

Compliant with Obstruction Light Type L-810 as per FAA Advisory Circular AC 150/5345-43G 09/26/12 (Red).

Intertek compliance test reports and global simulation maps available upon request.

**Intuitive Setup & Programming**
- Top-mounted LED display with simple “tap to activate” functionality
- Easily check light settings without external controller
- Programmable with optional IR remote

**Scalable, Cost-effective Design**
- Customizable for best value-for-performance
- Multiple battery pack options

**Intelligent Energy Management**
- Best-in-class, high-efficiency solar panels
- Maximum Power Point Tracking (MPPT)
- Patented Energy Management System (EMS)
- Ensures maximum battery life and light performance in even the harshest of environments

**Durable, Low Maintenance**
- Compact, stand-alone, maintenance-free unit
- Integrated solar panels, battery, electronics and LED light source
- Replaceable battery extends life beyond five years

**Trusted**
- Thousands of installations worldwide
- Carmanah solar LED lights operate year-round at permanent and temporary installations
**OL800 SOLAR OBSTRUCTION LIGHT**

**SPECIFICATIONS**

- High powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product
- FAA: Meets Obstruction Light Type L-810 as per FAA Advisory Circular AC 150/5345-43G 08/26/12 (Red).
- TFMS (Total Faraday Magnetic Shield) for high levels of EMF protection
- Meets requirements for CASA 10 cd (Part 139, Vol.2)
- ICAO, SAE25050 (FAA) and FAA EB 67 compliant chromaticity: Red, Green, White and Yellow
- Steady-on and 250+ flash patterns

**Energy Collection**

- Best-in-class high-efficiency solar cells with blocking diodes
- Maximum power point tracking with temperature compensation (MPPT) for optimal energy collection

**Energy Storage**

- EnerSys CYCLON pure-lead VRLA AGM battery -85 to 185 ºF (-55 to 90 ºC) deep cycle capability
- On-board battery status, Optional port for battery charging
- Designed for 5 year battery life; Replaceable and recyclable

**Energy Management System (EMS)**

- Intelligent, microprocessor
- On-board diagnostics and datalogger

**Automatic Light Control (ALC)**

- Adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation

**Programmable Option**

- Programmable with optional infrared programmer
- Integrated 4-character LED display

**GPS Synchronization**

- Optional GPS enables two or more lights to flash in unison
- Premium grade UV resistant, polycarbonate lens/heat sink
- Polycarbonate/polysiloxane co-polymer base
- Environmentally friendly, durable powder coated aluminum chassis (applied by trivalent chromate process)
- Thermoplastic gaskets
- Waterproof, vented battery compartment
- Top colour indicator matches LED colour
- Integrated handle
- Bird deterrent included

**Temperature**

- -22 to 122 ºF (-30 to 50 ºC) optimal
- -40 to 176 ºF (-40 to 80 ºC) maximum

**Mounting**

- 3 or 4, 7.87" (200 mm) bolt circle mounting pattern

**Wind Loading**

- 140 knots (72 m/s)

**Ice Loading**

- 0.03 psi (22 kg/m²)

**Shock & Vibration**

- MIL-STD-202G (for Shock and Vibration)
- MIL-STD-202G immersion & damp heat cycling

**Ingress**

- EN 60529 IP 68 immersion
- MIL-STD-810G rain & salt fog
- Electrostatic Discharge (ESD)

- FAA-STD-0193, EN61000-4-2

**ORDER OPTIONS**

- **MODEL**: OL800
- **OUTPUT**: RED, GREEN, WHITE
- **SOLAR ENGINE**: COMPACT, STANDAD, LARGE
- **CONTROL**: NONE, GPS SYNC
- **CHARGE PORT**: NONE, CHARGE PORT
- **CHASSIS**: YELLOW

**DIMENSIONS AND WEIGHTS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT</th>
<th>SOLAR ENGINE</th>
<th>CONTROL</th>
<th>CHARGE PORT</th>
<th>CHASSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OL800</td>
<td>RED</td>
<td>COMPACT</td>
<td>NONE</td>
<td>NONE</td>
<td>YELLOW</td>
</tr>
<tr>
<td></td>
<td>GREEN</td>
<td>STANDARD</td>
<td>GPS SYNC</td>
<td>CHARGE PORT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WHITE</td>
<td>LARGE</td>
<td></td>
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</tbody>
</table>

**STANDARD**

- **Weight**: 14 lb (6.4 kg)
- **Battery**: E-cells (100.8 Wh)

**COMPACT**

- **Weight**: 9.9 lb (4.5 kg)
- **Battery**: X-cells (83 Wh)

**LARGE**

- **Weight**: 22.4 lb (10.2 kg)
- **Battery**: BC-cells (210 Wh)

**PEAK INTENSITY**

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>INTENSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>209 cd</td>
</tr>
<tr>
<td>Green</td>
<td>287 cd</td>
</tr>
<tr>
<td>White</td>
<td>374 cd</td>
</tr>
<tr>
<td>Yellow</td>
<td>319 cd</td>
</tr>
</tbody>
</table>

**Vertical Divergence (deg)**

- FAA-STD-0193, EN61000-4-2
- MIL-STD-810G immersion & damp heat cycling
- MIL-STD-810G rain & salt fog
- Electrostatic Discharge (ESD)

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