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**Specification of Categories of Light Sources for Power-
Driven Vehicles**
机动车用光源的类型要求

(English Translation)

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Specification of Categories of Light Sources for Power-Driven Vehicles

1 SCOPE

This document specifies the requirements for categories of light sources for power-driven vehicles and gives the data sheets for categories of light sources for power-driven vehicles, which specify the dimensions, photoelectric characteristic parameters and technical requirements.

This document is applicable to the filament light sources, gas-discharge light sources and standardized LED light sources (hereinafter referred to as "LED light sources") fitted to the road lighting and light-signaling devices of power-driven vehicles of categories M, N, L and O.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 4785 Prescription for installation of the external lighting and light-signaling devices for motor vehicles and their trailers

GB/T 26178-2010 The measurement of luminous flux

GB/T 26184-2010 The measurement of absolute luminous intensity distributions

IEC 60061 Lamp caps and holders together with gauges for the control of interchangeability and safety

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB 4785 and the following apply.

3.1 light source

one or more elements for visible radiation, with a cap for mechanical and electrical connection, possibly assembled with one or more components to control the elements for visible radiation

3.2 filament light source

a light source where the only element for emitting light is one or more filaments when energized

3.3 gas-discharge light source

a light source where the only element for emitting light is a discharge arc producing electroluminescence when energized

3.4 LED light source

a light source where the only element for emitting light is one or more solid state junctions producing electroluminescence when energized, possibly completed with one or more elements for fluorescence-based conversion

Note: LED light source is also named as "light emitting diode light source".

3.5 LED substitute light source

a category of LED light sources with filament light sources in pair, which are fitted with a lamp cap with a different locating key structure from that of the corresponding category of filament light sources

3.6 standard light source

a special light source used for the testing of lighting and light-signaling devices

Note: Standard light source has reduced tolerances for dimensional and photoelectric

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