# Zorro Unplugged
## All-in-One Solar Luminaire

## Installation Instructions

The fitting needs to be mounted in an area that does not have shadows on the solar panel. Install the fitting within 3 months of purchase to prevent battery damage. The fitting has to be recharged manually with a charger every 3 months if stored for longer periods. If the fitting is stored, ensure the battery is fully charged and the fitting is turned off.

If two fittings are set to microwave sensor mode, they should be mounted >5m apart to avoid microwave sensor interference. Maximum installation height for motion sensor operation is 6m. The light will dim to 50% of the set brightness when the battery charge is less than 40%.

### Solar Panel Orientation
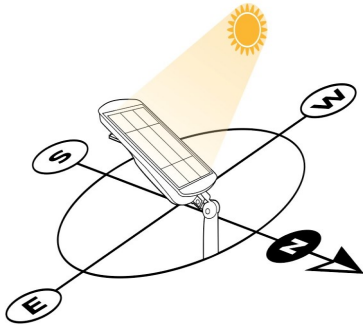
Orientating the solar panel so it faces **North** will ensure optimal charging. East or West facing solar panel can reduce charging of the battery by up to 30% in winter. The solar panel should **not** be facing South. Orientations other than North East, North and North West may void the battery warranty.

### Solar Panel Tilt

To achieve the best performance of the solar light, the tilt angle of the solar panel should be as close as possible to the following depending on the installation location.
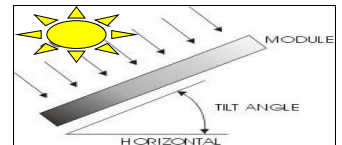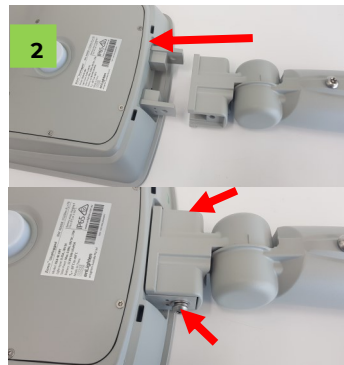
| | IDEAL PANEL ANGLE | | | | | |
| SYDNEY | MELBOURNE | PERTH | BRISBANE | HOBART | ADELAIDE | DARWIN |
|---|---|---|---|---|---|---|
| 30° | 35° | 30° | 25° | 40° | 35° | 15° |

## Mounting using the Slip Fitter (included in box)

**1** Open the box and with fitting on its back, turn fitting on using ON/OFF button on the remote control. The fitting should turn on. If it does not recharge the fitting (see last page).
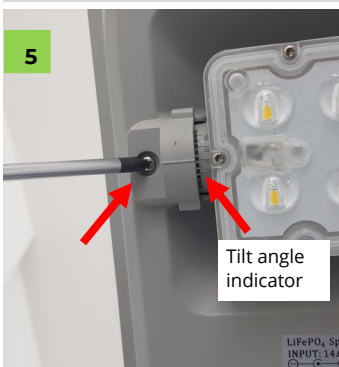
**2** Mount slip fitter to the back of the fitting and tighten the bolts

**3** Slip the slip fitter onto the pole. Fits 45-60mm O/D round poles. Ensure solar panel faces North. Tighten bolts to secure to pole. Do not overtighten.
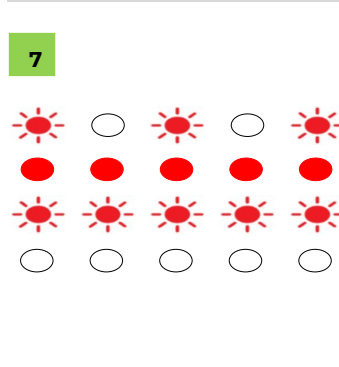
**4** Loosen bolt, adjust tilt angle then tighten. See above for recommended tilt angles.

**5** Loosen screw on LED panel and adjust LED panel angle as desired. Tighten screw to secure. Markings indicate the tilt angle.

