

LED Elevated Runway Edge and Threshold/End Light (LERE)

Compliance

- FAA: L-862-E(L) AC150/5345-46 and EB No.67
- ICAO: Annex 14 - Volume I Fig. A2-3, A2-8, A2-9, A2-10, par. 5.3.9.8 e 5.3.9.9
- IEC: TS 61827
- NATO: STANAG 3316
- CAA: CAP 168
- TCCA: TP312
- EASA: CS-ADR-DSN, Book 1, fig. U-13, U-14, U-7, U-12
- CASA: Manual of Standard Part 139

Applications

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

Benefits

- 60,000 hours LED rated life at full intensity, but over 100,000 hours in field operating conditions.
- In new installations, LED lights mean smaller loads, smaller CCRs and transformers, thus lower life cycle costs.
- Light output is variable like a traditional halogen lamp, as indicated by FAA "Engineering Briefing No.67".
- Colors are produced by LEDs: no colored filters ensures no energy losses and no color shifts.
- Fully compatible with existing AFL infrastructure (for monitored fixtures, isolation transformer max size: 150 VA).
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts.
- Customized gasket for glass cover to avoid the use of sealing compound.
- No optical adjustment after LED module or prism replacement.
- Compatible with CCRs designed in compliance with IEC or FAA requirements.

Technical Features

- Rugged electronics built tough for high resistance to shock and vibration.
- Power supply via series circuit (2.8 - 6.6 A).
- Automatic adaptation to the 50 or 60 Hz frequency of the supply current.
- Surge protection device is provided to protect the electronics as required by FAA "Engineering Briefing No.67".
- Continuous internal fault detection.
- Bidirectional runway edge lights include "Circular Guidance".
- Optional fixed brightness "Circular Guidance" for white and amber lights.



- Lightweight and sturdy due to aluminum die-castings.
- Powder coat finish provides durable corrosion resistance.
- Fixture leveling provided using four external screws.
- Smaller profile improve jet blast resistance.
- IP67 protection.
- Temperature range: -55°C (-67°F) to +55°C (131°F).

Installation

- Fixture can be installed on pipe elbow, stake or baseplate.
- Specific tools available for easy and precise installation.

