

**USER MANUAL**

THANK YOU FOR YOUR PURCHASE

PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION / MAINTENANCE

**SPECIFICATIONS**

**LED:** Epistar 2W, SMD 2835 LED Chips (120° Beam Angle)  
**Colour Temperature:** CCT Switch - 3000K (Warm) / 6000K (Daylight)  
**Lumen Output:** 220 - 240 lm  
**LED Life Expectancy:** up to 50,000 hours  
**Sensor:** Light / Charge Sensor  
**Lighting Function:** 1hr 100% + 2hrs 80% + 2hrs 50% + 9hrs 30%  
**Illumination area:** Up to 3m (diam.)  
**IP Rating:** IP65  
**IK Rating:** IK10 – MAIN BODY (polycarbonate lens IK07, solar panel IK06)  
**Battery Type:** Lithium - LiFePO4 3.2v/12Ah (replaceable)  
**Battery Charge Time:** 6-8 hrs full sunshine (approx.)  
**Max Illumination Time at Full Charge:** Up to 23hrs  
**Solar Panel:** 5v / 3.5W Monocrystalline Solar Panel – Grade A  
**Materials:** 6063 Die Cast Aluminium & High Impact Polycarbonate, SS Screws  
**New Weight:** 5.25KG (approx.)  
**Mounting:** Internal Surface Mount  
**Working Temperature:** -25°C ~ 55°C  
**Included:** Tube & Internal Mounting Base (assembled), Head (not assembled), 8x M5 Pin Security Torx Screws and 1x T25 Pin Security Torx Key, Expanding anchor bolts  
**Optional Accessories:** Root Mount J-Bolt Kit, Pin-hex Security Screw Kit



**SAFETY WARNINGS**



Made in China to Lumena Specification



- If a fitting is found to be damaged, cease use immediately.
- The unit may get warm whilst on for a period of time.
- Always take care when installing your solar light.
- Fitting must be installed according to instructions or guarantee may be void.
- This Solar Light will not charge correctly if the panel is behind glass or artificial light is used.
- Ensure the head is screwed in place at all times, other than when turning the unit on or adjusting LED.
- Due to temperature difference in and outside the fitting, condensation may be present internally but will not affect use.
- Do not look directly at the light source
- **BATTERY WARNING:** Damaged batteries can leak, swell, catch fire or explode. Always handle with care and recycle correctly. If batteries have signs of damage, cease use immediately. If batteries are swallowed this can result in chemical burns, damage to soft tissue or death. Seek medical attention immediately. **KEEP OUT OF REACH OF CHILDREN**
- Do not tamper with wiring or batteries as this may result in a short circuit or shock.

**CLEANING & MAINTENANCE:**

Occasional cleaning and care is recommended for this product. Wipe with a soft, slightly damp cloth to remove any surface dirt. To maintain efficiency, specifically clean the solar panel, polycarbonate lens and PIR sensor (if applicable) on a regular basis. Also, keep the solar panel free of debris and snow to prevent reduced battery life or malfunction. Do not use abrasive cleaners or a lot of water as this could damage the fitting. Please refer to our website for more information on the best way to clean different materials.

**GUARANTEE, RETURNS & DISPOSAL:**

If purchased from a 3<sup>rd</sup> party, please contact your supplier. If purchased direct, contact us by phone or email:  
 Lumena Lights Ltd, Centre 33 Long March, Daventry, NN11 4NR Tel: +44 1327 871161 Email: [sales@lumenalights.com](mailto:sales@lumenalights.com)  
 Our full returns policy is available on our website.



**DISPOSAL / RECYCLING:** Waste Electrical Products & Batteries should not be disposed of with household waste. Please check with your local authority or contact us for more information. Please recycle packaging.

