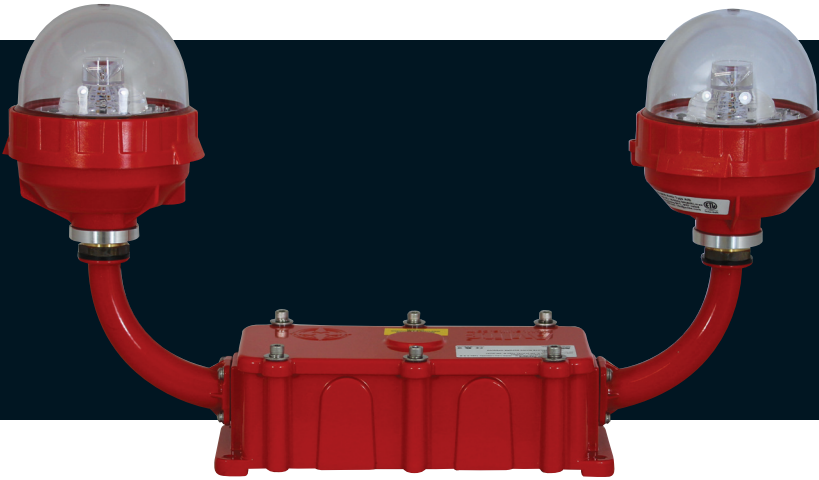


# ICAO Type A & Type B Low Intensity Obstruction Light



AV-OL Series Universal AC or Universal DC Dual 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

¾ inch pipe thread mount

Monitoring options available

### 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

Available with optional RS422/485 communications port for monitoring and synchronisation of VDC model

Optional combined visual/IR for pilots using NVG

**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) visibility for pilots using night vision.**

### Optional GSM Monitoring & Control

The Avlite dual 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.

### Applications

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

### Certifications

Low Intensity Type A & B Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'