Tilt angle indicator

**6** Program fitting with remote control (see page 2 & 3). It may be advantageous to program before mounting the fitting at height.
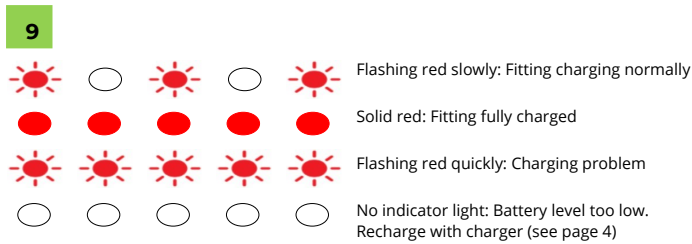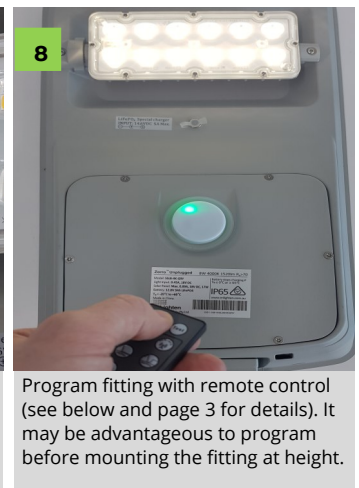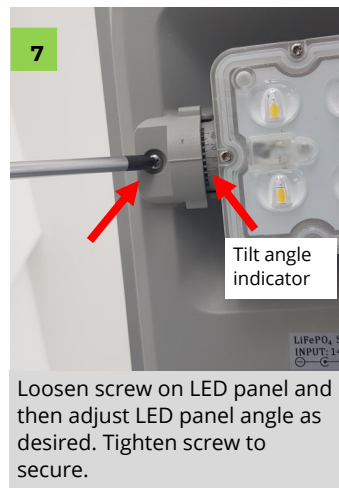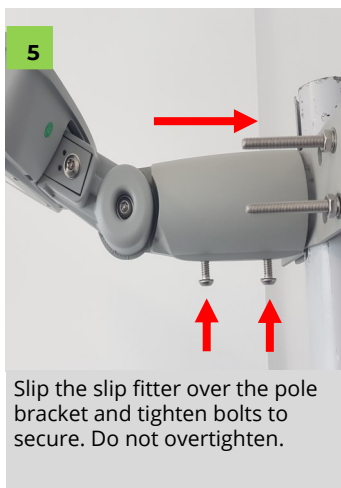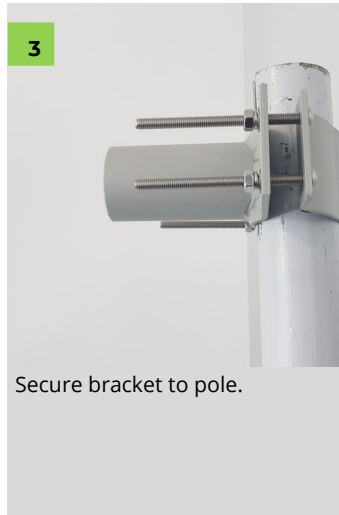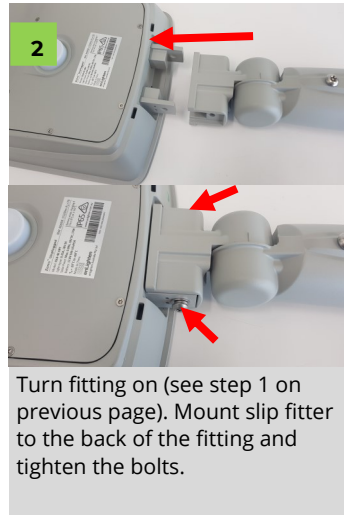
**7**

Flashing red slowly: Fitting charging normally

Solid red: Fitting fully charged

Flashing red quickly: Charging problem

No indicator light: Battery level too low. Recharge with charger (see page 4)

Check LED indicator on fitting during daytime.

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# Mounting using the Trunnion Mount (Optional Accessory)

**1**

Two brackets available:
*SSL-TRSQ** fits round poles 60-100mm OD or square poles 50-100mm
*SSL-TRRD** fits round poles 50-120mm OD

**2**

Turn fitting on (see step 1 on previous page). Mount slip fitter to the back of the fitting and tighten the bolts.

**3**

Secure bracket to pole.

