

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**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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## CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 General statement and test conditions.....	7
4.1 General statement .....	7
4.2 General test conditions .....	7
4.3 Stabilization .....	8
4.3.1 General requirements for stabilization.....	8
4.3.2 Current-driven stabilization.....	8
4.3.3 Voltage-driven stabilization.....	8
5 Marking .....	8
5.1 Contents and location .....	8
5.2 Information on reliability of electrical connection .....	9
6 Input power .....	9
7 Initial photometric characteristics.....	9
7.1 General.....	9
7.2 Luminous flux .....	10
7.3 Luminous efficacy .....	10
7.4 Chromaticity coordinates.....	10
7.5 Correlated colour temperature (CCT) .....	10
7.6 Colour rendering index (CRI) .....	10
7.7 Luminance uniformity.....	11
7.7.1 Average luminance ( $L_{av}$ ).....	11
7.7.2 Luminance uniformity ( $U_L$ ).....	11
7.8 Luminous intensity distribution.....	11
7.9 Surface chromaticity uniformity .....	12
7.10 Angular chromaticity uniformity .....	12
8 Maintained photometric characteristics .....	12
9 Reliability .....	13
9.1 High temperature – high humidity operation .....	13
9.2 High temperature – high humidity storage .....	13
9.3 Reliability of connection .....	13
10 Information for controlgear design .....	14
Annex A (informative) Use of regional standards.....	15
Annex B (informative) Measuring method of angular chromaticity uniformity .....	16
Annex C (normative) Measuring method for luminous flux.....	18
C.1 General.....	18
C.2 Integrating sphere measurements .....	18
C.2.1 Integrating sphere methods and installation position.....	18
C.2.2 Size of the integrating sphere .....	18
C.3 Goniophotometric measurements.....	19
Annex D (informative) Tests of robustness of terminations and connectors .....	20
D.1 General.....	20
D.2 Wire terminations and pin type connectors.....	20

D.2.1	General .....	20
D.2.2	Tensile test.....	20
D.2.3	Bending test .....	20
D.2.4	Torsion test .....	20
D.3	Flexible flat terminations .....	20
D.3.1	General .....	20
D.3.2	Peel test A.....	21
D.3.3	Peel test B.....	21
D.4	Soldering .....	21
Annex E (informative)	Information for controlgear design .....	22
E.1	General.....	22
E.2	Operation.....	22
E.3	Characteristics of the driver output current.....	22
E.4	Characteristics of the driver output voltage .....	23
E.5	Dimming .....	23
E.6	Short-circuit protection.....	23
Annex F (informative)	Information for luminaire design .....	24
Bibliography.....		25
Figure C.1	– 4 $\pi$ geometry (left), 2 $\pi$ geometry sphere (centre) and 2 $\pi$ geometry hemisphere (right).....	18
Figure D.1	– Schematic diagram of peel test A.....	21
Figure E.1	– Voltage and luminance behaviour at constant current operation.....	22
Table 1	– Contents and location of marking .....	9
Table B.1	– Chromaticity coordinates for all viewing angles between 0° and 80° in 5° steps.....	16
Table B.2	– Colour difference between all chromaticity coordinate pairs .....	17

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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The text of this standard is based on the following documents:

FDIS	Report on voting
34A/1942/FDIS	34A/1956/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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 none 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:2002, *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/>
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### 3.1

#### test voltage

input voltage at which tests are carried out