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

GB/T 24458-2017

Replacing GB/T 24458-2009

**Ceramic metal halide lamps -- Performance specification
(English Translation)**

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
4 Classification and naming
5 Requirements
6 Test method
7 Inspection rules
8 Logo, packaging, transportation and storage
9 Lamp outline drawing
10 Lamp parameters Table
Appendix A (Normative) Working ballast and trigger requirements
Appendix B (Normative) Lighting Design Information
Appendix C (Normative) Photoelectric characteristics of double-ended ceramic metal halide lamp test special requirements
Figure C.1 lamp simulation device
Table 1 target color standard chromatic coordinates
Table 2 factory inspection items and qualified to determine the conditions
Table 3 type test items and the level of discrimination
Table 4 lamp outline size list
Table 5 List of lamp parameters
Table A.1 Open circuit voltage OCV
Table A.2 Temperature Rise Current (RMS)
Table A.3 lamp maximum voltage across
Table A.4 Lamp operating power
Table A.5 trigger technical parameters of the request
Table B.1 lamp voltage changes

Foreword

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

This standard replaces GB/T 24458-2009 "ceramic metal halide lamp performance

requirements", compared with the GB/T 24458-2009 main Technical changes are as follows.

--- For single-ended ceramic metal halide lamp, delete the 25W and 100W specifications, 20W lamp G12 specifications, 35W lamp E27 specifications and 250W lamp head G22 specifications and the corresponding parameter table; an increase of 45W, 60W, 90W and 140W of 2800K color temperature and PGZ12 lamp specifications, 140W and 150W lamp specifications for the E40, 210W and 315W lamp PGZ18 and PGZX18 specifications, an increase of 140W, 150W and 210W lamp for the E40 single-ended lamp specifications, 250W and 400W color temperature of 3000K specifications and the corresponding specifications of the above table;

--- For reflective single-ended ceramic metal halide lamp, delete the 25W, 100W and 150W specifications and the corresponding parameter table;

Increase 35W and 70W of R111 and lamp head GX8.5 specifications and the corresponding parameter table;

--- For double-ended ceramic metal halide lamp, remove the 100W specifications and its corresponding parameter table;

--- Increased cap lamp PGZ12, PGZ18/PGZX18 and GX8.5 lamp dimensions (see 9.2);

--- Table 1070-1 the glass temperature (max) to 350 °C; Table 1216,1218,1319 and 1321 of the glass shell temperature (max) change 700 °C;

--- The color value of the table Ra value of 93 changed to 90,83 to 80,88 to 85;

--- Removed 5.8 "lamp vibration resistance" and 6.7 "lamp vibration test";

--- This standard combined with the actual development of metal halide lamp in recent years in our country, with reference to the production of the main ceramic metal halide lamp Manufacturers of enterprise standards, the actual level of the product and measured data, revised the optical parameters and life expectancy and other technical indicators value.

This standard uses redrafted Law reference IEC 61167:2015 "metal halide lamp performance requirements" (version 3.0) prepared, and the degree of consistency of IEC 61167:2015 is not equivalent.

This standard proposed by the China Light Industry Federation.

This standard by the National Lighting Standardization Technical Committee electric light source and its accessories Technical Committee (SAC/TC224/SC1) Focused.

This standard was drafted. Hangzhou Han Light Co., Ltd., Philips Lighting (China) Investment Co., Ltd., Hefei, Hill Electronics Technology Co., Ltd., Zhejiang Xinguang Lighting Co., Ltd., Hangzhou Times Lighting Appliance Co., Ltd., Jiangsu Kaikai Electric Technology Co., Ltd., Zhejiang Yuguang Lighting Technology Co., Ltd., Jiangxi Province

Rare Earth Light Technology Co., Ltd., Shenyang Ming Yu Light Source Technology Co., Ltd.

1 Scope

This standard specifies the classification and naming of ceramic metal halide lamps, the main dimensions, basic parameters, technical requirements, test methods, test rules Then, signs, packaging, transportation and storage.

This standard applies to the power of 20W ~ 400W single-ended and double-ended ceramic metal halide lamp.

NOTE The "lamp" appearing in this standard stands for "ceramic metal halide lamp" unless otherwise specified.

In line with this standard and GB 19652 ceramic metal halide lamp, when used in line with the requirements of Appendix A and Appendix B of the ballast, trigger and lighting, the rated supply voltage of 92% to 106% range, you can start and burn normally.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging Pictorial signs (ISO 780) GB/T 1406.1 cap type and size - Part 1. Screw cap (IEC 60061-1) GB/T 1406.2 lamp type and size - Part 2 - Pin-type lamp (IEC 60061-1) GB/T 1406.4 lamp type and size - Part 4 Miscellaneous lamp (IEC 60061-1) GB/T 2828.1 Sampling procedures for sampling inspection - Part 1. Batch inspection sampling plan retrieved by acceptance quality limit (AQL) (ISO 2859-1) GB/T 2829 cycle test count sampling procedures and tables (for the stability of the test process) GB/T 2900.65 Electrotechnical terminology lighting [IEC 60050 (845)] GB 7000.1 lamps Part 1. General requirements and tests (IEC 60598-1) GB/T 13434 discharge lamps (excluding fluorescent lamps) characteristics of measurement methods GB/T 15042 Accessories for lamps - Ballasts for discharge lamps (excluding fluorescent tubes) - Performance requirements (IEC 60923) GB/T 18661-2008 Metal halide lamps (sodium scandium series) GB 19510.2 Lamp controlgear - Part 2. Particular requirements for starting devices (other than glow initiators) (IEC 61347-2-1) GB 19510.10 Lamp controlgear - Part 10. Particular requirements for ballasts for discharge lamps (other than fluorescent lamps) (IEC 61347-2-9) GB 19652-2005 discharge lamps (except fluorescent lamps) safety requirements (IEC 62035:1999, IDT) GB/T 19655 lamps with accessories starting device (except glow starter) performance requirements (IEC 60927) Biophotonic and Biosafety of GB/T 20145 Lamp and Lamp Systems (CIES009/E) QB/T 2274 electric light source product classification and model nomenclature

3 Terms and definitions

GB/T 2900.65 and GB/T 18661 as defined by the following terms and definitions apply to this document.

Ratedvalue

The value of the lamp characteristics declared by the manufacturer or distributor or specified in this standard when operating under specified conditions.