SLOVENSKI STANDARD
SIST EN 62922:2017/A1:2021

01-december-2021

Plošče z organskimi svetlečimi diodami (OLED) za splošno razsvetljavo - Zahtevane lastnosti - Dopolnilo A1 (IEC 62922:2016/AMD1:2021)

Organic light emitting diode (OLED) panels for general lighting - Performance requirements (IEC 62922:2016/AMD1:2021)

Organische Licht emittierende Dioden (OLED)-Panels für die Allgemeinbeleuchtung - Anforderungen an die Arbeitsweise (IEC 62922:2016/AMD1:2021)

Panneaux à diodes électroluminescentes organiques (OLED) destinés à l'éclairage général - Exigences de performance (IEC 62922:2016/AMD1:2021)

Ta slovenski standard je istoveten z: **EN 62922:2017/A1:2021**

ICS:

29.140.99	Drugi standardi v zvezi z žarnicami	Other standards related to lamps

SIST EN 62922:2017/A1:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Organic light emitting diode (OLED) panels for general lighting - Performance requirements (IEC 62922:2016/AMD1:2021)

Panneaux à diodes électroluminescentes organiques (OLED) destinés à l'éclairage général - Exigences de performance (IEC 62922:2016/AMD1:2021)

Organische Licht emittierende Dioden (OLED)-Panels für die Allgemeinbeleuchtung - Anforderungen an die Arbeitsweise (IEC 62922:2016/AMD1:2021)

This amendment A1 modifies the European Standard EN 62922:2017; it was approved by CENELEC on 2021-09-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 62922:2017/A1:2021 E

European foreword

The text of document 34A/2241/FDIS, future IEC 62922/AMD1, prepared by SC 34A “Electric light sources” of IEC/TC 34 “Lighting” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62922:2017/A1:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022–06–30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024–09–30

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Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62922:2016/AMD1:2021 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

The Annex ZA of EN 62922:2017 applies with the following changes:

Publication	Year	Title	EN/HD	Year
Update the following reference:				
ISO 11664-5/CIE S 014–5/E	2016	Colorimetry - Part 5: CIE 1976 L*u*v* colour-space and u', v' uniform chromaticity scale diagram		-
Delete the following reference:				
IEC/TR 62732	-	Three-digit code for designation of colour-rendering and correlated colour temperature		-

IEC 62922

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

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

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 62922:2016 has been prepared by subcommittee 34A: Electric light sources, of IEC technical committee 34: Lighting.

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

FDIS	Report on voting
34A/2241/FDIS	34A/2252/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

2 Normative references

Delete the reference to IEC TR 62732.

Replace "ISO 11664-5/CIE S 014-5/E:2009" *with* "ISO 11664-5/CIE S 014-5/E:2016".

3 Terms and definitions

Add, at the end of 3.5, the following new entries 3.6, 3.7 and 3.8:

3.6
median useful life
L_x
<of OLED tiles and panels> length of operating time during which a total of 50 % of a population of operating OLED tiles or panels of the same type have flux degraded to the luminous flux maintenance factor x

Note 1 to entry: The median useful life includes operating OLED tiles and panels only.

Note 2 to entry: By convention, the expression "life of OLED tiles" or "life of OLED panels" without any modifiers is understood to be the median useful life.

3.7
maintained operating voltage

<of OLED tiles and panels> operating voltage measured at an operational time, the OLED tiles or panels operating under specified conditions

Note 1 to entry: Specified conditions are described either in this document or the manufacturer's document.

3.8
maintained chromaticity coordinate
<of OLED tiles and panels> chromaticity coordinate measured at an operational time, the OLED tiles or panels operating under specified conditions

Note 1 to entry: Specified conditions are described either in this document, or the manufacturer's document.

Note 2 to entry: Details are given in 8.2.2.

5 Marking

5.1 Contents and location

Table 1

Delete the row "Photometric code" *and add four new rows before the NOTE, as follows:*

Table 1 – Contents and location of marking

Parameters	Location
Rated luminous flux (lm)	Mandatory on packaging or product information
Average luminance (cd/m^2)	Mandatory on packaging or product information
~~Photometric code (according to IEC TR 62732)~~	~~Mandatory on packaging or product information~~
Rated chromaticity coordinates (in u'v' coordinates) and chromaticity coordinate range (expressed by Δu'v', a u'v' circle or a u'v' quadrangle)	Mandatory on packaging or product information
Correlated colour temperature (K)	Mandatory on packaging or product information
Rated colour rendering index	Mandatory on packaging or product information
Operating temperature range (°C)	Mandatory on packaging or product information
Rated luminous efficacy (lm/W)	Mandatory on packaging or product information
Luminance uniformity (%)	Mandatory on packaging or product information
Luminous intensity distribution[a]	Mandatory on packaging or product information
Surface chromaticity uniformity and location of measurement spots (if applicable)	Mandatory on packaging or product information
Angular chromaticity uniformity	Mandatory on packaging or product information
Rated location and dimensions of the light output surface	Mandatory on packaging or product information
Rated median useful life (h)	Mandatory on packaging or product information
Luminous flux maintenance (%)	Mandatory on packaging or product information
Maintained operating voltage (V)	Mandatory on packaging or product information
Maintained chromaticity coordinate	Mandatory on packaging or product information
NOTE The operating temperature range specifies maximum and minimum temperatures of the OLED panel at which the OLED panel will function as intended. The operating temperatures are measured according to Annex F.	
[a] This requirement is fulfilled if the data file is made available electronically.	

7.4 Chromaticity coordinates

Replace the existing text with the following new text:

The chromaticity coordinates shall be determined from the spectral distribution obtained from the measurement specified in 7.2, in accordance with ISO 11664-5/CIE S 014-5/E:2016.

7.7 Luminance uniformity

Replace the existing title of 7.7 with the following new title:

7.7 Luminance

7.7.1 Average luminance (L_{av})

Replace the existing subclauses 7.7.1.1 to 7.7.1.3 with the following new text:

The initial average luminance is measured in accordance with Annex G.