LOW INTENSITY OBSTRUCTION LIGHT

As specified by **Annex 14 of ICAO regulation, Low Intensity Obstruction Lights (LIOL) should be used to warn the presence of obstacles up to 45m height,** such as telecommunication towers, wind turbines, chimneys, cranes, buildings and other structures.

Low Intensity Obstruction Lights are the simplest devices according to ICAO standards and they have the following characteristics and uses:

- LIOL, **Type A (intensity >10cd, red steady burning)** can be used alone;
- LIOL, **Type B (intensity >32cd, red steady burning)**, can be used either alone or in combination with medium intensity obstacle lights Type B, Type AB or with high intensity obstacle lights Type AB;
- LIOL, **Type E (intensity >32cd, red flashing),** can be used either alone or in combination with medium intensity obstacle lights, Type B. Flashing rate will be set at the same rate of other flashing beacons installed on the structure.

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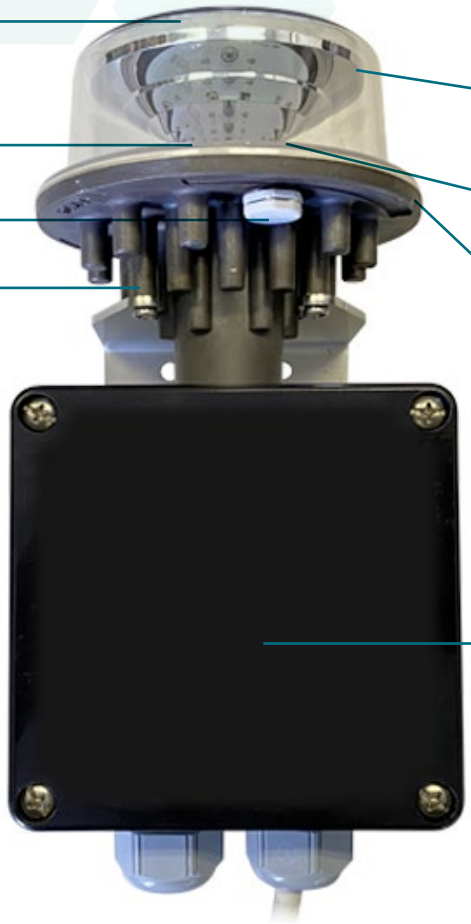
LIOL-A, LIOL-B and LIOL-E
LOW INTENSITY OBSTRUCTION LIGHT

Policarbonate UV resistant dome

- Standard circuits or TWIN*
- Infrared version*

Anti-condensation Gore-Tex valve

Anodised aluminium body with heat-sink pins



Stabilised light output: LIOL-A: >10cd
LIOL-B: >32cd
LIOL-E: >32cd

Based on LED technology
Red flashing light
Red steady burning light

Polyurethane foam

GRP UV resistant box for electronic circuit

IP66

PATENTED

***as option**

LUXSOLAR L810-LXS Low Intensity Obstruction Light is compliant to **ICAO** (Low Intensity - Type A or B), **FAA** (Type L-810), **ENAC and EASA certified.**

With a **low-weight** and **compact body**, high quality and **ultra-bright LEDs, optical reflector for an optimum beam spread**, LUXSOLAR LIOL-A/B product is **your best choice for an efficient, long life and reliable Aircraft Warning Obstacle Light.**

CERTIFICATION

CE · STAC · ENAC · EASA

COMPLIANCE

ICAO · FAA

FEATURES

BASE: AL · DOME: PC · -20°C +50°C · IP66 · ON · SELF extinguishing · LED SMD · TYPE A: CD >10 · TYPE B and E: CD >32 · TYPE A: 2W(DC) · TYPE B: 3W(DC) · TYPE E: 2W(DC) · OPTION: TWIN OPERATIONS

LED LIGHT DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 3R LED PRODUCT · Photometric Test · GORE-TEX · tested at 240km/h (150mph) · EASY INSTALL

TYPICAL APPLICATION

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LIOL-A, LIOL-B and LIOL-E TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- RED light - Steady Burning
- RED light - Flashing
- LIOL-A: >10 cd
- LIOL-B: >32 cd
- LIOL-E: >32 cd (flashing light)
- Cd emission: +6° and +10°
- Horizontal beam radiation: 360°
- Vertical beam spread: >10°
- Optical reflector

