SLOVENSKI STANDARD
SIST EN 60630:2001

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Maximum lamp outlines for incandescent lamps

Maximum lamp outlines for incandescent lamps

Maximale Lampen-Hüllkurven für Glühlampen

Encombrement maximal des lampes à incandescence

Ta slovenski standard je istoveten z: **EN 60630:1998**

ICS:

29.140.20 Žarnice z žarilno nitko Incandescent lamps

SIST EN 60630:2001 **en,fr**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60630

October 1998

ICS 29.140.20

Descriptors: Lighting equipment, incandescent lamps, dimensions, overall dimensions, maximum values

English version

Maximum lamp outlines for incandescent lamps
(IEC 60630:1994 + A1:1997 + A2:1998, modified)

Encombrement maximal des lampes à incandescence
(CEI 60630:1994 + A1:1997 + A2:1998, modifiée)

Maximale Lampen-Hüllkurven für Glühlampen
(IEC 60630:1994 + A1:1997 + A2:1998, modifiziert)

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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 the International Standard IEC 60630:1994 and its amendments 1:1997 and 2:1998, prepared by SC 34A, Lamps, of IEC TC 34, Lamps and related equipment, together with common modifications prepared by Reporting Secretariat SR 34A, was submitted to the formal vote and was approved by CENELEC as EN 60630 on 1998-10-01.

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) 1999-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1999-10-01

Endorsement notice

The text of the International Standard IEC 60630:1994 and its amendments 1:1997 and 2:1998 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Delete the following throughout the text:

Lamps with cap E17, E26 and E39.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60061-1 + supplements (mod)	1969	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps	EN 60061-1 + amendments	1993
IEC 60061-3 + supplements (mod)	1969	Part 3: Gauges	EN 60061-3 + amendments	1993
IEC 60064 (mod)	1993	Tungsten filament lamps for domestic and similar general lighting purposes Performance requirements	EN 60064	1995
IEC 60357 (mod)	1982	Tungsten halogen lamps (non-vehicle)	EN 60357[1)]	1988
IEC 60432-1 (mod)	1993	Safety specifications for incandescent lamps Part 1: Tungsten filament lamps for domestic and similar general lighting purposes	EN 60432-1 + corr. April	1994 1995
IEC 60432-2 (mod)	1994	Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes	EN 60432-2 + corr. March	1994 1995
IEC 60887	1988	Glass bulb designation system for lamps	-	-
IEC 61126	1992	Procedure for use in the preparation of maximum lamp outlines	-	-

1) EN 60357 includes A1:1984 to IEC 60357.

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630

Deuxième édition
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Encombrement maximal des lampes à incandescence

Maximum lamp outlines for incandescent lamps

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MAXIMUM LAMP OUTLINES FOR INCANDESCENT LAMPS

FOREWORD

1) The IEC (International Electrotechnical Commisssion) is a world wide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

International Standard IEC 630 has been prepared by sub-committee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment. This second edition cancels and replaces the first edition published in 1979.

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

DIS	Reports on voting
34A(CO)456	34A(CO)518A
34A(CO)585	34A(CO)600A
34A(CO)638	34A(CO)689

Full information on the voting for the approval of this standard can be found in the reports on voting indicated in the above table.

MAXIMUM LAMP OUTLINES FOR INCANDESCENT LAMPS

SECTION 1 – GENERAL

1.1 Scope

This standard comprises maximum lamp outlines for incandescent lamps having:

- a rated wattage of up to and including 1 500 W;
- a rated voltage of 65 V to 250 V inclusive;
- caps B15, B22, E14, E17, E26, E27, E39 and E40.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61, *Lamps caps and holders together with gauges for the control of interchangeability and safety*

IEC 61-1: 1969, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 61-3: 1983, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 64: 1993, *Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements*

IEC 432, *Safety specifications for incandescent lamps*

IEC 432-1: 1993, *Safety specifications for incandescent lamps – Part 1: Tungsten filament lamps for domestic and similar general lighting purposes*

IEC 887: 1988, *Glass bulb designation system for lamps*

IEC 1126: 1992, *Procedure for use in the preparation of maximum lamp outlines*

1.3 General

Observance of these requirements in luminaire design will ensure mechanical acceptance of lamps complying with the standard in which such lamps are included. No account is taken of temperature requirements, which are listed separately in the relevant lamp specification.

For full information on the procedure to establish maximum lamp outline drawings, see IEC 1126.

For full information on the nomenclature used for the designation of bulb shapes, see IEC 887.

