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

GB/T 39075.1-2023

Replacing GB/T 39075-2020

**Organic light emitting diode(OLED)light sources for general
lighting - Safety - Part 1: General requirements and tests**

普通照明用有机发光二极管（OLED）光源 安全 第1部分：一般要求和试验
(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 1 of GB/T 39075 "Safety of Organic Light-Emitting Diode (OLED) Light Sources for General Lighting":

GB/T 39075 has released the following parts:

---Part 1: General requirements and tests;

---Part 2-1: Special requirements for semi-integrated OLED modules;

---Part 2-2: Special requirements for integrated OLED modules;

---Part 2-3: Special requirements for flexible OLED light sheets and panels:

This document replaces GB/T 39075-2020 "Safety Requirements for Organic Light-Emitting Diode (OLED) Panels for General Lighting" and is consistent with Compared with GB/T 39075-2020, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed the scope of application (see Chapter 1, Chapter 1 of the 2020 edition);

---Added 5 terms and definitions including "semi-integrated OLED module" and "integrated OLED module" (see Chapter 3);

---Deleted the original term "stabilization time" (see 3.8 of the 2020 version);

---Changed the requirements for some signs in Table 1 (see 5.1, 5:1 of the 2020 version);

---Appendix C is changed from an informative appendix to a normative appendix (see Appendix C, Appendix C of the 2020 version):

This document is equivalent to IEC 62868-1:2020 "Safety of organic light-emitting diodes (OLED) light sources for general lighting - Part 1:

General requirements and tests":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

Introduction

As a new generation of light source, OLED light source, the current product structure has gradually shifted from low-end products to mid-to-high-end products, and OLED the market demand for our products continues to rise: GB/T 39075 "Safety of Organic Light-Emitting Diode (OLED) Light Sources for General Lighting" passed the specification the safety requirements of OLED light sources have positive significance for promoting the development of new industrialization and promoting the sustainable development of the national economy:

With the expansion of the market application scope of OLED products, in order to better standardize the safe use and testing of OLED products, now according to the classification of OLED products further refines safety requirements: GB/T 39075 aims to standardize organic light-emitting diodes (OLED) for general lighting the light source safety requirements are planned to be composed of four parts:

---Part 1: General requirements and tests: The purpose is to establish the application of organic light-emitting diode (OLED) panels for general lighting:

Basic test requirements and test conditions for safety requirements:

---Part 2-1: Special requirements for semi-integrated OLED modules: The purpose is to establish that semi-integrated OLED modules are different from other Test requirements and test conditions for other OLED products:

---Part 2-2: Special requirements for integrated OLED modules: The purpose is to establish that integrated OLED modules differ from other Test requirements and test conditions for OLED products:

---Part 2-3: Special requirements for flexible OLED light sheets and panels: The purpose is to establish the difference between flexible OLED light sheets and panels Test requirements and test conditions for other OLED products:

Organic light-emitting diode (OLED) light sources for general lighting Safety Part 1: General requirements and tests

1 Scope

This document specifies the general safety requirements for organic light-emitting diode (OLED) light sources for general lighting in indoor and similar situations:

This document applies to equipment powered by a DC power supply not exceeding 1000V or an AC power supply with a frequency not exceeding 1000V and a frequency of 50Hz or 60Hz:

OLED products:

This document applies to any OLED light source not covered by GB/T 39075 Part 2:

Note 1: At this stage, only test methods for DC-powered OLED products are provided, and corresponding provisions for AC-powered OLED products are under consideration:

Note 2: The structure of the OLED light sheet and panel is shown in Figure A:1~Figure A:4 in Appendix A:

Note 3: See Appendix D for OLED lighting systems including OLED panels or modules:

Note 4: This document is applicable to OLED light sources (light sheets, panels, modules) composed of OLED lamps or OLED lamps, and is intended to make the OLED light sources as components of lighting equipment and in combination with other components comply with IEC 60598 (all parts):

Note 5: If there are OLED light sources that are not applicable to GB/T 39075 Part 2, the requirements and tests in GB/T 39075 Part 2 can be used as the minimum Use close to applicable guidelines:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 7000.1-2023 Luminaires Part 1: General requirements and tests (IEC 60598-1:2020, MOD) Note: There is no technical difference between the quoted content of GB/T 7000.1-2023 and the quoted content of IEC 60598-1:2017:

IEC 60068-2-6 Environmental testing Part 2-6: Test method Test Fc: Vibration (sinusoidal) [Environmental Note: GB/T 2423.10-2019 Environmental testing Part 2: Test method Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007, IDT) IEC 62504 General lighting LED products and related equipment terms and definitions [General lighting-Lightemittingdi-Note: GB/T 24826-2016 Terms and definitions for LED products and related equipment for general lighting (IEC 62504:2014, IDT) Note: GB/Z 34447-2017 Sharp edge test device and test procedure for lighting equipment sharp edge test (IEC TR62854:2014, IDT) ISO 4046-4:2016 Glossary of paper, board, pulp and related terms Part 4: Grades and conversion products of paper and board products) IEC TS62972 General lighting organic light-emitting diode (OLED) products and related equipment terms and definitions [General tions]