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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 11554-2008

**Photometric characteristics of rear fog lamp for power-driven
vehicles and their trailers**

机动车和挂车用后雾灯配光性能

(English Translation)

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Foreword

All the technical content of this Standard is mandatory.

This Standard corresponds to United Nations Economic Commission for Europe ECE R38 Rev.2 Amend.2 "Uniform Provisions Concerning the Approval of Rear Fog Lamps for Power-driven Vehicles and Their Trailers". This Standard is not equivalent to ECE R38, with the main differences as follows.

- it modifies Chapter 1 "Scope";
- it increases Normative References;
- it deletes the following chapters and annexes concerning management of ECE R38.

13 Names and addresses of Technical Services responsible for conducting

approval tests, and of Type Approval Authorities;

- it increases Inspection Rules.

The main technical specifications of this Standard are the same as ECE R38, such as Specifications and Test procedure.

This Standard replaces GB 11554-1998 "Uniform Provisions Concerning the Approval of Rear Fog Lamps for Power-driven Vehicles and Their Trailers". Compared with the previous edition, the main changes of this Standard are as follows.

- it modifies Chapter 1 "Scope" of the previous edition;
- it modifies Chapter 2 "Normative References" of the previous edition;
- it modifies relevant provisions on Definitions in Chapter 3 of the previous edition;
- it modifies relevant provisions in the Technical specifications of Chapter 4 of the previous edition;
- it modifies Chapter 5 "Test procedure" of the previous edition;
- it modifies Chapter 6 "Inspection rules" of the previous edition;
- it increases relevant provisions on rear fog lamps equipped with light source modules; and
- it increases relevant provisions on rear fog lamps that use a variable intensity control.

For the newly-applied type approval tests of rear fog lamps for power-driven vehicles and their trailers, this Standard shall be implemented from January 1, 2010; and for the rear fog lamps for power-driven vehicles and their trailers which have passed type approval tests before the implementation of this Standard, this Standard shall be implemented from January 1, 2012.

This Standard was proposed by the National Development and Reform Commission. This Standard shall be under the jurisdiction of the National Technical Committee of Auto Standardization.

The drafting organization of this Standard. Shanghai Institute of Automotive Lamps.

1 Scope

This Standard specifies the technical specifications, test methods and inspection rules of rear fog lamps for motor vehicles and their trailers.

This Standard applies to all types of rear fog lamps for power-driven vehicles of categories L3, L4, L5, L7, M, N and trailer of category O.

In this Standard, the rear fog lamps of power-driven vehicles and their trailers are referred to as rear fog lamps.

L7 refers to four-wheeled motorcycles.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB 4599 Motor Vehicle Headlamps Equipped with Filament Lamps

GB 4785 Prescription for Installation of the External Lighting and Light-Signalling Devices for Motor Vehicles and Their Trailers

3 Terms and Definitions

For the purpose of this Standard, the terms and definitions given in GB 4785 apply.

4.1.1 Rear fog lamps shall be so designed and constructed that under normal conditions of use and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Standard.

4.2.1 Within the angle range specified below, the luminous intensity of a rear fog lamp

in all directions shall meet the following specifications.

4.2.1.1 The intensity along the H-H and V-V axes, between 10° to the left and 10° to

the right and between 5° up and 5° down (see Figure 1), shall not be less than 150 cd.

4.2.2 In the case of a single lamp containing more than one light source, the lamp shall comply with the minimum intensity required when any one light source has failed and when all light sources are illuminated the maximum intensities shall not be exceeded.

4.2.3 The apparent surface in the direction of the reference axis shall not exceed 140

cm².

4.3 The colour and colorimetric characteristics of rear fog lamps shall meet the specifications of GB 4785.

4.4 Heat resistance test

The lamp must be subjected to a one-hour test of continuous operation following a warm-up period of 20 minutes.

5.1 The test darkroom, apparatus and equipment shall meet the specifications of GB

4599.

5.2.1 In the case of a lamp equipped with non-replaceable light sources (filament lamps and other), it shall be tested at 6.75 V, 13.5 V or 28.0 V respectively.

5.2.4 For any lamp except those equipped with filament lamps, the luminous intensities, measured after one minute and after 30 minutes of operation, shall comply with the specifications of 4.2. The luminous intensity distribution after one minute of operation can be calculated from the luminous intensity distribution after 30 minutes of operation by applying at each test point the ratio of luminous intensities measured at HV after one minute and after 30 minutes of operation.

Rhombus field

5.3.1 In the case of a lamp equipped with non-replaceable light sources (filament lamps and other), it shall be tested at 6.75 V, 13.5 V or 28.0 V respectively.

5.3.3 In the case of light sources equipped with a variable luminous intensity control,

the test shall be carried out under the conditions given at minimum 90 per cent of the higher luminous intensity.