



SLOVENSKI STANDARD

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Svetilke - 1. del: Splošne zahteve in preskusi (IEC 60598-1:2008, spremenjen)

Luminaires - Part 1: General requirements and tests (IEC 60598-1:2008, modified)

Leuchten - Teil 1: Allgemeine Anforderungen und Prüfungen (IEC 60598-1:2008, modifiziert)

Luminaires - Partie 1: Exigences générales et essais (CEI 60598-1:2008, modifiée)

[SIST EN 60598-1:2009](https://standards.iteh.ai/catalog/standards/sist/9d594ceb-89a1-45d5-8d19-a5a2025fa04/sist-en-60598-1-2009)

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Ta slovenski standard je istoveten z: EN 60598-1:2008

ICS:

29.140.40

Svetila

Luminaires

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60598-1

October 2008

ICS 29.140.40

Supersedes EN 60598-1:2004 + A1:2006

English version

**Luminaires -
Part 1: General requirements and tests
(IEC 60598-1:2008, modified)**

Luminaires -
Partie 1: Exigences générales
et essais
(CEI 60598-1:2008, modifiée)

Leuchten -
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und Prüfungen
(IEC 60598-1:2008, modifiziert)

This European Standard was approved by CENELEC on 2008-10-21. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

<https://standards.iteh.ai/catalog/standards/sist/9d594ceb-89a1-45d5-8d19-45a293ca079a/en-60598-1:2008>

This European Standard 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 34D/889/FDIS, future edition 7 of IEC 60598-1, prepared by SC 34D, Luminaires, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the Technical Committee CENELEC TC 34Z, Luminaires and associated equipment, covering the needed common modifications towards IEC 60598-1:2008 (34D/889/FDIS) was submitted to the formal vote.

The combined texts were approved by CENELEC as EN 60598-1 on 2008-10-21.

This European Standard supersedes EN 60598-1:2004 + A1:2006 + corrigendum August 2007.

The major changes which may affect certification are given in Annex R. Annex R shows where a new text has been included which contains more serious/critical requirements requiring products to be re-tested.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-04-12

NOTE In this standard, the following print types are used:

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

Annexes ZA, ZB and ZC have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60598-1:2008 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

3 Marking

3.2.12 Delete NOTE 3.

3.3 Add a new subclause:

3.3.101 Where the terminal block is not supplied with the luminaire, the packaging needs to contain the following wording:

"Terminal block not included. Installation may require advice from a qualified person."

4 Construction

4.11.6 At the end of the paragraph commencing "Following completion of these tests...", add "[the test voltage however being reduced to 1 500 V]"

5 External and internal wiring

5.2.1 Replace the indent relating to "Fixed luminaires" by:

Fixed luminaires terminals; plugs for engagement with socket-outlets;

non-detachable flexible cables or cords;

adapters for engagement with supply tracks;

appliance inlets;

connecting leads (tails):

account shall be taken of national installation rules/practice when deciding whether to supply a connection device or not. Where the luminaire is delivered with connecting leads (tails) and without a means of connection to the supply, the manufacturer of the luminaire shall specify which terminal block may be used which shall conform to EN 60998-2-1 or EN 60998-2-2; either the terminal block to be used shall be specified or the following shall be defined:

- the type of terminal (screw/screwless);
- number of terminals;
- rated voltage;
- rated connecting capacity;
- any necessary preparation of the ends of conductors;
- any fixing method.

The requirements of 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 shall be applied.

5.2.2 In paragraph 1, **replace** "IEC 60227 and IEC 60245" by "HD 21 and HD 22".

Delete paragraph 2.

Replace Table 5.1 by:

Table 5.1 - Non detachable flexible cables or cords

	Rubber	PVC
Ordinary class I luminaires	H03RT-H	H03VVH2-F H03VV-F
Ordinary class II luminaires	H05RR-F	H03VVH2-F H03VV-F
Luminaires other than ordinary	H05RN-F	–
Portable rough service luminaires	H07RN-F	–

12 Endurance test and thermal test

12.4.2 c) Line 2, after "90 °C" **add** "(see footnote ^c to Table 12.2 relating to unsleeved fixed wiring)".

Table 12.2 In footnote ^c **add** the following:

- after "European installation standards": "(HD 60364 (HD 384))";
- after "European cable standards": "(HD 21)".

