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COMMENTED VERSION

Ljusarmatur –

Säkerhet –

Del 2-2: Särskilda fordringar på infällda armaturer och infällda armaturer för sambyggnad med luftbehandlingssystem

Luminaires –

Part 2-2: Particular requirements –

Recessed luminaires and recessed air-handling luminaires

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IEC 60598-2-2

Edition 4.0 2023-01
COMMENTED VERSION

INTERNATIONAL STANDARD



**Luminaires –
Part 2-2: Particular requirements – Recessed luminaires and recessed air-
handling luminaires**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 29.140.50

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CONTENTS

| | |
|---|----|
| FOREWORD | 3 |
| 2.1 Scope | 5 |
| 2.2 Normative references | 5 |
| 2.3 Terms and definitions | 5 |
| 2.4 General test requirements | 6 |
| 2.5 Classification of luminaires | 6 |
| 2.6 Marking..... | 6 |
| 2.7 Construction | 7 |
| 2.8 Creepage distances and clearances..... | 7 |
| 2.9 Provision for earthing | 7 |
| 2.10 Terminals..... | 7 |
| 2.11 External and internal wiring | 7 |
| 2.12 Protection against electric shock..... | 7 |
| 2.13 Endurance tests and thermal tests | 8 |
| 2.14 Resistance to dust and moisture | 9 |
| 2.15 Insulation resistance and electric strength..... | 9 |
| 2.16 Resistance to heat, fire and tracking | 9 |
| | |
| Annex A (informative normative) Measurement of ambient temperature in an installation..... | 10 |
| Annex B (normative) Recessed luminaires thermal test methods | 11 |
| Annex C (informative) Explanation of t_a with respect to air-handling luminaires..... | 14 |
| Annex D (informative) Schedule of amended subclauses containing more serious or critical requirements which require products to be retested..... | 15 |
| Bibliography..... | 16 |
| List of comments | 17 |
| | |
| Figure 1 – Symbol for luminaires not suitable for direct mounting on normally flammable surfaces (suitable only for mounting on non-combustible surfaces) | 6 |
| Figure 2 – Symbol for luminaires not suitable for covering with thermally insulating material | 7 |
| Figure B.1 – Example of test recess where a luminaire suitable for covering with thermal insulating material comprises separate parts..... | 11 |
| Figure B.2 – Example of test recess where a luminaire not suitable for covering with thermal insulating material comprises separate parts | 12 |
| Figure B.3 – Correct test box size (insulating ceilings) for settable and adjustable luminaires | 13 |
| | |
| Table 1 – Operating temperature of cable | 8 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

**Part 2-2: Particular requirements –
Recessed luminaires and recessed air-handling luminaires 1**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This commented version (CMV) of the official standard IEC 60598-2-2:2023 edition 4.0 allows the user to identify the changes made to the previous IEC 60598-2-2:2011 edition 3.0. Furthermore, comments from IEC SC 34D experts are provided to explain the reasons of the most relevant changes, or to clarify any part of the content.

A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text. Experts' comments are identified by a blue-background number. Mouse over a number to display a pop-up note with the comment.

This publication contains the CMV and the official standard. The full list of comments is available at the end of the CMV.

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

This fourth edition cancels and replaces the third edition published in 2011. This edition constitutes a technical revision.

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

- a) The requirements specific to recessed luminaires given in IEC 60598-1 are now incorporated in this Part 2-2.
- b) The requirements for air-handling luminaires given in IEC 60598-2-19 are now incorporated in this Part 2-2.
- c) The references to Part 1 have been updated.

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

| Draft | Report on voting |
|---------------|------------------|
| 34D/1681/FDIS | 34D/1688/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/standardsdev/publications.

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 2-2 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 ninth edition (2020).

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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
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- replaced by a revised edition, or
- amended.

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LUMINAIRES –

Part 2-2: Particular requirements – Recessed luminaires and recessed air-handling luminaires

2.1 Scope

This part of IEC 60598 specifies requirements for recessed luminaires incorporating electric light sources for operation from supply voltages up to 1 000 V. ~~This section does not apply to air-handling or liquid-cooled luminaires.~~ It also specifies requirements for recessed air-handling luminaires for use with a ventilation duct or ventilated space (plenum).

NOTE The expressions "ventilation" and "ventilated" in this document refer to forced ventilation.

2.2 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 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*

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

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Ljusarmatur – Säkerhet – Del 2-2: Särskilda fordringar på infällda armaturer och infällda armaturer för sambyggnad med luftbehandlingssystem

*Luminaires –
Part 2-2: Particular requirements –
Recessed luminaires and recessed air-handling luminaires*

Som svensk standard gäller europastandarden EN IEC 60598-2-2:2024. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 60598-2-2:2024.

