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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60598-2-13

August 2006

ICS 29.140.40

Incorporates Corrigendum December 2006

English version

Luminaire
Part 2-13: Particular requirements -
Ground recessed luminaire
(IEC 60598-2-13:2006)

Luminaire
Partie 2-13: Règles particulières -
Luminaire encastrés dans le sol
(CEI 60598-2-13:2006)

Leuchten
Teil 2-13: Besondere Anforderungen -
Bodeneinbauleuchten
(IEC 60598-2-13:2006)

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This European Standard was approved by CENELEC on 2006-07-01. 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, 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/856/FDIS, future edition 1 of IEC 60598-2-13, 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 EN 60598-2-13 on 2006-07-01.

This European Standard should be used in conjunction with the latest edition of and any amendments to EN 60598-1: *Luminaires – Part 1: General requirements and tests*.

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) 2007-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-07-01

The contents of the corrigendum of December 2006 have been included in this copy.

Endorsement notice

The text of the International Standard IEC 60598-2-13:2006 was approved by CENELEC as a European Standard without any modification.

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60598-2-13

Première édition
First edition
2006-06

Luminaire –

Partie 2-13:

Règles particulières –

Luminaire encastré dans le sol

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**Particular requirements –
Ground recessed luminaire**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRES –

**Part 2-13: Particular requirements –
Ground recessed luminaires**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60598-2-13 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34:Lamps and related equipment.

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

FDIS	Report on voting
34D/856/FDIS	34D/860/RVD

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 has been drafted in accordance with the ISO/IEC Directives, Part 2.

This publication is intended to be read in conjunction with IEC 60598-1: *Luminaires – Part 1: General requirements and tests*. It was established on the basis of the sixth edition of that standard.

Part 2 of IEC 60598 consists of the following parts¹ under the general title *Luminaires – Part 2: Particular requirements*:

- Part 2-1: Fixed general purpose luminaires
- Part 2-2: Recessed luminaires
- Part 2-3: Luminaires for road and street lighting
- Part 2-4: Portable general purpose luminaires
- Part 2-5: Floodlights
- Part 2-6: Luminaires with built-in transformers for filament lamps
- Part 2-7: Portable luminaires for garden use
- Part 2-8: Handlamps
- Part 2-9: Photo and film luminaires (non-professional)
- Part 2-10: Portable luminaires for children
- Part 2-11: Aquarium luminaires
- Part 2-13: Ground recessed luminaires
- Part 2-17: Luminaires for stage lighting, television and film studios (outdoor and indoor)
- Part 2-18: Luminaires for swimming pools and similar applications
- Part 2-19: Air-handling luminaires (safety requirements)
- Part 2-20: Lighting chains
- Part 2-22: Luminaires for emergency lighting
- Part 2-23: Extra low voltage lighting systems for filament lamps
- Part 2-24: Luminaires with limited surface temperatures
- Part 2-25: Luminaires for use in clinical areas of hospitals and health care buildings

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

¹ Other parts are under consideration.

LUMINAIRES –

Part 2-13: Particular requirements – Ground recessed luminaires

13.1 Scope

This Part 2 of IEC 60598 specifies requirements for ground recessed luminaires incorporating electric light sources for operation from supply voltages up to 1 000 V, for indoor or outdoor use, e.g. in gardens, yards, carriageways, parking lots, cycleways, footways, pedestrian areas, swimming pools areas outside zones for SELV, nurseries and similar applications.

This part does not cover ground recessed luminaires for motorised roads and for airfields already specified in IEC 61827².

13.1.1 Normative references

The references of Section 0 of IEC 60598-1 apply.

13.2 General test requirements

The provisions of Section 0 of IEC 60598-1 apply.

13.3 Definitions

The definitions of Section 1 of IEC 60598-1 apply together with the following:

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13.3.1

ground recessed luminaire

luminaire suitable to be installed in the ground, having the supply connections and electrical components located below ground level

13.3.2

rated maximum surface temperature

T

the highest temperature on the accessible outer surface, under normal operating conditions according to 13.12

13.4 Classification

Luminaires shall be classified in accordance with Section 2 of IEC 60598-1.

13.5 Marking

The provisions of Section 3 of IEC 60598-1 apply together with the requirements of 13.5.1 to 13.5.3

13.5.1 Rated load in N, according to 13.6.1 (in the manufacturer's instructions).

² IEC 61827: *Electrical installation and beaconing of aerodromes – Characteristics of inset and elevated luminaires used in aerodromes.*