

AXON

Runway Status L-850T(L), Takeoff/Hold,
Runway Intersection (THL/RIL) and
Runway Entry Light (REL)
Inset 8-inch and 12-inch



Compliance with Standards (current version)

FAA **L-850T(L):** AC 150/5345-46 and FAA Engineering Brief No. 67. 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 G and FAA Engineering Brief 64
L-852S(L): AC 150/5345-46 and FAA Engineering Brief No. 67. Complies with FAA Runway Status Light System Runway Entry Light (REL) requirements in FAA AC 150/5340-30 Appendix G and FAA Engineering Brief No. 64.

CE

Uses

FAA Runway Status Light (RWSL) Applications

- L-850T(L) THL Runway Takeoff/Hold Light
- L-850T(L) RIL Runway Intersection Light
- REL Runway Entry Light

Features and Benefits

Efficiency

- EQ has an integrated ILCMS remote for use with the LINC 360 integrated ILCMS providing high data capacity and resisting degradation from various types or radio effects to provide a superior communication platform
- Precision aimed optics enhancing photometric performance and complementing extended LED life
- Reduced bottom pan profile allowing for very shallow base can installation
- At-a-Glance top cover identification to quickly differentiate runway fixtures from taxiway fixtures to minimize installation errors
- LEDs pulse width modulated (PWM) at 400 Hz optimizing LED performance and eliminating perceptible flicker to a moving human observer throughout the range of brightness steps
- Operates at all steps of constant current regulator technologies designed in compliance with IEC or FAA requirements
- Fully dimmable lights, conforming to the dimming curve of traditional halogen lights
- Low protrusion, high-intensity, Style 3 (≤ 6.35 mm) inset light fixtures
- No negative slope in front of the prisms

Sustainability

- Fully encapsulated all-in-one universal power supply.
- Latest generation LEDs providing a long-lasting light source with high efficiency and low power consumption
- Reinforced top cover substantially exceeding standards to improve durability and longevity
- One single family of fixtures covering all runway, taxiway and approach applications
- IP68 rated enclosure designed for harsh environments; all fastenings are stainless steel
- Reinforced prism available as an option
- Compatible with existing infrastructure allowing for direct replacement of existing LED inset fixtures

Safety

- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Failed-LED Detection as required by Engineering Brief 67D
- Robust lightning protection complying with ANSI/IEEE C62.41-1991; Location Category C2 as required by FAA Eng. Brief 67. Category C2 is defined as a $1.2/50\mu\text{S} - 8/20 \mu\text{S}$ combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

Power Supply

- EQ with integrated ILCMS with OFDM technology for use with LINC 360 system

Ordering Code

RS

Application

RS = Runway Status; Takeoff/ Hold (THL); L-850T(L) (RIL); Runway Intersection¹
 TS = Runway Status; Runway Entry (REL)¹

Standards

2 = FAA

Market Specific

0 = None
 1 = Buy American Preference (BAP)

Dimensions

1 = 8 inch (203 mm) diameter²
 2 = 12 inch (305 mm) diameter 11.25 inch BC (285 mm)
 3 = 8 inch (203 mm) diameter 4-bolt²

Prism

S = Standard prism
 R = Reinforced prism

Beam Orientation

1 = Unidirectional

Toe-in

N = None

Color – Side 1

R = Red

Color – Side 2

N = Not applicable

Power and Monitoring

R = 2.8 A - 6.6 A, EQ integrated LINC 360

Cable and connector

1 = 1 x Style 6 2-pole plug, 2 individual Wires
 2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable

Options

0 = None
 1 = Arctic Kit

Version Control

1 = Version 1

Ordering Code Notes

¹ Fixtures provided with 316 stainless steel screw and lock washer for grounding provision. No ground lug provided.

² Not ETL submitted

Maintenance and Installation

The light fixture can be installed on an 8-inch or 12-inch base.

Note: Refer to user manual UM-5055 for "RS" and UM-5056 for "TS" lights.

Operating Conditions

Operating temperature -60 °C to +55 °C / -76 °F to +131 °F

Storage temperature -60 °C to +80 °C / -76 °F to +176 °F

Humidity Up to 100%

Dimensions and Weight

Dimensions 203 mm (8 in) 305 mm (12 in)

Weight 3.0 kg / 6.6 lb (8 in) 6.8 kg / 15 lb (12 in)

ANNEX

8- and 12-inch light fixtures without Arctic Kit

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
L-850T(L) THL/RIL Takeoff Hold Light	16.5 VA	25 W	10 VA	26.5 VA
REL Runway Entry Light	17.5 VA	25 W	9.8 VA	27.3 VA

8- and 12-inch light fixtures with Arctic Kit

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
L-850T(L) THL/RIL Takeoff Hold Light	48.5 VA	65 W	14 VA	62.5 VA
REL Runway Entry Light	49.5 VA	65 W	14 VA	63.5 VA

Note:

- See user manual UM-5056 for other power supplies.
- EQ fixtures:
 - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to next size up to assure additional 8 VA coverage. Transformers can be safely overloaded by 10 %.
 - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply

For more information about the product, including manuals and certifications, please see the Product Center on the ADB SAFEGATE website: www.adbsafegate.com.