

LED Elevated Runway Edge and threshold/end light Component Improved



ELEVATED LED RUNWAY EDGE RUNWAY THRESHOLD RUNWAY END

New generation high intensity elevated LED fixture for IFR instrument runways, for bidirectional emissions (with 360° guidance system) and unidirectional, with adjustable height and with non-flashing light for runway edge, runway threshold, runway end.

COMPLIANCE

Annex 14 - Volume I (Paragraph 5.3.9.8/9)	ICAO
AC150/5345-46, EB67 (L-862 E(L)) compliance currently NOT certified	FAA
TS 61827	IEC
Stanag 3316	NATO
CAP 168	CAA
TP312	TCAA
Airport Construction Regulation	ENAC
CS-ADR-DSN - Volume I (figures U-13, U-14, U-7, U-12)	EASA
Manual of Standards Part 139	CASA

ocem



APPLICATIONS

Runways: ICAO CAT I, II and III, FAA (IFR precision instrument), militar.

Runway edge: FAA AC150/5345-46 L-862, ICAO up to 45 m, ICAO up to 60 m.

Runway threshold: FAA AC150/5345-46 L-862, L-862E, ICAO up to 45 m.

Runway end: FAA AC150/5345-46 L-862E, ICAO up to 45 m.

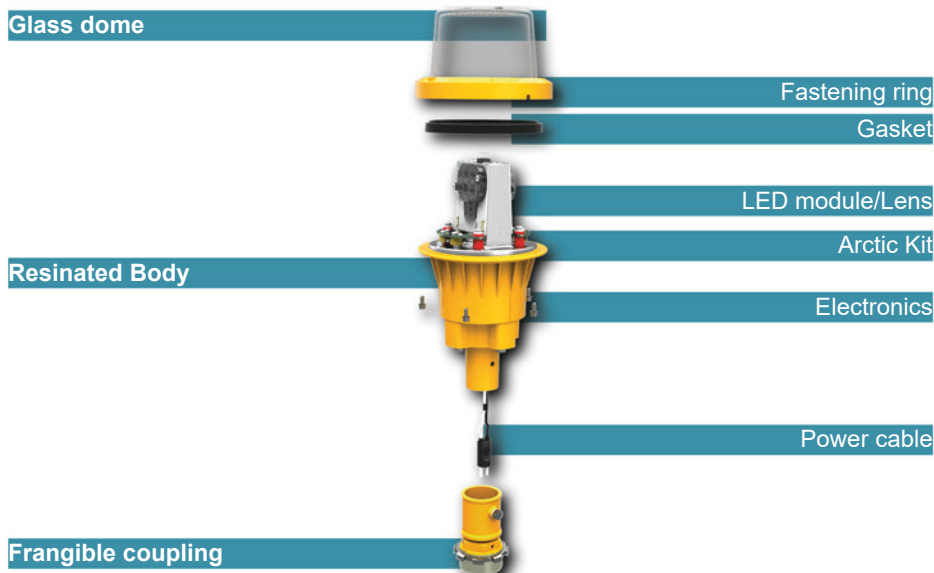
CHARACTERISTICS

- Degree of mechanical protection IP67: the gasket of the dome does not require sealants.
- Operational temperature range admitted: between -55 °C and +55 °C (between -67 °F and +131 °F).
- Average life of LED: 60.000 h at maximum intensity; 100.000 h under normal operating conditions.
- Lower consumption compared with the traditional fixtures: lower loads, CCRs and lower-powered transformers.
- Variable light emission: in accordance with the ICAO standard (Fig. A2-8, A2-9, A2-10) and FAA EB67.
- Colorimetric coordinates constant over time.
- High degree of compatibility with the existing airport installations (for monitored fixtures, maximum size of the transformer: 150 VA).
- Low maintenance coefficient: fixtures designed with high modularity and minimal maintenance required over time and common spare parts for all the configurations.
- Absence of adjustments: the light sources are preconfigured and do not require adjustments.
- Easy to install, with alignment screws reachable externally.
- Usable with any type of constant current regulator realized in compliant with the rules FAA or IEC.
- Available in version with component of circular guide at fixed luminosity: with white light modules >30 cd from 2.8 A and >50 cd from 4.1 to 6.6 A; with yellow light modules >15 cd from 2.8 A and >50 cd only 6.6 A).

