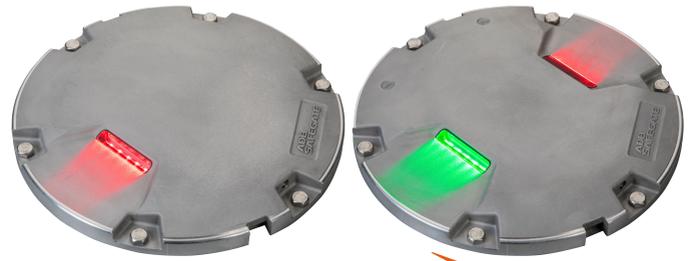


# AXON

L-850D(L) LED Runway Threshold, End, Threshold/End  
Inset 12-inch



ADB SAFEGATE  
**AXON**

## Compliance with Standards (current version)

**FAA** AC 150/5345-46 and the FAA Engineering Brief No. 67, ETL certified

## Uses

### FAA

- L-850D(L) Runway threshold
- L-850D(L) Runway end
- L-850D(L) Runway threshold/end (bidirectional green and red)

## Features and Benefits

### Efficiency

- EQ has an integrated ILCMS remote for use with the LINC 360 system 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
- 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 ( $\leq 6.35$  mm) inset light fixtures
- No negative slope in front of the prisms

## Sustainability

- Fully encapsulated all-in-one universal power supplies for Runway, Taxiway, Approach and Omni inset families
- 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
- Fail-open option for compatibility with legacy monitoring systems and optimization of advanced control/ monitoring systems
- 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

- Non-Monitored — Power only
- Monitored — integrated Fail-open technology
- EQ with integrated ILCMS with OFDM technology for use with LINC 360 system



**ANNEX**

**12-inch light fixtures without Arctic Kit (heater)**

Fixture type – 1 cord set <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Threshold, L-850D(L), bidirectional, F-Green/red	36.6 VA	45 W	14.2 VA	50.8 VA
Runway Threshold, L-850D(L), bidirectional, red/red	46.6 VA	45 W	13 VA	59.6 VA
Runway Threshold, L-850D(L), unidirectional, F-Green	21.2 VA	25 W	6.8 VA	28 VA
Runway Threshold, L-850D(L), unidirectional, red	31.6 VA	25 W	9.5 VA	41.1 VA

**12-inch light fixtures with Arctic Kit (heater)**

Fixture type – 1 cord set <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Threshold, bidirectional, L-850D(L), F-Green/red	65.3 VA	65 W	16.2 VA	81.5 VA
Runway Threshold, L-850D(L), unidirectional, F-Green	49.4 VA	45 W	10 VA	59.4 VA

**Notes**

<sup>1</sup> Values provided are for the "S" option non-monitored power only.

**Note:**

- See user manual UM-5055 other power supplies.
- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Please Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- For fail-open fixtures:
  - The maximum rating for the isolation transformer is 200 W
- Additional voltage loss when longer secondary cables are used is not included in above table; these additional losses may result in a larger size isolation transformer requirement and must be factored into the circuit load calculation
- Additional voltage loss in primary cable is not included in above table; this additional loss will result in a higher CCR load and must be factored into the circuit load calculation
- Efficiency of the isolation transformer depends on the manufacturer of the transformer

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