

Medium intensity obstruction light AOL303-2006

For night marking of wind power plants and other aviation obstacles

The medium intensity obstruction light AOL303-2006 according to ICAO is part of the Heliport Lighting System for wind energy plants and is a red obstruction light for night use. It has been developed and designed for marking of wind energy plants and other aviation obstacles.

It is designed in accordance with the recommendations of ICAO Annex 14 and requirements to climatic and mechanical stress according to FAA. So it is uncomplicated to use this obstruction light in accordance with various national recommendations, that are basing on FAA or ICAO.

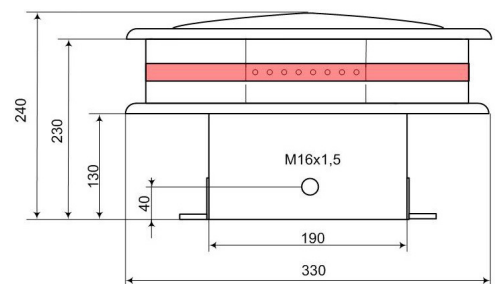
It is available as type B (2000 cd flashing), type C (2000 cd steady).

Technical data:

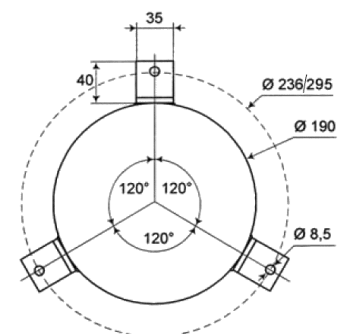
■ Type	AOL303-2006
■ Input voltage (control)	90 ... 264 V AC; 127 ... 370 V DC, 47 ... 63 Hz
■ Power consumption (per obstruction light)	90W average
■ Light source	High-performance-LED, red
■ Optics	Fresnel optics
■ Flashing characteristics	Typ B: 20 flashes per minute (1s on / 2s off), Typ C: steady
■ Average life time	40.000h
■ Light intensity, effective	Typ B/C: 2.000 cd red, horizontal 360°
■ Environmental conditions	designed for outdoor use even under difficult conditions, between -40 and + 80°C (see test report)
■ Housing	Cast aluminium, powder-coated, traffic white
■ Degree of protection	IP 66
■ Electrical connection	terminals max. 2.5 ²
■ Dimensions	See drawings
■ Weight	Approx. 6,7 kg
■ Mechanical stress	Vibration-resistant



Side View



Bottom View



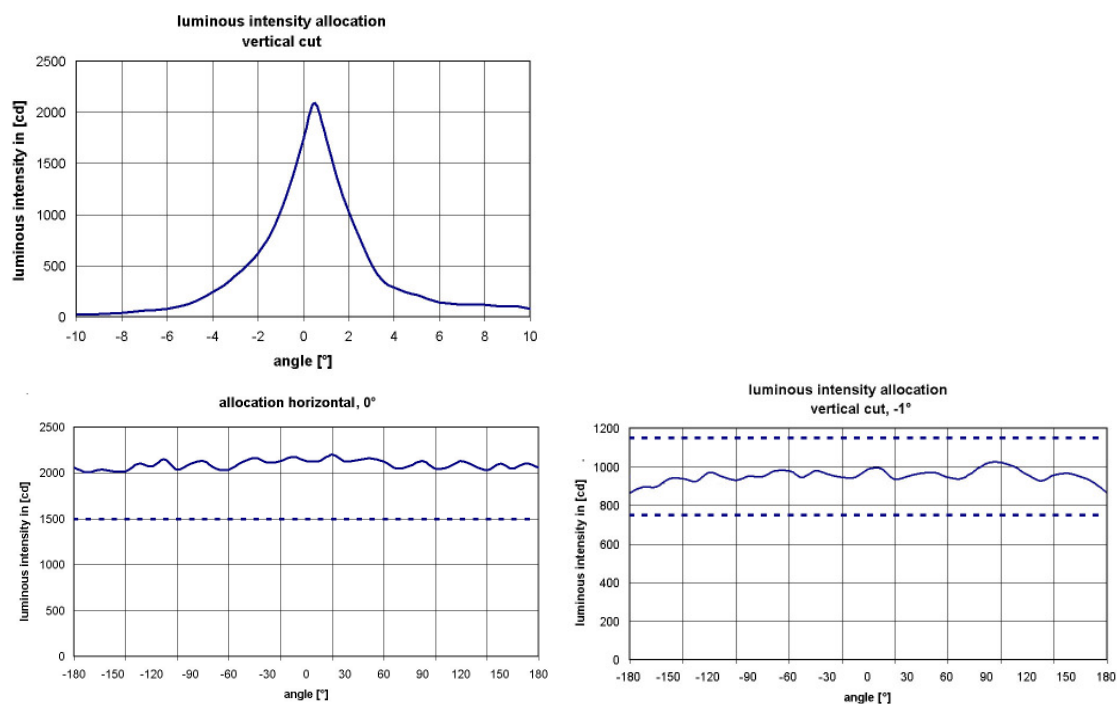
The key benefits of the obstruction light and the lighting system:

- Synchronous flashing of any number of obstruction lights in windparks
- Reduction of light intensity (by additional visibility meter)
- Special lenses to minimize disturbing light influence at the ground
- LED-technology for long life time and a low energy consumption
- Low weight and robust, weather-, vibration-resistant housing

Special technical characteristics:

- Robust electrical design: one or more eventual defective LEDs do not affect the operation of the whole obstruction light
- Voltage surge protection integrated in both obstruction light and control
- GPS-receiver, photoelectric switch and LED-controller integrated or optionally in external housing
- Mounting solution for horizontal adjustment
- Pluggable connector assembly at cabine roof for easy maintenance works at the wind power plant
- Use of shielded cable protects from interferences (i.e. surge voltages)
- Uninterruptible Power Supply for 1 hour integrated, for up to 10 hours in external housing
- Failure alarm control

Light characteristics:



In accordance with the following recommendations:

- ICAO Annex 14
- Requirements to climatic and mechanical stress according to FAA (confirmed in climatic and vibration tests of "SLG Prüf- und Zertifizierungs GmbH", certificate no. 1296-07-GG-07-PP001 dated 03/01/2008)
- Various national recommendations basing on FAA or ICAO (i.e. Germany, Czech Republic)
- Option AOL303E: in accordance with CAA Cap168, Table 6A/1/14 (separate data sheet on request)