

# AXON

## LED Taxiway Centerline ICAO

### Uni- and Bidirectional Inset 8-inch and 12-inch



#### Compliance with Standards (current version)

ICAO	Annex 14 Volume 1
IEC	61827
NATO	STANAG 3316
EASA	CS-ADR-DSN
STAC	PRO/STAC/SE/VIS
Canada	TP 312
Australia	MOS 139
CE	

#### Uses

##### ICAO

- Taxiway centerline
- Apron Stand Lead-in
- Intermediate holding position
- Turn pad light
- Enhanced taxiway centerline

#### 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
- At-a-Glance top cover identification to quickly differentiate runway fixtures from taxiway fixtures to minimize installation errors
- 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



## Dimensions and Weight

<b>Dimensions</b>	203 mm (8 in)	305 mm (12 in)
<b>Weight</b>	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 <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Taxiway Centerline Wide, bidirectional	13.5 VA	15 W	7.6 VA	21.1 VA
Taxiway Centerline Curved, bidirectional	12.4 VA	15 W	7.6 VA	20 VA
Taxiway Centerline Narrow, unidirectional	7.8 VA	15 W	10.1 VA	18 VA

Fixture type – 2 cord sets <sup>1</sup>	Fixture load		Isolation transformer				CCR load	
	Side 1	Side 2	Wattage		Load		Side 1	Side 2
			Side 1	Side 2	Side 1	Side 2		
Taxiway Centerline Narrow, bidirectional	10.9 VA	10.9 VA	15 W	15 W	7.9 VA	7.9 VA	18.6 VA	18.8 VA
Taxiway Centerline Wide, bidirectional	13.1 VA	13.1 VA	15 W	15 W	7.7 VA	7.7 VA	20.8 VA	20.8 VA

#### Notes

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

#### Note:

- See user manual UM-5056 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
- For fail-open fixtures:
  - The maximum dimension 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 ADB SAFEGATE Product Center at [www.adbsafegate](http://www.adbsafegate)

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