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JIS C 7501 : 2011

(JELMA/JSA)

**Tungsten filament lamps for domestic and  
similar general lighting purposes**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Electric Lamp Manufacturers Association (JELMA) /Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS C 7501:2000** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or the utility model right.

# Tungsten filament lamps for domestic and similar general lighting purposes

## Introduction

This Japanese Industrial Standard has been prepared based on Edition 6.3 of **IEC 60064** published in 2005, Amendment 4 (2007) and Amendment 5 (2009) with some modifications of the technical contents to reflect the distribution voltage and product specifications that are uniquely applied in the Japanese market.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JD. Further, Annex JA, Annex JB and Annex JC contain matters that are not given in the corresponding International Standard.

## 1 Scope

This Standard applies to tungsten filament incandescent lamps (hereafter referred to as the “lamps”) for general lighting service which comply with the safety requirements in JIS C 7551-1 and having :

- a) rated wattage of 10 W to 200 W, inclusive;
- b) rated voltage 100 V;
- c) bulbs of the A or PS shapes, or other similar shapes;

The bulb shapes and designations shall be in accordance with JIS C 7710.

- d) bulbs with clear or white finishes;
- e) caps E26/25.

Cap types and dimensions shall be in accordance with JIS C 7709-1.

Specific cap types are covered in clause 4.

The test methods and measurement procedures specified in this Standard are applicable to the evaluation of lamps which is not directly covered by this Standard (e.g. on various bulb shapes, finish, etc.).

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60064 : 2005 *Tungsten filament lamps for domestic and similar general lighting purposes — Performance requirements*, Amendment 4 : 2007 and Amendment 5 : 2009 (MOD)

The symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to

## ISO/IEC Guide 21-1.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7507 *Vernier, dial and digital callipers*

JIS C 1609-1 *Illuminance meters Part 1 : General measuring instruments*

JIS C 7551-1 *Incandescent lamps — Safety specifications — Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes*

NOTE : Corresponding International Standard : **IEC 60432-1** *Incandescent lamps — Safety specifications — Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes* (MOD)

JIS C 7709-1 *Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1 : Lamp caps*

NOTE : Corresponding International Standard : **IEC 60061-1** *Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 1 : Lamp Caps* (MOD)

JIS C 7709-3 *Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 3 : Gauges*

NOTE : Corresponding International Standard : **IEC 60061-3** *Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 3 : Gauges* (MOD)

JIS C 7710 *Designation method for glass bulbs of lamps*

JIS Z 8113 *Lighting vocabulary*

### 3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in JIS Z 8113 and the following apply.

#### 3.1 type

lamps which, independent of type of cap, are identical in photometric and electrical characteristics

#### 3.2 white finish

a low-loss white bulb finish, usually applied internally, that provides diffused light

#### 3.3 light centre length

in the sense of this Standard and where specified on a lamp data sheet, light centre length is the distance from the geometrical centre of the filament to the contact plate of the cap, including solder

NOTE : A light centre length specification applies only to lamps with a clear

finish.

### **3.4 initial readings**

the photometric and electrical measurements made at the end of the ageing period

### **3.5 rated voltage**

voltage or voltage range specified in the relevant lamp standard or assigned by the manufacturer or responsible vendor

NOTE : If lamps are marked with a voltage range, it shall be interpreted that they are appropriate for use on any line voltage within that range.

### **3.6 test voltage**

the rated voltage unless otherwise specified

If lamps are marked with a voltage range, the test voltage shall be taken as the mean of the voltage range unless otherwise specified.

