

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

Luminaires – **iTeh STANDARD PREVIEW**  
Part 2-1: Particular requirements – Fixed general purpose luminaires  
(standards.iteh.ai)

Luminaires –  
Partie 2-1: Exigences particulières – Luminaires fixes à usage général  
IEC 60598-2-1:2020  
<https://standards.iteh.ai/catalog/standards/sist/75c54dc5-d581-4c19-9d80-f713a5bed4c8/iec-60598-2-1-2020>





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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LUMINAIRES –

**Part 2-1: Particular requirements –  
Fixed general purpose luminaires**

## FOREWORD

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International Standard IEC 60598-2-1 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 1979 and Amendment 1:1987. This edition constitutes a technical revision.

This edition includes the following technical changes with respect to the previous edition (there are no major technical changes, see Annex A):

- a) the scope has been modified to be in line with Part 1 to include all electric light sources,
- b) references to Part 1 have been updated.

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

FDIS	Report on voting
34D/1511/FDIS	34D/1521/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.

A list of all parts in the IEC 60598 series, published under the general title *Luminaires* can be found on the IEC website.

This Part 2-1 is to be used in conjunction with the latest edition of IEC 60598-1 and its amendment(s). It was established on the basis of the eighth edition (2014) and Amendment 1 (2017) of that standard.

NOTE 1 When "Part 1" is mentioned in this document, it refers to IEC 60598-1.

NOTE 2 In this document, the following print type is used:

- compliance statements: *in italic 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- withdrawn,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.

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## LUMINAIRES –

### Part 2-1: Particular requirements – Fixed general purpose luminaires

#### 1.1 Scope

This part of IEC 60598 specifies requirements for fixed general purpose luminaires for use with electric light sources on supply voltages not exceeding 1 000 V.

#### 1.2 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 60598-1, *Luminaires – Part 1: General requirements and tests*

#### 1.3 Terms and definitions

For the purposes of this document, the terms and definitions given in Part 1 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>

#### 1.4 General test requirements

The provisions of Section 0 of Part 1 apply. The tests described in each appropriate section of Part 1 shall be carried out in the order listed in this document.

#### 1.5 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section 2 of Part 1.

#### 1.6 Marking

The provisions of Section 3 of Part 1 apply.

#### 1.7 Construction

The provisions of Section 4 of Part 1 apply.

#### 1.8 Creepage distances and clearances

The provisions of Section 11 of Part 1 apply.

#### 1.9 Provision for earthing

The provisions of Section 7 of Part 1 apply.

### **1.10 Terminals**

The provisions of Sections 14 and 15 of Part 1 apply.

### **1.11 External and internal wiring**

The provisions of Section 5 of Part 1 apply.

### **1.12 Protection against electric shock**

The provisions of Section 8 of Part 1 apply.

### **1.13 Endurance tests and thermal tests**

The provisions of Section 12 of Part 1 apply.

Luminaires with an IP classification greater than IP20 shall be subjected to the relevant tests of 12.4, 12.5, 12.6 and 12.7 of Section 12 of Part 1 after the test(s) of 9.2 but before the test(s) of 9.3 of Section 9 of Part 1 as specified in Clause 1.14 of this document.

### **1.14 Resistance to dust, solid objects and moisture**

The provisions of Section 9 of Part 1 apply.

For luminaires with an IP classification greater than IP20, the order of the tests specified in Section 9 of Part 1 shall be as specified in Clause 1.13 of this document.

### **1.15 Insulation resistance and electric strength, touch current and protective conductor current**

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The provisions of Section 10 of Part 1 apply.

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### **1.16 Resistance to heat, fire and tracking**

The provisions of Section 13 of Part 1 apply.



**Annex A**  
(informative)

**Schedule of amended subclauses containing more serious/critical requirements which require products to be retested**

No requirements of this document are considered more onerous compared with the previous edition.

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