

# CERTIFICATE OF CONFORMITY

08/X29/1/12145336-1001-12, Rev.1

TO:  
**ICAO, Annex 14, Volume I, 8<sup>th</sup> Edition**  
**EASA CS-ADR-DSN, Issue 4, 8<sup>th</sup> December 2017**  
**UNE-IEC/TS 61827, 1<sup>th</sup> Edition**  
**FAA AC 150/5345-46E**  
**FAA EB 67D**  
**AENA PPT 018 -03/12**

Products:

Airfield Lighting Lights TCLMS-08-LED  
Airfield Lighting Lights SBLMS-08-LED  
Airfield Lighting Lights TPLMS-08-LED  
Airfield Lighting Lights IRGMS-08-LED  
Airfield Lighting Lights ASMS-08-LED

Manufactured by:

Airsafe Airport Equipment Co., Ltd

Applications:

8" LED In-pavement taxiway centerline light  
8" LED In-pavement stop-bar light  
8" LED In-pavement taxiway hold position light  
8" LED In-pavement runway guard light  
8" LED Aircraft stand maneuvering guidance stop 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](http://www.iecee.org).

On the base of all the foregoing, and in view of the results obtained; we confirm that:  
the inset lights model **TCLMS-08-LED, SBLMS-08-LED, TPLMS-08-LED, IRGMS-08-LED and ASMS-08-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 018 -03/12.



**BUREAU  
VERITAS**

Test	Inset lights	Result
	Type	It fulfils
<u>a. Dimensional test</u>	6.2	Satisfactory
<u>b. Test Environmental</u> High temperature Low temperature Thermal shock Corrosion (saline sprayed) Electromagnetic compatibility	6.3.1.1 6.3.1.2.1 6.3.2.1 6.3.3.1 6.3.6.	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory
<u>c. Test Structural</u> Static load Shear load Mechanic impact Hydraulic impact Vibration Watertightness Surface temperatura	6.4.1.1 6.4.1.2 6.4.1.3 6.4.1.4 6.4.1.5 6.4.1.6.1 6.4.1.7	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory 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
<u>f. Endurance Test</u> Accelerated life Test of useful rated life of LED's (10 lights)	6.7.1.1 6.7.2	Satisfactory Satisfactory

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


Inset lights	ICAO		EASA		Result
	Photometry test	Chromaticity test	Photometry test	Chromaticity test	It fulfils
TCLMS-08-LED	Figure A2-12, A2-14 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16, U-18 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory <sup>(1)</sup>
SBLMS-08-LED	Figure A2-12, A2-14 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16, U-18 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
TPLMS-08-LED	Figure A2-12, A2-14 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16, U-18 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
IRGMS-08-LED	Figure A2-12, A2-14 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16, U-18 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory
ASMS-08-LED	Figure A2-12, A2-14 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-16, U-18 -CS ADR- DSN.U.940-	Figure U-1B -CS ADR- DSN.U.930-	Satisfactory

(1) It complies with the recommendation of ICAO [Figure A2-12 (3) -Appendix 2-] and EASA [Figure U-16 (c) -CS ADR-DSN.U.940-] concerning the photometry test: Increased intensities for enhanced rapid exit taxiway centre line lights are four times the respective intensities in the figure (i.e. 800 cd for minimum average main beam).

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	Inset 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 <sup>th</sup> , 2021	Laura Arcas (Technical Inspector)	
<i>Registration code.</i> <b>08/X29/1/3953657-1001-4 Revision 0, date April 16, 2019</b>			
<i>Registration code.</i> <b>08/X29/1/12145336-1001-12 Revision 0, date September 13, 2021</b>			
<i>Registration code.</i> <b>08/X29/1/12145336-1001-12 Revision 1, date September 23, 2021</b>			