STD.NEMA C78.260-ENGL 1998 6470247 0527541 195

AMERICAN NATIONAL STANDARD

American National Standard

ANSI C78.260-1998

American National Standard

for electric lamps—

Tubular Tungsten-Halogen Lamps— Physical Characteristics Telephone Modem Communication

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
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Printed and distributed by:

Information Handling Services/Global Engineering Documents
15 Inverness Way East, Englewood, CO 80112-5776
Under Contract with National Electrical Manufacturers Association

Prepared by American National Lighting Group
In Affiliation with National Electrical Manufacturers Association
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First Edition
December 1998

ANSI C78.260-1998
Revision of ANSI C78.260-1990
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Foreword (This Foreword is not part of ANSI C78.260-1998.)

This revision of ANSI C78.260-1990 contains a supplement which was approved during the time of the editing process of the revision, namely, ANSI C78.260a-1999. This supplement will not be published separately.

Suggestions for improvement of this standard should be submitted to the Secretariat C78, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209.

This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C78, and its Sub-Committee, C78-1 for Incandescent Lamps. Committee approval of the standard does not necessarily imply that all committee members voted for that approval. At the time it published this standard, the C78 Committee had the following members:

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Cynthia Minshall, TC, ANSI C78.260-1998
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Tubular tungsten-halogen lamps—physical characteristics

1 Scope

This standard covers the dimensional limits and other physical characteristics required to assure the interchangeability and proper application of tubular tungsten-halogen lamps.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ANSI C81.61-1990 (R1996), *Electric lamp bases*

ANSI/IEC C78.682-1997, *Standard method of measuring the pinch temperature of quartz—tungsten halogen lamps*

ANSI/IEEE 268-1992, *Metric practice*

3 Light center length (single-ended lamps only)

3.1 E11 (Minican)

The light center length (LCL) of lamps with the minican (E11) base is measured from the center of the filament to the plane of a reference circle 0.531-inch in diameter on the surface of the 45-degree cone of the base, as shown in Figure 1.

3.2 BA15d (DC Bayonet)

The light center length (LCL) of lamps with the DC bayonet (BA15d) base is measured from the center of the filament to the top of the pin, as shown in Figure 1.

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3.3 GZ9.5

The light center length (LCL) of lamps with the GZ9.5 base is measured from the center of the filament to the plane of the base pads, as shown in Figure 1.

3.4 GY6.35

The light center length and the maximum overall length is measured from the bottom of the base pins as shown in Figure 1.

4 Lamp types

4.1 Double-ended lamps for general lighting

4.1.1 Linear source

Double-ended lamps of the linear-source type shall conform to the requirements in Table 1.

4.1.2 Compact source

Double-ended lamps of the compact-source type shall conform to the requirements in Table 2.

4.2 Double-ended lamps for 6.6 ampere circuits (non-preferred types)

Double-ended lamps commonly used for airport service shall conform to the requirements in Table 3.

NOTE—These lamps are no longer recommended for new installations and are under consideration for deletion.

4.3 Single-ended lamps for 6.6 ampere circuits (preferred types)

Single-ended lamps commonly used for airport service shall conform to the requirements in Table 4.

4.4 Single-ended lamps for 120-130 volt circuits

Single-ended lamps commonly used for general lighting and some lamps used for stage/studio lighting shall conform to the requirements in Table 5.

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4.5 Single-ended lamps for low voltage circuits

Single-ended lamps commonly used for general lighting on low voltage (6-24 volt) circuits shall conform to the requirements of Table 6.

5 Bulb wall temperature

The bulb wall temperature shall be maintained at 250°C (482°F) minimum for proper operation of the halogen cycle.

6 Dimensions

The dimensions of double-ended tubular tungsten-halogen lamps shall conform to those shown in Figure 2. The dimensions of single-ended tungsten-halogen lamps shall conform to those shown in Tables 4,5, and 6.

NOTE—The metric equivalent values for light center length (LCL) have been shown to the nearest millimeter; those for maximum overall length (MOL) and other dimensions have been shown to the nearest tenth of a millimeter. Where rounding was necessary, it was done in accordance with ANSI/IEEE 268.

