

RUNWAY LIGHTING

EMIL-L

LED Elevated Runway Edge Light

MEDIUM-INTENSITY



Compliance with Standards

- FAA:** L-861(L) and L-861E(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. ETL Certified.
- ICAO:** Annex 14, Vol. I, par. 5.3.9.7 to 5.3.9.9
- T/C:** Transport Canada TP 312 Par. 5.3.10.11 to 5.3.10.13
- CE:** Complies with the requirements of the EMC Directive 2004/108/EC.

Uses

FAA L-861(L)	<ul style="list-style-type: none"> Runway edge Visual runways or non-precision IFR runways
FAA L-861E(L)	<ul style="list-style-type: none"> Runway threshold/end Visual runways or non-precision IFR runways
ICAO & T/C	<ul style="list-style-type: none"> Runway edge Runway threshold/end

Features

- Average LED life of 56,000 hours under high-intensity conditions and more than 150,000 hours under typical operating conditions, resulting in significant reduction or even elimination of ongoing maintenance costs and periodic re-lamping expenses
- Single-latch, stainless steel clamp allows easy removal and replacement of top cover and lens
- A gasket is used between the lens and the top cover and also between the top and bottom fixture head assemblies to form a watertight seal
- EMIL with arctic option (U.S. Patent 7192155 B2) uses a thermostatically controlled heater to prevent ice and snow buildup from obscuring light output. Melts ice similar to traditional incandescent fixtures.
- Three screws allow a 4° leveling adjustment of the fixture after installation
- Fixture comes standard with a 1.5-inch coupling, but is available with a 2-inch coupling and in alternative thread patterns
- Sealed entry at cord set to optical assembly interface prevents insect entry
- For additional features common to all of ADB's elevated LED fixtures, see data sheet 3043.

Operating Conditions

Temperature: -40°F to +131°F (-40°C to +55°C)

Wind: Withstands wind velocities up to 300 mph (480 kph)

L-861(L)/L-861E(L) Leveling Device

Ordering Code _____ 44A7061

For accurate aiming and leveling it is recommended to have one leveling device per airfield.

Ordering Code

LED Color

- 1 = Omnidirectional White (L-861)
- 2 = Omnidirectional Yellow (L-861)
- 3 = Bidirectional White/Yellow (L-861)
- 4 = Bidirectional White/Red (L-861)
- 5 = Bidirectional Yellow/Red (L-861)
- 9 = Unidirectional Green/Obscure (L-861E)
- B = Unidirectional Yellow/Obscure (L-861)
- C = Unidirectional White/Obscure (L-861)¹
- E = Bidirectional Red/Green (L-861E)⁵
- F = Bidirectional Red/Red (L-861E)⁵
- G = Bidirectional Red/Obscure (L-861E)⁵
- H = Bidirectional Green/Yellow (L-861)
- I = Bidirectional Green/White (L-861)¹

Fixture Height

- 1 = 14-inch OAH with 1.5-inch coupling, 12 TPI
- 2 = 24-inch OAH with 1.5-inch coupling, 12 TPI
- 3 = 30-inch OAH with 1.5-inch coupling, 12 TPI
- 4 = 14-inch OAH with 2-inch coupling, 11.5 TPI
- 5 = 24-inch OAH with 2-inch coupling, 11.5 TPI
- 6 = 30-inch OAH with 2-inch coupling, 11.5 TPI
- 7 = 14-inch OAH with 2-inch coupling, 11 TPI²
- 8 = 24-inch OAH with 2-inch coupling, 11 TPI²
- 9 = 30-inch OAH with 2-inch coupling, 11 TPI²
- A = 14-inch OAH without coupling^{1,3}
- B = 20-inch OAH with 1.5-inch coupling, 12 TPI
- C = 18-inch OAH with 1.5-inch coupling, 12 TPI
- D = 18-inch OAH with 2-inch coupling, 11.5 TPI
- E = 18-inch OAH with 2-inch coupling, 11 TPI²
- F = 18-inch OAH without coupling^{1,3}

Power

- 1 = Current Driven, 60 Hz
- 2 = Current Driven, 50 Hz⁴
- A = APS^{1,6}

Arctic Option

- 0 = Without arctic option
- 1 = With arctic option

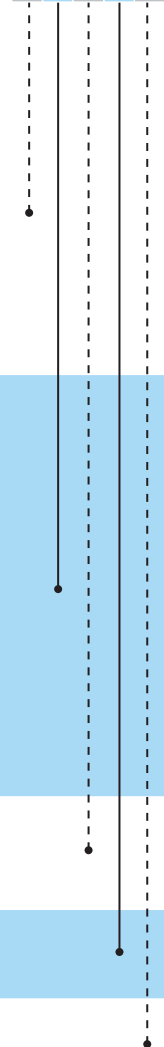
Cord Set

- 0 = Standard Configuration
- E = External¹

Notes

- ¹ Not ETL Certified
- ² Normally used in metric applications
- ³ Configuration sold with no column and no coupling
- ⁴ All 50 Hz EMIL fixtures carry the CE mark
- ⁵ Optics for red side enhanced to provide a beam much wider than FAA requirements
- ⁶ APS fixture is not available with an arctic option