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PHOTOMETRIC PERFORMANCE

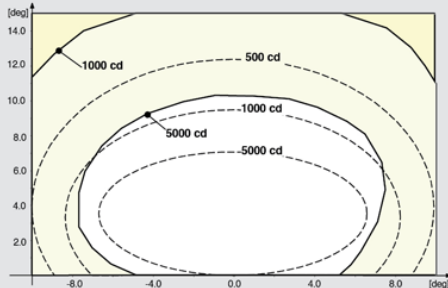


Figure 1 - ICAO Fig. A2-10 60 m - White

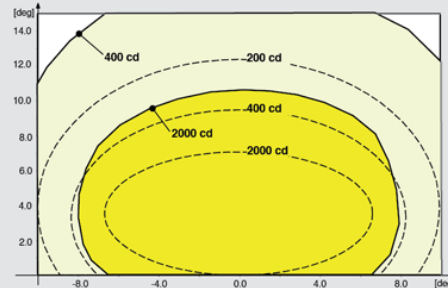


Figure 2 - ICAO Fig. A2-10 60 m - Yellow

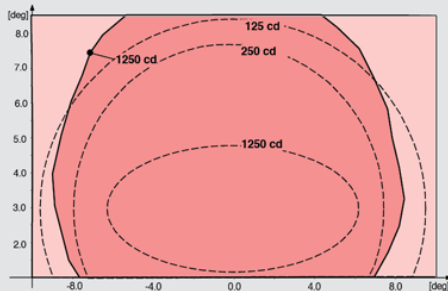


Figure 3 - ICAO Fig. A2-8 - Red

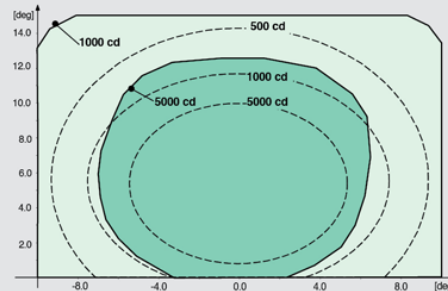


Figure 4 - ICAO Fig. A2-3 - Green

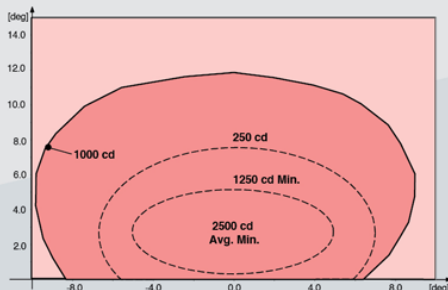


Figure 5 - FAA L-862E - Red

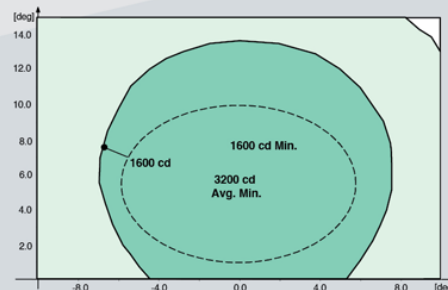


Figure 6 - FAA L-862E - Green

POWER CONSUMPTION (maximum value among all fixture configurations)

Power Factor > 0.98	Primary conductor isolation transformer		Fixture	
w/o Arctic kit	42.0 W	42.4 VA	31.7 W	32.1 VA
with Arctic kit	57.7 W	57.9 VA	50.1 W	50.4 VA

TECHNICAL DRAWING

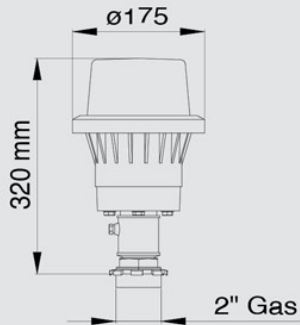


Figure 7 - Overall Dimensions

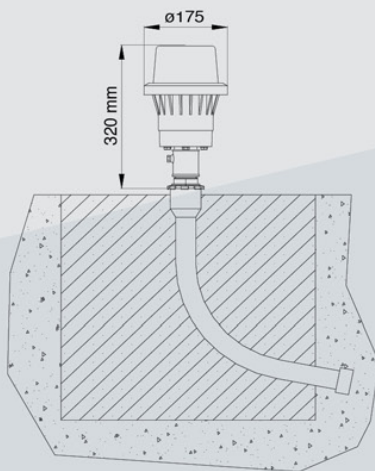


Figure 8 - Pipe Elbow

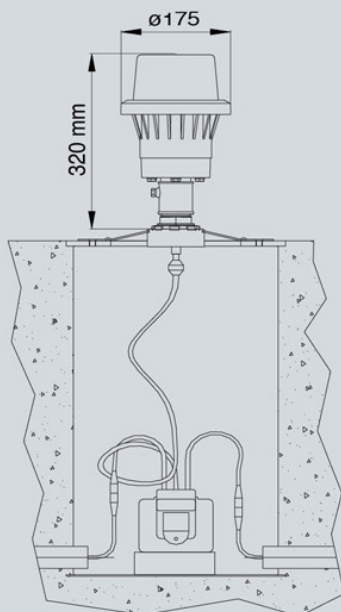


Figure 9 - FAA L-867 Deep Base and Base Plate

PART NUMBER IDENTIFICATION

LERE - F - T - WR - 14 - C - M - A - CG

Basic P/N: _____

Compliance: _____

S = ICAO 45 m Runway edge and Threshold/Runway end
I = ICAO 60 m Runway edge
F = FAA

Use: _____

T = Threshold
E = Edge

Color (Side L / Side R)*: _____

W= White
Y = Yellow
R = Red
G = Green (NO Runway edge ICAO)

Height: _____

00= Without pole (only I and S compliance)**
14= 14" total height
20= 20" total height
24= 24" total height
30= 30" total height

Breakable coupling**:

A = 1" 1/2 - 12 UNF (for 14" to 30" height)
B = 2" - 11 1/2 NPS (for 14" to 30" height)
C = 2" - 11 GAS*** (mandatory for 00" height)
D = 2" - 11 GAS*** (for 14" to 30" height)

Monitoring: _____

O = Without Monitoring
M = With Monitoring

Arctic Kit: _____

O = Without Arctic Kit
A = With Arctic Kit

Options: _____

CG= With circular guide component with fixed brightness (only W* and Y** colors)

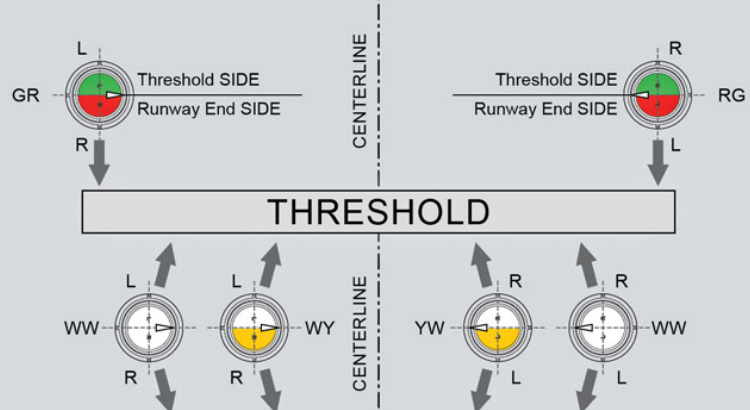
(*) The beam aiming is not field adjustable

