



SLOVENSKI STANDARD
SIST EN 60357:1999/A7:1999
01-julij-1999

Tungsten halogen lamps (non-vehicle) - Amendment A7 (IEC 60357:1982/A7:1994)

Tungsten halogen lamps (non-vehicle)

Halogen-Glühlampen (Fahrzeuglampen ausgenommen)

Lampes tungstène-halogène (véhicules exceptés)

Ta slovenski standard je istoveten z: EN 60357:1988/A7:1994

[SIST EN 60357:1999/A7:1999](https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999)

<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999>

ICS:

29.140.20 Žarnice z žarilno nitko Incandescent lamps

SIST EN 60357:1999/A7:1999 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60357:1999/A7:1999

<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60357/A7

December 1994

UDC 621.357.534:620.1
ICS 29.140.20

Descriptors: Lighting fitting, tungsten filament lamp, halogen lamp, electrical characteristic, dimension, maximum pinch temperature, condition of use

English version

**Tungsten halogen lamps (non-vehicle)
(IEC 357:1982/A7:1994)**

Lampes tungstène-halogène (véhicules
exceptés)
(CEI 357:1982/A7:1994)

Halogen-Glühlampen (Fahrzeuglampen
ausgenommen)
(IEC 357:1982/A7:1994)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60357:1999/A7:1999](https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999)
[https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-
db2c671d9fff/sist-en-60357-1999-a7-1999](https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999)

This amendment A7 modifies the European Standard EN 60357:1988; it was approved by CENELEC on 1994-12-06. 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, 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

The text of document 34A(CO)700, future amendment 7 to IEC 357:1982, 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 amendment A7 to EN 60357 on 1994-12-06.

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) 1995-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-12-01

For products which have complied with EN 60357:1988 and its amendments A4:1991, A5:1993 and A6:1994 before 1995-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-12-01.

Endorsement notice

The text of amendment 7:1994 to the International Standard IEC 357:1982 was approved by CENELEC as an amendment to the European Standard without any modification.

SIST EN 60357:1999/A7:1999

<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999>

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
357

Deuxième édition
Second edition
1982

Modifiée selon les amendements:
Amended in accordance with amendments:
1(1984), 2(1985), 3(1987), 4(1989),
5(1992), 6(1993) et/and 7(1994)

Lampes tungstène-halogène
(véhicules exceptés)

Tungsten halogen lamps
(non-vehicle)
(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999>

© CEI 1994 Droits de reproduction réservés — Copyright — all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

TUNGSTEN HALOGEN LAMPS (NON-VEHICLE)

SECTION ONE – GENERAL

1 Scope

This standard specifies dimensions and characteristics of tungsten halogen lamps.

The standard has been divided into sections according to the following lamp applications:

PROJECTION
PHOTOGRAPHIC (including studio)
FLOODLIGHTING
SPECIAL PURPOSE
GENERAL PURPOSE
STAGE LIGHTING

Lamps for automobile, aircraft and similar applications are not covered by this standard.

NOTE - Projection lamps include those used for cinematograph and still projection applications.

(standards.iteh.ai)

The specific requirements for tubular low-pressure tungsten halogen lamps are given in Clause 9.

[SIST EN 60357:1999/A7:1999](https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-d92c671d9fff/sist-en-60357-1999-a7-1999)

[https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-](https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-d92c671d9fff/sist-en-60357-1999-a7-1999)

The requirements for lamp caps are given in IEC Publication 61-1.

For the purpose of this standard the following voltage designations apply:

<i>Voltage designation</i>	<i>Range of supply voltage</i>
A	< 50 V
B	50-170 V
C	> 170-250 V

2 Limits on maximum watts

Lamps covered by this standard shall have a maximum wattage at rated voltage as follows:

Maximum wattage = rated wattage + 8 %

Except where the standard sheet states:

Maximum wattage = rated wattage + 12 %

For each type, 95 % of production shall comply with this requirement.

3 Guidance for the application of tungsten halogen lamps

The life of tungsten halogen lamps will be adversely affected by switching-on with, and/or operation at, supply voltages which are higher than the lamp rated voltage.

Lamps which are designed for use on higher supply voltages (voltage designations B and C) will, in general, tolerate larger increases in supply voltage than those of low rated voltage (voltage designation A) particularly those lamps designed for very high luminous efficacy and/or high correlated colour temperature.

Luminous efficacy and correlated colour temperature are closely related to the attainable lamp life, therefore, rated lamp voltage and declared lamp life are good indicators of the degree of overvoltage which is tolerable to achieve acceptable lamp performance.

