American National Standard
For Incandescent Lamps—
A, G, PS, and Similar Shapes with E39 Mogul Screw Bases

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.
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Foreword (This foreword is not part of American National Standard C78.22-1995)

This American National Standard, Incandescent Lamps—A, G, PS, and Similar Shapes with E39 Mogul Screw Bases, C78.22-1995 sets forth the physical and electrical characteristics of the group of incandescent lamps that have A, G, PS, and similar bulb shapes with E39 Mogul screw (single- or double-contact) bases.

Suggestions for improvement of this standard will be welcome. They should be sent to the Secretary of Committee C78. National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.

This standard was processed and approved for submittal to ANSI by C78 Accredited Standards Committee on Electric Lamps, and C78-1, Incandescent Lamps. Committee approval of the standard does not necessarily imply that all committee members voted for its approval.

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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).
Part I
General Information
1 Scope

This standard sets forth the physical and electrical characteristics of the group of incandescent lamps that have A, G, PS, and similar bulb shapes with E39 mogul screw (single- or double-contact) bases. Only clear, inside frost, and white bulb finishes are acknowledged. Excluded from coverage are tungsten-halogen lamps and projection lamps. In addition to common-line voltage lamps, listed in Table 1, a group of series burning lamps rated at constant current are covered in Table 2.

Other groups of incandescent lamps are covered in the following related standards:


ANSI C78.21-2011 (R2016), American National Standard for Electric Lamps—Incandescent Lamps—PAR and R Shapes

ANSI C78.23-1995 (S2018), American National Standard for Electric Lamps—Incandescent Lamps—Miscellaneous Types

At the time of issuance of this standard, there was no comparable standard published by the International Electrotechnical Commission (IEC).

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


IES LM45, IES Approved Method for Electrical and Photometric Measurements of General Service Incandescent Filament Lamps

IES LM54, IES Guide to Lamp Seasoning'

SR 30a, Procedure for Use in Preparation of Lamp Space Drawing

1 Available from the Illuminating Engineering Society, 120 Wall Street, 17th Floor, New York, NY 10005-4001.

2 Available from the C78 Secretariat, c/o National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.
3 Definitions and Abbreviations

In addition to bulb and base codes that are defined in the standards listed in Section 2, some terms common to the industry are utilized in this standard.

3.1 MOL (Maximum Overall Length): The distance along the lamp's axis from the eyelet solder to the top of the bulb.

3.2 LCL (Light Center Length): The distance from the reference plane (eyelet solder for screw bases) to the center of the light-emitting area of the lamp.

3.3 Class: A grouping of like lamps having the same rated wattage, bulb shape, base, MOL, bulb finish, and filament type, including two or more voltage ratings within a voltage range.

Note: Each line item in Tables 1 and 2 is a "class."

3.4 Voltage Range: A series of rated voltages related to commonly available supply lines.

Note: A footnote to Tables 1 and 2 lists several common voltage ranges applying to classes of lamps in this standard.

3.5 Rated Wattage: The wattage marked on the lamp.

3.6 Rated Voltage: The voltage marked on the lamp or declared by the manufacturer.

Note: If lamps are marked with a range voltage, it shall be interpreted that they are appropriate for use on any line voltage within that range. Consult manufacturer's catalog to determine design voltage.

3.7 Rated Lumens: The lumen value marked on the lamp or declared by the manufacturer.

3.8 Rated Current: The current value marked on the lamp, if necessary.

3.9 Base Temperature Rise: The surface temperature rise (above ambient) of a standard test lampholder fitted to the lamp when measured in accordance with the standard method. See Section 8 for methods of measurement.

3.10 Service: The field of most common application for a given lighting source. Service, as used in this standard, is not necessarily the only application.

4 Lamp Designations

This standard does not place any control over lamp designations. Incandescent lamps are generally designated by wattage and voltage ratings. Additional codes may be applied by the lamp manufacturer. See the lamp manufacturer's catalog for detailed information.

