NEMA Standards Publication

ANSI C78.260-2002 (S2018)

American National Standard for Electric Lamps— Tubular Tungsten-Halogen Lamps, Physical Characteristics

National Electrical Manufacturers Association

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn. VA 22209
www.NEMA.org

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Stabilized Maintenance of ANSI C78.260-2002

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Secretariat:

National Electrical Manufacturers Association

Approved: February 15, 2018

American National Standards Institute, Inc.
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Published by

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

Printed in the United States of America

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Foreword (This foreword is not part of American National Standard C78.260-2002).

Suggestions for improvement of this standard should be submitted to the Secretariat C78, American National Lighting Group of the National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209. This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C78, and its Work Group C78-1. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

Information concerning the approval of this standard is based on the documents listed in the table below:

Amendment / Change	CDV	RV
Third Edition	78(1)/4076	78(1)/4077

At the time, it approved this standard; the ASC 78 Committee had the following members:

Al Rousseau, Chair, C78
Al Rousseau, Technical Coordinator
Randolph N. Roy, Secretariat
Ken Denton, Consulting Editor

Organization Represented:	Name of Representative:
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	Selmar Dorsey (alt)
GE Lighting Systems.....	Rebecca Lancaster
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At the time it published this standard, the C78-1 Sub-Committee had the following members:

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(This language is not part of the American National Standard.)

This Standard is being maintained under the stabilized maintenance option. Proposals for modification or improvement of this Standard are welcome. They should be sent to the National Electrical Manufacturers Association, 1300 N 17th Street, Suite 900, Arlington, VA 22209 or sent via the NEMA website (http://www.nema.org).

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 C81.61-2017, *American National Standard for Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps*

ANSI Z535.1-2017, *American National Standard for Safety Colors*

ANSI Z535.3-2011 (R2017**)**, *American National Standard for Criteria for Safety Symbols*

ANSI Z535.4-2011 (R2017), *American National Standard for Product Safety Signs and Labels*

ANSI/IEC C78.682-1997 (2016), American National Standard for Electric Lamps—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.

3.3 G4

The light center length (LCL) and the maximum overall length is measured from the bottom of the base pins.

3.4 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.

3.5 GY6.35

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

3.6 G9

The light center length (LCL) of G9 based lamps is measured from the bottom of the press to the center of the filament geometry as shown in Figure 1.