AS/NZS 4782.1:2004
Reconfirmed 2016



Australian/New Zealand Standard™

# Double-capped fluorescent lamps—Performance specifications

## Part 1: General
## (IEC 60081:2000 MOD)

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND
Paerewa Aotearoa

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 24 November 2003 and on behalf of the Council of Standards New Zealand on 18 December 2003. It was published on 4 February 2004.

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The following are represented on Committee EL-041:

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Australian Electrical and Electronic Manufacturers Association
Consumer Federation of Australia
Electrical Compliance Testing Association of Australia
Electrical Regulatory authorities council (Australia)
Energy Efficiency and Conservation Authority of New Zealand
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*This Standard was issued in draft form for comment as DR 02397.*

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**RECONFIRMATION**

**OF**
**AS/NZS 4782.1:2004**
**Double-capped fluorescent lamps—Performance specifications**
**Part 1: General (IEC 60081:2000 MOD)**

# 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.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

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

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NOTES

Australian/New Zealand Standard™

# Double-capped fluorescent lamps—Performance specifications

# Part 1: General (IEC 60081:2000 MOD)

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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 1201—1989.

The objective of this Standard is to specify performance requirements for double capped fluorescent lamps for general lighting service.

This Standard is Part 1 of the following series:

AS(NZS) 4782 Double-capped fluorescent lamps—Performance specifications

AS/NZS 4782.1 Part 1: General (this Standard)

AS 4782.2 Part 2: Minimum Energy Performance Specifications (MEPS)

Part 2 is referenced for MEPS requirements by the regulatory authorities.

This Standard is an adoption, with national modifications, of IEC 60081:2000, *Double-capped fluorescent lamps—Performance specifications*, and its Amendment 1:2000 and Amendment 2:2003 and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to IEC 60081:2000 are indicated at the appropriate places throughout this Standard. Strikethrough (~~example~~) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures 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

Where Committee EL-041 is satisfied that an Australian/New Zealand Standard may be used as a substitute for the IEC Standard this has been done in the text, with the change indicated by shading.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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) In the source text ‘this standard’ should read ‘this Australian/New Zealand Standard’.

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

# CONTENTS

*Page*



Figures

*Page*

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

# Australian/New Zealand Standard

# Double-capped fluorescent lamps—Performance specifications Part 1: General (IEC 60081:2000 MOD)

Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian/New Zealand table, figure or text that is added is part of this standard and is identified by shading.

## Section 1: General

### 1.1 Scope

This International Standard specifies the performance requirements for double-capped fluorescent lamps for general lighting service.

The requirements of this standard relate only to type testing. Conditions of compliance, including methods of statistical assessment, are under consideration.

The following lamp types and modes of operation are included:

a) lamps having preheated cathodes, designed for operation on a.c. mains frequencies with the use of a starter, and additionally operating on high frequency;

b) lamps having preheated high-resistance cathodes, designed for operation on a.c. mains frequencies without the use of a starter (starterless), and additionally operating on high frequency;

c) lamps having preheated low-resistance cathodes, designed for operation on a.c. mains frequencies without the use of a starter (starterless), and additionally operating on high frequency;

d) lamps having preheated cathodes, designed for operation on high frequency;

e) lamps having non-preheated cathodes, designed for operation on a.c. mains frequencies;

f) lamps having non-preheated cathodes, designed for operation on high frequency.

For some of the requirements given in this standard, reference is made to “the relevant lamp data sheet”. For some lamps these data sheets are contained in this standard. For other lamps, falling under the scope of this standard, the relevant data are supplied by the lamp manufacturer or responsible vendor.

### 1.2 Statement

It may be expected that lamps which comply with this standard will start and operate satisfactorily at voltages between 92% and 106% of rated supply voltage and at an ambient air temperature of between 10°C and 50°C, when operated with a ballast complying with AS/NZS 60921 or AS/NZS 60929, where relevant with a starter complying with IEC 60155 or IEC 60927, and in a luminaire complying with AS/NZS 60598.

### 1.3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.