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

GB 3028-1982

Replacing GB/T 3028-1995

**Marine electric signal lights
(English Translation)**

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Foreword

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

This standard replaces GB/T 3028-1995 "marine electrical lights technical conditions", the main technical content compared with the GB/T 3028-1995 Changes are as follows.

--- The name of "marine electrical lights technical conditions" to "marine electrical lights";

--- Modify the standard reference;

--- Added "type, parameters and main dimensions" requirement (see 3.1);

--- Modify the "structure" requirement (see 3.2,1995 version 3.4);

--- Modify the "source" requirement, increase the LED light source requirements (see 3.2.3,1995 version 3.5);

--- Modify the "lamp holder" requirement, increase the LED lamp holder requirements (see 3.2.4,1995 version 3.5);

--- Added "Terminals" requirement (see 3.2.5);

--- Modify the "wiring" requirement (see 3.2.6,1995 version 3.6);

--- Added "endurance test and thermal test" requirements and test methods (see 3.7);

--- Increased "heat, fire and the resistance to tracking test" requirements and test methods (see 3.8);

--- Modify the "power fluctuations" requirements and test methods (see 3.14,1995 version

3.7.1);

--- Increased use of LED lights light electromagnetic compatibility requirements and test methods (see 3.18);

--- The enclosure protection rating IP55 by the modification of IP56 (see 3.19,1995 version 3.4.6);

--- Increasing the inner glow of lights at a predetermined angle, the minimum luminous arcs angle visibility distance and used to achieve the desired strength Luminous uniformity of requirements within the same time provides the lights off in the value of the light emitting angle at the boundary of the requirements (see 3.20).

Please note that some content of this document may involve patents, the issuing authority of this document does not assume responsibility for the identification of these patents.

The standard proposed by China State Shipbuilding Corporation.

This standard by the National Standardization Technical Committee Marine Boats (SAC/TC12) centralized.

This standard was drafted. Technical and Economic Research Institute of China Shipbuilding Industry, Marine Electric Co., Ltd. in Dalian.

1 Scope

This standard specifies the marine electric lights (hereinafter referred to as lights) requirements, test methods, inspection rules, labeling, packaging and storage.

This standard applies to AC (50Hz or 60Hz) or less at 250V DC power supply voltage and types of ships sailing with the lights (for Including sidelights, masthead light, stern lights, towing lights, round lights) design, production and acceptance.

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 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat GB/T 2423.4-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h 12h cycle) GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test J and guidance. Mould growth GB/T 2423.18-2008 Environmental testing for electric and electronic products Part 2. Test

methods - Test Kb. Salt mist, cyclic (chloride Sodium) GB 4208-2008 shell protection (IP code) GB 7000.1-2007 Luminaires - Part 1. General requirements and tests GB/T 7922-2008 lighting color measurement method Limits and test methods GB 17743-2007 radio disturbance characteristics of electrical lighting and similar equipment GB 17935 screw lampholders GB 17936 Cartridges bayonet GB 19651.3 Miscellaneous lampholders - Part 2-2. LED module with special requirements connector GB/T 24823 LED modules for general lighting - Performance requirements CB/T 338-2008 marine electrical lights type, parameters and main dimensions QB/T 2056 Marine Tungsten "1972 International Regulations for Preventing Collisions at sea," the International Maritime Organization and its amendments

3.1 Types, parameters and main dimensions

Types of lights, main parameters and dimensions shall comply with CB/T 338-2008 requirements of.

3.2.1 General requirements

General requirements for the structure of lights shall comply with the provisions of Chapter 4 GB 7000.1-2007.