ICS 29.140.99 SLOVENSKÁ TECHNICKÁ NORMA August 2017

STN	**Panely s organickými diódami emitujúcimi svetlo (OLED) na všeobecné osvetlenie Požiadavky na prevádzkové vlastnosti**	**STN EN 62922** 36 0588

Organic light emitting diode (OLED) panels for general lighting - Performance Requirements

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/17

Obsahuje: EN 62922:2017, IEC 62922:2016

125154

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62922

February 2017

ICS 29.140.99

English Version

Organic light emitting diode (OLED) panels for general lighting - Performance Requirements (IEC 62922:2016)

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

Organische-Licht-emittierende-Dioden- (OLED-) Panels - Anforderungen an die Arbeitsweise (IEC 62922:2016)

This European Standard was approved by CENELEC on 2016-12-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 62922:2017 E

EN 62922:2017

European foreword

The text of document 34A/1942/FDIS, future edition 1 of IEC 62922, prepared by SC 34A "Lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62922:2017.

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)	2017-09-23
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-12-23

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

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

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-2-20:2008	NOTE	Harmonized as EN 60068-2-20:2008 (not modified).
IEC 60068-2-21:2006	NOTE	Harmonized as EN 60068-2-21:2006 (not modified).
IEC 60749-14:2003	NOTE	Harmonized as EN 60749-14:2003 (not modified).
IEC 61747-10-1:2013	NOTE	Harmonized as EN 61747-10-1:2013 (not modified).

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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

Publication	Year	Title	EN/HD	Year
IEC 60050-845	-	International Electrotechnical Vocabulary (IEV) - Chapter 845: Lighting	-	-
IEC 62868	-	Organic light emitting diode (OLED) panels for general lighting - Safety requirements	EN 62868	-
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	Colorimetry - Part 5: CIE 1976 L*u*v* Colour space and u', v' uniform chromaticity scale diagram	EN ISO 11664-5	2011 [1]
CIE 013.3	1995	Method of measuring and specifying colour rendering properties of light source	-	-
CIE TN 001	2014	Chromaticity difference specification for light source	-	-

[1] Superseded by EN ISO 11664-5:2016 (SO/CIE 11664-5:2016).

IEC 62922

Edition 1.0 2016-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

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

IEC 62922:2016-11(en-fr)

IEC 62922

Edition 1.0 2016-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.140.99

ISBN 978-2-8322-3754-0

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

_____

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

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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

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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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, *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*