



SLOVENSKI STANDARD
SIST EN 55015:1997/A2:2000

01-april-2000

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:1996/A2:1998)

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

Grenzwerte und Meßverfahren für Funkstörungen von elektrischen Beleuchtungseinrichtungen und ähnlichen Elektrogeräten

Limites et méthodes de mesure des perturbations radioélectriques produites par les appareils électriques d'éclairage et les appareils analogues

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Ta slovenski standard je istoveten z: EN 55015:1996/A2:1999

ICS:

33.100.10 Emisija Emission

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EUROPEAN STANDARD
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EN 55015/A2

January 1999

ICS 33.100.10

Descriptors: Radio disturbance, method of measurement, lighting equipment, luminaire, limit, evaluation, statistics

English version

**Limits and methods of measurement of radio disturbance
characteristics of electrical lighting and similar equipment
(CISPR 15:1996/A2:1998)**

Limites et méthodes de mesure des
perturbations radioélectriques produites
par les appareils électriques d'éclairage
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This amendment A2 modifies the European Standard EN 55015:1996; it was approved by CENELEC on 1999-01-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, 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

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EN 55015:1996/A2:1999

Foreword

The text of document CISPR/F/254/FDIS, future amendment 2 to CISPR 15:1996, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 55015:1996 on 1999-01-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1999-10-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2001-10-01

Endorsement notice

The text of amendment 2:1998 to the International Standard CISPR 15:1996 was approved by CENELEC as an amendment to the European Standard without any modification.

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COMMISSION
ÉLECTROTECHNIQUE
INTERNATIONALE

CISPR
15

1996

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

AMENDEMENT 2
AMENDMENT 2
1998-12

COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

Amendement 2

**Limites et méthodes de mesure des perturbations
radioélectriques produites par les appareils
électriques d'éclairage et les appareils analogues**

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Amendment 2

[SIST EN 55015:1997/A2:2000](https://standards.iteh.ai/catalog/standards/sist/en-55015-1997/a2-2000)

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**Limits and methods of measurement of radio
disturbance characteristics of electrical lighting
and similar equipment**

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Commission Electrotechnique Internationale
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FOREWORD

This amendment has been prepared by CISPR subcommittee F: Interference relating to household appliances, tools, lighting equipment and similar apparatus.

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

FDIS	Report on voting
CISPR/F/254/FDIS	CISPR/F/273/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.

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Add, after subclause 5.9, the following new subclause 5.10:

5.10 Self-contained emergency lighting luminaires

5.10.1 General

Luminaires designed for the purpose of providing emergency lighting in the event of disruption of the mains supply, shall be measured in both the mains on mode and emergency mode (mains off) of operation as detailed in 5.10.2 and 5.10.3.

- Mains on mode: the state of a self-contained emergency luminaire which is ready to operate while the public network supply is on. In the case of a supply failure, the luminaire automatically changes over to the emergency mode.
- Emergency mode: the state of a self-contained emergency luminaire which provides lighting when energized by its internal power source, the public network supply having failed (mains off).

NOTE – The limit and the measurement method of the field strength for the flashing type emergency lighting luminaire utilizing xenon lamps are under consideration.

5.10.2 Measurement in the mains on mode, i.e. operating condition prior to the disruption of the mains supply

The luminaire shall comply with the mains terminal disturbance voltage limits given in table 2a. Where the luminaire supplies the lamp(s) with a current having an operation frequency in excess of 100 Hz, it shall comply with the field strength limits given in table 3. Where the light output of the luminaire is regulated by an external device, the disturbance voltage at the control terminal shall not exceed the limits given in table 2b.

5.10.3 Measurement in emergency mode, i.e. operating condition after disruption of the mains supply

Luminaires which supply the lamp(s) with a current having an operation frequency in excess of 100 Hz while in the emergency mode, shall comply with the field strength limits given in table 3.

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Add, after subclause 8.7, the following new subclause 8.8:

8.8 Self-contained emergency lighting luminaires

The instructions of 8.1 and 8.2 apply with the following additions:

- In the case of a self-contained emergency lighting luminaire, where in the mains on mode the light may be on or off, while the batteries are being charged, measurements shall be performed with the lamp(s) energized.
- In the case of a self-contained luminaire which comprises more than one unit, such as a luminaire with separate control gear, the units shall be mounted on a piece of insulating material $12 \text{ mm} \pm 2 \text{ mm}$ thick, with the interconnecting cables of the maximum length specified by the manufacturer. This arrangement shall be measured as a luminaire.
- For luminaires incorporating more than one lamp, the luminaire shall be tested in the following manner. Only the lamps which are designed to be operated when the luminaire is in the mains on mode shall be energized when the luminaire is tested in that mode. Only the lamps which are designed to be operated when the luminaire is in the emergency mode shall be energized when the luminaire is tested in that mode.

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Renumber subclause 9.7 as 9.8 and insert, after subclause 9.6, the following new subclause 9.7:

9.7 Self-contained emergency lighting luminaires

For self-contained emergency lighting luminaires, the relevant conditions given in 8.8 apply. During the emergency mode of operation the following additions apply.

- For luminaires which incorporate an internal power source, measurements shall be conducted with the power source in a fully charged state.