



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 hardware 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 & synchronisation

### Applications

Low Intensity Obstruction Light for marking obstacles up to 45 metres in height

### Compliance

Civil Aviation Safety Authority of Australia (CASA) Manual of Standards Part 139 - Aerodromes, Version 1.11 November 2013

**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.

#### 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 Control

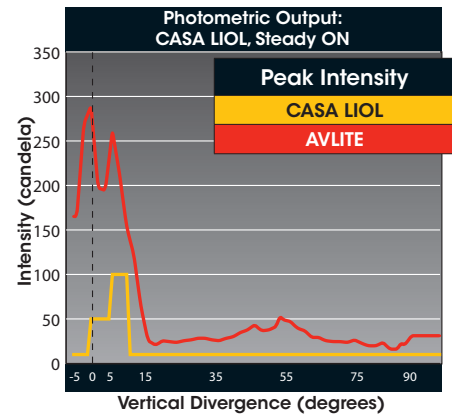
The IR remote is used to communicate with Avlite lighting products that have an IR sensor fitted. The remote control is used to control functions such as operation mode (dusk-till-dawn or always-on) and the lux levels (lux settings for dusk and dawn).



Heavy duty, cast aluminium base

SPECIFICATIONS * *	CASA LIOL	
	12-48 VDC	110-240 VAC
<b>Light Characteristics</b>		
Available colours	Red as standard. Other colours available on request	Red as standard. Other colours available on request
Peak Intensity (cd) †	Complies with CASA LIOL. 100cd	Complies with CASA LIOL. 100cd
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	>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.
Available Flash Characteristics	Steady-on. Flash rates available on request	Steady-on. Flash rates available on request
<b>Electrical Characteristics</b>		
Operating Voltage	12 - 48VDC	110 - 240VAC
Power (Watts)	17W	20W
Circuit Protection	Integrated	Integrated
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)	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
Depth (mm/inches)	230 / 9	230 / 9
Mass (kg/lbs)	5 / 11	5 / 11
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
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>	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>

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



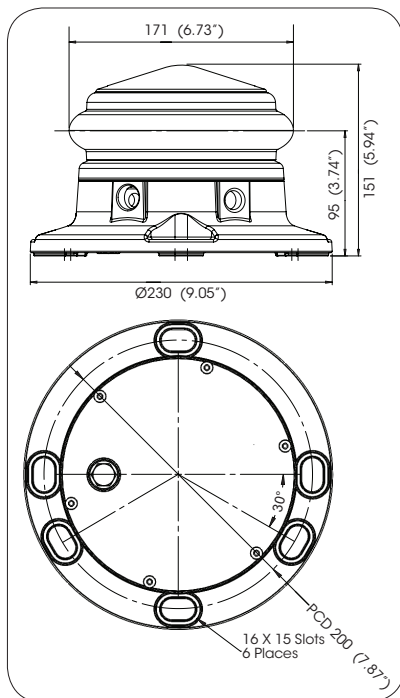
### Characteristics of CASA Low Intensity Obstacle Lights

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 1.11 November 2013



### HOW TO ORDER

**CASA LIOL**

Product No.: AV-OL-CL-[Model]-R-[?]-[?]

**Compliance:**  
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

### HOW TO ORDER

**Solar Power Supply**

Product No.: AV-PS-120-140-01

**Battery Capacity:**  
120 = 120 Ah

**Solar Output:**  
140 = 140 watts

**Mount Type:**  
01 = post mount

