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

GB/T 15766.2-2016

Replacing GB/T 15766.2-2007

Lamps for road vehicles -- Performance requirements

道路机动车辆灯泡 性能要求

(English Translation)

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Foreword

GB/T 15766 "Road motor vehicle light bulb" is divided into two parts.

- Part 1. Dimensions, optoelectronic performance requirements;
- Part 2. Performance requirements.

This part is part 2 of GB/T 15766.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 15766.2-2007 "Road motor vehicle filament lamp performance requirements".

This part compared with GB/T 15766.2-2007, the main technical content changes as follows.

--- "The satisfactory operation of the lamp" in "3.7 and 3.8" is changed to "the performance of the lamp meets the requirements" (see 3.7 and 3.8, 2007) of 3.7 and 3.8);

- "Satisfaction" of "4.6 and 6.6 and B.1" was replaced by "satisfactory" (see 4.6, 6.6 and B.1, pages 4.6, 6.6 and B.1);

- "Use" in the title of "F.5 and F.6" is changed to "Use and processing" and F.5 is added "You can use Appendix H (H.2 ~ H.10) as additional information or as a substitute for text information ", F.6 added" You can also use the appendix H (H.2 ~ H.10) as additional information, or as an alternative to textual information "(see F.5 and F.6, 2007 F.5 and F.6);

- Added Appendix H (see Appendix H).

This part uses the re-drafting method to modify IEC 60810.:2013 (version 3.2) "Road motor vehicle light bulb performance requirements".

This section has structural changes as compared to IEC 60810.:2013.

--- modify 5.1 as paragraph;

The "note" in Table 3 is modified as paragraph;

--- "Note 1" in Table 4 is changed to paragraph, and "Note 2" is changed to "Note".

The technical differences between this section and IEC 60810.:2013 are as follows.

--- on the normative reference documents, this part has made a technical differences in the adjustment to meet China's technical conditions, adjust the situation the situation is reflected in Chapter 2, "Normative references", as follows.

Replace GB 60050 (845) with the GB/T 2900.65-2004 with international standard. 1987, GB/T 2900.65-2004 is fully consistent with Section 845 of IEC 60050 (see Chapters 1 and 3);

Replace IEC 60068-2-6.:1995 (see B.1) with GB/T 2423.10-2008 equivalent to the international standard;

--- LED light source in the automotive application is in a rapid development stage, the technology is not yet mature, the international standard changes are faster, not suitable for conversion to national standards. In addition GB 15766.2 and GB 15766.1 (refer to IEC 60809) supporting the use of, in the current GB 15766.1 does not have the LED light source model loose-leaf, so GB 15766.2 should not contain LED related content. Removed IEC 60810.:2013 LED related content, the specific contents are as follows.

- Note 1 in Note 1, Note 3;
- Chapter 2 IEC 60061-1, IEC 60068-2-14, CISPR25 and UN/ECERegulationNo.128;
- Note 3 of 3.4 in Chapter 3, 3.11 to 3.15;

Chapter 7;

- Appendix I.

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

Environmental testing for electric and electronic products - Part 2. Test methods - Vibration, shock and the like - GB/T 2423.43-2008.

Installation of mechanical test samples (IEC 60068-2-47.:2005, IDT) Electric shock generation system (equipment) Performance characteristics (ISO 5344.:2004, IDT) GB/T 7670-2009 Road vehicles - Bulb dimensions, optoelectronic performance requirements (IEC 60809.:2004, NEQ) GB 15766.1-2008.

This part is made by the China Light Industry Federation.

This part of the National Lighting Standardization Technical Committee (SAC/TC224) centralized.

This part of the drafting unit. Foshan Electric Lighting Co., Ltd., Philips (China) Investment Co., Ltd., Beijing Electric Light Source Research Institute.

This part of the main drafters. Wei Bin, Wu Ping, Duan Yanfang, Zheng Yanfeng, Zhao Xiurong.

This part of the previous version of the standard to replace the release of the situation.

GB/T 15766.2-1995, GB/T 15766.2-2000, GB/T 15766.2-2007.

Road motor vehicle light bulb performance requirements

1 Scope

This part of GB/T 15766 applies to replaceable bulbs used in road motor vehicle headlamps, fog lamps and semaphores (filament bulbs and discharge lights). Particularly applicable to the lamps listed in IEC 60809. This part also applies to other bulbs that fall within this section.

This part specifies the requirements and test methods for lamp life, luminous flux maintenance, torque strength, glass bulb strength and vibration and shock resistance.

law. In addition, the temperature limit, the maximum profile of the bulb and the maximum allowable voltage shock are given, as a design for lighting and electrical installations guide.

For some of the requirements given in this section, refer to the data in the tables in this section. For the bulbs not listed in the table, the relevant data is made up of Lamp manufacturer and distributor of responsibility.

These performance requirements are complementary to the basic requirements of IEC 60809. However, these performance requirements are not used by authorities the type of product approved for the purpose.

Note 1: In different vocabularies and standards, different terms are used for "incandescent lamps" (GB/T 2900.65-2004 845-07-

04) and "discharge lamp" (GB/T 2900.65 845-07-17). In this section, use the "filament lamp" (filament lamp and "discharge lamp". However, when writing only "lamp", only the two types of light bulbs are used, unless the context Explain the light bulb used to represent another category.

Note 2: This part does not apply to luminaires.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 2423.10-2008 Environmental testing for electric and electronic products - Part 2. Test methods - Test Fc. Vibration (sinusoidal) (IEC 60068-2-6.:1995, IDT) GB/T 2900.65-2004 Electrical terminology lighting [IEC 60050 (845). 1987, MOD] Environmental testing for electric and electronic products - Part 2-47. Test methods - Vibration, shock and similar power - IEC 60068-2-47.:1999 Test the installation of the test sample (Environmental testing-Part 2-47. Test methods-Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests) IEC 60410. 1973 Sampling programs and procedures for performance testing (Sampling plans and procedures for inspection by attributes IEC 60809.:2012 Road motor