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

GB/T 22191-2008

**Electrical installations in ships -- Equipment -- Luminaires and
accessories**

船舶电气设备 设备 灯具和附件

(English Translation)

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Foreword

This standard is identical with IEC 60092-306. 1980 "Electrical installations in ships - Part 306. Equipment - Luminaires and accessories" (English Chinese Version).

This standard is equivalent translation IEC 60092-306. 1980.

For ease of use, this standard made the following editorial changes.

--- "This International Standard" be replaced by "this standard";

--- With a decimal point instead of a comma as the decimal point, ",";

--- Delete international standards preface, introduction;

--- Of expression in accordance with the provisions of GB/T 1.1-2000 made changes.

The standard proposed by China State Shipbuilding Corporation.

This standard by the National Standardization Technical Committee boat ocean.

This standard was drafted. Technical and Economic Research Institute of China Shipbuilding Industry.

1 Scope

This standard applies to marine lamps. Mainly used for lighting fixed or portable lamps, also applies for the Channel, ports, etc.

Navigation with navigation lights and other fixtures.

This standard also applies to devices and electrical wiring related accessories.

This standard does not apply to battery flashlight.

2 General requirements

2.1

lamps shall comply with the relevant IEC publications as well as additional requirements of this standard.

Note: It should be noted, is being developed to include a variety of lamps and light source without restriction comprehensive publication. Before the advent of this publication, reference may be fluorescent fixtures IEC 60162 "fluorescent" lamps can refer to other existing member publications (if necessary, these publications will be mentioned in the following articles). The above publication it can be used as provisions and test these lamps guidelines.

3 Structure

3.1

lamps should be structured in line with IEC 60092-101 "Definitions and general requirements" and the following provisions.

Design and manufacture of lamps should be 3.2 channel insulated wire of sufficient size, and no rough projections, sharp corners and sharp bends. The the cable outlet should be smooth, rounded edges or be suitably bush.

3.3

lighting design and insulated conductor wire such that the stress should be laid on any terminal connected thereto are possible without external applied.

3.4

After lighting shall be so designed and installed insulation of live parts is not easy to accumulate dust and moisture.

Carrying parts 3.5 lamps should be insulated from the frame or housing.

3.6

All metal parts should be electrically connected to each other lamps, and shall be provided with appropriate terminal for the grounding. See Exceptions IEC 60092-401 "Installation and test of completed" 3.1 and Chapter 10 standards.

Strut 3.7 lampholder live parts of the fluorescent lamps should be at least fire-retardant material, at least in terms of the incandescent lamp should be non-combustible materials.

Base configuration, see.

--- IEC 60238 "spiral lamp holder";

--- IEC 60400 "tubular fluorescent lamps and starter housing." Note. The draft lampholder socket type being studied.

3.8

in accordance with the "shell protection" provisions of IEC 60529, the lamp structure should be at least IP2X degree of protection.

4 Temperature and temperature rise

Lighting structure should be sufficient dissipation of heat from the lamps, ballasts, capacitors and the like.

There may be touched runtime portion of the surface temperature should generally not exceed 60 °C.

Temperature rise of terminals connected to feeder cable should not exceed 40 °C.

Internal wiring and lighting should have the highest temperature of the corresponding temperature level.

Note: The temperature rise test shall be at the rated voltage, rated frequency and maximum rated power of the lamp, and the final temperature should not exceed the limit of 5 °C.

5 Standard version, lampholder

Lamp holder shall have the standard type listed in Table 1.

GB/T 22191-2008/IEC 60092-306. 1980