

ICS 29.140.99
CCS K 71



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

GB 15040-1994

**Working standard lamps for the measurement of luminous flux
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: State Administration for Market Regulation

Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Product Category	
5 General requirements	
6 Technical requirements	
7 Environmental conditions and test requirements	
8 Test method	
Appendix A (informative) Examples of reference specifications for working light metering standard lamps for incandescent lamps	
Appendix B (informative) Example of reference specifications for tungsten halogen lamp working light metering standard lamp	

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 15040-1994 "Standard Light Bulbs for Ordinary Metering". Compared with GB/T 15040-1994, except for structural adjustment and compilation in addition to the editorial changes, the main technical changes are as follows.

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

---Modified the product classification (see Chapter 4, Chapter 4 of the 1994 edition);

---The general requirements for working test lights have been added (see Chapter 5);

---Added specific requirements for power supply and test equipment for testing (see 7.2).

1 Scope

This document stipulates the classification, general requirements, Technical requirements and test methods, and provides information about common models of incandescent lamps and tungsten halogen lamps for working light metering standard lamps.

This document is applicable to incandescent lamps, tungsten halogen lamps and LED standard lamps used as standard light sources when measuring luminous flux.

If necessary, standard lamps 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 1: Tungsten filament lamps for general lighting in households and similar occasions GB 14196.2 Safety requirements for incandescent lamps Part 2: Tungsten halogen lamps for general lighting in households and similar occasions GB 14196.3 Safety requirements for incandescent lamps Part 3: Tungsten halogen lamps (for non-motor vehicles) GB 24906 Safety requirements for self-ballasted LED lamps above 50V for general lighting GB/T 24908-2014 Non-directional self-ballasted LED lamps for general lighting performance requirements GB/T 29296-2012 Reflective self-ballasted LED lamp performance requirements

3 Terms and definitions

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

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

4 Product Classification

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

5.1 Safety requirements

Each type of lamp should meet the safety requirements corresponding to its type in Table 1.