



**SLOVENSKI STANDARD**  
**SIST EN 60598-1:2015/A1:2018**  
**01-maj-2018**

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**Svetilke - 1. del: Splošne zahteve in preskusi - Dopolnilo A1 (IEC 60598-1:2014/A1:2017)**

Luminaire - Part 1: General requirements and tests (IEC 60598-1:2014/A1:2017)

Leuchten - Teil 1: Allgemeine Anforderungen und Prüfungen (IEC 60598-1:2014/A1:2017)

Luminaire - Partie 1: Exigences générales et essais (IEC 60598-1:2014/A1:2017)

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**Ta slovenski standard je istoveten z: EN 60598-1:2015/A1:2018**

SIST EN 60598-1:2015/A1:2018  
<https://standards.iteh.ai/catalog/standards/sist/1c603046-4f12-4851-b263-c3c91e544200/sist-en-60598-1-2015-a1-2018>

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**ICS:**

29.140.40

Svetila

Luminaire

**SIST EN 60598-1:2015/A1:2018**

**en**

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EUROPEAN STANDARD

EN 60598-1:2015/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2018

ICS 29.140.40

English Version

## Luminaires - Part 1: General requirements and tests (IEC 60598-1:2014/A1:2017)

Luminaires - Partie 1: Exigences générales et essais  
(IEC 60598-1:2014/A1:2017)

Leuchten - Teil 1: Allgemeine Anforderungen und  
Prüfungen  
(IEC 60598-1:2014/A1:2017)

This amendment A1 modifies the European Standard EN 60598-1:2015; it was approved by CENELEC on 2017-10-20. 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, 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

**EN 60598-1:2015/A1:2018 (E)****European foreword**

The text of document 34D/1292/FDIS, future IEC 60598-1:2014/A1, 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 60598-1:2015/A1:2018.

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) 2018-08-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-02-23

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.

ITEH STANDARD PREVIEW  
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**Endorsement notice**

<https://standards.iteh.ai/catalog/standards/sist/fc603646-4ff2-4851-b265-c3c91e544200/sist-en-60598-1-2015-a1-2018>

The text of the International Standard IEC 60598-1:2014/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the Bibliography of EN 60598-1:2015, the following note has to be added for the standard indicated:

IEC 60664 Series

NOTE Harmonized as EN 60664 Series.

## 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 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>
<i>In Annex ZA of EN 60598-1:2015 add the following new references:</i>				
IEC 60228	2004	Conductors of insulated cables	EN 60228	2005
IEC 60664-4	2005	Insulation coordination for equipment within low-voltage systems -- Part 4: Consideration of high-frequency voltage stress	EN 60664-4	2006
IEC 60998-2-1 (mod)	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	EN 60998-2-1	2004
IEC 60998-2-2 (mod)	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	EN 60998-2-2	2004

**Annex ZZ**  
(informative)

**Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered**

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZ.1 – Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
<b>1. General conditions</b>	(standards.iteh.ai)	
a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document;	Section 3 <a href="https://standards.iteh.ai/catalog/standards/sist/fc603646-4f2-4851-b265-3e91e544200/sist-en-60598-1-2015-a1-2018">SIST EN 60598-1:2015/A1:2018</a>	To be used in conjunction with relevant part 2
b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected;	Section 4	To be used in conjunction with relevant part 2
c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately	See item 2 and 3 of this table	

maintained.		
<p><b>2. Protection against hazards arising from the electrical equipment</b></p> <p>Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:</p>		
a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact;	<p>Section 4</p> <p>Section 7</p> <p>Section 14 and 15</p> <p>Section 5</p> <p>Section 8</p>	All to be used in conjunction with relevant part 2
b) temperatures, arcs or radiation which would cause a danger, are not produced;	<p>Section 4</p> <p>Section 11</p> <p>Section 12</p> <p>Section 10</p>	EMF is not covered All to be used in conjunction with relevant part 2
c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience;	<p>Section 4</p> <p>Section 10</p> <p>Section 11</p>	All to be used in conjunction with relevant part 2
d) the insulation is suitable for foreseeable conditions.	<p>Section 9</p> <p>Section 10</p>	All to be used in conjunction with relevant part 2
<p><b>3. Protection against hazards which may be caused by external influences on the electrical equipment</b></p> <p>Technical measures shall be laid down in accordance with point 1, in order to ensure that the electrical equipment:</p>		
a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered;	<p>Section 3</p> <p>Section 4</p>	All to be used in conjunction with relevant part 2
b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered;	<p>Section 9</p> <p>Section 13</p>	All to be used in conjunction with relevant part 2
c) does not endanger persons, domestic animals and property	<p>Section 4</p>	All to be used in conjunction with relevant part 2

