

ICS 29.140.99

CCS K71



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

GB/T 15039-2021

Replacing GB 15039-1994

Standard lamps of luminous intensity and total luminous flux

发光强度、总光通量标准灯泡

Issued on: November 26, 2021

Implemented on: June 1, 2022

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. This document replaces GB/T 15039-1994 "Luminous Intensity, Total Luminous Flux Standard Bulbs", which is mainly compared with GB/T 15039-1994 The technical changes are as follows:

---Modified the scope of application of the standard, stipulating that the standard lamp types include incandescent lamps, tungsten halogen lamps and LED lamps (see Chapter 1, Chapter 1 of the 1994 edition);

---Added the grading requirements and general requirements of luminous intensity standard lamps and total luminous flux standard lamps (see Chapter 4 and Chapter 5);

---Added the technical requirements and test methods for the angle characteristics of the luminous intensity standard lamp (see 6.4, 8.4). Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed by the China National Light Industry Council. This document is under the jurisdiction of the National Lighting Standardization Technical Committee (SAC/TC224). Drafting organizations of this document. Zhejiang Zhanzi Optoelectronics Co., Ltd., China Institute of Metrology, Xiamen Topstar Lighting Co., Ltd., China Home Appliance Light Source Quality Supervision and Inspection Center (Beijing), Hangzhou Yuanfang Optoelectronics Information Co., Ltd., Foshan Electrical Lighting Co., Ltd. The main drafters of this document. Zhan Yunxiang, Liu Hui, Gao Tao, Pan Jiagen, Wei Bin, Zhang Junbin, Jiang Xiaomei, Ye Guanrong, Xie Runqing. The previous releases of this document and the documents it replaced are as follows:

---First published in 1981 as GB n154-1981 "Luminous Intensity Luminous Flux Standard Bulb", first revised as GB/T in.1994 15039-1994 "Luminous intensity, total luminous flux standard bulb";

---This is the second revision. Luminous intensity, total luminous flux standard bulb

1 Scope

GB/T 15039-2021 is the Chinese national standard on standard lamps of luminous intensity and total luminous flux, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 26 November 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2022. Classification: ICS 29.140.99, CCS K71. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies luminous intensity standard lamps and total luminous flux standard lamps (hereinafter referred to as "standard lamps" or "lamps" when it will not cause misunderstanding) Classification, grading requirements, general requirements, technical requirements and test methods, and provide information on common types of incandescent lamps and halogen lamps Sexual information. This document applies to incandescent lamps, halogen tungsten lamps and LED standard lamps that maintain and transmit light measurement values. Other types of standard lamps such as If necessary, you can also refer to this document.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 2900.65 Electrical engineering terminology lighting

GB/T 10681-2009 Performance requirements for tungsten filament lamps for general lighting in households and similar occasions

GB/T 14094-2016 Tungsten halogen lamps (for non-motor vehicles) performance requirements

GB 14196.1 Safety requirements for incandescent lamps Part

3 Terms and definitions

The following terms and definitions defined in GB/T 2900.65 apply to this document.

3.1 Lumen maintenance rate The percentage of luminous flux to the initial luminous flux when the lamp burns to 70% of the rated life.

3.2 Luminousintensitymaintenancefactor The percentage of the luminous intensity when the lamp burns to 70% of the rated life and the initial luminous intensity.

4 Product classification and classification

Divided according to the working principle of the lamp, it can be divided into incandescent lamps, tungsten halogen lamps, LED lamps and other types of standard lamps.