

ICAO Low Intensity Obstruction Light

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

Avlite

www.avlite.com



AUTHORISED DISTRIBUTOR

Features

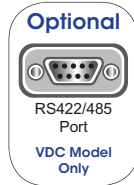
- Cost effective, energy efficient obstruction lighting solution
- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC
- User-adjustable intensity to toggle between ICAO LIOL Type A (10cd) & LIOL Type B (32cd)
- Alarm contact for remote 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

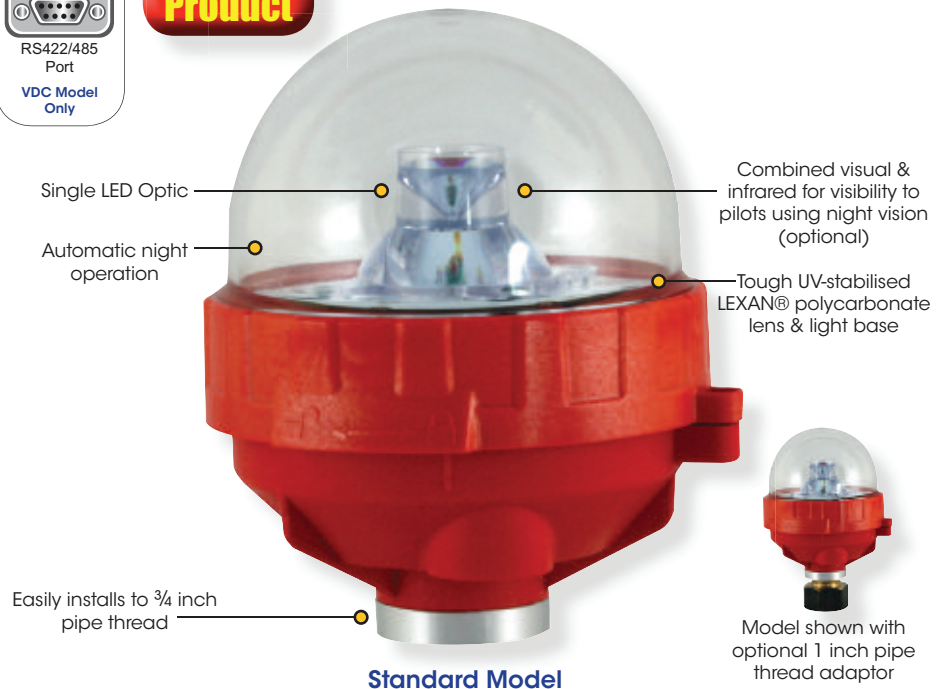
- Low Intensity Obstruction Light for marking obstacles that do not exceed 45 metres in height

Compliance

- Low Intensity Type A & B Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, table 6.3



New Product



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 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

LED Life Expectancy (hours)

Electrical Characteristics

Current Draw (mA)

Circuit Protection
Operating Voltage
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
>100,000

@ 12V:
ICAO LIOL Type A @ 10cd Steady-on with relay energised: I_{max} = 65
ICAO LIOL Type B @ 32cd Steady-on with relay energised: I_{max} = 120

Integrated
12 - 48 VDC
-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 / 5½
121 / 4¾
0.4 / 7⁸/₈
Up to 12 years

0 to 100%, MIL-STD-810F
22kg per square inch
Up to 160kph

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
>100,000

@ 240V:
ICAO LIOL Type A @ 10cd Steady-on with relay energised: I_{max} = 4
ICAO LIOL Type B @ 32cd Steady-on with relay energised: I_{max} = 8

Integrated
110 - 240 VAC
-40 to 80°C

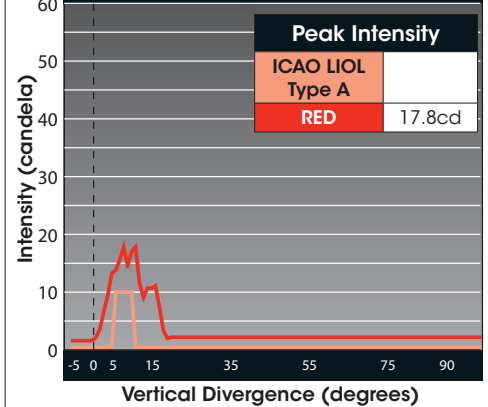
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Up to 160kph

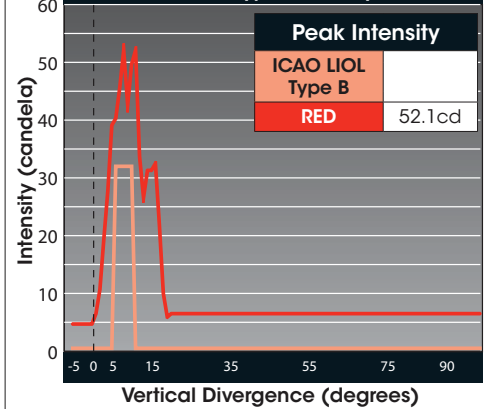
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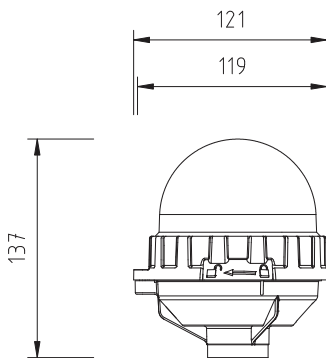
Photometric Output: ICAO LIOL Type A, Steady ON



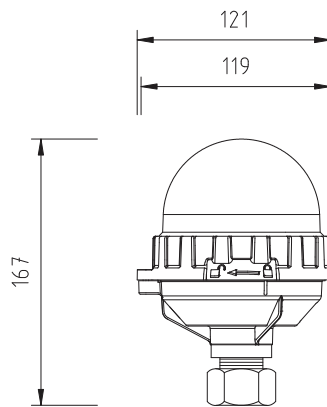
Photometric Output: ICAO LIOL Type B, Steady ON



* Specifications subject to change or variation without notice
† Subject to standard terms and conditions
‡ Intensity setting subject to solar availability



Standard Model



Model shown with optional
1 inch pipe thread adapter

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

