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Luminaires -
Part 2-24: Particular requirements - Luminaires with limited surface temperatures

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CONTENTS

FOREWORD 2
1 Scope 4
2 Normative references 4
3 Terms and definitions 4
4 General requirements 5
5 Classification of luminaires 6
6 Marking 6
7 Construction 7
8 External and internal wiring 7
9 Provision for earthing 7
10 Protection against electric shock 7
11 Resistance to dust, solid objects and moisture 8
12 Insulation resistance and electric strength, touch current and protective conductor current 8
13 Creepage distances and clearances 8
14 Endurance test and thermal test 8
14.1 General 8
14.2 Selection of lamps and controlgear 8
14.3 Endurance test 8
14.4 Thermal test (normal operation) 8
14.5 Thermal test (abnormal operation) 8
14.6 Thermal test (failed windings in controlgear) 9
14.7 Thermal test in regard to fault conditions in controlgear or electronic devices incorporated in thermoplastic luminaires 9
15 Resistance to heat, fire and tracking 9
16 Screw terminals 9
17 Screwless terminals and electrical connections 9
Annex AAA (informative) Schedule of amended subclauses containing more serious or critical requirements which call for products to be retested 10
Bibliography 11

Figure 1 – Symbol for luminaires with limited surface temperatures 6

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Luminaires -
Part 2-24: Particular requirements -
Luminaires with limited surface temperatures

FOREWORD

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IEC 60598-2-24 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition, published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) the clause numbers and structure have been aligned with those of IEC 60598-1;
b) improved terms and definitions;
c) more detailed classification of luminaires;
d) indication of luminaire mounting positions and use locations;
e) thermal protection of built-in controlgear and other built-in devices required.

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

Draft	Report on voting
34D/1819/FDIS	34D/1828/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

This document 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 tenth edition (2024) of that standard.

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

Where this document states "*addition*", "*modification*" or "*replacement*", the relevant text of Part 1 is to be adapted accordingly.

Subclauses, additional to those in Part 1 are numbered starting from 101; supplementary annexes are entitled AAA, AAB, etc.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

The content of the corrigendum 1 (2026-10) has been included in this copy.

1 Scope

This part of IEC 60598 specifies requirements for luminaires for which limited surface temperatures are provided to counteract risks from combustible dusts (conductive or non-conductive) or ignition of materials that can be deposited on luminaires. The luminaires are for use with electric light sources on supply voltages not exceeding 1 000 V.

NOTE The risk of thermal effects (combustion or degradation caused by the luminaire) to the mounting surface is covered in Part 1 for all types of luminaires.

This document specifically excludes requirements for luminaires for use in explosive gas atmospheres and explosive dust atmospheres.

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.

This clause of Part 1 applies with the following additions:

IEC 60598-1:2024, *Luminaires - Part 1: General requirements and tests*

IEC 61347-1, *Controlgear for electric light sources - Safety - Part 1: General requirements*

Bibliography

IEC 60050-426:2020, *International Electrotechnical Vocabulary (IEV) - Part 426: Explosive atmospheres*, available at https://www.electropedia.org

IEC 60364-4-42:2024, *Low-voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects*

IEC 60364-7-705, *Low-voltage electrical installations - Part 7-705: Requirements for special installations or locations - Agricultural and horticultural premises*

ISO 4225, *Air quality - General aspects - Vocabulary*

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