Bibliography

Add the following notes for the standards indicated:

IEC 60081	NOTE	Harmonized as EN 60081:1998 (not modified).
IEC 60216	NOTE	Harmonized in EN 60216 series (not modified).
IEC 60364	NOTE	Harmonized in HD 384/HD 60364 series (modified).
IEC 60364-5-51	NOTE	Harmonized as HD 60364-5-51:2006 (modified).
IEC 60598-2-3	NOTE	Harmonized as EN 60598-2-3:2003 (not modified).
IEC 60598-2-5	NOTE	Harmonized as EN 60598-2-5:1998 (not modified).
IEC 60598-2-6	NOTE	Harmonized as EN 60598-2-6:1994 (not modified).
IEC 60664-3	NOTE	Harmonized as EN 60664-3:2003 (not modified).
IEC 60695	NOTE	Harmonized in EN 60695 series (not modified).
IEC 60695-2-11	NOTE	Harmonized as EN 60695-2-11:2001 (not modified).
IEC 60811-3-1	NOTE	Harmonized as EN 60811-3-1:1995 (not modified).
IEC 60901	NOTE	Harmonized as EN 60901:1996 (not modified).
IEC 60921	NOTE	Harmonized as EN 60921:2004 (not modified).

IEC 60923	NOTE Harmonized as EN 60923:2005 (not modified).
IEC 60925	NOTE Harmonized as EN 60925:1991 (not modified).
IEC 60929	NOTE Harmonized as EN 60929:2006 (not modified).
IEC 60950-1	NOTE Harmonized as EN 60950-1:2006 (modified).
IEC 61195	NOTE Harmonized as EN 61195:1999 (not modified).
IEC 61210	NOTE Harmonized as EN 61210:1995 (modified).
IEC 61346-1	NOTE Harmonized as EN 61346-1:1996 (not modified).
IEC 61995	NOTE Harmonized in EN 61995 series (modified).
ISO 75-2	NOTE Harmonized as EN ISO 75-2:1996 (not modified).

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60061 (mod)	Series	Lamp caps and holders together with gauges for the control of interchangeability and safety	EN 60061	Series
IEC 60061-2 (mod)	– ¹⁾	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders	EN 60061-2 + A1 to A37	1993 ²⁾
IEC 60061-3	data-base	Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges	EN 60061-3 + A1 to A38	1993 ²⁾
IEC 60065 (mod)	2001	Audio, video and similar electronic apparatus - Safety requirements	EN 60065 + corr. August	2002 2007
IEC 60068-2-75	– ¹⁾	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997 ²⁾
IEC 60079 (mod)	Series	Explosive atmospheres	EN 60079	Series
IEC 60083	– ¹⁾	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	–	–
IEC 60085	– ¹⁾	Thermal evaluation and designation of electrical insulation	EN 60085	2008 ²⁾
IEC 60112	2003	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	2003
IEC 60155	– ¹⁾	Glow-starters for fluorescent lamps	EN 60155	1995 ²⁾
IEC 60227	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21 ³⁾	Series
IEC 60238	2004	Edison screw lampholders	EN 60238 + corr. January	2004 2005

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

³⁾ The HD 21 series, *Cables of rated voltages up to and including 450/750 V and having thermoplastic insulation*, is related to, but not directly equivalent with the IEC 60227 series.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60245	Series	Rubber insulated cables - Rated voltages up to and including 450/750 V	HD 22 ⁴⁾	Series
IEC 60269 (mod)	Series	Low-voltage fuses	EN/HD 60269	Series
IEC 60320	Series	Appliance couplers for household and similar general purposes	EN 60320	Series
IEC 60357 (mod)	– ¹⁾	Tungsten halogen lamps (non-vehicle) - Performance specifications	EN 60357 + corr. July	2003 ²⁾ 2003
IEC 60360	– ¹⁾	Standard method of measurement of lamp cap temperature rise	EN 60360	1998 ²⁾
IEC 60364-4-41 (mod)	2005	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41 + corr. July	2007 2007
IEC 60384-14	– ¹⁾	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14	2005 ²⁾
IEC 60400	– ¹⁾	Lampholders for tubular fluorescent lamps and starterholders	EN 60400	2008 ²⁾
IEC 60417	data-base	Graphical symbols for use on equipment	–	–
IEC 60432-1 (mod) A1	1999 2005	Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes	EN 60432-1 A1	2000 2005
IEC 60432-2 (mod) A1 (mod)	1999 2005	Incandescent lamps - Safety specifications - Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes	EN 60432-2 A1	2000 2005
IEC 60432-3	– ¹⁾	Incandescent lamps - Safety specifications - Part 3: Tungsten-halogen lamps (non-vehicle)	EN 60432-3	2003 ²⁾
IEC 60449 + A1	1973 1979	Voltage bands for electrical installations of buildings	HD 193 S2	1982
IEC 60529	– ¹⁾	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 ²⁾ 1993
IEC 60570 (mod)	2003	Electrical supply track systems for luminaires	EN 60570	2003
IEC 60598-2 (mod)	Series	Luminaires - Part 2: Particular requirements	EN 60598-2	Series
IEC 60598-2-4	1997	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	EN 60598-2-4	1997