**4**

Alternatively, the spigot part of the SSL-TRRD or SSL-TRSQ can be screwed directly onto a square pole.

**5**

Slip the slip fitter over the pole bracket and tighten bolts to secure. Do not overtighten.

**6**

Loosen bolt, adjust tilt angle then tighten. See first page for recommended tilt angles.

**7**

Tilt angle indicator

Loosen screw on LED panel and then adjust LED panel angle as desired. Tighten screw to secure.

**8**

Program fitting with remote control (see below and page 3 for details). It may be advantageous to program before mounting the fitting at height.

**9**

Flashing red slowly: Fitting charging normally

Solid red: Fitting fully charged

Flashing red quickly: Charging problem

No indicator light: Battery level too low. Recharge with charger (see page 4)

Check LED indicator on fitting during daytime.

SOLAR PANELS MUST FACE NORTH*

* The battery warranty may be void if the solar panel is not facing North East, North or North West.

| Settings Guide | | | |
|---|---|---|---|
| Setting | Application | Winter* | Spring, Summer, Autumn |
| 20 – 80% sensor | Pathways, car parks, campgrounds | OK | OK |
| 40 – 100% sensor | Pathways, car parks, campgrounds | Operates all night when sensor is triggered less than 70 times per night | OK |
| Time intelligent mode | Area that has most activity during the first few hours of the evening (e.g. office car park, BBQ area, pathways) | OK | OK |
| Time intelligent mode (morning) | Area that has most activity during the first few hours of the evening and again early morning, e.g. pathways, office car parks | Light might not operate in the early hours of the morning | OK |
| Constant 100% | Where constant light is required | Only with 4hr timer | 4hr/8hr timer recommended |
| Constant 70% | | 4hr/8hr timer recommended | OK |
| Constant 40% | | OK | OK |

* Applies for installations where the solar panel faces North. East or West facing installations can reduce battery charging by up to 30% in Winter

# Remote Control

The remote control can be used to set the settings on the Zorro Unplugged luminaire.

There are 3 main modes available:

- Motion sensor mode
- Time intelligent mode
- Constant light level

Switch between ON and OFF

Tests light operation. Light will go through charging and discharging cycle for approx. 15s. Red and green charge indicators will be illuminated. **Do not press any other button until test sequence has finished.**

Motion controlled modes, see **section 1** below

Constant brightness modes, see **section 3** below

**4hr and 8hr timer**. The light will be in the modes selected above for 4hrs or 8hrs after sunset, then switch off.

Time intelligent modes, see **section 2** below

**To apply a setting:**

Point the remote control at the light and press a button. The light will flash to indicate the setting has been received successfully.

Strong sunlight might interfere with programming of the lights with the remote. If the fitting does not receive the setting successfully on a sunny day, try again in the late afternoon or early morning.

Cancel 4hr and 8hr timer. The light will resume operation previously selected

**Factory setting**: Motion sensor mode with 20% standby and 80% full light

## Timer Function 4hr/8hr

The 4hr/8hr timer function can be used to switch off the fitting automatically 4hr/8hr after sunset. This can be used if light is only required for a certain time after sunset. To activate, press buttons as shown above.

## 1. Integrated Microwave Motion Sensor Modes

Between dusk and dawn the light will switch on at standby level. When movement is detected, the light will switch to full light mode. Once movement ceases, the light will dim to standby level after 2 minutes . Ideal for pedestrian walkways and car parks. Maximum installation height is 6m for correct motion sensor operation.

Two modes are available: 40% standby to 100% brightness **OR** 20% standby to 80% brightness. **This is the preferred setting as it enables battery storage to be extended across several days to allow for low charging (cloudy) days.**

LIGHTING LEVELS ON REMOTE

In this mode fitting will stay on 100% brightness for 2min after last movement is detected before dimming to the standby level of 40%.

