

**LED RUNWAY CENTERLINE, TOUCHDOWN ZONE AND RETIL,
L-850A(L) AND L-850B(L), UNI AND BIDIRECTIONAL INSET LIGHT 8
INCH AND 12 INCH**

APPLICATIONS

Runway centreline for ICAO CAT I, II and III, FAA and military runways

R.E.T.I.L. ICAO and FAA RWSL, THL and RIL (L-850T) applications

BENEFITS

- 60000 hours LED rated life at full intensity, but over 100000 hours in field operating conditions
- In new installation, 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
- Fully compatible with existing AFL infrastructure "Engineering Briefing No.67"
- 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
- The 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
- For monitored fixtures, isolation transformer max size: 200VA

INSTALLATION

- Suitable for 8" dia. bases
- Adaptor ring for installation on 12" dia. bases
- Specific tools available for easy and precise installati



COMPLIANCES

ICAO: Annex 14 - Volume I Fig. A2-6, A2-7, A2-16

EASA: CS-ADR-DSN, Book 1, Fig. U-10, U-11, U-16

FAA: L-850A-B-T(L) AC150/5345-46 and EB No.67

IEC: TS 61827

NATO: STANAG 3316

CAA: CAP 168

TCCA: TP312

CASA: Manual of Standards Part 139

PERFORMANCES

- 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, 8" dia.
- Drop-forged dome and cast aluminium lower cover make the fitting sturdy, but lightweight too for ease handling 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
- Protection degree: IP68
- Temperature range: -55°C to +55°C



PHOTOMETRIC PERFORMANCES

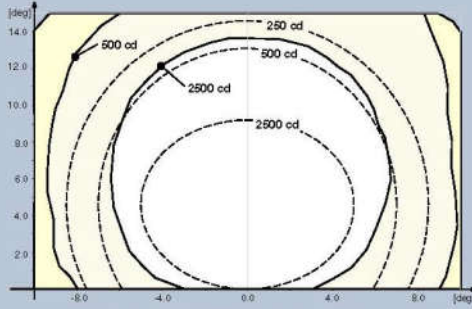


Fig. 1 ICAO A2-7 15 m - White

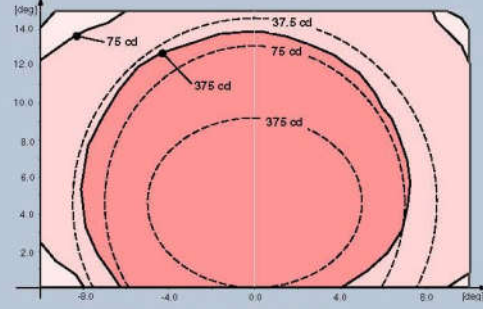


Fig. 2 ICAO A2-7 15 m - Red

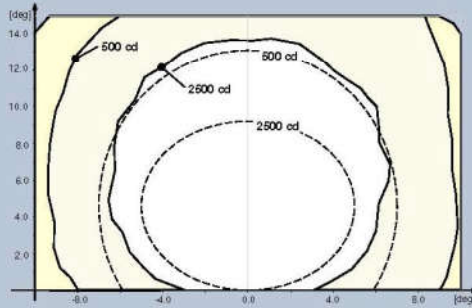


Fig. 3 FAA L-850A - White

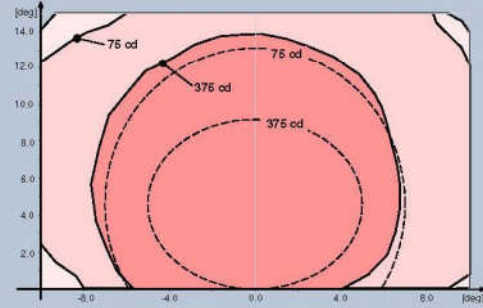


Fig. 4 FAA L-850A - Red

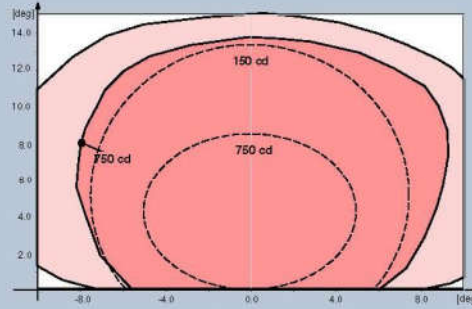


Fig. 5 FAA L-850T - Red

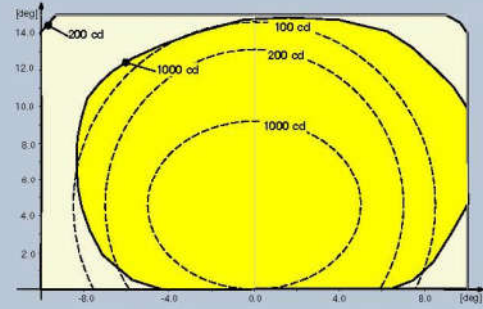


Fig. 6 ICAO A2-7 R.E.T.I.L. - Yellow

TABLES

POWER CONSUMPTION*

| Electrical system | 1 Plug | 2 Plugs |
|----------------------------------|--------|---------|
| Unidirectional (w/o Arctic Kit) | 16 VA | - |
| Unidirectional (with Arctic Kit) | 36 VA | - |
| Bidirectional (w/o Arctic Kit) | 29 VA | 32 VA |
| Bidirectional (with Arctic Kit) | 49 VA | 72 VA |

* Measured at 6.6 A and referred to the highest consumption configuration

POWER FACTOR

| Input Step | 2.8A | 6.6A |
|--------------|------|------|
| Power Factor | 0.96 | 0.98 |