MECHANICAL FEATURES

- Anodised aluminium body with heat-sink pins for maximum heat dissipation
- Policarbonate UV resistant dome
- Polyurethane foam
- Terminal JB for connection in Glass Reinforced Polyester (GRP), black colour
- Degree of protection: IP66
- Operating temperature: -20°C to +50°C
- Lamp unit weight: 1kg approx.
- Anticondensation Goretex valve
- SS304 beacon support bracket

ELECTRICAL FEATURES

- Power supply AC or DC
- Power consumption LIOL-A: 2W (for DC)
- Power consumption LIOL-B: 3W (for DC)
- Power consumption LIOL-E: 2W (for DC)
- LED feeded at costant current

OPTIONS

- TWIN version: two separate LED circuits in the same fixture (normal + stand-by)
- Automatic changeover from normal to backup light
- Fault alarm
- IR Wavelength - 850nM, compatible with pilot's NVG
- LUXSOLAR Cloud Monitoring System - Low Impact

APPLY TO

- Airport
- Stack
- High Building
- Chimney
- Tower crane
- Pipe line
- Bridge
- Transmission line
- Radio and television tower
- Wind turbine
- Wind mast measurement
- Radar
- Antenna

CERTIFICATIONS

- DGAC/STAC approval nr. 2013A048
- ENAC approval nr. 0135182/ENAC/CIA
- EASA test report (EN17025 laboratory) nr. 326-QL20-R03/R04
- CE marking

COMPLIANCE

- ICAO Aerodromes -Annex 14 Volume 1, Chapter 6: Low intensity, Type A-B steady burning obstacle light, Type E flashing obstacle light
- FAA AC150/5345-43; E.B. #67 type L-810
- EASA CS-ADR-DSN, Chapter Q

ORDERING CODE

AVIMAR ORDERING CODE	[A] = Type A >10cd Steady Burning	[B] = Type B >32cd Steady Burning	[E] = Type E >32cd Flashing	JB GRP	115Vac	230Vac	12Vdc	24Vdc	48Vdc	TWIN	"INFRA RED"	SS304 SUPPORT	"FAULT CONTACT"	"AUTO SWITCH"	"TWILIGHT SENSOR"	*READY for CLOUD
AVM.L810-AR-[...]GS6R0S	•	•		•	•	•						•				
AVM.L810-AR-[...]GS2R1T	•	•	•	•			•	•		•		•	•	•	•	•
AVM.L810-AR-[...]GS2R2T	•	•	•	•			•	•		•		•	•	•		•
AVM.L810-AR-[...]GS2R1I	•	•	•	•			•	•			•	•	•		•	•
AVM.L810-AR-[...]GS6R1T	•	•	•	•	•	•				•		•	•	•	•	•
AVM.L810-AR-[...]GS6R2T	•	•	•	•	•	•				•		•	•	•		•
AVM.L810-AR-[...]GS6R1I	•	•	•	•	•	•					•	•	•		•	•
AVM.L810-AR-[...]GS7R1T	•	•	•	•					•	•		•	•	•	•	•
AVM.L810-AR-[...]GS7R2T	•	•	•	•					•	•		•	•	•		•

*Please specify "CLOUD" at the end of the code to add an innovative monitoring technology, specifically designed to receive and upload data on customer dedicated LUXSOLAR Web Dashboard. Through this system you will be able to monitor the status of the system, receive real-time reports and diagnostic.