For this purpose the following guidelines should be observed.

Declared lamp life h	Maximum percentage of rated lamp voltage	
	Voltage designation A	Voltage designation B and C
< 25	100 %	} 110 %
25 to < 50	105 %	
50 to < 200	108 %	
≥ 200	110 %	

NOTES

<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-60357/EN-60357-1999-A7-1999>

- 1 If lamps are marked with a voltage range, the rated voltage shall be taken as the mean of the voltages marked.
- 2 Better control of voltage fluctuations can be obtained by use of a properly designed power supply.

This is particularly applicable to lamps of voltage designation A.

Series operation of ELV lamps (voltage designation A) is not permitted unless the lamps are especially designed for such operation and approved for such use by the lamp manufacturer.

Special circuits which suitably limit the lamp voltage and/or current are also permitted.

4 Cautionary notice for photographic and floodlight lamps

It is recommended that cautionary notices should be supplied with tungsten halogen photographic and floodlight lamps. These notices should cover at least the following minimum requirements and should be based on the wording shown below:

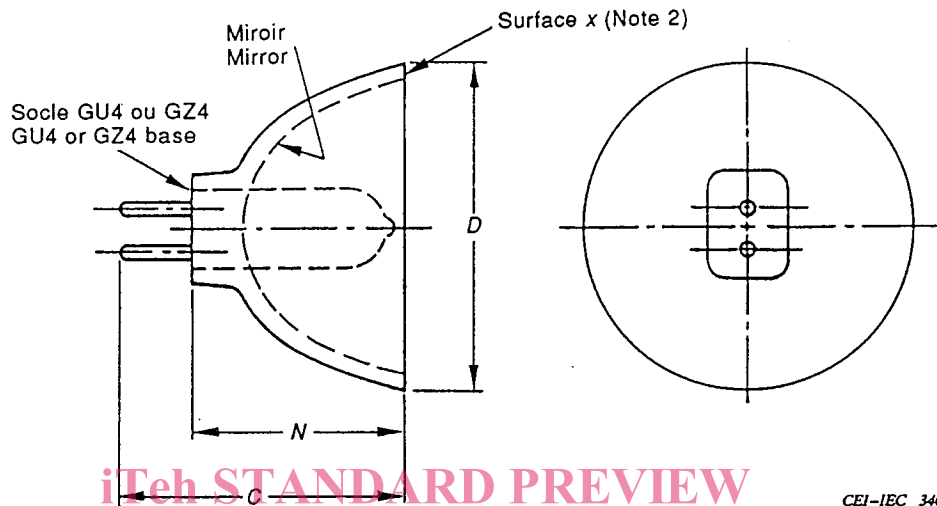
Caution: To ensure maximum safety, the following precautions should be observed:

- a) The luminaire should be provided with a protective shield;
- b) Disconnect the luminaire from the power supply before removing or installing a lamp or an equipment fuse.

**DIMENSIONS EXTÉRIEURES
DES LAMPES TUNGSTÈNE-HALOGÈNE
À RÉFLECTEUR INTÉGRÉ DE 35 mm
ET À SOCLE GZ4 OU GU4**

**EXTERNAL DIMENSIONS OF TUNGSTEN HALOGEN LAMPS
HAVING A 35 mm INTEGRAL MIRROR
AND EITHER A GZ4 OR GU4 BASE**

Dimensions en millimètres – Dimensions in millimetres



STANDARD PREVIEW
(standards.iteh.ai)

CEI-IEC 340194

Dimension	Min.	Max.
D (Note 1)	34,3	35,3
C	—	40,0
N	25,0	30,0

NOTES

1 Le diamètre maximal autorisé comprend les bavures de moulage et d'ovalisation.
Allowable maximum diameter includes mould flash and out-of-roundness.

