



# SLOVENSKI STANDARD

## SIST EN 61549:2004

01-januar-2004

Nadomešča:

SIST EN 61549:1999

SIST EN 61549:1999/A1:1999

SIST EN 61549:1999/A2:2002

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### Različne žarnice in sijalke (IEC 61549:2003)

Miscellaneous lamps (IEC 61549:2003)

Sonderlampen (IEC 61549:2003)

Lampes diverses (CEI 61549:2003)

[SIST EN 61549:2004](#)

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[5905a13b4e4a/sist-en-61549-2004](https://standards.iteh.ai/catalog/standards/sist/f83e10e0-862d-4247-98ab-5905a13b4e4a/sist-en-61549-2004)

Ta slovenski standard je istoveten z: **EN 61549:2003**

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### ICS:

29.140.20 Žarnice z žarilno nitko Incandescent lamps

29.140.30 Fluorescenčne sijalke. Sijalke Fluorescent lamps.  
Discharge lamps

**SIST EN 61549:2004**

**en**

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EUROPEAN STANDARD

**EN 61549**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2003

ICS 29.140.20; 29.140.30

Supersedes EN 61549:1996 + A1:1997 + A2:2001

English version

## **Miscellaneous lamps (IEC 61549:2003)**

Lampes diverses  
(CEI 61549:2003)

Sonderlampen  
(IEC 61549:2003)

This European Standard was approved by CENELEC on 2003-06-01. 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.

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# **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 34A/1027/FDIS, future edition 2 of IEC 61549, prepared by SC 34A, Lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61549 on 2003-06-01.

This European Standard supersedes EN 61549:1996 + A1:1997 + A2:2001.

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) 2004-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-06-01

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## Endorsement notice

The text of the International Standard IEC 61549:2003 was approved by CENELEC as a European Standard without any modification.

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC

61549

Deuxième édition  
Second edition  
2003-05

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Lampes diverses

Miscellaneous lamps

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

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For price, see current catalogue*

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MISCELLANEOUS LAMPS

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61549 has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

This second edition cancels and replaces the first edition published in 1996, and its amendments 1 (1997) and 2 (1999). It constitutes a technical revision.

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

FDIS	Report on voting
34A/1027/FDIS	34A/1033/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.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

## MISCELLANEOUS LAMPS

### 1 Scope

This International Standard specifies lamps, or information relevant to lamps, not given elsewhere in existing IEC lamp standards.

It covers both safety and performance aspects.

NOTE For reasons of flexibility the information in this loose-leaf publication is given in data sheet format.

### 2 General requirement

The lamps specified in this standard shall comply with the relevant safety standard, if available.

### 3 Data sheets

#### 3.1 General principle of numbering of data sheets

The first number represents the number of this standard: 61549, followed by the letters "IEC".

The second number represents the data sheet number.

The third number represents the edition of the page of the data sheet. In cases where a data sheet has more than one page it is possible for the pages to have different edition numbers with the data sheet number remaining the same.

#### 3.2 List of data sheets

Sheet number	Subject
61549-IEC-110	Double-capped metal halide lamps (Fc2 caps) - Dimensions
61549-IEC-120	Double-capped incandescent lamps (S14s caps) - Dimensions
61549-IEC-130	Double-capped fluorescent lamps (Fa8 caps) - Dimensions
61549-IEC-140	U-shaped double-capped fluorescent lamps (2G13-92 caps) - Dimensions
61549-IEC-310	Germicidal lamps - Symbol
61549-IEC-320	Radiation hazard - Symbol
61549-IEC-330	Lamp operating positions - Symbols
61549-IEC-510	Tungsten filament ELV lamps - Marking
61549-IEC-520	Lamps for lighting chains - Filament position
61549-IEC-710	Xenon flash lamps with ignition transformer
61549-IEC-720	Metal halide lamps for film and television recording

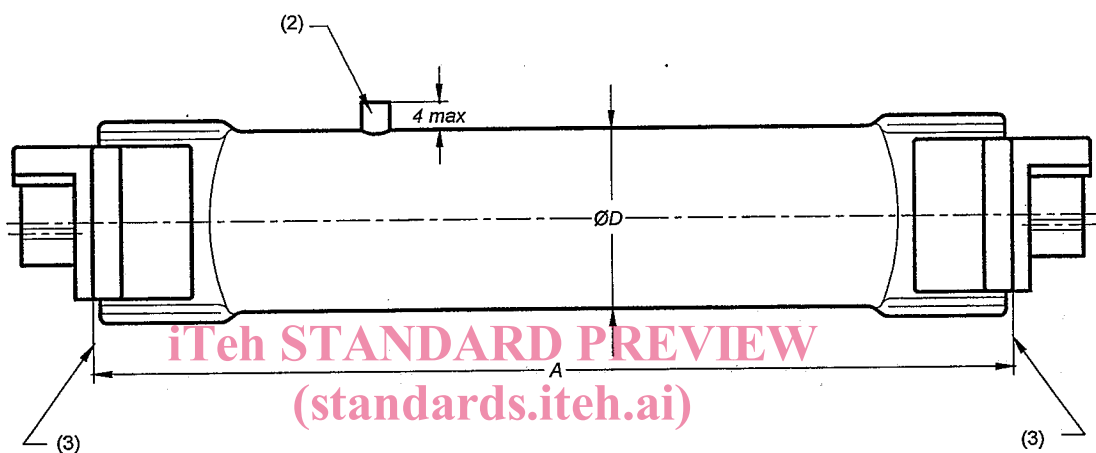
## DOUBLE-CAPPED METAL HALIDE LAMPS

### Dimensions

Dimensions in millimetres

#### Caps Fc2 (1)

This drawing gives information for specifying the mounting distance between the two Fc2 lampholders for those double-capped metal halide lamps that are not standardized in IEC 61167.



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Nominal wattage W	$A_{min}$	$A_{max}$	$D_{max}$
400	182	183	32,5
1 000	233	234	36,0

(1) See cap sheet 7004-114 of IEC 60061-1 and for holder dimensions and calculation of mounting distances, see sheet 7005-114 of IEC 60061-2.

(2) The position of the exhaust tip is not specified.

(3) Reference planes of the caps.



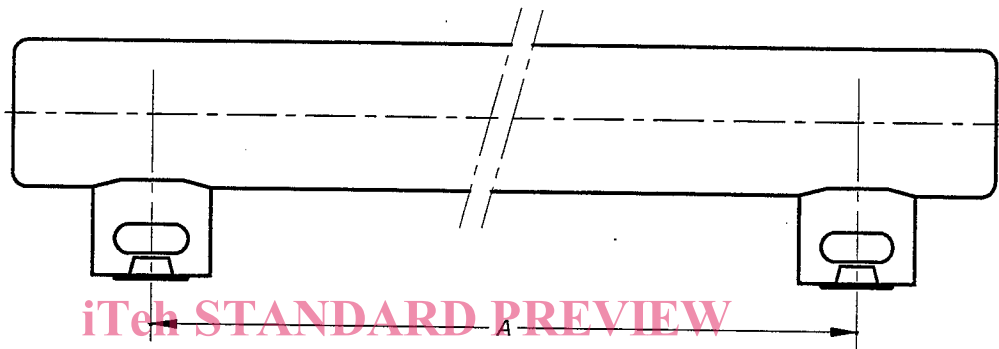
# DOUBLE-CAPPED INCANDESCENT LAMPS

## Dimensions

Dimensions in millimetres

### Caps S14s (1)

This drawing gives information for specifying the mounting distance between the two S14s lampholders for double-capped incandescent lamps.



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Nominal mounting distance A	Minimum (2)	Maximum
241	240	242
441	440	442
941	940	942

Without using undue force, the two caps on the finished lamp shall pass simultaneously through a slot, 14,5 mm - 0,02 mm (3) in width and with a minimum length of  $(A + 26,1)$  mm (4).

(1) See cap sheet 7004-112 of IEC 60061-1 and, for holder dimensions, see sheet 7005-112 of IEC 60061-2.

(2) In France the minimum mounting distances are 239 mm, 439 mm and 939 mm respectively.