7 Base alignment (double-ended lamps only)

The base alignment of double-ended lamps shall be checked using a base alignment gauge that conforms to Figure 3. The two ends of the lamps shall seat fully in the gauge. If the lamp does not seat fully in the gauge, it is rejectable.

The purpose of the base alignment gauge described in Figure 3 is to check the alignment of the base and seal at one end of the lamp with respect to the base and seal at the other end of the lamp.

The testing shall be done in the following manner:

With one end of the lamp inserted in the fixed end of the gauge and the lamp held in a horizontal position, the movable portion of the gauge is brought toward the lamp until the free end of the lamp enters the slot of the movable portion.

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8 Information for luminaire design

8.1 Seal temperature

In the lamps covered by this standard, the metal-to-glass seal at the end(s) of the lamp is intended for operation at temperatures not exceeding 350°C (662°F). All equipment in which these lamps are to be used should, therefore, be so designed that seal temperature can be maintained below this limit.

The temperature measurement should be made with the thermocouple junction located over the central part of the metal-foil seal and in direct contact with the outer surface of the bulb material. See ANSI/IEC C78.682 for further information.

8.2 Contact force (double-ended lamps only)

The force exerted on the lamp contacts shall not exceed 7 pounds (3 N).

The minimum force needed to maintain good electrical contact is dependent upon the type of contact materials used. Care should be taken to choose a suitable combination of contact force and contact materials so as to ensure adequate electrical contact under prolonged high-temperature operation.

8.3 Operation position

For linear-source double-ended lamps, the axis of the bulb shall be within 4 degrees of the horizontal. For other types of lamps, there are no operation position restrictions unless otherwise stated by the manufacturer.

8.4 Shielding

To assure maximum safety during handling and use of the subject lamps, the following notices should be observed:

8.4.1 Most tungsten-halogen lamps operate at high temperatures and internal gas pressures above atmospheric pressure. Consequently, a lamp could shatter. Certain lamps may also emit some amount of ultraviolet radiation. Therefore, a suitable protective shield, screening technique, or both, shall be used with the luminaire to protect people and surroundings from both hazards, except when the lamp is:

a. labeled "Low Pressure" tungsten halogen lamp, i.e., a lamp with a working gas pressure below 10^5 Pa (1 bar) as defined in IEC 60357; therefore, no shielding for shattering is required. NOTE: UV protective shield may be required, consult the manufacturer for details.

b. or manufactured with doped quartz (UV shield) therefore no shielding for UV is required. NOTE: A shield for shattering may still be required, consult the manufacturer for details.

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8.4.2 Always read and observe the information contained in the lamp manufacturer's caution notice.

8.5 Base/holder fits for lamps of Table 6 - "General Purpose Lamps"

It should be noted that GY6.35 base/holder fits originally developed for single-ended extra low voltage (6 to 50 volt) lamps shall not be used for mains voltage lamps 51 to 240 volts.

Examples of other such fits for LV only are:
G4, GU4, GX5.3, GU5.3, G6.35 and GU7.

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TABLES AND

FIGURES

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Table 1 – Double-ended lamps: Linear source

Watts	Volts	Bulb (note 1)	Base (note 2)	Approximate length of lighted filament		See dimensional Table in Figure 2
				in	mm	
300	120	T3	RSC	2.2	55.9	Line 1
500	120	T3	RSC	2.2	55.9	Line 1
1000	220	T3	RSC	6.1	155.0	Line 2
1000	240	T3	RSC	6.2	157.5	Line 2
1250	208	T3	RSC	6.0	152.4	Line 2
1500	208	T3	RSC	6.7	170.2	Line 2
1500	220	T3	RSC	6.8	172.7	Line 2
1500	240	T3	RSC	6.7	170.2	Line 2
1500	277	T3	RSC	6.7	170.2	Line 2

NOTES
1 Bulbs may be either clear or frosted.
2 RSC refers to recessed single-contact base, the dimensions of which are given in ANSI C81.61.

