

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Luminaires –

Part 2-22: Particular requirements – Luminaires for emergency lighting

Luminaires –

Partie 2-22: Règles particulières – Luminaires pour éclairage de secours

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CONTENTS

FOREWORD.....	3
22.1 Scope.....	5
22.2 Normative references	5
22.3 Terms and definitions	6
22.4 General test requirements	9
22.5 Classification of luminaires	9
22.6 Marking	9
22.7 Construction	11
22.8 Creepage distances and clearances	14
22.9 Provision of earthing.....	14
22.10 Terminals.....	14
22.11 External and internal wiring.....	14
22.12 Protection against electric shock.....	14
22.13 Endurance test and thermal test.....	14
22.14 Resistance to dust and moisture	16
22.15 Insulation resistance and electric strength	16
22.16 Resistance to heat, fire and tracking	16
22.17 Photometric data.....	17
22.18 Changeover operation.....	18
22.19 High temperature operation.....	18
22.20 Battery chargers for self-contained emergency luminaires	19
22.21 Test devices for emergency operation.....	19
Annex A (normative) Batteries for self-contained emergency luminaires	20
Annex B (normative) Luminaire classification	22
Annex C (normative) Luminance measurements	24
Annex D (informative) Rest mode and inhibition mode facilities.....	25
Annex E (normative) Requirements for self-contained portable emergency luminaires	26
E.1 General.....	26
E.2 Scope of requirements provided in Annex E.....	26
E.3 Terms and definitions.....	26
E.4 General test requirements.....	27
E.5 Classification of luminaires	27
E.6 Marking.....	28
E.7 Construction	28
E.8 Changeover operation.....	30
E.9 High temperature operation.....	30
E.10 Thermal test.....	30
Table 1 – Voltage limits for discharge durations up to the end of declared battery life	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –**Part 2-22: Particular requirements –
Luminaires for emergency lighting**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60598-2-22 has been prepared by subcommittee 34D: Luminaires of IEC technical committee 34: Lamp and related equipment.

This fourth edition cancels and replaces the third edition published in 1997, AMD1:2002 and AMD2:2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Clause 22.3, addition of definitions for PELF and Self-contained portable emergency luminaire;
- b) Clause 22.5, updated with the introduction of requirements for non-replaceable lamp and batteries;

- c) Clause 22.6, improved requirements to confirm that the charge indication is correctly connected to the circuit together with other clarifications regarding the controlgear and the remote box with its connecting cable to the emergency luminaire;
- d) Clause 22.12, improved requirements to ensure that the luminaire shall not become unsafe;
- e) Clause 22.16, full revision of the photometric testing to align with ISO and CIE;
- f) Clause 22.17, now only references the requirements which are now covered in IEC 61347-2-7;
- g) Clause 22.19, now only references the requirements which are now covered in IEC 61347-2-7;
- h) Annex A, now includes nickel metal hydride batteries and reference to cell types in IEC 61951-1;
- i) Annex B, minor changes to the classifications;
- j) Annex C, Figure C.1 deleted in favour of a revised text;
- k) Annex E, the additional requirements covering self-contained portable emergency luminaires

The text of this standard is based on the following documents:

FDIS	Report on voting
34D/1119/FDIS	34D/1131/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard is to be read in conjunction with IEC 60598-1 *Luminaires – Part 1: General requirements and tests*.

A list of all parts in the IEC 60598 series, published under the general title *Luminaires*, can be found on the IEC website.

In this standard, the following print types are used:

- requirements: in roman type
- *test specifications: in italic type*
- notes: in small roman type.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

LUMINAIRES –

Part 2-22: Particular requirements – Luminaires for emergency lighting

22.1 Scope

This part of IEC 60598 specifies requirements for emergency luminaires for use with electrical lamps on emergency power supplies not exceeding 1 000 V.

This part does not cover the effects of non-emergency voltage reductions on luminaires incorporating high pressure discharge lamps.

This part gives general requirements for emergency lighting equipment.

This part continues to use the term “lamp” which also includes “light source(s)” where appropriate.

22.2 Normative references

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

IEC 60073, *Basic and safety principles for man-machine interface, marking and identification – Coding principles for indication devices and actuators*

IEC 60155, *Glow-starters for fluorescent lamps*

IEC 60364-5-56, *Electrical installations of buildings – Part 5: Selection and erection of electrical equipment – Chapter 56: Safety services*

IEC 60598-1, *Luminaires – Part 1: General requirements and tests*

IEC 60896-21, *Stationary lead-acid batteries - Part 21: Valve regulated types - Methods of test*

IEC 61056-1, *General purpose lead-acid batteries (valve-regulated types) - Part 1: General requirements, functional characteristics - Methods of test*

IEC 61347-2-2, *Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps*

IEC 61347-2-3, *Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps*

IEC 61347-2-7, *Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)*

IEC 61347-2-12, *Lamp controlgear - Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)*