DECLARATION OF CONFORMITY

Manufacturer's declaration about conformity of ADB Safegate lights to aerodromes requirements

We herewith declare that the following light:

TLP Taxiway Centre Line Light, Bi-/Uni-directional, Straight/Curved, Green/Yellow and Red

- has been developed by ADB Safegate,
- is in compliance with the following standards and their respective requirements:
  - ICAO Annex 14 Aerodrome Standards and Recommended Practices - ASRP Vol 1 - Aerodrome Design And Operations, 8th Edition/2018:
    - §5.3.17 Taxiway centreline lights,
    - §5.3.20 Stop bars,
  - EASA - CERTIFICATION SPECIFICATIONS AERODROMES DESIGN - CS-ADR-DSN Issue 4/2017:
    - §CS ADR-DSN.M.710,
    - §CS ADR-DSN.M.715,
    - §CS ADR-DSN.M.730,
  - TCCA CAR PART 3 TP312-AERODROME STANDARDS and RECOMMENDED PRACTICES 5th Edition/2015:
    - §5.3.21 Taxiway Centreline Lights,
    - §5.3.22 Taxiway Edge Lights,
    - §5.3.23 Stop Bars,
  - CASA MANUAL of STANDARDS -MOS PART 139 version 1.14/2017:
    - § Section 9.14: Isocandela Diagrams for Taxiway Lights
  - NATO STANAG 3316 AATMP-07 STD - AIRFIELD LIGHTING Edition A Version 1 / 2018:
    - §5.1 Taxiway Lighting (incl. Turn pad Lighting),
    - §5.2 Stop Bars,
  - Catalogue sheet "A.03.433e TLP".

The following survey operations have been carried out at an ISO17025 accredited laboratory without noticeable remarks:

- Examination of test equipment,
- Checking of installation of units before testing,
- Colorimetric tests per applicable procedure & method,
- Photometric tests per applicable procedures and method,
  - Results of intensity values inside the beam,
  - Isocandela curves,
- Test report MTt8P08694rev2,
- Appendices 1 & 2 : summary of testing.

Taking into account the satisfactory results of actual tests and examinations, we confirm that the manufacturing and the test results for the above specified units are in conformity with applicable standards, specification and data sheets.

This declaration supersedes the DC20190213.

Issued in Zaventem – Belgium by ADB Safegate BV.
June 3, 2020

Joshua McCraner
Director Quality Management

Appendix 1: Summary of testing according to ICAO specifications

ASSESSMENT

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Date: 2020-04-09

Reference: MTt8P08694-2

Page: 1 (2)

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Summary of testing of photometric properties of runway lights

Test object	Test report	Measurement date
ADB FEN-1-100-R Red)	MTt8P08694rev2	February 2019
ADB FAP-1-300-R (Red)	MTt8P08694rev2	February 2019
ADB FED-1-100-RM/N (Red)	MTt8P08694rev2	February 2019
ADB FTE-2-300-G/R (Red)	MTt8P08694rev2	February 2019
ADB FAP-1-300-C (White)	MTt8P08694rev2	February 2019
ADB FED-2-200-CM (White)	MTt8P08694rev2	February 2019
ADB FTH-1-200-G (Green)	MTt8P08694rev2	February 2019
ADB TLP-2_080_GY-S-2 (Green/Yellow)	MTt8P08694rev2	February 2019
ADB TLP-2_080_GY-C-2 (Green/Yellow)	MTt8P08694rev2	February 2019
ADB TLP-1_040_RN-S-1 (Red)	MTt8P08694rev2	February 2019

RISE Research Institutes of Sweden is accredited for photometric testing against ICAO Annex 14 *Aerodromes*, Volume I, July 2018.