Nationellt förord

Europastandarden EN IEC 60598-2-2:2024

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60598-2-2, Fourth edition, 2023 - Luminaires – Part 2-2: Particular requirements – Recessed luminaires and recessed air-handling luminaires**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN IEC 60598-1, utg 9:2021.

Tidigare fastställd svensk standard SS-EN 60598-2-2, utg 3:2012 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2027-02-28.

ICS 29.140.50

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Postadress: Box 1042, 172 21 Sundbyberg
Telefon: 08 - 444 14 00.
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SEK Svensk Elstandard

Box 1042
172 21 Sundbyberg
Tel 08-444 14 00
elstandard.se

English Version

**Luminaires - Part 2-2: Particular requirements - Recessed
luminaires and recessed air-handling luminaires
(IEC 60598-2-2:2023)**

Luminaires - Partie 2-2: Exigences particulières -
Luminaires encastrés et luminaires à circulation d'air
encastrés
(IEC 60598-2-2:2023)

Leuchten - Teil 2-2: Besondere Anforderungen -
Einbauleuchten und luftführende Einbauleuchten
(IEC 60598-2-2:2023)

This European Standard was approved by CENELEC on 2024-02-28. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 34D/1681/FDIS, future edition 4 of IEC 60598-2-2, prepared by SC 34D "Luminaires" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60598-2-2:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-11-28 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-02-28 document have to be withdrawn

This document supersedes EN 60598-2-2:2012 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 60598-2-2:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60598-2-19 NOTE Approved as EN 60598-2-19

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|----------------|-------------|
| IEC 60227 | series | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V | - | - |
| IEC 60245 | series | Rubber insulated cables - Rated voltages up to and including 450/750 V | - | - |
| IEC 60598-1 | - | Luminaires - Part 1: General requirements and tests | EN IEC 60598-1 | - |

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Luminaire –
Part 2-2: Particular requirements – Recessed luminaire and recessed air-
handling luminaire**

**Luminaire –
Partie 2-2: Exigences particulières – Luminaire encastré et luminaire à
circulation d'air encastré**

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CONTENTS

| | |
|---|----|
| FOREWORD..... | 3 |
| 2.1 Scope..... | 5 |
| 2.2 Normative references | 5 |
| 2.3 Terms and definitions | 5 |
| 2.4 General test requirements | 6 |
| 2.5 Classification of luminaires | 6 |
| 2.6 Marking | 6 |
| 2.7 Construction..... | 7 |
| 2.8 Creepage distances and clearances | 7 |
| 2.9 Provision for earthing | 7 |
| 2.10 Terminals | 7 |
| 2.11 External and internal wiring | 7 |
| 2.12 Protection against electric shock | 7 |
| 2.13 Endurance tests and thermal tests..... | 8 |
| 2.14 Resistance to dust and moisture | 8 |
| 2.15 Insulation resistance and electric strength | 9 |
| 2.16 Resistance to heat, fire and tracking..... | 9 |
| Annex A (normative) Measurement of ambient temperature in an installation | 10 |
| Annex B (normative) Recessed luminaires thermal test methods | 11 |
| Annex C (informative) Explanation of t_a with respect to air-handling luminaires | 14 |
| Annex D (informative) Schedule of amended subclauses containing more serious or critical requirements which require products to be retested | 15 |
| Bibliography..... | 16 |
| | |
| Figure 1 – Symbol for luminaires not suitable for direct mounting on normally flammable surfaces (suitable only for mounting on non-combustible surfaces) | 6 |
| Figure 2 – Symbol for luminaires not suitable for covering with thermally insulating material | 7 |
| Figure B.1 – Example of test recess where a luminaire suitable for covering with thermal insulating material comprises separate parts | 11 |
| Figure B.2 – Example of test recess where a luminaire not suitable for covering with thermal insulating material comprises separate parts | 12 |
| Figure B.3 – Correct test box size (insulating ceilings) for settable and adjustable luminaires | 13 |
| | |
| Table 1 – Operating temperature of cable | 8 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

**Part 2-2: Particular requirements –
Recessed luminaires and recessed air-handling luminaires**

FOREWORD

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

- a) The requirements specific to recessed luminaires given in IEC 60598-1 are now incorporated in this Part 2-2.
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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 60598 series, published under the general title *Luminaires* can be found on the IEC website.

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- reconfirmed,
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- replaced by a revised edition, or
- amended.

LUMINAIRES –

Part 2-2: Particular requirements – Recessed luminaires and recessed air-handling luminaires

2.1 Scope

This part of IEC 60598 specifies requirements for recessed luminaires incorporating electric light sources for operation from supply voltages up to 1 000 V. It also specifies requirements for recessed air-handling luminaires for use with a ventilation duct or ventilated space (plenum).

NOTE The expressions "ventilation" and "ventilated" in this document refer to forced ventilation.

2.2 Normative references

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