

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Organic light emitting diode (OLED) light sources for general lighting – Safety –  
Part 2-3: Particular requirements – Flexible OLED tiles and panels**

**Sources lumineuses à diodes électroluminescentes organiques (OLED)  
destinées à l'éclairage général – Sécurité –  
Partie 2-3: Exigences particulières – Dalles et panneaux OLED flexibles**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ORGANIC LIGHT EMITTING DIODE (OLED) LIGHT SOURCES FOR GENERAL LIGHTING – SAFETY –

### Part 2-3: Particular requirements – Flexible OLED tiles and panels

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The text of this International Standard is based on the following documents:

Draft	Report on voting
34A/2254/FDIS	34A/2261/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 International Standard 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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 62868 series, published under the general title *Organic light emitting diode (OLED) light sources for general lighting – Safety*, can be found on the IEC website.

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# ORGANIC LIGHT EMITTING DIODE (OLED) LIGHT SOURCES FOR GENERAL LIGHTING – SAFETY –

## Part 2-3: Particular requirements – Flexible OLED tiles and panels

### 1 Scope

This part of IEC 62868 specifies the safety requirements for flexible organic light emitting diode tiles and panels for use on supplies up to 120 V ripple free DC for indoor and similar general lighting purposes and designed for being bent during the manufacturing process of curved luminaires.

### 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 61747-40-1:2019, *Liquid crystal display devices – Part 40-1: Mechanical testing of display cover glass for mobile devices – Guidelines*

IEC 62504, *General lighting – Light emitting diode (LED) products and related equipment – Terms and definitions*

IEC 62715-6-3:2020, *Flexible display devices – Part 6-3: Mechanical test methods – Impact and hardness tests*

IEC 62868-1:2020, *Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 1: General requirements and tests*

IEC TS 62972:2016, *General lighting – Organic light emitting diode (OLED) products and related equipment – Terms and definitions*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62504, IEC 62868-1 and IEC TS 62972 and 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

##### **flexible OLED**

OLED that is mechanically bendable in one or more of the steps of substrate handling, manufacturing, storage, use, operation, shipping, and relocation