

AS/NZS 4847.2(Int):2008
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AS/NZS 4847.2(Int):2008

Interim
Australian/New Zealand Standard™

**Self-ballasted lamps for general lighting
services**

**Part 2: Minimum Energy Performance
Standards (MEPS) requirements**



AS/NZS 4847.2(Int):2008

This Joint Australian/New Zealand Interim Standard was prepared by Joint Technical Committee EL-041, Lighting and Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 19 March 2008 and on behalf of the Council of Standards New Zealand on 18 March 2008. This Standard was published on 7 April 2008.

The following are represented on Committee EL-041:

Australian Electrical and Electronic Manufacturers Association
Australian Greenhouse Office, Department of the Environment and Water Resources
Consumers' Federation of Australia
Electrical Compliance Testing Association
Energy Efficiency and Conservation Authority of New Zealand
Institution of Professional Engineers New Zealand
National Appliance and Equipment Energy Efficiency Committee

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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

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PREFACE

This Interim Standard was prepared by the Joint Standards Australia/Standards New Zealand Constructed Subcommittee EL-041-08, Lamps and Lighting Equipment—Energy Performance

The objective of this Interim Standard is to provide the basis for Minimum Energy Performance Standards (MEPS) requirements for compact fluorescent lamps sold in Australia and New Zealand.

In Australia, the requirements within this Interim Standard are intended to be in force from October 2008 for ban on import. Lamps not complying with the requirements of this Interim Standard will be deemed non-compliant and may not be permitted for sale in Australia beyond the effective date.

The Standard consists of the following parts:

AS/NZS

4847 Self-ballasted lamps for general lighting services

4847.1 Part 1: Test methods—Energy performance

4847.2 Part 2: Minimum Energy Performance Standards requirements (this Interim Standard)

This series of Interim Standards is published with the approval of the combined state and territory energy regulatory authorities in Australia and the New Zealand energy efficiency regulatory authority.

Standards Australia/Standards New Zealand invites comments on this Interim Standard from persons and organisations concerned with this subject. The date of expiry is two years after publication. The closing date for comment is six months after publication. After the closing date for comment, the Committee will consider revising the Standard in the light of public comment, with a view to the publication of a Joint Australian/New Zealand Standard before the expiry date. Please forward all comments to the Projects Manager of Committee EL-041-08.

During the life of this document, the committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Joint Australian/New Zealand Standard only and should be regarded as a developmental Standard and liable to future alteration.

The terms ‘normative’ and ‘informative’ are used in this Interim 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 and tables, are deemed to be requirements of this Interim Standard. ‘Shall’ indicates a requirement is mandatory, while ‘should’ indicates a recommendation and good practice.

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FOREWORD

The development of this Interim Standard was based on the need for an improved set of requirements for self-ballasted compact fluorescent lamps (CFLs) that was highlighted in 2005 at the Right Light 6 conference in Shanghai. At this meeting of government and industry representatives, members agreed to work towards the harmonisation of test methods and performance requirements for self-ballasted CFLs over a two year period. It is hoped that this part of the Interim Standard will help in formation of a new international Standard for CFL coding systems and amendments will be incorporated in this Interim Standard based on international review.

Based on these guiding principles, Minimum Energy Performance Standards for compact fluorescent lamps are being introduced in Australia and New Zealand. These are the subject of a report entitled *Phase-Out Of Inefficient Incandescent Lamps and Standards for Compact Fluorescent Lamps*, which was released in December 2007.

Further information is available from the following web sites:

<http://www.energyrating.gov.au/library/details200718-phaseout-incandescent-lamps.html>

<http://www.energyrating.gov.au/library/details200512-mepscfls.html>

<http://www.energyrating.gov.au/library/details2007-cfl-initiative.html>

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Self-ballasted lamps for general lighting services

Part 2: Minimum Energy Performance Standards (MEPS) requirements

1 SCOPE AND GENERAL

1.1 Scope

This Interim Standard specifies Minimum Energy Performance Standards (MEPS) requirements and related attributes for self-ballasted compact fluorescent lamps (CFLs) with integrated means for controlling starting and stable operation that are intended for domestic and similar general lighting purposes.

This Interim Standard applies to self-ballasted lamps of all voltages and wattages irrespective of the type of lamp cap.

This Standard shall be read in conjunction with AS/NZS 4847.1.

1.2 Exclusion

This Interim Standard does not cover safety requirements and other performance requirements. These are covered separately, in AS/NZS 60968 and AS/NZS 60969 respectively.

This Interim Standard does not apply to cold-cathode CFLs or self-ballasted mixed mercury vapour lamps.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Interim Standard:

AS/NZS

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|--------------|--|
| 4782 | Double-capped fluorescent lamps—Performance specifications |
| 4783.3 (Int) | Part 3: Procedure for quantitative analysis of mercury present in fluorescent lamps |
| 4847 | Self-ballasted lamps for general lighting services |
| 4847.1 | Part 1: Test methods—Energy performance |
| 60968 | Self ballasted lamps for general lighting services—Safety requirements (IEC 60968:1988, MOD) |
| 60969 | Self ballasted lamps for general lighting services—Performance requirements |
| 61000 | Electromagnetic compatibility (EMC) |
| 61000.3.2 | Part 3.2: Limits—Limits for harmonic current emissions (equipment input current (16 A per phase) (IEC 61000.3.2, (Ed. 3.0 (2005)MOD) |

IEC

- | | |
|-------|---|
| 60081 | Double-capped fluorescent lamps—Performance specifications |
| 61547 | Equipment for general lighting purposes—EMC immunity requirements |

3 DEFINITIONS

For the purposes of this Interim Standard, the definitions given in AS/NZS 4847.1 apply.