VERIFICATION CERTIFICATE

C900951

Aerodrome lights

Issued to

ADB Safegate BV

Leuvensesteenweg 585, BE-1930 ZAVENTEM, Belgium

Product name

AXON Approach Approach Centerline and Crossbar light (White)
AXON Approach Side Row light (Red)

Certificate

The product(s) described in this certificate have been type-examined by RISE with regard to the **chromaticity coordinates and luminous intensity** distribution and found to fulfil the requirements specified below. The type examination is presented in full in test reports 105105-1210777-1rev1, dated 2023-10-03 and 105105-1213322-1 dated 2023-10-18 .

Product description and specification

Products tested:

a) RSAC3x2x1xWNxxx1 (Approach Centerline) (limited to distances from threshold to 315 m and 316 to 475 m)
b) RSAS3x2x1xRNxxx1 (Approach Side Row)
Note: x indicates variants without impact on photometry or chromaticity characteristics

Requirements:

Standard	The chromaticity coordinates have been measured in accordance with the requirements in:	The luminous intensity has been measured in accordance with:
ICAO Annex 14 Aerodromes, Volume I, Ninth Edition, July 2022	Appendix 1, Section 2.1 Chromaticities for aeronautical ground lights (solid state-type light sources).	Appendix 2 Aeronautical ground light characteristics, Figures A2-1 (a) and A2-2 (b)
European Aviation Safety Agency - Certification Specifications and Guidance Material for Aerodromes Design, Issue 6, March 2022	Section U.930(d), Figure U-1B, Colours for aeronautical ground lights (solid state lighting)	U.940 – Aeronautical ground light characteristics, Figures U5 (a) and U-6 (b)
Australian Government, Civil Aviation Safety Authority Part 139 (Aerodromes) Manual of Standards 2020	Chapter 9.15, Chromaticity for solid state (LED) lights	Section 9.43 Isocandela diagrams for approach lighting, Figures 9.43 (1)-1 (a) and 9.43 (1)-2 (b)
TP312 Aerodrome Standards and Recommended Practices Land Aerodromes, 5th Edition, September 2015 (Canada)	Appendix 5A, Section 1.3.1, Colours for Aeronautical Ground Lights	Appendix 5B Aeronautical Ground Light Characteristics, Figures B-1 (a) and B-2 (b)
NATO STANAG 3316 AATMP-07 STD Edition A Version 1/2018	Section 8.3 Colours of Lights, Signs and Panels.	Chapter 3 Approach Lighting
Civil Aviation Authority CAP168 Licensing of Aerodromes, Edition 12, January 2022 (United Kingdom)	Appendix 6A.5 Aeronautical ground lighting characteristics	Appendix 6A Aeronautical ground lighting characteristics, Figures 6A.1 (a) and 6A.2 (b)
AENA DIN/DSEYN/PPT/XXX where XXX is one of: 010, 011, 012, 013, 016, 017, 018, or 022 (2012) (Spain)	AENA DIN/DSEYN/PPT/010-03/12, which refers to BOE 178 FOM/2086/2011, Apendice 1	AENA DIN/DSEYN/PPT/010-03/12, which refers to BOE 178 FOM/2086/2011, Apendice 2, a) =Figure A2-1 b) = no figure present

Validity

This certificate is valid until not later than 2028-10-23. The validity of this certificate can be verified by RISE.

Miscellaneous

Other terms and conditions are set out in RISE certification rules for type-examination, SPCR 123.

Martin Tillander

Certificate 900951 | issue 1 | 2023-10-23

RISE Research Institutes of Sweden AB | Certification

Box 857, SE-50115 Borås, Sweden

+46 10 516 50 00 | certifiering@ri.se | www.ri.se