



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 60598-1:2023/oprAA:2023**  
**01-maj-2023**

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**Svetilke - 1. del: Splošne zahteve in preskusi - Dopolnilo AA**

Luminaires - Part 1: General requirements and tests

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Ta slovenski standard je istoveten z: **prEN IEC 60598-1/prAA:2023**

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**ICS:**

29.140.40      Svetila      Luminaires

**oSIST prEN IEC 60598-1:2023/oprAA:2023**      **en**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN IEC 60598-1**

**prAA**

March 2023

ICS

English Version

## Luminaires - Part 1: General requirements and tests

To be completed

To be completed

This draft amendment prAA, if approved, will modify the European Standard prEN IEC 60598-1; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2023-06-02.

It has been drawn up by CLC/TC 34.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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, Türkiye and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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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## 10 European foreword

11 This document (prEN IEC 60598-1:2023/prAA:2023) has been prepared by CLC/TC 34, "Lighting".

12 This document is currently submitted to the Enquiry.

13 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

14 This document has been prepared under a Standardization Request given to CENELEC by the European  
 15 Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s)  
 16 / Regulation(s).

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

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## prEN IEC 60598-1:2023/prAA:2023 (E)

19 **1 Modification to Clause 6, “Marking”**20 *In 6.3.12, delete NOTE 4.*21 **2 Modification to Clause 7, “Construction”**22 *In 7.11.6, at the end of the paragraph commencing with “Following completion of these tests...”, add the*  
23 *following text:*24 *“, the test voltage however being reduced to 1 500 V”.*25 **3 Modification to Clause 8, “External and internal wiring”**26 *In 8.2.2, first paragraph, replace “IEC 60227 (all parts) and IEC 60245 (all parts)” with “EN 50525 (all parts)”,*  
27 *and delete the second paragraph.*28 **Replace Table 11 with the following new table:**

29 “

30

**Table 11 — Supply cord**

Luminaire	Rubber	PVC	No insulation
Ordinary class I luminaires	H03RT-H <sup>c</sup>	H03VVH2-F <sup>c</sup> H03VV-F <sup>c</sup>	
Ordinary class II luminaires	H05RR-F <sup>c</sup>	H03VVH2-F <sup>c</sup> H03VV-F <sup>c</sup>	
Luminaires other than ordinary class I and II	H05RN-F <sup>c</sup>	H03VVH2-F <sup>a c</sup> H03VV-F <sup>a c</sup>	
Portable rough service luminaires	H07RN-F <sup>c</sup>		
Class III or with SELV or PELV circuits luminaires AC: $U \leq 25$ V DC: $U \leq 60$ V Interrupted DC voltage for frequencies between 10 Hz and 200 Hz: $\leq 25$ V peak			Uninsulated conductor <sup>b</sup>
Class III or with SELV or PELV circuits luminaires AC: $25$ V < $U \leq 50$ V DC: $60$ V < $U \leq 120$ V	Unsheathed basic insulated conductor		
<sup>a</sup> For indoor use only. <sup>b</sup> In accordance with IEC 60364 (all parts) uninsulated conductors are not allowed in certain special installations and locations e.g. IEC 60364-7-701 “Locations containing a bath or shower”. <sup>c</sup> For supply voltages greater than 250 V, higher voltage grade cables and cords than those given in this table may be necessary.			

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## 32 4 Modification to Clause 14, “Endurance test and thermal test”

33 *In subclause 14.4.3 c) Line 2, after “90 °C” add “(see footnote <sup>c</sup> to Table 22 relating to unsleeved fixed wiring)”.*

34 *In Table 22 footnote <sup>c</sup> add the following:*

35 — *after “European installation standards”: “(HD 60364 (all parts) and HD 384 (all parts))”;*

36 — *after “European cable standards”: “(EN 50525 (all parts))”.*

## 37 5 Addition of Annex ZB, “Special national conditions” and Annex ZC, 38 “A-deviations”

39 *Add the following Annexes ZB and ZC:*

40 “

### 41 Annex ZB 42 (normative)

### 43 Special national conditions

45 **Special national condition:** National characteristic or practice that cannot be changed even over a long period,  
46 e.g. climatic conditions, electrical earthing conditions.

47 NOTE If it affects harmonization, it forms part of the European Standard or Harmonization Document.

48 For the countries in which the relevant special national conditions apply these provisions are normative, for  
49 other countries they are informative.

Clause Special national condition

6.4 **Denmark**

Supply cords of class I luminaires, which are delivered without a plug, shall be provided with a visible tag with the following text:

Vigtigt !  
Lederen med grøn/gul isolation  
må kun tilsluttes en klemme mærket



If essential for the safety of the luminaire, the tag shall in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text:

For tilslutning af the øvrige ledere,  
se medfølgende vejledning.

NOTE “ø” may be replaced by “oe”; “æ” may be replaced by “ae”.

8.2.18 **Denmark**

Socket-outlets intended for providing power to other appliances shall be in compliance with DS60884-2-D1:2017, the Standard Sheets being applied as follows:

Class I . . . . . Standard Sheet DK 1-3a, DK 1-1c and DK 1-1d

For class I luminaires, the earthing contact of the socket-outlet shall be electrically connected to the earthing terminal of the appliance.

