

# RELIANCE

LED L-850A(L) Runway Centerline,  
L-850B(L) Touch Down Zone and RETIL  
Uni and bidirectional inset, 8-inch and  
12-inch



## Compliance with Standards (current version)

FAA	AC 150/5345-46 and FAA Engineering Brief No. 67
ICAO	Annex 14, Volume 1
IEC	61827
NATO	STANAG 3316
EASA	CS-ADR-DSN
STAC	PRO/STAC/SE/ENIS/6008
UK	CAP 168
Canada	TP312
Australia	MOS 139
CE	

## Uses

### ICAO

- Runway centerline
- Touchdown zone
- RETIL - Rapid Exit Taxiway Indicator Light

### FAA

- L-850A(L) Runway centerline
- L-850B(L) Touchdown zone

## 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



# ANNEX

## 12- and 8- inch inch light fixtures

Unidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Centerline, L-850A(L), Red	19 VA	25 W	0.7	11 VA	30 VA
Runway Touchdown Zone, L-850B(L), White	23 VA	25 W	0.7	11 VA	34 VA
Runway RETIL, Yellow	19 VA	25 W	0.7	11 VA	30 VA

Bidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Centerline, L-850A(L), White/White	31 VA	45 W	0.85	8 VA	39 VA
Runway Centerline, L-850A(L), White/Red	26 VA	45 W	0.85	8 VA	34 VA

Bidirectional Fixtures – 2 cord sets, 25° C	Fixture load		Isolation transformer						CCR load	
	B-side	A-Side	Rating		Efficiency		Energy Use			
			B-Side	A-Side	B-side	A-Side	B-Side	A-Side	B-Side	A-Side
Runway Centerline, L-850A(L), White/White	18 VA	18 VA	25 W	25 W	0.7	0.7	8 VA	11 VA	29 VA	29 VA
Runway Centerline, L-850A(L), White/Red	18 VA	13 VA	25 W	25 W	0.7	0.7	8 VA	11 VA	29 VA	24 VA

### Note:

- Additional voltage loss not included in the above table:
  - Primary cables will result in a higher CCR load
  - Longer secondary cables may result in a larger size isolation transformer requirement
  - Loads due to extra equipment on the circuit (e.g. ILCMS equipment)
  - Spare CCR load
- The Isolation transformer efficiency is estimated and values can vary depending on supplier
- For IQ fixtures:
  - The minimum isolation transformer rating is 65W
  - An overhead of 12VA should be considered when determining the isolation transformer rating, to allow for communication bandwidth
- For fail-open fixtures, the maximum isolation transformer rating is 200W
- The Reliance 2A system does not conform to the above data (contact your local ADB Safegate representative)

For more information about the product, including manuals and certifications, please see our Product Center on the ADB SAFEGATE website: [www.adbsafegate.com](http://www.adbsafegate.com).

[www.adbsafegate.com](http://www.adbsafegate.com)

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