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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61199/A1**

February 2013

ICS 29.140.30

English version

**Single-capped fluorescent lamps -  
Safety specifications**  
(IEC 61199:2011/A1:2012)

Lampes à fluorescence à culot unique -  
Spécifications de sécurité  
(CEI 61199:2011/A1:2012)

Einseitig gesockelte Leuchtstofflampen -  
Sicherheitsanforderungen  
(IEC 61199:2011/A1:2012)

This amendment A1 modifies the European Standard EN 61199:2011; it was approved by CENELEC on 2012-11-01. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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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 CEN-CENELEC Management Centre 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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 34A/1538/CDV, future edition 1 of IEC 61199:2011/A1, prepared by SC 34A, "Lamps", of IEC TC 34, "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61199:2011/A1:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-08-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-11-01

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

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**Endorsement notice**

The text of the International Standard IEC 61199:2011/A1:2012 was approved by CENELEC as a European Standard without any modification.

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IEC 61199

Edition 3.0 2012-09

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

Single-capped fluorescent lamps – Safety specifications

Lampes à fluorescence à culot unique – Spécifications de sécurité

[SIST EN 61199:2011/A1:2013](https://standards.iteh.ai/catalog/standards/sist/dcaac920-743e-444a-9cf0-914ddfa868ad/sist-en-61199-2011-a1-2013)

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

D

ICS 29.140.30

ISBN 978-2-83220-386-6

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## FOREWORD

This amendment has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

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

CDV	Report on voting
34A/1538/CDV	34A/1578/RVC

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 this amendment and the base publication will remain unchanged until the stability 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.

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SIST EN 61199:2011/A1:2013

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914ddfa868ad/sist-en-61199-2011-a1-2013

## INTRODUCTION TO THE AMENDMENT

The standards IEC 62471, and IEC/TR 62471-2, contain horizontal requirements available that need to be introduced into product standards, e.g. to IEC 61199.

In IEC 61199 the column names in Table F.1 are a bit misleading. These names are:

- “Pre-heat current safety limit (A) (abnormal operation)” in column 2,
- “Discharge current safety limit (A) (normal operation)” in column 3 and
- “SoS safety limit (A<sup>2</sup>) (normal operation)” in column 4.

Although the additions in brackets of “abnormal operation” and “normal operation” indicate that the corresponding data are dedicated to magnetic ballasts (abnormal operation) and electronic ballasts (normal operation) this is nowhere really stated in IEC 61199.

In fact the “Pre-heat current safety limit” in column 2 of Table F.1 in IEC 61199 is only valid for magnetic operation with internal or external starters. With electronic control gears this limit might be and will be exceeded. It is no safety risk for electronic control gears because there is already a requirement for electronic control gears to avoid any overheating of the base by the pre-heat current in case a lamp does not start (Annex H of IEC 61199). In case of magnetic operation with internal or external starters it might happen that the starter sticks at end of lamp life and the preheat current will be supplied continuously. To avoid a safety risk in this case, with magnetic ballasts the “Pre-heat current safety limit” needs to be observed.

## INTRODUCTION

*Add the following new paragraphs at the end of the introduction:*

The standards IEC 62471, and IEC/TR 62471-2, contain horizontal requirements available that need to be introduced into product standards, e.g. to IEC 61199.

The horizontal requirements are transformed into requirements for single-capped fluorescent lamps.

The lamps within the scope of this standard are general lighting service (GLS) lamps according to the definition 3.11 of IEC 62471:2006. "...lamps intended for lighting spaces that are typically occupied or viewed by people..."

According to Clause 6 of IEC 62471:2006, radiation of GLS lamps is measured at a distance equivalent to 500 lx.

Measured at the 500 lx distance, GLS lamps will not exceed risk group 1 for blue light hazard and risk group 0 for IR radiation. This combination of risk group and hazard does not require marking (Table 1 of IEC/TR 62471-2:2009).

Hazards from UV radiation of GLS lamps are sufficiently covered in 4.11 of IEC 61199,.

Hence, IEC 62471 does not require any additional marking for GLS lamps.

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### 1 Scope

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*Add the following new paragraphs after the second paragraph before the note:*

This part of the standard covers photobiological safety according to IEC 62471 and IEC/TR 62471-2.

Blue light and infrared hazards are below the level which requires marking.

### Table F.1 – Maximum allowable currents and rated lamp power

*Replace the first header row of the table by the following header row:*

Cap/holder (designation key)	Pre-heat current safety limit A  Operation with internal/external starter	Discharge current safety limit A  starterless and/or electronic operation	SoS safety limit  A <sup>2</sup>  starterless and/or electronic operation	Maximum rated lamp power W  starterless and/or electronic operation (interchangeability)

## Bibliography

*Add the following new entry:*

IEC/TR 62471-2, *Photobiological safety of lamps and lamp systems – Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety*

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