PERFORMANCE

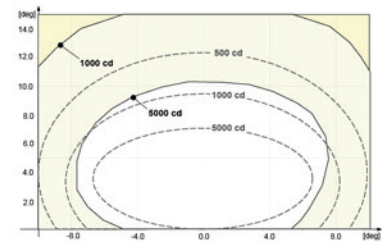
- Electronics resistant to vibrations.
- Automatic adaptation to the frequency of the supply current (50-60 Hz / 2.8-6.6 A).
- Equipped with surge protective device (FAA EB67).
- Immediate detection of an internal fault.

STRUCTURE & OPTIONS

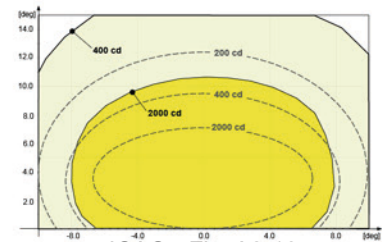


For spare parts refer to the user manual and to the spare parts catalogue.

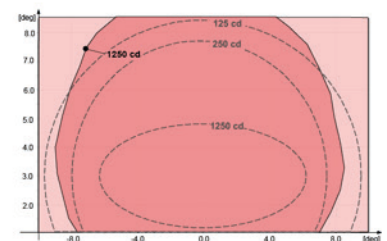
PHOTOMETRY



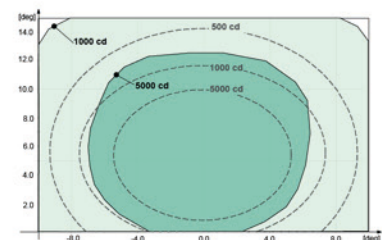
ICAO - Fig. A2-10
60 m (White)



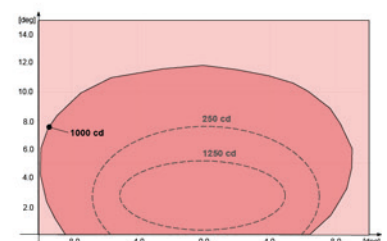
ICAO - Fig. A2-10
60 m (Yellow)



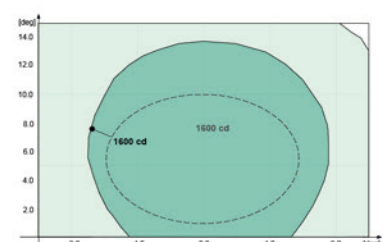
ICAO - Fig. A2-8
(Red)



ICAO - Fig. A2-3
(Green)



FAA - L-862E
(Red)



FAA - L-862E
(Green)

