

SLOVENSKI STANDARD SIST EN 60598-2-3:1995/A2:2003

01-marec-2003

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

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

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

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

SIST EN 60598-2-3:1995/A2:2003

Ta slovenski standard je istoveten z: EN 60598-2-3:1994/A2:2001

ICS:

29.140.40 Svetila 93.080.40 Cestna razsvetljava in pripadajoča oprema Luminaires Street lighting and related equipment

SIST EN 60598-2-3:1995/A2:2003

en,fr,de

SIST EN 60598-2-3:1995/A2:2003

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 60598-2-3:1995/A2:2003</u> https://standards.iteh.ai/catalog/standards/sist/cb05ced6-9924-4788-b86a-47b678eb3da0/sist-en-60598-2-3-1995-a2-2003

SIST EN 60598-2-3:1995/A2:2003

EUROPEAN STANDARD

EN 60598-2-3/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2001

ICS 29.140.40; 93.080.40

English version

Luminaires Part 2-3: Particular requirements - Luminaires for road and street lighting (IEC 60598-2-3:1993/A2:2000)

Luminaires Partie 2-3: Règles particulières -Luminaires d'éclairage public (CEI 60598-2-3:1993/A2:2000) Leuchten Teil 2-3: Besondere Anforderungen -Leuchten für Straßen- und Wegebeleuchtung (IEC 60598-2-3:1993/A2:2000)

Teh STANDARD PREVIEV (standards.iteh.ai)

IST EN 60598-2-3:1995/A2:2003

This amendment A2 modifies the European Standard EN 60598-2-3:1994; it was approved by CENELEC on 2000-12-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CENELEC

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

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Foreword

The text of document 34D/600/FDIS, future amendment 2 to IEC 60598-2-3:1993, prepared by SC 34D, Luminaires, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60598-2-3:1994 on 2000-12-01.

The following dates were fixed:

at n	est date by which the amendment has to be implemented national level by publication of an identical ional standard or by endorsement	(dop)	2001-09-01	
	est date by which the national standards conflicting the amendment have to be withdrawn	(dow)	2007-12-01	
Approved designated "informative" are given for information only				

Annexes designated "informative" are given for information only. In this standard, annex A is informative.

Endorsement notice

The text of amendment 2:2000 to the International Standard IEC 60598-2-3:1993 was approved by CENELEC as an amendment to the European Standard without any modification.

(standa<u>rds.it</u>eh.ai)

<u>SIST EN 60598-2-3:1995/A2:2003</u> https://standards.iteh.ai/catalog/standards/sist/cb05ced6-9924-4788-b86a-47b678eb3da0/sist-en-60598-2-3-1995-a2-2003 SIST EN 60598-2-3:1995/A2:2003

NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI IEC 60598-2-3

1993

AMENDEMENT 2 AMENDMENT 2 2000-12

Amendement 2

Luminaires –

Partie 2-3: Règles particulières – Luminaires d'èclairage public

Amendment 2

https://stand Luminaires .

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

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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/600/FDIS	34D/610/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 the base publication and its amendments will remain unchanged until 2002-04. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

Page 11

Replace the title and text of subclause 3.6.3.1 by the following: do-9924-4788-b86a

3.6.3.1 Static load test for mast arm or post top mounted luminaires

The luminaire is mounted in such a way that the most critical surface is loaded.

The most critical surface is determined by calculating the highest value of $Cd \times S$

where

Cd is the drag coefficient;

S is the area of the surface to be loaded (m^2) .

The drag coefficient depends on the shape of the surface. For luminaires for which the Cd is not measured the value of 1,2 shall be taken.

NOTE 1 See annex A for measurement of Cd.

The means of attachment shall be secured in accordance with the manufacturer's instructions.

A constant evenly distributed load is applied for 10 min on the most critical surface.

NOTE 2 See figure 1 for methods of equal distribution of the load. In cases where bags are used, these can be filled with sand, lead shot or small balls.

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The load shall be equal to

 $F = 1/2 Rh \times S \times Cd \times V^2$ (N)

where

Rh is equal to 1,225 kg/m³ (air volumic mass);

V is the wind speed (m/s).

The wind speeds relevant to the mounting heights of luminaires shall be

V = 45 m/s (163 km/h) for heights up to 8 m;

V = 52 m/s (188 km/h) for heights between 8 m and 15 m;

V = 57 m/s (205 km/h) for heights of more than 15 m.

NOTE 3 In some countries, the wind speed is determined by national rules (for example Japan).

The drag coefficient is 1,2 (or the exact value measured in annex A).

After the test, there shall be no visible failure impairing the safety, no permanent deformation from the attachment which exceeds a slope of more than 2 cm/m, and no rotation around the point of attachment.

