



SLOVENSKI STANDARD
oSIST prEN IEC 60598-2-24:2024
01-december-2024

Svetilke - 2-24. del: Posebne zahteve - Svetilke z omejeno površinsko temperaturo

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

Leuchten - Teil 2-24: Besondere Anforderungen - Leuchten mit begrenzter Oberflächentemperatur

Luminaires - Partie 2-24: Exigences particulières - Luminaires avec surfaces à températures limitées

Ta slovenski standard je istoveten z: prEN IEC 60598-2-24:2024

<https://standards.iteh.ai/catalog/standards/sist/c42baf28-620c-4da2-bbc4-5e4896cd4e97/osist-pren-iec-60598-2-24-2024>

ICS:

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34D/1745/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

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IEC SC 34D : LUMINAIRES	
SECRETARIAT: United Kingdom	SECRETARY: Ms Shanti Conn
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Safety	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING
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TITLE:

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

PROPOSED STABILITY DATE: 2029

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

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

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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 control gear and other built-in devices required

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

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Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

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61 Full information on the voting for its approval can be found in the report on voting indicated in the
62 above table.

63 The language used for the development of this International Standard, Technical is English.

64 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in
65 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, and the
66 ISO/IEC Directives, JTC 1 Supplement available at www.iec.ch/members_experts/refdocs. The main
67 document types developed by IEC are described in greater detail at www.iec.ch/publications.

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69 This Part 2-24 is to be used in conjunction with the latest edition of IEC 60598-1 and its
70 amendment(s). It was established on the basis of the tenth edition (20XX) of that standard.

71

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

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

76 Subclauses, notes, figures and tables additional to those in Part 1 are numbered starting from 101;
77 supplementary annexes are entitled AAA, AAB, etc.

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

80

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

83

- reconfirmed,

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- withdrawn,

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- replaced by a revised edition, or

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amended.

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

91 **1 Scope**

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

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

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

100 **2 Normative references**

101 The following documents, in whole or in part, are normatively referenced in this document and
102 are indispensable for its application. For dated references, only the edition cited applies. For
103 undated references, the latest edition of the referenced document (including any amendments)
104 applies.

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

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

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

110 ISO 4225:1994, *Air quality – General aspects – Vocabulary*

111 **3 Terms and definitions**

112 For the purposes of this document, the terms and definitions given in Part 1 apply except as
113 follows:

114 ISO and IEC maintain terminology databases for use in standardization at the following
115 addresses:

- 116 • IEC Electropedia: available at <http://www.electropedia.org/>
- 117 • ISO Online browsing platform: available at <http://www.iso.org/obp>

118 *Addition:*

119 **3.101**

120 **dust**

121 small solid particles in the atmosphere which settle out under their own weight, but which can
122 remain suspended in air for some time (includes dust and grit as defined in ISO 4225)

123 **3.102**

124 **conductive dust**

125 combustible dust with specific electrical resistance $\leq 10^3 \Omega \cdot \text{m}$

126 [SOURCE: IEC 60050-426:2020-03, 426-02-19]