

LED RUNWAY INSET LIGHT BIDIRECTIONAL 12 INCH

APPLICATIONS

Runway edge and threshold/end for ICAO CAT I/II/III, FAA and military runways

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 "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
- For monitored fixtures, isolation transformer max size: 200VA

COMPLIANCES

ICAO: Annex 14 - Volume I Fig. A2-9, A2-10

FAA: L-850C AC 150/5345-46 ve EB No.67

IEC: TS 61827

NATO: STANAG 3316

CAA: CAP 168

EASA: CS-ADR-DSN, Book 1, fig. U-13, U-14

CASA: Manual of Standard Part 139



PERFORMANCES

- The electronic is strong-built and highly resistant to shock and vibration
- Power supply via series circuit (2.8 - 6.6 A)
- 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 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

INSTALLATION

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



PHOTOMETRIC PERFORMANCES

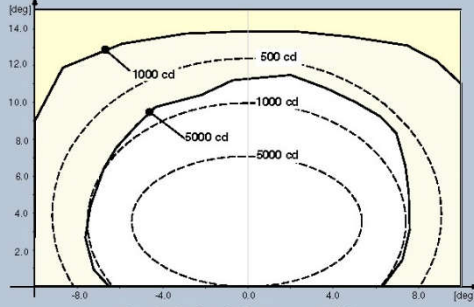


Fig. 1 ICAO A2-9 45 m – White

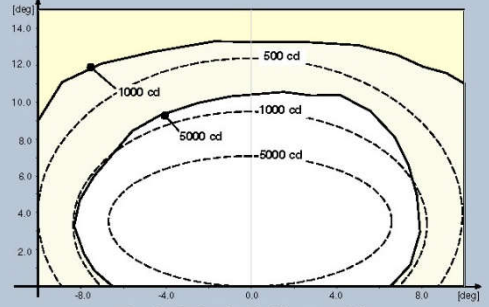


Fig. 2 ICAO A2-10 60 m – White

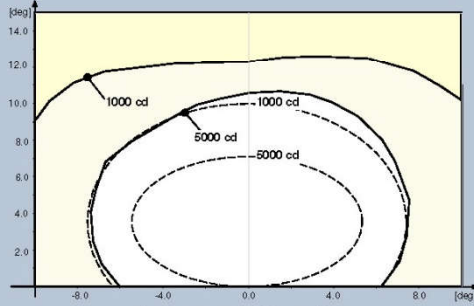


Fig. 3 FAA L-850C – White

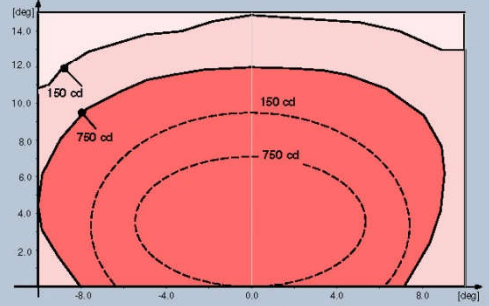


Fig. 4 FAA L-850C – Red

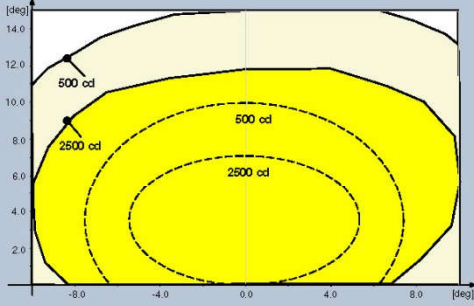


Fig. 5 FAA L-850C – Yellow

TABLES

POWER CONSUMPTION*		
Electrical System	1 Plug	2 Plugs
Unidirectional (w/o Arctic Kit)	31 VA	-
Unidirectional (with Arctic Kit)	71 VA	-
Bidirectional (w/o Arctic Kit)	65 VA	62 VA
Bidirectional (with Arctic Kit)	105 VA	142VA

* 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

