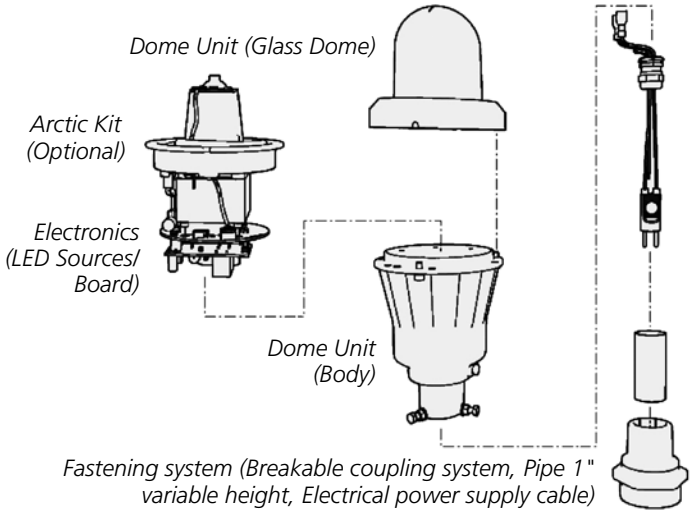
LED Elevated Medium Intensity Runway Light (LEMIRL)



Fastening system (Breakable coupling system, Pipe 1" variable height, Electrical power supply cable)

Compliance

- FAA (AC150/5345-46, EB67)
- AP-170 (Chapter 3.1)
- CASA (Manual of Standards Part 139)
- TP-312 (Aerodrome Standards and Recommended Practices)

Applications

Elevated LED fixture, medium intensity type, omnidirectional, bidirectional or unidirectional, with adjustable height and with non-flashing light for runway edge, runway end and IFR non-precision instrument runways.

- Runway edge: FAA AC150/5345-46 L861, AP-170 Vol II §6.1, CASA MOS 139 §9.10 , TP-312 §5B-1 (medium/low intensity)
- Runway threshold: FAA AC150/5345-46 L861E, AP-170 Vol II §6.1, CASA MOS 139 §9.10 (medium/low intensity)
- Runway end: FAA AC150/5345-46 L861E, AP-170 Vol II §6.1, CASA MOS 139 §9.10 (medium/low intensity)
- Wing bars: AP-170 Vol II §6.1
- Displaced threshold: FAA AC150/5345-46 L861, L861E, L861SE, CASA MOS 139 §9.10 (medium/low intensity)
- IFR non-precision instrument runways: FAA AC150/5345-46 L861, L861E, L861SE
- Approach area: AP-170 Vol II §6.1
- Landing zone: AP-170 Vol II §6.1
- Fillets light (rapid exit): AP-170 Vol II §6.1

Features

- Degree of mechanical protection IP68.
- Operational temperature range admitted: between -55°C (-67°F) to +55°C (131°F).
- Average life of LED: 60,000 hours at maximum intensity; 100,000 hours 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 standard FAA EB67.
- Colorimetric coordinates constant over time.
- High degree of compatibility with the existing airport installations.
- Low maintenance coefficient: fixtures designed with high modularity and minimal maintenance required over time and common spare parts for all the configurations.
- Degree of mechanical protection IP68: the seal of the dome does not require sealants.
- Absence of adjustments: the light sources are preconfigured and do not require adjustments.
- Usable with any type of constant current regulator compliant with the rules FAA or IEC.

Performance

- Electronics resistant to vibrations.
- Automatic adaptation to the frequency of the supply current.
- Equipped with surge protective device (FAA EB67).
- Geometry and structure designed to minimize the action of atmospheric precipitations on the optical emission of the fixture.

