

Led Elevated Runway Approach

threshold,
threshold wing bar and
runway end light



ELEVATED LED FIXTURE

APPROACH THRESHOLD WING BARS RUNWAY END

New generation high intensity elevated LED fixture, for unidirectional emissions and with fixed light in the approach flash signalling, for the purpose of providing visual guidance to landing and take-off aircrafts.

COMPLIANCE

Annex 14 - Volume I
(Fig. A2-1, A2-2, A2-3, A2-4, A2-8, A2-12) **ICAO**

AC150/5345-46 (L-862 S) **FAA**

TS 61827 **IEC**

Stanag 3316 **NATO**

CAP 168 (GB) **CAA**

TP312 (CDN) **TCAA**

Airport Construction Regulation **ENAC**

CS-ADR-DSN - Volume I
(figures U-5, U-6, U-7, U-8, U-12) **EASA**

Manual of Standards Part 139 (AUS) **CASA**

ocem



ocem.com

APPLICATIONS

Runways: ICAO CAT I, II and III, FAA, militar applications.

Approach: ICAO A2-1 (W) and A2-2 (R).

Runway threshold: FAA AC150/5345-46 L-862E, ICAO A2-3 (G).

Wing bars: ICAO A2-4 (G).

Runway end: FAA AC150/5345-46 L-862E, ICAO A2-8 (R).

Traffic routes: ICAO.

Stop bars: ICAO A2-12.

CHARACTERISTICS

- Degree of mechanical protection IP67: the front glass does not require sealants and is held in position by a glazing plate and a dedicated gasket.
- 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. AA-1, A2-2, A2-3, A2-4, A2-8, A2-12) and FAA EB67.
- Colorimetric coordinates constant over time: colour emitted directly from the LEDs, without the use of coloured filters.
- 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 body equipped with support for the correct and accurate pointing of the fixture (horizontal and vertical).
- Usable with any type of constant current regulator realized in compliant with the rules FAA or IEC.

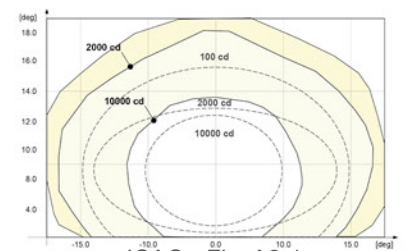
PERFORMANCE

- 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.

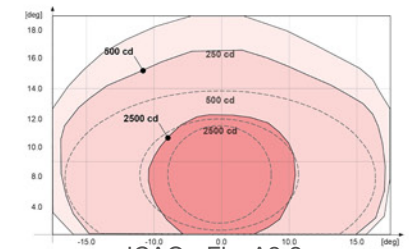
STRUCTURE & OPTIONS



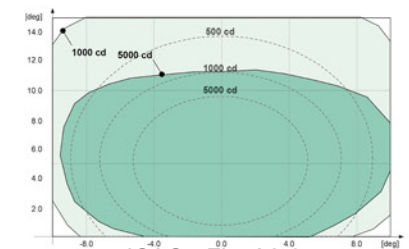
PHOTOMETRY



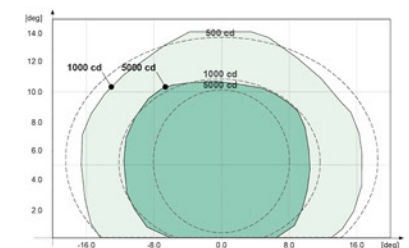
ICAO - Fig. A2-1
(White)



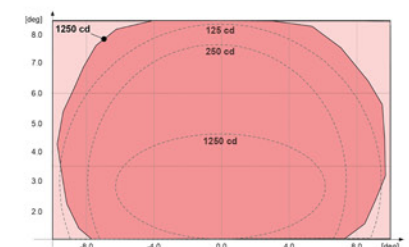
ICAO - Fig. A2-2
(Red)



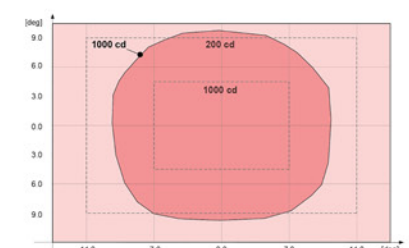
ICAO - Fig. A2-3
(Green)



