

Australian/New Zealand Standard™

**Luminaires**  
**Part 2.8: Particular requirements—**  
**Handlamps**  
**(IEC 60598-2-8:2001, MOD)**

## **AS/NZS 60598.2.8:2002**

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 30 July 2002 and on behalf of the Council of Standards New Zealand on 23 May 2002. It was published on 27 August 2002.

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The following are represented on Committee EL-041:

Association of Consulting Engineers, Australia  
Australian Chamber of Commerce and Industry  
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  
Ministry of Economic Development, New Zealand  
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# Australian/New Zealand Standard™

## **Luminaires Part 2.8: Particular requirements— Handlamps (IEC 60598-2-8:2001, MOD)**

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Previous edition AS/NZS 3118:1993.  
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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 60598.2.8:1998, *Luminaires—Particular requirements—Handlamps* and AS/NZS 3118:1993, *Approval and test specification—Electric inspection handlamps*. AS/NZS 3118 will co-exist with this Standard until 1 January 2005 on which date AS/NZS 3118 will be withdrawn.

The objective of this Standard is to provide requirements for handlamps and similar portable luminaires for use with tungsten filament and tubular fluorescent lamps up to 250 V.

This Standard is an adoption with national modifications and has been reproduced from, IEC 60598-2-8 (Edition 2.1):2001, *Luminaires, Part 2-8: Particular requirements—Handlamps*, and has been varied as indicated to take account of Australian/New Zealand conditions. IEC 60598-2-8:2001 is a consolidation of the 1996 edition and its Amendment 1:2000 which is identified by a marginal bar beside the affected Clause.

While this document is reproduced from IEC 60598-2-8 there are Australian/New Zealand variations in AS/NZS 60598.1:2001 to which this Standard refers for the majority of its requirements. Thus an item complying with IEC 60598-2-8 may not comply with AS/NZS 60598.2.8.

Australian/New Zealand variations to IEC 60598-2-8:2001 (Edition 2.1) are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand Standard, are deleted. Where Australian/New Zealand tables, figures or passages of text 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. These variations are listed in Annex ZZ of this Standard.

This Standard is a section of Part 2 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 convertors for filament lamps

Part 2.8:         Particular requirements—Handlamps (this Standard)

Part 2.10:        Particular requirements—Portable child-appealing luminaires

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 2.23:        Particular requirements—Extra low voltage lighting system 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.

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) A full point should be substituted for a comma when referring to a decimal marker.

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.

**8.1 Scope**

This section of part 2 of ~~IEC 60598~~ **AS/NZS 60598** specifies requirements for handlamps and similar portable luminaires which are held in the hand when used, for use with tungsten filament and tubular fluorescent lamps on supply voltages not exceeding 250 V. It is to be read in conjunction with those sections of part 1 to which reference is made.

Handlamps which can be fixed to a support by means such as a wing screw, clip or magnet, and luminaires such as those used for inspection of the interior of barrels, are within the scope of this section.

**NOTE** – This Standard excludes electrical portable outlet devices covered in AS/NZS 3105.

**8.2 General test requirements**

The provisions of section 0 of ~~IEC 60598-1~~ **AS/NZS 60598.1** apply, together with the requirements of 8.2.1. The tests described in each appropriate section of part 1 shall be carried out in the order listed in this section of part 2.

**8.2.1** The requirements of the second paragraph of 0.4.2 of section 0 of ~~IEC 60598-1~~ **AS/NZS 60598.1** do not apply.

In general, four samples are necessary for the tests, three of which are subjected to the tests of 8.6.6, the remaining sample being subjected to the other tests. For rubber handlamps, an additional sample is necessary for the test of 8.12.1.

Where a range of similar handlamps is involved, the specified tests are made on a representative complete set from the range. This set shall include handlamps, together with any attachments, which represents the most unfavourable combination for testing purposes.

**8.3 Definitions**

For the purposes of this section, the definitions of section 1 of ~~IEC 60598-1~~ **AS/NZS 60598.1** apply, together with the following definitions:

- 1) *Handlamp*  
A portable luminaire with a handle and a flexible cable or cord.
- 2) *Rewirable handlamp*  
A handlamp so constructed that the flexible cable or cord can be replaced.
- 3) *Non-rewirable handlamp*  
A handlamp so constructed that the flexible cable or cord cannot be separated from the handlamp without making it permanently useless.