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Belysningsarmaturer – Del 2-22: Særlige krav – Armaturer til nødbelysning

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

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ICS: 29.140.40

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IDT med: EN 60598-2-22:2014/A1:2020

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EUROPÄISCHE NORM

March 2020

ICS 29.140.40

English Version

Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting (IEC 60598-2-22:2014/A1:2017)

Luminaires - Partie 2-22: Exigences particulières -
Luminaires pour éclairage de secours
(IEC 60598-2-22:2014/A1:2017)

Leuchten - Teil 2-22: Besondere Anforderungen - Leuchten
für Notbeleuchtung
(IEC 60598-2-22:2014/A1:2017)

This amendment A1 modifies the European Standard EN 60598-2-22:2014; it was approved by CENELEC on 2019-12-18. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document 34D/1296/FDIS, future edition 1 of IEC 60598-2-22/A1, prepared by IEC/TC 34D: Luminaires of IEC technical committee 34: Lamp and related equipment was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60598-2-22:2014/A1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-09-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-03-27

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

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 60598-2-22:2014/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60364-5-56 NOTE Harmonized as HD 60364-5-56

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Edition 4.0 2017-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**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

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AMENDMENT 1
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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**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
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FOREWORD

This amendment has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34D/1296/FDIS	34D/1304/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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.

INTRODUCTION to Amendment 1

The light output of LED light sources depends also on the temperature at which it is operated. Typically the temperature is controlled by a heat sink on which it is mounted (e.g. luminaire surface).

For this reason, the calculation of the ratio of the electrical parameter (EOF_x) will be introduced in the LED controlgear standards IEC 61347-2-13 and IEC 61347-2-7, as the direct measurement of EBLF is not practicable.

In particular EOF_1 is defined as the ratio of the current in emergency mode from constant current controlgear divided by the nominal current of LED ($I_{\text{normal mode}}$):

$$EOF_1 = I_{\text{emergency}} / I_{\text{normal mode}}$$

Knowing that the light output of an LED light source is nearly¹ directly proportional with the forward current flowing through it, it is possible to calculate the luminous flux of the luminaire in emergency mode by using the EOF_1 or $I_{\text{emergency}}$ from constant current controlgear.

This document contains a proposal for the modification of IEC 60598-2-22 to use the factor EOF_1 or $I_{\text{emergency}}$ in the luminaire.

¹ Any non-linearity due to the increased efficacy at lower operation temperature leads to an increased tolerance of the light output in the emergency mode but always positive.

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22.2 Normative references

Delete the reference to IEC 60354-5-56

Add the following new reference:

CIE S025, Test Method for LED Lamps, LED Luminaires and LED Modules