

AS/NZS 4847.1(Int):2008
Expires 28 March 2010

AS/NZS 4847.1(Int):2008

Interim
Australian/New Zealand Standard™

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

**Part 1: Test methods—Energy
performance**



AS/NZS 4847.1(Int):2008

This Joint Australian/New Zealand Interim 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 18 February 2008 and on behalf of the Council of Standards New Zealand on 29 February 2008. This Standard was published on 28 March 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

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

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.

AS/NZS 4847.1(Int):2008

Interim
Australian/New Zealand Standard™

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

**Part 1: Test methods—Energy
performance**

First published as AS/NZS:4847.1(Int):2008.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 8601 4

PREFACE

This Interim Standard was prepared by the Joint Standards Australia/Standards New Zealand constituted Subcommittee EL-041-08, Lamps and Lighting Equipment—Energy Performance to complement the testing requirements specified in AS/NZS 60969.

The objective of this part of the Interim Standard is to specify test methods for key performance attributes of self-ballasted compact fluorescent lamps (CFLs) that have integrated means for starting, controlling and stable operation. Part 2 of this Interim Standard is intended to cover Minimum Energy Performance Standards requirements with compliance values or limits.

This Interim Standard is structured to be suitable for reference in minimum performance standards legislation.

The Standard consists of the following parts:

AS/NZS

- 4847 Self-ballasted fluorescent lamps for general lighting services
- 4847.1 Part 1: Test methods—Energy performance (this Interim Standard)
- 4847.2 Part 2: Minimum Energy Performance Standards requirements

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 who approve the Standard prior to its publication.

It is hoped that this part of the Standard will help in the formation of a new international Standard for test methods. The feedback will be incorporated into this Interim Standard based on international review.

Standards Australia/Standards New Zealand invite comments on this Interim Standard from persons and organizations concerned with this subject. The closing date for comment is 6 months after publication. The date of expiry is two years 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.

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

CONTENTS

	<i>Page</i>
FOREWORD.....	4
1 SCOPE.....	5
2 REFERENCED DOCUMENTS.....	5
3 DEFINITIONS.....	6
4 LAMP REQUIREMENTS	7
5 SAMPLING	8
APPENDICES	
A TEST FOR STARTING TIME	13
B TEST FOR STARTING TIME	13
C TEST FOR RUN-UP TIME.....	16
D MEASUREMENT OF INITIAL LUMINOUS FLUX, EFFICACY AND LUMEN MAINTENANCE	18
E TEST FOR LOW TEMPERATURE STARTING TIME	22
F TEST FOR SWITCHING WITHSTAND.....	23
G TEST FOR LAMP LIFE.....	24
H TEST FOR LIGHT DISTRIBUTION	25
I TEST REPORT	26
J BIBLIOGRAPHY.....	27

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-