

AVIALITE®

Illumination through Imagination ✈

Compact - Lightweight - Robust - Reliable

ICAO Low Intensity Type B

Li-3272 Series

DESCRIPTION

AVIALITE Li-3272 Series is an LED aviation obstruction beacon that emits >42cd of aviation RED light. It exceeds both ICAO Low Intensity Type B and FAA L-810 requirement.

AVIALITE also have a **Twin-Lamp** Series in a two lamp configuration. It exist in two options:

a) Li-3272-T (Twin):

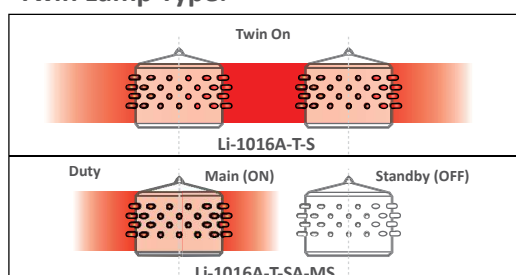
Both lamps switched on at the same time

b) Li-3272-T-MS (Twin, Main/standby):

One light switch on, other on standby

In the event a lamp-on-duty failed, the standby lamp shall be "automatically switched ON"

Twin Lamp Type:



FEATURE

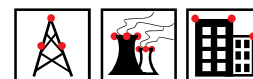
- :: High brightness LED light source
- :: Built tough for long service life
- :: Fully hermetically encapsulated circuits & components
- :: Compact, light weight, highly resistant to shocks & vibrations
- :: Excellent heat dissipation for optimum LED performance
- :: Weather proof (IP67), corrosion & chemical resistant
- :: No requirement for ground connection
- :: Expected LED bulb life exceeds 100,000 hours

PRODUCT BENEFIT

- :: Install on site with ease and minimum tools and manpower
- :: Virtually maintenance free operation and design
- :: Globally proven reliability and robustness
- :: Low wind drag and unobtrusive form
- :: Ultra low operation cost, quick ROI

APPLICATION

- :: Tall Buildings
- :: Wind Turbines, Bridges
- :: Telecommunication Towers
- :: Cranes, Pylons and Chimneys



TECHNICAL SPECIFICATION

OPTICAL CHARACTERISTIC

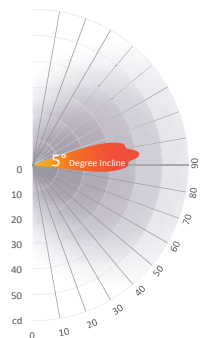
ICAO Type	Low Intensity ICAO Type B
LED Source	72 LED cluster
LED Size	5mm
Colour	Red Color
Luminous Intensity	>42 Candela (cd)
Vertical Beam Spread	15° with 5° upward inclination
Horizontal Beam Spread	360° omni-directional
LED Physical Properties	Advance optical grade epoxy with UV inhibitor, chemical and UV resistant



DIMENSIONS & WEIGHT (Approximate)

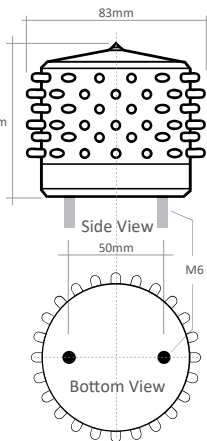
Height	80mm
Diameter	83mm
Weight	AC 0.53kg / DC 0.32Kg

Polar Diagram of Lamp



General Dimension

All dimensions in mm



MATERIAL PROPERTY

Body	UV & environment resistant resin
Mounting Bolt	Stainless steel M6 bolt/nut/spring washer



POWER

Operating Voltage	Customizable for AC or DC conditions (+/-10%)
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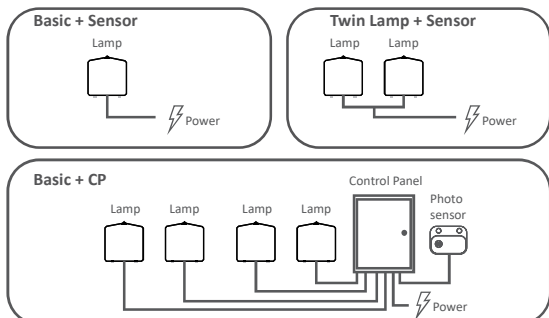
Surge Protection



AC up to 6.5KA
DC 48V up to 2KA

Lamp Configuration Examples :

* Illustration not to SCALE



OPERATING CONDITION

Temperature	-10°C to +80°C
Ingress Protection	IP67 (weatherproof)
Current Leakage Test	<10 μ A (micro Ampere)
Vibration Resistance	Resistant to shock and vibration



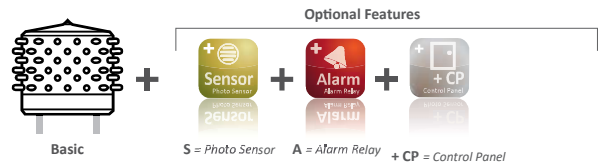
OPTIONAL SPECIFICATION

Sensor	Auto ON/OFF of lamp, Photocell embedded within lamp
Sensor	Ambient light
Light sensor sensitivity	< 150 Lux (\pm 10%) = Lamp 'ON' > 150 Lux (\pm 10%) = Lamp 'OFF'



Alarm

Alarm Relay Conditions	For remote monitoring of: A. Power supply failure; B. Lamp failure; C. >10% of LED in lamp fail, causing drop in lamp output
Lamp Failure Alarm Output	1. NO (Normally Open); 2. Com (Common); 3. NC (Normally Closed)



Models	Voltage (\pm 10%)	Frequency	Brightness	Current	VA	Power
Li-3272	240V AC	50/60Hz	42 cd	33mA	8.0	7.0W
	220V AC	50/60Hz	42 cd	30mA	6.6	6.0W
	54V DC	NA	42 cd	80mA	NA	4.3W
	48V DC	NA	42 cd	80mA	NA	3.9W
Li-3272-S	240V AC	50/60Hz	42 cd	33mA	8.0	7.0W
	220V AC	50/60Hz	42 cd	30mA	6.6	6.0W
	48V DC	NA	42 cd	80mA	NA	4.0W
Li-3272-SA	240V AC	50/60Hz	42 cd	33mA	8.0	7.0W
	220V AC	50/60Hz	42 cd	30mA	6.6	6.0W
	48V DC	NA	42 cd	80mA	NA	4.0W

