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

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/15

Obsahuje: EN 60598-2-22:2014, IEC 60598-2-22:2014

Oznámením tejto normy sa od 24.07.2017 ruší  
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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015  
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rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 60598-2-22**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2014

ICS 29.140.40

Supersedes EN 60598-2-22:1998

English Version

**Luminaires - Part 2-22: Particular requirements - Luminaires for  
emergency lighting  
(IEC 60598-2-22:2014)**

Luminaires - Partie 2-22: Exigences particulières -  
Luminaires pour éclairage de secours  
(CEI 60598-2-22:2014)

Leuchten - Teil 2-22: Besondere Anforderungen - Leuchten  
für Notbeleuchtung  
(IEC 60598-2-22:2014)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 34D/1119/FDIS, future edition 4 of IEC 60598-2-22, prepared by SC 34D, "Luminaires", of IEC TC 34, "Lamps and related equipment", was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60598-2-22:2014.

The following dates are fixed:

- latest date by which the document has (dop) 2015-04-24  
to be implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2017-07-24  
standards conflicting with the  
document have to be withdrawn

This document supersedes EN 60598-2-22:1998

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

## Endorsement notice

The text of the International Standard IEC 60598-2-22:2014 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60073	-	Basic and safety principles for man-machine interface, marking and identification - Coding principles for indicators and actuators	EN 60073	-
IEC 60155	-	Glow-starters for fluorescent lamps	EN 60155	-
IEC 60364-5-56 (mod)	-	Low-voltage electrical installations -- Part 5-56: Selection and erection of electrical equipment - Safety services	HD 60364-5-56  +A11 +A1 +AA	-  2013 2011
IEC 60598-1	-	Luminaires -- Part 1: General requirements and tests	EN 60598-1	-
IEC 60896-21	-	Stationary lead-acid batteries -- Part 21: Valve regulated types - Methods of test	EN 60896-21	-
IEC 61056-1	-	General purpose lead-acid batteries (valve-regulated types) -- Part 1: General requirements, functional characteristics - Methods of test	EN 61056-1	-
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	EN 61347-2-2	-
IEC 61347-2-3	-	Lamp controlgear -- Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	EN 61347-2-3	-
IEC 61347-2-7	-	Lamp controlgear -- Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	+AC EN 61347-2-7	2011 -
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)	-	-
IEC 61347-2-13	-	Lamp controlgear -- Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	FprEN 61347-2-13	-
IEC 61951-1	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells -- Part 1: Nickel-cadmium	EN 61951-1	-

IEC 61951-2	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells -- Part 2: Nickel-metal hydride	EN 61951-2	-
IEC 62034	-	Automatic test systems for battery powered emergency escape lighting	EN 62034	-
ISO 3864-1	2011	Graphical symbols_ - Safety colours and safety signs_ - Part_1: Design principles for safety signs and safety markings	-	-
ISO 3864-4	-	Graphical symbols_ - Safety colours and safety signs_ - Part_4: Colorimetric and photometric properties of safety sign materials	-	-
ISO 30061	-	Emergency lighting	-	-
CIE 121 SPI	-	The Photometry and Goniophotometry of Luminaires - Supplement 1: Luminaires for Emergency Lighting	-	-

## Annex ZB (informative)

### A-deviations

**A-deviation:** National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN-CENELEC national member.

This European Standard falls under Directive 2006/95/EC.

NOTE (from CEN-CENELEC IR Part 2:2011, 2.17) Where standards fall under EU Directives, it is the view of the Commission of the European Communities (OJ No C 59; 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A- deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted except under the safeguard procedure provided for in the relevant Directive.

A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.

<u>Clause</u>	<u>Deviation</u>
22.6.18	<p><b>France</b> Ministry of the Interior, Overseas and Local Authorities - Order of 11 December 2009 approving various provisions supplementing and amending Regulation for fire hazard safety for buildings open to the public - Clause EL 10 paragraph 1.</p> <p>In premises open to the public, electrical installations shall have only permanent fittings.</p>
22.11.1	<p><b>France</b> Ministry of the Interior, Overseas and Local Authorities - Order of 11 December 2009 approving various provisions supplementing and amending Regulation for fire hazard safety for buildings open to the public - Clause EL 10 paragraph 1.</p> <p>In premises open to the public, electrical installations shall have only permanent fittings.</p>
22.6.15	<p><b>France</b> Ministry of the Interior - Order of 19 November 2001 approving various provisions supplementing and amending regulation for fire hazard safety for buildings open to the public - Clauses EC 9 and EC 10.</p> <p>The required photometric characteristics of products are only based on the "rated lumen output" as defined in 22.3.14, which shall be measured. Therefore the photometric data distribution of the luminaire may not to be provided or checked.</p>
22.17.1	<p><b>France</b> Ministry of the Interior - Order of 19 November 2001 approving various provisions supplementing and amending regulation for fire hazard safety for buildings open to the public - Clauses EC 9 and EC 10.</p> <p>The required photometric characteristics of products are only based on the "rated lumen output" as defined in 22.3.14, which shall be measured. Therefore the photometric data distribution of the luminaire may not to be provided or checked.</p>



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**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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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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

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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)*

IEC 61347-2-13, *Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules*

IEC 61951-1, *Secondary cells and batteries containing alkaline or other non-acid electrolytes. Portable sealed rechargeable single cells – Part 1: nickel-cadmium*

IEC 61951-2, *Secondary cells and batteries containing alkaline or other non-acid electrolytes. Portable sealed rechargeable single cells – Part 2: Nickel-metal hydride*

IEC 62034, *Automatic test systems for battery powered emergency escape lighting*

ISO 3864-1:2011, *Graphical symbols — Safety colours and safety signs. Part 1: Design principles for safety signs and safety markings*

ISO 3864-4:2011, *Graphical symbols — Safety colours and safety signs. Part 4: Colorimetric and photometric properties of safety sign materials*

ISO 30061:2007, *Emergency lighting*

CIE 121 SP1, *The photometry of emergency luminaires*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**