⁴⁾ The HD 22 series, *Cables of rated voltages up to and including 450/750 V and having cross-linked insulation*, is related to, but not directly equivalent with the IEC 60245 series.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60634	– ¹⁾	Heat test source (H.T.S.) lamps for carrying out heating tests on luminaires	EN 60634	1995 ²⁾
IEC 60662 (mod)	– ¹⁾	High pressure sodium vapour lamps	EN 60662	1993 ²⁾
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 60682	– ¹⁾	Method of measuring the pinch temperature of quartz glass lamps	EN 60682	1993 ²⁾
IEC 60684	Series	Flexible insulating sleeving	EN 60684	Series
IEC 60695-2	Series	Fire hazard testing - Part 2: Glowing/hot-wire based test methods	EN 60695-2	Series
IEC 60695-2-10	– ¹⁾	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001 ²⁾
IEC 60695-11-5	– ¹⁾	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005 ²⁾
IEC 60838	Series	Miscellaneous lampholders	EN 60838	Series
IEC 60989	– ¹⁾	Separating transformers, autotransformers, variable transformers and reactors	–	–
IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
IEC 61058-1 (mod)	2000	Switches for appliances - Part 1: General requirements	EN 61058-1 ⁵⁾	2002
IEC 61140	2001	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2002
IEC 61167	– ¹⁾	Metal halide lamps	EN 61167	1994 ²⁾
IEC 61184	– ¹⁾	Bayonet lampholders	EN 61184	2008 ²⁾
IEC 61199	1999	Single-capped fluorescent lamps - Safety specifications	EN 61199	1999
IEC 61249	Series	Materials for printed boards and other interconnecting structures	EN 61249	Series
IEC 61347 (mod)	Series	Lamp controlgear	EN 61347	Series
IEC 61347-2-9	– ¹⁾	Lamp controlgear - Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)	EN 61347-2-9 + corr. July	2001 ²⁾ 2003
IEC 61558-1	2005	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests	EN 61558-1 + corr. August	2005 2006

⁵⁾ EN 61058-1 includes A1:2001 to IEC 61058-1 (mod).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61558-2 (mod)	Series	Safety of power transformers, power supplies, reactors and similar products - Part 2: Particular requirements	EN 61558-2	Series
IEC 61558-2-5	- ¹⁾	Safety of power transformers, power supply units and similar - Part 2-5: Particular requirements for shaver transformers and shaver supply units	EN 61558-2-5 + A11	1998 ²⁾ 2004
IEC 61558-2-6	- ¹⁾	Safety of power transformers, power supply units and similar - Part 2-6: Particular requirements for safety isolating transformers for general use	EN 61558-2-6	1997 ²⁾
IEC 62031	- ¹⁾	LED modules for general lighting - Safety specifications	EN 62031	2008 ²⁾
IEC 62035 (mod)	- ¹⁾	Discharge lamps (excluding fluorescent lamps) - Safety specifications	EN 62035	2000 ²⁾
IEC 62471 (mod)	- ¹⁾	Photobiological safety of lamps and lamp systems	EN 62471	2008 ²⁾
IEC 80416-1	- ¹⁾	Basic principles for graphical symbols for use on equipment - Part 1: Creation of symbol originals	EN 80416-1	2001 ²⁾
ISO 4046-4	2002	Paper, board, pulps and related terms - Vocabulary - Part 4: Paper and board grades and converted products	-	-

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Annex ZB (normative)

Special national conditions

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

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

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

Clause Special national condition

3.3 **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

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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:

Før tilslutning af the øvrige ledere,
se medfølgende vejledning.

Class I luminaires which, according to the exemption for Denmark in 5.2.1, are delivered with a supply cord with a plug in accordance with Standard Sheets DKA 2-1a, DKA 2-1b, C 1b, C 2b, C 3b or C 4, shall either be provided with the above tag or the same information shall be given in an enclosed instruction. The text concerning conductors having green/yellow insulation shall be quoted word-for-word.

