Airsafe

EUL-SB-LED

■ LED Elevated Taxiway Stop-bar Light

Compliance with Standards

CAAC:AC-137-CA-2015-01 & 03

SAC: GB/T 7256

ICAO: Annex 14, Volume I

IEC: TS 61827

FAA: AC 150/5345-46 & EB NO.67

NATO: STANAG 3316

Application/Use

Taxiway stop-bar light

Features

- LED is featured by long life, effective energy saving, maintenance-free, which brings enormous economic benefits to customer
- Proprietary optical design to ensure full lighting spot when the glass is partially obscured
- Strict LED color management to ensure premium color consistency
- Consistent dimming curve with halogen lamp fixture, complying with FAA standards
- Proprietary driving circuit and thermal management solution, which greatly improves the reliability and service life of light fixture
- Power factor above 0.9, which minimizes the power network interference
- Optional function of single lamp failure detection, which enables the light to be open as halogen lamp once LED fails
- Compact structure and attractive appearance, with small windward area and strong wind resistance capability
- The main body is made of aluminum alloy with anti-corrosion surface treatment, all fasteners are made of stainless steel, suitable for various harsh environment applications
- High-precision parts and components machining to ensure all dimensional quality and accuracy
- Forged frangible device with precise machining, complying with FAA standards, ensuring good stability and reliability
- IP65-grade ingress protection of the fixture, keep interior from dust
- The fixture can be connected with one or two-inch extension pole, convenient installation, firmness and reliability
- The calibrator can be directly mounted to the body with convenient and precise installation and calibration
- Interchangeable, modular-designed components, applicable for all kinds of elevated unidirectional lights(LED type), which effectively cuts down the inventories.



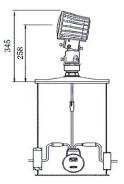
Ordering Information

EUL-SB-LED-R-X Type EUL-SB=elevated taxiway stop-bar light Light source LED=LED lamp Beam color R=red Optional function

M=single lamp function detection function

* Please provide detailed installation info while ordering, spare parts and accessories should be separately ordered with specific order no.

Installation



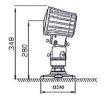


Fig 1. On 12" deep base

Fig 2. Flange direct mount

* Please find detailed information in installation manual

Structure



- 1. front cover
- 2. optical cover
- 3. optical cover gasket
- 4. LED lamp assy
- 5. light body
- 6. transformer
- 11. washer 12. hinge pin

7. driver assy

9. rear cover

8. light body gasket

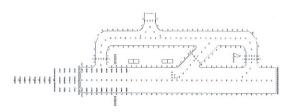
10. front adjusting screw

- 13. rear adjusting screw
- 14. side locking screw
- 15. set screw
- 16. body base 17.waterproof gland
- 18. plug



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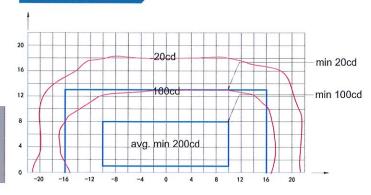


Specifications

Light source: 2 red LED particles

Power: 10 VA Power factor: ≥0.96 IP grade: IP65

Photometric Data



EUL-SB-LED (Red), ICAO Figure A2-12

		Main Beam		7	Required	Actual
Applic	ation	on H V		Color	min. cd	min. cd
EUL-SB -LED	ICAO Figure A2-12	±10°	1°—8°	Red	200	380

Packing Data

1 light

Size: 220×220×265 mm3

Unit net weight: 3.5 kg

Gross weight: 4.0 kg

Accessories

Description	Order No.
flange 240mm	276A1
flange 304mm (FAA standard)	27683
2" socket frangible coupling assy	924252
2" frangible coupling	924241
45-watt isolation transformer	ITF-045-066
secondary cable receptacle - style 7	70703
calibrator assy	954211
Isolation transformer housing	TJB-12

Spare Parts

Struc No.	Part Name	Order No.	Description
1	front cover	45515	front cover
2	optical cover	31108	front glass JJD
3	optical cover gaske	41110	front cover strip JJD seal
4	LED lamp assy	79242 -2-R	LED 103 (2-O), red
5	light body	241D1	LED light head assembly
6	transformer	79125	ring transformer(35W)
7	driver assy	979143	PCB-approach light-12X
8	light body gasket	41154	"O" ring seal 102×3
9	rear cover	92410	LED light rear cover
10	front adjusting screw	GB/T70.1 -2000	hex. socket head screws M8×35
11	washer	GB/T896- 1986	split washer 4- flat washer
12	hinge pin	45523	pin - head assembly hinge pin
13	rear adjusting screw	GB/T70.1 -2000	hex. socket head screws M8×30
14	side locking screw	GB/T70.1 -2000	hex. socket head screws M8×16
15	set screw	GB/T70.1 -2000	hex. socket head screws M8×16
16	body base	45517	pedestal JJD
17	waterproof gland	48404	metal water joint MG18×1.5
18	plug	HT 70603	secondary cable plug- Style 6



