



**Self ballasted lamps for general
lighting services**

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

STANDARDS
Australia



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- Australian Industry Group
- Consumers Federation of Australia
- Department of the Environment and Energy (Australian Government)
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council
- IES: The Lighting Society
- Joint Accreditation System of Australia and New Zealand
- Lighting Council Australia
- Master Electricians Australia
- NSW Fair Trading

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Preface

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS/NZS 4847.2:2010.

After consultation with stakeholders, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

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

The major changes in this edition are as follows:

- (a) Updates references to standards.
- (b) Changes the use of the terms “average” “mean” and “median”.
- (c) Aligns some packaging requirements and the maximum mercury levels with the requirements of the Greenhouse and Energy Minimum Standards (Self-ballasted Compact Fluorescent Lamps for General Lighting Services) Determination.
- (d) Updates information on product registration requirements under regulation.

In Australia, the requirements within this Standard are intended to be in force as determined by regulation.

The series of Standards consists of the following parts:

AS/NZS 4847.1, *Self ballasted lamps for general lighting services, Part 1: Test methods — Energy performance*

AS 4847.2, *Self ballasted lamps for general lighting services, Part 2: Minimum Energy Performance Standard (MEPS)* (this Standard)

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Introduction

Minimum Energy Performance Standard (MEPS) requirements for compact fluorescent lamps were first introduced in Australia in 2009, and in New Zealand in 2012 under the Equipment Energy Efficiency Program. In Australia, these requirements are regulated under the *Greenhouse and Energy Minimum Standards Act 2012* and in New Zealand under the *Energy Efficiency (Energy Using Products) Regulations 2002*.

For further information on the Equipment Energy Efficiency Program, refer to:

<http://www.energyrating.gov.au/products/lighting>

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Australian Standard[®]

Self ballasted lamps for general lighting services

Part 2: Minimum Energy Performance Standard (MEPS)

1 Scope and general

1.1 Scope

This Standard specifies Minimum Energy Performance Standard (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.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents for informative purposes are listed in the Bibliography.

AS/NZS 4847.1, *Selfballasted lamps for general lighting services, Part 1: Test methods — Energy performance*

IEC 60081, *Double-capped fluorescent lamps — Performance specifications*

IEC 61000-3-2, *Electromagnetic compatibility (EMC), Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*

IEC 61547, *Equipment for general lighting purposes — EMC immunity requirements*

IEC 62321-4, *Determination of certain substances in electrotechnical products — Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS*

IEC 62554, *Sample preparation for measurement of mercury level in fluorescent lamps*

3 Terms and definitions

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