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ARTICLE CODE

Example: LEMIRL-F-E-RG-14-A-0		
F[1]	-	**F** (FAA/ICAO/TP312)*, **R** (AP-170), **C** (CASA MOS), **T** (FOR FUTURE USE), **S** (Special version)
E[2]	F	**0** = L-861 (L), **E** = L-861E (L), **S** = L-861SE (L)
	R	**A** = Approach, **R** = Runway edge, **T** = Threshold/Runway end
	C	**M** = Medium intensity, **D** = Shifted threshold, **L** = Low Intensity
	S	**N** = Unregulated
RG[3]	-	**W** = White, **Y** = Yellow, **R** = Red*, **G** = Green, **M** = Obscured
14[4]	-	**14** = 14” [35,5 cm], **20** = 20” [50,8 cm], **24** = 24” [60,9 cm], **30** = 30” [76,2 cm]
A[5]	-	**A** = 1” 1/2 - 12 UNF, **B** = 2” - 11 1/2 NPS, **C** = 2” GAS - invalid for FAA
0[6]	-	**0** = Without Arctic Kit, **A** = With Arctic Kit

** runway end version not compliant with TP-312 requirement*

Legend: [1] Reference standards; [2] Code of conduct (according to the regulations); [3] LED color [colorA-colorB]; [4] Height H [inches]; [5] Breakable coupling element; [6] Arctic Kit.

CODE OF USE | LED COLOR

	FAA (F)	AP-170 (R)	CASA MOS (C)	FUTURE USE (T)	(S)
360	L861 (0)	Approach (A) Runway edge (R)	Medium intensity (M) Shifted threshold (D) Low Intensity (L)	Runway edge (R)	(N)
BI	L861 (0) L861E (E) L861SE (S)	Runway edge (R) Threshold/Runway end (T)	Medium intensity (M) Low Intensity (L)	Runway edge (R) Threshold/Runway end (T)	(N)
UNI	L861E (E) L861SE (S)	Runway edge (R) Threshold/Runway end (T)	Shifted threshold (D)	Threshold (T) Runway end (T)	(N)

POWER CONSUMPTION (WORST CASE)*

Power factor** >0,98		Primary Conductor isolation transformer		Fixture	
FAA L-861	Without Arctic Kit	21.9W	21.9VA	12.4W	12.5VA
	With Arctic Kit	42.2W	42.2VA	33.2W	33.3VA
FAA L-861 E	Without Arctic Kit	18.5W	18.6VA	9.0W	9.1VA
	With Arctic Kit	39.0W	39.1VA	29.5W	29.6VA
FAA L-861 SE	Without Arctic Kit	24.8W	24.9VA	14.9W	15.0VA
	With Arctic Kit	45.6W	45.7VA	34.9W	34.9VA
AP-170	Without Arctic Kit	31.1W	32.0VA	15.9W	16.2VA
	With Arctic Kit	53.1W	53.8VA	38.1W	38.4VA
CASA MOS	Without Arctic Kit	32.1W	33.2VA	17.1W	17.3VA
	With Arctic Kit	54.6W	54.9VA	39.2W	39.4VA

*| Measured at 6,6 A with toroidal isolation transformer 30 / 45W. The values reported refer to the maximum power absorbed between configurations and available colors (worst case). For further details please refer to the product manual.

**| Measured at 6,6 A. The value reported refers to the minimum value between the configurations and the available options (worst case).

