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Standards

Irish Standard  
I.S. EN 62868:2015

# Organic light emitting diode (OLED) panels for general lighting - Safety requirements

## I.S. EN 62868:2015

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 62868:2015 is the adopted Irish version of the European Document EN 62868:2015, Organic light emitting diode (OLED) panels for general lighting - Safety requirements

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EUROPEAN STANDARD

**EN 62868**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 29.140.99

English Version

**Organic light emitting diode (OLED) panels for general lighting -  
Safety requirements  
(IEC 62868:2014)**

Panneaux à diodes électroluminescentes organiques  
(OLED) destinés à l'éclairage général - Exigences de  
sécurité  
(IEC 62868:2014)

Organische Licht emittierende Dioden (OLED)-Panels für  
die Allgemeinbeleuchtung - Sicherheitsanforderungen  
(IEC 62868:2014)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

EN 62868:2015

## **European foreword**

The text of document 34A/1786/FDIS, future edition 1 of IEC 62868, prepared by IEC/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 62868:2015.

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) 2016-05-06
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-10-30

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

## **Endorsement notice**

The text of the International Standard IEC 62868:2014 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, 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International electrotechnical vocabulary -- - Chapter 00: General index		-
IEC 60068-2-6	2007	Environmental testing -- Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60598-1	-	Luminaires -- Part 1: General requirements and tests	EN 60598-1	-
IEC/TR 62854	2014	Sharp edge testing apparatus and test procedure for lighting equipment – Tests for sharpness of edge		
ISO 4046-4	2002	Paper, board, pulps and related terms - Vocabulary -- Part 4: Paper and board grades and converted products	-	-

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Edition 1.0 2014-09

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**



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

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



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**IEC 62868**

Edition 1.0 2014-09

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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

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

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

## FOREWORD

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International Standard IEC 62868 has been prepared by subcommittee SC 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/1786FDIS	34A/1806/RVD

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

This publication 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 – SAFETY REQUIREMENTS**

### **1 Scope**

This International Standard specifies the safety requirements of OLED tiles and panels for use on d.c. supplies up to 120 V or a.c. supplies up to 50 V at 50 Hz or 60 Hz for indoor and similar general lighting purpose.

NOTE 1 At this moment only test methods for d.c. operated OLED panels are provided. Provisions for a.c. operated OLED panels are under consideration.

NOTE 2 The construction of OLED tiles and panels is illustrated in Annex A.

NOTE 3 The OLED lighting system consisting of OLED panels or modules is illustrated in Annex D.

### **2 Normative references**

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.

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

IEC 60050 (all parts): *International electrotechnical vocabulary* (available at <<http://www.electropedia.org>>)

IEC 60068-2-6:2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

IEC TR 62854:2014, *Sharp edge testing apparatus and test procedure for lighting equipment – Tests for sharpness of edge*

ISO 4046-4:2002, *Paper, board, pulps and related terms – Vocabulary – Part 4: Paper and board grades and converted products*

### **3 Terms and definitions**

For the purpose of this document, the terms and definitions given in IEC 60050-845 and the following apply.

#### **3.1**

#### **organic light emitting diode**

#### **OLED**

light emitting semiconductor consisting of an electroluminescent zone made of organic compounds, situated between two electrodes

Note 1 to entry: This note applies to the French language only.

#### **3.2**

#### **OLED tile**

smallest functional OLED light source which cannot be separated into smaller OLED lighting elements containing at least one contact ledge with at least one positive and one negative pole for connection to the electrical power supply

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