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

GB/T 24908-2014

Replacing GB/T 24908-2010

**Self-ballasted LED lamps for general lighting services --
Performance requirements
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This standard replaces GB/T 24908-2010 "general lighting self-ballasted LED lamp performance requirements" and GB/T 24908-2010 Compared to the main technical changes are as follows.

--- Increasing the standard name "non-directional" limit the scope, the range accordingly deleted reflective self-ballasted LED lamp performance Claim;

--- Modify the scope of application (see Chapter 1, Chapter 1, 2010 edition);

--- Remove the GB/T 1406.2, GB/T 1406.3 and GB/T 1406.4 three references, an increase of GB/T 7249, GB/T 10681, GB 17743, GB/T 18595, GB/T 20145 and GB/T 31112 six reference documents (see Chapter 2, Chapter 2 of the 2010 edition);

--- Modify the definition of self-ballasted LED lamp, an increase of directional lighting, non-directional lighting, non-directional self-ballasted LED lights, the initial value, Power factor, early failure, the average life expectancy, the terms and definitions lumen maintenance, failure to delete the definition (see Chapter 3, Chapter 3 of the 2010 edition);

--- Revised Product Categories (see 41, 2010 version 4.1.), Modified the model to write rules (see 42, 2010 version 4.2.);

--- Modify the size and shape of the lamp cap requirements (see 52, 2010 version 5.2.);

--- Modify the lamp power, power factor requirements (see 5.3 and 54, 2010 version 5.3 and 5.4.);

--- Modify the initial luminous flux and luminous efficiency requirements (see 55, 2010

version 5.5.);

--- Modify the color characteristics of the requirements (see 56, 2010 version 5.6.);

--- Modify the life requirements (see 57, 2010 version 5.7.);

--- Modify the characteristics of the electromagnetic compatibility requirements (see 58, 2010 version 5.8.);

--- Increases the mass limit requirements (see 5.9);

--- Modify the logo and packaging requirements (see 510, 2010 version 8.1.);

--- Revised settlement test and routine test rule (see sections 7.2 and 7.3, 2010 version 7.2 and 7.3.);

The standard reference method using redrafted IEC 62612:2009 "General Lighting self-ballasted LED lamp performance requirements" preparation, and IEC 62612 is not equivalent degree of consistency.

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. Hangzhou phthalocyanine blue lighting Technology Co., Ltd., Xiamen Topstar Lighting Co., Ltd., Matsushita Electric Research and Development (Su State) Co., Ltd., Suzhou Bao Lai Thai Union Optical Co., Ltd., the National Electric Light Source Quality Supervision and Inspection Center (Beijing), Zhejiang Sunshine Lighting Appliance Set Group Co., Ltd., Foshan Electrical and Lighting Co., Ltd., Hengdian Group State Lighting Co., Limited Tak Hong (Fujian) Optoelectronics Technology the company, Taizhou billion Ka Electronic Technology Co., Ltd., Zhejiang glazing Lighting Co., Ltd. Hangzhou Hongyan Electric Co., Ltd., Hangzhou, Hangzhou shares SOLARPOWER Ltd., Zhejiang Shenghui Lighting Co., Ltd., Hangzhou Chong-Import & Export Co., Ltd. Nanjing Henderson Technology Co., Ltd., Huizhou City West Dayton Industrial Development Co., Ltd., Zhejiang Jinling Lighting & Electric Co., Ltd., Hangzhou Tiger Electronics Co., Ltd., Hangzhou Andhra Electronics Limited Division Ningbo Ya-mao Lighting Appliance Co., Ltd., Shanghai think twice Electronics Engineering Co., Ltd. Hangzhou sent Granville Power Co., Ltd. in Hangzhou have solid-state lighting Ltd., Beijing Institute of electric light.

1 Scope

This standard specifies the terms and definitions for general lighting with a non-directional self-ballasted LED lights, product classification and naming, technical requirements, test side Method and inspection rules.

This standard applies to domestic and similar general lighting as a stream, the stable

ignition components integrated as one of the non-directional self-ballasted LED lights.

Scope is as follows.

- Rated power less than 60W;
- Rated voltage AC220V, frequency 50Hz;
- Used in line with GB/T 1406.1 of the screw-on cap, or in line with GB/T 1406.5 bayonet cap.

Note: The "light" represents that appears in this standard "general lighting LED lights with a non-directional self-town", unless specified in other types of lamps.

Those who meet the requirements of this standard lamp, within the rated supply voltage of 92% to 106% or the nominal operating voltage range, ambient temperature Under conditions of -20 °C ~ 45 °C between the start and should be able to work properly.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 1406.1 lamp types and dimensions - Part 1. screw-on cap GB/T 1406.5 lamp types and dimensions - Part 5. Bayonet cap GB/T 1483.1 Lamp caps Gauges - Part 1. Screw-type lamp holder gauge GB/T 1483.5 Lamp caps Gauges - Part 5. bayonet lamp holder gauge GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan GB/T 2829 periodic inspection Sampling procedures and tables (suitable for process stability test) GB/T 7249 incandescent Maximum dimensions GB/T 10681 for domestic and similar general lighting purposes - Performance requirements GB 17625.1 Electromagnetic Compatibility Limits for harmonic current emissions (equipment input current $\leq 16\text{A}$) Limits and methods of measurement of radio disturbance characteristics of GB 17743 electrical lighting and similar equipment GB/T 18595 Equipment for general lighting EMC immunity requirements Light biosafety GB/T 20145 lamps and lamp systems GB/T 24824 LED modules for general lighting test methods GB/T 24826 for general lighting LED and LED modules terminology and definitions GB 24906 for general lighting 50V or more self-ballasted LED lamp safety requirements GB/T 31112 for general lighting with a non-directional self-ballasted LED lamp specifications Category

3 Terms and Definitions

GB/T 24826 and GB/T 31112 and defined by the following terms and definitions apply to this document.