LRED04

LED INSET RUNWAY EDGE LIGHT

COMPLIANCES

FAA: L-850C(L) AC150/5345-46 and EB No.67
ICAO: Annex 14 - Volume I Fig. A2-9, A2-10
IEC: TS 61827
NATO: STANAG 3316
CAA: CAP 168
IAAE: TP312

APPLICATIONS

Runways edge for FAA, ICAO, CAT I, II, and III and military runways

BENEFITS

- 60,000 hours LED rated life at full intensity, but over 100,000 hours in field operating conditions
- In new installation, LED lights mean smaller loads, smaller CCRs and transformers, thus lower life cycle costs
- The light output varies like a traditional halogen lamp, as required by the FAA “Engineering Briefing No.67”
- The Color is emitted directly by LEDs: no colored filters ensures no energy losses and no color shifts
- Fully compatible with existing AFL infrastracture*
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts
- A customized gasket makes prism replacement quick and easy.
- LED module or prism replacement requires no optical adjustment
- A Pressure Valve is provided for water tightness testing after overhaul
- Operates with any type of CCR designed in compliance with FAA or IEC requirements

* For monitored fixtures, isolation transformer max size: 200VA

PERFORMANCES

- The electronics are built tough and highly resistant to shock and vibration
- Compatible with 50 or 60 Hz the supply current
- Surge protection is provided to protect the electronics as required by the FAA “Engineering Briefing No.67”
- Immediate internal fault detection
- Meer 0.25” (6.35 mm) protrusion above the pavement reduces vibrations to aircrafts and to the fixture itself, increasing its life expectancy
- The smooth outer Dome profile makes the light less susceptible to snowplough blades
- Bidirectional or unidirectional, 12" dia.
- The aluminium forged dome and die cast lower cover make the fixture sturdy, but lightweight for easier handling in the field
- Heavy rainfall has little effect on Light output thanks to the shallow channel in front of the prism windows
- An O-Ring is provided to avoid dirt deposits between the fixture and base
- Protection degree: IP67
- Temperature range: -55°C to +55°C

INSTALLATION

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

Multi Electric Mfg., Inc.
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PHOTOMETRIC PERFORMANCES