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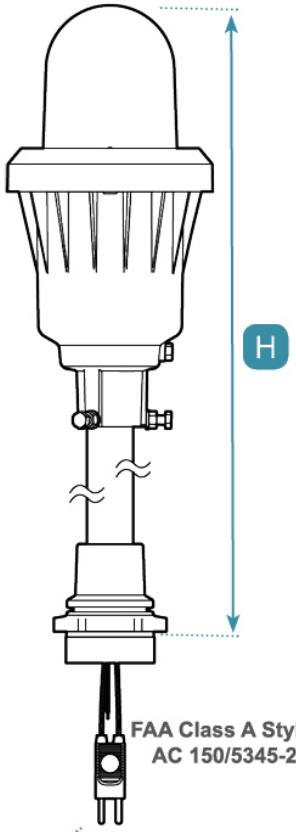
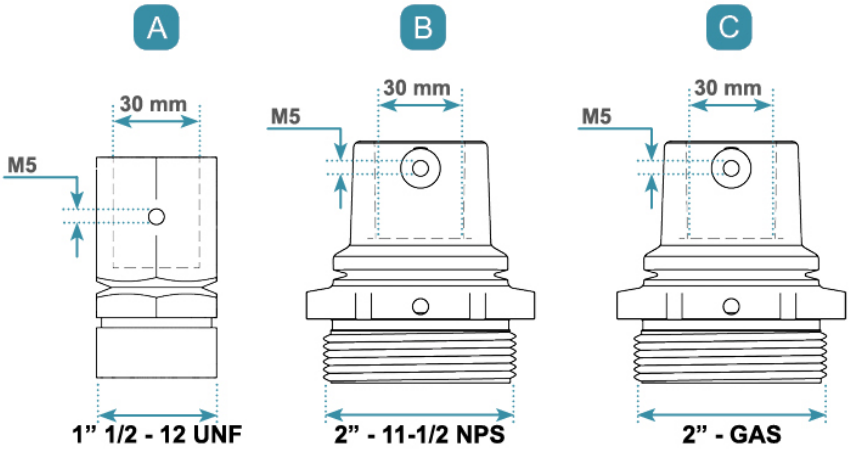
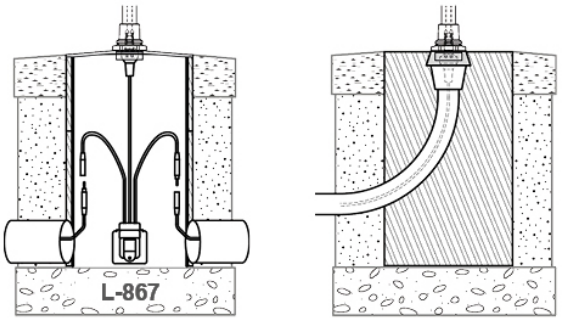
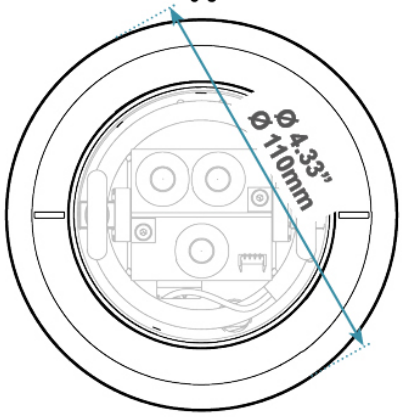
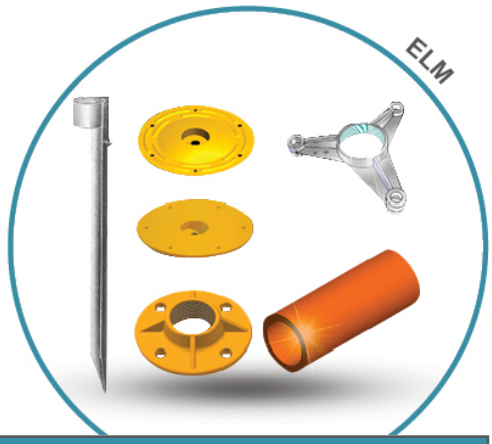




INSTALLATION EXAMPLE







ACCESSORY ARTICLES

Code	Description	Features
[*]	Base plate L-867B	Steel base plate for mounting on a deep base L-867B
[*]	Base plate L-867B RGL	Steel base plate for mounting on a deep base L-867B (version RGL Runway Guard Light)
[*]	Floor flange	Aluminum threaded lange
[*]	Pipe elbow	Galvanized iron pipe elbow
[*]	Tripod support	Aluminum tripod (ICAO Annex 14)
[*]	Threaded anchorage	Galvanized iron threaded anchorage
[*]	Deep base	Base FAA L-867 (B=12”, D=16”, E=24”) high 21”
[*]	Threaded stake	Stake with galvanized steel threaded support, equipped with ground connector.
RISLI0012	Pipe 1” - length 14” [355mm]	Galvanized steel elevated mounting pipe (version H=14”)
RISLI0008	Pipe 1” - length 20” [508mm]	Galvanized steel elevated mounting pipe (version H=20”)
RISLI0009	Pipe 1” - length 24” [609mm]	Galvanized steel elevated mounting pipe (version H=24”)
RISLI0010	Pipe 1” - length 30” [762mm]	Galvanized steel elevated mounting pipe (version H=30”)
PAALS0001	Optical orientation system	Tool for installation LEMI

[*] Contact Manufacturer to obtain the code

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