

# Australian/New Zealand Standard™

## 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)**



## **AS/NZS 60598.2.17:2006**

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 14 December 2005 and on behalf of the Council of Standards New Zealand on 21 December 2005.

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The following are represented on Committee EL-041:

Association of Consulting Engineers Australia  
Australian Electrical and Electronic Manufacturers Association  
Australian Industry Group  
Certification Interests (New Zealand)  
Consumers' Federation of Australia  
Electrical Compliance Testing Association  
Electrical Regulatory Authorities Council  
Energy Efficiency & Conservation Authority of New Zealand  
IES: The Lighting Society  
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## 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)**

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## PREFACE

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

The objective of this Standard is to provide the lighting industry with particular requirements for luminaires for stage lighting, television, film and photographic studios (outdoor and indoor).

This Standard is an adoption with national modifications and has been reproduced from IEC 60598-2-17, Ed. 1.0 (1984), *Luminaires - Part 2: Particular requirements Section Seventeen – Luminaires for stage lighting, television, film and photographic studios (outdoor and indoor)*. It includes Amendment 2:1990 and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 60598-2-17, Ed. 1.0 (1984) 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 text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

This Standard is Part 2.17 of a series dealing with luminaires. Currently this series consists of the following Parts; additional Parts will be added from time to time:

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 2.4:	Particular requirements—Portable general purpose luminaires
Part 2.5	Particular requirements—Floodlights
Part 2.6:	Particular requirements—Luminaires with built-in transformers or converters for filament lamps
Part 2.7:	Particular requirements—Portable luminaires for garden use
Part 2.8:	Particular requirements—Handlamps
Part 2.9:	Particular requirements—Photo and film luminaires (non-professional)
Part 2.10:	Particular requirements—Portable child-appealing luminaires
Part 2.17:	Particular requirements—Luminaires for stage lighting, television, film and photographic studios (outdoor and indoor) (this Standard)
Part 2.18:	Particular requirements—Luminaires for swimming pools and similar applications
Part 2.19	Particular requirements—Air handling luminaires (Safety requirements)
Part 2.20:	Particular requirements—Lighting chains
Part 2.22:	Particular requirements—Luminaires for emergency lighting
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. Where Part 2 states ‘addition’, ‘modification’ or ‘replacement’, the relevant requirements in Part 1 are adapted accordingly. It is to be noted that some parts of the AS/NZS 60598 series differ from parts of IEC and hence equipment that conforms to the IEC standard may not comply with its AS/NZS counterpart.

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 part of IEC 60598' should read 'this part of AS/NZS 60598'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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**Australian/New Zealand Standard****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)**

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**17.1 Scope**

This Section of Part 2 of IEC 60598 specifies requirements for stage, television, film and photographic studio luminaires (including spot and floodlighting projectors) for use, outdoor and indoor, with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V. It is to be read in conjunction with those sections of Part 1 to which reference is made.

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.

NOTE - In the source text 'IEC standard' should read as relevant AS/NZS standard as applicable. It applies to the other parts of 60598 series.

**17.2 General test requirements**

The provisions of Section Zero 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 section of Part 2.

**17.3 Definitions**

For the purposes of this section, the definitions of Section One of IEC 60598-1 apply.

**17.4 Classification of luminaires**

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

**17.5 Marking**

The provisions of Section Three of IEC 60598-1 apply, together with the requirements of Subclauses 17.5.1 to 17.5.7.

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

- a) an indication of the 'top' of the luminaire;
- b) the designed positions or range of angles of use;
- c) mounting arrangements (or reference to a document which specifies the mounting arrangements).

**17.5.2** The following warning shall be clearly marked on the exterior of the luminaire:

'Isolate electrically before re-lamping. CAUTION – Hot Lamp'.

**17.5.3** The rated maximum ambient temperature  $t_a$  shall be clearly marked on the luminaire.

**17.5.4** Minimum distances from flammable materials to all exterior surfaces of the luminaire (to prevent ignition of the flammable material) shall be clearly marked on the luminaire.