3.6.5 Replace the third sentence of the third paragraph and all of the fourth paragraph by the following:

Within 5 min of fracture, count the particles in a 50 mm square, located approximately at the centre of the area of coarsest fracture but always within the confines of the glass.

NOTE Where possible, the area of measurement should not be within 30 mm of any edge, hole or machining of the glass.

A glass is deemed to have passed the test if the number of particles in the 50 mm square is more than 60; glass splinters and pieces less than the full thickness of the glass being excluded from the count. For glass of smaller size where a 50 mm \times 50 mm area is not possible, the number of pieces necessary in the count is proportionately reduced.

In the count of the total number of particles in the 50 mm square, the particles in the centre of the square plus those at the edge shall be taken into account. In order to count particles at the edge of the square, it is recommended that all pieces intersected by two adjacent sides be included and all particles intersected by the two other sides be ignored (see figure 2).

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Delete the sixth paragraph of 3.6.5.

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Delete the existing figure 1 and insert the following new figures 1 and 2:

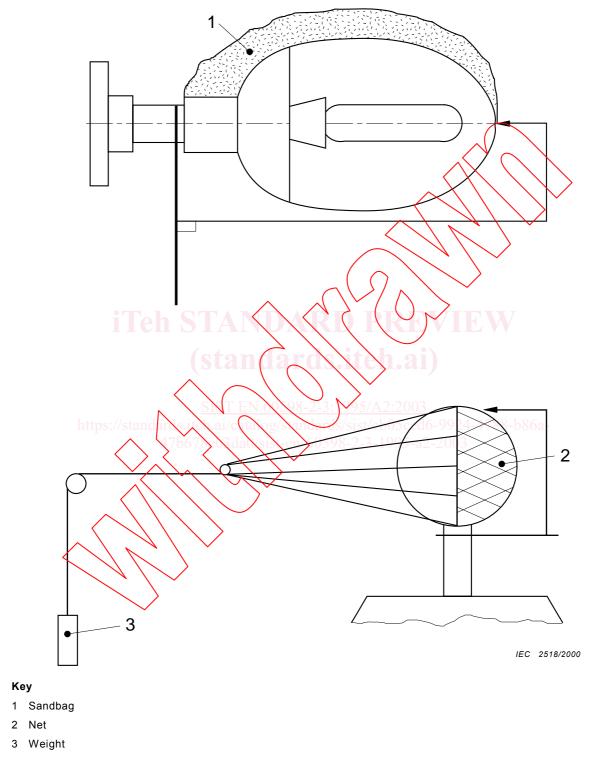
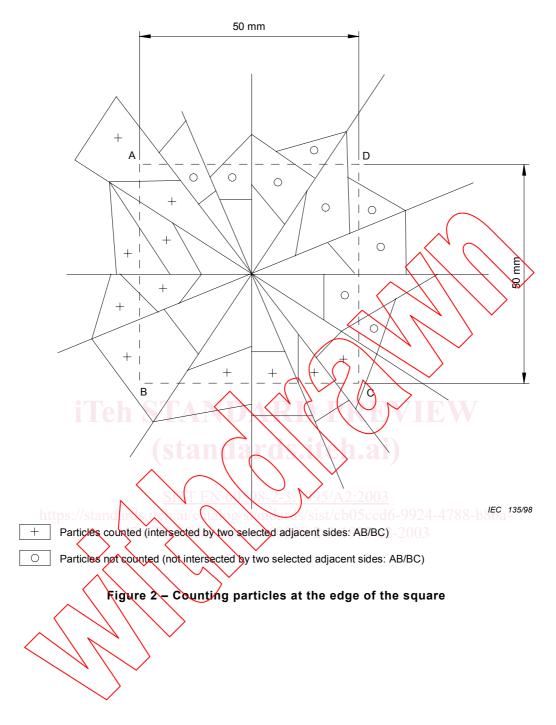


Figure 1 – Different procedures for the static wind force test





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Insert, after figures 1 and 2, the following new annex A:

Annex A

(informative)

Drag coefficient measurement

The drag coefficient measurement is performed in the same way as the method used to determine the drag coefficient values introduced in ISO 4354.

The luminaire measurement is easier than measurement on a complicated structure (motionless tested luminaire representing the actual size of the luminaire)

The common practice is to place the luminaire as indicated by the manufacturer's installation rules in a wind tunnel.

The wind tunnel should be as such the surface S of the luminaire representing 5 % maximum of the cross-sectional area of the wind tunnel.

The wind speed used in the measurement should represent as far as possible the reality, according to 3.6.3.1. A speed of 25 m/s should be considered as a minimum.

After the measurement, no visible failure must impain the safety of the luminaire.

Add, after annex A, the following new bibliography: Bibliography ISO 4354:1997, Wind actions on structures