



# SLOVENSKI STANDARD

## SIST EN 60598-1:2000

01-december-2000

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SIST EN 60238:2000/A1:2000

SIST EN 60598-1:1998

SIST EN 60598-1:1998/A12:2000

SIST EN 60598-1:1998/A15:2003

SIST EN 60598-1:1999/A13:2000

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### Svetilke - 1. del: Splošne zahteve in preskusi

Luminaires -- Part 1: General requirements and tests

Leuchten -- Teil 1: Allgemeine Anforderungen und Prüfungen

Luminaires -- Partie 1: Prescriptions générales et essais

**Ta slovenski standard je istoveten z: EN 60598-1:2000**

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#### **ICS:**

29.140.40      Svetila      Luminaires

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EUROPEAN STANDARD

**EN 60598-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2000

ICS 29.140.40

Supersedes EN 60598-1:1997 + A1:1998 + A12:1998 + A13:1999

English version

**Luminaires**  
**Part 1: General requirements and tests**  
(IEC 60598-1:1999, modified)

Luminaires  
Partie 1: Prescriptions générales et essais  
(CEI 60598-1:1999, modifiée)

Leuchten  
Teil 1: Allgemeine Anforderungen und  
Prüfungen  
(IEC 60598-1:1999, modifiziert)

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This European Standard was approved by CENELEC on 2000-04-01. 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.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 the International Standard IEC 60598-1:1999, prepared by SC 34D, Luminaires, of IEC TC 34, Lamps and related equipment, together with common modifications prepared by the Technical Committee CENELEC TC 34Z, Luminaires and associated equipment, was approved by CENELEC as EN 60598-1 on 2000-04-01.

This European Standard supersedes EN 60598-1:1997 + corrigendum June 1999 and its amendments A1:1998 + corrigendum December 1998, A12:1998 and A13:1999.

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) 2001-01-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-04-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A, B, C, D, E, F, P, S, T, ZA and ZB are normative and annexes J, K, L, M, N, Q, R and ZC are informative.

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

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## Endorsement notice

The text of the International Standard IEC 60598-1:1999 was approved by CENELEC as a European Standard with agreed common modifications as given below.

### COMMON MODIFICATIONS

#### 3 Marking

3.2.12 **Delete** the note.

3.3 **Add** 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): 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 subclauses 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
Class 0 luminaires	H03RT-F	H03VH-H
Ordinary Class I luminaires	H03RT-F	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	-

5.2.15 **Replace** the text of this subclause by:

Connecting leads [tails] of extra-low voltage d.c. supplied fluorescent luminaires where supplied as the means of connection of the luminaire to the supply shall be colour coded red to indicate positive and black to indicate negative.

**12 Endurance test and thermal test**

12.4.2 c) Line 2, after "90° C" **add**: "(see note \*\*\* to table 12.2 relating to unsleeved fixed wiring)".

Table 12.2 In note \*\*\* **add** the following:  
 -after "European Installation Standards": "(HD 384)";  
 -after "European Cable Standards": "(HD 21)";

**Annex ZA (normative)****Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60061-2 + supplements + amendments (mod)	1969	Part 2: Lampholders	EN 60061-2 + amendments	1993
IEC 60061-3 + supplements + amendments (mod)	1969	Part 3: Gauges	EN 60061-3 + amendments	1993
IEC 60065 (mod)	1985	Safety requirements for mains operated electronic and related apparatus for household and similar general use	EN 60065 <sup>1)</sup>	1993
IEC 60068-2-63	1991	Environmental testing Part 2: Test methods - Test Eg: Impact, spring hammer	EN 60068-2-63	1994
IEC 60083 A1	1975 1979	Plugs and socket-outlets for domestic and similar general use - Standards	-	-
IEC 60085	1984	Thermal evaluation and classification of electrical insulation	HD 566 S1	1990
IEC 60112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2	1980
IEC 60155	1993	Glow-starters for fluorescent lamps	EN 60155	1995
IEC 60216	Series	Guide for the determination of thermal endurance properties of electrical insulating materials	EN 60216/HD 611	Series
IEC 60227 (mod)	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21 <sup>2)</sup>	Series

1) EN 60065 is superseded by EN 60065:1998 + corrigendum June 1999, which is based on IEC 60065:1998, mod.

2) The HD 21 series is related to, but not directly equivalent with the IEC 60227 series.

