

ICAO Low Intensity Obstruction Light

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

Features

- 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 intensity to toggle between ICAO LIOL Type A (10cd) & LIOL Type B (32cd)
- 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 and costs
- Easily retrofits with existing installations
- Optional solar powered configurations available
- Optional combined visual/IR for pilots using NVG
- Optional RS422/485 communications port for monitoring DC version

Applications

- Low Intensity Obstruction Light for marking obstacles that do not exceed 45 metres in height

Compliance

- Low Intensity Type A & B Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', table 6.3



Optional
RS422/485
Port

Single LED Optic

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

Tough UV-stabilised LEXAN® polycarbonate lens & light base

Easily installs to 3/4 inch pipe thread

Standard Model



This Avlite light fixture is a steady burning, low intensity LED obstruction light designed to comply with ICAO LIOL Type A & Type B requirements. The model can be used for marking obstacles up to 45 metres above ground, 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 energised in normal operation and is released if there is an LED or power fault.

The unit is available with either a 3/4 or 1 inch thread type - making it simple to retrofit with existing installations.

The ICAO model has adjustable intensity settings to allow the user to easily toggle between 10cd (ICAO Type A) and 32cd (ICAO Type B) light intensities.

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 modes.

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

ICAO Low Intensity Obstruction Light

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

SPECIFICATIONS * *

Light Characteristics

Light Source

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

Current Draw (mA)

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)

Mass (kg/lbs)

Product Life Expectancy

Environmental Factors

Humidity

Icing

Wind Speed

Certifications

CE

Quality Assurance

ICAO

Waterproof

Intellectual Property

Trademarks

Warranty *

Options Available

12-48 VDC

As tested;

ICAO: AV-OL-ILAB-12 (Type A) & AV-OL-ILAB-12 (Type B)

Red as standard. Other colors available on request, including IR
Complies with ICAO LIOLA & LIOLB 360

ICAO Model: as per ICAO Type A/B specification

Single LED Optic

ICAO Model: User-adjustable between 10cd & 32cd

User-adjustable between dusk-till-down & 24 hour operation
>100,000

12 - 48 VDC

@ 12V:

ICAO LIOL Type A @ 10cd Steady-on with relay energised & IR: I_{max} = 65
ICAO LIOL Type B @ 32cd Steady-on with relay energised & IR: I_{max} = 120

ICAO LIOL Type A @ 10cd Steady-on with relay energised & IR: P_{max} = 0.9
ICAO LIOL Type B @ 32cd Steady-on with relay energised & IR: P_{max} = 1.5

Integrated

-40 to 80°C

LEXAN® Polycarbonate - UV stabilized

LEXAN® Polycarbonate - UV stabilized

100 / 3 7/8

Single LED Optic

Standard Model: 3/4 inch pipe thread

Standard Model: 137 / 5 1/2

121 / 4 3/4

0.4 / 7/8

Up to 12 years

0 to 100%, MIL-STD-810F

22kg per square inch

Up to 240kph

EN61000-6-3:1997. EN61000-6-1:1997
ISO9001:2008

Low Intensity Obstruction Light Type A & B

IP67

AVLITE® is a registered trademark of Avlite Systems

3 year warranty

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

110-240 VAC

As tested;

ICAO: AV-OL-ILAB-UM (Type A) & AV-OL-ILAB-UM (Type B)

Red as standard. Other colors available on request, including IR
Complies with ICAO LIOLA & LIOLB 360

ICAO Model: as per ICAO Type A/B specification

Single LED Optic

ICAO Model: User-adjustable between 10cd & 32cd

User-adjustable between dusk-till-down & 24 hour operation
>100,000

110 - 240 VAC

n/a

ICAO LIOL Type A @ 10cd Steady-on with relay energised & IR: P_{max} = 2
ICAO LIOL Type B @ 32cd Steady-on with relay energised & IR: P_{max} = 3

