

# Luminaires —

Part 102: Particular requirements

Section 102.1 Specification for fixed  
general purpose luminaires

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This European Standard EN 60 598-2-1:1989 has the status of a  
British Standard

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## Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the National Committees of the following countries.

Austria	Italy
Belgium	Luxemburg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

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## National foreword

This Section of BS 4533 has been prepared under the direction of the Electrical Illumination Standards Policy Committee and is the English language version of EN 60 598-2-1 “Luminaires — Part 2: Particular requirements Section one — Fixed general purpose luminaires”, published by the European Committee for Electrotechnical Standardization (CENELEC). It was adopted by that organization from IEC Publication 598-2-1 (1979) edition 1 and Amendment No 1 (1987), which is identical with the European Standard. This Section of BS 4533 supersedes BS 4533-102.1:1981 which is withdrawn.

The foreword and preface of IEC Publication 598-2-1 (1979) edition 1 and the preface of Amendment No 1 (1987) which do not form part of the text of EN 60 598-2-1 have been quoted in national appendix NA. Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. National appendices are designated “informative”.

In 1.1 and 1.2 where the words “section of Part 2 of IEC Publication 598” and “section of Part 2” appear they should be read as “Section of BS 4533”. In the same clauses where “Part 1” appears this should be read as “Part 101”. Where the words “Publication 598-1” appear, they should be read as “BS 4533-101”.

**Cross-references.** Details of other international publications quoted in this British Standard are given in annex ZA. Where there are British Standard corresponding to these international standards the relationships are given in national appendix NB.

**Product certification.** Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier’s quality systems against the appropriate Part of BS 5750.

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A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 6 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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English version

Luminaires

Part 2: Particular requirements  
Section one — Fixed general purpose luminaires

[IEC 598-2-1 (1979) ed 1 + Amdt 1 (1987)]

Luminaires

Deuxième partie: Règles particulières

Section un — Luminaires fixes à usage général  
[CEI 598-2-1 (1979) ed 1 + Amdt 1 (1987)]

Leuchten

Teil 2: Besondere Anforderungen

Hauptabschnitt eins — Ortsfeste Leuchten für  
allgemeine Zwecke  
[IEC 598-2-1 (1979) Ausg. 1 + Amdt 1 (1987)]

This European Standard was ratified by CENELEC on 13 September 1988. CENELEC members are bound to comply with the requirements of the 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 CENELEC Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French and German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to CENELEC 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, Luxemburg, 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 Bréderode 2, B-1000 Brussels

**Brief history**

The CENELEC Questionnaire Procedure performed for finding out whether or not IEC 598-2-1 (first edition, 1979) as amended by Amendment No. 1 (1987) could be accepted without textural changes, has shown that no common modifications were necessary for the acceptance as European Standard (EN). The Reference Document was submitted to the CENELEC members for formal vote and acceptance by CENELEC.

**Technical text**

The text of the International Standard IEC 598-2-1 (first edition, 1979) as amended by Amendment No. 1 (1987) was approved by CENELEC on 1988-09-13 as a European Standard.

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

Annexes designated "informative" are given only for information.

In this European Standard, Annex ZA is normative.

The following dates were fixed:

- date of announcement (doa) 1989-04-01
- date of latest publication (dop) 1989-10-01
- date of withdrawal of conflicting national standard (dow) 1990-04-01

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## 1.1 Scope

This section of Part 2 of IEC Publication 598 specifies requirements for fixed general purpose luminaires 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.

## 1.2 General test requirements

The provisions of Section Zero of Publication 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.

## 1.3 Definitions

For the purposes of this section, the definitions of Section One of Publication 598-1 apply.

## 1.4 Classification of luminaires

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

## 1.5 Marking

The provisions of Section Three of Publication 598-1 apply.

## 1.6 Construction

The provisions of Section Four of Publication 598-1 apply.

## 1.7 Creepage distances and clearances

The provisions of Section Eleven of Publication 598-1 apply.

## 1.8 Provision for earthing

The provisions of Section Seven of Publication 598-1 apply.

## 1.9 Terminals

The provisions of Sections Fourteen and Fifteen of Publication 598-1 apply.

## 1.10 External and internal wiring

The provisions of Section Five of Publication 598-1 apply.

