

Australian/New Zealand Standard™

Luminaires

**Part 2.10: Particular requirements—
Portable luminaires for children
(IEC 60598-2-10, Ed.2.0 (2003) MOD)**



AS/NZS 60598.2.10:2015

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 15 April 2015 and on behalf of the Council of Standards New Zealand on 3 July 2015.

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The following are represented on Committee EL-041:

Australasian Fire and Emergency Service Authorities Council
Australian Industry Group
Consumers Federation of Australia
Department of Industry
Electrical Compliance Testing Association
Electrical Contractors Association of New Zealand
Electrical Regulatory Authorities Council
Energy Efficiency and Conservation Authority of New Zealand
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Australian/New Zealand Standard™

Luminaires

Part 2.10: Particular requirements— Portable luminaires for children (IEC 60598-2-10, Ed.2.0 (2003) 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 60598.2.10:1998, *Luminaires, Part 2.10: Particular requirements—Portable child-appealing luminaires*, six months after publication. Until that time, both editions of the Standard will operate in parallel. It is anticipated that the 1998 edition will then be withdrawn.

The objective of this Standard is to specify particular minimum safety requirements for portable luminaires for children to reduce the risk of electric shock and the fire hazard of such devices.

This Standard is an adoption with national modifications; it has been reproduced from IEC 60598-2-10, Ed. 2.0 (2003), *Luminaires, Part 2-10: Particular requirements—Portable luminaires for children*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations made to IEC 60598-2-10, Ed. 2.0 (2003) form the Australian and New Zealand variations for the purpose of the IECEE CB Scheme for recognition of testing to standards for safety of electrical equipment (the CB Scheme). They are listed in Appendix ZZ.

An Appendix ZA has been added, which lists informative references for Australia and New Zealand.

This Standard is structured as follows:

- (a) Preface (including normative Australian and New Zealand references).
- (b) IEC 60598-2-10, Ed. 2.0 (2003), unedited from the contents page to the final clause of the IEC Standard.
- (c) Appendix ZZ—Australian/New Zealand variations to the IEC Standard.
- (d) Appendix ZA—Informative references for Australia/New Zealand.

This Standard introduces the following in Appendix ZZ:

- (i) Clarification of products within the scope of this Standard and clarified definitions.
- (ii) Revised requirements for Class II and Class III luminaires.
- (iii) Particular requirements for power supplies for Class II and Class III luminaires.
- (iv) Prohibition of small removable parts, sharp edges and hot surfaces.
- (v) Additional requirements to prevent a hazard if an overvoltage is present.
- (vi) Additional requirements for power supplies, which are required to be tested to and comply with the requirements for protection code IP4X.
- (vii) Additional requirements to prevent fire hazards.
- (viii) Additional requirements for luminaires with non-replaceable light sources to prevent photobiological hazards.

This Standard is to be read in conjunction with AS/NZS 60598.1, *Luminaires, Part 1: General requirements and tests (IEC 60598-1, Ed. 7.0 (2008) MOD)*.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to portable luminaires for children are covered by this Standard, taken in conjunction with any other relevant requirements affecting safety.

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

- (A) In the source text 'this part of IEC 60598' should read 'this Australian/New Zealand Standard'.
- (B) A full point substitutes for a comma when referring to a decimal marker.

Unless otherwise indicated in Appendix ZZ, references to International Standards in this Standard should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS/NZS	
60598	Luminaires	60598	Luminaires
60598-2-4	Part 2: Particular requirements— Section 4: Portable general purpose luminaires	60598.2.4	Part 2.4: Particular requirements— Portable general purpose luminaires (IEC 60598-2-4, Ed. 2.0 (1997) MOD)
61347	Lamp controlgear	61347	Lamp controlgear
61347-2-2	Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step- down convertors for filament lamps	61347.2.2	Part 2.2: Particular requirements for d.c. or a.c. supplied electronic step- down convertors for filament lamps (IEC 61347-2-2, Ed. 1.2 (2006) MOD)
61558	Safety of power transformers, power supply units and similar	61558	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V
61558-2-6	Part 2-6: Particular requirements for safety isolating transformers for general use	61558.2.6	Part 2.6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers (IEC 61558-2-6 Ed 2, MOD)
61558-2-7	Part 2-7: Particular requirements for transformers for toys	61558.2.7	Part 2.7: Particular requirements and tests for transformers and power supplies for toys

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is for information and guidance only.

In this Standard, the terms ‘clause’ and ‘section’ give effect to the same meaning and may be used interchangeably.

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AUSTRALIAN/NEW ZEALAND STANDARD

Luminaires

Part 2.10:

Particular requirements—Portable luminaires for children
(IEC 60598-2-10, Ed. 2.0 (2003) MOD)**10.1 General****10.1.1 Scope**

This part of IEC 60598 specifies requirements for portable luminaires for children and for use with tungsten filament lamps or single capped fluorescent lamps on a supply voltage not exceeding 250 V. It is to be read in conjunction with those sections of Part 1 to which reference is made.

This part is not applicable to the following:

- portable luminaires typically placed as an extra ornamental element in temporary decorative configurations due to festivities or celebrations;
- low illuminance background luminaires integral with a plug, i.e. forming part of a plug-in device;
- battery driven luminaires or luminaires not for direct connection to the main supply;
- toys;
- luminaires designed or clearly intended for adult use;
- luminaires with two-dimensional graphic reproductions of persons or animals (real or imaginary) on removable shades.

10.1.2 Normative references

The following referenced documents are indispensable for the application 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 60598-2-4, *Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires*

IEC 61558-2-6, *Safety of power transformers, power supply units and similar – Part 2-6: Particular requirements for safety isolating transformers for general use*

IEC 61558-2-7, *Safety of power transformers, power supply units and similar – Part 2: Particular requirements for transformers for toys*

IEC 61347-2-2:2000, *Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps*

ISO 6941:1984, *Textile fabrics – Burning behaviour – Measurement of flame spread properties of vertically oriented specimens*

ISO 8124-1:2000, *Safety of toys – Part 1: Safety aspects related to mechanical and physical properties* (available in English only)

ISO 8124-2:1994, *Safety of toys – Part 2: Flammability*

ISO 8124-3:1997, *Safety of toys – Part 3: Migration of certain elements*