



**SLOVENSKI STANDARD**  
**SIST EN 60570:1999/A11:2000**  
**01-april-2000**

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**Electrical supply track systems for luminaires - Amendment A11**

Electrical supply track systems for luminaires

Elektrische Stromschiensysteme für Leuchten

Systèmes d'alimentation électrique par rail pour luminaires

**Ta slovenski standard je istoveten z: EN 60570:1996/A11:1998**

[SIST EN 60570:1999/A11:2000](https://standards.iteh.ai/catalog/standards/sist/af732a31-699c-411d-a85f-99bffb4e4890/sist-en-60570-1999-a11-2000)

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**ICS:**

29.140.50	Instalacijski sistemi za razsvetljavo	Lighting installation systems
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**SIST EN 60570:1999/A11:2000**      **en**

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EUROPEAN STANDARD

**EN 60570/A11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1998

ICS 29.060.10; 29.140.40

Descriptors: Luminaire, track systems, tests, supply connection, electrical grounding, thermal endurance, operating temperatures, polarity

English version

**Electrical supply track systems for luminaires**

Systèmes d'alimentation électrique  
par rail pour luminaires

Elektrische Stromschienensysteme  
für Leuchten

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This amendment A11 modifies the European Standard EN 60570:1996; it was approved by CENELEC on 1998-10-01. 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

### Foreword

This amendment was prepared by the Technical Committee CENELEC TC 34Z, Luminaires and associated equipment.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A11 to EN 60570:1996 on 1998-10-01.

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) 1999-10-01

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## 5 Marking

### 5.6 Add the following items:

d) Instructions concerning suitable means for overload and short circuit protection of the SELV circuit.

NOTE: The means of protection shall meet the requirements of IEC 60364, Electrical installation of buildings - Section 715: Extra-low voltage lighting installations.

e) The minimum cross sectional area and maximum length of the supply cable between transformer and track supply connector.

## 11 Thermal endurance and operating temperatures

### 11.3 Replace the existing text by the following:

11.3 Thermal endurance of track shall be checked by the following tests:

11.3.1 A 1,2 m length of track is mounted as in normal use, according to the manufacturer's installation instructions, in a heating cabinet which is maintained for 168 h at a temperature which is 10 °C in excess of the manufacturer's stated maximum track temperature under normal operating condition, with a minimum of 80 °C or the  $t_a$  of the track + 55 °C, whichever is the greater.

After the test, the track shall show no visible signs of deterioration and any shrinkage of the insulating liner shall be such that the track still complies with the requirements of clause 12 (steel probe, test finger, etc.) and the track shall comply with the requirements of 14.1 (insulation resistance test).

11.3.2 For Class III track a typical luminaire in accordance with 0.4.2 of EN 60598-1 and chosen to represent the most onerous situation designed to be used with the track shall be mounted on it in the most unfavourable position of normal use and electrically connected to it. For the supply cable the most unfavourable position shall be taken with the cable bent sharply at the inlet opening as far as possible as the design permits. The track shall be further electrically loaded so as to pass a total current, including the current to the luminaire, equal to its rated current.

The track system is operated at its rated voltage and the  $t_a$  of the track plus 20 °C and the test is made in accordance with 12.3 of EN 60598-1.

Following the test in addition to complying with 12.3 of EN 60598-1 the track supply connector and couplers (if any) shall be loaded with 1.5 times the rated current of the track system. The voltage drop across each terminal or contact shall not exceed 22,5 mV.

## 16 Resistance to heat, fire and tracking

### 16.2 Replace the existing item a) by the following:

a) parts of insulating material retaining current carrying parts in position shall be tested at a temperature equal to that of the track plus 25 °C with a minimum temperature of 125 °C.

Add a new clause 17:

## 17 Terminals and connections for external wiring

For Class III track the provisions of subclauses 15.9.1 and 15.9.2 of EN 60598-1:1997 shall apply with the following modifications:

### 15.9.1.1 Replace the 1st paragraph by the following:

*For all types of terminals (or connections), the test according to 15.9.1.3 is made with ten solid copper non-insulated conductors or with conductors which are delivered by the manufacturer with the track system.*

### 15.9.1.3 Add at the end of the 1st paragraph:

*The voltage drop is measured across each terminal and across each connection to the track conductor.*

### 15.9.2.3 Replace the existing text by the following:

*Terminals (or connections) with rated current up to and including 6 A are then subjected to an ageing test, without current of 25 cycles duration, each cycle comprising 30 min at the upper cycle temperature of  $T \pm 5$  °C or 80 °C  $\pm 5$  °C, whichever is the higher, followed by a cooling down period to a temperature between 15 °C and 30 °C. Terminals (or connections) with rated current exceeding 6 A are subjected to an ageing test of 100 such cycles. For the supply cable the most unfavourable position shall be taken with the cable bent sharply at the inlet opening as far as possible as the design permits.*

NOTE: The temperature  $T$  is the marked maximum rated temperature for  $T$ -marked components, such as lampholders.

### 15.9.2.4 Replace the 1st line by the following:

*The voltage drop is measured across each terminal and across each connection to the track conductor.*