



# OL800

SOLAR OBSTRUCTION LIGHT

The new benchmark for low-intensity solar LED obstruction lighting in an easy-to-install, low-maintenance package. Available in three engine sizes and includes new user-friendly features.

Meets ICAO requirements for Low-Intensity Obstacle Lights Type A and Type B, according to ICAO Annex 14, Volume 1, 5th Edition, July 2009 and 6th Edition, July 2013 (Red).

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



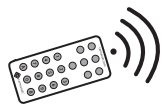
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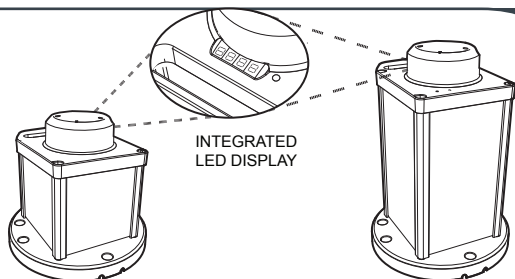
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OPTIONAL INFRARED PROGRAMMER



INTEGRATED LED DISPLAY

# OL800

## SOLAR OBSTRUCTION LIGHT

### SPECIFICATIONS

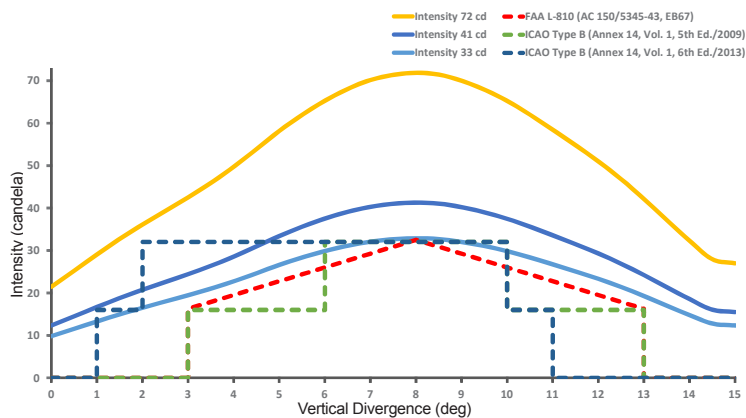
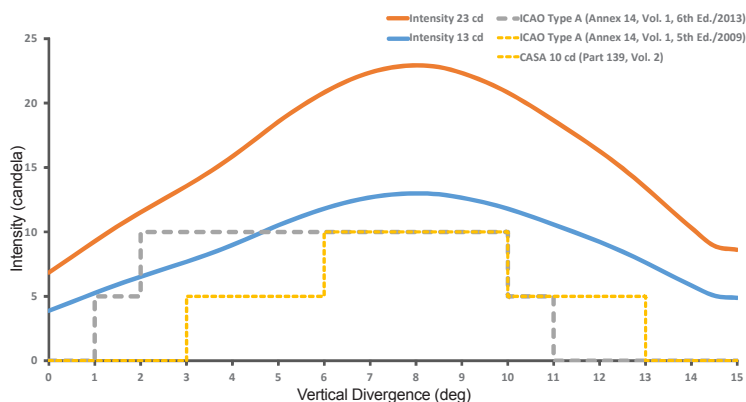
Optical	High powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product
	FAA: Meets Obstruction Light Type L-810 as per FAA Advisory Circular AC 150/5345-43G 09/26/12 (Red).
	Complies with ICAO Low-Intensity Obstacle Light Type A & B - Annex 14, 5th Edition, July 2009 (Red) and 6th Edition, July 2013 (Red).
	Meets requirements for CASA 10 cd (Part 139, Vol.2)
	Meets requirements for ICAO, SAE25050 (FAA) and FAA EB 67 compliant chromaticity: Red, Green, White and Yellow
Energy Collection	Best-in-class high-efficiency solar cells with blocking diodes
	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection
Energy Storage	EnerSys CYCLON pure-lead VRLA AGM battery -85 to 176°F (-65 to 80°C) manufacturers operating range
	On-board battery status; Optional port for battery charging
Energy Management System (EMS)	Designed for 5 year battery life; Replaceable and recyclable
	Intelligent, microprocessor
Automatic Light Control (ALC)	On-board diagnostics and datalogger
	Adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation
Programming	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/head
Construction	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
	-22 to 122 °F (-30 to 50 °C) optimal
	-40 to 176 °F (-40 to 80 °C) maximum
	3 or 4, 787" (200 mm) bolt circle mounting pattern
140 knots (72 m/s)	
0.03 psi (22 kg/m <sup>2</sup> )	
MIL-STD-202G (for Shock and Vibration)	
Ingress	EN 60529 IP 68 immersion
	MIL-STD-202G immersion & damp heat cycling MIL-STD-810G rain & salt fog
Electrostatic Discharge (ESD)	FAA-STD-0193, EN61000-4-2

### DIMENSIONS AND WEIGHTS

STANDARD		COMPACT	
Weight	14 lb (6.4 kg)	Weight	9.9 lb (4.5 kg)
Battery	E-cells (100 Wh)	Battery	X-cells (63 Wh)
<b>LARGE</b>			
Weight	22.4 lb (10.2 kg)		
Battery	BC-cells (210 Wh)		

### PEAK INTENSITY

COLOUR	INTENSITY
Red	209 cd
Green	287 cd
White	374 cd
Yellow	319 cd



### ORDER OPTIONS

MODEL	OUTPUT	SOLAR ENGINE	CONTROL	CHARGE PORT	CHASSIS
OL800	RED GREEN WHITE YELLOW	COMPACT STANDARD LARGE	NONE GPS SYNC	NONE CHARGE PORT	YELLOW



The management system governing the manufacture of this product is ISO 9001:2008 certified.

Specifications subject to local environmental conditions. Specifications may be subject to change.

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US and International patents apply. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.

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