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Electrical Supply, Current Driven

Medium-intensity runway fixtures should be operated on 3-step power supplies. 6.6 A through an L-830-1 (for 60 Hz) or L-831-1 (for 50 Hz) isolation transformer. EMIL LED lights have been designed to work with any IEC or FAA-compliant transformer up to 30/45 W without affecting performance or lifetime of the light or the transformer. See catalog sheet 3033 for more details on recommended isolation transformers specified below.

	Fixture Load	Isolation Transfmr.	Isol. XF Load	CCR Load
EMIL L-861(L)				
W/out heater	19.6 VA	20/25 W	7.6 VA	27.2 VA
With heater	42 VA	30/45 W	12 VA	54 VA
EMIL L-861E(L) - Bidirectional				
W/out heater	11.8 VA	10/15 W	6.2 VA	18 VA
With heater	33 VA	30/45 W	14 VA	47 VA
EMIL L-861E(L) - Unidirectional				
W/out heater	9.9 VA	10/15 W	6.1 VA	16 VA
With heater	31 VA	30/45 W	14 VA	45 VA

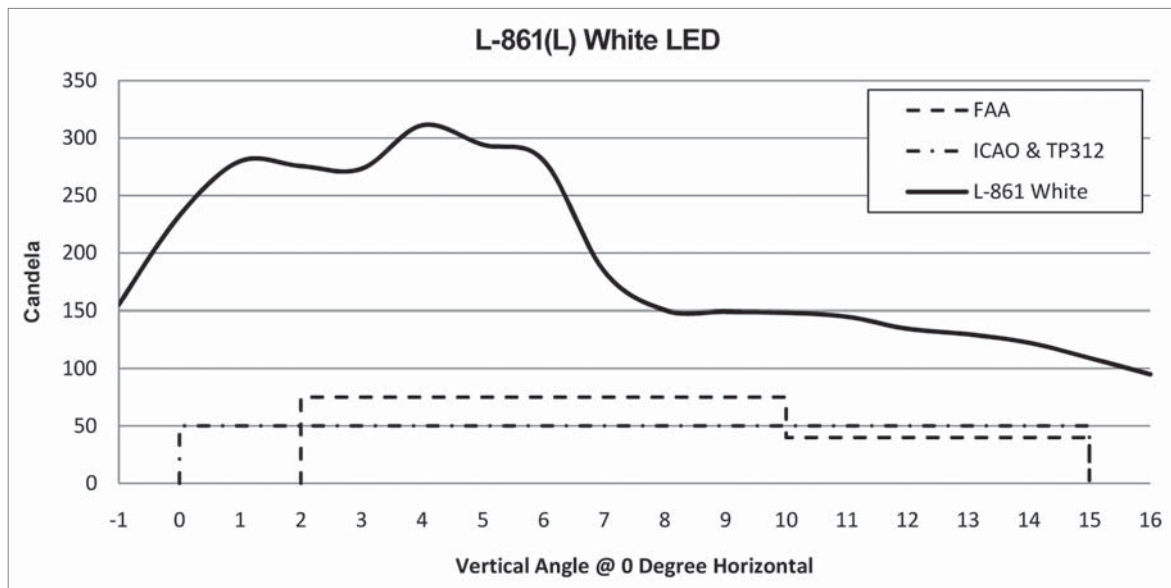
Packaging

Assembled Fixtures	Dimensions of Cartons in (cm)		Indiv. Weight
	Individual	9 Per Box	
14-inch OAH	6.5 x 6.5 x 20.5 (17 x 17 x 52)	19.5 x 19.5 x 20.5 (50 x 50 x 52)	5 lb 2.3 kg
24-inch OAH	6.5 x 6.5 x 31 (17 x 17 x 79)	19.5 x 19.5 x 31 (50 x 50 x 79)	6.25 lb 2.8 kg
30-inch OAH	6.5 x 6.5 x 37 (17 x 17 x 94)	19.5 x 19.5 x 37 (50 x 50 x 94)	7 lb 3.2 kg

Spare Components

Refer to the manual to order spare parts.

Photometric Data



Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.

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