

ICAO Low Intensity Obstruction Light

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

Features

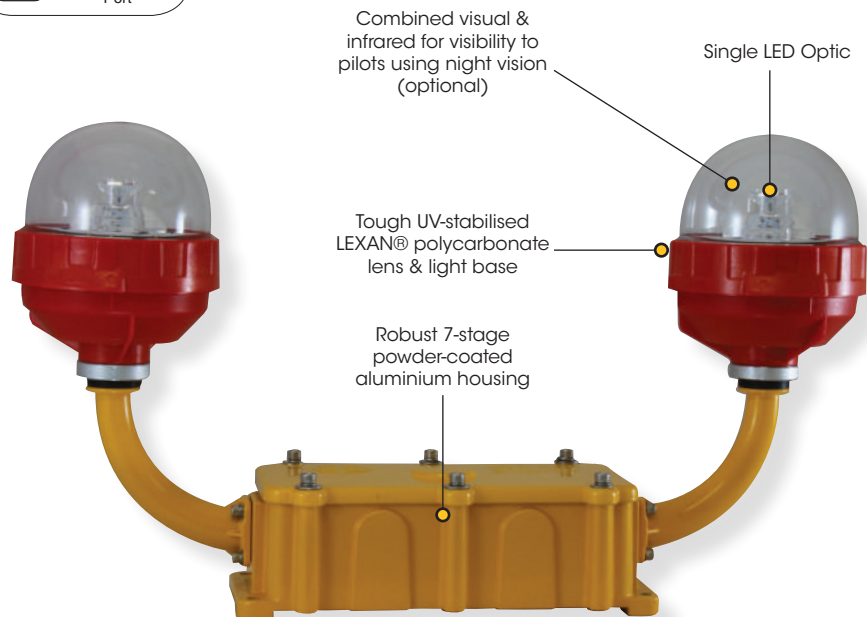
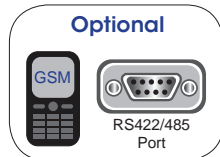
- Cost effective, energy efficient obstruction lighting solution
- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC
- User-adjustable intensity to toggle between ICAO LIOL Type A (10cd) & LIOL Type B (32cd)
- User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
- Dual light fixture enables simultaneous twin operation or redundant failsafe
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Available with optional GSM monitoring for DVC model
- Available with optional RS422/485 communications port for monitoring for VDC model
- Optional combined visual/IR for pilots using NVG

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



This Avlite dual 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 which pose a danger to aircraft at night, 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 dual light fixture can be configured to different operational states. Both light fixtures may be set to operate steady-burning. Alternatively, the dual light fixture may consist of a main light and a standby light. If the main light should ever fail the standby light will automatically switch on to ensure the obstacle is always clearly marked.

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. Integrated sensors in the light are able to detect when the ambient light threshold drops sufficiently and the light will begin operation automatically.

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

All obstruction lights also have 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.

Optional GSM Monitoring & Control

The Avlite dual obstruction light (VDC model) 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.

ICAO Low Intensity Obstruction Light

AV-OL Series Universal AC or Universal DC Dual 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

Current Draw (mA) ‡

Power (W) ‡

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
User-adjustable between dusk-fill-dawn & 24 hour operation >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
Note: One light head ON at one time
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
Note: One light head ON at one time (redundant switch over function)
Integrated
12 - 48 VDC
-40 to 80°C

7-stage powder-coated aluminium
LEXAN® Polycarbonate - UV stabilized
100 / 3⁷/₈
Single LED Optic
4 x 6.5mm mounting holes
262 / 10³/₈
481 / 19
2.3 / 5
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
• GSM Cell-Phone Monitoring
• Dual visual/IR output
• IR LED
• RS422/485 communications port

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-fill-dawn & 24 hour operation >100,000

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
Note: One light head ON at one time (redundant switch over function)
Integrated
110 - 240 VAC
-40 to 80°C

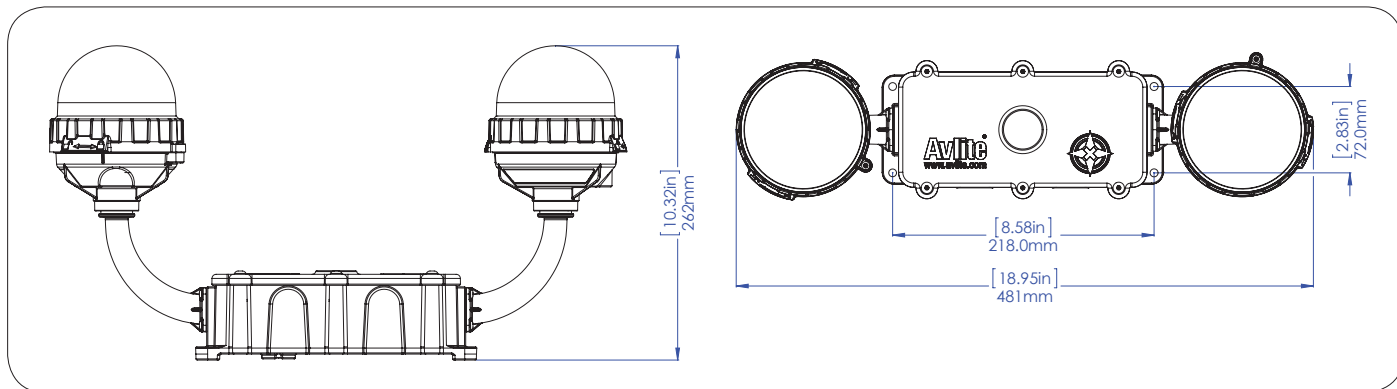
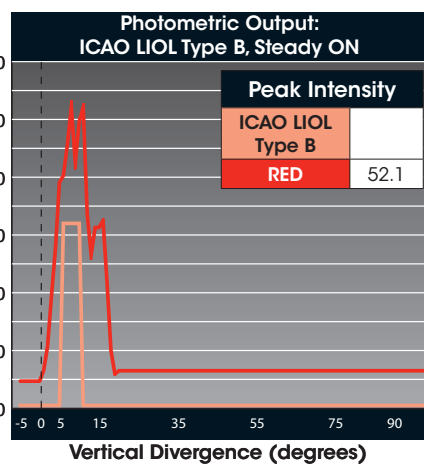
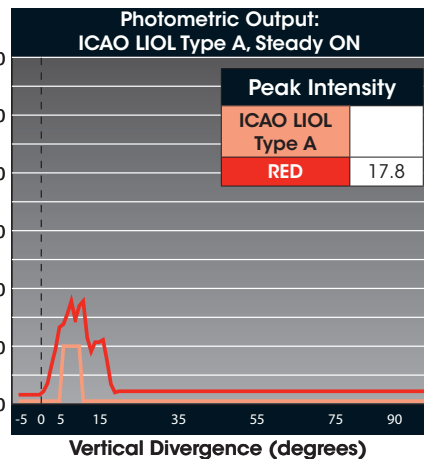
7-stage powder-coated aluminium
LEXAN® Polycarbonate - UV stabilized
100 / 3⁷/₈
Single LED Optic
4 x 6.5mm mounting holes
262 / 10³/₈
481 / 19
2.3 / 5
Up to 12 years

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

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3 year warranty
• Dual visual/IR output
• IR LED



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: _____

GSM = GSM

RF = Radio Control

[blank] = No monitoring & control

RS Communications Port: _____

RS = RS communications port

[blank] = No RS communications port