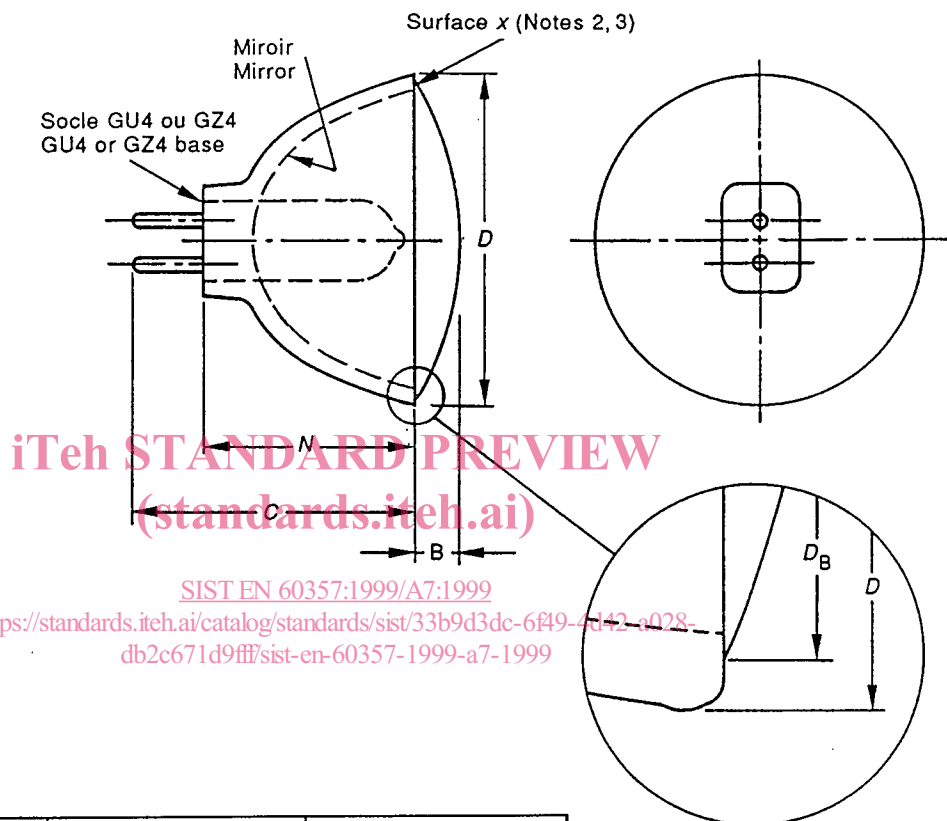
2 La surface x peut être utilisée pour positionner la lampe; dans ce cas, elle doit s'emboîter fermement dans tout dispositif de centrage quelconque du rebord, afin d'obtenir un alignement optique adéquat. Dans le cas des lampes GZ4, le dispositif de centrage du rebord remplit une fonction essentielle de rétention de la lampe. Surface x can be used to position the lamp and when so used should mate firmly with any rim-centring device to obtain proper optical alignment. A rim-centring device performs an essential lamp retention function for GZ4 based lamps.

**DIMENSIONS EXTÉRIEURES
DES LAMPES TUNGSTÈNE-HALOGÈNE
D'USAGE GÉNÉRAL DE DIAMÈTRE 35 mm
AVEC RÉFLECTEUR ET GLACE AVANT INTÉGRÉE**

**EXTERNAL DIMENSIONS OF TUNGSTEN HALOGEN
GENERAL PURPOSE LAMPS
HAVING A 35 mm INTEGRAL MIRROR AND FRONT COVER**

Dimensions en millimètres – Dimensions in millimetres

Le dessin a pour but d'indiquer les dimensions qui sont importantes pour le montage de la lampe et de son support.
The drawing is intended only to indicate the dimensions which are important for the fit of the lamp in the lampholder.



SIST EN 60357:1999/A7:1999
<https://standards.iteh.ai/catalog/standards/sist/33b9d3dc-6f49-4d42-a028-db2c671d9fff/sist-en-60357-1999-a7-1999>

Vue agrandie du rebord
Enlarged view of rim

CEI-IEC 341/94

Dimension	Min.	Max.
D (Note 1)	34,30	35,30
C	–	40,00
B	–	5,00
D_B	–	33,5
N	25,0	30,0

NOTES

1 Le diamètre maximal autorisé comprend les bavures de moulage et d'ovalisation.
Allowable maximum diameter includes mould flash and out-of-roundness.

2 La surface x peut être utilisée pour positionner la lampe; dans ce cas, elle doit s'emboîter fermement dans tout dispositif de centrage quelconque du rebord, afin d'obtenir un alignement optique adéquat. Dans le cas des lampes GZ4, le dispositif de centrage du rebord remplit une fonction essentielle de rétention de la lampe. Surface x can be used to position the lamp and when so used should mate firmly with any rim-centring device to obtain proper optical alignment. A rim-centring device performs an essential lamp retention function for GZ4 based lamps.

3 La surface x doit être définie par l'anneau formé par la différence entre les diamètres D et D_B .
Surface x is to be defined by the annulus formed by the difference between diameters D and D_B .