In this mode fitting will stay on 80% brightness for 2min after last movement is detected before dimming to the standby level of 20%.
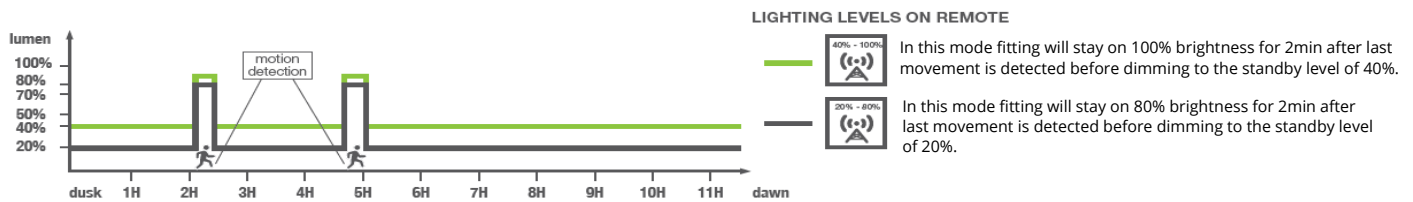
## 2. Pre-programmed time intelligent modes

The time intelligent mode will switch the light on at 70% at dusk for the first 30min. The next 3 hrs the light will operate at 100%, then dim down to 70% for the next 1hr, then to 50% for a further 1 hour and then to 20% for the remainder of the night until dawn. It can be set to automatically switch to 70% before dawn to provide light if the area has activity before sunrise.

for activated areas in the morning

for non activated areas in the morning
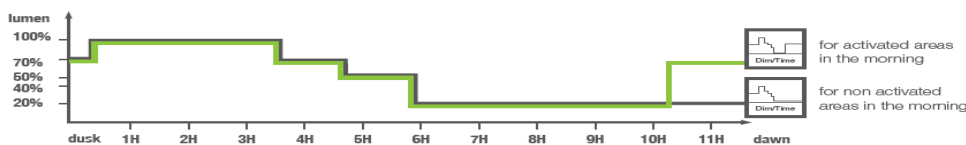
## 3. Constant brightness modes*

The light can be set to constant brightness during the night: 100%, 70%, 40%.
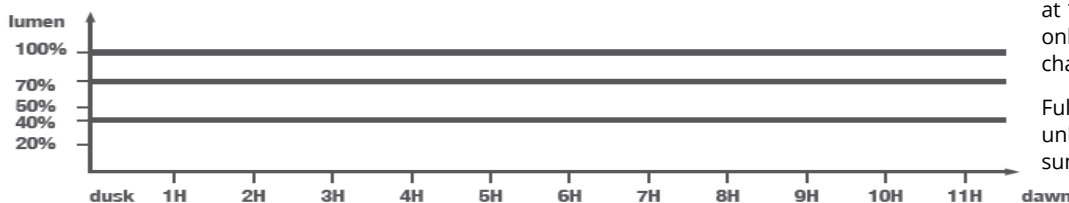
*Maintaining constant light levels at 100% throughout the night is only possible if the battery is fully charged.

Full charging of the battery is unlikely on cloudy days or non summer periods.

## Indicators on the light fitting

The coloured indicator on the fitting shows the status of the light.

### During the day



Flashing red slowly: Fitting charging normally

Solid red: Fitting fully charged

Flashing red quickly: Charging problem


LED indicator

### During the night

Solid green: Battery charge level OK

Flashing green: Battery charge level below 10%, fitting will turn off soon.

## Charging the fitting manually with the charger

Please note: This is only required if the fitting is stored for longer periods or if the battery is discharged to a very low level.

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Turn the fitting on with the ON/OFF button on the remote. If the fitting does not turn on with the remote control, follow step 2 first and wait a few minutes before turning on with the remote. | Connect the charger (part no. **SSL-Charger**) to the charging point on the light then plug charger into mains power. The red indicator LED will start to flash slowly. Once fully charged it will be solid red. | Once fully charged, unplug charger from mains power and then unplug from the fitting. Ensure to seal the charging port with the rubber grommet. | If the fitting is stored after charging, turn fitting off with the ON/OFF button on the remote control. |

## Technical Data

| Model | Lumen output (lm) | Dimensions (mm) | Weight (kg) |
|---|---|---|---|
| SSL08-4K-TIII-GRY | 1530 | 518x290x81 | 5.3 |
| SSL20-4K-TIII-GRY | 3800 | 680x420x94 | 9.8 |
| SSL30-4K-TIII-GRY | 5700 | 918x420x94 | 13.5 |