

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



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.140.50

ISBN 978-2-8322-6331-0

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

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

FOREWORD

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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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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

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*

2.3 Terms and definitions

For the purposes of this document, the terms and definitions given in Part 1 and the following apply.

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

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

2.3.1

air-handling luminaire

luminaire specially designed for use in association with an air conditioning system

Note 1 to entry: The air can pass either through the lamp chamber or through separate passages.

Note 2 to entry: For an explanation of the significance of t_a as applied to air-handling luminaires, see Annex C.

2.3.2

static operation

operation of a luminaire when not handling either forced supply or extract air but permitting natural convection