

TAXIWAY LIGHTING

ETES-L

LED Elevated Taxiway Edge Light
MEDIUM-INTENSITY



ETES (Glass)

Compliance with Standards

- FAA:** L-861T(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. ETL Certified.
- ICAO:** Annex 14, Vol. 1, para. 5.3.17; 5.3.18 (for photometry)
- CE:** Complies with the requirements of the EMC Directive 2004/108/EC

Uses

FAA L-861T(L)

Used to delineate the edges of airport taxiways.

Features

- Average LED life of 100,000 hours under high-intensity conditions and more than 180,000 hours under typical operating conditions, which significantly reduces ongoing maintenance costs and periodic re-lamping expenses
- The ETES with heater fixture MTBF is at least 180,000 operating hours.
- UV-resistant polycarbonate outer lens option minimizes risk of lens damage if fixture is knocked over
- 10/15 W and 20/25 W isolation transformers are available for use with ETES fixtures to match fixture load for optimal efficiency (see data sheet 3033). A standard 30/45 W isolation transformer may also be used.
- Rugged low-profile design reduces damage due to jet blast
- Provides $\pm 4.5^\circ$ vertical adjustment
- Aluminum casting, stainless steel hardware, and protected with aviation yellow powder coat finish. Locking ring is protected with aviation blue powder coat finish.

Operating Conditions

- Temperature: -40 °F to +131 °F (-40 °C to +55 °C)
- Wind: Withstands wind velocities up to 300 mph (480 kph)

Electrical Supply

Current Driven

6.6 A through an L-830-1 (for 60 Hz) or L-831-1 (for 50 Hz) isolation transformer. ETES LED lights have been designed to work with any IEC or FAA-compliant transformer up to 100 W without affecting performance or lifetime of the light or the transformer.

For new ETES without heater installations, L-830-16 (10/15 W) isolation transformers are available to match fixture load for optimal efficiency (See data sheet 3033 for more details).

For new ETES with heater installations, L-830-17 (20/25 W) isolation transformers are available to match fixture load for optimal efficiency. (See data sheet 3033 for more details).

ETES w/ heater	Fixture Load	Isolation Transfmr.	Isol. XF Load	CCR Load
Off	12 VA	20/25 W	7.5 VA	19.5 VA
Off	12 VA	30/45 W	8.4 VA	20.4 VA
On	25 VA	20/25 W	7.5 VA	32.5 VA
On	25 VA	30/45 W	9 VA	34 VA
ETES w/out heater	Fixture Load	Isolation Transfmr.	Isol. XF Load	CCR Load
Off	12 VA	10/15 W	3 VA	15 VA
Off	12 VA	30/45 W	8.4 VA	20.4 VA

Voltage Driven

Input voltage: 95 VAC (min.) - 264 VAC (max.), 50/60 Hz

Maximum input power (w/out heater): 10.2 VA

Maximum input power (w/heater): 25.2 VA at 120 VAC

TAXIWAY LIGHTING

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Ordering Code

ETES - X X X X

LED Color

- 1 = Blue (Glass)
- 2 = Red (special applications only)¹
- 3 = White (special applications only)¹
- 4 = Green (special applications only)¹
- 5 = Yellow (special applications only)¹
- 6 = Blue (UV-resistant Polycarbonate)

Fixture Height

- 0 = 14" OAH without coupling³
- 1 = 14" OAH with 1.5-inch coupling, 12 TPI
- 2 = 24" OAH with 1.5-inch coupling, 12 TPI
- 3 = 30" OAH with 1.5-inch coupling, 12 TPI
- 4 = 14" OAH with 2-inch coupling, 11.5 TPI
- 5 = 24" OAH with 2-inch coupling, 11.5 TPI
- 6 = 30" OAH with 2-inch coupling, 11.5 TPI
- 7 = 14" OAH with 2-inch coupling, 11 TPI⁴
- 8 = 24" OAH with 2-inch coupling, 11 TPI⁴
- 9 = 30" OAH with 2-inch coupling, 11 TPI⁴
- A = No column or frangible coupling, Style 6 cord
- B = 14" OAH with 1.5-inch slot coupling
- C = 24" OAH with 1.5-inch slot coupling
- D = 30" OAH with 1.5-inch slot coupling
- E = 14" OAH with 1.5" x 2" slot coupling, 11.5 TPI
- F = 24" OAH with 1.5" x 2" slot coupling, 11.5 TPI
- G = 30" OAH with 1.5" x 2" slot coupling, 11.5 TPI
- H = No column or frangible coupling, Style 1 cord
- L = 14" OAH with 2" coupling, 11.5 TPI, 22" cord set
- M = 18" OAH with 1.5" x 2" slot coupling, 11.5 TPI
- N = 18" OAH with 1.5-inch coupling
- P = 18" OAH with 2-inch coupling, 11.5 TPI
- Q = 18" OAH with 2-inch coupling, 11 TPI⁴
- S = 20" OAH with 1.5-inch coupling
- T = 20" OAH with 1.5-inch slot coupling
- U = 20" OAH with 2-inch coupling, 11 TPI⁴
- V = 20" OAH with 2-inch coupling, 11.5 TPI

Power

- 1 = Current Driven, 50/60 Hz⁵
- 3 = 95-264 VAC, 50/60 Hz

Arctic Option

- 0 = Without arctic option
- 1 = With arctic option²

Notes

- ¹ Not submitted for ETL testing
- ² When powered by a parallel circuit, heater is designed for use at only 120 VAC, ±10%, 50/60 Hz
- ³ Configuration sold with no column and no coupling
- ⁴ Normally used in metric applications
- ⁵ Any current-driven option carries the CE Mark

Energy Cost Savings

One (1) watt LED light source combined with efficient electronics results in significant energy cost reductions.

Isolation Transformer	LED Fixture Load ¹	Incand./Tungsten Halogen Load	Energy Savings
ETES with heater on, current driven			
20/25 W or 30/45 W	25 VA	45 W	1.8 times
ETES with heater off, current driven			
20/25 W or 30/45 W	12 VA	45 W	3.7 times

Notes

- ¹ Fixture load does not include isolation transformer load.

Packaging

Assembled Fixtures	Dimensions of Cartons		Indiv. Weight ²
	Individual in (cm)	12/Box in (cm)	
14-inch OAH	6.5 × 6.5 × 20.5 (16.5 × 16.5 × 52)	16.5 × 21 × 20.5 (41.9 × 53.3 × 52)	2.75 lb 1.25 kg
24-inch OAH	6.5 × 6.5 × 31 (16.5 × 16.5 × 79)	16.5 × 21 × 33.5 (41.9 × 53.3 × 85)	4 lb 1.81 kg
30-inch OAH	6.5 × 6.5 × 37 (16.5 × 16.5 × 94)	16.5 × 21 × 39 (41.9 × 53.3 × 99)	4.75 lb 2.15 kg

Notes

- ² Weight based on unpackaged ETES with arctic option.

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