CM

FAA L-810 Low Intensity Obstruction Light















AV-OL Series Universal AC or Universal DC Single Light Fixture





LED Optic

Low power consumption

Combined visual & infrared visibility for pilots using night vision (optional)

Small form factor, minimal wind loading

Tough UV-stabilized LEXAN® polycarbonate lens & light base

Easily installs to ¾ inch pipe thread Monitoring options available

thread adaptor Features

Model shown with optional 1 inch pipe

Cost effective, energy efficient obstruction lighting solution

Available in universal DC: will accept between 12-48VDC

Available in universal AC: will accept between 110-240VAC

User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation

Alarm contact for remote monitoring

Light sensor for day/night operation

LED technology reduces maintenance time & costs

Easily retrofits with existing installations

Optional solar powered configurations

Optional combined visual/IR for pilots using NVG

Available with optional GSM monitoring

Available with optional RS422/485 communications port for monitoring & synchronization for VDC model

Applications

Low Intensity Obstruction Light for marking top of obstacles that do not exceed 150 feet (45 metres) in height

Certifications

FAA L-810 Low Intensity Obstruction Light, FAA AC 150/5345-43G

DGAC L-810, Low Intensity Obstruction Light

Compliance

FAA Engineering Brief No. 67D

This Avlite light fixture is a steady burning, low intensity LED obstruction light designed to comply with FAA L-810 requirements. The model can be used for marking obstacles which pose a threat to aircraft, such as telecommunication towers, wind turbines, buildings and other tall structures.

Avlite's LED obstruction lights offer an ultra bright, energy efficient and cost effective lighting solution. The light fixture is available in two configurations, universal DC (12-48VDC) or universal AC (110-240VAC).

The advanced light optic uses a single LED for minimal power consumption. The corrosion resistant, polycarbonate lens is specifically designed for use with LEDs to maximize light intensity and uniformity.

The light fixture incorporates internal diagnostic checking and an alarm contact for remote monitoring. The alarm relay is energized in normal operation and is released if there is an LED or power fault.

The unit is available with either a $\frac{3}{4}$ or $\frac{1}{4}$ inch thread type - making it simple to retrofit with existing installations.

The obstruction light also has an adjustable operation mode setting to allow the user to easily toggle between dusk-till-dawn and 24 hour operation

The obstruction light is also available with combined visual and infrared (IR) visibility for pilots using night vision.

Optional GSM Monitoring

Standard Model

The Avlite single obstruction light is available with GSM Cell-Phone Monitoring, enabling operators to remotely monitor the status of their installation. The system can also be configured to send out SMS text messages or e-mail alerts to designated operators should alarm conditions be triggered, such as low voltage or light failure.



Available colors

Peak Intensity (cd)†

Horizontal Output (degrees) Vertical Divergence (degrees)

Reflector Type Intensity Adjustments Operation Mode Adjustment

LED Life Expectancy (hours)

Electrical Characteristics

Operating Voltage Power (W)

Circuit Protection Temperature Range

Physical Characteristics

Body Material

Lens Material

Lens Diameter (mm/inches)

Lens Design Mounting

Height (mm/inches) Width (mm/inches) Depth (mm/inches) Mass (kg/lbs)

Product Life Expectancy

Environmental Factors

Humidity

Wind Speed

Certifications

Intensity setting subject to solar availability Subject to standard terms and conditions

Quality Assurance FAA, DGAC

Waterproof

Intellectual Property

Trademarks

notice

Warranty * **Options Available**

12-48 VDC

As tested; FAA: AV-OL-FL810-12-R LED

Red as standard. Other colors available on request, including IR Complies with FAA L-810

360

As per FAA I-810 obstruction light specification

Single LED Optic

obstruction lights

32.5cd

User-adjustable between dusk-till-dawn & 24 hour operation >100.000

12 - 48 VDC

FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 1.44

Integrated -40 to 80°C

LEXAN® Polycarbonate – UV stabilized

LEXAN® Polycarbonate - UV stabilized

100 / 3⁷/8

Single LED Optic

Standard Model: 3/4 inch pipe

Standard Model: 137 / 51/2

121 / 4¾ 121 / 4¾ 0.4 / 7/8

12 years plus

0 to 100%, MIL-STD-810F 3.41kg per square cm /

48.5lbs per square inch Up to 240kph / 150mph

EN61000-6-3:2007 EN61000-6-1:2007 ISO9001:2015 L-810 Low Intensity Obstruction Light (Qualified by Intertek)

AVLITE® is a registered trademark of Avlite Systems

5 year warranty

- · Variety of solar/battery
- configurations
 GSM Cell-Phone Monitoring
- · Dual visual/IR output
- RS422/485 communications port
- Threaded adaptor to fit one (1) inch pipe

110-240 VAC

As tested; FAA: AV-OL-FL810-UM-R LED

Red as standard. Other colors available on request, including IR Complies with FAA L-810

obstruction lights

As per FAA I-810 obstruction light specification

Single LED Optic

32.5cd

User-adjustable between dusk-till-dawn & 24 hour operation >100.000

110 - 240 VAC

FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 2 Smax = 5.3VA

Integrated -40 to 80°C

LEXAN® Polycarbonate – UV stabilized

LEXAN® Polycarbonate - UV

stabilized 100 / 3⁷/8

Single LED Optic

Standard Model: ¾ inch pipe

thread Standard Model: 137 / 51/2

121 / 4¾ 121 / 4¾ 0.4 / 7/8

12 years plus

0 to 100%, MIL-STD-810F 3.41kg per square cm / 48.5lbs per square inch

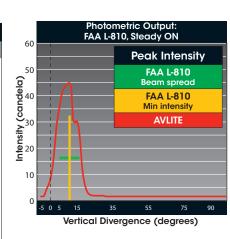
Up to 240kph / 150mph EN61000-6-3:2007 EN61000-6-1:2007

ISO9001:2015 L-810 Low Intensity Obstruction Light (Qualified by Intertek)

AVLITE® is a registered trademark of Avlite Systems

5 year warranty

- · GSM Cell-Phone Monitoring
- Dual visual/IR output
- IR LED
- Threaded adaptor to fit one (1) inch pipe





Certification: FL810 = FAA L-810 LIOL

Model:-12 = 12-48 VDC UM = 110-240 VAC

Color: R = Red

IR = Infrared RIR = Combined Red/IR

Monitoring & Control: -

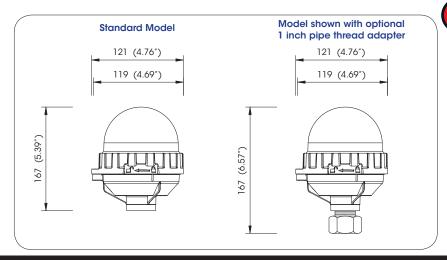
GSM = GSM

[blank] = No monitoring & control

RS Communications Port:

RS = RS communications port (VDC Model) [blank] = No RS communications port

Note: Please contact your Avlite representative for optional power supply





FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'. The operational status of all lights should be confirmed at least once every 24 hours. If a structure is not easily inspected by visual observation, an automatic monitoring system should

Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.













