

Australian/New Zealand Standard™

**Double-capped fluorescent lamps—
Performance specifications**

**Part 2: Minimum Energy Performance
Standard (MEPS)**



AS/NZS 4782.2:2004

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 22 March 2004 and on behalf of the Council of Standards New Zealand on 2 April 2004.

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The following are represented on Committee EL-041:

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
Electrical Regulatory authorities council (Australia)
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Additional Interests:

Australian Greenhouse Office
Ministry of Economic Development, New Zealand
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This Standard was issued in draft form for comment as DR 05479.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 4782.2:2004

**Double-capped fluorescent lamps—Performance specifications
Part 2: Minimum Energy Performance Standard (MEPS)**

RECONFIRMATION NOTICE

Technical Committee EL-041 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 22 July 2015.

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NOTES

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PREFACE

This Standard was prepared by the members of the Joint Standards Australia/Standards New Zealand Technical Committee EL-041-08, Lighting—Energy Performance.

This Standard incorporates Amendment No. 1 (May 2006) and Amendment No. 2 (July 2006). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

A1 | The objective of this part of the Standard AS/NZS 4782.2 is threefold:

- (a) To specify Minimum Energy Performance requirements for certain double-capped fluorescent lamps that are sold in Australia and New Zealand. The MEPS levels stated in this Standard cover general purpose tubular fluorescent lamps of certain length and wattage, operating in single-phase, 50 Hz supply.
- (b) To specify a labelling scheme for household lamps offered in Australia and New Zealand. The labelling scheme is presently voluntary and is based on the European ‘A-G’ label established in 1998 by Commission directive 98/11/EC. The requirements for labelling are covered in Appendix C of this Standard.

A1 | (c) To specify maximum permissible quantity of mercury present in fluorescent lamps.

This Standard when complete will consist of the following parts:

AS/NZS

4782 Double-capped fluorescent lamps—Performance specifications

4782.1 Part 1: General

4782.2 Part 2: Minimum Energy Performance Standard (MEPS) (this Standard)

A1 | 4782.3 Part 3: Procedure for quantitative analysis of mercury present in fluorescent lamps

NOTE: AS/NZS 4782.3 is an interim Standard that will be reviewed 2 years from publication.

This Standard was prepared in response to the publication of a plan for the regulation of lamps by the National Appliance and Equipment Energy Efficiency Committee (NAEEEC) in 2002. The plan called for the introduction of Minimum Energy Performance regulations for linear fluorescent lamps at a level which is broadly consistent with the Canadian, USA and NZ MEPS, although there are some variations due to the differences in products used in individual countries.

A1 | This Standard is published with the approval of the combined state and territory regulatory authorities and is structured to be suitable for reference in legislation calling up Minimum Energy Performance Standards and also for reference in energy labelling regulatory legislation. It refers to AS/NZS 4782.1 and AS/NZS 4782.3 for test procedures. The requirements of mercury content is intended to eventually harmonize with the EU directive 2002/95/EC, on ‘Restrictions of the use of Hazardous Substances (ROHS)’ in electrical and electronic equipment.

Amendment 1 will come into effect on the date of publication.

A2 | Amendment 2 will come into force no earlier than 1 May 2008.

The Australian government encourages the use of the labelling scheme proposed in this Standard and may consider a mandatory approach, if there is no substantial increase in the use of this labelling scheme.

The regulations arising from this Standard are intended to eliminate halophosphate lamps from the Australian market, thereby ensuring that savings are maintained.

In New Zealand, the requirements specified in NZHB 4782.2, published in December 2001 are broadly equivalent to this Standard. This Standard is structured to allow common requirements in Australia and New Zealand.

The terms 'normative' and 'informative' are 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.

Statements expressed in mandatory terms in notes to figures, are deemed to be requirements of this Standard. 'Shall' indicates a requirement is mandatory, while 'should' indicates a recommendation and good practice.

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Australian/New Zealand Standard
Double-capped fluorescent lamps—Performance specifications

Part 2: Minimum Energy Performance Standard (MEPS)

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies Minimum Energy Performance standard (MEPS) requirements for double-capped (FD and FDH) tubular fluorescent lamps with a nominal length of 550 mm to 1500 mm and having nominal lamp wattage of 16 watts or more, that are within the scope of AS/NZS 4782.1.

This Standard further specifies the following:

- (a) Efficacy determination.
- (b) Minimum energy performance standard requirements.
- (c) Colour rendering index requirements.
- (d) Test report format.

This Standard covers lamps for general illumination purposes, for use in luminaires and with lamp ballasts connected to a 230 V 50 Hz single phase or similar mains supply. Lamps that are intended for use only with high frequency (electronic) ballasts are also covered.

1.2 EXCLUSIONS

This Standard does not apply to lamps that are clearly not intended for general illumination, specifically—

- (a) lamps with a dominant colour or with an output that is predominantly outside the visible spectrum;
- (b) lamps for colour matching and that have a colour rendering index greater than 90 and a colour appearance approximating to a point on the black body locus;
- (c) lamps that are specifically for use in an industrial or agricultural process;
- (d) lamps for medical applications; or
- (e) lamps that have been given written exemption by the relevant regulatory authority on the grounds that they are for a specific purpose other than general illumination and are clearly distinguishable from lamps for general illumination.

This Standard does not specify electrical safety requirements.

1.3 APPLICATION

- A1 | This Standard shall be read in conjunction with AS/NZS 4782.1 and AS/NZS 4782.3 respectively.