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LIRE

LED Inset Runway Edge Light

COMPLIANCES

ICAO	Annex 14 - Volume I Fig. A2-9, A2-10
EASA	CS-ADR-DSN, Book 1, Fig. U-13, U-14
FAA	L-850C(L) AC150/5345-46 and EB No.67
IEC	TS 61827
NATO	STANAG 3316
CAA	CAP 168
IAAE	TP312
CASA	Manual of Standards Part 139

APPLICATIONS

Runways edge for ICAO CAT I, II and 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 infrastracture*
- 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*

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, 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: -45°C to +55°C

INSTALLATION

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

LIRE LED Inset Runway Edge Light

MAIN COMPONENTS OF THE LIGHT UNIT

1 : Dome (Upper Cover)
2 : O-Ring for dome (internal)
3 : O-Ring for lower cover
4 : Prism Gasket
5 : Prism
6 : Prism holder gasket
7 : Mounting plate
8 : LED module with accessories
9 : Optical Lens
10 : Heat Sink
11 : Bracket
12 : Lower cover with electronic
13 : Valve for watertightness test
14 : Plug

PHOMETRIC PERFORMANCE

Fig. 1 ICAO A2-9-45m - White

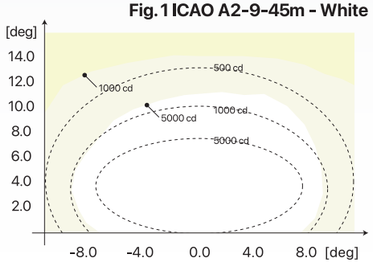
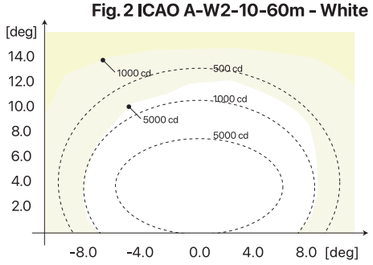


Fig. 2 ICAO A-W2-10-60m - White



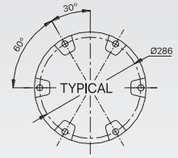
POWER CONSUMPTION*		
Electrical System	**1 Plug**	**2 Plugs**
Unidirectional (w/o Arctic Kit)	31 VA	-
Unidirectional (with Arctic Kit)	71 VA	-
Bidirectional (w/o Arctic Kit)	65 VA	62 VA
Bidirectional (with Arctic Kit)	105 VA	142 VA

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

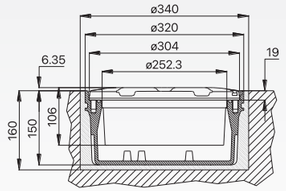
POWER FACTOR		
Input Step	2.8A	6.6A
Power Factor	0.96	0.98

SHIPPING WEIGHTS & VOLUMES		
	Light Unit	**Shallow Base**
Weight(kg)	9.1	7.3
Volume(m^3)	0.022	0.022

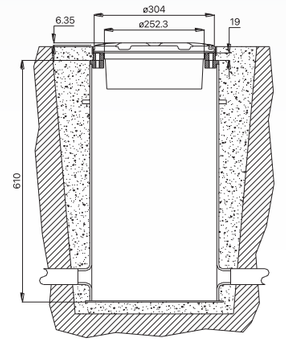
LIRE LED Inset Runway Edge Light



Light Fixture 12" dia.



Shallow Base 12" dia.



L-868Deep Base 12" dia.

LIRE I WY 2P M A

Basic P/N

Compliance
I = ICAO

Colour(Side L)/(Side R)
W = White
Y = Yellow
R = Red
M = Blank (unidirectional dome)

Arctic Kit
0 = Without Arctic Kit
A = With Arctic Kit

Monitoring
0 = Without Monitoring
M = With Monitoring

Cable and connectors
1P = One Plug
2P = Two Plugs

* The beam aiming is not field adjustable