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INTERNATIONAL STANDARD

colour inside

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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LUMINAIRES –

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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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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 luminaries 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.

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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*

IEC 60598-2-2

Edition 4.0 2023-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

Luminaires –
Partie 2-2: Exigences particulières – Luminaires encastrés et luminaires à circulation d'air encastrés

IEC 60598-2-2:2023-01(en-fr)

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

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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. 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.

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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LUMINAIRES –

Partie 2-2: Exigences particulières – Luminaires encastrés et luminaires à circulation d'air encastrés

AVANT-PROPOS

1) La Commission Électrotechnique Internationale (IEC) est une organisation mondiale de normalisation composée de l'ensemble des comités électrotechniques nationaux (Comités nationaux de l'IEC). L'IEC a pour objet de favoriser la coopération internationale pour toutes les questions de normalisation dans les domaines de l'électricité et de l'électronique. À cet effet, l'IEC – entre autres activités – publie des Normes internationales, des Spécifications techniques, des Rapports techniques, des Spécifications accessibles au public (PAS) et des Guides (ci-après dénommés "Publication(s) de l'IEC"). Leur élaboration est confiée à des comités d'études, aux travaux desquels tout Comité national intéressé par le sujet traité peut participer. Les organisations internationales, gouvernementales et non gouvernementales, en liaison avec l'IEC, participent également aux travaux. L'IEC collabore étroitement avec l'Organisation Internationale de Normalisation (ISO), selon des conditions fixées par accord entre les deux organisations.
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L'IEC 60598-2-2 a été établie par le sous-comité 34D: Luminaires, du comité d'études 34 de l'IEC: Éclairage. Il s'agit d'une Norme internationale.

Cette quatrième édition annule et remplace la troisième édition parue en 2011. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente (il n'y a aucune modification technique essentielle, voir l'Annexe D):

a) les exigences spécifiques aux luminaires encastrés données dans l'IEC 60598-1 sont désormais intégrées dans la présente Partie 2-2;
b) les exigences relatives aux luminaires à circulation d'air données dans l'IEC 60598-2-19 sont désormais intégrées dans la présente Partie 2-2;

c) les références à la Partie 1 ont été mises à jour.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
34D/1681/FDIS	34D/1688/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Le présent document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/standardsdev/publications.

Une liste de toutes les parties de la série IEC 60598, publiées sous le titre général *Luminaires*, se trouve sur le site web de l'IEC.

La présente Partie 2-2 doit être utilisée conjointement avec la dernière édition de l'IEC 60598-1 et ses amendements. Elle a été établie sur la base de la neuvième édition (2020).

NOTE 1 L'expression "la Partie 1" utilisée dans le présent document fait référence à l'IEC 60598-1.

NOTE 2 Dans le présent document, le caractère d'imprimerie suivant est utilisé:

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LUMINAIRES –

Partie 2-2: Exigences particulières – Luminaires encastrés et luminaires à circulation d'air encastrés

2.1 Domaine d'application

La présente partie de l'IEC 60598 spécifie des exigences pour les luminaires encastrés qui comporte des sources lumineuses électriques, pour un fonctionnement à des tensions d'alimentation jusqu'à 1 000 V. Elle spécifie également des exigences pour les luminaires à circulation d'air encastrés pour un fonctionnement avec un conduit de ventilation ou un espace ventilé (plenum).

NOTE Dans le présent document, les termes "ventilation" et "ventilé" se rapportent à la ventilation forcée.

2.2 Références normatives

Les documents suivants cités dans le texte constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60227 (toutes les parties), *Conducteurs et câbles isolés au polychlorure de vinyle, de tension nominale au plus égale à 450/750 V*

IEC 60245 (toutes les parties), *Conducteurs et câbles isolés au caoutchouc – Tension assignée au plus égale à 450/750 V*

IEC 60598-1, *Luminaires – Partie 1: Exigences générales et essais*