LED Elevated Runway Edge

Component Improved

HOW TO ORDER

example: LERE F - E - WR - 14 - C - M - 0 - 0 - C	
Standard	
F = FAA (compliance currently not certified)	
S = ICAO (45 m)	
I = ICAO (60 m) *	
Use	
E = Runway edge	
T = Threshold/Runway end	
Colour (L left-R right)¹	
Use (T) Threshold/End	(E) Runway edge
GR = Green-Red	WW = White-White
RG = Red-Green	YW = Yellow-White
MG = Green (Unidir. R)	WY = White-Yellow
GM = Green (Unidir. L)	MW = White (Unidir. R)
MR = Red (Unidir. R)	WM = White (Unidir. L)
RM = Red (Unidir. L)	MY = Yellow (Unidir. R)
	MW = Yellow (Unidir. L)
	MG = Green (Unidir. R) (only FAA)
	GM = Green (Unidir. L) (only FAA)
	MR = Red (Unidir. R)
	RM = Red (Unidir. L)
	YG = Yellow-Green (only FAA)
	GY = Green-Yellow (only FAA)
	YR = Yellow-Red
	RY = Red-Yellow
	WR = White-Red
	RW = Red-White
Height	
00 = Without pole (only ICAO)	
14 = Pole height 14" [355 mm]	
20 = Pole height 20" [508 mm]	
24 = Pole height 24" [609 mm]	
30 = Pole height 30" [762 mm]	
Frangible coupling	
A = 1" 1/2 - 12 UNF ** (only FAA)	
B = 2" - 11 1/2 NPS ** (only FAA)	
C = 2" - 11 GAS ***	
D = 2" - 11 GAS (in snow areas, with pole EMT) (only ICAO)	
Monitoring option	
0 = Without monitoring	
M = With monitoring	
Arctic kit option	
0 = Without arctic kit	
A = With arctic kit	
Circular guide option at fixed luminosity²	
0 = Without circular guide	
CG = With circular guide (only W and Y colours)	
Component improved	

* Compatible only with E use (runway edge)

** forced coupling with FAA fixtures (Regulations: F) of height 14-30

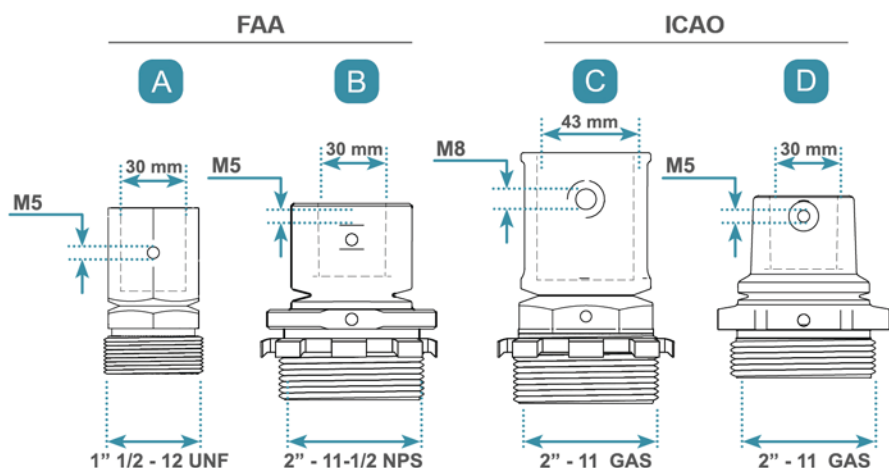
*** Forced coupling with ICAO fixtures (Regulations: I, S) without pole (height: 00)

