

INTERNATIONAL STANDARD

IEC 60598-2-8

Edition 2.1
2001-08

Edition 2:1996 consolidated with amendment 1:2000

Luminares –

Part 2-8:

Particular requirements – Handlamps

iTech Standards
(<https://standards.iteh.ai>)
Document Preview

<https://standards.iteh.ai/standards/iec/12405cc5-dd43-4a33-b351-5d02e100d40f/iec-60598-2-8-1996>

<https://standards.iteh.ai/standards/iec/12405cc5-dd43-4a33-b351-5d02e100d40f/iec-60598-2-8-1996>

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*



Reference number
IEC 60598-2-8:1996+A1:2000(E)

Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

Further information on IEC publications

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology. Information relating to this publication, including its validity, is available in the IEC Catalogue of publications (see below) in addition to new editions, amendments and corrigenda. Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is also available from the following:

- **IEC Web Site** (www.iec.ch)

- **Catalogue of IEC publications**

The on-line catalogue on the IEC web site (www.iec.ch/searchpub) enables you to search by a variety of criteria including text searches, technical committees and date of publication. On-line information is also available on recently issued publications, withdrawn and replaced publications, as well as corrigenda.

- **IEC Just Published**

This summary of recently issued publications (www.iec.ch/online_news/justpub) is also available by email. Please contact the Customer Service Centre (see below) for further information.

- **Customer Service Centre**

If you have any questions regarding this publication or need further assistance, please contact the Customer Service Centre:

Email: custserv@iec.ch
Tel: +41 22 919 02 11
Fax: +41 22 919 03 00

INTERNATIONAL STANDARD

IEC 60598-2-8

Edition 2.1
2001-08

Edition 1:1996 consolidated with amendment 1:2000

Luminaires –

Part 2-8:

Particular requirements – Handlamps

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

<https://standards.iteh.ai/catalog/standards/iec/12405cc5-dd43-4a33-b351-5d02e100d40f/iec-60598-2-8-1996>

<https://standards.iteh.ai/catalog/standards/iec/12405cc5-dd43-4a33-b351-5d02e100d40f/iec-60598-2-8-1996>

© IEC 2001 Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission, 3, rue de Varembe, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

CD

For price, see current catalogue

CONTENTS

FOREWORD	5
8.1 Scope	7
8.2 General test requirements	7
8.3 Definitions	7
8.4 Classification of luminaires	9
8.5 Marking	9
8.6 Construction	9
8.7 Creepage distance and clearance	13
8.8 Provision for earthing	13
8.9 Terminals	13
8.10 External and internal wiring	13
8.11 Protection against electric shock	17
8.12 Endurance tests and thermal tests	17
8.13 Resistance to dust and moisture	19
8.14 Insulation resistance and electric strength	19
8.15 Resistance to heat, fire and tracking	19
Figure 1 – Arrangement for impact test for handlamps	21
Figure 2 – Apparatus for flexing test	23
Figure 3 – Crush-test apparatus	25

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

Part 2-8: Particular requirements – Handlamps

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60598-2-8 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 1981 and amendment 2, published in 1990, and constitutes a technical revision.

This consolidated version of IEC 60598-2-8 consists of the second edition (1996) [documents 34D/397/FDIS and 34D/427/RVD], and its amendment 1 (2000) [documents 34D/472/FDIS and 34D/482/RVD].

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 2.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2003-12. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

LUMINAIRES –

Part 2-8: Particular requirements – Handlamps

8.1 Scope

This section of part 2 of IEC 60598 specifies requirements for handlamps and similar portable luminaires which are held in the hand when used, for use with tungsten filament and tubular fluorescent lamps on supply voltages not exceeding 250 V. It is to be read in conjunction with those sections of part 1 to which reference is made.

Handlamps which can be fixed to a support by means such as a wing screw, clip or magnet, and luminaires such as those used for inspection of the interior of barrels, are within the scope of this section.

8.2 General test requirements

The provisions of section 0 of IEC 60598-1 apply, together with the requirements of 8.2.1. The tests described in each appropriate section of part 1 shall be carried out in the order listed in this section of part 2.

8.2.1 The requirements of the second paragraph of 0.4.2 of section 0 of IEC 60598-1 do not apply.

In general, four samples are necessary for the tests, three of which are subjected to the tests of 8.6.6, the remaining sample being subjected to the other tests. For rubber handlamps, an additional sample is necessary for the test of 8.12.1.

Where a range of similar handlamps is involved, the specified tests are made on a representative complete set from the range. This set shall include handlamps, together with any attachments, which represents the most unfavourable combination for testing purposes.

8.3 Definitions

For the purposes of this section, the definitions of section 1 of IEC 60598-1 apply, together with the following definitions:

1) *Handlamp*

A portable luminaire with a handle and a flexible cable or cord.

2) *Rewirable handlamp*

A handlamp so constructed that the flexible cable or cord can be replaced.

3) *Non-rewirable handlamp*

A handlamp so constructed that the flexible cable or cord cannot be separated from the handlamp without making it permanently useless.