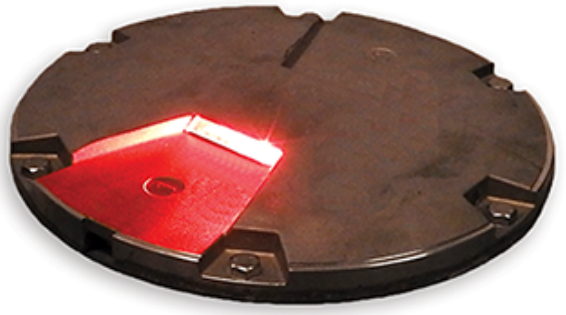
TAXIWAY LIGHTING

DTH - LP

LED RWSL Take-Off Hold Light & Runway Intersection Light

STYLE 3



Compliance with Standards

FAA: L-850T(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. ETL Certified. Complies with FAA Runway Status Light System Take-off Hold Light (THL) and Runway Intersection Light (RIL) requirements in FAA AC 150/5340-30 Appendix 7 and FAA Engineering Brief 64.

Uses

FAA L-850T(L) RWSL THL-RIL
Used in FAA Runway Status Light THL applications. Fixture is unidirectional traffic signal red.

Features

- The evolution of the most successful LED lights in the world, fully adapted to the characteristics of LED lighting sources
- Very low energy consumption
- Greatly reduced maintenance: calculated MTBF of 56,000 hours at 6.6 A
- Style 3-Low protrusion above ground of ≤0.25 inch (6.3 mm) reduces vibrations caused by aircraft landing gear in both the light fixture and the landing gear, increasing fixture life.
- Increased traffic efficiency and availability of the runways due to the reduction in maintenance
- Very low working temperature, ensuring longer component life
- Full compatibility with conventional airfield lighting series circuits. No need to replace the CCRs, series transformers or cables on existing circuits.
- Substantial investment reduction for new installations using smaller CCR size and series transformers, resulting from a lower installed load
- Fully dimmable lights, respecting the response curve of traditional halogen lights. Operates on the full range of 2.8 A to 6.6 A.
- Rugged lightning protection complies with ANSI/IEEE C62.41-1991 Location Category C2 given in FAA Eng. Brief 67. Category C2 is defined as a 1.2/50µS - 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A.
- When turned on, light rise time is low. The light is perfectly adapted for any incursion protection system.
- Environment-friendly, precision-cast aluminum alloy top, intermediate and bottom covers
- Corrosion-resistant stainless steel hardware. Use of Torx screws ensures ease of maintenance.

Ordering Code

D T H J 2 R N 0 X M F 0 X R 0

D = AD light

Application
TH = RWSL THL-RIL

Cord Set Style and length
J = Style 1 SO Jacketed cable, 2-pin, 18" long

Cable and Connector
2 = 1 plug (2-pin)

LED Color 1 – Left
R = Red

LED Color 2 – Right
N = Obscure/Blank (no light)

0

Dimensions
B = 8" diameter, 1/4" protrusion[1]
D = 12" diameter, 1/4" protrusion

Power Supply and Monitoring
M = 6.6A, 50/60Hz, with monitoring option

Specifications
F = FAA

Winter Options
0 = None

Bolt Holes/Fixation Options
0 = Standard (6 bolts for 12" fixture)
1 = 4 bolts (8" fixture)[1]

Ground Lug Options
R = FAA RWSL Applications[2]

Notes

[1] Fixture is ETL Certified when used with 12" snow plow ring adapter, Part No. 62A2244-10.

[2] Includes 10-32 x 1/2 hex head earth ground lug.

DTH - LP

DTH-LP lights are part of a complete range of LED in-pavement lights, featuring innovative characteristics, as a leverage for:

Reliability

- Additional watertightness barriers, protecting both the electronics and the LEDs in case of accidental water ingress, along the prism or the gaskets as well as along the cables
- Prisms of small dimensions installed in a deep optical channel with no negative window slope: optimal protection against rubber deposit, scratches and shocks

Maintenance Friendliness

- Maintenance-friendly: components subject to wear or damage like prisms and cables can easily be replaced. Neither sealing compounds nor resin are required
- Innovative design of the cable entry, permitting replacement without the need to open the light. This eliminates the risk of water leakage due to a pinched cable.
- Reduced number of components for maintenance simplicity
- Pressure-release plug for water-tightness testing of fixture after overhaul

Low protrusion without negative slope

- Limited height above pavement of 6.3 mm (0.25 in) reduces the risk of damage during winter operations or by towbarless tugs
- Despite the low protrusion, no part of the prism is below ground level, avoiding loss of photometry during rainfall and sedimentation on the bottom of the prism

Operating Conditions

Temperature:	-40 °C to +55 °C (-40 °F to +131 °F)
Altitude:	Sea level to 10,000 feet (3000 m)
Relative Humidity:	Up to 100%

Dimensions

Top cover outside diameter:	11.94 in (30.33 cm)
Top cover bolt-circle diameter (L-868B):	11.25 in (28.58 cm)
Bottom cover outside diameter(max.):	9.94 in (25.25 cm)
Depth:[1]	4 in (10.16 cm)

Notes

[1] From the bottom of the top cover to the bottom of the fixture.

Power Supply

It is recommended that the DTH-LP fixture be powered from a dedicated CCR and that separate remote controls are available. DTH-LP lights have been designed to work with any FAA-compliant transformer up to 150 W without affecting the performance or lifetime of the light fixture or transformer. See data sheet 3033 for more details on recommended isolation transformers specified below.

L-850T(L)/ DTH-LP	Fixture Load*	Isolation Transformer	Isol. XF Load	CCR Load
Without Heater	35 VA	30/45 W	6 VA	41 VA

Note: Load includes ADB Safegate BRITE III Remote device.

Packaging

In cardboard box:	7 × 13 × 13 in (17.8 × 33 × 33 cm)
Weight with packing:	22 lb (9.98 kg)
Weight without packing:	17.75 lb (8.05 kg)