

# Freelite™

Model: **PVP200-BL**

**CALI**

**Large Area Solar Lantern**

**With microwave motion sensor**

## **Installation Instructions**

**Ensure you read the instructions fully before commencing installation.**

This lantern offers you control over your lighting preferences boasting 6 different lighting mode options. The light, photovoltaic panel and battery with Energy Management System (EMS) are all in one, with a Remote included to set the lighting modes. The microwave sensor boosts brightness when someone is nearby (up to 8 meters) and dims it otherwise to save battery. The EMS gradually steps down light output overnight to manage battery life to provide lighting for several days. Ideal for courtyards, parks, driveways, carpark, and walkways.



## POSITIONING OF YOUR SOLAR LANTERN HEAD

For best results your PVP panel should be exposed to as much direct sunlight as possible. When positioning the lantern, account for objects that may cast shade for example fences and trees. In winter, the sun sits lower, and days are shorter, so ensure the PV panel has clear exposure to maximize battery charging during shorter days.

The microwave sensor detects vibration changes, triggering the light. To avoid unwanted activation, carefully choose the lanterns location, avoiding areas near occupied buildings or air conditioning unit motors etc, which may set off the sensor.

## PREPARATION BEFORE INSTALLATION:

Before unpacking the light, prepare a soft, clean surface like cardboard to avoid damage from harsh surfaces like concrete.

Unpack and inspect the contents for damage.

Then press the black **ON/OFF** button on the lamp head's top rim.

A small red indicator light will be visible inside the lantern top when ON.



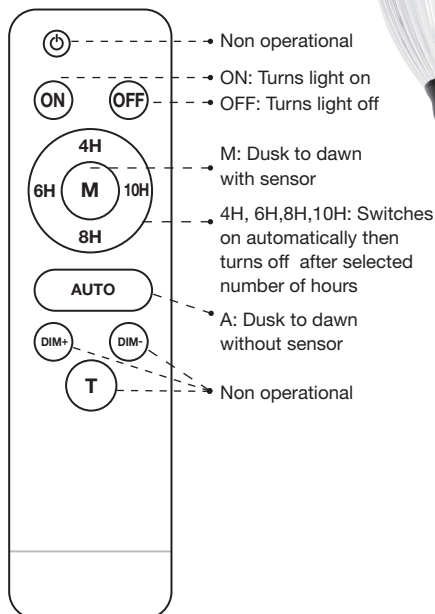
To test, cover the photovoltaic panel with a towel (or similar) or take the lantern into a dark room to activate the light.

## REMOTE CONTROL OPERATION:

Once the light has been switched on via the manual button on the top of the lantern head you can now use the remote control to activate the lighting functions.

### Remote control modes:

- The **ON** and **OFF** buttons are to force the Light ON or OFF
- The **M** button sets the light to work on dusk to dawn setting with the microwave sensor working.
- The **AUTO** button sets the light to work on dusk to dawn setting without the microwave sensor.
- **4H, 6H, 8H** and **10H** timer modes, Switches light off when the time selected is reached.



### Sensor Modes:

When the microwave sensor detects movement, Light output will be boosted and stay there until there has been no movement for a period of 30 seconds.

The EMS energy management system gradually steps down the light level during the night to ensure a battery level is retained for subsequent nights with a similar lighting cycle. The EMS ensures the light is running throughout the night or as per the selected mode. If set on dusk to dawn mode, the light automatically turns on at dusk and turns it off at dawn.

For good battery autonomy over several days, especially over cloudy short winter days, using either the **M** mode, **4H** or **6H** hour run time modes is preferable.

## INSTALLING THE CALI LANTERN

This lantern head requires a separate 76mm (3-inch) diameter pole. Slide it onto the pole and secure it by evenly tightening the four bolts. Purchase the pole and mounting accessories separately. It is recommend the pole be extended 3 meters above ground. Superlux offers the **T376**, a 3-meter pole with a base flange, and an optional **CAGE376** cage designed for use with the **T376** for casting into concrete or use a similar professionally prepared pole with a large concrete footing.

PVP200-BL  
Lantern Head

T376 Pole

## PRODUCT SPECIFICATIONS:

PVP Voltage	5V Monocrystalline
PV Peak Wattage	28 Watt
Battery Voltage	3.2V lithium Iron Phosphate
Battery Watt-Hours	128 Wh
LED Wattage	28 Watts
Light beam angle	150 degrees
Colour Temperature	3,000K
Measured Lumens	1,700 lm
Battery autonomy	2-3 days of cloud
Dimensions of light top	580mm height without post x 530mm diameter
Water Ingress Protection	IP65
Microwave sensor	8M range - 360 degrees out to 60 degrees from the pole
Materials	Die cast and extruded Aluminium and UV stabilised polycarbonate

## MAINTENANCE.

### Important:

Rain will wash dust off from the PVP however other debris will need cleaning off periodically with soapy water and a soft brush to maintain battery condition.

If this product is not working and is still not working after referring to the info centre at **[www.alphalighting.co.nz](http://www.alphalighting.co.nz)** do not attempt to repair the fitting yourself, please contact Gartner Superlux Ltd for advice.

### Note:

The battery is a recyclable item, at the end of life ensure you dispose of the product responsibly. Due to continuous design improvement, specifications are subject to change without notice.

**IMPORTANT KEEP INSTRUCTION SHEET  
IN A SAFE PLACE FOR FUTURE REFERENCE**