## prEN IEC 60598-1:2023/prAA:2023 (E)

Class II luminaires with a degree of protection not higher than IPX0, Standard Sheet DKA 1-4a can be used.

## EXEMPTION:

Socket-outlets supplied from isolation transformers (shaver supply units) and socket-outlets on outdoor luminaires may be in accordance with the requirement of DS60884-2-D1:2017 for fixed socket-outlets.

8.2.1 **Cyprus**

Domestic luminaires intended for connection to a standard United Kingdom 13 A socket must be pre-fitted with an approved plug complying with BS 1363.

Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363.

Plugs must be fitted with the correct fuse.

**Denmark**

Supply cords on single-phase portable luminaires having a rated current not exceeding 13 A

shall be provided with a plug according to the following table:

Class of luminaire	DS60884-2-D1:2017	EN 50075 Standard Sheet
Class I	DK 2-1a, C 2b, C 3b or C 4	
Class II	DKA 2-1a, DKA 2-1b, C 5, C 6	I

For luminaires having an appliance inlet, the plug on the supply cord shall comply with the above requirements.

If multi-phase luminaires and single-phase luminaires having a rated current exceeding 13 A are provided with a supply cord with a plug, the plug shall comply with the following table or EN 60309.

<b>Plug</b>	
<b>Class of luminaire</b>	<b>DS60884-2-D1:2017</b>
<b>Class I</b>	<b>DK 6-1a</b>
<b>Class II</b>	<b>DK 6-1a*</b>
<b>* Earthing contact not connected.</b>	

**Finland**

For luminaires provided with non-detachable flexible cables and cords and a plug, the plug shall comply with the requirements of SFS 5610 and EN 50075, the Standard Sheets to be applied being as follows:

- Class I luminaires SFS 5610, sheet IV or VII or IVA or VIIA
- Class II luminaires SFS 5610, sheet XVI (alt I only) or  
SFS 5610, sheet XVII or EN 50075, sheet I

**United Kingdom**

Domestic luminaires intended for connection to a standard United Kingdom 13 A socket must be pre-fitted with an approved plug complying with BS 1363.

Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363.



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## Annex ZC (informative)

### A-deviations

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

56 This European Standard falls under Directive 2014/35/EU.

57 NOTE (from CEN/CENELEC IR Part 2:2018, 2.16) Where standards fall under EC Directives or Regulations, it is the  
58 view of the Commission of the European Communities (OJ No C 59; 1982-03-09) that the effect of the decision of the Court  
59 of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-  
60 deviations is no longer mandatory and that the free movement of products complying with such a standard should not be  
61 restricted within the EC except under the safeguard procedure provided for in the relevant Directive or Regulation.

62 A-deviations in non EU countries are valid instead of the respective provisions of the European Standard until  
63 the national situation causing the A-deviation has changed.

<u>Clause</u>	<u>Deviation</u>
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<b>7 and 8</b>	<b>France</b>
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(Arrêté of the 22<sup>th</sup> September 1969)

Socket-outlets 10/16 A intended for providing power to other appliances except those supplied by an isolating transformer shall be shuttered.

(Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique)

Section VIII, Installations électriques et éclairage

Article GH 48, Eclairage

§ 1 Généralités:

c) Les parties externes des luminaires satisfont à l'essai au fil incandescent, la température du fil incandescent étant de:

– 850°C pour les luminaires dans les escaliers et les circulations horizontales communes ;

– 650°C pour les luminaires dans les locaux.

**United Kingdom**

(Approved Document B of the United Kingdom Building Regulations)

Particular fire protection requirements relating to thermoplastic diffusers are listed in Subclause 6.15 of the above Regulations."

64 **6 Addition of Annex ZA, "Normative references to international publications with**  
65 **their corresponding European publications" and Annex ZZ, "Relationship**  
66 **between this European standard and the safety objectives of Directive**  
67 **2014/35/EU [2014 OJ L96] aimed to be covered"**

68 *Add the following Annexes ZA and ZZ:*

69 “

## Annex ZA (normative)

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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60061-2 (mod)	-	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders	EN 60061-2 + A1 to A57	1993
IEC 60061-3	-	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges	EN 60061-3 + A1 to A58	1993
IEC 60068-2-6	-	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)	EN 60068-2-6	2008
IEC 60068-2-14	2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature	EN 60068-2-14	2009
IEC 60068-2-31	2008	Environmental testing – Part 2-31: Tests – Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	2008
IEC 60068-2-75	-	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	2014
IEC/TR 60083	-	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	-	-
IEC 60085	-	Electrical insulation - Thermal evaluation and designation	EN 60085	2008
IEC 60112	2020	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN IEC 60112	2020
IEC 60155	-	Glow-starters for fluorescent lamps	EN 60155 + A1 + A2	1995 1995 2007
IEC 60227	all parts	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	EN 50525 <sup>1</sup>	all parts

<sup>1</sup> EN 50525 Series, which is related to, but not directly equivalent with IEC 60227 Series, applies instead.