

AXON

LED Stopway , ≤ 45 m Width
Unidirectional Inset 12-inch



Compliance with Standards (current version)

ICAO Annex 14 Volume 1

Australia MOS 139

CE

Uses

ICAO and MOS

- Stopway 45m Wide Runway

Features and Benefits

Efficiency

- EQ has an integrated ILCMS remote for use with the 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
- 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 μ S – 8/20 μ S combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

Power Supply

Available in the following configurations :

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

Ordering Code

RS □ □ □ □ □ □ □ □ □ □ □ □

Application

SW= Stopway 45 m

Standards

3 = ICAO ¹

Market Specific

0 = None

Dimensions

2 = 12 inch (305 mm) diameter , 11.25 inch BC (285 mm).

Prism

S = Standard prism
R = Reinforced prism

Beam Orientation

1 = Unidirectional

Toe-in

L = Left
R = Right

Color (Side 1 – Left)

R = Red

Color (Side 2 – Right)

N = None

Power and Monitoring

S = 2.8 A - 6.6 A non-monitored - power only
M = 2.8 A - 6.6 A Fail-Open monitoring
R = 2.8 A - 6.6 A EQ integrated LINC 360

Cable and Connector ²

1 = 1 x Style 6 2-pole plug, 2 individual wires
2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable
5 = 1 x flat 3-pole plug, 3 individual wires

Options

0 = None
1 = Arctic Kit

Version Control

1 = Version 1

Note: Refer to user manual UM-5055 for the 8-inch or 12-inch lights and to the interoperability information 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%

Dimensions and Weight

Dimensions	305 mm (12 in)
Weight	6.8 kg / 15 lb (12 in)

¹ Includes standards NATO, EASA, STAC, TP 312 and MOS 139.

² All Style 1 corded fixtures will include a ground lug. All Style 6 or 3-pole corded fixtures will be provided with grounding screw(s).

Maintenance and Installation

The light fixture can be installed on a 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

ANNEX

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

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Stopway Unidirectional	34.9VA	45W	14.2VA	49.1VA

Note:

- See user manual UM-5055 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 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 our website: www.adbsafegate.com.