

MALAYSIAN STANDARD

MS 141:2014

Ballasts for tubular fluorescent lamps -Performance (watt loss) requirements (Second revision)

ICS: 29.140.30

Descriptors: ballast, tubular, fluorescent, lamp, performance, watt loss

© Copyright 2014

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia (STANDARDS MALAYSIA)** is the national standards and accreditation body of Malaysia.

The main function of STANDARDS MALAYSIA is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards (MS) are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. To the greatest extent possible, Malaysian Standards are aligned to or are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Malaysian Standards are reviewed periodically. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

For the purposes of Malaysian Standards, the following definitions apply:

Revision: A process where existing Malaysian Standard is reviewed and updated which resulted in the publication of a new edition of the Malaysian Standard.

Confirmed MS: A Malaysian Standard that has been reviewed by the responsible committee and confirmed that its contents are current.

Amendment: A process where a provision(s) of existing Malaysian Standard is altered. The changes are indicated in an amendment page which is incorporated into the existing Malaysian Standard. Amendments can be of technical and/or editorial nature.

Technical corrigendum: A corrected reprint of the current edition which is issued to correct either a technical error or ambiguity in a Malaysian Standard inadvertently introduced either in drafting or in printing and which could lead to incorrect or unsafe application of the publication.

NOTE: Technical corrigenda are not to correct errors which can be assumed to have no consequences in the application of the MS, for example minor printing errors.

STANDARDS MALAYSIA has appointed **SIRIM Berhad** as the agent to develop, distribute and sell Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia

Ministry of Science, Technology and Innovation Level 1 & 2, Block 2300, Century Square Jalan Usahawan 63000 Cyberjaya Selangor Darul Ehsan MALAYSIA

Tel: 60 3 8318 0002 Fax: 60 3 8319 3131 http://www.jsm.gov.my E-mail: central@jsm.gov.my

OR SIRIM Berhad

(Company No. 367474 - V) 1, Persiaran Dato' Menteri Section 2, P. O. Box 7035 40700 Shah Alam Selangor Darul Ehsan MALAYSIA

Tel: 60 3 5544 6000 Fax: 60 3 5510 8095 http://www.sirim.my

E-mail: msonline@sirim.my

Contents

	Pa	age
Commi	ttee representation	ii
Forewo	ord	iii
1	Scope	1
2	Normative references	1
3	General notes on tests	1
4	Marking	2
5	Watt loss	2
Annex	A Watt loss test	3

Committee representation

Atomic Energy Licensing Board

The Industry Standards Committee on Electrical and Electronics Equipments and Accessories (ISC S) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Department of Standards Malaysia Federation of Malaysian Manufacturers Jabatan Kerja Raya Malaysia Malaysian Association of Standards Users Malaysian Cable Manufacturers Association Malaysian Electrical Appliances and Distributors Association Malaysian Green Technology Corporation Ministry of Domestic Trade, Co-operatives and Consumerism Ministry of International Trade and Industry Multimedia University SIRIM Berhad (Secretariat) SIRIM QAS International Sdn Bhd Suruhanjaya Komunikasi dan Multimedia Malaysia Suruhanjaya Tenaga Tenaga Nasional Berhad The Electrical and Electronics Association of Malaysia Universiti Teknologi Malaysia Universiti Tenaga Nasional

The Technical Committee on Lighting, Lamps and Accessories which developed this Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia

Federation of Malaysian Manufacturers

Jabatan Kerja Raya Malaysia

Malaysia Green Building Confederation

SIRIM Berhad (Secretariat)

SIRIM QAS International Sdn Bhd (Product Certification and Inspection Department)

SIRIM QAS International Sdn Bhd (Testing Services Department)

Suruhanjaya Tenaga

The Electrical and Electronics Association of Malaysia

The Institution of Engineers, Malaysia

MS 141:2014

Foreword

This Malaysian Standard was developed by the Technical Committee on Lighting, Lamps and Accessories under the authority of the Industry Standards Committee on Electrical and Electronics Equipments and Accessories.

Major modifications in this revision are as follows:

- a) the title has been changed to "Ballasts for tubular fluorescent lamps Performance (watt loss) requirements";
- b) the scope has been changed as in Clause 1;
- c) subclauses 3.1, 3.2, 4.1 and 4.2 have been deleted;
- d) Clauses 5, 6, 7, 8, 9, 10, 11, 12 and 13 have been deleted; and
- e) Annexes A, B, C and D have been deleted.

This Malaysian Standard cancels and replaces, MS 141: Part 2:1993, Specification for ballasts for tubular fluorescent lamps - Part 2: Performance requirements (First revision).

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.