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ASSESSMENT

Date 2020-04-09 Reference MTt8P08694-2 Page 2 (2)

Summary of results

Object	Test scope ICAO Annex 14 *Aerodromes*, Volume I, July 2018	Test result
ADB FEN-1-100-R	Runway end light Colour: Figure A1-1a Luminous intensity: Figure A2-8	Pass
ADB FAP-1-300-R	Approach side row light Colour: Figure A1-1a Luminous intensity: Figure A2-2	Pass
ADB FED-1-100-RM/N	Runway edge light Colour: Figure A1-1a Luminous intensity: Figures A2-9 and A2-10	Pass
ADB FTE-2-300-G/R	Threshold / Runway end light Colour: Figure A1-1a Luminous intensity: Figures A2-3 and A2-8	Pass
ADB FAP-1-300-C	Approach centre line light Colour: Figure A1-1a Luminous intensity: Figure A2-1	Pass
ADB FED-2-200-CM	Runway edge light Colour: Figure A1-1a Luminous intensity: Figures A2-9 and A2-10	Pass
ADB FTH-1-200-G	Threshold light Colour: Figure A1-1a Luminous intensity: Figure A2-3	Pass
ADB TLP-2_080_GY-S-2	Taxiway centre line light Colour: Figure A1-1a Luminous intensity: Figure A2-12	Pass
ADB TLP-2_080_GY-C-2	Taxiway centre line light Colour: Figure A1-1a Luminous intensity: Figure A2-14	Pass
ADB TLP-1_040_RN-S-1	Taxiway centre line light Colour: Figure A1-1a Luminous intensity: Figure A2-12	Pass

RISE Research Institutes of Sweden AB
Measurement Science and Technology - Time and Optics

Performed by

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Appendix 2: Summary of testing according to CASA MOS 139 specifications

ASSESSMENT

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Summary of testing of photometric properties of runway lights

Test object	Test report	Measurement date
ADB FEN-1-100-R Red)	MTt8P08694rev2	February 2019
ADB FAP-1-300-R (Red)	MTt8P08694rev2	February 2019
ADB FED-1-100-RM/N (Red)	MTt8P08694rev2	February 2019
ADB FTE-2-300-G/R (Red)	MTt8P08694rev2	February 2019
ADB FAP-1-300-C (White)	MTt8P08694rev2	February 2019
ADB FED-2-200-CM (White)	MTt8P08694rev2	February 2019
ADB FTH-1-200-G (Green)	MTt8P08694rev2	February 2019
ADB TLP-2_080_GY-S-2 (Green/Yellow)	MTt8P08694rev2	February 2019
ADB TLP-2_080_GY-C-2 (Green/Yellow)	MTt8P08694rev2	February 2019
ADB TLP-1_040_RN-S-1 (Red)	MTt8P08694rev2	February 2019

RISE Research Institutes of Sweden has performed measurements according to requirements in CASA (Civil Aviation and Safety Authority of Australia) MOS (Manual of Standards) Part 139 – Aerodromes, Version 1.13: March 2016.

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RISE

ASSESSMENT

Date: 2020-04-09 Reference: MTt8P08694-3 Page: 2 (2)

Summary of results

Object	Test scope CASA MOS 139 – Aerodromes, 1.13:2016	Test result
ADB FEN-1-100-R	Runway end light Colour: Figure 9.2-1 Luminous intensity: Figure 9.11-7	Pass
ADB FAP-1-300-R	Approach side row light Colour: Figure 9.2-1 Luminous intensity: Figure 9.8-2	Pass
ADB FED-1-100-RM/N	Runway edge light Colour: Figure 9.2-1 Luminous intensity: Figures 9.11-3 and 9.11-4	Pass
ADB FTE-2-300-G/R	Threshold / Runway end light Colour: Figure 9.2-1 Luminous intensity: Figures 9.11-5 and 9.11-7	Pass
ADB FAP-1-300-C	Approach centre line light Colour: Figure 9.2-1 Luminous intensity: Figure 9.8-1	Pass
ADB FED-2-200-CM	Runway edge light Colour: Figure 9.2-1 Luminous intensity: Figures 9.11-3 and 9.11-4	Pass
ADB FTH-1-200-G	Threshold light Colour: Figure 9.2-1 Luminous intensity: Figure 9.11-5	Pass
ADB TLP-2_080_GY-S-2	Taxiway centre line light Colour: Figure 9.2-1 Luminous intensity: Figure 9.14-3	Pass
ADB TLP-2_080_GY-C-2	Taxiway centre line light Colour: Figure 9.2-1 Luminous intensity: Figure 9.14-5	Pass
ADB TLP-1_040_RN-S-1	Taxiway centre line light Colour: Figure 9.2-1 Luminous intensity: Figure 9.14-3	Pass

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Measurement Science and Technology - Time and Optics

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