

INTERNATIONAL STANDARD

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Organic light emitting diode (OLED) panels for general lighting – Performance requirements

Panneaux à diodes électroluminescentes organiques (OLED) destinés à l'éclairage général – Exigences de performance



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ORGANIC LIGHT EMITTING DIODE (OLED) PANELS FOR GENERAL LIGHTING – PERFORMANCE REQUIREMENTS

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IEC 62922 edition 1.1 contains the first edition (2016-11) [documents 34A/1942/FDIS and 34A/1956/RVD] and its amendment 1 (2021-08) [documents 34A/2241/FDIS and 34A/2252/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 62922 has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

- requirements: roman type,
- *test specifications: italic type,*
- notes: smaller roman type.

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ORGANIC LIGHT EMITTING DIODE (OLED) PANELS FOR GENERAL LIGHTING – PERFORMANCE REQUIREMENTS

1 Scope

This document specifies the performance requirements of OLED tiles and panels for use on DC supplies up to 120 V or AC supplies up to 50 V at 50 Hz or 60 Hz for indoor and similar general lighting purposes.

NOTE In this current edition, life (life time and maintained values) is not addressed. This is intended to be covered in a future amendment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-845, *International Electrotechnical Vocabulary. Lighting* (available at <http://www.electropedia.org>)

IEC 62868, *Organic light emitting diode (OLED) panels for general lighting – Safety requirements*

~~IEC TR 62732, *Three digit code for designation of colour rendering and correlated colour temperature*~~

IEC TS 62972, *General lighting – Organic light emitting diode (OLED) products and related equipment – Terms and definitions*

ISO 11664-5/CIE S 014-5/E:2009/2016, *Colorimetry – Part 5: CIE 1976 L*u*v* Colour space and u', v' uniform chromaticity scale diagram*

CIE 013.3:1995, *Method of measuring and specifying colour rendering properties of light sources*

CIE TN 001:2014, *Chromaticity difference specification for light source*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-845, IEC TS 62972 and IEC 62868 as well as the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

test voltage

input voltage at which tests are carried out