

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-21159-01-00 according to DIN EN ISO/IEC 17025:2018

Period of validity: 23.01.2019 to 22.01.2024

Date of issue: 26.02.2021

Holder of certificate:

Jiaxing Hella Lighting Co., Ltd

No. 1188 Kaixi Road

Jiaxing Economic & Technological Development Zone

JIAXING, ZHEJIANG PROVINCE 314001

P. R. CHINA

At the location:

Jiaxing Hella Lighting Co., Ltd

Nanjing R&D Branch Company

No. 9, Changping Street, Shuige Road, Jiangning District

NANJING, JIANGSU PROVINCE 211100

P. R. CHINA

Tests in the fields:

Environmental Testing, Photometric measurement

The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Environment Test	IEC 60068-2-1:2007-03	Environmental testing - Part 2-1: Tests - Test A: Cold	
	IEC 60068-2-2:2007-07	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
	IEC 60068-2-14:2009-01	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Only Na, Nb
	IEC 60068-2-30:2005-08	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic	
	IEC 60068-2-38:2009-01	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	
	IEC 60068-2-78:2012-01	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
	ISO 6270-2:2005-07	Environmental testing – Part 2: Procedure for exposing test specimens in condensation-water atmospheres Only perform: Constant-humidity condensation atmosphere	
	IEC 60068-2-6:2007-1	Environmental testing - Part 2-6: Tests – Test Fc: Vibration (sinusoidal)	
	IEC 60068-2-64:2008-04	Environmental testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance	
	ISO 9227:2017-03	Corrosion tests in artificial atmospheres – Salt spray tests	Only perform: NSS Test (5.2)
	ASTM B117-2011	Standard Practice for Operating Salt Spray (Fog) Apparatus	

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ISO 20653: 2013-02	Road vehicles — Degrees of protection (IP code) — Protection of electrical equipment against foreign objects, water and access	4.2 Table1 First code element: – 5K-dust-protected
	FMVSS108-2016	Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S14.5.3	4.2 Table1 second code element: – 3-water spray
	SAE J575e 1974	Lighting Equipment and Photometric Tests F, G	– 4-splash water
	DIN 40050 Part9 1993 5	Table1 Second characteristic numeral – 3-spraying, 4-splashing, 4k-splashing with increased pressure, 9k-high-pressure	– 4k-splash water with increased pressure – 9k-high pressure
Photometric measurement	DIN EN ISO 4892-2:013-06	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	Method A
	ECE R98 2012:2012-02	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF MOTOR VEHICLE HEADLAMPS EQUIPPED WITH GAS-DISCHARGE LIGHT SOURCES	6.2 Provisions concerning passing-beams 6.3 Provisions concerning driving-beam 6.4 Provisions concerning movable reflectors Annex 4 tests for stability of photometric performance of headlamps in operation Annex 8 Minimum requirement for conformity of production control procedures Annex 10 Instrumental verification of the” cut-off” for passing-beam headlamps

Period of validity: 23.01.2019 to 22.01.2024

Date of issue: 26.02.2021

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R19: 2013-12	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF POWER-DRIVEN VEHICLE FRONT FOG LAMPS	6 Illumination 6.3 In the case of Class B front fog lamps 6.4 In the case of Class F3 front fog lamps 7 Color Annex 2 Tolerance requirements for conformity of production control procedure Annex 5 Tests for stability of photometric performance of front fog lamps in operation Annex 9 Definition and sharpness of the cut-off line and aiming procedure by means of this cut-off line for Class F3 front fog lamp
	GB 4660-2016	Motor vehicle front fog lamps equipped with filament lamps 5.6, 6.5, 7.2, Annex A	
	SAE J583-2016	Front Fog Lamp 5.2.5, 5.3.2	
	FMVSS108-2016	Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S14.2.1, 14.4.1	

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R119: 2012-03 GB/T 30511 2014 SAE J852 2017	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF CORNERING LAMPS FOR POWER-DRIVEN VEHICLES Photometric characteristics of cornering lamps for motor vehicle 4.2, 4.3, 6.3 Front Cornering Lamps for Use on Motor Vehicles 5.1.5, 5.1.7	6 Intensity of light emitted 7. Test procedure Annex 3 Photometric measurements Annex 4 Color of white light Annex 5 Minimum requirement for conformity of production control procedures
Photometric measurement	ECE R7:2012-11 GB 5920-2008 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF FRONT AND REAR POSITION (SIDE) LAMPS, STOP-LAMPS AND END-OUTLINE MARKER LAMPS FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS Photometric characteristics of front and rear position lamps, end-outline marker lamps and stop lamps for motor vehicles and their trailers 5.2, 6, 8.4 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S7.2, S7.3, S7.9, S14.2.1, S14.4.1	6. Intensity of light emitted 7. Test procedure 8. Color of light emitted Annex 4 Photometric measurements Annex 5 Minimum requirements for conformity of production control Procedures Annex 6 Minimum requirements for sampling by an inspector

