



SLOVENSKI STANDARD SIST EN 60598-2-3:1995

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Luminaire - Part 2: Particular requirements - Section 3: Luminaires for road and street lighting

Luminaire -- Part 2-3: Particular requirements - Luminaires for road and street lighting

Leuchten -- Teil 2-3: Besondere Anforderungen - Leuchten für Straßen- und Wegebeleuchtung

Luminaire -- Partie 2-3: Règles particulières - Luminaires d'éclairage public

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EUROPEAN STANDARD

EN 60598-2-3

NORME EUROPEENNE

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June 1994

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Descriptors: Particular requirements, luminaire for road and street lighting

ENGLISH VERSION

Luminaires

Part 2: Particular requirements

Section three: Luminaires for road and street
lighting

(IEC 598-2-3:1993)

Luminaires

Partie 2: Règles particulières

Section trois: Luminaires
d'éclairage public

(CEI 598-2-3:1993)

Leuchten

Teil 2: Besondere Anforderungen

Hauptabschnitt drei:

Straßenleuchten

(IEC 598-2-3:1993)

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This European Standard was approved by CENELEC on 1994-03-08.

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, 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

At the request of the CENELEC Technical Committee TC 34Z, Luminaires and associated equipment, the International Standard IEC 598-2-3:1993 was submitted to the CENELEC Unique Acceptance Procedure (UAP) in May 1993 for acceptance as a European Standard.

The text of the International Standard was approved by CENELEC as EN 60598-2-3 on 8 March 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-03-01
- latest date of withdrawal of conflicting national standards (dow) 1995-03-01

For products which have complied with EN 60598-2-3:1989 before 1995-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-03-01.

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ENDORSEMENT NOTICE

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The text of the International Standard IEC 598-2-3:1993 was approved by CENELEC as a European Standard without any modification.

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Luminaires

Partie 2:

Règles particulières

Section trois: Luminaires d'éclairage public

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Luminaires

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Part 2:

Particular requirements

Section three: Luminaires for road and street lighting

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES

Part 2: Particular requirements
Section Three – Luminaires for road and street lighting

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

International Standard IEC 598-2-3 has been prepared by sub-committee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 1979 and its amendments 1 (1983) and 2 (1987).

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

DIS	Report on Voting
34D(CO)218	34D(CO)234

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

This publication shall be read in conjunction with IEC 598-1: *Luminaires, Part 1: General requirements and tests*.

LUMINAIRES

Part 2: Particular requirements Section Three – Luminaires for road and street lighting

3.1 Scope

This section of Part 2 of IEC 598 specifies requirements for luminaires for road and street lighting, for use with tungsten filament, tubular fluorescent and other discharge lamps on supply voltages not exceeding 1 000 V. It is to be read in conjunction with those sections of Part 1 to which reference is made.

3.2 General test requirements

The provisions of Section Zero of IEC 598-1 apply. The tests described in each appropriate section of Part 1 shall be carried out in the order listed in this section of Part 2.

3.3 Definitions

For the purposes of this section, the definitions of Section One of IEC 598-1 apply together with the following definitions.

3.3.1 *Span wire*

A wire between main supports which carries the weight of the complete installation.

NOTE – This may include several luminaires, supply cables and a stay wire.

3.3.2 *Suspension wire*

A wire attached to the span wire and carrying the weight of the luminaire.

3.3.3 *Stay wire*

A tensioned wire between main supports to limit lateral and rotary movement of the suspended luminaires.

3.4 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section Two of IEC 598-1.

NOTE – Luminaires for road and street lighting are normally suitable for one or more of the following modes of installation:

- 1) On a pipe (bracket) or the like.
- 2) On a mast (column) arm
- 3) On a post top.
- 4) On span or suspension wires.
- 5) On a wall.

3.5 Marking

The provisions of Section Three of IEC 598-1 apply. In addition, the following information shall be provided in the instruction leaflet supplied with the luminaire:

- 1) Design attitude (normal operating position).
- 2) Weight including control gear if any.
- 3) Overall dimensions.
- 4) If intended for mounting more than 8 m above ground level, the maximum projected area subjected to wind force, see 3.6.3.1.
- 5) The range of cross-sectional areas of suspension wires suitable for the luminaire, if applicable.

3.6 Construction

The provisions of Section Four of IEC 598-1 apply together with the requirements of 3.6.1 to 3.6.5.

3.6.1 Road and street lighting luminaires shall have protection against ingress of moisture of at least IPX3.

3.6.2 Luminaires for suspension on span wires shall be fitted with clamping devices for this purpose and the range of span wire sizes for which the clamping devices are suitable shall be stated in the instruction leaflet supplied with the luminaire. The device shall clamp the span wire to prevent movement of the luminaire with respect to the span wire.

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The suspension devices shall not damage the span wire during installation and during normal use of the luminaire.

Compliance shall be checked by inspection after fitting the luminaire to the smallest and largest span wires in the range stated by the luminaire manufacturer.

NOTE – Care should be taken to avoid electrolytic corrosion between the clamping device and span wire.

3.6.3 The means for attaching the luminaire to its support shall be appropriate to the weight of the luminaire. The connection shall be designed to withstand wind speeds of 150 km/h on the projected surface of the assembly without undue deflection.

Fixings which carry the weight of the luminaire and internal accessories shall be provided with means to prevent the dislodgement of any part of the luminaire by vibration, either in service or during maintenance.

Parts of luminaires which are fixed other than with at least two devices, for example, screws or equivalent means of sufficient strength, shall have such extra protection as to prevent those parts falling and endangering persons, animals and surroundings, should a fixing device fail under normal conditions.

Compliance shall be checked by inspection and, for mast arm or post top mounted luminaires, by the test of 3.6.3.1.