This standard does not take into account safety criteria. Readers should refer to IEC 432.

This standard does not take into account the performance of tungsten filament lamps with respect to luminous flux, life or power consumption characteristics. Readers should refer to IEC 64.

For lamp caps and gauges, see IEC 61.

SECTION 2 - LAMP OUTLINE DATA SHEETS

2.1 Introduction

The numbering system for data sheets is made up of four parts as follows:

- the first number represents the number of this standard (IEC 630);
- the second part is the letter grouping "IEC";
- the third part is the basic data sheet number from the series in the following table;
- the fourth part is a number indicating the edition of the sheet.

NOTE - When amendments are made to data sheets, the affected pages are issued with an updated edition number. For example, data sheet 630-IEC-1010-1 has been amended and its new issue number is 630-IEC-1010-2.

The sequence of the data sheets is by "wattage" within the following subdivisions:

Category	Data sheet numbers
Lamps with caps B15, B22, E14, E27 and E39/E40*	1000 - 1499
Reflector lamps with caps B22, E14 and E27	1500 - 1999
Lamps with caps E26/24**	2000 - 2499
Reflector lamps with caps E26/24** and E26/53x39	2500 - 2999
Lamps with caps E26/25**	3000 - 3499
Reflector lamps with caps E17 and E26/25**	3500 - 3999

* The combined sheets for E39 and E40 capped lamps will be split up (under consideration).

** There are two variations of E26 caps which are not fully compatible. In this standard, separate references are made to E26/24 caps used in North America and E26/25 caps used in Japan.

2.2 List of specific lamp types included in this standard

Sheet No	Description	Typical Wattage(s)	Cap
630-IEC-1010-2	Pear shape/A60-PS60	25 W, 40 W, 60 W, 100 W	B22d/25x26
630-IEC-1020-2	Pear shape/A60-PS60	25 W, 40 W, 60 W, 100 W	E27/27
630-IEC-1030-2	Pear shape/A80-PS80	150 W	B22d/25x26
630-IEC-1040-2	Pear shape/A80-PS80	150 W, 200 W	E27/27
630-IEC-1050-2	Pear shape/A90-PS90	300 W	E27/27
630-IEC-1060-2	Pear shape/A90-PS90	300 W	E39/41, E40/41
630-IEC-1070-2	Pear shape/A110-PS110	300 W, 500 W	E39/41, E40/45
630-IEC-1080-2	Pear shape/A130-PS130	1 000 W	E39/41, E40/45
630-IEC-1090-2	Pear shape/A150-PS150	1 000 W	E39/41, E40/45
630-IEC-1100-2	Pear shape/A170-PS170	1 500 W	E39/41, E40/45

