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

GB/T 39018-2026

Replacing GB/T 39018-2020

Lighting equipment - Non-active mode power measurement

照明设备 非主功能模式功率的测量

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 39018-2020 "Measurement of Power in Non-Main Function Modes of Intelligent Lighting Equipment", and is consistent with GB/T 39018-Compared to 2020, aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The scope of application has been changed (see Chapter 1, Chapter 1 of the 2020 edition);

---Definitions for some terms have been revised (see Chapter 3, Chapter 3 in the 2020 edition);

---Test conditions have been changed (see 4.3.1, version 4.3.1 of 2020);

---The testing for wired networks has been modified (see 4.5.2, version 4.5.2 of 2020);

---Tables 3 and 4 have been added (see 5.2.2 and 5.2.3).

This document is modified to adopt IEC 63103:2020 "Measurement of power in non-primary function modes of lighting equipment".

The technical differences between this document and IEC 63103:2023, and the reasons therefor, are as follows.

---IEC 60050-845 has been replaced by the normatively referenced GB/T 2900.65, GB/T 24826, and GB/T 39022, respectively.

IEC 62504 and IEC 63105 (see Chapter 3) are used to adapt to my country's technical conditions and increase operability.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Lighting Appliances (SAC/TC224).

1 Scope

This document describes the measurement of power consumption of electrical lighting equipment and electrical lighting equipment containing non-lighting components in non-primary function modes.

Quantification method.

This document does not specify performance requirements or energy consumption limits.

This document applies to the measurement of lighting equipment powered by a voltage not exceeding 1500VDC or 1000VAC.

This document aims to provide a reference for non-primary function mode power measurement in lighting equipment product standards. Non-primary function mode power measurement and...

The detailed information is specified in the product standard.

Note: Appendix A provides guidance on the details specified in the product standard.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 2900.65 Electrical Terminology - Lighting (GB/T 2900.65-2023, IEC 60050-845:2020, IDT) GB/T 24826 Terms and definitions for LED products and related equipment for general

lighting (GB/T 24826-2016, IEC 62504) 2014, IDT) GB/T 39022 Terms and Definitions for Lighting Systems and Related Equipment Data transmission equipment for the technology; harmonized standards covering the essential requirements of Article 3.2 of Directive.2014/53/EU.

3 Terms and Definitions

The terms and definitions defined in GB/T 2900.65, GB/T 24826, and GB/T 39022, as well as the following terms and definitions, apply to this document.

lighting equipment

A component or combination of components whose primary function is to provide lighting.

Examples. integrated lamps, non-integrated lamp control devices, luminaires, control devices, luminaires with cameras.

Note 1: Lighting equipment may also include non-lighting components that provide non-lighting functions.

Note 2: Within the main functions of lighting, this includes application scenarios such as garden lighting and ultraviolet sterilization and disinfection.

component

A component that cannot be further divided into smaller parts without losing its function.

Examples. light source, power supply, control unit.

[Source. GB/T 2900.83-2008, 151-11-21, with modifications] 3.3 Supply voltage; SV the voltage applied to a lighting fixture via an electrical connection to provide electrical power.