

AS/NZS 60598.2.6:1998

IEC 598-2-6:1994

IEC 598-2-6\Amdt 1:1996

Reconfirmed 2013

Australian/New Zealand Standard®

Luminaires

Part 2.6: Particular requirements — Luminaires with built-in transformers or convertors for filament lamps

[IEC title: Luminaires, Part 2: Particular requirements — Section 6:
Luminaires with built-in transformers or convertors for filament lamps]

AS/NZS 60598.2.6:1998

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/41, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 3 December 1997 and on behalf of the Council of Standards New Zealand on 28 November 1997. It was published on 5 March 1998.

The following interests are represented on Committee EL/41:

Association of Consulting Engineers, Australia
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
Ministry of Commerce, New Zealand
Regulatory authorities (electrical)
Telarc, New Zealand

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 97109.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 60598.2.6:1998

Luminaires

**Part 2.6: Particular requirements—Luminaires with built-in transformers or
convertors for filament lamps**

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 2013.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 29 May 2013.

The following are represented on Technical Committee EL-041

Australasian Fire and Emergency Service Authorities Council
Australian Industry Group
Certification Interests, New Zealand
Consumers Federation of Australia
Department of Climate Change and Energy Efficiency
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Energy Efficiency and Conservation Authority of New Zealand
Fair Trading NSW
IES: The Lighting Society
Institution of Professional Engineers New Zealand
International Accreditation New Zealand
Lighting Council Australia
Lighting Council New Zealand
New Zealand Ministry of Business, Innovation and Employment
New Zealand Lighting Manufacturers and Suppliers

NOTES

AS/NZS 60598.2.6:1998

Australian/New Zealand Standard[®]

Luminaires

Part 2.6: Particular requirements — Luminaires with built-in transformers or convertors for filament lamps

First published as AS/NZS 60598.2.6:1998.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7337 1748 9



Documents
Document Sharing Hub

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/41, Lamps and Related Equipment.

The objective of this Standard is to specify minimum safety requirements for luminaires with built-in transformers or convertors for filament lamps with supply voltages and output voltages not exceeding 1000 V.

This Standard is technically equivalent to, and reproduced from, IEC 598-2-6:1994, *Luminaires, Part 2: Particular requirements*, Section 6: *Luminaires with built-in transformers or convertors for filament lamps*, including Amendment 1:1996 as an annex. The clauses changed by the amendment are indicated by a marginal bar with a '1' beside it, set adjacent to the affected text.

IEC has decided to apply a new numbering system, the 60000 series, to all its existing and future publications, including amendments to existing Standards. As a consequence, IEC has modified the bibliographic references in its databases to accord with the new numbering system. All IEC publications issued since the beginning of 1997 will carry references in terms of the 60000 series numbering. Publications printed earlier than 1997 will continue to carry the old series of numbers. For example, a reference to IEC 60598 series of Standards will be to IEC 598 if the current edition of the Standard was printed prior to 1997.

Variations to IEC 598-2-6:1994 for Australian and New Zealand conditions are listed in Annex ZZ and indicated by a single marginal bar set adjacent to the affected clause, table, figure, or part thereof.

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 International Standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.
- (d) References to international Standards should be replaced by references to the following Australian or Australian/New Zealand Standards:

<i>Reference to International Standard</i>		<i>Australian or Australian/New Zealand Standard</i>	
IEC		AS	
417	Graphical symbols for use on equipment	1104	Informative symbols for use on electrical and electronic equipment
		AS/NZS	
598	Luminaires	60598	Luminaires
598-1	Part 1: General requirements and tests	60598.1	Part 1: General requirements and tests
742	Isolating transformers and safety isolating transformers — Requirements	3108	Approval and test specification — Particular requirements for isolating transformers and safety isolating transformers

CONTENTS

	<i>Page</i>
FOREWORD	
Clause	
6.1 Scope	1
6.2 General test requirements	1
6.3 Definitions	2
6.4 Classification of luminaires	2
6.5 Marking	2
6.6 Construction	3
6.7 Creepage distances and clearances	4
6.8 Provision for earthing	4
6.9 Terminals	5
6.10 External and internal wiring	5
6.11 Protection against electric shock	5
6.12 Endurance tests and thermal tests	5
6.13 Resistance to dust and moisture	5
6.14 Insulation resistance and electric strength	6
6.15 Resistance to heat, fire and tracking	6
Annex A — Examples of construction	7
Annex ZZ Variations to IEC 598-2-6:1994 for Australian and New Zealand conditions	8
Amendment 1:1996	9

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.