

Australian/New Zealand Standard™

## Luminaires

**Part 2.17: Particular requirements—  
Luminaires for stage lighting, television  
and film studios (outdoor and indoor)  
(IEC 60598-2-17:2017 (ED.2.0) MOD)**



AS/NZS 60598.2.17:2019

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-041, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 6 February 2019 and by the New Zealand Standards Approval Board on 30 January 2019.

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The following are represented on Committee EL-041:

- Australian Industry Group
- Consumers Federation of Australia
- Department of the Environment and Energy (Australian Government)
- Electrical Compliance Testing Association of Australia
- Electrical Contractors Association of New Zealand
- Electrical Regulatory Authorities Council
- Energy Efficiency & Conservation Authority of New Zealand
- IES: The Lighting Society
- Joint Accreditation System of Australia and New Zealand
- Joint Accreditation System of Australia and New Zealand, New Zealand
- Lighting Council Australia
- Lighting Council New Zealand
- Master Electricians Australia
- NSW Fair Trading
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This Standard was issued in draft form for comment as DR AS/NZS 60598.2.17:2018.

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### **Part 2.17: Particular requirements— Luminaires for stage lighting, television and film studios (outdoor and indoor) (IEC 60598-2-17:2017 (ED.2.0) MOD)**

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## Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS/NZS 60598.2.17:2006, *Luminaires — Part 2.17: Particular requirements—Luminaires for stage lighting, television, film and photographic studios (outdoor and indoor)* (IEC 60598.2.17, Ed. 1.0 (1984) MOD).

The objective of this Standard is to specify requirements for stage, television, film and photographic studio luminaires (including spot and floodlighting projectors) for use outdoors and indoors, with electric light sources on supply voltages not exceeding 1 000 V.

This edition includes the following significant technical changes with respect to the previous edition:

- (a) Extension of the applicable scope from light source to electric light source, and replacement of “tungsten filament, tubular fluorescent and other discharge lamps” with “electric light source” in Clause 17.1.
- (b) Consideration of the fact that there are many LED luminaires with non-replaceable light source, and light source without a glass bulb, or with low operation temperature: the applicable scope of relevant clauses therefore only applies to replaceable light source luminaires with a glass bulb lamp, or with high surface temperature.

This Standard is an adoption with national modifications, and has been reproduced from, IEC 60598-2-17:2017 (ED. 2.0) *Luminaires — Part 2-17: Particular requirements — Luminaires for stage lighting, television and film studios (outdoor and indoor)*. Appendix ZZ lists the variations to IEC 60598-2-17:2017 (ED. 2.0) for the application of this Standard in Australia and New Zealand.

The essential safety requirements of AS/NZS 3820, *Essential safety requirements for electrical equipment*, which could be applicable to lighting products within the scope of AS/NZS 60598.2.17, are covered by AS/NZS 60598.2.17.

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- (i) In the source text “this section of Part 2 of IEC 60598” should read “this Australian/New Zealand Standard”.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LUMINAIRES –

**Part 2-17: Particular requirements – Luminaires for stage lighting,  
television and film studios (outdoor and indoor)**

## 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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International Standard IEC 60598-2-17 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 1984 and Amendment 2:1990. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) extension of the applicable scope from light source to electric light source and replacement of "tungsten filament, tubular fluorescent and other discharge lamps" with "electric light source" in 17.1.
- b) consideration of the fact that there are many LED luminaires with non-replaceable light source, and light source without a glass bulb, or with low operation temperature: the applicable scope of relevant clauses therefore only applies to replaceable light source luminaires with a glass bulb lamp, or with high surface temperature.

The text of this standard is based on the following documents:

FDIS	Report on voting
34D/1275/FDIS	34D/1284/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This publication is to be read in conjunction with IEC 60598-1: *Luminaires – Part 1: General requirements and tests*. It was established on the basis of the eight edition (2014) of that standard.

A list of all parts in the IEC 60598 series, published under the general title *Luminaires* can be found on the IEC website.

NOTE In this standard, the following print type is used:

– *compliance statements: in italic type*

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

## LUMINAIRES –

### Part 2-17: Particular requirements – Luminaires for stage lighting, television and film studios (outdoor and indoor)

#### 17.1 Scope

This part of IEC 60598-2 specifies requirements for stage, television, film and photographic studio luminaires (including spot and floodlighting projectors) for use outdoors and indoors, with electric light sources on supply voltages not exceeding 1 000 V.

NOTE A hanger (stirrup) is a part of the luminaire. Supporting devices such as tripods, telescopic booms and suspensions are not parts of the luminaire. Where applicable, ballasts are built into or mounted separately from the luminaires.

#### 17.2 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 60598-1, *Luminaires – Part 1: General requirements and tests*

#### 17.3 Terms and definitions

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

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

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

#### 17.4 General test requirements

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

#### 17.5 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section 2 of IEC 60598-1.

#### 17.6 Marking

The provisions of Section 3 of IEC 60598-1 apply, together with the requirements of 17.6.1 to 17.6.7.

**17.6.1** Where the luminaire design imposes restrictions of use, the following information shall be marked on the luminaire: