

# EL-RE-LED

## Elevated Runway Edge Light

ICAO Annex 14, Vol I  
IEC TS 61827  
FAA AC 150/5345-46  
FAA EB No. 67

NATO STANAG 3316  
CAAC AC-137-CA-2015-01  
CAAC AC-137-CA-2015-03  
SAC GB/T 7256



### Features

- The serialized design of lighting fixtures (supporting uni/bi/omni-directional) combined with modular design of components effectively reduce the inventory of spare parts
- The light comes with preset elevation and toe-in angles, and it is easy to level by adjusting the installation screws
- It is easy to align with another light fixture by the directional reticle on the upper part of the glass dome
- Unique self-cleaning dome design effectively prevents dust and organic pollutants from adhering, ensuring stable light output
- Low energy LED light source, with a comprehensive lifespan of not less than 100,000 hours and light attenuation is less than 30%
- The dimming curve complies with the requirements of FAA EB67, and the dimming characteristics of the luminaire are similar to those of traditional halogen light source luminaires
- The overall degree of protection is IP68
- Optional fault detection function, which can achieve light fault open circuit in case of light source or drive failure
- Optional specialized arctic kits
- The rated light beam output and heating function can be remotely configured through a set of CCR light level encoding instructions

### Ordering Information

EL - RE - LED - XX - XX - X

#### Application

EL-RE = Elevated Runway Edge Light

#### Lamp source

LED = LED source

#### Beam color

CC = Clear/Clear, CY = Clear/Yellow  
YC = Yellow/Clear, CR = Clear/Red  
RC = Red/Clear

#### Circling guidance

C = Omni-directional Clear  
B = Without Omni-directional beam

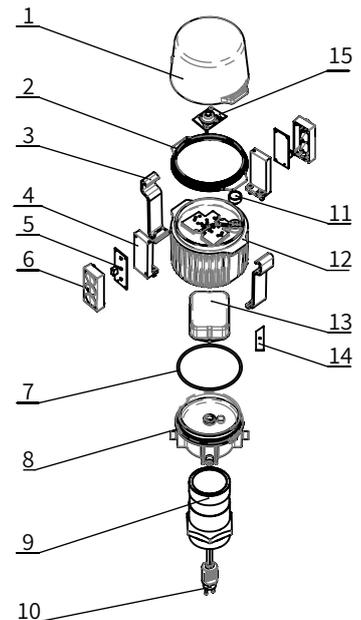
#### Optional function

M = Single lamp fault detection function  
A = Arctic kit

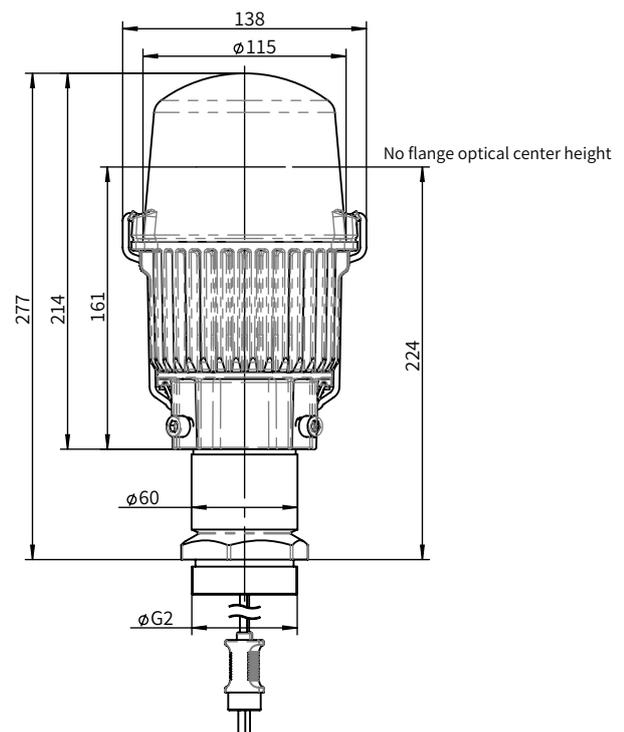
\*Please provide detailed installation information while ordering, spare parts and accessories should be separately ordered with specific order No.