### **3.7 rated wattage**

wattage specified in the relevant lamp standard or assigned by the manufacturer or responsible vendor

### **3.8 initial luminous flux**

the total luminous flux at the rated voltage of a lamp after ageing

### **3.9 rated initial luminous flux**

the initial luminous flux which is used as a reference value for service duration

### **3.10 lumen maintenance**

the ratio in percent of the total luminous flux of a lamp after burning for a duration equal to 75 % of the rated life to its initial luminous flux

### **3.11 life**

the total burning time of a lamp until its filament is broken, or is assessed to be so by a specified standard

### **3.12 rated life**

the time which is announced officially based on the average value of life of the same type of lamps manufactured over a long period

### **3.12A luminance ratio**

the ratio of the maximum luminance to the luminance at a specified position in a lamp

### **3.12B maximum lamp outline**

space to be secured by a lamp fitting in order to guarantee mounting of a lamp

## 4 Type designation and data sheets

### 4.1 Type designation

The type designation shall be formed in the following order.

| 1                                         | 2                                               | 3                                         | 4                                                                                                                                            |                                                                                                                           | 5                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Symbol denoting general incandescent lamp | Symbol denoting internal surface finish of bulb | Numeral and symbol denoting rated voltage | Numerical and symbol denoting rated wattage                                                                                                  |                                                                                                                           | Symbol denoting bulb diameter                                                                                                     |
| L                                         | W : white finish<br>No mark : clear             | 100 V                                     | 10 W<br>18 W (20 W type)<br>19 W (20 W type)<br>20 W<br>27 W (30 W type)<br>29 W (30 W type)<br>30 W<br>36 W (40 W type)<br>38 W (40 W type) | 40 W<br>54 W (60 W type)<br>57 W (60 W type)<br>60 W<br>90 W (100 W type)<br>95 W (100 W type)<br>100 W<br>150 W<br>200 W | 55 : LW lamps of 100 V-54 W with bulb diameter of 55 mm<br>No mark : LW lamps of 100 V-54 W with bulb diameter of 60 mm or others |

NOTE 1 At the end of type designation symbols or numerals which express further classification may be added.

NOTE 2 The type designation in parentheses may be omitted.

NOTE 3 Products are designated by the product name and the type.

Example General incandescent lamp LW100V54W

### 4.2 Data sheets

Type designation of lamps and their respective data sheet numbers are given in table 1.

**Table 1 Type designation and data sheet number**

| Type        | Bulb diameter | Data sheet number  | Data sheet number of the corresponding IEC standard |
|-------------|---------------|--------------------|-----------------------------------------------------|
| L100V10W    | 55            | C 7501-JIS-2000J-1 | —                                                   |
| L100V20W    | 55            | C 7501-JIS-2005J-1 | —                                                   |
| L100V30W    | 55            | C 7501-JIS-2010-2  | 60064-IEC-2010-2                                    |
| L100V40W    | 55            | C 7501-JIS-2030-2  | 60064-IEC-2030-2                                    |
| L100V60W    | 60            | C 7501-JIS-2050-2  | 60064-IEC-2050-2                                    |
| L100V100W   | 60            | C 7501-JIS-2070-2  | 60064-IEC-2070-2                                    |
| L100V150W   | 75            | C 7501-JIS-2090-2  | 60064-IEC-2090-2                                    |
| L100V200W   | 75            | C 7501-JIS-2110-2  | 60064-IEC-2110-2                                    |
| LW100V18W   | 55            | C 7501-JIS-1005-1  | 60064-IEC-1005-1                                    |
| LW100V19W   | 55            | C 7501-JIS-2006J-2 | —                                                   |
| LW100V27W   | 55            | C 7501-JIS-2011J-2 | —                                                   |
| LW100V29W   | 55            | C 7501-JIS-2011-1  | 60064-IEC-2011-2                                    |
| LW100V36W   | 55            | C 7501-JIS-2033-1  | 60064-IEC-2033-1                                    |
| LW100V38W   | 55            | C 7501-JIS-2031-1  | 60064-IEC-2031-2                                    |
| LW100V54W55 | 55            | C 7501-JIS-2052-1  | 60064-IEC-2052-1                                    |
| LW100V54W   | 60            | C 7501-JIS-2053-1  | 60064-IEC-2053-1                                    |
| LW100V57W   | 60            | C 7501-JIS-2051-1  | 60064-IEC-2051-2                                    |
| LW100V90W   | 60            | C 7501-JIS-2072-1  | 60064-IEC-2072-1                                    |
| LW100V95W   | 60            | C 7501-JIS-2071-1  | 60064-IEC-2071-2                                    |

### 4.3 General rule of data sheet numbers

The data sheet number as shown in the following example shall be given on each page of data sheets :

#### Example 1 C 7501-JIS-2010-1

The first symbol and number indicate the section symbol and the number of this Standard, as in “C 7501”, which is followed by “-JIS”.

The second number to be attached is a set of four digits that are the same as the data sheet number of IEC standard corresponding to the lamp specified in the data sheet. When two or more lamps are specified in one data sheet, the smallest of the numbers of the IEC data sheet corresponding to the specified lamps shall be given.

If the lamp has no specification in IEC and therefore no corresponding data sheet number, the lamp shall be provided with a unique number, which is then followed by the letter “J”.

#### Example 2 C 7501-JIS-2006J-1

The third number indicates the edition number of the data sheet. The first edition is indicated as 1, and the number is increased as the edition is updated, as in 2, 3.... When the data sheet number of the same lamp covers two or more pages, the edition number shall be changed for all the pages covered, i.e. both on the revised and unrevised pages.

## 5 General, dimensional, electrical, photometric and life requirements

### 5.1 General

5.1.1 The lamps on which compliance with this Standard is claimed shall comply with the requirements of the relevant safety standard JIS C 7551-1.

5.1.2 Lamps shall be so designated that their performance is reliable in normal and accepted use. In general, this can be achieved by satisfying the requirements of this Standard.

5.1.3 Lamps shall be tested under the conditions and procedures of Annex A, with the exception of the luminance ratio test which shall be in accordance with Annex JA.

### 5.2 Marking

#### 5.2.1 Marking on products

Lamps shall be given marking in accordance with the specification of JIS C 7551-1. Information identifying the classification of the lamp shall be marked on the product or on the smallest unit package such that the marking is visible from the outside of the package.

#### 5.2.2 Marking on package

The following information shall be marked on package.

- a) Type
- b) Name of the manufacturer or a responsible vendor, or a trademark or abbreviation of either

### 5.3 Dimensions

5.3.1 Dimensions shall be as shown in figure 1 and data sheet.

The numeral given in the type of bulb designated in the data sheet is the nominal diameter of the bulb. These nominal values shall not be used in the inspection of lamp dimensions.

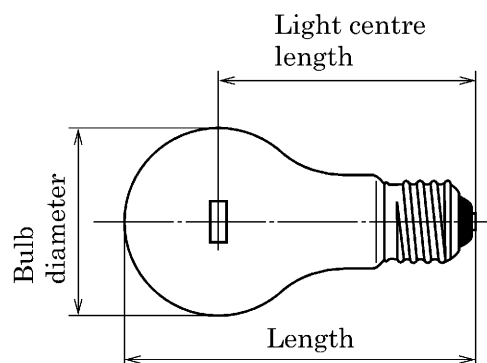


Figure 1 Lamp dimensions

## 5.4 Characteristics and tolerances of initial readings

### 5.4.1 Wattage

The initial wattage of individual lamps shall not exceed 104 % of the rated wattage specified on the relevant lamp data sheet plus 0.5 W.

### 5.4.2 Luminous flux initial

**5.4.2.1** Rated initial luminous flux of the lamps shall not be less than the values shown on the relevant lamp data sheet.

**5.4.2.2** The initial luminous flux readings of individual clear lamps shall not be less than 93 % of the rated initial luminous flux shown on the relevant lamp data sheet.

**5.4.2.3** The initial luminous flux readings of individual white-coated lamps shall not be less than 90 % of the rated initial luminous flux shown on the relevant lamp data sheet.

### 5.4.3 Luminance ratio

The luminance ratio of white-coated lamps shall not exceed 20.

## 5.5 Lumen maintenance

For the lumen maintenance, after operating the lamp for 75 % of rated life, the total luminous flux shall be measured and the ratio of this value to the initial luminous flux shall be calculated. The obtained value shall be not less than the minimum value specified on the relevant lamp data sheet.

## 5.6 Life

Individual lamps shall have a life of not less than 70 % of the rated life specified on the relevant data sheet. Further, the average life shall not be less than 96 % of the said rated life.

## 6 Inspection

### 6.1 Type inspection

For the type inspection, the following items shall be tested on the same specimen, by following the specification in **5.1.3**. The type inspection results shall satisfy the requirements in clause **5**.

- a) Dimensions
- b) Luminance ratio
- c) Initial characteristics
- d) Lumen maintenance
- e) Life

## 6.2 Lot inspection

### 6.2.1 Inspection items

For the lot inspection, the following items shall be tested on the same specimen, by following the specification in 5.1.3. The lot inspection results shall satisfy the requirements in clause 5.

- a) Dimensions
- b) Initial characteristics
- c) Lumen maintenance
- d) Life

### 6.2.2 Sampling inspection

The sampling inspection shall be carried out by either of the following procedures.

- a) **Sampling inspection A** The sample size, acceptance number, and quality standard shall be as shown in table 2.

**Table 2 Sample size and acceptance number**

| Inspection item                                                                                                                                                                                                                                                                                                        |                       | Sample size<br><i>n</i> | Acceptance number <sup>a)</sup><br><i>C</i> | Quality standard       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|---------------------------------------------|------------------------|
| Dimensions                                                                                                                                                                                                                                                                                                             |                       | 10                      | 0                                           | As specified in 5.3.   |
| Initial characteristics                                                                                                                                                                                                                                                                                                | Wattage               | 25                      | 2                                           | As specified in 5.4.1. |
|                                                                                                                                                                                                                                                                                                                        | Initial luminous flux |                         |                                             | As specified in 5.4.2. |
| Lumen maintenance                                                                                                                                                                                                                                                                                                      |                       | 20 <sup>b)</sup>        | 3 <sup>b)</sup>                             | As specified in 5.5.   |
| Life (individual)                                                                                                                                                                                                                                                                                                      |                       | (12) <sup>b)</sup>      | (1) <sup>b)</sup>                           | As specified in 5.6.   |
| Life (average)                                                                                                                                                                                                                                                                                                         |                       |                         | —                                           | As specified in 5.6    |
| For the initial characteristics test, a part of lamps for dimensional test may be used.                                                                                                                                                                                                                                |                       |                         |                                             |                        |
| Notes <sup>a)</sup> Acceptance number is the permissible number of failed samples.                                                                                                                                                                                                                                     |                       |                         |                                             |                        |
| <sup>b)</sup> The life inspection shall be carried out on lamps sampled at random from those accepted in the initial characteristics test. The sample size is 20 as a standard, however, it may be 12 where sampling of 20 is unfeasible due to certain circumstances, in which case the acceptance number shall be 1. |                       |                         |                                             |                        |

- b) **Sampling inspection B** The sample size, acceptance number and quality standard shall be as shown in table 2A.

**Table 2A Sample size and acceptance number**

| Inspection item                                                                                                                            |                       | Sample size<br><i>n</i> | Acceptance number <sup>a)</sup><br><i>C</i> | Quality standard             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|---------------------------------------------|------------------------------|
| Dimensions                                                                                                                                 |                       | 50                      | 4                                           | As specified in <b>5.3</b>   |
| Initial characteristics                                                                                                                    | Wattage               | 100                     | 12                                          | As specified in <b>5.4.1</b> |
|                                                                                                                                            | Initial luminous flux |                         |                                             | As specified in <b>5.4.2</b> |
| Lumen maintenance                                                                                                                          |                       | 50 <sup>b)</sup>        | 8 <sup>b)</sup>                             | As specified in <b>5.5</b>   |
| Life (individual)                                                                                                                          |                       |                         | As specified in <b>5.6</b>                  |                              |
| Life (average)                                                                                                                             |                       |                         | —                                           | As specified in <b>5.6</b>   |
| For the initial characteristics test, a part of lamps for dimensional test may be used.                                                    |                       |                         |                                             |                              |
| Notes <sup>a)</sup> Acceptance number is the permissible number of failed samples.                                                         |                       |                         |                                             |                              |
| <sup>b)</sup> The life inspection shall be carried out on lamps sampled at random from those accepted in the initial characteristics test. |                       |                         |                                             |                              |