Period of validity: 23.01.2019 to 22.01.2024

Date of issue: 26.02.2021

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R6:2014-10 GB 17509 2008 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF DIRECTION INDICATORS FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS Photometric characteristics of direction indicators for motor vehicles and their trailers 6.5,7.12,8.4 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S7.1 Turn signal lamps, S14.2.1, S14.4.1	6. Intensity of light emitted 7. Test procedure 8. Color of light emitted Annex 4 Photometric measurements Annex 5 Minimum requirements for conformity of production control Procedures Annex 6 Minimum requirements for sampling by an inspector
Photometric measurement	ECE R23:2013-08 GB 15235-2007 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF REVERSING LAMPS FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS Photometric characteristics of reversing lamps for power-driven vehicles 5.5, 6.10, 7.4 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S7.6 Backup lamps	6. Intensity of light emitted 7. Test procedure 8. Color of light emitted Annex 3 Photometric measurements Annex 4 Minimum requirements for conformity of production control Procedures

Period of validity: 23.01.2019 to 22.01.2024

Date of issue: 26.02.2021

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R38: 2013-08 SAE J1319 2015 GB 11554-2008	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF REAR FOG LAMPS FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS Rear Fog Lamp Systems 5.1.5, 5.2 Photometric characteristics of rear fog lamp for power-driven vehicles and their trailers 4.2,4.3,6.3	6. Intensity of light emitted 7. Test procedure 9. Color of light emitted Annex 3 Photometric measurements Annex 4 Minimum requirements for conformity of production control Procedures
Photometric measurement	ECE R3: 2013-12 GB 11564-2008 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF RETRO-REFLECTING DEVICES FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS Retro-reflector device for motor vehicles 4.3,4.4,6.2 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S8.1 Reflex reflectors, S14.2.3, S14.4.1	Annex 6 Colorimetric specifications Annex 7 Photometric specifications Annex 17 Minimum requirements for conformity of production control Procedures

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R4: 2019-08 GB 18408-2015	UNIFORM PROVISIONS FOR THE APPROVAL OF DEVICES FOR THE ILLUMINATION OF REAR REGISTRATION PLATES OF MOTOR VEHICLES Photometric characteristics of devices for the illumination of rear registration plates of motor vehicles and their trailers 6.2, 6.3	6. Color of light 9. Photometric characteristics Annex 3 Measurement points for test purposes Annex 6 Minimum requirements for conformity of production control Procedures
Photometric measurement	ECE R87: 2013-08 SAE J2087 2017 GB 23255 2009 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF DAYTIME RUNNING LAMPS FOR POWER-DRIVEN VEHICLES Daytime Running Light 5.1.5, 5.2 Photometric characteristics of daytime running lamps for power driven vehicles 5.7, 6.12, 7.4 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S7.10, S14.2.4, S14.4.1	7. Intensity of light 9. Color of light Annex 3 Photometric measurements Annex 4 Minimum requirements for conformity of production control Procedures

Annex to the accreditation certificate D-PL-21159-01-00

Department	Standard / In house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Photometric measurement	ECE R91: 2013-12 SAE J914 2014 GB 18099 2013 FMVSS108-2016	UNIFORM PROVISIONS CONCERNING THE APPROVAL OF SIDE-MARKER LAMPS FOR MOTOR VEHICLES AND THEIR TRAILERS Side Turn Signal Lamps for Vehicles Less than 12m in Length 5.7, 6.4, 6.6, 7.4 Photometric characteristics of side- marker lamps for motor vehicles and their trailers 5.2,5.3,7.4 Federal Motor Vehicle Safety Standard - Lamps, reflective devices, and associated equipment S7.4 Side marker lamps	7. Intensity of light emitted 8. Color of light emitted Annex 4 Photometric Measurement 9. Test procedere Annex 5 Minimum requirements for conformity of production control Procedures
Photometric measurement	GB4785: 2007	Prescription for installation of the external lighting and light-signaling devices for motor vehicles and their trailers	4.2 Color measurement