ICAO Type B or Type C Medium Intensity Obstruction Light

NATA WORLD RECOGNISED ACCREDITATION

AV-OL Series Universal AC or Universal DC Light Fixture

- LED Optic
- Low power consumption
- In-built control & monitoring options
- Impact modified UV-stabilized acrylic lens
- Lightweight
- Small form factor

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
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Provision for external hardwire synchronisation
- Optional solar powered configurations available
- Optional onboard GPS receiver for synchronisation
- Optional GSM monitoring
- Optional general purpose I/O with galvanic isolation
- Optional RS422/485 communications port for monitoring

Applications

- Medium Intensity Obstruction Light for marking obstacles from 45 metres in height

Certifications

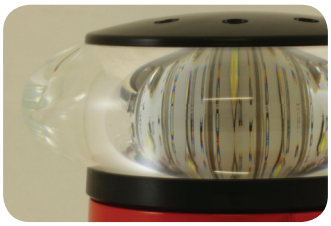
- Medium Intensity Type B or Type C Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'

This Avlite light fixture is a flashing, medium intensity LED obstruction light designed to comply with ICAO MIOL Type B or Type C requirements. The model can be used for marking obstacles from 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 multiple, high intensity LEDs for efficient operation. The corrosion resistant, acrylic 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.


LED lens

Optional RS422/RS485 Monitoring

The obstruction light is available with RS422/485 monitoring functionality, enabling operators to monitor the status of the unit in real-time. The system tracks critical application specific parameters including alarm status, LED status, operation mode, intensity, flash code and source voltage.


IR Remote Programmer

Optional GPS Synchronisation

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronisation system that can be incorporated into the lights. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.


Heavy duty, cast aluminium base

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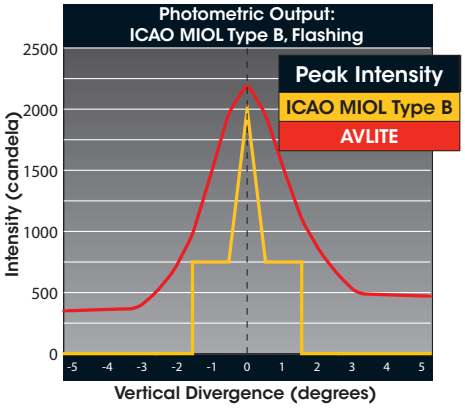
SPECIFICATIONS • *	ICAO Type B or Type C MIOL	
	12–48 VDC	110–240 VAC
Light Characteristics		
Available colours	Red as standard. Other colours available on request	Red as standard. Other colours available on request
Effective Intensity (cd)†	Type B: Complies with ICAO MIOLB. 2000cd Type C: Complies with ICAO MIOLC. 2000cd	Type B: Complies with ICAO MIOLB. 2000cd Type C: Complies with ICAO MIOLC. 2000cd
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	As per ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Sixth edition, July 2013	As per ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Sixth edition, July 2013
Available Flash Characteristics	Type B: 0.5s ON, 2.5s OFF – 16.6% duty cycle Type C: Steady-ON	Type B: 0.5s ON, 2.5s OFF – 16.6% duty cycle Type C: Steady-ON
Electrical Characteristics		
Operating Voltage	12 – 48 VDC	110 – 240VAC 50/60Hz
Power (Average Flashing)	Type B: 6W Type C: N/A	Type B: Pmax: 6W, Smax: 8VA Type C: N/A
Power (Peak)	Type B: 36W Type C: 27W	Type B: Pmax: 36W, Smax 48VA Type C: Pmax: 27W, Smax 36VA
Circuit Protection	Integrated	Integrated
Temperature Range	-40 to 80°C	-40 to 80°C
Physical Characteristics		
Body Material	7-stage powder-coated aluminium	7-stage powder-coated aluminium
Lens Material	Impact modified UV stabilized acrylic	Impact modified UV stabilized acrylic
Lens Diameter (mm/inches)	171 / 6¾	171 / 6¾
Lens Design	Multi LED Optic	Multi LED Optic
Mounting	200mm bolt pattern	200mm bolt pattern
Height (mm/inches)	151 / 6	151 / 6
Width (mm/inches)	230 / 9	230 / 9
Mass (kg/lbs)	5.5 / 12¼	5.8 / 12¾
Product Life Expectancy	12 years plus	12 years plus
Environmental Factors		
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
Certifications		
CE	EN61000-6-3:2007 EN61000-6-1:2007	EN61000-6-3:2007 EN61000-6-1:2007
Quality Assurance	ISO9001:2008	ISO9001:2008
Waterproof	IP68	IP68
Intellectual Property		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
Warranty *	5 year warranty	5 year warranty
Options Available	• Variety of solar/battery configurations • GSM Cell-Phone Monitoring • GPS Synchronisation • RS422/485 communications port	• GSM Cell-Phone Monitoring • GPS Synchronisation • RS422/485 communications port

