

Australian/New Zealand Standard™

Luminaires

**Part 2.19: Particular requirements—
Air-handling luminaires (safety
requirements)
(IEC 60598.2.19:1981, MOD)**



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Energy Efficiency and Conservation Authority of New Zealand
Illuminating Engineering Society of Australia and New Zealand
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PREFACE

This Standard was prepared by Standards Australia/Standards New Zealand Committee, EL-041, Lamps and Related Equipment.

The objective of this Standard is to provide manufacturers, users and regulators with electrical safety requirements for air-handling luminaires.

This Standard is reproduced from IEC 60598-2-19:1981, *Luminaires, Part 2: Particular requirements—Section 19: Air-handling luminaires (safety requirements)*, and has been varied as indicated to suit Australian/New Zealand conditions. This Standard also includes the IEC Amendment 1 and Amendment 2 which are identified by numbered marginal bars to the right of the affected text.

While this document is reproduced from IEC 60598-2-19, there are Australian and New Zealand variations in AS/NZS 60598.1.2001 to which this Standard refers for the majority of its requirements. Thus an item complying with IEC 60598-2-19 may not comply with AS/NZS 60598.2.19:2001.

Variations to IEC 60598-2-19:1981 are indicated at the appropriate places throughout this Standard. Strikethrough—(example) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where Australian/New Zealand text, tables or figures are added, each is set in its proper place and identified by shading (example).

This Standard is a section of Part 2 of a series dealing with luminaires. It is part of a series which, when complete, will consist of the following:

AS/NZS 60598	Luminaires
Part 1:	General requirements and tests
Part 2.1:	Particular requirements—Fixed general purpose luminaires
Part 2.2:	Particular requirements—Recessed luminaires
Part 2.3:	Particular requirements—Luminaires for road and street lighting
Part 2.4:	Particular requirements—Portable general purpose luminaires
Part 2.5:	Particular requirements—Floodlights
Part 2.6:	Particular requirements—Luminaires with built-in transformers or convertors for filament lamps
Part 2.8:	Particular requirements—Handlamps
Part 2.10:	Particular requirements—Portable child-appealing luminaires
Part 2.18:	Particular requirements—Luminaires for swimming pools and similar applications
Part 2.19:	Particular requirements—Airhandling luminaires (safety requirements) (this Standard)
Part 2.20:	Particular requirements—Lighting chains
Part 2.23:	Particular requirements—Extra low voltage lighting systems for filament lamps
Part 2.25:	Particular requirements—Luminaires for use in clinical areas of hospitals and health care buildings.

Each Standard in Part 2 is intended to be used in conjunction with Part 1 in order to provide a complete Standard for that specific type of luminaire. Where a particular Clause of Part 1 is not mentioned in Part 2, that Clause applies as far as is reasonable.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

- (b) In the source text ‘this International Standard’ should read ‘this Standards Australia/Standards New Zealand Standard’.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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Any IEC table, figure or passage of text that is struck-through is not part of this Standard. Any Australian/New Zealand table, figure or passage of text that is added (and identified by shading) is part of this Standard.

19.1 Scope

This section of Part 2 of ~~IEC Publication 60598-1~~: **AS/NZS 60598.1** specifies safety requirements for air-handling luminaires for use with a ventilation duct or ventilated space (plenum), for use with tubular fluorescent lamps on supply voltages not exceeding 1000 V. It is to be read in conjunction with those sections of Part 1 to which reference is made.

Attention is drawn to the fact that this section specifies only the safety aspects of air-handling luminaires; no requirements are specified at present for performance aspects.

Notes:

- 1 The expression "ventilation" and "ventilated" in this section refers to forced ventilation.
- 2 No requirements are specified at present in this section for the use of tungsten filament lamps and discharge lamps other than tubular fluorescent lamps.

19.1.1 Normative references

The following normative documents contains provisions which, through reference in this text, constitute provisions of this section of ~~IEC 60598-2~~ **AS/NZS 60598.2**. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this section of ~~IEC 60598-2~~ **AS/NZS 60598.2** are encouraged to investigate the possibility of applying the most recent editions of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60227,	<i>Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V</i>
IEC 60245,	<i>Rubber insulated cables of rated voltages up to and including 450/750 V</i>
IEC 60598-1,	<i>Luminaires, - Part 1: General requirements and tests</i>
AS/NZS 60598.1,	<i>Luminaires—Part 1: General requirements and tests</i>

19.2 General test requirements

The provisions of Section Zero of ~~IEC Publication 60598-1~~: **AS/NZS 60598.1** Luminaires, Part 1: General requirements and tests, apply. The test described in each appropriate section of Part 1 shall be carried out in the order listed in this section of Part 2.