¹ Attention: the light beams aiming is not field adjustable

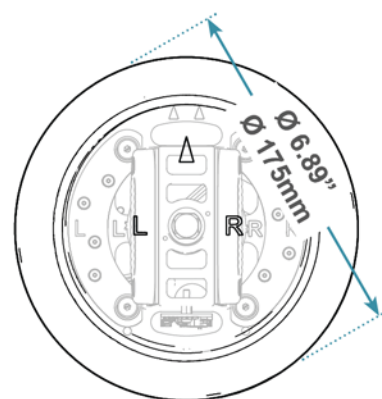
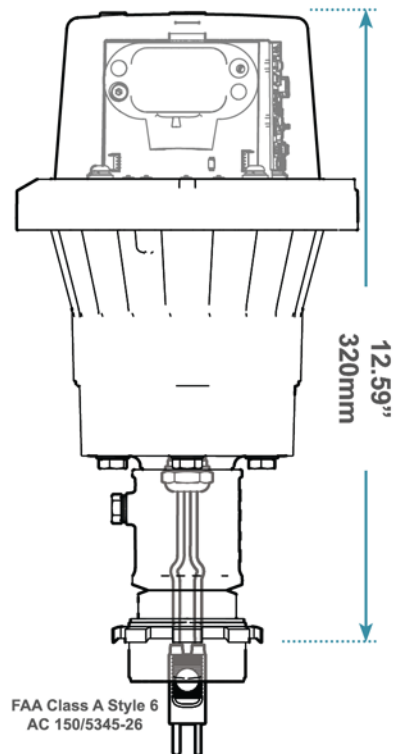
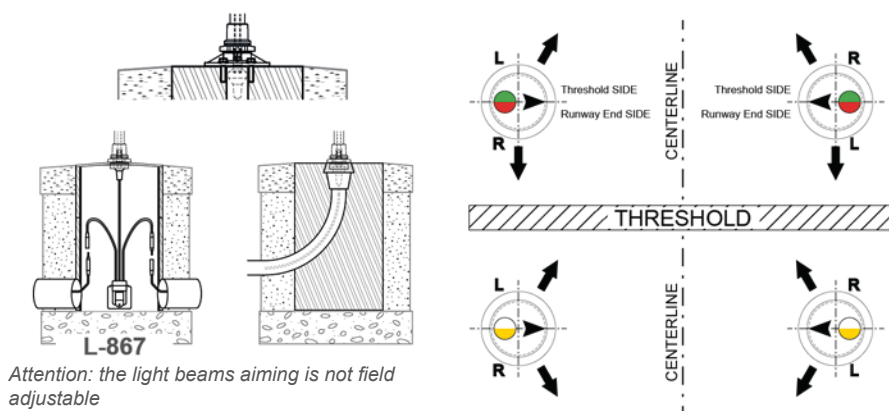
² Attention: not defined by FAA

In the example **LERE F - E - WR-14-C - M - 0 - 0 - C**: High intensity elevated LED fixture, LERE-C model compliant with standard FAA (compliance currently not certified) for edge end use, White (left) and red (right) lamps. System equipped with pole for total fixture height 14". Coupling by means of frangible coupling for pipes 2" and thread 11 GAS. Fixture equipped with optional monitoring system. Arctic kit not present. Circular guide not present.

COUPLING SYSTEM



INSTALLATION EXAMPLE



ITEM PACKAGE

	LERE
Weight (kg)	5.0
Volume (m³)	0.016

POWER FACTOR

	2.8 A	6.6 A
Without Arctic Kit	0.99	0.98
With Arctic Kit	0.99	0.99

POWER CONSUMPTION (WORST CASE)*

	Primary Conductor isolation transformer		Fixture	
Without Arctic Kit	49.8 VA	48.9 W	38.1 VA	37.4 W
With Arctic Kit	60.8 VA	60.6 W	49.1 VA	48.8 W

* Measured at 6,6 A with toroidal isolation transformer 65 W. The value reported refers to the minimum value between the configurations and the available options (worst case - CG option included).

ACCESSORY ARTICLES

Code	Description	Features
013.0008	Pipe elbow	Zinc-coated steel pipe elbow (threaded upper entrance 2" - 11 GAS)
315.3210	Pipe elbow	Zinc-coated steel pipe elbow (both threaded entrances 2" - 11 GAS)
013.0010	Ryton ring	2 ring set (ryton) for socket support (within pipe elbow)
315.1228	Deep base	Base FAA L-867 (Class IA, size B) depth: 610 mm ("24")
315.1062	Base plate L-867	Base plate for base L-867, with threaded sleeve 2" - 11 GAS (complete with gasket and socket support plate)
315.1063	Base plate L-867	Base plate for base L-867, with threaded sleeve 2" - 11 1/2 NPS (complete with gasket and socket support plate)
315.1063	Base plate L-867	Base plate for base L-867, with threaded sleeve 1" 1/2 - 11 UNF (complete with gasket and socket support plate)
332.4556	Optical orientation system	Tool for installation LERE

The Manufacturer reserves the right to modify or update the technical parameters at any time without prior notice to Customer.

