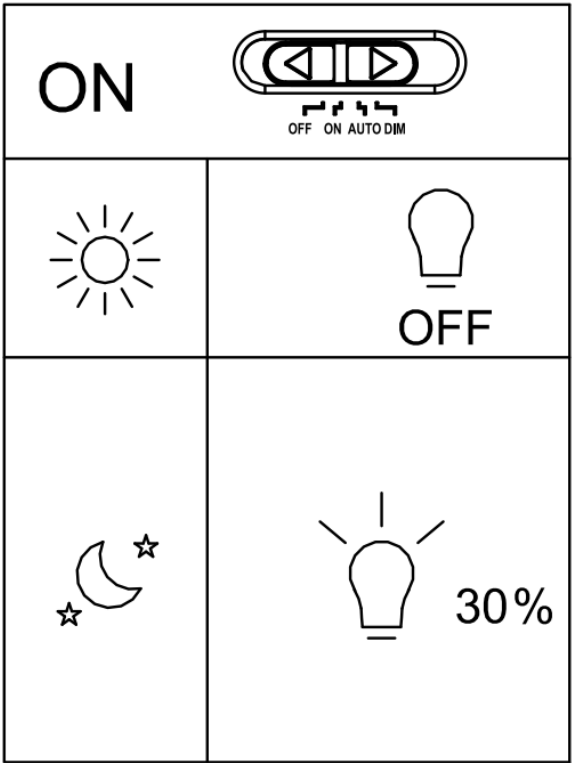
When there is movement within the sensor range, 100% brightness will be activated; When there is not movement within 30s, lamp will off.



ON MODE: switch to ON

When the toggle switch on the luminaire is at “ON” location, it is “ON MODE”

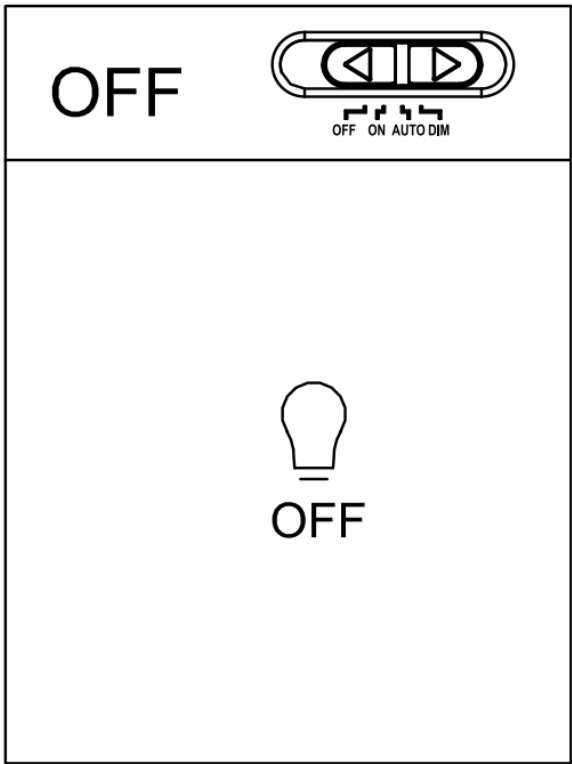
When the ambient light is reduced to around 20 lux, the lamp will light 30% brightness on automatically and turn off automatically when the ambient light is above 20 lux.



OFF MODE: switch to OFF

When the toggle switch on the luminaire is at “OFF” location, it is “OFF MODE”

The lamp is off.



Battery Replacement

This luminaire has a built-in rechargeable lithium battery. (Li-ion HB18650 2P, 3.7VDC, 4400mAh)

Battery full Charging time: Max.12 hours under strongest direct sunlight or 100W halogen bulbs at 100mm direct lighting distance

Full battery: when fully charged, light up time 10 hours (light 30% brightness) or 3.5 hours (light 100% brightness),

The battery has a limited life (1.5 – 2 years). After this time, the battery can be replaced following these steps:

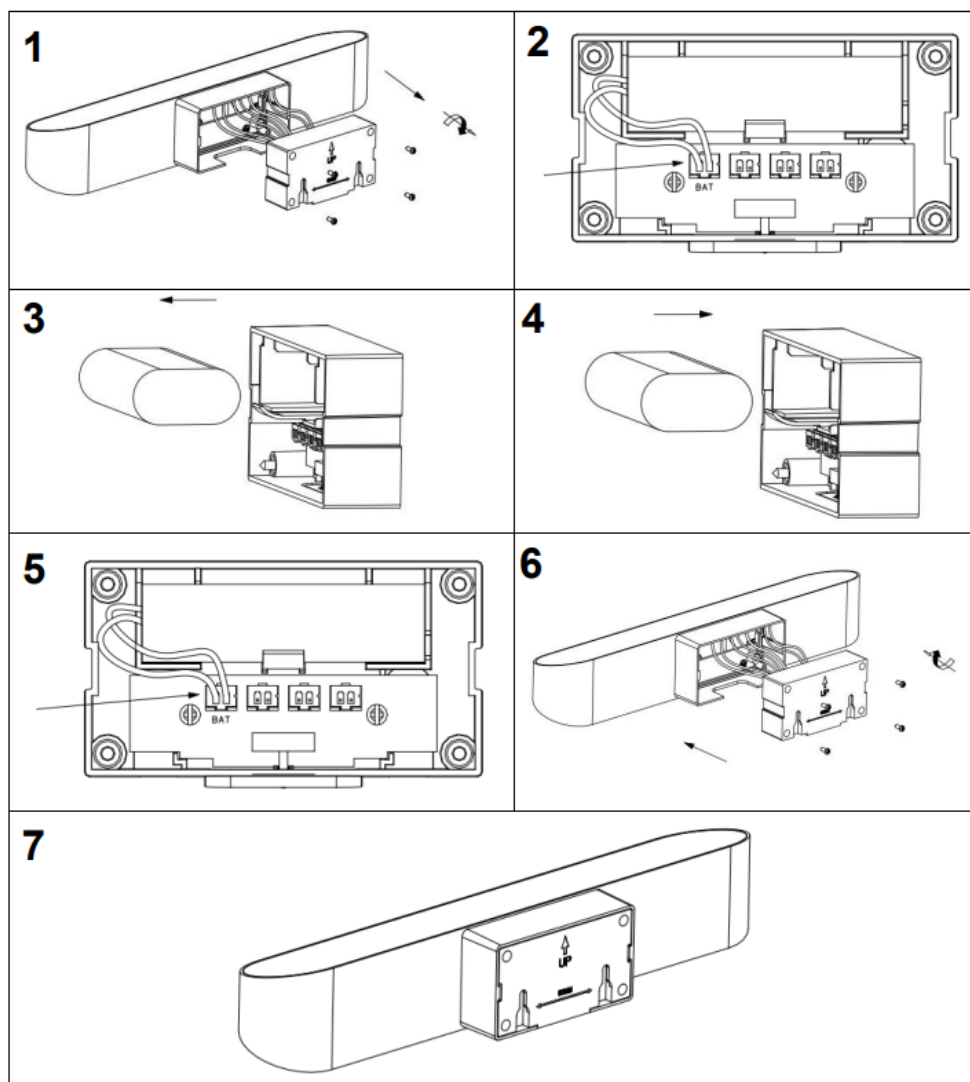
NOTE: During the battery replacement, do not scratch or damage the surface of the solar panel, as this will reduce its efficiency to recharge the battery.

1. Take down the luminaire and place on a smooth, flat non-scratch surface.
2. Remove the four screws on the base, open the base from luminaire. (Fig. 1)
3. Locate the wires from the battery to the luminaire and pull the connector from luminaire marked **BAT**. (Fig. 2)
4. Remove the old battery and replace with the new battery. (Fig. 3 & Fig.4)
5. Install the battery connector to the luminaire marked **BAT**. (Fig. 5)

NOTE: Dispose of exhausted batteries immediately and safely (so they cannot be retrieved by children).

Contact your local council to dispose of the battery safely.

6. Install the base back onto the luminaire, secure the screws. (Fig. 6)



Safety tips

- Always ensure the power is OFF and the luminaire has cooled down before performing any maintenance, cleaning, making any adjustment to the luminaire.
- Young children should be supervised to ensure that they do not play with the luminaire.
- Handle the luminaire with care to avoid any damage or breakage.
- To clean, wipe with a soft damp cloth. Do NOT soak or immerse the luminaire in water or other liquids.
- Ensure that the luminaire does not come in contact with corrosive chemicals/solvents or abrasive cleaners etc.
- The luminaire must not be used if the protective shield or shade has been cracked or damaged. Replace the protective shield or shade before using the luminaire.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life, the whole luminaire shall be replaced. There are no serviceable parts, do not attempt to dismantle or open the luminaire.
- Dispose of exhausted batteries immediately and safely (so they cannot be retrieved by children). Contact your local council to dispose of the battery safely.
- Do not install the fitting in a position where sunlight cannot reach the solar panel.

Specifications

SKU #	221015	221016
Colour	Black	White
Rated Voltage	5V DC	
Rated Wattage	10W	
LED Specs	700 lumens, 10W, 3000K, CRI > 80	
Battery Specs	Li-ion HB18650 2P, 3.7VDC 4400mAh Rechargeable Li-ion battery (included) Battery life (1.5 – 2 years) Replaceable battery*	
IP Rating	IP65	
Light up time	when fully charged, light up time 12 hours (light 30% brightness) or 3.5 hours (light 100% brightness), (and there has been sufficient sunlight)	
Weight	0.75kg	
Dimensions	W350mm H60mm E90mm MAX	

*Refer to the instruction manual for more details