(**) Breakable couplings mate with 1" EMT pole

(***) Not define by FAA

(*) White >30 cd of 2.8 A | >50 cd from 4.1 to 6.6 A

(**) Yellow >15 cd of 2.8 A | >50 cd only 6.6 A





RENEWAL PARTS FOR LIGHT UNIT

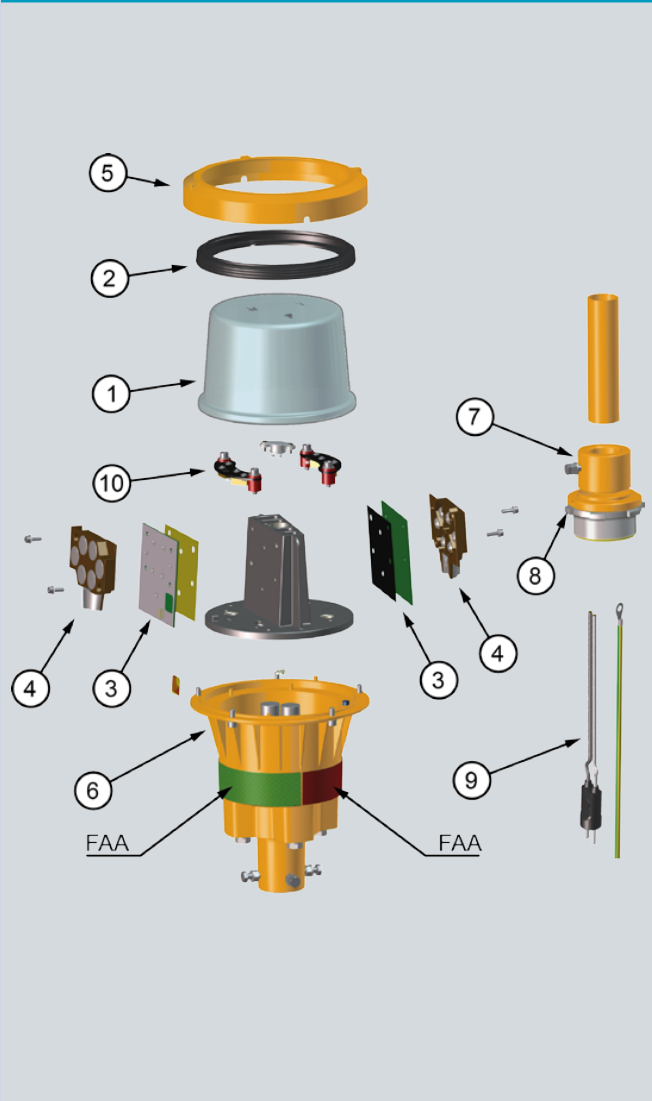
No.	Description	Qty
1	Clear outer cover.....	1
2	Gasket for glass cover.....	1
3	LED module	1-2
4	Lens array.....	1-2
5	Glass cover locking ring	1
6	Body with electronic and plug.....	1
7	Breakable coupling.....	1
8	Ring nut (ICAO versions)	1
9	FAA L-823 plug.....	1
10	Arctic kit (FAA version).....	1-2

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

ACCESSORIES

013.0008	Galvanized steel pipe elbow with upper threaded end only (2" - 11 GAS thread).
315.3210	Galvanized steel pipe elbow with both threaded ends (2" - 11 GAS thread).
013.0010	Set of two ryton rings for receptacle support inside pipe elbow.
315.1228	Base L-867, Class IA, Size B, 24" Deep.
315.1062	Baseplate for L-867 base with gasket and cable clamp (2"-11 GAS thread).
315.1063	Baseplate for L-867 base with gasket and cable clamp (2" - 11 1/2 NPS thread).
315.1082	Baseplate for L-867 base with gasket and cable clamp (1"1/2 - 12 UNF thread).
332.4556	Levelling device.

EXPLODED VIEW DRAWING



For information about isolating transformers and connectors, please see the specific catalogue pages.

SHIPPING WEIGHTS AND VOLUMES

	Light unit
Weight [lbs (kg)]	11 (5.0)
Volume [ft³ (m³)]	0.56 (0.016)