

RUNWAY LIGHTING

EMIS-L

LED Elevated Runway Edge Light
MEDIUM-INTENSITY



Compliance with Standards

- FAA:** L-861(L), L-861E(L) and L-861SE(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.

Uses

FAA L-861(L)

- Runway edge
- Visual or non-precision IFR runways

FAA L-861E(L)

- Runway threshold/end
- Visual runways or non-precision IFR runways

FAA L-861SE(L)

- Runway threshold/end
- Non-precision IFR runways

ICAO and T/C

- 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
- EMIS-L with arctic option 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.

Power Supply, Current Driven

Medium-intensity runway fixtures should be operated on a 3-step series circuit. 6.6 A through an L-830 (for 60 Hz) or L-831 (for 50 Hz) isolation transformer. EMIS 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 Transformer	Isol. XF Load	CCR Load
L-861(L)				
W/out heater	9.9 VA	10/15 W	11.6 VA	21.5VA
With heater	29.9 VA	30/45 W	9 VA	38.9 VA
L-861E(L) - Bidirectional				
W/out heater	5.7 VA	10/15 W	12.2 VA	17.9 VA
With heater	25.7 VA	30/45 W	9 VA	34.7 VA
L-861E(L) - Unidirectional				
W/out heater	4.8 VA	10/15 W	12.4 VA	17.2 VA
With heater	24.8 VA	30/45 W	9 VA	33.8 VA
L-861SE(L) - Bidirectional				
W/out heater	14.1 VA	10/15 W	12.1 VA	26.2 VA
With heater	34.1 VA	30/45 W	9 VA	43.1 VA
L-861SE(L) - Unidirectional				
W/out heater	10.6 VA	10/15 W	12.3 VA	22.8 VA
With heater	30.6 VA	30/45 W	9 VA	39.6 VA

Operating Conditions

Temperature: -40°F to +131°F (-40°C to +55°C)
Wind: Withstands wind velocities up to 300 mph (482 kph)

RUNWAY LIGHTING

EMIS-L

Ordering Code

E MI X X X 0 X X 0 X 0 0

Application

MI = Runway Edge, medium-intensity

Lens Type

S = Glass

Cable and Connector

2 = 1 plug (2-pin)

6 = 1 plug (2-pin) and separate earth ground wire¹

8 = 1 plug (2-pin), externally connected^{1,2}

Color – Side 1^{3,4}

W = White

Y = Yellow

R = Red

G = Green

N = None (Obscured)

Color – Side 2^{3,4}

W = White

Y = Yellow

R = Red

G = Green

N = None (Obscured)

0

Overall Fixture Height/Coupling

1 = 14 in (35.6 cm) with 1.5" coupling, 12 TPI

2 = 20 in (50.8 cm) with 1.5" coupling, 12 TPI

3 = 24 in (61.0 cm) with 1.5" coupling, 12 TPI

4 = 30 in (76.2 cm) with 1.5" coupling, 12 TPI

5 = 14 in (35.6 cm) with 2" coupling, 11.5 TPI

6 = 20 in (50.8 cm) with 2" coupling, 11.5 TPI

7 = 24 in (61.0 cm) with 2" coupling, 11.5 TPI

8 = 30 in (76.2 cm) with 2" coupling, 11.5 TPI

9 = 14 in (35.6 cm) with 2" coupling, 11 TPI^{1,3}

A = 20 in (50.8 cm) with 2" coupling, 11 TPI^{1,3}

B = 24 in (61.0 cm) with 2" coupling, 11 TPI^{1,3}

C = 30 in (76.2 cm) with 2" coupling, 11 TPI^{1,3}

Power Supply

S = Current Driven, 50/60 Hz

Photometrics

0 = ICAO- and FAA-compliant

F = FAA-compliant (L-861SE only)

C = Canada, TP 312-compliant

0

Arctic Option

0 = Without arctic option

1 = With arctic option

0

Version

0 = Original version

Ordering Code Notes

¹ Not ETL Certified

² Cord set connected external to column

³ Normally used in metric applications

⁴ Color combinations not recognized by FAA: white/green, white/obscured, and yellow/obscured

⁵ Color combinations are: red, red/green, obscured/red, obscured/green, white/red, white/green, yellow/red, and yellow/green

Packaging

Assembled Fixtures	Dimensions of Cartons in (cm)		Indiv. Weight
	Individual	12 Per Box	
14" OAH	6.5 × 6.5 × 20.5 (16.5 × 16.5 × 52)	16.5 × 21 × 20.5 (42 × 53.3 × 52)	5 lb 2.3 kg
24" OAH	6.5 × 6.5 × 31 (16.5 × 16.5 × 78.7)	19.5 × 19.5 × 31 (49.5 × 49.5 × 78.7)	6.25 lb 2.8 kg
30" OAH	6.5 × 6.5 × 37 (16.5 × 16.5 × 94)	19.5 × 19.5 × 37 (49.5 × 49.5 × 94)	7 lb 3.2 kg

Additional Resources

- Refer to the manual to order spare parts.
- Refer to the Product Center on the website to view Photometric Data.

EMIS-L Leveling Device

Ordering Code

44A7645

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



www.adbsafegate.com

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