ICAO - Fig. A2-4
(Green)



ICAO - Fig. A2-8
(Red)



FAA - L-862S
(Red)

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

HOW TO ORDER

example: LERA TG - P - 001 - 0 - A	
Use [Colour]	
AC = Axis and bar approach [White]	
AR = Side approach bars [Red]	
TG = Threshold [Green]	
WG = Wing bars [Green]	
ER = Runway end [Red]	
SB = Stop bar (FAA) [Red]	
BA = Stop bar ICAO [Red]	
Configuration	
P = Fixture complete with frangible coupling*	
C = Fixture without frangible coupling**	
Assembly	
(P) With coupling	(C) Without coupling
001 = Complete fixture	000 = without cable
	050 = with cable (0,50 m)
	250 = with cable (2,50 m)***
Monitoring option	
0 = Without monitoring	
M = With monitoring	
Arctic kit option	
0 = Without arctic kit	
A = With arctic kit	

* Fixture equipped with special support, frangible coupling and cable with bipolar plug (L-823)

** Fixture equipped with special support. Support pole and frangible coupling that can be ordered separately

*** Cable length available only for AC use (axis and bar approach) and AR (side approach bars)

In the example **LERA - TG - P-001 - 0 - A**: High intensity elevated LED fixture, LERA model configured for threshold use. Unidirectional fixture with green colour lamps. Complete system, equipped with special support, frangible coupling and cable with bipolar plug (L-823). Fixture not equipped with optional monitoring system. Arctic kit present.

INSTALLATION ON POLE

All fixtures installed on the pole (C configuration) are supplied without pole and without any frangible coupling. Installation elements must be ordered separately.

The fixtures installed on the frangible coupling (ex. approach bars, side approach bars, stop bars) are supplied without pole and without frangible coupling (only with special support).

The aluminium pole (Ø 60 mm) is available in standard length versions from 0.15 to 2.0 m. The pole can be cut to size according to the installation project. The fixture can be provided with plug (L-823), supply cable (two unipolar conductors) and ground cable already assembled 0.50 m in length (suitable for installation on pole max. 0.30 m) or to be cut and assembled 2.50 m. in length.

