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## CONFORMITY CERTIFICATE

08/X29/1/6344564-1001-1-ENG, rev.2

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 150/5345-46D  
 AENA PPT 018 -03/12

## CERTIFIES:

That, to request of the Company: Airsafe Airport Equipment Co., Ltd proceeds to the inspection, review and documental study technical equipment, recessed lights for airports runways model TCLM-08, SBLM-08, TPLM-08 and IRGM-08, based on the reports of tests carried by the laboratory SQI – Shanghai Institute of Quality Inspection and Technical Research, as National Certification Body and to carry out testing within 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) :

Reference

TCLM-08  
 SBLM-08  
 TPLM-08  
 IRGM-08

Application

8" for taxiway centerline  
 8" for in-pavement stop-bar  
 8" for taxiway hold position  
 8" for in-pavement runway guard

That all the foregoing, and in view of the results obtained, is considered that:

The inset lights model **TCLM-08, SBLM-08, TPLM-08 and IRGM-08** above referenced, manufactured by Airsafe Airport Equipment Co.,Ltd., destined for aeronautical lighting applications, FULFIL SATISFACTORILY the demands and requirements of the standards and technical requisites of Aena referred in the present document, and specifically the specifications of the UNE-IEC/TS 61827:

| 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 |
| <u>c. Test Structural</u>    |              |              |
| Static load                  | 6.4.1.1      | Satisfactory |
| Shear load                   | 6.4.1.2      | Satisfactory |
| Mechanical impact            | 6.4.1.3      | Satisfactory |
| Hydraulic impact             | 6.4.1.4      | Satisfactory |
| Vibration                    | 6.4.1.5      | Satisfactory |
| Watertightness               | 6.4.1.6.1    | Satisfactory |
| Surface temperatura          | 6.4.1.7      | Satisfactory |
| <u>d. Test Electrical</u>    |              |              |
| Dielectric rigidity          | 6.5.1        | Satisfactory |
| Creepage and clearance       | 6.5.2        | Satisfactory |
| Resistance of isolation      | 6.5.3        | Satisfactory |
| Electrical shock             | 6.5.4        | Satisfactory |



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|   |                  |                              |
|---|------------------|------------------------------|
| And. Functional test<br>Photometry<br>Chromaticity                                      | 6.6.1.1<br>6.6.2 | Satisfactory<br>Satisfactory |
| f. Endurance Test<br>Accelerated life<br>Test of useful rated life of LED's (10 lights) | 6.7.1.1<br>6.7.2 | Satisfactory<br>Satisfactory |

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

| Inset lights | ICAO   |                              | EASA   |                                   | Result<br>It fulfils |
|--------------|--|------------------------------|--|-----------------------------------|----------------------|
|              | Photometry test                              | Chromaticity test            | Photometry test                                  | Chromaticity test                 |                      |
| TCLM-08      | Figure A2-12<br>Figure A2-14<br>-Appendix 2- | Figure A1-1a<br>-Appendix 1- | Figure U-16<br>Figure U-18<br>-CS ADR-DSN.U.940- | Figure U-1A<br>-CS ADR-DSN.U.930- | Satisfactory         |
| SBLM-08      | Figure A2-12<br>-Appendix 2-                 | Figure A1-1a<br>-Appendix 1- | Figure U-16<br>-CS ADR-DSN.U.940-                | Figure U-1A<br>-CS ADR-DSN.U.930- | Satisfactory         |
| TPLM-08      | Figure A2-12<br>-Appendix 2-                 | Figure A1-1a<br>-Appendix 1- | Figure U-16<br>-CS ADR-DSN.U.940-                | Figure U-1A<br>-CS ADR-DSN.U.930- | Satisfactory         |
| IRGM-08      | Figure A2-12<br>-Appendix 2-                 | Figure A1-1a<br>-Appendix 1- | Figure U-16<br>-CS ADR-DSN.U.940-                | Figure U-1A<br>-CS ADR-DSN.U.930- | Satisfactory         |

And for the record for the appropriate purposes is issued and signed this Certification in Barcelona, to May 31 of 2018.

**Inspector Bureau Veritas**  
Laura Arcas