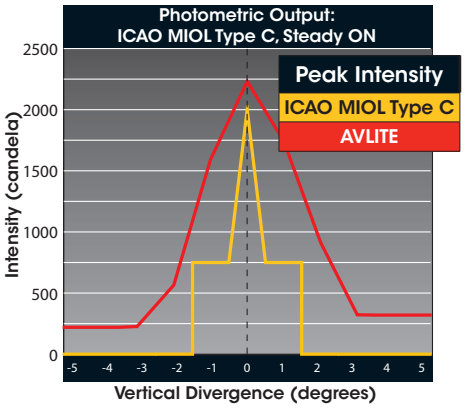
CE

† Intensity setting subject to solar availability

* Subject to standard terms and conditions

• Specifications subject to change or variation without notice



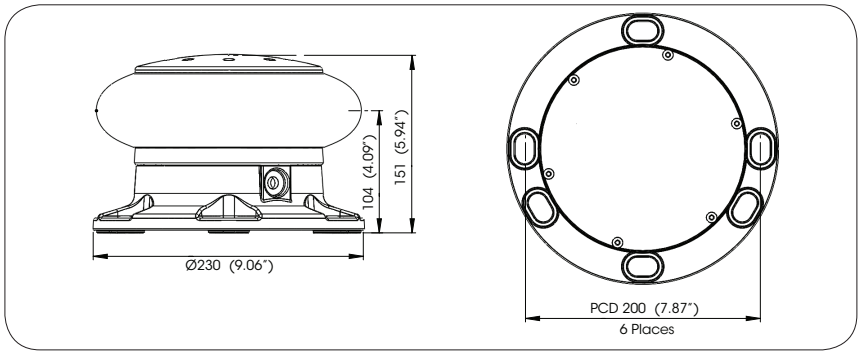


Optional GSM Monitoring & Control

The Avlite 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.

IR Remote Control

The IR remote is used to communicate with Avlite lighting products that have an IR sensor fitted. The remote control is used to control functions such as operation mode (dusk-till-dawn or always-on) and the lux levels (lux settings for dusk and dawn).



HOW TO ORDER

ICAO Type B or Type C MIOL

AV-OL-[?]-[Model]-R-[?]-[?]

Product No.:

Certification:
IMB = ICAO Type B MIOL
IMC = ICAO Type C MIOL

Model:
12 = 12–48 VDC
UM = 110–240 VAC

Colour:
R = Red

Monitoring & Control:
GSM = GSM
GPS = GPS Synchronisation
[blank] = No monitoring & control

RS Communications Port:
RS = RS communications port
[blank] = No RS communications port

Note: Please contact your Avlite representative for optional power supply solutions

HOW TO ORDER

Solar Power Supply

AV-PS-120-140-01

Product No.:

Battery Capacity:
120 = 120 Ah

Solar Output:
140 = 140 watts

Mount Type:
01 = post mount

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