5 Bulb Designations

Bulb designations used in this standard are defined in ANSI C79.1. Since the traditional eighth-inch sizes have long been utilized in some lamp designations, they are used in this standard. Their metric versions are shown in parentheses.

3 There is no attempt to identify or classify filament type in this standard.
6 Bulb Finish

Only lamps with clear, inside frost or translucent white bulb finishes are considered in this standard. Silver bowl, enamel, transparent, and other special coatings are not covered.

7 Lamp Space Drawings

For each bulb- base- MOL category, the lamp space drawings in Part III of this standard show the maximum limits of the space that may be occupied by any part of the bulb. A typical bulb shape is shown, as a dashed line, within that maximum space. The space shown shall accommodate the longest and shortest lamps with maximum bowl and neck diameters and maximum bulb eccentricity. These drawings were prepared in accordance with SR30a.

The following general conditions apply to the construction of these space drawings:

a. Straight lines are used as much as possible to simplify the space outlines. All compromises with the actual space are in excess of the actual space required.

b. All excursions of a lamp bulb are shown relative to a fixed position base.

c. Bulb eccentricity with respect to the base axis is a combination of allowances for angular tilt (skewness) and lateral displacement (true eccentricity). An eccentricity angle of 3° applies generally to incandescent lamps unless special applications require tighter limits.

d. The base contact-making gauge for each type of base controls the space near the rim of the base in the base-to-neck transition zone.

e. All dimensions are in millimeters unless otherwise specified.

f. The figure numbers shown in Tables 1 and 2 under the column "Lamp Space Drawing" relate directly to the former American National Standard for that category. For instance, Figure C78.22-214 was derived from the former standard ANSI C78.214-1949.

8 Methods of Measurement

8.1 The method of measuring base temperature rise shall be as described in ANSI C78.25.

8.2 A recommended method of electrical measurement of lamps can be found in IES LM45.

9 Electrical Characteristics

The values of lamp voltage, current, and wattage shown in Part II are those nominal values that apply after the lamps have been seasoned. (See IES LM54 for guidelines on lamp seasoning.)

10 Requirements

10.1 Screw-shell type bases, including the E39 mogul screw and E39d double-contact mogul screw and special gauges, shall comply with C81.61 and ANSI C81.63.

10.2 Individual lamps shall satisfy the limits for MOL and LCL that apply to their lamp class as shown in Tables 1 and 2.
10.3 All finished lamps shall have controlled dimensions, bulb size, and eccentricity such that they occupy a space within the dimensions of the appropriate lamp space drawings in Part III.

10.4 The average base temperature rise of a sample of lamps, of a specific rated voltage, shall not be greater than the limit shown for its lamp class in Tables 1 and 2.

11 Information for Luminaire Design

11.1 Burning Position
Certain incandescent lamps are restricted as to positioning during operation or "burning position". Lamps for three-way service, for example, may be designed for base-down burning only. Other limitations on burning position may apply, and these are noted in the column entitled "Potential Hazard Notation" in Tables 1 and 2. Misapplications of certain lamps could cause overheating of a luminaire.

11.2 Protection
The lamps listed in this standard are intended for indoor applications or use within fully enclosed luminaires of the proper rating.
Part II
Lamp Classes
### Table 1

**Standard Lamps With A,G, PS, and Similar Bulbs With E39 Mogul Screw or E39d Double-Contact Mogul Screw Bases**

<table>
<thead>
<tr>
<th>Line</th>
<th>Rated Wattage or Current</th>
<th>Rated Wattage (Note 1)</th>
<th>Bulb (Note 2)</th>
<th>Base (Note 2)</th>
<th>Lamp Maximum Overall Length (MOL) mm</th>
<th>Light Center Length (LCL) mm</th>
<th>Lamp Space Drawing</th>
<th>Max. Base Temp. Rise K (Note 4)</th>
<th>Service</th>
<th>Potential Hazard Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50-100-150</td>
<td>A</td>
<td>PS25(PS79)</td>
<td>E39d</td>
<td>173</td>
<td>6-13/16</td>
<td>—</td>
<td>—</td>
<td>Three-way</td>
<td>Note 6</td>
</tr>
<tr>
<td>2</td>
<td>100-200-300</td>
<td>A</td>
<td>PS25(PS79)</td>
<td>E39d</td>
<td>173</td>
<td>6-13/16</td>
<td>—</td>
<td>—</td>
<td>Three-way</td>
<td>Note 6</td>
</tr>
<tr>
<td>3</td>
<td>300</td>
<td>A</td>
<td>PS30(PS95)</td>
<td>E39</td>
<td>223.8</td>
<td>8-13/16</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 7</td>
</tr>
<tr>
<td>4</td>
<td>300</td>
<td>A</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>5</td>
<td>300</td>
<td>D</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>6</td>
<td>301</td>
<td>A</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 7</td>
</tr>
<tr>
<td>7</td>
<td>500</td>
<td>A</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>8</td>
<td>500</td>
<td>A</td>
<td>PS40(PS125)</td>
<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>9</td>
<td>500</td>
<td>D</td>
<td>PS40(PS125)</td>
<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>177.8</td>
<td>7</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>10</td>
<td>500</td>
<td>A</td>
<td>G40(G127)</td>
<td>E39</td>
<td>179.4</td>
<td>7-1/16</td>
<td>108.0</td>
<td>4-1/4</td>
<td>Spotlight/Floodlight</td>
<td>Note 7</td>
</tr>
<tr>
<td>11</td>
<td>750</td>
<td>A</td>
<td>PS52(PS165)</td>
<td>E39</td>
<td>331.8</td>
<td>13-1/16</td>
<td>241.3</td>
<td>9-1/2</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>12</td>
<td>750</td>
<td>D</td>
<td>PS52(PS165)</td>
<td>E39</td>
<td>331.8</td>
<td>13-1/16</td>
<td>241.3</td>
<td>9-1/2</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>13</td>
<td>1000</td>
<td>A</td>
<td>PS52(PS165)</td>
<td>E39</td>
<td>331.8</td>
<td>13-1/16</td>
<td>241.3</td>
<td>9-1/2</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>14</td>
<td>1000</td>
<td>D</td>
<td>PS52(PS165)</td>
<td>E39</td>
<td>331.8</td>
<td>13-1/16</td>
<td>241.3</td>
<td>9-1/2</td>
<td>General</td>
<td>Note 5</td>
</tr>
<tr>
<td>15</td>
<td>1000</td>
<td>A</td>
<td>G40(G127)</td>
<td>E39</td>
<td>179.4</td>
<td>7-1/16</td>
<td>108.0</td>
<td>4-1/4</td>
<td>Spotlight/Floodlight</td>
<td>Note 7</td>
</tr>
<tr>
<td>16</td>
<td>1000</td>
<td>A</td>
<td>G40(G127)</td>
<td>E39</td>
<td>203.2</td>
<td>8</td>
<td>133.4</td>
<td>5-1/4</td>
<td>Spotlight/Floodlight</td>
<td>Note 5</td>
</tr>
<tr>
<td>17</td>
<td>1500</td>
<td>A</td>
<td>PS52(PS165)</td>
<td>E39</td>
<td>331.8</td>
<td>13-1/16</td>
<td>241.3</td>
<td>9-1/2</td>
<td>General</td>
<td>Note 5</td>
</tr>
</tbody>
</table>

1. Common lamp voltage ratings for voltage codes are as follows:
   A = 115-125V, 120V, 125V, 125-130V, etc.
   D = 220V, 220-230V, 240V, 250V, etc.
2. Standard bulb finishes are clear, inside frost, and translucent white
3. Common American terminology for base codes is as follows:
   E39—Mogul screw base
   E39d—Double-contact mogul screw base
4. See Clause 3.9 and Clause 8.1
5. Lamps with wattage ratings higher than 750W must be used in a lampholder rated at 1500W or higher. See ANSI/UL 496-1986.
6. Base-down burning only.
7. Base-down to horizontal burning.

