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LIRC

LED Inset Runway Centreline,
R.E.T.I.L. and Rapid Exit Taxiway Centreline Light



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*

▶ 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: -45°C to +55°C

▶ INSTALLATION

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

▶ 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-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

▶ 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 (L850-T) 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 "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,

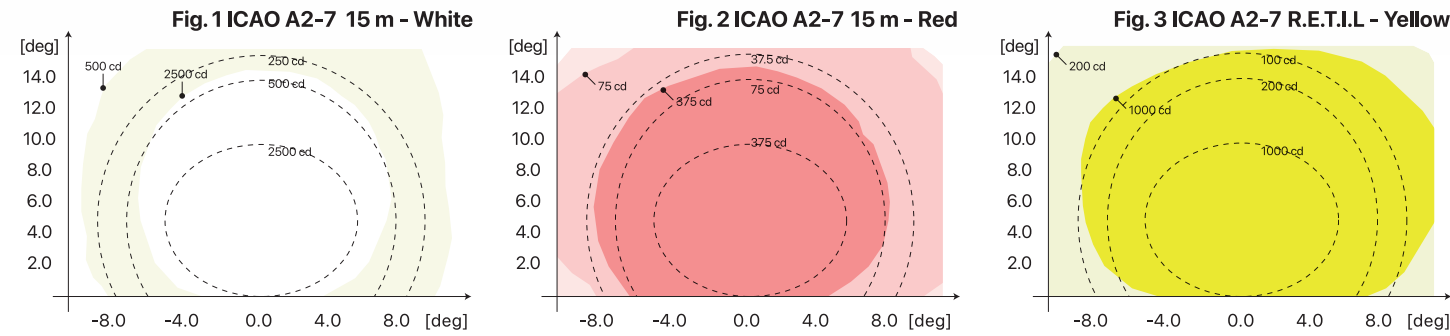
MAIN COMPONENTS OF THE LIGHT UNIT

- 1 : Dome (Upper Cover)
- 2 : O-Ring for dome
- 3 : Prism Gasket
- 4 : Prism
- 5 : Prism holder gasket
- 6 : Prism holder
- 7 : Reflector and Led Module
- 8 : Bracket
- 9 : Lower cover with electronic
- 10 : Lower cover gasket
- 11 : Gland
- 12 : Plug

**Refer to the relevant technical manual for the complete list of the available spare parts*



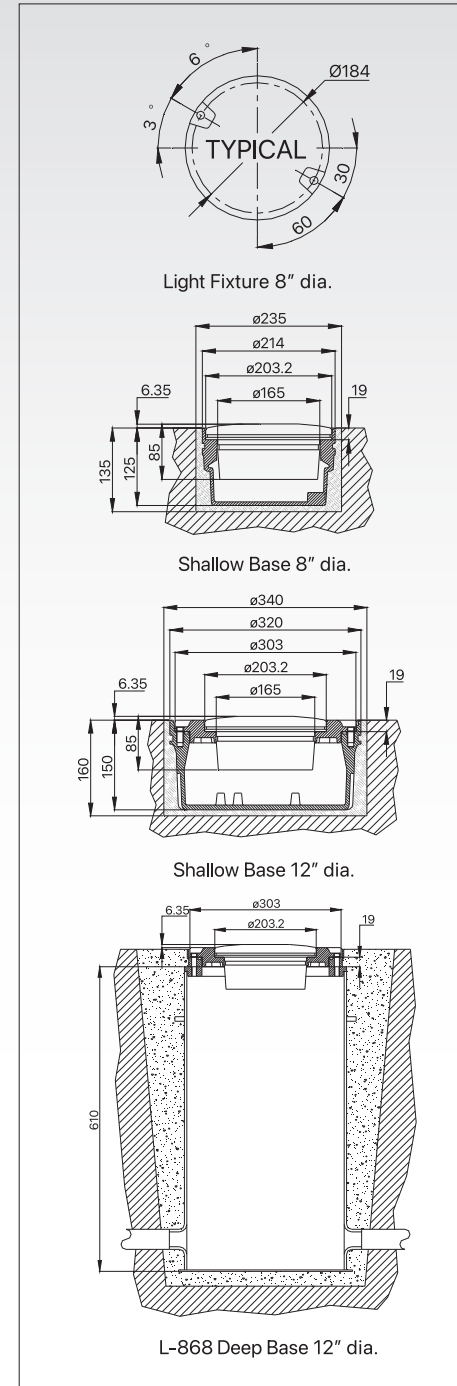
PHOMETRIC PERFORMANCE



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 AV	32 AV
Bidirectional (with Arctic Kit)	49 AV	72 AV

** 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



LIRC I WR 2P O M A

Basic P/N

Compliance

- I = ICAO
- T = Rapid Exit Taxiway Centreline

Colour(Side A)/(Side B)

- W = White
- R = Red
- Y = Yellow (R.E.T.I.L. and Rapid Exit Centreline ICAO)
- G = Green (Rapid Exit Taxiway Centreline ICAO)
- M = Blank (unidirectional dome)*

Cable and plug

- 1P = One Plug (for Shallow Base, L = 25cm)
- 2P = Two Plugs (for Shallow Base, L = 25cm)

Mounting Assembly

- O = No Mounting Assembly
- R = Adaptor Ring 12-"8" dia.

Monitoring

- O (Without Monitoring)
- M (With Monitoring)

Arctic Kit

- O = Without Arctic Kit
- A = With Arctic Kit

** The aperture not finished "M" will be always on side "B"*

SHIPPING WEIGHTS & VOLUMES			
	Light Unit	Shallow Base	Light Unit & Adaptor Ring
Weight(kg)	3.7	3.2	6.85
Volume(m³)	0.007	0.007	0.013