|                                                                                                                                                                                                        |                                                                                                                                                                                 |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2011                                                                                                                                                                                                   | Data sheet for single-coil filament<br>general incandescent lamps with bulb diameter 55, and designation<br>A55, PS55 or similar shape<br>E26      10 W      1 500 h (L100V10W) | Page 1/1      |
| Bulb designation : Lamps with bulb diameter 55, and designation A55, PS55 or similar shape<br>Bulb finish : Clear<br>Cap : E26/25<br>Rated voltage (V) : 100<br>Rated wattage (W) : 10<br>Dimensions : |                                                                                                                                                                                 |               |
| Unit : mm                                                                                                                                                                                              |                                                                                                                                                                                 |               |
| Length                                                                                                                                                                                                 |                                                                                                                                                                                 | Bulb diameter |
| 104 max.                                                                                                                                                                                               |                                                                                                                                                                                 | 56 max.       |
| Light centre length (mm) : 71 ± 4<br>Rated life (h) : 1 500<br>Lumen maintenance (%) : 72<br>Rated initial luminous flux (lm) : 73                                                                     |                                                                                                                                                                                 |               |
| Maximum lamp outline : Refer to Annex JB.                                                                                                                                                              |                                                                                                                                                                                 |               |
| C 7501-JIS-2000J-1                                                                                                                                                                                     |                                                                                                                                                                                 |               |

|                                                                                                         |                                                                                              |          |        |               |          |         |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|--------|---------------|----------|---------|
| 2011                                                                                                    | Data sheet for coiled-coil filament                                                          | Page 1/1 |        |               |          |         |
|                                                                                                         | general incandescent lamps with bulb diameter 55, and designation A55, PS55 or similar shape |          |        |               |          |         |
|                                                                                                         | E26 20 W 1 500 h (L100V20W)                                                                  |          |        |               |          |         |
| Bulb designation : Lamps with bulb diameter 55, and designation A55, PS55 or similar shape              |                                                                                              |          |        |               |          |         |
| Bulb finish : Clear                                                                                     |                                                                                              |          |        |               |          |         |
| Cap : E26/25                                                                                            |                                                                                              |          |        |               |          |         |
| Rated voltage (V) : 100                                                                                 |                                                                                              |          |        |               |          |         |
| Rated wattage (W) : 20                                                                                  |                                                                                              |          |        |               |          |         |
| Dimensions :                                                                                            |                                                                                              |          |        |               |          |         |
| Unit : mm                                                                                               |                                                                                              |          |        |               |          |         |
| <table><tr><td>Length</td><td>Bulb diameter</td></tr><tr><td>104 max.</td><td>56 max.</td></tr></table> |                                                                                              |          | Length | Bulb diameter | 104 max. | 56 max. |
| Length                                                                                                  | Bulb diameter                                                                                |          |        |               |          |         |
| 104 max.                                                                                                | 56 max.                                                                                      |          |        |               |          |         |
| Light centre length (mm) : 71 ± 4                                                                       |                                                                                              |          |        |               |          |         |
| Rated life (h) : 1 500                                                                                  |                                                                                              |          |        |               |          |         |
| Lumen maintenance (%) : 85                                                                              |                                                                                              |          |        |               |          |         |
| Rated initial luminous flux (lm) : 175                                                                  |                                                                                              |          |        |               |          |         |
| Maximu lamp outline : Refer to Annex JB.                                                                |                                                                                              |          |        |               |          |         |
| C 7501-JIS-2005J-1                                                                                      |                                                                                              |          |        |               |          |         |

