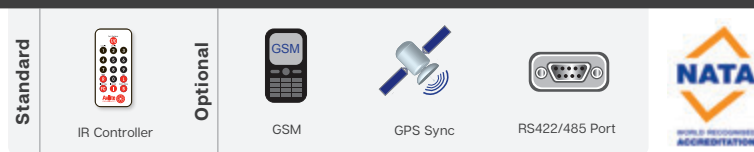


# CASA

## Low Intensity Obstruction Light

AV-OL Series Universal AC or Universal DC Light Fixture



This Avlite light fixture is a steady-on, low intensity LED obstruction light designed to comply with CASA LIOL requirements. The model can be used for marking obstacles up to 45 metres above ground.



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, 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.

### 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.

### 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 if set to flashing. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

### 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).

### Characteristics of CASA Low Intensity Obstacle Lights

CASA low intensity obstacle lights, for general applications, are to have the following characteristics:

- fixed lights showing red
- a horizontal beam spread that results in 360° coverage around obstacle
- a peak intensity of 100cd minimum
- a vertical beam spread (to 50% of peak intensity) of 10°
- a vertical distribution with 100cd minimum at +6° and +10° above the horizontal
- not less than 10cd at all elevation angles between -3° and +90° above the horizontal



Note: the intensity level is higher than ICAO standards because in Australia only obstacles assessed as significant to aircraft operations are required to be provided with obstacle lighting

References: Civil Aviation Safety Authority (CASA) Manual of Standards Part 139 - Aerodromes, Version 1.14 January 2017

### 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

### Applications

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

### Optional


- 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

### Certifications

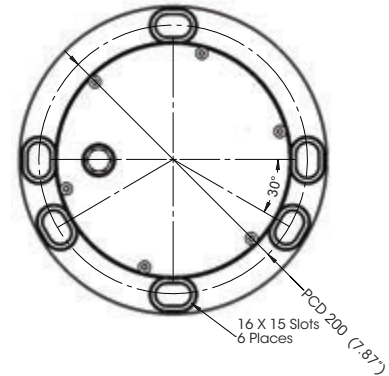
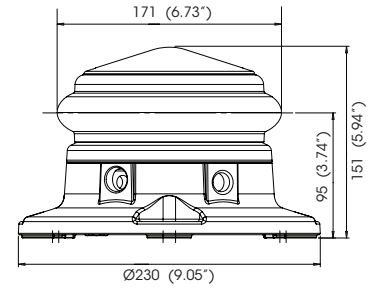
- Civil Aviation Safety Authority of Australia (CASA) Manual of Standards Part 139 - Aerodromes, Version 1.14 January 2017

## Technical Specifications \*\*

	12-48 VDC	110-240 VAC
<b>Light Characteristics</b>		
<b>Available colours</b>	Red as standard. Other colours available on request	Red as standard. Other colours available on request
<b>Peak Intensity (cd)*</b>	Complies with CASA LIOL. 100cd	Complies with CASA LIOL. 100cd
<b>Horizontal Output (degrees)</b>	360	360
<b>Vertical Divergence (degrees)</b>	>10. 100cd minimum at +6° and +10° above the horizontal. Not less than 10cd at all elevation angles between -3° and +90° above the horizontal.	>10. 100cd minimum at +6° and +10° above the horizontal. Not less than 10cd at all elevation angles between -3° and +90° above the horizontal.
<b>Available Flash Characteristics</b>	Steady-on. Flash rates available on request	Steady-on. Flash rates available on request
<b>Electrical Characteristics</b>		
<b>Operating Voltage</b>	12 – 48VDC	110 – 240VAC
<b>Power (Watts)</b>	17W	20W
<b>Circuit Protection</b>	Integrated	Integrated
<b>Temperature Range</b>	-40 to 80°C	-40 to 80°C
<b>Physical Characteristics</b>		
<b>Body Material</b>	Premium enamel painted coating	Premium enamel painted coating
<b>Lens Material</b>	LEXAN® Polycarbonate – UV stabilized	LEXAN® Polycarbonate – UV stabilized
<b>Lens Diameter (mm/inches)</b>	171 / 6 3/4	171 / 6 3/4
<b>Lens Design</b>	Multi LED Optic	Multi LED Optic
<b>Mounting</b>	200mm bolt pattern	200mm bolt pattern
<b>Height (mm/inches)</b>	151 / 6	151 / 6
<b>Width (mm/inches)</b>	230 / 9	230 / 9
<b>Depth (mm/inches)</b>	230 / 9	230 / 9
<b>Mass (kg/lbs)</b>	5 / 11	5 / 11
<b>Product Life Expectancy</b>	12 years plus	12 years plus
<b>Environmental Factors</b>		
<b>Humidity</b>	0 to 100%, MIL-STD-810F	0 to 100%, MIL-STD-810F
<b>Icing</b>	3.41kg per square cm / 48.5lbs per square inch	3.41kg per square cm / 48.5lbs per square inch
<b>Wind Speed</b>	Up to 240kph / 150mph	Up to 240kph / 150mph
<b>Certifications</b>		
<b>CE</b>	EN61000-6-3:2007 EN61000-6-1:2007	EN61000-6-3:2007 EN61000-6-1:2007
<b>Quality Assurance</b>	ISO9001:2015	ISO9001:2015
<b>Waterproof</b>	IP68	IP68
<b>Intellectual Property</b>		
<b>Trademarks</b>	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
<b>Warranty *</b>	5 year warranty	5 year warranty
<b>Options Available</b>	<ul style="list-style-type: none"> <li>Variety of solar/battery configurations</li> <li>GSM Cell-Phone Monitoring</li> <li>GPS Synchronisation</li> <li>RS422/485 communications port</li> </ul>	<ul style="list-style-type: none"> <li>GSM Cell-Phone Monitoring</li> <li>GPS Synchronisation</li> <li>RS422/485 communications port</li> </ul>

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

## Technical Illustration



### How to Order

ICAO Type B or Type C MIOL

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

**Product No.:** \_\_\_\_\_  
**Certification:** \_\_\_\_\_  
 CL = CASA LIOL  
**Model:** \_\_\_\_\_  
 12 = 12-48 VDC  
 UM = 110-240 VAC  
**Colour:** \_\_\_\_\_  
 R = Red  
 Note: other colours available  
**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

### Photometric Output