CERTIFICATE OF CONFORMITY

08/X29/1/6346743-1001-9, rev.1

TO: ICAO, Annex 14, Volume I, 7th Edition UNE-IEC/TS 61827, 1th Edition FAA AC 150/5345-46^E FAA EB 67D AENA PPT 015 -06/12

Products:

Airfield Lighting Lights EUL-XX-LED

Manufactured by:

Airsafe Airport Equipment Co., Ltd

Applications:

LED Elevated approach centerline light
LED Elevated approach cross-bar light
LED Elevated approach side-row light
LED Elevated runway threshold light
LED Elevated runway threshold wing-bar light
LED Elevated runway end light
LED Elevated taxiway stop-bar light

We hereby certify:

That we conducted an inspection, review and documental study of the characteristics of the above mentioned equipment based on the reports of tests carried by the laboratories:

Intertek and SQI - Shanghai Institute of Quality Inspection and Technical Research,

as Certified National Certification Body who carried out testing according to the IECEE CB Scheme for the Scope as listed in the relevant part of the IECEE Web Site at www.iecee.org.

On the base of all the foregoing, and in view of the results obtained; we confirm that: the elevated lights model **EUL-AP-LED,EUL-CB-LED,EUL-SR-LED, EUL-TH-LED, E**

FULFIL SATISFACTORILY

the demands and requirements of the above mentioned standards and of technical provisions of AENA referred in the present document, and specifically the specifications of the UNE-IEC/TS 61827 and AENA PPT 015 -06/12.

7	Elevated lights	Result
Test	Туре	lt fulfils
a.Dimensional test	6.2	Satisfactory
b. Test Environmental High temperature Low temperature Thermal shock Corrosion (saline sprayed) Electromagnetic compatibility Moisture	6.3.1.1 6.3.1.2.2 6.3.2.2 6.3.3.2 6.3.6. 6.3.4.	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory

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This certificate cancels and replaces the certificate with number 08/X29/1/6346743-1001-9



c. Test Structural Jet blast Frangibility	6.4.2.1 6.4.2.2	Satisfactory Satisfactory
d. Test Electrical Dielectric rigidity Creepage and clearance Resistance of isolation Electrical shock	6.5.1 6.5.2 6.5.3 6.5.4	Satisfactory Satisfactory Satisfactory Satisfactory
e. Functional test Photometry Chromaticity	6.6.1.1 6.6.2	Satisfactory Satisfactory
f. Endurance Test Accelerated life Test of useful rated life of LED's (10 lights)	6.7.1.2 6.7.2	Satisfactory Satisfactory

As well as the requirements listed to in ICAO Annex 14, Volume I, detailed below:

Clauste of Northean	Test	Test	Result It fulfils	
Elevated lights	Photometry	Chromaticity		
EUL-AP-LED	Figure A2-1 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-CB-LED	Figure A2-1 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-SR-LED	Figure A2-2 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-TH-LED	Figure A2-3 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-THW-LED	Figure A2-4 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-ED-LED	Figure A2-8 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	
EUL-SB-LED	Figure A2-12 -Appendix 2-	Figure A1-1b -Appendix 1-	Satisfactory	

As well as the requirements listed to in Annex A of the Technical Specification Sheets of Aena, specific for lights that employ LED technology, detailed below:

Essay	Elevated lights Type	Result It fulfils
a. Low Temperature	A.3.1.1	Satisfactory
b. Electromagnetic compatibility. Immunity to the Perturbations	A.3.1.2	Satisfactory
c. Intensity ratio	A.3.1.3	Satisfactory
d. High Temperature	A.3.1.4	Satisfactory
e. Electrical parameters	A.3.1.5	Satisfactory
f. Faults Monitoring System	A.3.1.6	Satisfactory

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g. Optional antifreeze	A.3.1.7	Satisfactory
h. Accelerated life	A.3.1.8	Satisfactory
i. Useful rated life of LED	A.3.1.9	Satisfactory
j. Test of Life of the Sources of Light	A.3.1.9.1	Satisfactory
k, Test of Colour Maintenance of the Sources of Light	A.3.1.9.2	Satisfactory
I. Flicker	A.3.1.10	Satisfactory
m. Photobiological Safety	A.3.1.11	Satisfactory

And for the record for the appropriate purposes we issue and sign this Certification in Barcelona, on December 11 of 2017.

Inspector Bureau Veritas

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