Table 2 – Double-ended lamps: Compact source

Watts	Volts	Bulb (note 1)	Base (note 2)	Approximate length of lighted filament		See dimensional Table in Figure 2
				in	mm	
200	120	T3	RSC	0.8	20.3	Line 8
300	120	T4	RSC	0.6	15.2	Line 3
400	120	T4	RSC	0.7	17.8	Line 3
1000	120	T6	RSC	1.1	27.9	Line 7

NOTES
1 Bulbs may be either clear or frosted.
2 RSC refers to recessed single-contact base, the dimensions of which are given in ANSI C81.61.

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Table 3 – Double-ended lamps for 6.6 ampere circuits: Non-preferred types (See 4.2)

Watts	Amperes	Bulb (note 1)	Base (note 2)	Approximate length of lighted filament		See dimensional Table in Figure 2
				in	mm	
45	6.6	T2-1/2	RSC	0.2	5.1	Line 4
65	6.6	T2-1/2	RSC	0.2	5.1	Line 4
100	6.6	T3	RSC	0.4	10.2	Line 5
200	6.6	T4	RSC	0.4	10.2	Line 6

NOTES
1 Bulbs may be either clear or frosted.
2 RSC refers to recessed single-contact base, the dimensions of which are given in ANSI C81.61.
3 These lamps are commonly used for airport service.

Table 4 – Single-ended Lamps for 6.6 ampere circuits: Preferred Types

Watts	Bulb (Note 1)	Base (Note 2)	LCL (Note 3)		Filament Configuration	MOL	
			in	mm		in	mm
45	T4	2-Pin prefocus (GZ9.5)	1-17/32	39	C-6	2-1/2	63.5
120	T4	2-Pin prefocus (GZ9.5)	1-17/32	39	C-6	2-1/2	63.5
200	T4	2-Pin prefocus (GZ9.5)	1-17/32	39	CC-6	2-1/2	63.5

NOTES
1 The bulb may be either clear or frosted.
2 The 2-pin prefocus base is described in ANSI C81.61. The designation assigned by the International Electrotechnical Commission (IEC) is GZ9.5.
3 For information on the measurement of light center length (LCL), see Clause 3.
4 These lamp are the preferred types commonly used for airport service.

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Table 5 – Single-ended lamps for 120- and 130-volt circuits

Watts	Bulb (Note 1)	Base (Notes 2,3)	LCL mm	Filament configuration	MOL mm	Photo lamp designation
100	T4	Minican (E11)	35	CC-2V	71.4	ESN ETE
100	T4	E11	35	CC-8	71.4	-
100	T4	DC BAY (BA15d)	35	CC-2V	61.9	ESR ETD
100	T4	BA15d	35	CC-8	61.9	-
150	T4	E11	35	CC-2V	71.4	ESL
150	T4	E11	35	CC-8	76.2	ETG ETH
150	T4	BA15d	35	CC-2V	63.5	ESP
150	T4	BA15d	35	CC-8	63.5	ETC ETF
250	T4	E11	41	CC-8	80.2	EHT ESM
250	T4	BA15d	41	CC-8	79.4	ETB ESS
400	T4	E11	51	CC-8	92.1	-
500	T4	E11	51	CC-8	95.3	EVR EYV EYW EYX
500	T4	BA15d	51	CC-8	90.5	-

NOTES

1 The bulb may be either clear or frosted.

2 The minican base is described in ANSI C81.61. The designation assigned by the International Electrotechnical Commission (IEC) is E11.

3 DC BAY is an abbreviation for the double contact bayonet base described in ANSI C81.61. The designation assigned by the International Electrotechnical Commission (IEC) is BA15d.

4 For information on the measurement of light center length (LCL), see clause 3.

5 These lamps are commonly used for general lighting service and stage/studio applications.

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Table 6 – General purpose tungsten-halogen bi-pin lamp with GY6.35 Base

Watts	Rated Voltage*	Bulb	Base	**LCL mm	Filament Configuration	MOL mm
20	6 12 24	T4	GY6.35	30	C6, C8	44
35	6 12 24	T4	GY6.35	30	C6	44
50	12 24	T4	GY6.35	30	C6	44
75	12 24	T4	GY6.35	30	C6	44
100	12 24	T4	GY6.35	30	C6	44

Conditions of Use:

Operating position: any
Permissible minimum bulb temperature: 250°C (at nominal supply voltages)
Permissible maximum pinch temperature: 350°C (a value higher for 100W is under consideration)
Heat sinks should not apply bending stresses to lamp pins.
Free space of the bulb diameter 15mm, height 27mm
Free space of the pinch width 15mm, thickness 7.5mm

*Individual voltages must be selected.
**LCL is measured from the bottom of the lamp base pins to the filaments as shown in Figure #1.

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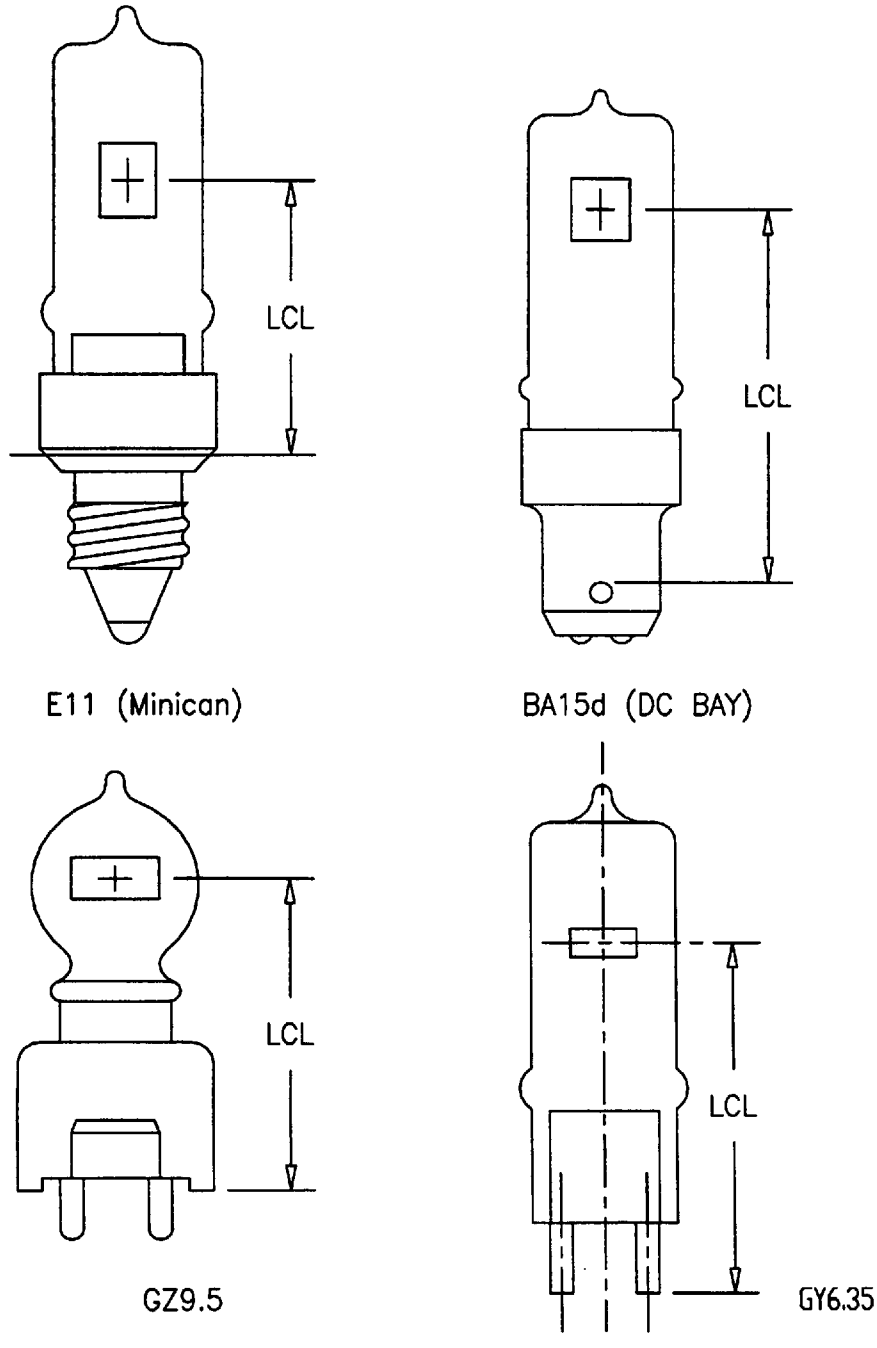

Figure 1 – Measurement of light center length

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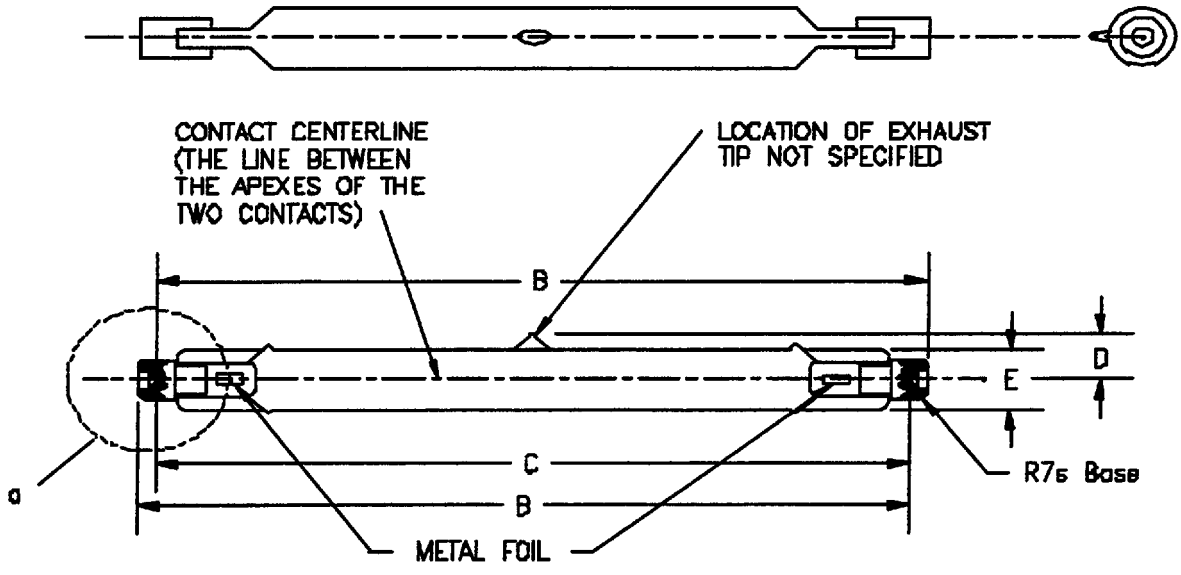

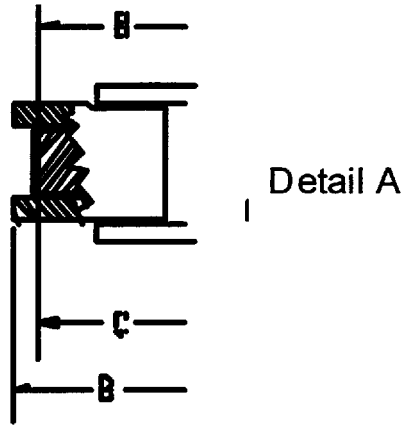

NOTE—The maximum overall length is to be based on the maximum bottom-of-contact to bottom-of-contact (C max) plus a constant of 3.6mm (2 x 1.8 mm)

Figure 2 – Double-ended lamp dimensions

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Reference	Standard Dimensions* in				
	C_{min}	C_{max}	B_{max}	D_{max}	E_{max}
Line 1	4.432	4.558	4.630	0.402	0.453
Line 2	9.807	9.933	10.004	0.402	0.453
Line 3	2.866	2.991	3.063	0.465	0.591
Line 4	1.807	1.933	2.004	0.374	0.346
Line 5	2.055	2.181	2.252	0.402	0.453
Line 6	2.307	2.433	2.504	0.465	0.591
Line 7	5.370	5.496	5.567	0.650	0.787
Line 8	2.866	2.992	3.063	0.402	0.453
Line 9	2.055	2.181	2.252	0.421	0.492
Line 10	2.866	2.992	3.063	0.402	0.453
Line 11	3.465	3.591	3.661	0.465	0.591
Line12	3.465	3.591	3.661	0.531	0.689
Line 13	4.000	4.200	4.260	0.640	0.750
Line 14	4.000	4.126	4.197	0.650	0.787
Line 15	4.400	4.559	4.630	0.640	0.750
Line 16	4.941	5.067	5.138	0.465	0.591
Line 17	5.370	5.496	5.567	0.787	1.063
Line 18	6.327	6.453	6.524	0.421	0.492
Line 19	6.327	6.453	6.524	0.465	0.591
Line 20	6.937	7.063	7.142	0.421	0.492
Line 21	7.248	7.374	7.445	0.402	0.453

*Metric values see following page.

Figure 2 *Continued* – Double-ended Lamp dimensions in inches

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Reference	Standard Dimensions mm				
	C_{min}	C_{max}	B_{max}	D_{max}	E_{max}
Line 1	112.6	115.8	117.6	10.2	11.5
Line 2	249.1	252.3	254.1	10.2	11.5
Line 3	72.8	76.0	77.8	11.8	15.0
Line 4	45.9	49.1	50.9	9.5	8.8
Line 5	52.2	55.4	57.2	10.2	11.5
Line 6	58.6	61.8	63.6	11.8	15.0
Line 7	136.4	139.6	141.4	16.5	20.0
Line 8	72.8	76.0	77.8	10.2	11.5
Line 9	52.2	55.4	57.2	10.7	12.5
Line 10	72.8	76.0	77.8	10.2	11.5
Line 11	88.0	91.2	93.0	11.8	15.0
Line 12	88.0	91.2	93.0	13.5	17.5
Line 13	101.6	106.7	108.2	16.3	19.0
Line 14	101.6	104.8	106.6	16.5	20.0
Line 15	111.8	115.8	117.6	16.3	19.0
Line 16	125.5	128.7	130.5	11.8	15.0
Line 17	136.4	139.6	141.4	20.0	27.0
Line 18	160.7	163.9	165.7	10.7	12.5
Line 19	160.7	163.9	165.7	11.8	15.0
Line 20	176.2	179.4	181.4	10.7	12.5
Line 21	184.1	187.3	189.1	10.2	11.5

NOTE—The references Line 4, Line 5, and Line 6 in the above tables apply to non-preferred types. See 4.2 .

Figure 2 *Continued* – Double-ended lamp dimensions in millimeters

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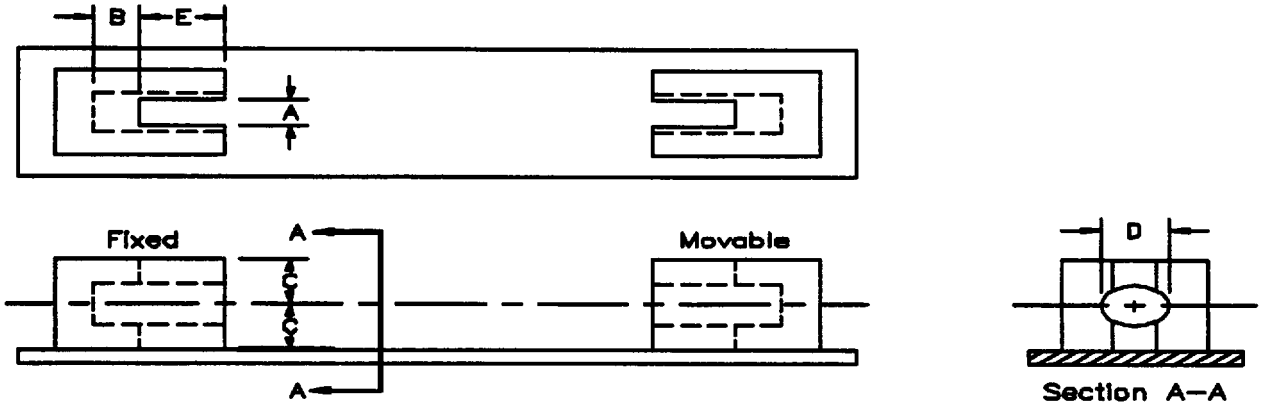

