

ICS 27.010

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

中华人民共和国国家标准

GB 19044-2013

Replace GB 19044-2003

**Minimum allowable values of energy efficiency and the energy
efficiency grades of self-ballasted fluorescent lamps for
general lighting service**

普通照明用自镇流荧光灯能效限定值及能效等级

Issued on June 9, 2013

Implemented on October 1, 2013

**Issued by General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China and Standardization
Administration of the People's Republic of China**

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Foreword

The provisions in 4.3 of the Standard are mandatory, while the rest is recommended.

This Standard is drafted according to the rules specified in GB/T 1.1-2009.

This Standard replaces GB 19044 - 2003 *Minimum Allowable Values of Energy Efficiency and the Energy Efficiency Grades of Self-ballasted Fluorescent Lamps for General Lighting Service*. In addition to editorial modification, the main technical changes are as follows compared with GB 19044-2003:

- Deleted the original reference file GB / T 2828 and GB / T 2829, and added GB 16844 as a reference file;
- Using continuous calculation method of energy efficiency index using the formula replaces the original energy efficiency index using power segment;
- Increased lumen maintenance from the original 80% to 85%;
- Deleted the original Chapter 6 (inspection rules).

The Standard is proposed by Resource Conservation and Environmental Protection Division of National Development and Reform Commission and Energy Saving and Comprehensive Utilization Division of Ministry of Industry and Information Technology.

The Standard is centralized by National Energy Basis and Management Standardization Technical Committee SAC/TC 20.

This Standard is drafted by: China National Institute of Standardization, Beijing Lighting Research Institute, Beijing Institute of National Lighting Supervision and Inspection Center, Shanghai Institute of National Lighting Quality Supervision and Inspection Center, Zhejiang Yankon Electric Group Co., Ltd., Osram (China) Lighting Co., Ltd., Philips (China) investment Co., Ltd., Xiamen Topstar Lighting Co., Ltd., Shanghai Yaming Lighting Co., Ltd., Hangzhou Yuzhong Gaohong Lighting Electrical Equipment Co., Ltd., Zhejiang Ch Lighting Co., Ltd., Panasonic Lighting (Beijing) Co., Ltd.

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Issuances of all previous versions of the Standard are as follows:

----- GB 19044—2003.

Minimum allowable values of energy efficiency and the energy efficiency grades of self-ballasted fluorescent lamps for general lighting service

1 Scope

This Standard specifies the energy efficiency grades, energy efficiency limits, evaluating values of energy conservation and test methods of self-ballasted fluorescent lamps (Hereinafter referred to as: self-ballasted fluorescent lamps) for general lighting service.

This Standard applies to self-ballasted fluorescent lamps integrating start control and stable ignition components with the rated voltage of 220V, frequency 50Hz AC power, rated power at 3W~60W, with screw caps or bayonet caps, for domestic and similar general lighting services.

The Standard does not apply to self-ballasted fluorescent lamps with lampshades.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB 16844 Self-ballasted lamps for general lighting services - Safety requirements

GB/T 17263 Self-ballasted lamps for general lighting service--Performance requirements

3 Terms and definitions

For the purpose of this Standard, those defined in GB/T 17263 and the following terms and definitions apply.

3.1

Initial luminous efficacy for self-ballasted fluorescent lamps

Under standard test conditions, the ratio of self-ballasted fluorescent lamp measured initial luminous flux and power.

3.2

Minimum allowable values of energy efficiency for self-ballasted fluorescent lamps

Under the standard test conditions, the initial luminous efficacy for self-ballasted



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