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# CERTIFICATE OF CONFORMITY

08/X29/1/6390306-1001-3, rev.3

TO:

ICAO, Annex 14, Volume I, 7<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 010 -03/12  
 AENA PPT 012 -03/12  
 AENA PPT 013 -03/12

Products:

Airfield Lights RCLS-08-LED  
 Airfield Lights TDZS-08-LED  
 Airfield Lights RAPS-08-LED  
 Airfield Lights ENDS-08-LED  
 Airfield Lights HRGS-08-LED

Manufactured by:

Airsafe Airport Equipment Co., Ltd

Applications:

8" LED In-pavement runway centerline light  
 8" LED In-pavement runway touchdown light  
 8" LED In-pavement rapid exit taxiway indicator light  
 8" LED In-pavement runway end light  
 8" LED In-pavement 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 laboratory:

## SQL - 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 **RCLS-08-LED, TDZS-08-LED, RAPS-08-LED, ENDS-08-LED and HRGS-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 PPTS.

Test	Inset 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	6.3.1.2.1	Satisfactory
Thermal shock	6.3.2.1	Satisfactory
Corrosion (saline sprayed)	6.3.3.1	Satisfactory
Electromagnetic compatibility	6.3.6.	Satisfactory

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This certificate cancels and replaces the certificate with number 08/X29/1/6390306-1001-3, rev.2



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<b>c. Test Structural</b> 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
<b>d. Test Electrical</b> 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
<b>e. Functional test</b> Photometry Chromaticity	6.6.1.1 6.6.2	Satisfactory Satisfactory
<b>f. Endurance Test</b> 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 It fulfils
	Photometry test	Chromaticity test	Photometry test	Chromaticity test	
RCLS-08-LED	Figure A2-6 Figure A2-7 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-10 Figure U-11 -CS ADR-DSN.U.940-	Figure U-1B -CS ADR-DSN.U.930-	Satisfactory
TDZS-08-LED	Figure A2-5 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-9 -CS ADR-DSN.U.940-	Figure U-1B -CS ADR-DSN.U.930-	Satisfactory
RAPS-08-LED	Figure A2-6 Figure A2-7 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-10 Figure U-11 -CS ADR-DSN.U.940-	Figure U-1B -CS ADR-DSN.U.930-	Satisfactory
ENDS-08-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
HRGS-08-LED	Figure A2-20 -Appendix 2-	Figure A1-1b -Appendix 1-	Figure U-24 -CS ADR-DSN.U.940-	Figure U-1B -CS ADR-DSN.U.930-	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	Inset 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



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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 May 31 of 2018.

Inspector Bureau Veritas

Laura Arcas

