

ICAO Low Intensity Obstruction Light

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

Features

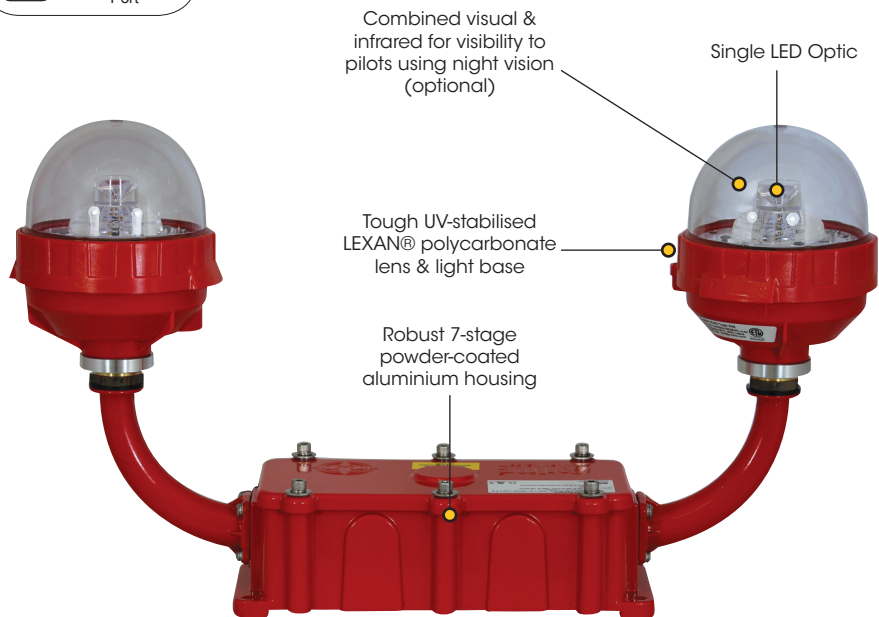
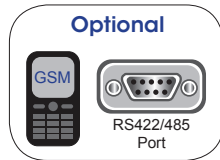
- Cost effective, energy efficient obstruction lighting solution
- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC
- User-adjustable intensity to toggle between ICAO LIOL Type A (10cd) & LIOL Type B (32cd)
- User-adjustable operation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

Certifications

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



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.

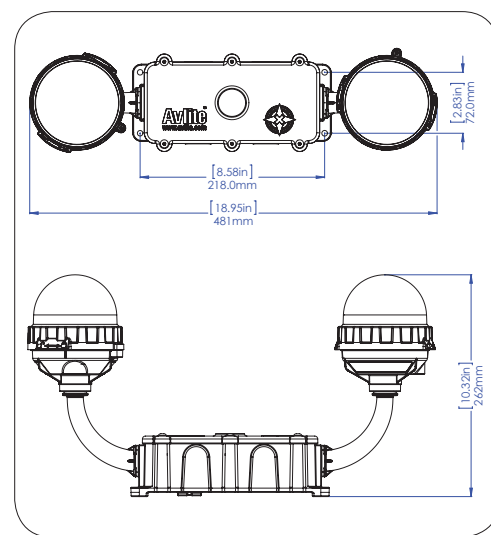
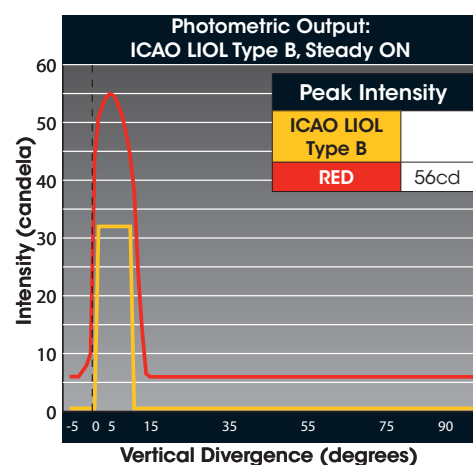
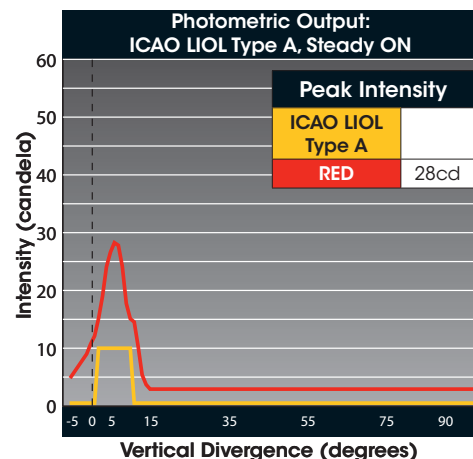
Optional GSM Monitoring & Control

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.