NOTE "ø" may be replaced by "oe"; "æ" may be replaced by "ae".

Italy

For luminaires of class 0, the manufacturer's instructions shall include the following warning:

"ATTENZIONE - QUESTO APPARECHIO E' IDONEO SOLO PER AMBIENTI ISOLATI"

Clause Special national condition**4.5.1 Denmark**

Socket-outlets intended for providing power to other appliances shall be in compliance with Section 107-2-D1, the Standard Sheets being applied as follows:

Class I Standard Sheet DK 1-3a

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

Class II luminaires shall not be fitted with socket-outlets for providing power to other appliances.

EXEMPTION:

Socket-outlets supplied from isolation transformers (shaver supply units) and socket-outlets on outdoor luminaires may be in accordance with the requirement of Section 107-2-D1 for fixed socket-outlets.

5.2.1 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.

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Supply cords on single-phase portable luminaires having a rated current not exceeding 10 A shall be provided with a plug according to the following table:

Class of luminaire		Plug	
		Section 107-2-D1 Standard Sheet	EN 50075 Standard Sheet
I	Protection against indirect contact required	DK 2-1a*	
	Earthing connection not required	DK 2-1a, DKA 2-1a, DKA 2-1b, C 1b, C 2b, C 3b, C 4	
II		DKA 2-1a, DKA 2-1b, C 1b, C 5, C 6	I

* Luminaires fitted with a socket-outlet for providing power to other appliances.

For luminaires which are mainly used in locations where protection against indirect contact is required, see Section 10, Clause 17.

Clause Special national condition**5.2.1** **Denmark** (*continued*)

For luminaires having an appliance inlet, the plug on the supply cord shall comply with the above requirements. If other single-phase luminaires having a rated current not exceeding 10 A are provided with a supply cord with a plug, the plug shall comply with the above requirements.

EXEMPTION:

If single-phased fixed class I luminaires, intended for use in homes, and for which protection against indirect contact is required according to Section 10 of the Heavy Current Regulations, are provided with a plug, this plug may, until further notice, be in accordance with Standard Sheet DKA 2-1a, DKA 2-1b, C 1b, C 2b, C 3b or C 4, provided that the cord close to the plug is marked as required in 3.3.

If multi-phase luminaires and single-phase luminaires having a rated current exceeding 10 A are provided with a supply cord with a plug, the plug shall comply with the following table:

Class of luminaire	Plug	
	Section 107-2-D1 Standard Sheet	Section 117 Standard Sheet
I	DK 6-1a	II
II	DK 7-1a*	II*

* Earthing contact not connected.

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For luminaires provided with non-detachable flexible cables and cords and a plug, the plug shall comply with the requirements of CEE Publication 7 and EN 50075, the Standard Sheets to be applied being as follows:

- Class I luminaires CEE 7, sheet IV or VII
- Class II luminaires CEE 7, sheet XVI (alt I only) or CEE 7, 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.

Plugs must be fitted with the correct fuse.

Annex ZC (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 member.

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

NOTE (from CEN/CENELEC IR Part 2:2008, 2.17) Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No. C59; 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>
4 & 5	<p>France (Arrêté of the 22th September 1969)</p> <p>Socket-outlets 10/16 A intended for providing power to other appliances except those supplied by an isolating transformer shall be shuttered.</p>
13.3	<p>France (Regulation on the safety against fire and panic hazards in premises open to public. Arrêté of the 19th November 2001)</p> <p>External parts of fixed or suspended luminaires shall be subjected to a glow-wire test, the glow-wire temperature is:</p> <ul style="list-style-type: none"> - 850 °C for general purpose luminaires installed in closed horizontal routes and stairs; - 850 °C for general purpose luminaires installed in premises open to public if the total visible surface of the luminaires is more than 25 % of the premise surface; - 750 °C for the other general purpose luminaires installed in premises open to public. <p>(Regulation on the safety against fire in high buildings. Arrêté of the 18th October 1977)</p> <p>External parts of fixed or suspended luminaires shall be subjected to a glow-wire test, the glow-wire temperature is:</p> <ul style="list-style-type: none"> - 960 °C for general purpose luminaires installed in all emergency exits; - 750 °C for the other general purpose luminaires installed in premises open to the public.
	<p>United Kingdom (Approved Document B of the United Kingdom Building Regulations)</p> <p>Particular fire protection requirements relating to thermoplastic diffusers are listed in Subclause 6.15 of the above Regulations.</p>

United Kingdom