



# L-810 LED Steady-Burning Red Obstruction Light

## Compliance and Applications

- Not FAA Approved under AC 150/5345-43J
- IP67 Certified

Compliant to:

- ICAO Annex 14, Low Intensity Obstacle Light, Type B
- Transport Canada CAR 621.19
- DGAC of Mexico
- MIL-C-7989

Our L810LED omni-directional, red, steady-burning obstruction light is designed for marking tall structures such as buildings, towers, masts, cranes, meteorological towers, chimneys and other hazards to aircraft. This energy-saving LED light is a direct replacement for incandescent fixtures, providing years of reliable and maintenance-free operation. Available in single, double, and retrofit configurations; optional solar drive package.

## Why Our L810LED is Better

- Direct replacement for existing incandescent light
- Lasts up to 10 times longer than an incandescent light
- Uses 96% less power than an incandescent light
- No regular maintenance
- Available in single and dual configurations with bottom or side conduit outlets
- Can be operated in steady-burning or flashing mode (controller not supplied)
- Photocell option for automatic activation at night
- Self-contained wiring compartment eliminates additional boxes
- Weather/corrosion resistant
- IP67 Ingress Protection rating for dust and water
- Lens made from durable, UV-stabilized LEXAN polycarbonate
- Resistant to shock and vibration
- Operates from -67°F to 131°F (-55°C to +55°C)
- 5 year warranty

## Specifications

- Power consumption: 2.4W (DC); 3W (AC)
- Power source: 120VAC, 208-277VAC, 12-48VDC
- Intensity: 32.5 candelas
- Light Output Wavelength: Red 615 nm, Infrared (IR) 860 nm
- Dimensions: 5.65" dia. x 7.75" height (single)
- Weight: 3.2 lb. (single); 7 lb. (double)
- Estimated lifetime: 70,000+ hours
- IP Rating: IP67
- Wind loading: Effective Projected Area of the L-810 with single mounting base is 23.125 square-inches



