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

GB/T 21096-2026

Replacing GB/T 21096-2013

**Fluorescent ultraviolet lamps used for tanning - Measurement
and specification method**

保健用荧光紫外灯 测量和规范方法

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative References
3 Terms and Definitions
4 General measurement conditions
5 Test Requirements
6 Measurement and Calculation Procedures
7 Technical parameters of the lamps 6.
Appendix A (Normative) Test Method for Irradiance Maintenance Rate
Appendix B (Normative) Method for Determining the Optimal Ultraviolet Irradiance of Fluorescent Ultraviolet Lamps
Appendix C (Normative) Ultraviolet Spectroscopy
Appendix D (Normative) Reflectometer
Appendix E (Normative) Test Lamp Data Sheet
Reference

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 supersedes GB/T 21096-2013 "Measurement and Standard Methods for Fluorescent Ultraviolet Lamps for Health Care Use" and is consistent with GB/T 21096-2013.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- Added ignition point location information for single-ended lamps (see 4.2);
- Added information on the distance between the sensor and the lamp axis in the spectral radiometry system (see 5.2);
- Added detailed information on testing double-ended and single-ended UV fluorescent lamps in the measurement and calculation procedures (see 6.1);
- Added maintenance rate code to describe the attenuation of UV irradiance lamps during

use (see 6.5);

---A test method for irradiance maintenance rate has been added (see Appendix A);

---A reflectometer has been added (see Appendix D);

---A test lamp data sheet has been added (see Appendix E).

This document is modified to adopt IEC 61228:2020 "Measurement and standard methods for fluorescent ultraviolet lamps for health purposes".

---Appendix A corresponds to Appendix C of IEC 61228:2020;

---Appendix B corresponds to Appendix A of IEC 61228:2020;

---Appendix C corresponds to Appendix B of IEC 61228:2020.

The technical differences between this document and IEC 61228:2020, and the reasons therefor, are as follows.

---The term and definition of "nominal value" (see IEC 61228:2020, 3.9) have been removed to comply with the basic requirements of Chinese standards;

---IEC 61195 (see Chapter 1) has been replaced with the normatively referenced GB/T 18774 to facilitate inter-standard application;

---IEC 61199 has been replaced with the normatively referenced GB/T 16843 (see Chapter 1) to facilitate inter-standard application;

---CIE63 (see 5.1) has been replaced with the normatively referenced GB/T 26179 to facilitate inter-standard collaboration;

---IEC 60335-2-27 (see Annex C, Annex to IEC 61228:2020) has been replaced by the normatively referenced GB/T 4706.85.

B), to facilitate collaborative application between standards;

---ISO/CIE 28077.2016 (see Annex C, IEC 61228) has been replaced with the normatively referenced ISO/CIE 28077.2024.

Appendix B of 2020), as it has been repealed;

---IEC 60921 (see A.2, C.2 of IEC 61228:2020) has been replaced with the normatively referenced GB/T 14044 for ease of standardization.

Inter-standard collaborative applications;

---IEC 60929 (see A.3, C.3 of IEC 61228:2020) has been replaced with the normatively referenced GB/T 15144 for ease of standardization.

Inter-standard collaborative applications;

---IEC 61049 (see A.2, C.2 of IEC 61228:2020) has been replaced with the normatively

referenced GB/T 18504 for ease of standardization.

Inter-standard collaborative applications;

---IEC 60155 (see A.2, C.2 of IEC 61228:2020) has been replaced with the normatively referenced GB/T 20550 for ease of standardization.

---IEC 60061-1 (see Annex E) has been replaced with the normatively referenced GB/T 1406 (all parts) to facilitate inter-standard coordination.

application.

The following editorial changes have been made to this document.

---The type testing requirements in the scope are included in Chapter 8 (see Chapter 8, Chapter 1 of IEC 61228:2020);

---IEC 60050-845:1987 has been replaced by GB/T 2900.65-2023 (see Chapter 3) for informational reference;

---IEC 60335-2-27 (see 6.2) has been replaced by GB/T 4706.85, which is cited in the informational reference.

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, evaluation, and standardization methods for the ultraviolet radiation characteristics of fluorescent ultraviolet lamps used for health purposes, and specifies the requirements for such lamps.

The specific requirements of the will.

(Except for the value requirement) lamps.

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 1406 (All Parts) Types and Dimensions of Lamp Holders (IEC 60061-1) Note. GB/T 1406.1-2026 Types and dimensions of lamp holders - Part 1: Screw-in lamp holders (IEC 60061-1:2005, MOD);

GB/T 1406.2-2026 Types and dimensions of lamp holders - Part 2: Plug-in lamp holders (IEC 60061-1:2005, MOD);

GB/T 1406.3-2025 Types and dimensions of lamp holders - Part 3: Prefocusing lamp holders (IEC 60061-1:2022, MOD);

GB/T 1406.4-2026 Types and dimensions of lamp holders - Part 4: Miscellaneous lamp holders (IEC 60061-1:2005, MOD);

GB/T 1406.5-2026 Types and dimensions of lamp holders - Part 5: Bayonet lamp holders (IEC 60061-1:2005, MOD).

GB/T 4706.85 Safety of household and similar electrical appliances - Part 85: Particular requirements for light-emitting skin appliances (GB/T 4706.85-2024, IEC 60335-2-27:2019, IDT) GB/T 14044 Performance requirements for ballasts for tubular fluorescent lamps (GB/T 14044-2008, IEC 60921:2006, MOD) GB/T 15144 Performance requirements for AC and/or DC electronic control devices for tubular fluorescent lamps (GB/T 15144-2020) IEC 60929:2015, IDT GB/T 16843 Safety Specification for Single-Ended Fluorescent Lamps (GB/T 16843-2023, IEC 61199:2014, IDT) GB/T 18504 Performance requirements for capacitors used in circuits of tubular fluorescent lamps and other discharge lamps (GB/T 18504-2001, eqv) IEC 61049:1991) GB/T 20550 Glow starters for fluorescent lamps (GB/T 20550-2013, IEC 60155:2006, IDT) GB/T 26179 Measurement of Spectroradiance of Light Sources (GB/T 26179-2010, CIE63-1984, IDT) fications) Note. GB/T 10682-2010 Performance requirements for double-ended fluorescent lamps (IEC 60081:2005, NEQ)

3 Terms and Definitions

The following terms and definitions apply to this document.