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Luminaires - Part 2-24: Particular requirements -Luminaires with limited surface temperatures (IEC A Drettien Generalist of the State of the St 60598-2-24:2013)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60598-2-24:2013 sisaldab Euroopa standardi EN 60598-2-24:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 60598-2-24:2013 consists of the English text of the European standard EN 60598-2-24:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
·	Date of Availability of the European standard is 02.08.2013.
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EUROPEAN STANDARD

EN 60598-2-24

NORME EUROPÉENNE EUROPÄISCHE NORM

August 2013

ICS 29.140.40

Supersedes EN 60598-2-24:1998

English version

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

(IEC 60598-2-24:2013)

Luminaires -Partie 2-24: Exigences particulières -Luminaires avec surfaces à températures limitées (CEI 60598-2-24:2013) Leuchten – Teil 2-24: Besondere Anforderungen – Leuchten mit begrenzter Oberflächentemperatur (IEC 60598-2-24:2013)

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 34D/1094/FDIS, future edition 2 of IEC 60598-2-24, prepared by SC 34D "Luminaires" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60598-2-24:2013.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-04-24
•	latest date by which the national	(dow)	2016-07-24

This document supersedes EN 60598-2-24:1998.

standards conflicting with the document have to be withdrawn

EN 60598-2-24:2013 includes the following significant technical changes with respect to EN 60598-2-24:1998:

- a) change of required degree of protection from IP6X to IP4X to harmonize with the international wiring rules;
- b) temperature limits introduced for glass surface of any light source exposed to risk of dust.

This standard is to be read in conjunction with EN 60598-1, *Luminaires – Part 1: General requirements and tests*.

NOTE In this standard, the following print types are used:

- requirements: in roman type.
- test specifications: in italic type.
- notes: in small roman type.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60598-2-24:2013 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	<u>Year</u>	Title	<u>EN/HD</u>	<u>Year</u>
IEC 60364-4-42	3	Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects	HD 60364-4-42	-
IEC 60598-1	- (Luminaires - Part 1: General requirements and tests	EN 60598-1	-
ISO 4225	1994	Air quality - General aspects - Vocabulary	-	-
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LUMINAIRES -

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

24.1 Scope

This part of the IEC 60598 series specifies requirements for luminaires intended for use where the necessity of limited temperature on the outer surface exists, due to the risk of thermal effects, combustion or degradation of materials but where the risk of explosion in the atmosphere does not exist. The luminaires are for use with electric light sources on supply voltages not exceeding 1 000 V.

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

24.2 Normative references

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

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

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

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

24.3 General test requirements

The provisions of Section 0 in IEC 60598-1 apply. The tests described in each appropriate section of IEC 60598-1 shall be carried out in the order listed in this standard.

24.4 Terms and definitions

For the purposes of this document, the terms and definitions given in Section 1 of IEC 60598-1 apply, as well as the following apply.

24.4.1

dust

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

24.4.2

explosive gas atmosphere

mixture with air, under atmospheric conditions, of flammable substances in the form of gas or vapour which, after ignition, permits self sustaining flame propagation

[SOURCE: IEC 60050-426:2008, 426-01-07]