



**BUREAU
VERITAS**

CERTIFICATE OF CONFORMITY

08/X29/1/12145336-1001-7, Rev.0

TO:
ICAO, Annex 14, Volume I, 8th Edition
EASA CS-ADR-DSN, Issue 4, 8th December 2017
UNE-IEC/TS 61827, 1th Edition
FAA AC 150/5345-46E
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 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
LED Elevated runway guard 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-SR-LED, EUL-TH-LED, EUL-THW-LED, EUL-ED-LED, EUL-SB-LED and EUL-RG-LED** above referenced, manufactured by Airsafe Airport Equipment Co.Ltd., designed for airfield ground lighting applications,

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.

Test	Elevated lights	Result
	Type	It fulfils
<u>a.Dimensional test</u>	6.2	Satisfactory
<u>b. Test Environmental</u>		
High temperature	6.3.1.1	Satisfactory
Low temperature	6.3.1.2.2	Satisfactory
Thermal shock	6.3.2.2	Satisfactory
Corrosion (saline sprayed)	6.3.3.2	Satisfactory
Electromagnetic compatibility	6.3.6.	Satisfactory
Moisture	6.3.4.	Satisfactory

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This certificate cancels and replaces the certificate with number 08/X29/1/6346743-1001-9, Rev.3



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Test	Elevated lights	Result
	Type	It fulfils
<u>c. Test Structural</u> Jet blast Frangibility	6.4.2.1 6.4.2.2	Satisfactory Satisfactory
<u>d. Test Electrical</u> 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
<u>e. Functional test</u> Photometry Chromaticity	6.6.1.1 6.6.2	Satisfactory Satisfactory

As well as the requirements listed to in ICAO Annex 14, Volume I, and EASA CS-ADR-DSN, Issue 4, detailed below:

Elevated lights	ICAO		EASA		Result It fulfils
	Photometry test	Chromaticity test	Photometry test	Chromaticity test	
EUL-AP-LED	Figure A2-1 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-5 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-SR-LED	Figure A2-2 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-6 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-TH-LED	Figure A2-3 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-7 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-THW-LED	Figure A2-4 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-8 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-ED-LED	Figure A2-8 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-12 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-SB-LED	Figure A2-12 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
EUL-RG-LED	Figure A2-25 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-28 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory




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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	Result
	Type	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
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
l. 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 September 13 of 2021.

Location	Date	Name	Signature
Barcelona (Spain)	September 13 th , 2021	Laura Arcas (Technical Inspector)	
<i>Registration code.</i> 08/X29/1/6346743-1001-9 Revision 3, date January 2, 2019			
<i>Registration code.</i> 08/X29/1/12145336-1001-7 Revision 0, date September 13, 2021			