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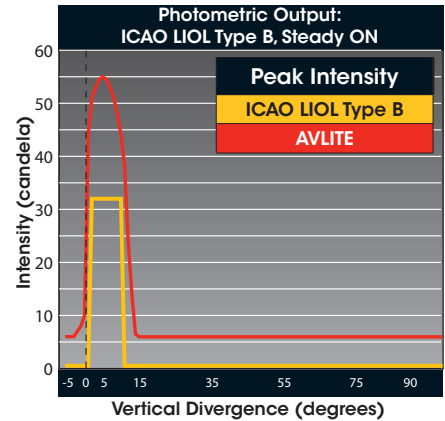
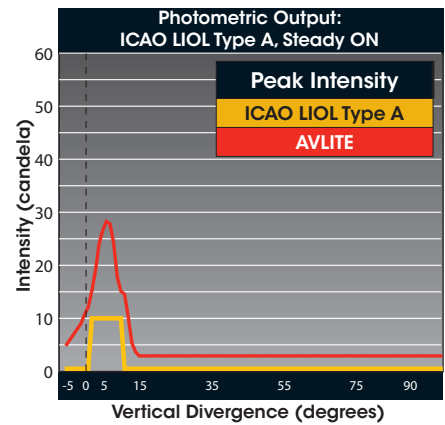
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SPECIFICATIONS * *		
	ICAO Type A & Type B LIOL Dual Fixture	
	12-48 VDC	110-240 VAC
<b>Light Characteristics</b>		
Light Source	As tested; AV-OL-ILAB-12-R (Type A & Type B)	As tested; AV-OL-ILAB-UM-R (Type A & Type B)
Available colours	Red as standard. Other colours available on request, including IR	Red as standard. Other colours available on request, including IR
Peak Intensity (cd) †	Complies with ICAO LIOLA & LIOLB: 2013	Complies with ICAO LIOLA & LIOLB: 2013
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	as per ICAO Type A/B specification	as per ICAO Type A/B specification
Reflector Type	Single LED Optic	Single LED Optic
Intensity Adjustments	User-adjustable between 10cd & 32cd	User-adjustable between 10cd & 32cd
Operation Mode Adjustment	User-adjustable between dusk-till-dawn & 24 hour operation	User-adjustable between dusk-till-dawn & 24 hour operation
LED Life Expectancy (hours)	>100,000	>100,000
<b>Electrical Characteristics</b>		
<b>Failover Configuration @ 12V:</b>		
Power (W) ‡	ICAO LIOL Type A @ 10cd Steady-on with relay energised: Pmax = 0.9 ICAO LIOL Type B @ 32cd Steady-on with relay energised: Pmax = 2.16	ICAO LIOL Type A @ 10cd Steady-on with relay energised: Pmax = 4.2 ICAO LIOL Type B @ 32cd Steady-on with relay energised: Pmax = 7 Smax = 19VA
<b>Dual Lit Configuration @ 12V:</b>		
Power (W) ‡	ICAO LIOL Type A @ 10cd Steady-on with relay energised: Pmax = 1.8 ICAO LIOL Type B @ 32cd Steady-on with relay energised: Pmax = 4.32	ICAO LIOL Type A @ 10cd Steady-on with relay energised: Pmax = 2.4 ICAO LIOL Type B @ 32cd Steady-on with relay energised: Pmax = 8 Smax = 21.3VA
Circuit Protection	Integrated	Integrated
Operating Voltage	12 - 48 VDC	110 - 240 VAC 50/60Hz
Temperature Range	-40 to 80°C	-40 to 80°C
<b>Physical Characteristics</b>		
Body Material	7-stage powder-coated aluminium	7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate - UV stabilized	LEXAN® Polycarbonate - UV stabilized
Lens Diameter (mm/inches)	100 / 3 7/8	100 / 3 7/8
Lens Design	Single LED Optic	Single LED Optic
Mounting	4 x 6.5mm mounting holes	4 x 6.5mm mounting holes
Height (mm/inches)	ICAO Model: 262 / 10 3/8	ICAO Model: 262 / 10 3/8
Width (mm/inches)	481 / 19	481 / 19
Depth (mm/inches)	121 / 4 3/4	121 / 4 3/4
Mass (kg/lbs)	2.3 / 5	2.3 / 5
Product Life Expectancy	12 years plus	12 years plus
<b>Environmental Factors</b>		
Humidity	0 to 100%, MIL-STD-810F	0 to 100%, MIL-STD-810F
Icing	3.41kg per square cm / 48.5lbs per square inch	3.41kg per square cm / 48.5lbs per square inch
Wind Speed	Up to 240kph / 150mph	Up to 240kph / 150mph
<b>Certifications</b>		
CE	EN61000-6-3:2007 EN61000-6-1:2007	EN61000-6-3:2007 EN61000-6-1:2007
Quality Assurance	ISO9001:2008	ISO9001:2008
ICAO	Low Intensity Obstruction Light Type A & B	Low Intensity Obstruction Light Type A & B
Waterproof	IP68	IP68
<b>Intellectual Property</b>		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
<b>Warranty *</b>		
Options Available	5 year warranty • Variety of solar/battery configurations • GSM Cell-Phone Monitoring • Dual visual/IR output • IR LED • RS422/485 communications port	5 year warranty • Variety of solar/battery configurations • GSM Cell-Phone Monitoring • Dual visual/IR output • IR LED



\* Specifications subject to change or variation without notice  
† Subject to standard terms and conditions  
‡ Intensity setting subject to solar availability  
‡ When used in redundant fail-safe mode



## HOW TO ORDER

### ICAO Type A & B LIOL Dual Fixture

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

**Product No.:** \_\_\_\_\_

**Certification:** \_\_\_\_\_  
ILAB = ICAO Type A & B LIOL

**Model:** \_\_\_\_\_  
12 = 12-48 VDC  
UM = 110-240 VAC

**Colour:** \_\_\_\_\_  
R = Red  
IR = Infrared  
RIR = Combined Red/IR

**Fixture Type:** \_\_\_\_\_  
D = Dual fixture

**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 solutions