|                                                                                            |                                                                     |  |                                                                                                         |        |               |          |         |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--------|---------------|----------|---------|
| 2011                                                                                       | Data sheet for coiled-coil filament                                 |  | Page 1/1                                                                                                |        |               |          |         |
| 2000                                                                                       | general incandescent lamps with bulb diameter 55, and designation   |  |                                                                                                         |        |               |          |         |
|                                                                                            | A55, PS55 or similar shape<br>E26      30 W      1 000 h (L100V30W) |  |                                                                                                         |        |               |          |         |
| Bulb designation : Lamps with bulb diameter 55, and designation A55, PS55 or similar shape |                                                                     |  |                                                                                                         |        |               |          |         |
| Bulb finish : Clear                                                                        |                                                                     |  |                                                                                                         |        |               |          |         |
| Cap : E26/25                                                                               |                                                                     |  |                                                                                                         |        |               |          |         |
| Rated voltage (V) : 100                                                                    |                                                                     |  |                                                                                                         |        |               |          |         |
| Rated wattage (W) : 30                                                                     |                                                                     |  |                                                                                                         |        |               |          |         |
| Dimensions :                                                                               |                                                                     |  |                                                                                                         |        |               |          |         |
|                                                                                            |                                                                     |  | Unit : mm                                                                                               |        |               |          |         |
|                                                                                            |                                                                     |  | <table><tr><td>Length</td><td>Bulb diameter</td></tr><tr><td>104 max.</td><td>56 max.</td></tr></table> | Length | Bulb diameter | 104 max. | 56 max. |
| Length                                                                                     | Bulb diameter                                                       |  |                                                                                                         |        |               |          |         |
| 104 max.                                                                                   | 56 max.                                                             |  |                                                                                                         |        |               |          |         |
| Light centre length (mm) : 71 ± 4                                                          |                                                                     |  |                                                                                                         |        |               |          |         |
| Rated life (h) : 1 000                                                                     |                                                                     |  |                                                                                                         |        |               |          |         |
| Lumen maintenance (%) : 85                                                                 |                                                                     |  |                                                                                                         |        |               |          |         |
| Rated initial luminous flux (lm) : 340                                                     |                                                                     |  |                                                                                                         |        |               |          |         |
| Maximum lamp outline : Refer to Annex JB.                                                  |                                                                     |  |                                                                                                         |        |               |          |         |
| C 7501-JIS-2010-2                                                                          |                                                                     |  |                                                                                                         |        |               |          |         |

|                                                                                                                                                                                                        |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|---------------|----------|---------|
| 2011                                                                                                                                                                                                   | Data sheet for coiled-coil filament<br>general incandescent lamps with bulb diameter 55, and designation<br>A55, PS55 or similar shape<br>E26      40 W      1 000 h (L100V40W) | Page 1/1                                                                                                |        |               |          |         |
| 2000                                                                                                                                                                                                   |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |
| Bulb designation : Lamps with bulb diameter 55, and designation A55, PS55 or similar shape<br>Bulb finish : Clear<br>Cap : E26/25<br>Rated voltage (V) : 100<br>Rated wattage (W) : 40<br>Dimensions : |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |
|                                                                                                                                                                                                        |                                                                                                                                                                                 | Unit : mm                                                                                               |        |               |          |         |
|                                                                                                                                                                                                        |                                                                                                                                                                                 | <table><tr><td>Length</td><td>Bulb diameter</td></tr><tr><td>104 max.</td><td>56 max.</td></tr></table> | Length | Bulb diameter | 104 max. | 56 max. |
| Length                                                                                                                                                                                                 | Bulb diameter                                                                                                                                                                   |                                                                                                         |        |               |          |         |
| 104 max.                                                                                                                                                                                               | 56 max.                                                                                                                                                                         |                                                                                                         |        |               |          |         |
| Light centre length (mm) : 71 ± 4<br>Rated life (h) : 1 000<br>Lumen maintenance (%) : 85<br>Rated initial luminous flux (lm) : 510                                                                    |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |
| Maximum lamp outline : Refer to Annex JB.                                                                                                                                                              |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |
| C 7501-JIS-2030-2                                                                                                                                                                                      |                                                                                                                                                                                 |                                                                                                         |        |               |          |         |