Reference	Dimension in	Tolerance in	Nearest metric equivalent mm
A (T2-1/2)	0.200	+0.001	5.08
(T3)	0.225	+0.001	5.72
(T4)	0.240	+0.001	6.10
(T5)	0.260	+0.001	6.60
(T6)	0.370	+0.001	9.40
B (T2-1/2-T5)	0.165	-0.003	4.19
(T6)	0.245	-0.003	6.23
C (T2-1/2-T6)	0.500	±0.015	12.70
D	0.320	+0.001	8.13
E	0.500	-0.005	12.70

Figure 3 – RSC base alignment gauge

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ANNEXES

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Annex A
(informative)
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ANNEX B
(informative)
Lengths of double-ended R7s and RX7s photo lamps.

Photo Lamp Designations	Watts	Volts	Bulb	See Dimensional Table in Figure 2
BRH	1000	120	T5	Line 12
DDN	200	20	T3	Line 5
DVV	1500	120	T8	Line 17
DVX	1500	165	T3.25	Line 20
DWT	1000	120	T6	Line 7
DWY	650	120	T4	Line 3
DWZ	375	30	T4	Line 3
DXM	250	30	T3.25	Line 9
DXN	1000	250	T5	Line 12
DXV	800	230	T4	Line 3
DXW	1000	120	T4	Line 12
DXX	800	240	T4	Line 3
DYA	1000	120	T5	Line 13
DYN	1000	120	T6	Line 14
DZX	1000	225	T3	Line 21
EHM	300	120	T3	Line 1
EHP	300	120	T3	Line 3
EHR	400	120	T4	Line 3
EHZ	300	120	T3	Line 1
EJG	750	120	T3	Line 1
ELJ	1050	120	T5	Line 15
ELP	600	225	T4	Line 3
ELW	1000	225	T5	Line 12
EMD	750	120	T3	Line 1
EME	800	240	T3	Line 1
EMF	800	240	T3	Line 1
EST	1000	120	T5	Line 12
ESZ	1000	225	T3	Line 21
ETT	1000	120	T5	Line 12
EVG	800	170	T4	Line 3
EWA	650	245	T4	Line 3
EWB	650	115	T4	Line 3
EWC	650	225	T4	Line 3
EWP	420	90	T4	Line 3
FAD	650	120	T4	Line 3

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ANSI C78.260-1998
Revision of ANSI C78.260-1990
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Photo Lamp Designations	Watts	Volts	Bulb	See Dimensional Table in Figure 2
FAL	420	120	T4	Line 6
FBX	650	120	T4	Line 3
FBY	1000	120	T5	Line 12
FBZ	1000	120	T5	Line 12
FCA	625	120	T4	Line 3
FCB	600	120	T4	Line 11
FCK	170	20	T3	Line 5
FCL	500	120	T3	Line 1
FCM	1000	120	T3	Line 1
FCZ	500	120	T3	Line 1
FDA	400	120	T4	Line 3
FDB	1500	120	T4	Line 19
FDF	500	120	T3	Line 1
FDN	500	120	T3	Line 1
FEA	600	240	T4	Line 11
FEB	600	25	T4	Line 11
FER	1000	120	T4	Line 7
FEX*	2000	240	T8	Line 17
FEY	2000	120	T8	Line 17
FFJ	600	120	T4	Line 6
FFM	420	120	T4	Line 3
FFT	1000	120	T3.25	Line 18
FFW	2000	120	T4	Line 19
FGT	1500	120	T4	Line 19
FGV	1000	120	T3	Line 18
FGY	120	20	T4	Line 3
FHK	500	225	T3	Line 10
FHM	1000	120	T3	Line 1
FHN	500	245	T3	Line 10
FHP	500	115	T3	Line 10
FWF	350	120	T3	Line 1
GDA	500	220-230	4	Line 16

*RX7s based lamp.

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First Edition
December 1998