### Structure

1. Dome
2. Dome gasket
3. Hasp
4. LED bracket
5. LED lamp assembly
6. LED lens
7. Lighting fixture gasket
8. Light body support
9. Frangible coupling
10. Secondary plug cable
11. Spirit level
12. Light body
13. LED driver
14. Arctic kits
15. Omni-LED assembly



### Dimension



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### Environmental Parameters

Altitude	below 4,500m
Operating temperature	-55°C ~ +55°C
Degree of protection	IP67
Relative humidity	100%
Seismic basic intensity	VII

### Electrical parameters

Rated Power	Clear/Clear 29VA, Clear/Yellow 23VA, Yellow/Red 16VA, Clear/Red 22VA, Clear/Clear/Omni-directional Clear 33VA, Clear/Yellow/Omni-directional Clear 27VA, Yellow/Red/Omni-directional Clear 20VA, Clear/Red/Omni-directional Clear 26VA,
Power Arctic	5VA (power not change under 2.8A to 6.6A)
Power Factor	>0.90
Power supply	2.8A ~ 6.6A

### Photometric Data

Execution standa	Main beam		Beam Color	Required main beam average intensity (cd)	Typical average intensity (cd)
	H	V			
ICAO Figure A2-9 /FAA L-862	±5.5° toe-in 3.5°	0° to 7°	Clear	10,000	11,039
			Yellow	4,000(5,000)	5,260
			Red	1,500(2,000)	2,205
ICAO Figure A2-10	±6.5° toe-in 3.5°	0° to 7°	Clear	10,000	11,209
			Yellow	4,000	4,489
			Red	1,500	2,060

### Packing Data

Quantity	4×Lights / Carton box
Packing size	360×360×350mm <sup>3</sup>
Unti net weight	2.1kg
Gross weight	9.0kg

### Isolation Transformer Power

When selecting an isolation transformer, it is necessary to comprehensively consider the power of the light fixture, power loss of the secondary cable, power of the arctic kits (if equipped), and power of the single-lamp monitoring device (if equipped).

\*At an ambient temperature of 20°C, the power loss of the secondary cable is approximately 0.6 W/m for a 2.5 mm<sup>2</sup> cross-section and 0.38 W/m for a 4 mm<sup>2</sup> cross-section under a current of 6.6 A.

\*For light fixtures equipped with arctic kits, note that under normal conditions, the electric heating power remains constant within the current range of 2.8 A to 6.6 A.

\*If a single-lamp monitoring device is to be connected, pay attention to its power characteristics within the current range of 2.8 A to 6.6 A.

### Spare Parts

Struc No.	Part Name	Order No.	Description
1	Dome	34105	Dome Ø115
2	Dome gasket	4110A	Dome gasket Ø113
3	Hasp	924Z11	Hasp assembly B
4	LED bracket	24W12	L bracket (-RE)
5	LED lamp assembly	7927K-RE-C	LED assy 65×27 -threshold green
		7927K-RE-Y	LED assy 65×27 - runway edge yellow
		7927K-RE-R	LED assy 65×27 - runway edge red
6	LED lens	3116L	LED lens 69×30 (3 in 1)
7	Lighting fixture gasket	4112F	O-ring 86.8×3.1
9	Frangible coupling	24241	2-inch frangible coupling
11	Spirit level	485BK	Spirit level Ø18×M10
13	LED driver	9791AX-I-3W-A	LED driver 1P3W - w/o FOD w/o Arctic
		9791AX-I-3W-A	LED driver 1P3W - w/o FOD with Arctic
		9791AX-MF-3W	LED driver 1P3W - with FOD w/o Arctic
		9791AX-MF-3W-A	LED driver 1P3W - with FOD with Arctic

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### Spare Parts

Struc No.	Part Name	Order No.	Description
14	Arctic kits	791B7	Resistance PCB 50*11
15	Omni-LED assembly	7927L +CA15902_ Strada-SQ-SE	Omni-LED assembly with lense

### Accessories

No.	Order No.	Description
1	FL-10	Flange (10 inches)
2	FL-12-X-G2	Flange (12 inches) G2
3	FC-02	Frangible coupling (2 inches)
4	ITF-XXX-066	Isolation transformer
5	REC7	moulded type secondary cable receptacle style 7

