

GUARDA In-Ground Root Mount Solar Bollard Light

GUA800-RM

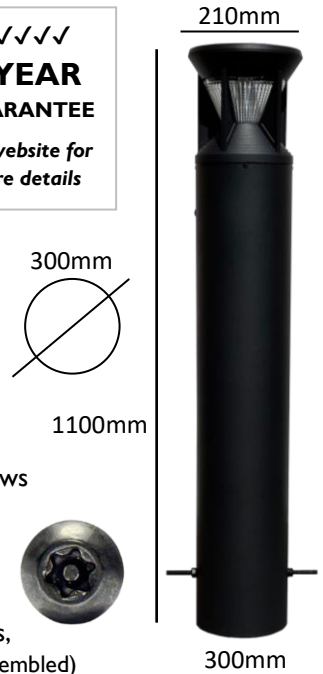
USER MANUAL

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)
Height above ground: 800mm (total 1100mm)
Battery Type: Lithium - LiFePO4 3.2V/12Ah (replaceable)
Battery Charge Time: 6-8 hrs full sunshine (approx.) (AMI.5 1000W / m² 25°C)
Max Illumination Time at Full Charge: Up to 23hrs
Solar Panel: 5V / 3.5W Monocrystalline Solar Panel – Grade A
Materials: 6063 Die Cast Aluminium (Electrophoresis) & High Impact Polycarbonate, SS Screws
Finish: Powder Coated RAL 9005 Fine Texture (Black)
Net Weight: 5.8KG (approx.)
Mounting: In-ground Root Mount System (anchor bar)
Working Temperature: -25°C ~ 55°C
Included: Tube & Head (not assembled), 300*10mm Anchor Bar c/w 2x Flat Washers & Nuts, 4x M5 Pin Security Torx Screws and 1x T25 Pin Security Torx Key, 4x M5 Cross-head (solar panel - assembled)
UK REGISTERED DESIGN: 6450826

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**5 YEAR
 GUARANTEE**
 see website for
 more details



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 and polycarbonate lens 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 3rd 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
 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

Full product range & more information: www.lumenalights.com

2026-03-26-v2

INSTALLATION:

The Guarda is designed to be set directly into wet concrete via the integrated root mount system.

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

1. Remove the head from box 1, turn on the flick switch (left for daylight / right for warm), hold to the light, then cover the panel to test. The Guarda will usually have a small amount of charge, but will require a full charge cycle upon installation. The unit must be turned on in order to charge.
2. An optional set of pin-hex security screws (and socket wrench) have been provided for use if installation is in an area where the unit could be tampered with. If you choose to use these, swap the 4x screws of the solar panel, retaining the other 4 for attaching the head to the tube.
3. Remove the tube and anchor bar from box 2. Insert the 10mm anchor bar through the two pre-drilled holes at the base of the bollard, and secure in place with the flat washer and nut provided on either side of the tube. Adjust as necessary to ensure the anchor bar is central to the tube.
4. Dig a hole in the desired location, 300mm deep by 350mm wide.
5. Check the bollard tube fits in the hole and the drainage hole will remain approx. 30mm above ground.
6. Once satisfied with placement, fill with wet concrete and set the bollard in position, ensuring it is level.
7. Temporarily remove the rubber bung from the tube (switch access point).
8. Remove the 4 head mounting screws and attach the head to the tube with the desired screws (Phillips or pin-hex), ensuring the colour switch is facing the direction of the colour switch access point. **TIP:** fasten each screw a little at a time and rotate around the head to ensure correct alignment.
9. Cover the panel to retest the solar bollard. Adjust colour switch if necessary using a blunt tool such as a wide flat head screw driver.
10. Replace the rubber bung to the colour switch access point.



IMPORTANT: Drainage hole located approximately 330mm from base of bollard, allowing 30mm clearance above ground. This must be uncovered and above ground at all times.

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 (Warm White) or right (Daylight 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). If battery charge is extremely low, the unit will dim to low brightness to retain charge for as long as possible.

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. 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. If in doubt, or you have any issues or queries, please contact the retailer / manufacturer.

Full product range & more information: www.lumenalights.com

