

SP-200 LIRH SOLAR LED INSET THRESHOLD/END LIGHT

MEDIUM INTENSITY



Compliance:
ICAO Annex 14 Vol. I (7th. Edition, July 2016)



APPLICATION

Threshold/Runway End for ICAO CAT I,II and III,
FAA and military runways

TECHNICAL SPECIFICATIONS

Benefits

- 60000 hours LED rated life at full intensity, but over 100000 hours in field operating conditions
- LED lights mean lower loads, lower size of CCRs and transformers, thus low life cycle costs
- The light output is variable like a traditional halogen lamp, as indicated by the FAA "Engineering Briefing No.67"
- Colour emitted directly by LEDs: absence of coloured filters ensures no energy losses and no colour shifts
- Fully compatible with existing AFL infrastructure
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts
- No use of sealant to fix the prisms in the dome thanks to customized gaskets, making their replacement quick and easy
- No optical adjustment after LED module or prism replacement
- Valve for watertightness test after overhaul
- Operating with any topology of CCRs designed in compliance with IEC or FAA requirements

Compliances

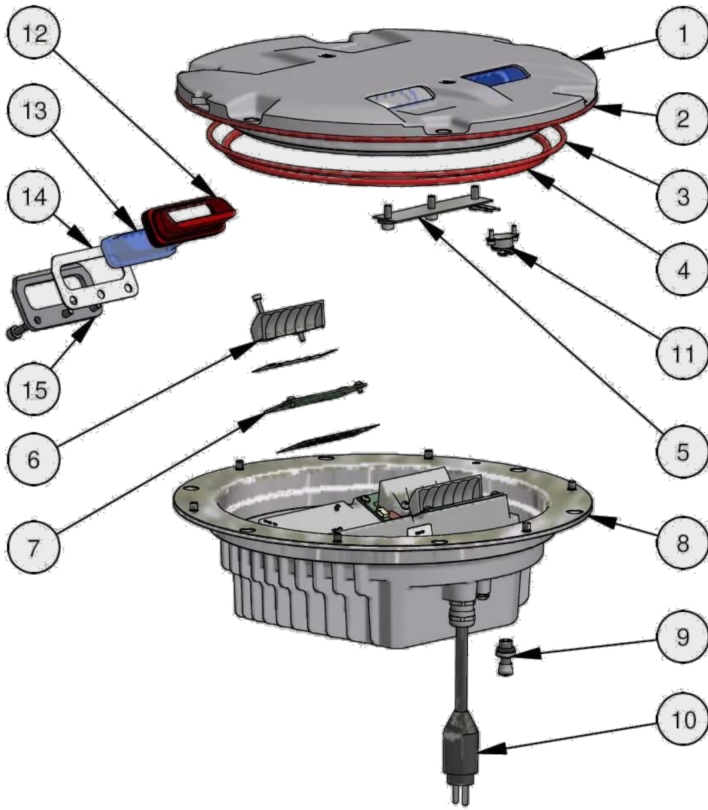
- ICAO: Annex 14 - Volume I, 8th Edition, Fig. A2-3, A2-8
- EASA: CS-ADR-DSN, Book 1, Fig. U-7 and U-12
- FAA: L-850D(L) AC150/5345-46 and EB No.67
- IEC: TS 61827
- NATO: STANAG 3316
- CAA: CAP 168
- IAAE: TP312

Installation

- Suitable for 12" dia. bases
- Specific tools available for easy and precise installation

Performance

- Light output: 1.200 candela
- Autonomy at max intensity: 10 hrs
- Solar panel lifespan: 20 years
- Protection from radio disturbances: yes
- Radio control: 3.0 km
- The electronic is strong-built and highly resistant to shock and vibration
- Automatic adaptation to the frequency of the supply current
- A surge protection device is provided in the electronics as required by the FAA "Engineering Briefing No.67"
- Immediate detection of an internal fault
- 6.35 mm protrusion strongly reduces vibrations to aircrafts and to light itself, increasing its lifetime
- Dome smooth outer profile makes the light less sensitive to snowplough blades
- Bidirectional or unidirectional, 12" dia.
- Drop-forged dome and cast aluminium lower cover make the fitting sturdy, but lightweight too for easehandling in the field
- Light output practically not affected by heavy rainfall thanks to the shallow channel in front of the prism windows
- O-Ring placed outside the dome to avoid dirt deposits between light and base
- Over charging, over discharging, overload, short circuit protection
- Tools for installation and testing are provided
- Protection from radio disturbances
- Protection degree: IP68
- Temperature range: -55°C to +55°C



- Main components of the lighting unit**
1. Dome with prisms and gaskets
 2. O-Ring for dome (external)
 3. O-Ring for dome (internal)
 4. O-Ring for lower cover
 5. Arctic Kit heater
 6. Reflector with hardware
 7. LED module with accessories
 8. Lower cover with electronic, plug and valve
 9. Valve for watertightness test
 10. FAA L-823 plug
 11. Arctic Kit thermostat
 12. Prism Gasket
 13. Prism
 14. Prism holder gasket
 15. Mounting plate

PHOTOMETRIC PERFORMANCE

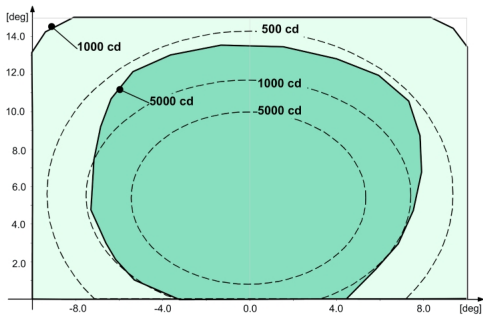


Fig. 1 ICAO A2-3 – Green

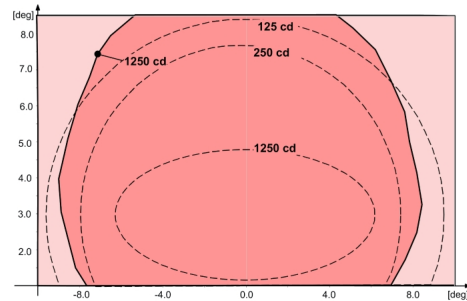


Fig. 2 ICAO A2-8 – Red

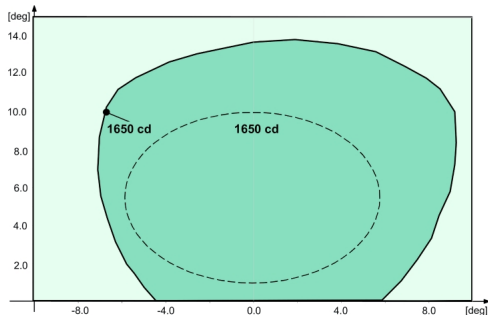


Fig. 3 FAA L-850D – Green

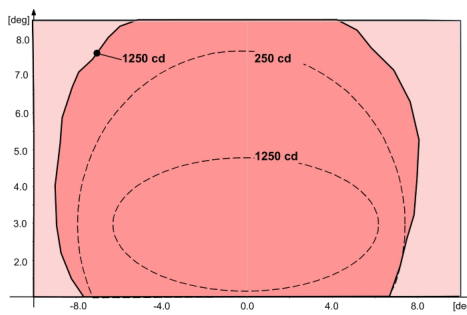


Fig. 4 FAA L-850D – Red

SHIPPING DATA

| Item | Volume | Weight |
|---------------|---------|--------|
| Lighting Unit | 0,22 m3 | 9,1 kg |
| Shallow base | 0,22 m3 | 7,3 kg |