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

GB/T 10682-2010

Replacing GB/T 10682-2002

Double-capped fluorescent lamps -- Performance specifications

双端荧光灯 性能要求

(English Translation)

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Foreword

The technical contents corresponding to the standard IEC 60081. Consistent "double-ended fluorescent lamps - Performance requirements" (in English), and IEC 60081 2005 the degree of non-equivalent.

This standard redrafted in accordance with IEC 60081.

This standard replaces GB/T 10682-2002 "double-ended fluorescent lamps - Performance requirements." this standard and GB/T 10682-2002 main differences are as follows.

--- Original GB/T 10682-2002 matrix form sets out the parameters of the double-ended fluorescent lamps, this revision in accordance with IEC standard Quasi original format, as a separate form for each parameter table specifications are given double-ended fluorescent lamps relates to the interchangeability (electrical parameters, Dimensions), the parameters of the control device and test conditions require more in line with international practice.

--- Original standard only four appendices. After this revision, the standard nine appendices. Appendix C which is placed in the body of the original standard While Appendix F is not the original standard. Respectively. A startup characteristics test method Appendix; photoelectric light and shade in Appendix B Pole characteristics of the test method; test method Appendix C lumen maintenance and lifetime; Appendix D chromaticity coordinates; Appendix E and ballast Start parameters; lighting design requirements of Appendix F Appendix G model naming, H inspection rules appendix, Appendix J flag, Packaging, transport and storage. After three appendices are based on China's national conditions, IEC 60081 is not in the three appendices.

--- This standard specifies the initial lamp luminous efficiency, as another example, instead of the provisions of the original standard initial flux. But it requires measured light flux the initial value of not less than 92% of the stated value of the luminous flux.

--- For the main varieties sold on the Chinese market, its luminous efficiency, lumen maintenance and lifetime of three key performance indicators proposed to begging. For either a halogen calcium phosphate phosphor, you can also use three-color phosphor fluorescent lamp, respectively, provides for performance indicators Mark. According to the development of Chinese electric light source industry revised its performance indicators in the revised index, the most luminous efficiency indicators and all lumen maintenance and life indicators have improved.

--- Increase 23W and 45W two kinds 26mm high frequency fluorescent lamp, see parameter table 7222,7422.

--- Increase correlated color temperature of 8000K fluorescent lamp of 26mm, 16mm high frequency fluorescent lamp performance.

This standard nine appendices, including Appendix A, Appendix B, Appendix C, Appendix

D, Appendix G, Appendix H, Appendix J are normative appendices, Appendix E, Appendix F for the informative appendix.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of electrical lighting (SAC/TC224) centralized.

This standard was drafted. Osram (China) Lighting Co., Ltd., Zhejiang Sunshine Group Co., Ltd., Zhejiang Chen Hui Lighting Limited Secretary, Xiamen Topstar Lighting Co., Ltd., Beijing Matsushita Lighting Co., Zhongshan Op lighting Co., Ltd., Jiangxi faction of light Technology Co., Ltd., the National Electric Light Source Quality Supervision and Inspection Center (Shanghai).

1 Scope

This standard specifies the double-ended fluorescent lamps for general lighting performance requirements.

This standard includes the following types of work lamps.

- a) operating in the frequency of the AC power line with a starter and can work in the high frequency preheat cathode lamp circuit;
- b) work on AC power frequency without starter (no starter) line and can operate at high frequencies resistance line high yin preheat Extremely light;
- c) work on AC power frequency without starter (no starter) line and can operate at high frequencies, low line resistance preheating overcast Extremely light;
- d) work in the high frequency preheat cathode lamp circuit;
- e) operating in AC power line frequency non-preheat cathode lamps;
- f) work on the high-frequency non-preheat line cathode lamps.

For some of the requirements of this standard given in the relevant lamp data sheet. This standard contains some kinds of lights data sheet. For this Standard range but did not provide other parameter table lamp types, lamp-related parameters is given by the lamp manufacturer or distributor.

2 Description

Compliance with this standard lamp, when used in line with GB/T 14044 or GB/T 15144 and compliance with ballast GB 20550 or GB/T 19655 Starter, and installed in compliance with GB 7000.1 lamps, the application of 92% to 106% of rated supply voltage, at 10 °C ~ 50 °C of when the ambient temperature of ignition can be smoothly started and work normally.

3 Normative References

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1406.2 lamp types and dimensions - Part 2. Pin-type lamp (GB/T 1406.2-2008, IEC 60061-1.

2005, MOD)

GB/T 1406.4 lamp types and dimensions Part 4. Miscellaneous cap (GB/T 1406.4-2008, IEC 60061-1.

2005, MOD)

GB/T 1483.2 Lamp caps Gauges - Part 2. pin-type lamp holder gauge (GB/T 1483.2-2008, IEC 60061-3:2004, MOD) GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan (GB/T 2828.1-2003, ISO 2859-1:1999, IDT) GB/T 2829 periodic inspection Sampling procedures and tables (for testing the stability of the production process) GB/T 2900.65 Electrotechnical terminology Lighting (GB/T 2900.65-2004, IEC 60050 (845). 1987, MOD) GB 7000.1-2007 Lamps - Part 1. General requirements and tests (IEC 60598-1:2003, IDT) GB/T 14044 for tubular fluorescent ballasts Performance requirements (GB/T 14044-2008, IEC 60921:2006, MOD) GB/T 15144-2009 tubular fluorescent lamps with electronic ballasts Performance requirements (IEC 60929:2006, MOD) GB/T 18504 tubular fluorescent and other discharge lamp circuits capacitors performance requirements (GB/T 18504-2001, eqvIEC 61049.

1991)