



NSAI
Standards

Irish Standard
I.S. EN 2756:2010

Aerospace series - Lamps, incandescent - Test methods

I.S. EN 2756:2010

Incorporating amendments/corrigenda issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i>	<i>This document is based on:</i> EN 2756:2010	<i>Published:</i> 24 February, 2010
This document was published under the authority of the NSAI and comes into effect on: 22 March, 2010		ICS number: 49.060
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
Údarás um Chaighdeáin Náisiúnta na hÉireann		

ICS 49.060

English Version

Aerospace series - Lamps, incandescent - Test methods

Série aérospatiale - Lampes à incandescence - Méthodes
d'essais

Luft- und Raumfahrt - Glühlampen - Prüfverfahren

This European Standard was approved by CEN on 26 September 2009.

CEN 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 CEN Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Tests.....	4
3.1 Test conditions	4
3.2 Visual examination	4
3.2.1 External appearance.....	4
3.2.2 Quality of marking	5
3.3 Mass and dimensions	5
3.4 Electrical and photometric tests	5
3.4.1 General.....	5
3.4.2 Homogeneity of filament.....	5
3.4.3 Luminous flux at nominal voltage	5
3.4.4 Luminous flux at reduced voltage	5
3.4.5 Colour temperature of the filament.....	6
3.4.6 Voltage strength and insulation resistance	6
3.4.7 Life.....	7
3.5 Mechanical tests	10
3.5.1 Test support.....	10
3.5.2 Vibration resistance test.....	11
3.5.3 Impact resistance test.....	11
3.5.4 Mechanical strength of caps test.....	11
3.6 Climatic tests	12
3.6.1 Behaviour at extreme temperature test.....	12
3.6.2 Salt spray tests	13
3.7 Tests form.....	13

Foreword

This document (EN 2756:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2010, and conflicting national standards shall be withdrawn at the latest by August 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the test methods for incandescent lamps used for aerospace applications.

It concerns lamps used for lighting and/or for interior or exterior signalling.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2240-001:2009, *Aerospace series — Lamps, incandescent — Part 001: Technical specification*

EN 2240-002, *Aerospace series — Lamps, incandescent — Part 002: Main characteristics*

ISO 2678, *Environmental tests for aircraft equipment — Insulation resistance and high voltage tests for electrical equipment*

ISO 7137, *Aircraft — Environmental conditions and test procedures for airborne equipment*

IEC 60061-3, *Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 3: Gauges*

3 Tests

3.1 Test conditions

Unless otherwise specified, the tests shall be carried out under the following conditions:

- ambient temperature: 15 °C to 35 °C;
- atmospheric pressure: 84 kPa to 107 kPa;
- relative humidity < 85 %.

Prior to all tests, the lamps shall be placed in these conditions for 1 h. The atmosphere of the environment shall not undergo any significant variations during a series of tests. (See ISO 7137.)

NOTE Each lamp subjected to tests shall be the object of individual monitoring.

3.2 Visual examination

3.2.1 External appearance

The lamps shall not present any defect capable of having an adverse effect on their installation or correct functioning; they shall conform with the characteristics specified in the product standards.

The bulb shall have a regular shape and shall not exhibit any defect which may adversely affect utilization.

The form and position of the filament shall conform with the indications given in EN 2240-002.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-