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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 19043-2013

Replacing GB 19043-2003

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

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Foreword

The provisions in 4.3 of the Standard are mandatory; the rest are recommended.

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

This Standard replaces GB 19043-2013 *Minimum Allowable Values of Energy Efficiency and the Energy Efficiency Grades of Double-capped Fluorescent Lamps for General Lighting Service*. In addition to editorial modification, the main technical changes are as follows, compared with GB 19043-2013:

- Modify the scope of the Standard;
- Delete the technical requirements for minimum allowable values of energy efficiency for double-capped fluorescent lamps;
- Increase the initial luminous efficacy values of each energy efficiency grade of double-capped fluorescent lamps;
- Delete the inspection rules.

This Standard was 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.

This Standard shall be centralized by National Energy Basis and Management Standardization Technical Committee (SAC/TC 20).

Main drafting organizations of this Standard: China National Institute of Standardization, Beijing Lighting Research Institute, Osram (China) Lighting Co., Ltd., Shanghai Institute of National Lighting Quality Supervision and Inspection Center, Panasonic Lighting (Beijing) Co., Ltd., Zhejiang Yankon Group Co., Ltd., Philips Lighting Industry (China) Co., Ltd., Shanghai Yaming Lighting Co., Ltd., Zhejiang Chenhui Lighting Co., Ltd., and Zhejiang Shenghui Lighting Co., Ltd..

Main drafters of this Standard: Liang Xiuying, Zhao Yuejin, Zhang Junbin, Wang Lihong, Yu Anqi, Chen Yiping, Liu Shijun, Huang Zhengyong, Guo Pengxin, Zhou Yufei, and Lu Guangming.

The previous version of the Standard is as follows:

- GB 19043-2013.

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

1 Scope

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

This Standard applies to the following two operating types of lamps: preheating cathode lamp that can work in AC power supply frequency lines with starter, and can work in high frequency lines; and preheating cathode lamp that can work in high frequency lines.

2 Normative references

The articles contained in the following documents have become part of 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/T 10682 Double-capped fluorescent lamps - Performance specifications

GB 18774 Double-capped fluorescent lamps - Safety specifications

3 Terms and definitions

For the purpose of this Standard, those defined in GB/T 10682 AND the following terms and definitions apply to this document.

3.1

Initial luminous efficacy for double-capped fluorescent lamps

Under the standard test conditions, the ratio of measured initial luminous flux of double-capped fluorescent lamps AND the power, in the units of lm/W.

3.2

Minimum allowable values of energy efficiency for double-capped fluorescent lamps

Under the standard test conditions, the minimum standard value to which the initial luminous efficacy of the double-capped fluorescent lamps shall reach.

3.3

Evaluating values of energy conservation for double-capped fluorescent lamps

		39	High luminous flux series	6730	74	71	67	79	75	71
		49	High luminous flux series	6750	82	79	75	88	84	79
		54	High luminous flux series	6840	77	73	67	82	78	72
		80	High luminous flux series	6850	72	69	63	77	73	67
	26	16		7220	81	75	66	87	80	75
		23		7222	84	77	76	89	86	85
		32		7420	97	89	78	104	95	84
		45		7422	101	93	85	108	99	90

4.3 Minimum allowable values of energy efficiency and lumen maintenance of double-capped fluorescent lamps

The minimum allowable values of energy efficiency for double-capped fluorescent lamps is Grade 3 in Table 1. When it is ignited and lighted for 2000h, its lumen maintenance shall comply with the relevant provisions of GB/T 10682.

4.4 The energy conservation evaluation value and lumen maintenance of double-capped fluorescent lamps

The energy conservation evaluation value of double-capped fluorescent lamps is Grade 2 in Table 1. When it is ignited and lighted for 2000h, its lumen maintenance shall comply with the relevant provisions of GB/T 10682.

5 Test methods

The initial luminous efficiency, chromaticity coordinates, and lumen maintenance shall be tested in accordance with the test methods specified in GB/T 10682.

_____ **END** _____

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