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

GB/T 41721-2022

**Small craft - Electric navigation lights - Performance of LED
lights**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 19009.2015 "Performance of LED Lights for Small Boat Navigation Lights".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the performance requirements, test methods and markings for light emitting diode (LED) navigation lights for permanent permanent use.

This document applies to boats under 24m.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

GB/T 26184-2010 Measurement method of absolute luminous intensity distribution (CIE70.1987, IDT)

ISO 11664-1 Colorimetry Part 1. CIE standard colorimetric observation (Colorimetry-Part 1. CIE standard colorimetric observation)

IEC 60068-2-27.2008 Environmental Testing Part 2-27. Test Methods Test Ea and

Guidelines. Shock (Environmental

Note. GB/T 2423.5-2019 Environmental Testing Part 2. Test Method Test Ea and Guidelines. Shock (IEC 60068-2-27.2008, IDT)

Code)]

Note. GB/T 4208-2017 Enclosure Protection Level (IP Code) (IEC 60529.2013, IDT)

IEC 60945.2002 General requirements for marine navigation and radiocommunication equipment and systems Test methods and test results

CIE15 Colorimetry

Sea, 1972)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

flashinglight

Flashes regularly at intervals of 120 times per minute or more.

3.2

navigationlight

Colored lighting sources used to indicate the position, heading and status of the vessel.