**EN 60598-1:2015/A1:2018 (E)**

in foreseeable conditions of overload.	Section 12	
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**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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[SIST EN 60598-1:2015/A1:2018](https://standards.iteh.ai/catalog/standards/sist/fc603646-4ff2-4851-b265-c3c91e544200/sist-en-60598-1-2015-a1-2018)

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IEC 60598-1

Edition 8.0 2017-09

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



AMENDMENT 1  
AMENDEMENT 1

Luminaire – iTeh STANDARD PREVIEW  
Part 1: General requirements and tests  
(standards.iteh.ai)

Luminaire –  
Partie 1: Exigences générales et essais  
[SIST EN 60598-1:2015/A1:2018  
https://standards.iteh.ai/catalog/standards/sist/603646-4ff2-4851-b265-c3e91e544200/sist-en-60598-1-2015-a1-2018](https://standards.iteh.ai/catalog/standards/sist/603646-4ff2-4851-b265-c3e91e544200/sist-en-60598-1-2015-a1-2018)

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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/1292/FDIS	34D/1298/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.

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**IMPORTANT – The 'colour inside logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

## 0.1 Scope

Delete the existing 12th paragraph starting with "Attention is drawn ...".

## 0.2 Normative references

Add the following new references:

IEC 60228:2004, *Conductors of insulated cables*

IEC 60664-4:2005, *Insulation coordination for equipment within low-voltage systems – Part 4: Consideration of high-frequency voltage stress*

IEC 60998-2-1, *Connecting devices for low-voltage circuits for household and similar purposes – Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units*

IEC 60998-2-2, *Connecting devices for low-voltage circuits for household and similar purposes – Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units*

## 0.4 General test requirements and verification

### 0.4.2

*Delete the existing fourth paragraph starting with "In accordance with IEC guidelines ..."*

## 0.6 List of parts of IEC 60598-2

*Add, after the existing Clause 0.6, a new Clause 0.7 as follows:*

## 0.7 Information for luminaire design in light sources standards

**0.7.1** In accordance with IEC guidelines, IEC standards are divided into those covering either safety or performance.

**0.7.2** In light source safety standards, "information for luminaire design" is given for the safe operation of light sources; this shall be regarded as normative when testing luminaires to this standard.

**0.7.3** In light source performance standards, "information for luminaire design" is given for the correct performance of light sources; this shall be regarded as informative when testing luminaires to this standard. Testing of light source performance is not required as part of the type test approval for luminaires.

## 1.2 Terms and definitions

SIST EN 60598-1:2015/A1:2018

*Add, after 1.2.11, the following new entry:*

### 1.2.11.1

#### rated constant input voltage

input voltage or voltages assigned by the manufacturer for luminaires not equipped with controlgear

Note 1 to entry: The rated constant input voltage of the luminaire corresponds to the rated output voltage of the constant voltage controlgear.

*Add, after 1.2.12, the following new entry:*

### 1.2.12.1

#### rated constant input current

input current or currents assigned by the manufacturer for luminaires not equipped with controlgear

Note 1 to entry: The rated constant input current of the luminaire corresponds to the rated output current for constant current controlgear.

*Add, after 1.2.43, the following new entries:*

### 1.2.43.1

#### maximum working peak output voltage

$\hat{U}_{out}$   
maximum repetitive occurring peak working voltage between the output terminals or between the output terminals and earth, during normal or abnormal operating condition and with transients neglected

[SOURCE: IEC 61347-1:2015, 3.45]