Integrated

-40 to 80°C

LEXAN® Polycarbonate - UV stabilized

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100 / 3 7/8

Single LED Optic

Standard Model: 3/4 inch pipe thread

Standard Model: 137 / 5 1/2

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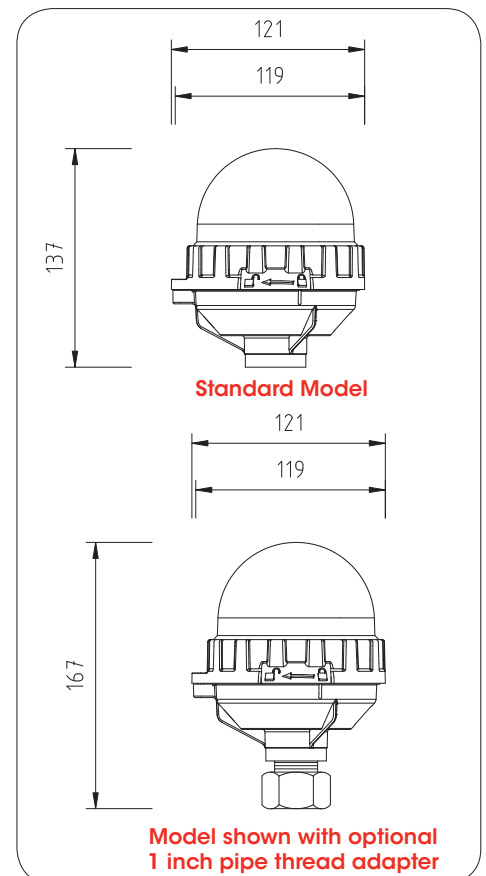
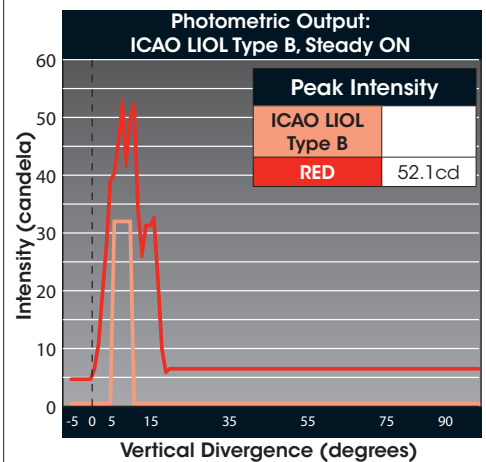
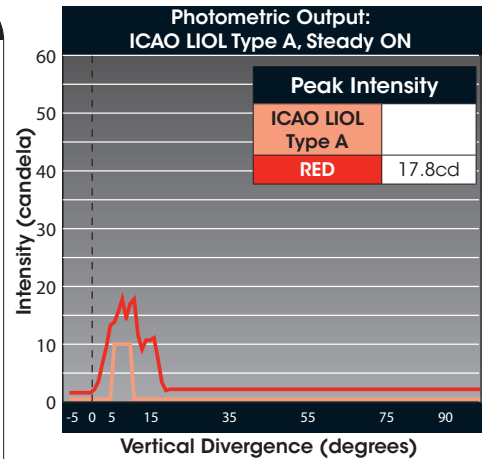
Low Intensity Obstruction Light Type A & B

IP67

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3 year warranty

- Dual visual/IR output
- IR LED
- Threaded adaptor to fit one (1) inch pipe



AV-OL Series Obstruction Lights

How to order

HOW TO ORDER AV-OL Series Obstruction Lights:

ICAO Compliant

AV-OL-ILAB-[Model]-[Color]-[?]-[?]-[?]-[?]

Product No.: _____

Model: _____

12 = 12-48 VDC

UM = 110-240 VAC

Color: _____

R = Red

IR = Infrared

RIR = Combined Red/IR

Single or Dual Fixture: _____

[blank] = Single light fixture

[D] = Dual light fixture

Solar/Battery Configuration: _____

CT1 = Type 1

CT2 = Type 2

[blank] = No solar/battery configuration

Monitoring & Control: _____

G = GSM

RF = Radio Control

[blank] = No monitoring & control

RS Communications Port: _____

RS = RS communications port

[blank] = No RS communications port