## 1.11 Protection against electric shock

The provisions of Section Eight of Publication 598-1 apply.

## 1.12 Endurance tests and thermal tests

The provisions of Section Twelve of Publication 598-1 apply. Luminaires with an IP classification greater than IP20 shall be subjected to the relevant tests of Clauses 12.4, 12.5 and 12.6 of Section Twelve of Publication 598-1 after the test(s) of Clause 9.2 but before the test(s) of Clause 9.3 of Section Nine of Publication 598-1 specified in Clause 1.13 of this Section of Publication 598-2.

## 1.13 Resistance to dust and moisture

The provisions of Section Nine of Publication 598-1 apply. For luminaires with an IP classification greater than IP20 the order of the tests specified in Section Nine of Publication 598-1 shall be as specified in Clause 1.12 of this Section of Publication 598-2.

## 1.14 Insulation resistance and electric strength

The provisions of Section Ten of Publication 598-1 apply.

## 1.15 Resistance to heat, fire and tracking

The provisions of Section Thirteen of Publication 598-1 apply.

**Annex ZA (normative)**

**Other international publications quoted in this standard**

When the international publication has been modified by CENELEC common modifications (modified by CENELEC common modifications) the relevant EN/HD applies.

IEC Publications	EN/HD	Date of issue of EN/HD
598-1, mod Luminaires Part 1: General requirements and tests	EN 60 598-1	Existing; latest edition

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**National appendix NA (informative)****Deletions from IEC Publication 598-2-1 (1979) edition 1 and Amendment No 1 (1987)****Foreword of IEC Publication 598-2-1 (1979) edition 1**

- 1) 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.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

**Preface of IEC Publication 598-2-1 (1979) edition 1**

This publication has been prepared by Sub-Committee 34D, Luminaires, of IEC Technical Committee No. 34, Lamps and Related Equipment. It is one section of the multi-section Publication 598 which is intended to replace IEC Publication 162, Luminaires for Tubular Fluorescent Lamps, and which introduces requirements for other luminaires.

A first draft was discussed at the meeting held in The Hague in 1975. As a result of this meeting, a draft, Document 34D(Central Office)36, was submitted to the National Committees for approval under the Six Months' Rule in July 1976.

The following countries voted explicitly in favour of publication:

Austria	Netherlands
Belgium	Norway
Brazil	Portugal
Denmark	South Africa (Republic of)
Egypt	Spain
Finland	Sweden
France	Switzerland
Germany	Turkey
Hungary	Union of Soviet
Israel	Socialist Republics
Italy	United Kingdom
Japan	United States of America

This publication should be read in conjunction with IEC Publication 598-1: Luminaires, Part 1: General Requirements and Tests.

**Preface of Amendment No 1 (1987) to IEC Publication 598-2-1 (1979) edition 1**

This amendment has been prepared by Sub-Committee 34D: Luminaires, of IEC Technical Committee No. 34: Lamps and Related Equipment.

The text of this amendment is based upon the following documents:

Six Months' Rule	Report on Voting
34D(C0) 111	34D(C0) 128

Full information on the voting for the approval of this amendment can be found in the Voting Report indicated in the above table.

### National appendix NB (informative)

The British Standard corresponding to the international standard referred to in EN 60 598-2-1 is as follows:

International standard	British Standard
	BS 4533 Luminaires
IEC 598-1 (mod)	Part 101: 1990 Specification for general requirements and tests
EN 60 598-1	(Identical)

### National appendix NC (informative)

The United Kingdom participation in the preparation of this European Standard was entrusted by the Electrical Illumination Standards Policy Committee (LGL/-) to Technical Committee LGL/3, upon which the following bodies were represented:

Association of County Councils

Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd.)

British Lighting Association for the Preparation of Standards (Britlaps)

Chartered Institution of Building Services Engineers

Consumer Standards Advisory Committee of BSI

Decorative Lighting Association

Department of Trade and Industry (Consumer Safety Unit, CS Division)

Electrical Contractors' Association

Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)

Electricity Supply Industry in England and Wales

Health and Safety Executive

Institution of Lighting Engineers

Lighting Industry Federation Ltd.

Society of Glass Technology

The following bodies were also represented through subcommittees and panels:

Association of Consulting Scientists

Chief and Assistant Chief Fire Officers' Association

Department of Health and Social Security

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