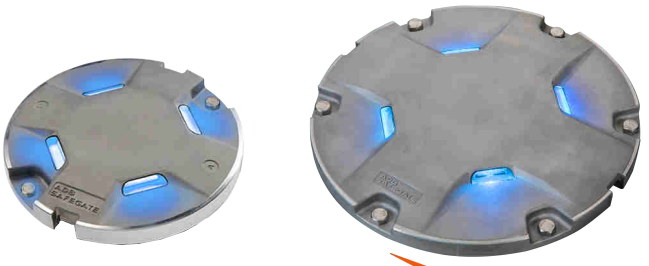
AXON

LED L-852T(L) Taxiway Edge

Omnidirectional Inset 8-inch and 12-inch



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Compliance with Standards (current version)

FAA	AC 150/5345-46 and FAA Engineering Brief No. 67; L-852T(L) ETL certified
ICAO	Annex 14, Volume 1
NATO	STANAG 3316
IEC	61827
EASA	CS-ADR-DSN
Canada	TP 312
Australia	MOS 139
US Navy	NAVAIR 5150AAA-2, WP 006-04
UFC	3-535-01

CE

Uses

The AXON 8- and 12-inch low-protrusion, protected prism, omni-directional inset LED light fixture is provided with blue or yellow LEDs. This fixture, with an infrared (IR) option, can be used in the following applications:

- L-852T(L) Taxiway Edge
- NAVAIR Edge
- UFC Edge
- Intermediate Holding Position (MOS)

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 (≤ 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
- 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 and 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 1.2/50µS – 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

Power Supply Options

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

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Ordering Code

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Primary Standard
1 = FAA / ICAO[1]

Market Specific
0 = None
1 = Buy American Preference (BAP)[2]

Dimensions
1 = 8 inch (203 mm) diameter
2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm; L-868B mount)[3]

Prism
P = 4 protected prisms

Beam Orientation
3 = Omnidirectional

Toe-in
N= Not applicable

Color
B = Blue
Y = Yellow[5]
1 = Infrared Blue[5]
2 = Infrared Yellow[5]

N= Not applicable

Power and Monitoring
S = 2.8 - 6.6 A, non-monitored — power only
M= 2.8 - 6.6 A, Fail-open monitoring
R = 2.8 - 6.6 A, EQ integrated LINC 360

Connector and Cable
1 = 1 x Style 6 2-pole plug, 2 individual wires[4]
2 = 1 x Style 1 2-pole plug, 2-core cable [4]
5 = 1 x Flat 3-pole plug, 3 individual wires[5]

Options
0 = None
1 = Arctic Kit

Version Control
1 = First version[6]
2 = Second version

Ordering Code Notes

EQ light fixtures are only available as a one connector option.

[1] Includes standards MOS (Intermediate Hold Position)/ UFC/ NAVAIR.

[2] Required for FAA when using AIP funds.

[3] L-867B base can mounting — Use 8-inch fixture with AA132820 adapter ring. Existing L-867B base must have a top flange with a 9.25 inch ID. L-867B bases made prior to 2007 will have a top flange with a 8-inch ID. Use 127A01125FTO adapter ring with 8-inch fixture for these applications.

[4] All Style 1 corded fixtures will include a ground lug. All Style 6 corded fixtures will be provided without a ground lug.

[5] Not ETL submitted

[6] First Version was only manufactured at Columbus Facility

Maintenance and Installation

The light fixture can be installed on an 8-inch or 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 UM-5091 for 8- and 12-inch lights and to the interoperability info for installation on 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%

Dimension and Weight

Dimension	203 mm / 8 in	305 mm / 12 in
Weight	2.8 kg / 6.1 lb (8 in)	6.3 kg / 13.89 lb (12 in)

ANNEX

8- and 12-inch light fixtures without Arctic Kit (heater)

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Taxiway Edge, L-852(T), omnidirectional	9.6 VA	15 W	5.1 VA	14.7 VA

8- and 12-inch light fixtures withArctic Kit (heater)

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Taxiway Edge, L-852(T), omnidirectional	66 VA	65 W	14 VA	80 VA

Notes

[1] Values provided are for the "S" option non-monitored power only.

Note:

- See user manual UM-5091 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
- 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 our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.

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