(3) The tolerance applies only to the two end areas of the slot, having a length of 26,1 mm, the centres of which are situated at nominal mounting distance A.

(4) The value of 26,1 mm is equal to cap dimension  $A_{1max}$ .

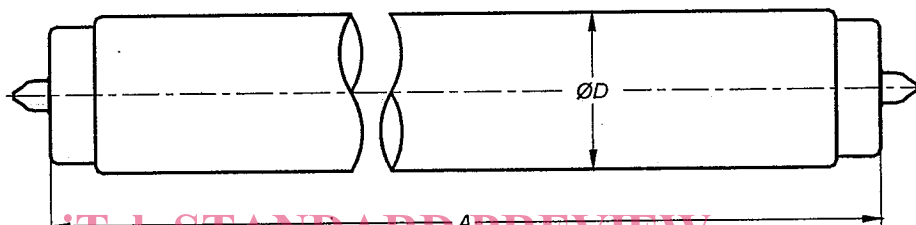
## DOUBLE-CAPPED FLUORESCENT LAMPS

## Dimensions

Dimensions in millimetres

## Caps Fa8 (1)

This drawing gives information for specifying the mounting distance between the two Fa8 lampholders for those double-capped fluorescent lamps that are not standardized in IEC 60081.



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Nominal lamp dimensions	$A_{\max}$	$D_{\max}$
26 × 2 400	2 369,8	27,8
26 × 1 800	1 760,2	27,8
19 × 1 600	1 557,0	20,6
19 × 1 050	998,2	20,6

(1) See cap sheet 7004-57 of IEC 60061-1 and, for holder dimensions and calculation of mounting distances, see sheet 7005-58 of IEC 60061-2.

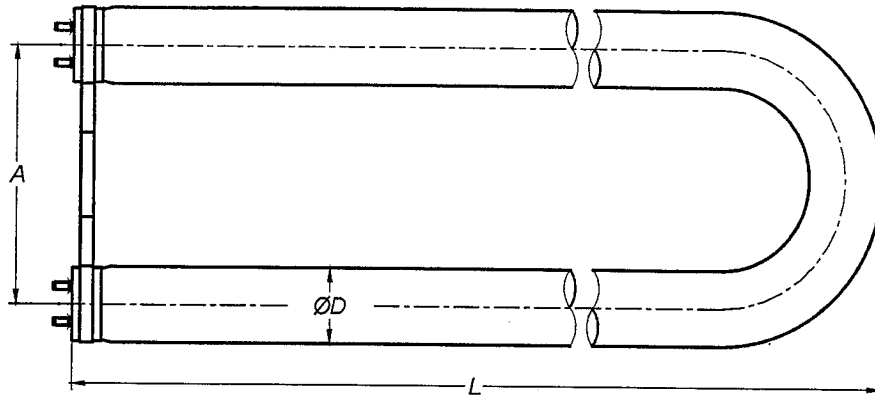
## U-SHAPED DOUBLE-CAPPED FLUORESCENT LAMPS

### Dimensions

Dimensions in millimetres

Caps 2G13-92 (1)

This drawing gives information regarding the dimensions of U-shaped double-capped fluorescent lamps that are not standardized in IEC 60081.



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Table 1 – Lamps with 26 mm tube diameter  
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Nominal wattage	Dimensions				
	A	D		L	
W	Nom. (2)	Min.	Max.	Min.	Max.
18	92	23	27	300	310
36				560	570
36				597	607
58				560	570
58				750	765

Table 2 – Lamps with 38 mm tube diameter (3)

Nominal wattage	Dimensions				
	A	D		L	
W	Nom. (2)	Min.	Max.	Min.	Max.
20	92	35	39	300	310
40 (4)				597	607
65				560	570
65				750	765

(1) See cap sheet 7004-33 of IEC 60061-1.

(2) For tolerances see gauge sheet 7006-33 of IEC 60061-3.

(3) Lamps with 38 mm tube diameter are not recommended for new luminaire designs.

(4) A different 40 W lamp is used in North America with  $L_{\min} = 562,1$  mm and  $L_{\max} = 572,3$  mm.