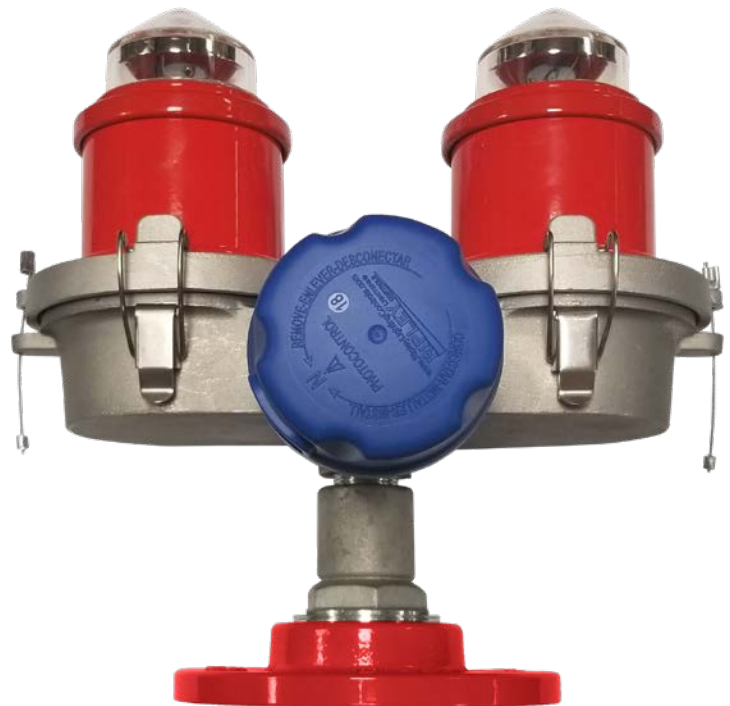
*Optional Low Surface Mount*



*Shown with Riser, Frangible Coupling and Floor Flange*



*Single L-810 LED Steady-Burning Red Obstruction Light*



*Double L-810 LED Obstruction Light with Optional Photocell*

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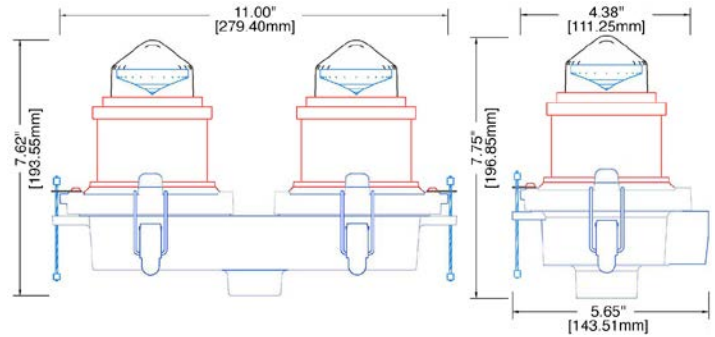
[www.flightlight.com](http://www.flightlight.com)  
[sales@flightlight.com](mailto:sales@flightlight.com)

Flight Light Inc., 2708 47th Ave.  
Sacramento, CA, 95822, USA



Spare Parts

Part Number	Description
12-SB3	Single Bottom Casting 3/4" Hub
12-SB4	Single Bottom Casting 1" Hub
12-DB3	Double Bottom Casting 3/4" Hub
12-DB4	Double Bottom Casting 1" Hub
68-ME75-100	Connector: 3/4" Male to 1" Female
FL-810LED12VDC	12VDC L810LED V1 Assy. (Engine)
FL-810LED24-48VDC	24-48VDC L810LED V1 Assy. (Engine)
FL-810LED120VAC	120VAC L810LED V1 Assy. (Engine)
FL-810LED120VACMT	120VAC L810LED V1 Assy. (Engine) Marine Treated
FL-810LED208-277VAC	208-277VAC L810LED V1 Assy. (Engine)



Shipping Information:

Single: 3.2 lb. (1.45 kg); Carton: 10" x 10" x 10"  
 Double: 7 lb. (3.17 kg); Carton: 15" x 15" x 10"

L-810 LED Ordering Codes

Fixture	Color	Power	Fixture Style	Mounting	Options
FL-810L	R: Red	AC1: 120 VAC AC2: 208-240 VAC AC3: 277 VAC DC1: 12 VDC DC2: 24-48 VDC	S: Single D: Double	34B: 3/4" Hub - Bottom 10B: 1" Hub - Bottom 34S: 3/4" Hub - Side 10S: 1" Hub - Side FF: Floor Flange LSM: Low Surface Mount <sup>1</sup>	F: Flasher <sup>2</sup> P: Photocell T: Transfer Relay <sup>3</sup> MT: Marine Treated



Night Vision Compatible version available. See [flightlight.com](http://flightlight.com) for details.

<sup>1</sup> For single option only. <sup>2</sup> Will not work with 277 VAC. <sup>3</sup> For 120/240VAC applications only.

Obstruction Lighting Controls

Lighting controls are designed for use when multiple obstruction light fixtures are to be controlled with common electronics. The electronic control module comes in a cast iron device box with threaded hubs on both top and bottom. Replacement modules (controls without device box) are also available upon request.

Photocells

- **Model 81020:** 120/208/240/277VAC, 1000W photocell. FAA style photocells activate at 35 ft-cd and turn off at 58 ft-cd. A 45 second time delay prevents activation and de-activation from momentary light conditions. Does not come with device box, includes 1/2" threaded male fitting.
- **Model 81021:** 120/240VAC, 4800W photocell. Meets FAA/FCC requirements for obstruction lighting. Energized at 35 ft-cd and de-energized at 60 ft-cd. Time delay eliminates contact chatter. Contains dual 20A load contacts. Front plastic housing mounts to cast aluminum junction box (included).
- **Model 81022:** Hazardous Location Photocontrol Unit. Outdoor lighting control for exterior lighting in hazardous locations: explosion proof, dust-ignition proof, and weatherproof. Nominal Voltage 50/60 Hz: 120/208/240/277VAC. Voltage Range: 105-305. Housing: sand cast copper-free aluminum - epoxy powder coated.



Model 81020



Model 81021



Model 81022

Photocell Ordering Codes

Part Number	Description
FL-81020	Photocell only (120/208/240/277VAC, 1000W max)
FL-81021	Photocell with aluminum box (120VAC, 4800W max)
FL-81021-2	Photocell with aluminum box (240VAC, 4800W max)
FL-81022	Hazardous Location Photocontrol Unit (120/208/240/277VAC)