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

GB/T 21656-2016

Replacing GB/T 21656-2008

**International lamp coding system (ILCOS)
(English Translation)**

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Reference

Foreword

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

This standard replaces GB/T 21656-2008 "International Code System for Light (ILCOS)", compared with GB/T 21656-2008.

The changes are as follows.

- normative reference documents added "IEC 60838-2-2 hybrid lamp holder section 2-2. LED module connector special requirements" Specification of reference documents. "IEC 60357 halogen (non-motor vehicle) performance requirements" and "IEC/T R60887 lamp

Bulb model naming method "(see Chapter 2);

- The basic structure of the letter part of the increase "D. LED module" (see 4.1);
- an overview of the length of the code added (see 4.3.1);
- Reflective lamp classification, the "ordinary R-type glass reflective tungsten light" to "R-type glass reflective tungsten light" (see 5.1.1);
- Improved translation of self-shielded lights (see 5.2.1);
- Replace "FDR Reflective Double Ended Fluorescent Lamp" with "FDR Built-in Reflector Double Ended Fluorescent Lamp" (see 5.3.1);
- Replace the "(40W) double-ended fluorescent lamp" in the example "with" double-ended fluorescent lamp (40W) ", " (36W or 40W) double-ended fluorescent lamp " for "double-ended fluorescent lamps (36W or 40W)" (see 5.3.2);
- Change the expression of SEQ to "Replace the high pressure mercury lamp's diffused coated oval bulb high pressure sodium lamp" (see 5.4);
- "Metal halide lamp" (see 5.7.1) of the next row of "MR Reflective Metal Halide Lamp"
- Added LED module (see 5.8);
- Added "DLED" content (see Appendix A);
- Added "reference" (see reference).

This standard uses the translation method equivalent to IEC 61231.:2010 "International Code System for Light (ILCOS)" (English version).

And the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

GB/T 14094-2016 halogen (non-motor vehicle) performance requirements (IEC 60357.:2011, NEQ) GB 14196.1-2008 Safety requirements for incandescent lamps - Part 1. Household and similar occasions - Tungsten filament lamps for general lighting (IEC 60432-1.:2005, IDT) GB 14196.2-2008 Safety requirements for incandescent lamps - Part 2. Household and similar occasions - General purpose halogen tungsten lamps (IEC 60432-2.:2005, IDT) GB 19651.3-2008 Hybrid lamps - Part 2-2. Particular requirements for connectors for LED modules (IEC 60838-2-2.

2006, IDT)

Metallic halide lamps (rare earth series) - Performance requirements (IEC 61167.:1998, NEQ) GB/T 24457-2009 QB/T 1112-2013 Model name method for lamp bulb (IEC/T R60887.:2010, IDT) this standard is proposed by the China Light Industry Federation.

This standard by the National Lighting Standardization Technical Committee (SAC/TC224)

centralized.

The drafting of this standard. Zhejiang Fangda Standard Information Co., Ltd., Hangzhou Han Lighting Co., Ltd., Foshan City, all electrical lighting Limited, Zhejiang Jingri Lighting Technology Co., Ltd., Beijing Electric Light Source Research Institute.

Introduction

Electric light industry continues to move forward to meet consumer demand. Electric light industry's innovative ability to make the type of light increasingly numerous many. In order to enable consumers and professionals to find the lights they need in a number of different products, a universal system for coding lights System came into being.

This code is not used to replace individual producers in their lights or product catalog used in the specific logo, but to refer to each other Purpose and at the right time to replace the existing countries and regions using the lamp coding system.

Note: This code does not provide all the technical features required to specify a lamp. To this end, it is necessary to query the corresponding lamp's standard and/or producer's documentation.

Lamp of the International Coding System (ILCOS)

1 Scope and purpose

This standard gives the rules of the international coding system for lights and covers all types of lamps, but does not include motor vehicle lights. This standard the code for the main type of lamp is specified; for other types of lamps, the code is coded in accordance with the applicable revision of this standard.

The purpose of the international coding system for lights is.

- to improve the transmission of different types of lights;
- to help in the interchangeability of products to discuss;
- creating a closer relationship between international standards and the literature of producers (for example, in the future, Out of coding);
- make it possible to replace the lamp correctly;
- used as a supplement on the lamp;

Replace the country and region coding system.

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.

IEC 60357 halogen (non-motor vehicle) performance requirements [Tungstenhalogenlamps (non-vehicle) -Performance specification] IEC 60432-1 incandescent lamp safety requirements - Part 1. Household and similar occasions - Safety requirements for tungsten filament for general lighting (Incandescentlamps-Safety specifications-Part 1. Tungstenfilamentlamps for domestic and similar general lighting purposes IEC 60432-2 incandescent lamp safety requirements - Part 2. Household and similar occasions - General requirements for halogen lamps for general lighting (Incandescentlamps-Safety specifications-Part 2. Tungstenhalogenlamps for domestic and similar general lighting purposes IEC 60838-2-2 Hybrid lamps - Part 2-2. Particular requirements for LED module connectors (Miscellaneous lamp holders-Part 2-2. Particular requirements-Connector for LED-modules) IEC/T R60887 lamp bulb model naming method (Glass bulb designation system for lamps) IEC 61167 Metal halide lamps (Metal halide lamps) CIE 29.2 Indoor Lighting Guide (Guide on interior lighting)

3 Coding principle

The international coding system for lights is based on the following principles.

--- The code is irrelevant to the producer of the lamp in terms of its contents and wording.

The relationship between the coding system and the international standards should be established.

The coding system should be recognized internationally. It is recognized that there are other coding systems with national and regional values, the use of international coding or a long process.