AS/NZS 4847.2:2010
(Incorporating Amendment No. 1)

AS/NZS 4847.2:2010

Australian/New Zealand Standard™

Self ballasted lamps for general lighting services

Part 2: Minimum Energy Performance Standards (MEPS) requirements

This Joint Australian/New Zealand 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 15 March 2010 and on behalf of the Council of Standards New Zealand on 26 March 2010.
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The following are represented on Committee EL-041:

Consumers' Federation of Australia
Department of the Environment, Water, Heritage and the Arts
Electrical Compliance Testing Association
Energy Efficiency and Conservation Authority of New Zealand
Equipment Energy Efficiency Committee
Institution of Professional Engineers New Zealand
Lighting Council New Zealand
Lighting Council of Australia

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

This Standard incorporates Amendment No. 1 (December 2011). 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.

The objective of this 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 and New Zealand, the requirements within this Standard are intended to be in force as determined by regulation.

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 Standard)

This series of 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.

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 and tables are deemed to be requirements of this Standard. ‘Shall’ indicates a requirement is mandatory, while ‘should’ indicates a recommendation.

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FOREWORD

The development of this Standard was based on the need for an improved set of requirements for self ballasted compact fluorescent lamps (CFLs) which 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.

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.

For consumer information refer to http://www.environment.gov.au/settlements/energyefficiency/lighting/faq-alternatives.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 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 Standard applies to self ballasted lamps of all voltages and wattages irrespective of the type of lamp cap.

This Standard covers lamps that are supplied as individual lamps or part of a luminaire.

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

1.2 Exclusion

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

This Standard does not apply to coloured CFLs, CFLs intended primarily for production of UV radiation or CFLs intended as insect repellent lamps, cold-cathode CFLs or self ballasted mixed mercury vapour lamps. Requirements for cold cathode CFLs are under consideration.

CFL reflector lamps are currently excluded but will be included as of October 2011.

2 REFRENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS	
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
62321	Electrotechnical products—Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)