

AXON

L-852E(L) LED Taxiway Intersections

Omnidirectional Inset, 8-inch and 12-inch



Compliance with Standards (current versions)

FAA	AC 150/5345-46 and FAA Engineering Brief No. 67; L-852E(L) ETL certified
NAVAIR	5150AAA-2, WP 005-03
UFC	3-535-01
CE	

Uses

FAA, UFC

- L-852E(L) Taxiway Intersections , ≥ 1200 RVR

NAVAIR

- Taxiway Intersections, Low Intensity

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 of 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
- 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/ 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

Ordering Code

Application

LE = L-852E(L) Taxiway Intersection
≥ 1200 RVR, Yellow
NL = NAVAIR Taxiway Intersection
Low Intensity, Green

Standard

2 = FAA

Market-Specific

0 = None
1 = BAP

Dimensions

1 = 8 inch 2 bolt
2 = 12 inch

Prism

P = 4 protected prisms

Beam Orientation

3 = Omnidirectional

Toe-in

N = Not applicable

Colors (Side 1)

Y = Yellow
G = Green

Colors (Side 2)

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-pin plug, 2 individual wires
2 = 1 x Style 1 2-pole plug, 2 core cables

Options

0 = None
1 = Arctic Kit

Version

2 = Version 2

RS

Maintenance and Installation

Refer to the AXON protected Omni inset user manual UM-5091 for 8 & 12-inch lights and to 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

Relative humidity Up to 100%

Dimensions and Weight

Dimensions 203 mm (8 in) 304 mm (12 in)

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

ANNEX

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

Fixture type – 1 cord set ¹	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
L-852E(L) Taxiway Intersections, Omnidirectional	35 VA	45 W	9 VA	44 VA
Taxiway Intersections, Low Intensity, Omnidirectional	35 VA	45 W	9 VA	44 VA

8-inch and 12-inch light fixtures with Arctic Kit (heater)

Fixture type – 1 cord set ¹	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
L-852E(L) Taxiway Intersections, Omnidirectional	65 VA	65 W	10 VA	75 VA
Taxiway Intersections, Low Intensity, Omnidirectional	65 VA	65 W	10 VA	75 VA

Notes

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

Note:

- EQ fixtures:
 - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to 65 W on fixture with arctic kit 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.

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