FLASH TECHNOLOGY

OL800 Temporary Solar Obstruction Light

The OL800 is a temporary FAA L-810 solar LED obstruction lighting system for temporary installations like MET mast towers and during wind turbine construction. The compact, integrated design is stand-alone, maintenance-free and includes a high-efficiency LED light source, solar panels and battery.

Standard Features

- Patented Energy Management System (EMS) for increased autonomy
- Top-mounted LED user interface with simple tap-to-activate functionality
- Long-life Luxeon Rebel LEDs
- Solar panels on all 4 sides simplify installation and reduce battery charge time
- Replaceable and recyclable batteries to extend product life
- Ships pre-programmed for FAA L-810 applications unless otherwise specified

System Options and Accessories

- Infrared LEDs for compliance with FAA AC 150/5345-43J
- Standard and extended mounting brackets
- Infrared programmer for remote control
- Choice of battery pack sizes to meet desired autonomy

Regulatory Compliance

- FAA L-864 per FAA AC 150/5345-43G
- ICAO Medium Intensity type B
- CAR 621 CL-810
- Australian CASA low intensity obstacle light

Warranty

- 3-year warranty
- 1-year warranty on battery

OL800 Compact

- Autonomy: 7+ days in mid to high sun
- Battery pack: 63 Wh, X-cells
- Weight: 9.9 lbs (4.5 kg)

OL800 Standard

- Autonomy: 7-10 days
- Battery pack: 100 Wh, E-cells
- Weight: 14 lbs (6.4 kg)

OL800 Large

- Autonomy: 10-14 days, tough solar locations
- Battery pack: 210 Wh, BC-cells
- Weight: 22.4 lbs (10.2 kg)

Per section 13.8 of FAA AC 70/7460-1L: **a steady-burning red L-810 is required during construction if the permanent flashing L-864 is not in place**. If power is not available, structures should be lit with a self-contained, solar-powered, steady burning red LED light meeting the photometric requirements of an FAA L-810.

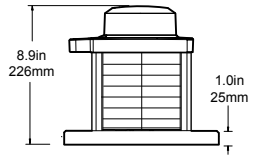
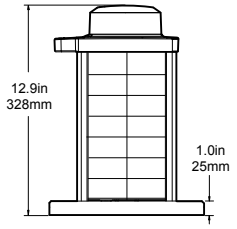
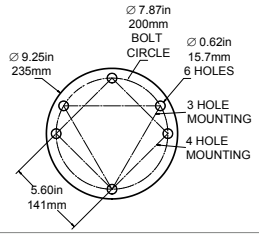
Per FAA Engineering Brief 76, **temporary solar lighting systems must have 7 days of autonomy at 32.5 candela**. Autonomy refers to how long the light will last if all solar charging is removed. A light with 7 days of autonomy should shine for 7 consecutive nights if there is no sunlight or charging during those days.

OL800

SPECIFICATIONS

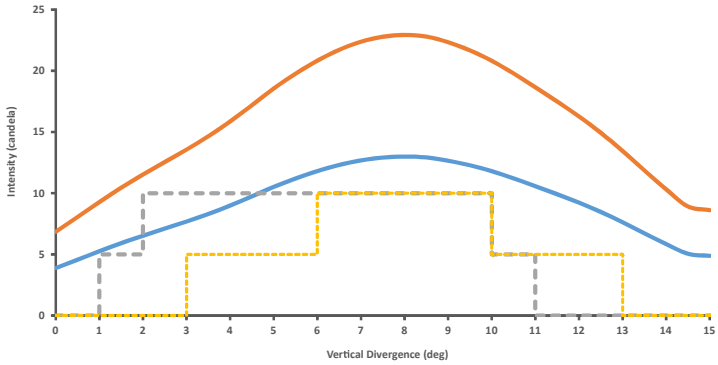
Optical	High-powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product
	FAA L-810 per FAA AC 150/5345-43G (red)
	ICAO Annex 14 5th and 6th editions low intensity types A & B (red)
	CASA 10 cd (Part 139, Vol. 2)
	ICAO, FAA SAE25050 and FAA EB 67 compliant chromaticity: red, green, white and yellow
	Steady-on and 250+ flash patterns
Solar Panel	Best-in-class high-efficiency solar cells with blocking diodes
	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection
Battery	EnerSys CYCLON pure-lead VRLA AGM battery -85 to 176ºF (-65 to 80ºC) manufacturers operating range
	Onboard battery status
	Optional port for battery charging
	Designed for 5-year battery life; Replaceable and recyclable
Energy Management System (EMS)	Intelligent, microprocessor
Automatic Light Control (ALC)	When enabled, automatically adjusts to lower levels of sunlight to ensure continuous operation
Programming	Programmable with optional IR programmer
	Integrated 4-character LED display
GPS Synchronization	Optional GPS enables 2 or more lights to flash in unison
Construction	Premium-grade, UV-resistant polycarbonate lens/head
	Polycarbonate/polysiloxane co-polymer base
	Environmentally friendly, durable powder-coated aluminum chassis (applied by trivalent chromate process)
	Thermoplastic gaskets
	Waterproof, vented battery compartment
	Top color indicator matches LED color
	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	161.1 mph (72 m/s)
Ice Loading	0.03 psi (22 kg/m2)
Shock & Vibration	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

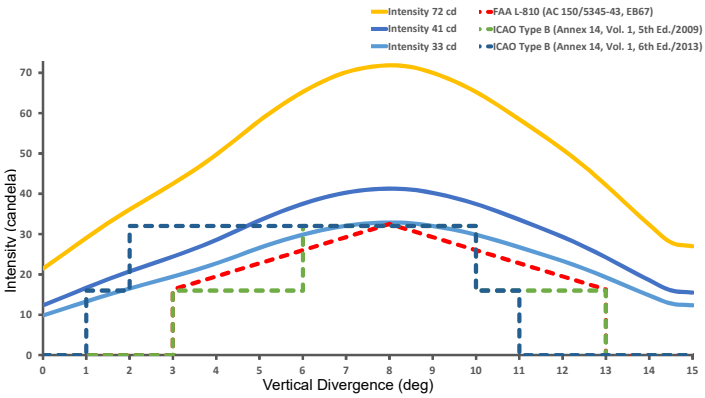
DIMENSIONS

Compact	
Standard and Large	
Bolt Pattern	

ORDER OPTIONS & PEAK INTENSITY

Model	Output	Solar Engine	Infrared	Control	Charge Port	Chassis
OL800	Red 209 cd*	Compact Standard Large	None Infrared	None GPS Sync	None Charge Port	Yellow
	Green 287 cd					
	White 374 cd					
	Yellow 319 cd					





**Infrared only available in red. Intensity capped at 70 cd.*

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