Combined Medium Intensity (CMI) Obstruction Light

AV-OL Series DC Light Fixture

Standard

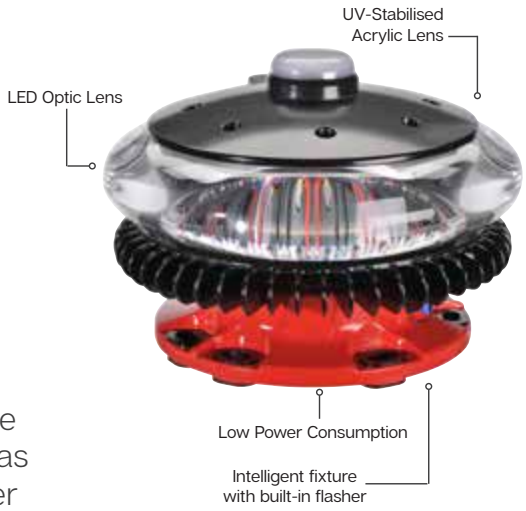
IR Controller

Optional

GPS Sync

GSM

Intertek



This Avlite light fixture is a combined medium intensity LED obstruction light designed to comply with FAA L-864, L-865, L-885 & L-866 as well as ICAO MIOL Type A, Type B and Type C requirements for day/night marking of obstacles. The model can be used for marking a variety of obstacles 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 as either a stand-alone fixture or part of turn-key obstruction lighting package.

The advanced light optic uses 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 energized in normal operation and is released if there is an LED or power fault.

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.

Complete Obstruction Solutions Available

The CMI fixture is available as part of complete turn-key obstruction lighting systems which also includes all required low intensity lights, junction boxes and mounting hardware. Our complete obstruction light solutions also include a central controller and can be supplemented with a variety of add-on power supply units and solar system options.

Features

- Available as a standalone DC fixture or part of a complete obstruction lighting solution
- Alarm contact for remote monitoring
- Integrated light sensor for day/night operation
- LED technology

Cost Effective

- Low power consumption
- Energy efficient lighting solution

High Performance

- Corrosion resistant acrylic lens
- Internal diagnostic checking
- GPS synchronisation
- IR programmer

Applications

- Medium Intensity Obstruction Light for marking obstacles
- Telecommunication towers
- Wind Turbines
- Buildings & tall structures

Optional

- GSM monitoring & control
- Solar power configurations

Compliance

- FAA Engineering Brief No. 67D
- Transport Canada, CAR 2015-2, Standard 621
- Medium Intensity Type A, Type B & Type C Obstruction Light, ICAO Annex 14, Volume 1

Certifications

- FAA L-864, L-865, L-885 & L-866 Medium Intensity Obstruction Light, FAA AC 150/5345-43H

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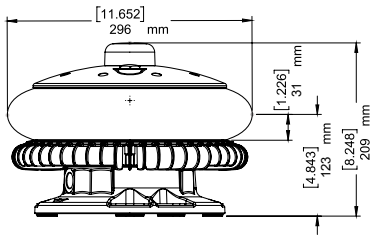
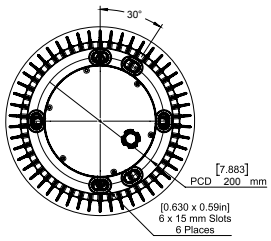
Technical Specifications ·*

Combined Medium Intensity Obstruction Light 36-48 VDC	
Light Characteristics	
Available colours	White during day, Red at night as Standard
Effective Intensity (cd)†	L-865 (day & twilight): 20000cd L-865 (night): 2000cd L-864 (night): 2000cd L-866 (day & twilight): 20000cd L-866 (night): 2000cd L-885 (night): 2000cd ICAO MIOL Type A (day & twilight): 20000cd ICAO MIOL Type A (night): 2000cd ICAO MIOL Type B (night): 2000cd ICAO MIOL Type C (night): 2000cd
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	3
Available Flash Characteristics	L-865 (day & twilight): 0.09s ON, 1.41s OFF - 6% duty cycle L-865 (night): 0.2s ON, 1.3s OFF - 13.3% duty cycle L-864 (night): 0.2s ON, 1.8s OFF – 10% duty cycle L-866 (day & twilight): 0.09s ON, 0.91s OFF - 9% duty cycle L-866 (night): 0.2s ON, 0.8s OFF - 20% duty cycle L-885 (night): 0.2s ON, 0.8s OFF - 20% duty cycle ICAO MIOL Type A & B: 0.5s ON, 2.5s OFF – 16.6% duty cycle ICAO MIOL Type C: Steady-On
Electrical Characteristics	
Operating Voltage	36 – 48 VDC
Power (Average Flashing)	L-865: 30W (white: day & twilight) L-865: 5W (white: night) L-864: 4W (red: night) L-866: 43W (white: day & twilight) L-866: 7.6W (white: night) L-885: 8W (red: night) ICAO MIOL Type A (day): 40W ICAO MIOL Type A (night): 5W ICAO MIOL Type B (night): 4.5W ICAO MIOL Type C (night): 30W
Power (Peak)	White (L-865,L-866, ICAO MIOL Type A): 480W Red (L-864,L-885, ICAO MIOL Type B & C): 42W
Circuit Protection	Integrated
Operating Temperature	-40 to 55°C
Storage Temperature	-55 to 55°C
Physical Characteristics	
Body Material	Premium enamel painted coating
Lens Material	Impact - modified UV stabilized acrylic
Lens Diameter (mm/inches)	171 / 6¾
Lens Design	Multi LED Optic
Mounting	200mm bolt pattern
Height (mm/inches)	209 / 8¼
Width (mm/inches)	296 / 11¾
Mass (kg/lbs)	9.7 / 21½
Product Life Expectancy	12 years plus
Environmental Factors	
Humidity	0 to 100%
Icing	3.41kg per square cm / 48.5lbs per square inch
Wind Speed	Up to 240kph / 150mph
Certifications & Compliance	
CE	EN61000-6-3:2007, EN61000-6-1:2007
Quality Assurance	ISO9001:2015
FAA	FAA L-864, L-865, L-885, L-866 Medium Intensity Obstruction Light, FAA AC 150/5345-43H
Transport Canada	CL-864, CL-865, CL-885, CL-866, Canadian Aviation Regulations 2015-2, Standard 621- Obstruction Marking and Lighting, March 2016 Appendix B
ICAO	Medium Intensity Type A,Type B and Type C Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'
Waterproof	IP68
Intellectual Property	
Trademarks	AVLITE® is a registered trademark of Avlite Systems
Warranty *	5 year warranty
Options Available	· Variety of solar/battery configurations · GSM Cell-Phone Monitoring

Technical Illustrations





How to Order CMI

AV-OL- CMI -[Preset Configuration]

Product No.:

Preset Configuration:

String	Description
01	IMA
02	IMB
03	IMC
04	IMAB
05	IMAC
06	L-864
07	L-865
08	L-864/L-865
09	L-866 Top
10	L-866 Middle
11	L-866 Bottom
12	L-885 Top
13	L-885 Middle
14	L-885 Bottom
15	L-885/L-866 Top
16	L-885/L-866 Middle
17	L-885/L-866 Bottom

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

FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'.
The operational status of all lights should be confirmed at least once every 24 hours.
If a structure is not easily inspected by visual observation, an automatic monitoring system should be used.

Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.

CE

· Specifications subject to change or variation without notice
* Subject to standard terms and conditions

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