

INTERNATIONAL STANDARD

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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**

**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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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 General	7
4.1 General requirements	7
4.2 General test requirements.....	7
5 Marking	8
5.1 Contents and location	8
5.2 Durability and legibility of marking.....	8
6 Construction	8
6.1 General.....	8
6.2 Mechanical strength.....	8
6.2.1 Requirements	8
6.2.2 Vibration test	8
6.2.3 Strength and impact test.....	9
6.3 Internal short circuit	10
6.4 Wireways	10
6.5 Resistance to dust, solid objects and moisture.....	10
7 Mechanical hazard	10
8 Fault conditions	10
8.1 General.....	10
8.2 Overpower condition	11
8.3 Input stability test.....	11
8.4 Overbending	11
8.5 Excess bending cycles.....	11
9 Insulation resistance and electric strength	11
9.1 Insulation resistance	11
9.2 Electric strength.....	11
10 Thermal stress.....	11
11 Creepage distances and clearances	11
12 Resistance to heat and fire.....	12
12.1 Resistance to heat	12
12.2 Resistance to fire.....	12
13 Photobiological safety.....	12
14 Terminals	12
15 Information for luminaire design.....	12
Annex A (informative) Construction of flexible OLED tiles and panels	13
Annex B (normative) Classification of flexible OLED tiles and panels	14
Bibliography.....	15
Figure A.1 – Schematic diagram of glass flexible OLED tile for lighting.....	13
Figure A.2 – Schematic diagram of film flexible OLED panel for lighting.....	13

Table 1 – Additional marking..... 8

Table 2 – Mechanical attributes and measurement methods 9

Table B.1 – Flexible OLED classification..... 14

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ORGANIC LIGHT EMITTING DIODE (OLED) LIGHT SOURCES FOR GENERAL LIGHTING – SAFETY –
Part 2-3: Particular requirements – Flexible OLED tiles and panels**FOREWORD**

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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. The main document types developed by IEC are described in greater detail at 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.

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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