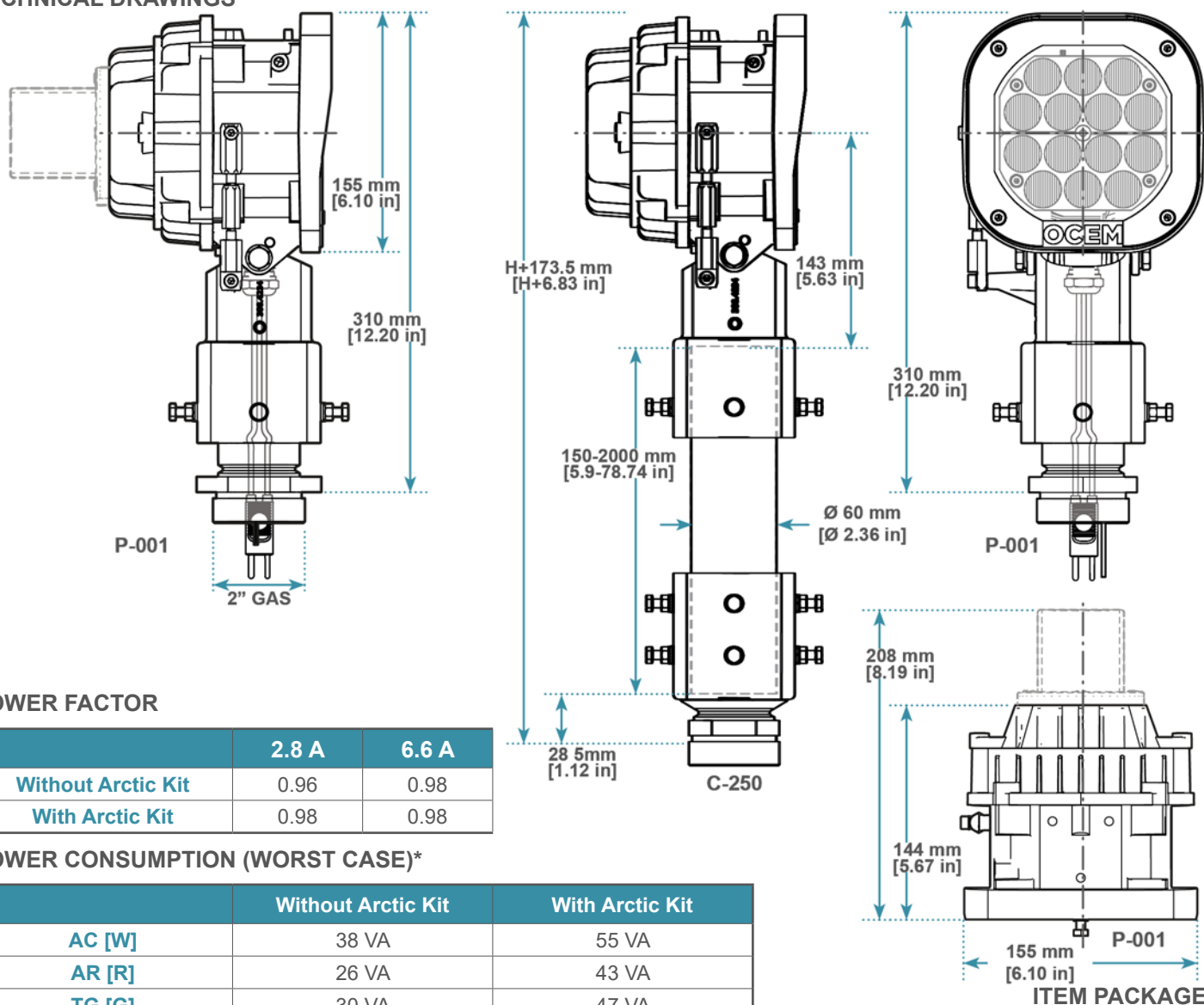
The fixtures installed on folding frangible pole (ex. axis, approach bars, side approach bars) are supplied without frangible pole (only with special support).

The fixture can be provided with plug (L-823) and cable (two unipolar conductors) already assembled 0.50 m in length and ground cable (suitable for installation on pole max. 0.30 m) or without plugs and without ground cable.

All the devices provided without assembled cable (assembly type 000 and type 250) are equipped with a special cable gland with plug-in terminals which allows the electrical connection to be made without opening the fixture.

Code	Description	Features
315.3710	Support pole 150 mm	Support pole Ø 60 mm H = 150 mm
315.3711	Support pole 500 mm	Support pole Ø 60 mm H = 500 mm
315.3712	Support pole 1000 mm	Support pole Ø 60 mm H = 1000 mm
315.3713	Support pole 1500 mm	Support pole Ø 60 mm H = 1500 mm
315.3714	Support pole 2000 mm	Support pole Ø 60 mm H = 2000 mm
155.7200	Frangible coupling	Frangible coupling for pole Ø 60 mm (LERA configuration C-050/C-250)

TECHNICAL DRAWINGS



POWER FACTOR

	2.8 A	6.6 A
Without Arctic Kit	0.96	0.98
With Arctic Kit	0.98	0.98

POWER CONSUMPTION (WORST CASE)*

	Without Arctic Kit	With Arctic Kit
AC [W]	38 VA	55 VA
AR [R]	26 VA	43 VA
TG [G]	30 VA	47 VA
WG [G]	30 VA	47 VA
ER [R]	20 VA	37 VA
SB [R]	20 VA	37 VA
BA [R]	17 VA	34 VA

* Measured at 6,6 A with toroidal isolation transformer 65 W.

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)
332.4560	Optical pointing system	Levelling and orientation device for fixture on support pole with frangible coupling
332.3240	Optical pointing system	Levelling and orientation device for fixture on frangible pole (requires support 332.4571)
332.4571	Support for optical system	Dedicated support for levelling device 332.3240.
798.0006	Maintenance tool	Carved tubular key 22 mm bulkhead connector

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

