

AS/NZS 60598.1:1998
IEC 598-1:1996

Australian/New Zealand Standard[®]

Luminaires

**Part 1: General requirements
and tests**

AS/NZS 60598.1:1998

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/41, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 3 December 1997 and on behalf of the Council of Standards New Zealand on 28 November 1997. It was published on 5 March 1998.

The following interests are represented on Committee EL/41:

Association of Consulting Engineers Australia
Australian Electrical and Electronic Manufacturers Association
Electrical Compliance Testing Association of Australia
Electrical regulatory authorities
Energy Efficiency and Conservation Authority of New Zealand
Illuminating Engineering Society of Australia and New Zealand
Ministry of Commerce, New Zealand

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Part 1: General requirements and tests

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/41, Lamps and Related Equipment, to supersede, in New Zealand, NZS 6705.1:1986.

The objective of this Standard is to specify minimum safety requirements for the classification and marking of luminaires and for their mechanical and electrical construction, together with related tests.

IEC has decided to apply a new numbering system, the 60000 series, to all its existing and future publications, including amendments to existing Standards. As a consequence, IEC has modified the bibliographic references in its databases to accord with the new numbering system. All IEC publications issued since the beginning of 1997 will carry references in terms of the 60000 series numbering. Publications printed earlier than 1997 will continue to carry the old series of numbers. For example, a reference to IEC 60598 series of Standards will be to IEC 598 if the current edition of the Standard was printed prior to 1997.

This Standard is technically equivalent to, and is reproduced from, IEC 598-1:1996, *Luminaires*, Part 1: *General requirements and tests*. This Standard is Part 1 of a series dealing with luminaires. Currently this series consists of the following parts but it should be noted that additional parts will be added to this series as more Standards are developed:

- Part 1: General requirements and tests (this Standard)
- Part 2.1: Particular requirements—Fixed general purpose luminaires
- Part 2.4: Particular requirements—Portable general purpose luminaires
- Part 2.6: Particular requirements—Luminaires with built-in transformers 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 2.20: Particular requirements—Lighting chains

Each Standard in Part 2 is intended to be used in conjunction with Part 1, so as to convert it into the 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 should be adapted accordingly.

A number of variations have been made in this Standard to the requirements of IEC 598-1:1996. These variations, which are necessary for Australian/New Zealand requirements, are listed in Annex ZZ and indicated in the text by a single marginal bar set adjacent to the clause, table, figure or part thereof.

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

- (a) The AS/NZS number is shown only on the cover and title page.
- (b) In the source text, ‘this International Standard’ should read ‘this Australian/New Zealand Standard’ and references to ‘relevant IEC Standard’ should read ‘relevant IEC, Australian or New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

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- (d) References to international Standards should be replaced, as appropriate, by references to the following Australian or Australian/New Zealand Standards:

Reference to International Standard		Australian or Australian/New Zealand Standard	
IEC			
61	Lamp caps and holders together with gauges for the control of interchangeability and safety		
61-2	Part 2: Lampholders	—	
61-3	Part 3: Gauges	—	
AS/NZS			
65	Safety requirements for mains operated electronic and related apparatus for household and similar general use	3250	Approval and test specification—Mains operated electronic and related equipment for household and similar general use
68	Environmental testing	1099	Basic environmental testing procedures for electrotechnology
68-2-63	Part 2-63: Test methods—Test Eg: Impact, spring hammer	1099.2.63	Part 2.63: Tests—Test Eg—Impact, spring hammer
83	Plugs and socket-outlets for domestic and similar general use—Standards	3112	Approval and test specification—Plugs and socket-outlets
112	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	4695	Fire hazard testing of electrotechnical products
		4695.112	Method 112: Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions
AS			
155	Glow-starters for fluorescent lamps	4111	Starters for fluorescent lamps—Performance requirements
227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	3191	Approval and test specification—Electric flexible cords
238	Edison screw lampholders	—	
245	Rubber insulated cables of rated voltages up to and including 450/750 V	3191	Approval and test specification—Electric flexible cords
AS/NZS			
320	Appliance couplers for household and similar general purposes	3109	Approval and test specification—Appliance couplers for household and similar general purposes
		3109.1	Part 1: General requirements
357	Tungsten halogen lamps (non-vehicle)	—	
360	Standard method of measurement of lamp cap temperature rise	—	

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