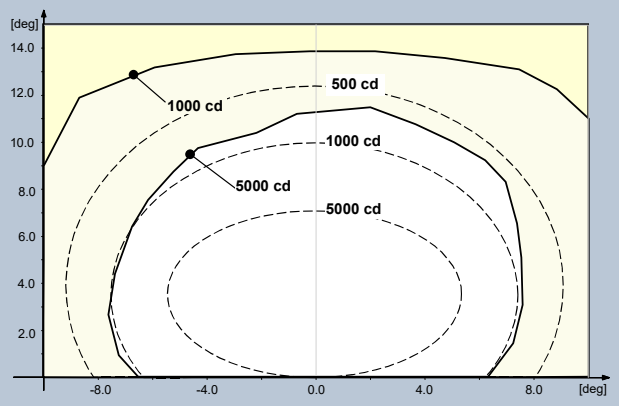

Fig. 1 ICAO A2-9 45 m – White

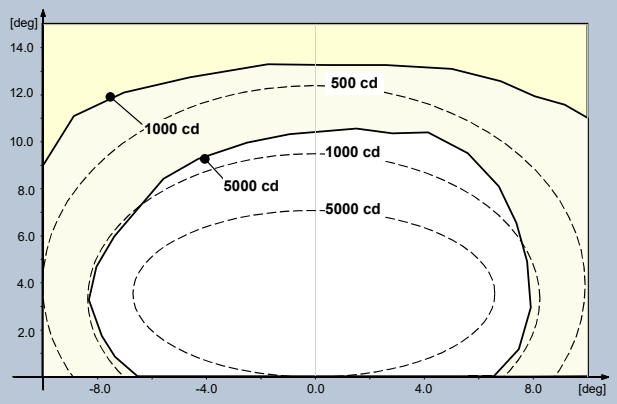

Fig. 2 ICAO A2-10 60 m – White

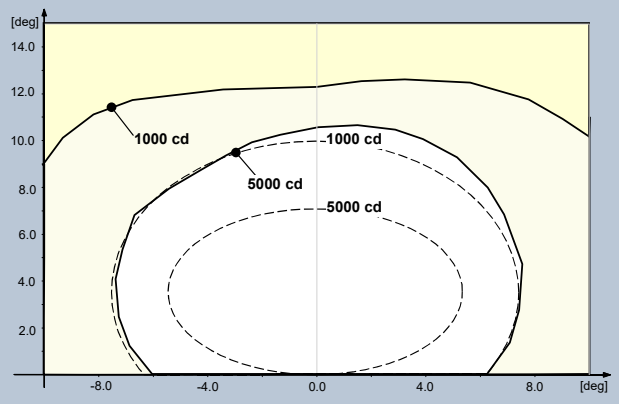

Fig. 3 FAA L-850C – White

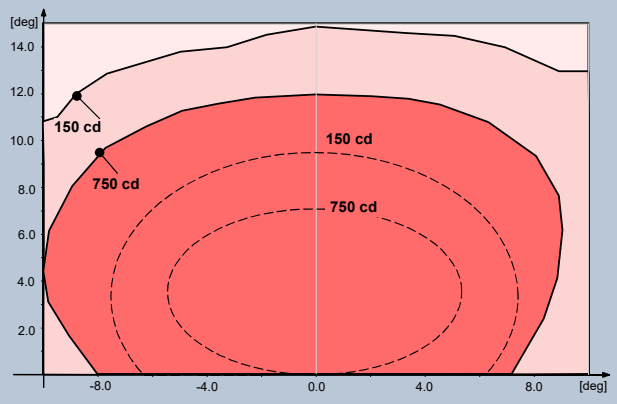

Fig. 4 FAA L-850C – Red

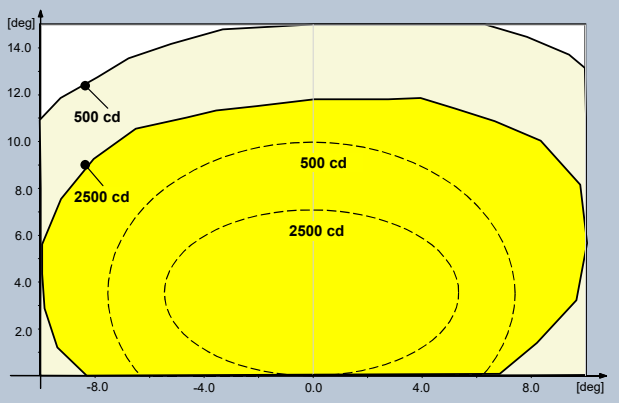

Fig. 5 FAA L-850C – Yellow

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

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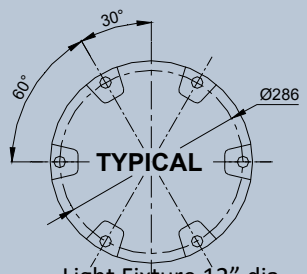
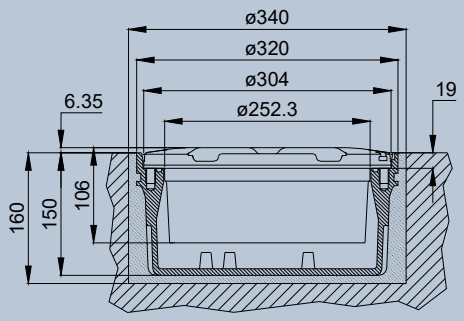
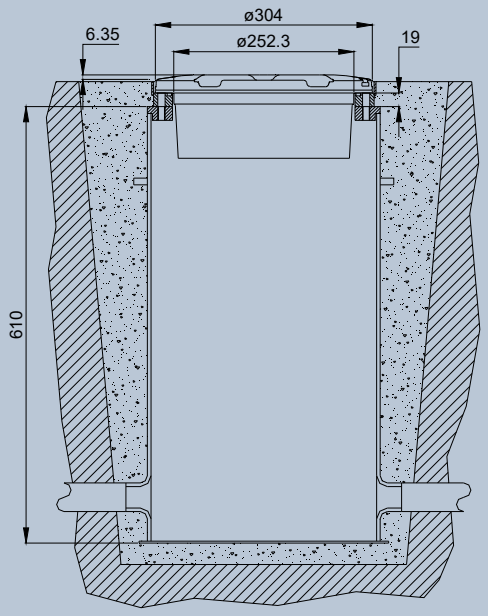


Light Fixture 12” dia.



Shallow Base 12” dia.



L-868 Deep Base 12” dia.

LRED04- F - WY - 2P - M - A

Basic P/N:

Compliance:
I = ICAO 60 m
S = ICAO 45 m
F = FAA

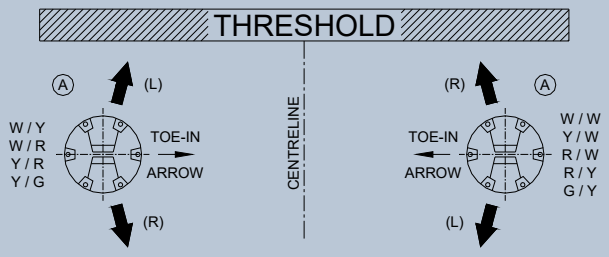
Color(Side B)/(Side A):
W = White
Y = Yellow
G = Green (FAA)
R = Red
S = Screened
M = Blank (unidirectional dome)

Electrical System:
1P = One Plug
2P = Two Plugs

Monitoring:
0 = Without Monitoring
M = With Monitoring

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

* The beams aiming is not field adjustable



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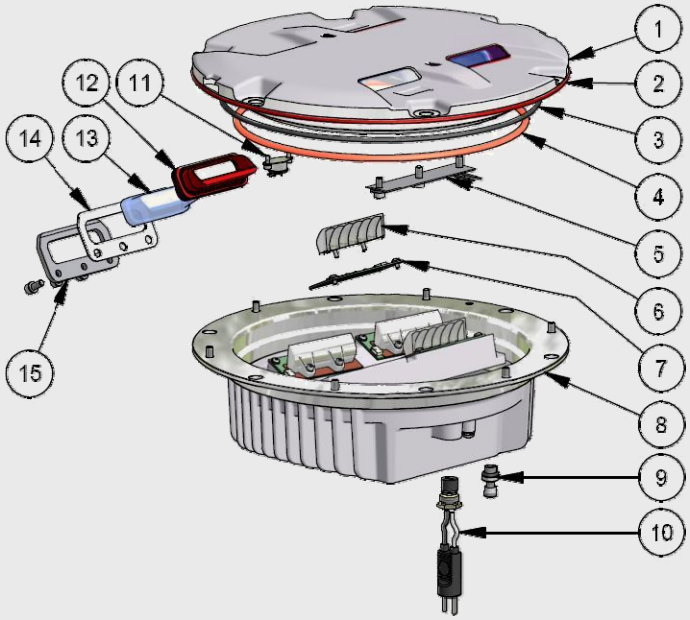
RENEWAL PARTS FOR LIGHT UNIT:

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

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



Shipping Weights and Volumes		
	Light Unit	**Shallow base**
Weight Lbs (kg)	20 (9.1)	16 (7.3)
Volume Ft^3 (m^3)	0.78 (0.022)	0.78 (0.022)

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