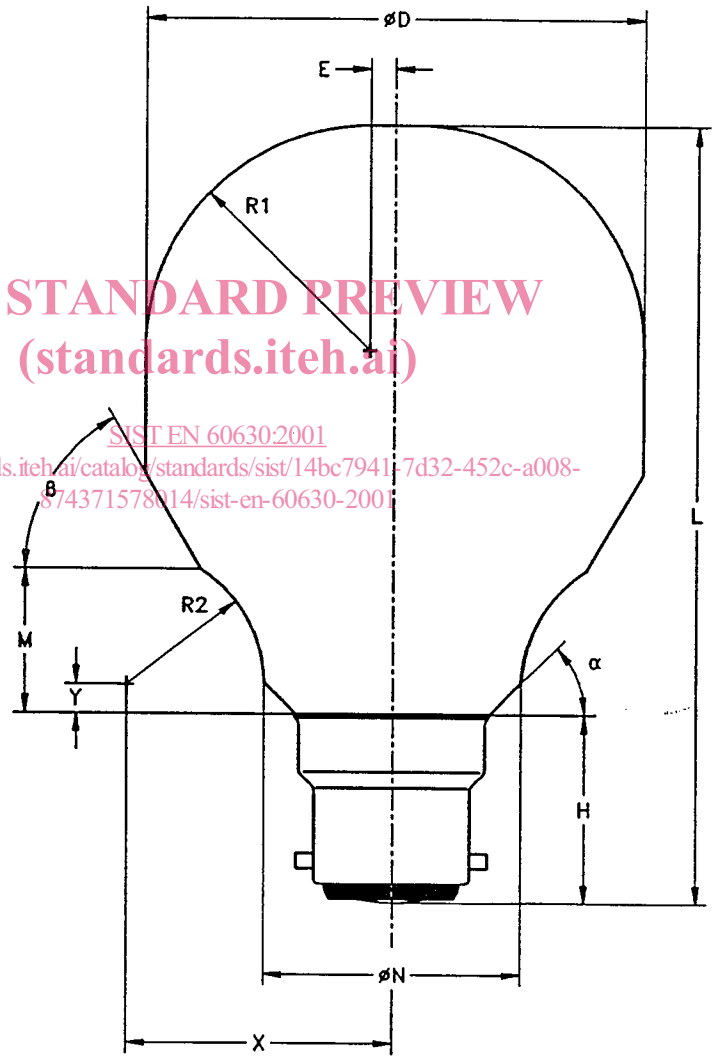
Sheet No	Description	Typical Wattage(s)	Cap
630-IEC-1110-2	Mushroom shape/M60	40 W, 60 W, 100 W	B22d/25x26
630-IEC-1115-1	Mushroom shape/M50	40 W, 60 W	B22d/25x26
630-IEC-1120-2	Mushroom shape/M60	40 W, 60 W, 100 W	E27/27
630-IEC-1125-1	Mushroom shape/M50	40 W, 60 W	E27/27
630-IEC-1130-2	Mushroom shape/M75	150 W	B22d/25x26
630-IEC-1140-2	Mushroom shape/M75	150 W	E27/27
630-IEC-1150-2	Round bulb/P45	-	B22d/22, B22d/25x26
630-IEC-1160-2	Round bulb/P45	-	E27/27
630-IEC-1170-2	Round bulb/P45	-	B15d/24x17
630-IEC-1180-2	Round bulb/P45	-	E14/25x17
630-IEC-1190-2	Candle lamp/B35	-	B22d/22, B22d/25x26
630-IEC-1200-2	Candle lamp/B35	-	E27/27
630-IEC-1210-2	Candle lamp/B35	-	B15d/24x17
630-IEC-1220-2	Candle lamp/B35	-	E14/25x17
630-IEC-1510-1	Reflector lamp/R50	-	E14/25x17
630-IEC-1520-1	Reflector lamp/R60-R63	-	E27/27
630-IEC-1530-1	Reflector lamp/R60-R63	-	B22d/25x26
630-IEC-1540-1	Reflector lamp/R80	-	E27/27
630-IEC-1550-1	Reflector lamp/R80	-	B22d/25x26
630-IEC-1570-1	Reflector lamp/R95	-	E27/27
630-IEC-1580-1	Reflector lamp/R95	-	B22d/25x26
630-IEC-1590-1	Reflector lamp/R125	-	E27/27
630-IEC-1600-1	Reflector lamp/R125	-	B22d/25x26
630-IEC-2010-1	Pear shape/A60	25 W, 40 W, 60 W, 100 W	E26/24
630-IEC-2020-1	Pear shape/A60	25 W	E26/24
630-IEC-2030-1	Pear shape/A67	150 W, 200 W	E26/24
630-IEC-2040-1	Pear shape/A71	200 W	E26/24
630-IEC-2050-1	Pear shape/A90	300 W	E26/24
630-IEC-2510-1	Reflector lamp/R63	-	E26/24
630-IEC-2520-1	Reflector lamp/R95	-	E26/24
630-IEC-2530-1	Reflector lamp/RE95	-	E26/24
630-IEC-2540-1	Reflector lamp/R127(SG)*	-	E26/24
630-IEC-2550-1	Reflector lamp/R127(HG)*	-	E26/24
630-IEC-2560-1	Reflector lamp/R127(HG)*	-	E26/53x39
630-IEC-3010-1	Pear shape/A55-PS55	30 W, 40 W	E26/25
630-IEC-3020-1	Pear shape/A60-PS60	60 W, 100 W	E26/25
630-IEC-3030-1	Pear shape/A75-PS75	150 W, 200 W	E26/25
630-IEC-3510-1	Reflector lamp/R50	-	E17/20
630-IEC-3520-1	Reflector lamp/R63	-	E26/25
630-IEC-3530-1	Reflector lamp/R80	-	E26/25
630-IEC-3540-1	Reflector lamp/R100	-	E26/25
630-IEC-3550-1	Reflector lamp/R110	-	E26/25
630-IEC-3560-1	Reflector lamp/R120	-	E26/25
630-IEC-3570-1	Reflector lamp/R127	-	E26/25
630-IEC-3580-1	Reflector lamp/R135	-	E39/45
630-IEC-3590-1	Reflector lamp/R160	-	E39/45
630-IEC-3600-1	Reflector lamp/R170	-	E39/45
630-IEC-3610-1	Reflector lamp/XR60	-	E26/25
630-IEC-3620-1	Reflector lamp/YR65	-	E26/25
630-IEC-3630-1	Reflector lamp/ZR75	-	E26/25
630-IEC-3640-1	Reflector lamp/ZR95	-	E26/25