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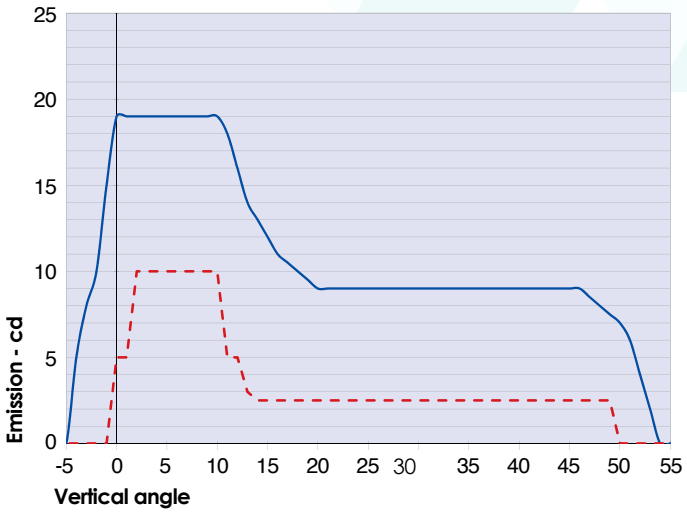
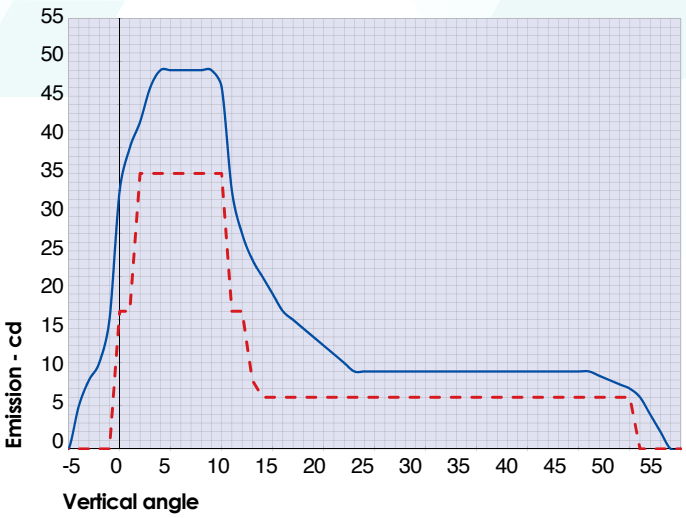
LIOL-A, LIOL-B and LIOL-E TECHNICAL SPECIFICATIONS



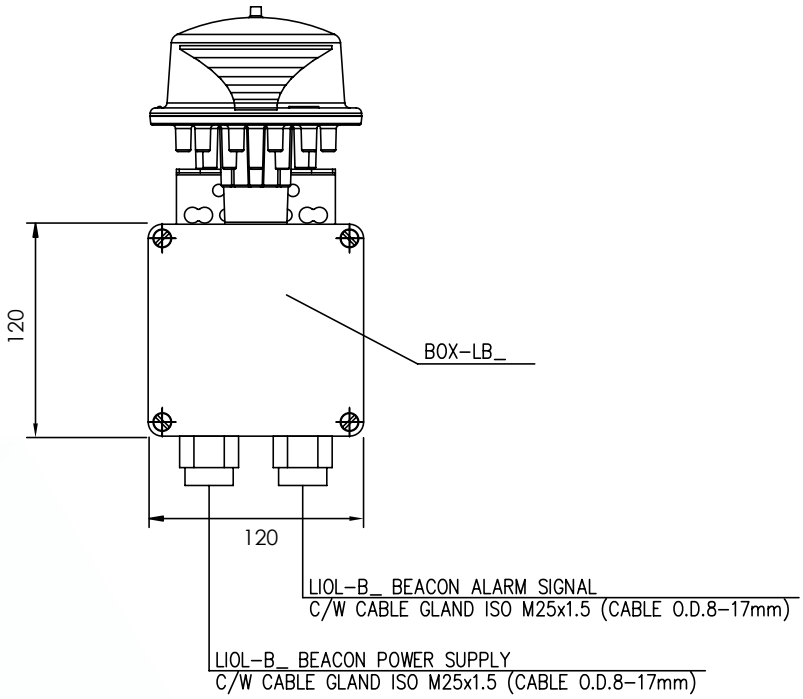
L810-LXS-A average emission level
ICAO ANNEX 14 low intensity type A Minimum Required Intensity



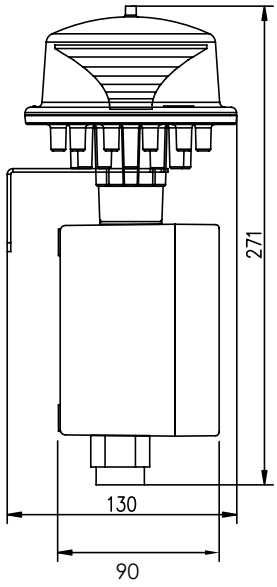
L810-LXS-B/E average emission level
ICAO ANNEX 14 low intensity type B and E Min Required Intensity

TECHNICAL DRAWING

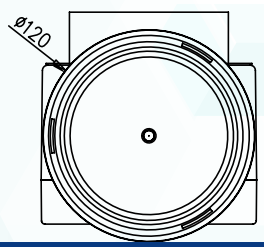
FRONT VIEW



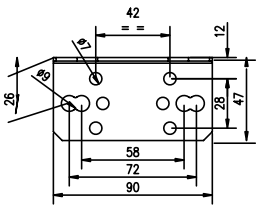
SIDE VIEW



FRONT VIEW



SIDE VIEW



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