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SPECIFICATIONS* * ICAO Type A & Type B LIOL Dual Fixture	12-48 VDC	110-240 VAC
	<p>Light Characteristics</p> <p>Light Source</p> <p>Available colors</p> <p>Peak Intensity (cd)†</p> <p>Horizontal Output (degrees)</p> <p>Vertical Divergence (degrees)</p> <p>Reflector Type</p> <p>Intensity Adjustments</p> <p>Operation Mode Adjustment</p> <p>LED Life Expectancy (hours)</p> <p>Electrical Characteristics</p> <p>Failover Configuration @ 12V:</p> <p>Current Draw (mA)‡</p> <p>Power (W)‡</p> <p>Dual Lit Configuration @ 12V:</p> <p>Current Draw (mA)‡</p> <p>Power (W)‡</p> <p>Circuit Protection</p> <p>Operating Voltage</p> <p>Temperature Range</p> <p>Physical Characteristics</p> <p>Body Material</p> <p>Lens Material</p> <p>Lens Diameter (mm/inches)</p> <p>Lens Design</p> <p>Mounting</p> <p>Height (mm/inches)</p> <p>Width (mm/inches)</p> <p>Mass (kg/lbs)</p> <p>Product Life Expectancy</p> <p>Environmental Factors</p> <p>Humidity</p> <p>Icing</p> <p>Wind Speed</p> <p>Certifications</p> <p>CE</p> <p>Quality Assurance</p> <p>ICAO</p> <p>Waterproof</p> <p>Intellectual Property</p> <p>Trademarks</p> <p>Warranty* Options Available</p>	<p>As tested;</p> <p>ICAO: AV-OL-ILAB-12-R (Type A) & AV-OL-ILAB-12 (Type B)</p> <p>Red as standard. Other colors available on request, including IR</p> <p>Complies with ICAO LIOLA & LIOLB 360</p> <p>as per ICAO Type A/B specification</p> <p>Single LED Optic</p> <p>User-adjustable between 10cd & 32cd</p> <p>User-adjustable between dusk-fill-claw & 24 hour operation >100,000</p> <p>ICAO LIOL Type A @ 10cd Steady-on with relay energised: I_{max} = 75</p> <p>ICAO LIOL Type B @ 32cd Steady-on with relay energised: I_{max} = 180</p> <p>ICAO LIOL Type A @ 10cd Steady-on with relay energised & IR: P_{max} = 0.9</p> <p>ICAO LIOL Type B @ 32cd Steady-on with relay energised & IR: P_{max} = 2.16</p> <p>ICAO LIOL Type A @ 10cd Steady-on with relay energised: I_{max} = 150</p> <p>ICAO LIOL Type B @ 32cd Steady-on with relay energised: I_{max} = 360</p> <p>ICAO LIOL Type A @ 10cd Steady-on with relay energised & IR: P_{max} = 1.8</p> <p>ICAO LIOL Type B @ 32cd Steady-on with relay energised & IR: P_{max} = 4.32</p> <p>Integrated</p> <p>12 - 48 VDC</p> <p>-40 to 80°C</p> <p>7-stage powder-coated aluminium LEXAN® Polycarbonate - UV stabilized</p> <p>100 / 3 7/8</p> <p>Single LED Optic</p> <p>ICAO Model: 4 x 6.5mm mounting holes</p> <p>ICAO Model: 262 / 10³/₈</p> <p>481 / 19</p> <p>2.3 / 5</p> <p>Up to 12 years</p> <p>0 to 100%, MIL-STD-810F</p> <p>22kg per square inch</p> <p>Up to 240kph</p> <p>EN61000-6-3:2007</p> <p>EN61000-6-1:2007</p> <p>ISO9001:2008</p> <p>Low Intensity Obstruction Light Type A & B</p> <p>IP67</p> <p>AVLITE® is a registered trademark of Avlite Systems</p> <p>4 year warranty</p> <ul style="list-style-type: none"> Variety of solar/battery configurations GSM Cell-Phone Monitoring Dual visual/IR output IR LED RS422/485 communications port



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