Publication	Year	Title	EN/HD	Year
IEC 60238 (mod)	1991	Edison screw lampholders	EN 60238 <sup>3)</sup>	1992
A1	1993		A1	1995
A2	1995		A2	1995
IEC 60245 (mod)	Series	Rubber insulated cables - rated voltages up to and including 450/750 V	HD 22 <sup>4)</sup>	Series
IEC 60320 (mod)	Series	Appliance couplers for household and similar general purposes	EN 60320	Series
IEC 60357 (mod)	1982	Tungsten halogen lamps (non-vehicle)		
+ A1 (mod)	1984		EN 60357	1988
A2 (mod)	1985			
+ A3 (mod)	1987			
+ A4 (mod)	1989		A4	1991
A5	1992			
+ corr. June	1992			
+ corr. November	1992			
A6	1993		A6	1994
A7	1994		A7	1994
A8	1995		A8	1995
IEC 60360	1987	Standard method of measurement of lamp cap temperature rise	EN 60360 <sup>5)</sup>	1989
IEC 60364-3 (mod)	1993	Electrical installations of buildings Part 3: Assessment of general characteristics	HD 384.3 S2	1995
A1	1994		-	-
A2	1995		-	-
IEC 60364-7-702 (mod)	1983	Part 7: Requirements for special installations or locations -- Section 702: Swimming pools	HD 384.7.702 S1	1991
IEC 60384-14	1993	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	-	-
IEC 60400 (mod)	1991	Lampholders for tubular fluorescent lamps and starterholders	EN 60400 <sup>6)</sup>	1992
A1	1993		+ corr. March	1992
A2	1994		A1	1994
			A2	1995
IEC 60416	1988	General principles for the creation of graphical symbols for use on equipment	HD 571 S1	1990
IEC 60417	1973	Graphical symbols for use on equipment - Index, survey and compilation of the single sheets	HD 243 S12 <sup>7)</sup>	1995

3) EN 60238 and its amendments are superseded by EN 60238:1998 + corrigendum February 1999, which is based on IEC 60238:1998.

4) The HD 22 series is related to, but not directly equivalent with the IEC 60245 series.

5) EN 60360 is superseded by EN 60360:1998, which is based on IEC 60360:1998.

6) EN 60400 and its amendments are superseded by EN 60400:2000, which is based on IEC 60400:1999, mod.

7) HD 243 S12 is superseded by EN 60417-1:1999 and EN 60417-2:1999, which are based on IEC 60417-1:1998 and IEC 60417-2:1998.



<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60432-1 (mod)	1993	Safety specifications for incandescent lamps Part 1: Tungsten filament lamps for domestic and similar general lighting purposes	EN 60432-1 <sup>8)</sup> + corr. April	1994 1995
A1	1995		A1	1997
IEC 60432-2 (mod)	1994	Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes	EN 60432-2 <sup>9)</sup> + corr. March	1994 1995
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60570	1995	Electrical supply track systems for luminaires	EN 60570	1996
IEC 60598-2 (mod)	Series	Luminaires Part 2: Particular requirements	EN 60598-2	Series
IEC 60598-2-4 (mod)	1979	Part 2: Particular requirements – Section 4: Portable general purpose luminaires	EN 60598-2-4 <sup>10)</sup>	1989
A3	1990		A3	1993
IEC 60630 (mod)	1994	Maximum lamp outlines for incandescent lamps	EN 60630 <sup>11)</sup>	1998
IEC 60634	1993	Heat test source (H.T.S.) lamps for carrying out heating tests on luminaires	EN 60634	1995
IEC 60662 + A2 + A3 A4 A5 A6 A7 A8	1980 1987 1990 1992 1993 1994 1995 1995	High-pressure sodium vapour lamps	EN 60662 A4 A5 A6 A7 -	1993 1994 1994 1994 1995 -
IEC 60664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	HD 625.1 S1 + corr. November	1996 1996
IEC 60684	Series	Flexible insulating sleeving	EN 60684/HD 523	Series
IEC 60695-2-2	1991	Fire hazard testing Part 2: Test methods Section 2: Needle-flame test	EN 60695-2-2	1994
IEC 60742 (mod)	1983	Isolating transformers and safety isolating transformers - Requirements	EN 60742 <sup>12)</sup>	1995
IEC 60838	Series	Miscellaneous lampholders	EN 60838	Series

8) EN 60432-1 and its amendments are superseded by EN 60432-1:2000, which is based on IEC 60432-1:1999, mod.

9) EN 60432-2 and its amendments are superseded by EN 60432-2:2000, which is based on IEC 60432-2:1999, mod.

10) EN 60598-2-4, which includes A1:1983 + A2:1987 to IEC 60598-2-4:1979 and its amendment A3:1993 are superseded by EN 60598-2-4:1997, which is based on IEC 60598-2-4:1997.

11) EN 60630 includes A1:1997 + A2:1998 to IEC 60630.

