

Australian/New Zealand Standard™

**Luminaires**

**Part 2.23: Particular requirements—  
Extra low voltage lighting systems for  
filament lamps  
(IEC 60598.2.23:1996 MOD)**



**Standards Australia**



## **AS/NZS 60598.2.23:2002**

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 January 2002 and on behalf of the Council of Standards New Zealand on 19 February 2002. It was published on 4 April 2002.

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Australian Electrical and Electronic Manufacturers Association  
Electrical Compliance Testing Association of Australia  
Energy Efficiency and Conservation Authority of New Zealand  
Illuminating Engineering Society of Australia and New Zealand  
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**RECONFIRMATION**

**OF**

**AS/NZS 60598.2.23:2002**

**Luminaires**

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## NOTES

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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 extra low voltage lighting systems for filament lamps.

This Standard is reproduced from IEC 60598-2-23:1996 and Amendment 1:2000, *Luminaires, Part 2: Particular requirements—Section 23: Extra low voltage lighting systems for filament lamps* and has been varied to take account of Australian/New Zealand conditions.

Amendment 1:2000 to IEC 60598-2-23 is incorporated in this Standard and is identified by a marginal bar on the right hand side of the affected clause.

Australian/New Zealand variations to IEC 60598-2-23:1996 and Amendment 1:2000 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, table or figure is 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.

While this document is reproduced from IEC 60598-2-23, there are variations in AS/NZS 60598.1 to which this Standard refers for the majority of its requirements. Thus an item complying with IEC 60598-2-23 may not comply with AS/NZS 60598.2.23.

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’.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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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.

### **23.1 Scope**

This section of IEC 60598-2 specifies requirements for extra low voltage lighting systems for filament lamps intended for ordinary interior use on supply voltages not exceeding 1 000 V. The luminaires, being connected in parallel, are supplied via freely suspended continuous supporting conductors or profiles. The current in the output circuit of the system is limited to 25 A.

### **23.2 Normative references**

The following normative documents contain provisions which, through reference in this text, constitute provisions of this section of IEC 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 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60083: 1975, Plugs and socket-outlets for domestic and similar general use. Standards

~~IEC 598-1: 1992, Luminaires—Part 1: General requirements and tests~~

AS/NZS 60598.1, Luminaires—Part 1: General requirements and tests

~~IEC 742: 1983, Isolating transformers and safety isolating transformers—Requirements~~

AS/NZS 3108, Approval and test specification—Particular requirements for isolating transformers and safety isolating transformers

~~IEC 920: 1990, Ballasts for tubular fluorescent lamps. General and safety requirements~~

IEC 61347-2-8 Lamp control gear - Part 2-8: Particular requirements for ballasts for fluorescent lamps

IEC 61347-2-11, Lamp control gear - Part 2-11: Particular requirements for miscellaneous electronic circuit used with luminaries