

RELIANCE

LED Runway Status Light L-850T(L)

Unidirectional inset 12-inch



Compliance with Standards (current version)

FAA AC 150/5345-46D and Engineering Brief No. 67

CE

Uses

FAA

- Runway status light L-850T(L)
- Takeoff hold light L-850T(L)
- Runway intersection light L-850T(L)

Features and Benefits

Efficiency

- Available in three versions:
 - RELIANCE™ IQ with integrated intelligence
 - RELIANCE with integrated fail-open (Mon) technology. Fuse resistors are part of the Mon-functionality and spares needs to be ordered separately.
 - RELIANCE Non-MON, non-monitored lights
- Light Emitting Diode (LED) technology that offers a long-lasting light source with low power consumption
- Compatibility between RELIANCE IQ version and RELIANCE Intelligent Lighting 2A system for further power savings and ILCMS
- No visual flicker. PWM is used for some applications to optimize the LED performance and light fixtures show no visual flickering.

Sustainability

- Fully encapsulated all-in-one electronics
- IP68 protected, aluminum housing designed for harsh weather environments, all fastenings in stainless steel
- Reinforced prism available as an option
- Operates on 3- or 5-step ferroresonant or thyristor CCRs designed in compliance with IEC or FAA requirements
- Easy handling and maintenance by modular design with few mechanical parts
- Compatible with existing infrastructure

Safety

- Built-in voltage surge and lightning protection
- Fully dimmable lights, respecting the response curve of traditional halogen lights
- Low protrusion, high-intensity, Style 3 inset light fixtures
- No negative slope in front of the prisms

Accessories

Refer to the user manual for 12-inch RELIANCE inset lights.

Power Supply

An integrated, encapsulated 6.6 A electronic converter. Two-pole L-823 plug for connection to the transformer. Power factor typically >0.9 at 6.6 A.

Note: Refer to the user manual for 12-inch RELIANCE inset lights and the complete power table and cable loss formula.

Maintenance and Installation

The light fixture can be installed in a 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

Note: Refer to the user manual for 12-inch RELIANCE lights and the interoperability information for installation in a specific base.

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	304 mm / 12-in
Weight	6.3 kg / 13.9 lb

RELIANCE

Ordering Code

S I R S □ □ □ □ □ □ □ □ □ □

SIRS

Prism

S = Standard prism
R = Reinforced prism

Diameter

2 = 12 in

Type

U = Unidirectional

Light Distribution

S = Straight

Options

0 = No options

Color – B Side

R = Red

Color – A side

N = Blank

Power and Monitoring

S = 2.8 - 6.6 A, without monitoring (Non-MON)
M = 2.8 - 6.6 A, with monitoring (with fail-open)
P = 2.8 - 6.6 A/ 2 A, IQ0 (IQ disabled)
Q = 2.8 - 6.6 A/ 2 A, IQ1 (IQ enabled)

Standards

F = FAA AC 150/5345-46D

Cord set type

A = Style 6 (2-pin) plug

Cable and connector

2 = 1x 2-pin plug

Version

3 = RELIANCE

Note:

- Fixture supports: Compatible with both shallow and deep 12-inch bases.
- The IQ functionality allows control and monitoring of the RELIANCE IQ. IQ1 fixtures are pre - configured for the specific position at delivery. This function is disabled in IQ0 fixtures but could be enabled later.
- IQ light fixtures are only available as a one connector option.

ANNEX

Fixture type – 1 cord set	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Status, Take off, Intersection L-850T(L), Red	20 VA	25 W	0.7	11 VA	31 VA

NOTICE:

- No losses in the secondary cables are considered in the above table.
- No losses in the primary cables are considered in the above table.
- No spare CCR load has been considered in the above table.
- The Isolation transformer efficiency considered in the above table is estimated. These efficiency values depend on the isolating transformer supplier.
- No loads due to extra equipment on the circuit (e.g. ILCMS equipment) are considered in the above table.
- For Reliance IQ version:
The minimum Isolation Transformer rating is 65W.
To allow for communication bandwidth, an overhead of 12VA should be considered when determining the Isolation Transformer rating.
- For Reliance Fail-open version:
The maximum Isolation Transformer rating is 200W.
- If part of a Reliance 2A system:
The data provided in the table above is not applicable if part of a 2A reliance system. In this case, please contact your local ADB Safegate representative.

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