12) EN 60742 includes A1:1992 to IEC 60742.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60901	1987	Single-capped fluorescent lamps - Safety and performance requirements	EN 60901 <sup>13)</sup>	1990
A1	1989		A1	1990
A2	1992		A2	1993
IEC 60920	1990	Ballasts for tubular fluorescent lamps - General and safety requirements	EN 60920	1991
A1	1993		A1	1993
A2	1995		A2	1996
IEC 60922	1989	Ballasts for discharge lamps (excluding tubular fluorescent lamps) - General and safety requirements	EN 60922 <sup>14)</sup>	1991
A2	1992		A2	1993
IEC 60924	1990	D.C. supplied electronic ballasts for tubular fluorescent lamps - General and safety requirements	EN 60924	1991
A1	1993		A1	1994
IEC 60972	1989	Classification and interpretation of new lighting products	-	-
A1	1991	Classification and interpretation of new lighting products	-	-
IEC 60989	1991	Separating transformers, autotransformers, variable transformers and reactors	-	-
IEC 60990	1990	Methods of measurement of touch-current and protective conductor current	-	-
IEC 61032	1990	Test probes to verify protection by enclosures	HD 601 S1 <sup>15)</sup>	1991
IEC 61046	1993	D.C. or a.c. supplied electronic step-down convertors for filament lamps - General and safety requirements	EN 61046	1994
A1	1995		A1	1996
IEC 61058-1	1990	Switches for appliances Part 1: General requirements	EN 61058-1	1992
A1	1993		A1	1993
A2	1994		-	-
IEC 61167	1992	Metal halide lamps	EN 61167	1994
A1	1995		A1	1995
IEC 61184 (mod)	1993	Bayonet lampholders	EN 61184 <sup>16)</sup>	1994
IEC 61195	1993	Double-capped fluorescent lamps - Safety specifications	EN 61195 <sup>17)</sup>	1994

13) EN 60901 and its amendments are superseded by EN 60901:1996; which is based on IEC 60901:1996.

14) EN 60922 and its amendment are superseded by EN 60922:1997; which is based on IEC 60922:1997.

15) HD 601 is superseded by EN 61032:1998, which is based on IEC 61032:1997.

16) EN 61184 is superseded by EN 61184:1997, which is based on IEC 61184:1997.

17) EN 61195 is superseded by EN 61195:1999, which is based on IEC 61195:1999.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61199	1993	Single-capped fluorescent lamps - Safety specifications	EN 61199 <sup>18)</sup>	1994
ISO 75-2	1993	Plastics - Determination of temperature of deflection under load Part 2: Plastics and ebonite	EN ISO 75-2	1996
ISO 1891	1979	Bolts, screws, nuts and accessories - Terminology and nomenclature	-	-
ISO 4046	1978	Paper, board, pulp and related terms - Vocabulary	-	-

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18) EN 61199 is superseded by EN 61199:1999, which is based on IEC 61199:1999.

**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. 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.

<u>Clause</u>	<u>Special national condition</u>
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2.2	If in the CENELEC countries the wiring rules do not allow luminaires of class 0, then luminaires shall not be classified according to the type of protection against electric shock provided, as class 0.
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NOTE In Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Norway, Sweden and the United Kingdom, wiring rules do not allow any luminaire to be class 0. In Italy, wiring rules do not allow any luminaire to be class 0 except in special installations called "insulated installations".

3.3	<b>Denmark</b>
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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  
 SIST EN 60598-1:2000  
<https://standards.iteh.ai/catalog/standards/sist/e627cd17-ab1f-4323-84e7-48ec1cd69af4/sist-en-60598-1-2000>  

 eller 

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 subclause 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"

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.

**France**

Socket-outlets 10/16 A intended for providing power to other appliances except those supplied by an isolating transformer shall be shuttered in accordance with standard sheet V of CEE Publication 7 and with clauses 9 and 20 of IEC 60884-1.

## 5.2.1

**Denmark****iTeh STANDARD PREVIEW****(standards.iteh.ai)**

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:

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		Plug
Class of luminaire		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
* 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, § 17.

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.

5.2.1  
(cont'd)**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	DK7-1a*	II*
* Earthing contact not connected.		

**Finland and Sweden**

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

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**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 73/23/EEC.

NOTE (from CEN/CENELEC IR Part 2, 3.1.9) Where standards fall under EC 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>
13.3	<p><b>Denmark</b> (Stærkstrømsbekendtgørelsen - Elektriske Installationer 1993, § 716.4)</p> <p>For luminaires installed in access routes, including staircases, and escape routes of public and communal buildings, luminaire enclosures shall comply with the needle flame test of 13.3.1, but with the flame applied for 30 s, or the glow-wire test of 13.3.2, but with the glow-wire heated to 750 °C.</p> <p><b>United Kingdom</b> (Approved document B of the United Kingdom Building Regulations)</p> <p>Particular fire protection requirements are listed in the above regulations.</p> <p><a href="https://standards.iteh.ai/catalog/standards/sist/e627cd17-ab1f-4323-84e7-48ec1cd69af1/sist-en-60598-1-2000">https://standards.iteh.ai/catalog/standards/sist/e627cd17-ab1f-4323-84e7-48ec1cd69af1/sist-en-60598-1-2000</a></p>
13.3.2	<p><b>France</b> (Regulation on the safety against fire hazards in premises open to public and workers (clause EC4, subclause 2))</p> <p>For luminaires installed in closed horizontal routes and stairs, a temperature of the glow-wire of 850 °C and an extinguishing time of 5 s are required.</p> <p>In the other cases, if the area of the ceiling covered by luminaires is not too large, a temperature of the glow-wire of 750 °C and an extinguishing time of 5 s are required.</p>