* SG = Soft glass HG = Hard glass

Culot/cap B22	ENCOMBREMENT MAXIMAL POUR DES LAMPES A INCANDESCENCE MAXIMUM LAMP OUTLINES FOR INCANDESCENT LAMPS	Désignation de l'ampoule Bulb designation A60 - PS60

Puissance(s) typique(s) Typical wattage(s)	Culot Cap	Diamètre de l'ampoule Bulb diameter	Longueur hors tout Overall length
25 W, 40 W, 60 W, 100 W	B22d/25x26	Max 62	Max 108,5

Dimensions en millimètres - Dimensions in millimetres
Dessin pas à l'échelle - Drawing not to scale

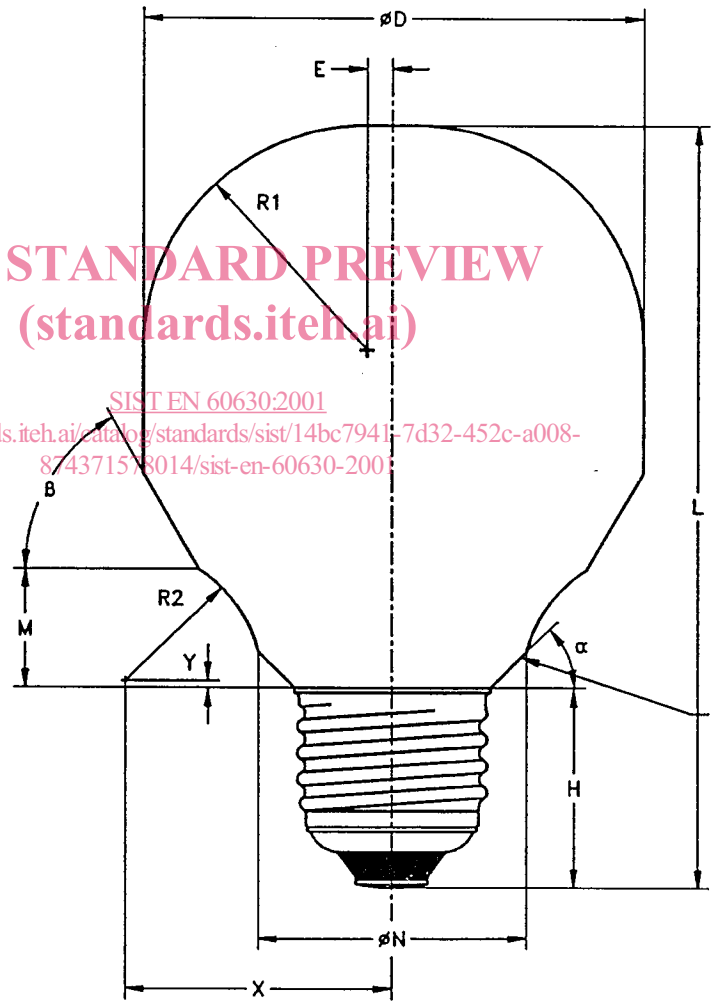


D	69
E	3,5
H	26
L	108,5
M	20
N	35
R1	31
R2	19
X	37
Y	4
α	45°
ß	60°

Culot/Cap E27	ENCOMBREMENT MAXIMAL POUR DES LAMPES A INCANDESCENCE MAXIMUM LAMP OUTLINES FOR INCANDESCENT LAMPS	Désignation de l'ampoule Bulb designation A60 - PS60

Puissance(s) typique(s) Typical wattage(s)	Culot Cap	Diamètre de l'ampoule Bulb diameter	Longueur hors tout Overall length
25 W, 40 W 60 W, 100 W	E27/27	Max 62	Max 110

Dimensions en millimètres - Dimensions in millimetres
Dessin pas à l'échelle - Drawing not to scale



D	69
E	3,5
H	27
L	110
M	17
N	35
R1	31
R2	19
X	37
Y	1
α	45°
ß	60°

NOTE
(1) Au-dessous de cette ligne le calibre correspondant s'applique.
(1) Below this line the corresponding gauge applies.