Producer Registration Numbers: WEE/KC3440XY / BPRN0843

## INSTALLATION:

The Guarda is designed to be mounted on a low wall, patio, wood or set in concrete (J-Bolts sold separately) via the internal surface mount. **Recommended spacing is 3m apart for constant path lighting. Alternative spacing / staggering will affect intensity of light.**

**Location** – It is important that the installation location is carefully considered, avoiding shady areas. Ensure there are no other lights which could interfere with the light, imitating daylight and forcing the light off.

### TEST BEFORE INSTALLATION

#### To surface mount:

1. Remove the base from the tube using the T25 pin security torx key provided.
2. Use the base to mark the 4 x mounting holes on the mounting surface in the correct position.
3. Remove the mounting base and drill out the 4 holes marked at the relevant size for the type of screws / bolts to be used (varies based on mounting surface) – Anchor bolts recommended.
4. Replace the bollard body / tube, lining up the 4 x holes at the base.
5. Secure in place with screws / bolts.
6. Replace the 4x M5 Pin Security Torx Screws removed in point one to secure in place.

**NOTE: Max. Screw diameter = 12MM (M12) – recommended 70-100mm length. DO NOT OVERTIGHTEN.**

**IMPORTANT:** the drainage hole located in the lower tube must be uncovered at all times, with no obstructions.

For root mounting, use J-Bolts attached to the mounting base and set in concrete (sold separately).

#### SETTINGS:

The Guarda has a pre-set time controlled setting which cannot be changed. At dusk, the bollard will illuminate at full brightness, and then follow a gradual dimming sequence until it reaches 30% brightness after 5 hours. From then on it will remain at 30% until dawn. This sequence is to ensure maximum charge is retained.

#### CCT Colour Switch – Power Switch

1. Before installation, remove the head from the tube and locate the **RED Power Button**. Press once to turn on the power.
2. Select preferred colour temperature by flicking the **CCT Switch** left (daylight white) or right (warm white), as displayed in **Fig. 1**.
3. Test by covering the solar panel fully & await illumination (within 5 seconds)
4. Secure the head using the 4x screws provided, loosely fastening initially for correct alignment and rotating screw tightening until fully secured.

#### IMPORTANT – SOLAR BOLLARD MUST BE TURNED ON AT ALL TIMES AFTER INSTALLATION

If the bollard is left in the off position outside, you may be prompted to turn the fitting on by strobing. Solar bollard will only charge when ON.

**NOTE:** Both the power button and CCT switch must be switched on/selected for the light to work and charge as expected. There will be a 2-5 second delay between turning the solar light on, and the bollard illuminating. In daylight, the light will turn back off within a few seconds, in darkness it will remain on and follow the time controlled cycle, until the end of the 12 hour cycle, first light or battery depleted (whichever comes first).

#### STORAGE & CHARGE CYCLES:

When storing the bollard, be sure to turn the bollard to the off position (see above). Check it is off by covering and uncovering the solar panel to see if the light illuminates. It is recommended to drain the battery prior to storage. Once turned off, the on/off button will release fully forward. Stored solar bollards must be put through a full charge cycle at least every 6 months to prevent damage to battery.

#### 6 MONTH CHARGE CYCLE PROCESS:

- 1) Turn on, cover panel and leave illuminated until battery fully depleted (test by uncovering and recovering)
- 2) Once depleted, remove the panel cover and leave outside to charge for a full day.
- 3) Leave on after charging and recharge the following day. It can now be turned off and stored for another 6 months.

#### TROUBLESHOOTING:

If the luminaire is not illuminating, check the location for shade and obstructions, and check for signs of damage / water ingress. If weather has been poor, charge during the day, turn off overnight, and turn on to recharge for a second day (supercharge). If it illuminates as expected, it is likely the result of particularly poor weather conditions. If light is dim, try the supercharge – if this does not fix the issue, it may be down to a worn out / weak battery. When battery is at a very low capacity, the light output will be dimmer than usual. If in doubt, or you have any issues or queries, please contact the retailer / manufacturer.

Full product range & more information: [www.lumenalights.com](http://www.lumenalights.com)