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Table 2 – Street series lamps with PS bulbs and E39 mogul screw bases

<table>
<thead>
<tr>
<th>Line No.</th>
<th>Rated Lumens</th>
<th>Rated Current (Ampères)</th>
<th>Bulb (Note 1)</th>
<th>Bulb (Note 2)</th>
<th>Lamp Maximum Overall Length (MOL)</th>
<th>Light Center Length (LCL)</th>
<th>Lamp Space Drawings</th>
<th>Potential Hazard Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,000</td>
<td>6.6</td>
<td>PS25(PS79)</td>
<td>E39</td>
<td>181</td>
<td>7-1/8</td>
<td>136.5</td>
<td>5-3/8</td>
</tr>
<tr>
<td>2</td>
<td>2,500</td>
<td>6.6</td>
<td>PS25(PS79)</td>
<td>E39</td>
<td>181</td>
<td>7-1/8</td>
<td>136.5</td>
<td>5-3/8</td>
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<tr>
<td>3</td>
<td>2,500</td>
<td>6.6</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
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<td>4</td>
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<td>E39</td>
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<td>9-3/8</td>
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<tr>
<td>5</td>
<td>4,000</td>
<td>15</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>177.8</td>
<td>7</td>
</tr>
<tr>
<td>6</td>
<td>4,000</td>
<td>15</td>
<td>PS35(PS110)</td>
<td>E39</td>
<td>238.2</td>
<td>9-3/8</td>
<td>158.8</td>
<td>6-1/4</td>
</tr>
<tr>
<td>7</td>
<td>6,000</td>
<td>6.6</td>
<td>PS40(PS125)</td>
<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>177.8</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>6,000</td>
<td>20</td>
<td>PS40(PS125)</td>
<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>177.8</td>
<td>7</td>
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<tr>
<td>9</td>
<td>6,000</td>
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<tr>
<td>10</td>
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<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>177.8</td>
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<tr>
<td>11</td>
<td>10,000</td>
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<td>E39</td>
<td>247.7</td>
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<td>E39</td>
<td>247.7</td>
<td>9-3/4</td>
<td>158.8</td>
<td>6-1/4</td>
</tr>
</tbody>
</table>

NOTES
1. Standard bulb finishes are clear or inside frost.
2. The common American terminology for base code E39 is mogul screw base.
Figure C78.22-214

Bulb: PS25 (PS79)
Base: Mogul screw, E39/41
Overall length: 173.0 (6-13/16 in.) max
166.7 (6-9/16 in.) min
Eccentricity: 3°

NOTE—Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-222

Bulb: PS30 (PS95)
Base: Mogul screw, E39/41
Overall length: 223.8 (8-13/16 in.) max
211.1 (8-5/16 in.) min
Eccentricity: 3°

NOTE—Dimensions are in millimeters, unless otherwise specified.
Bulb: PS35 (PS110)
Base: Mogul screw, E39/41
Overall length: 238.2 (9-3/8 in.) max
225.4 (8-7/8 in.) min
Eccentricity: 3°

NOTE—Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-223

Bulb: PS40 (PS125)
Base: Mogul screw, E39/41
Overall length: 247.7 (9-3/4 in.) max
230.9 (9-3/32 in.) min
Eccentricity: 3°

NOTE—Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-224
ANSI C78.22-1985 (R2018)

Figure C78.22-225

Bulb: PS52 (PS165)
Base: Mogul screw, E39/41
Overall length: 331.8 (13-1/16 in.) max
313.5 (12-11/32 in.) min
Eccentricity: 3°

NOTES
1 Some lamps may not conform to the base gauge for testing contact-making in accordance with ANSI C61.63
2 Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-234

Bulb: G40 (G127)
Base: Mogul screw, E39/41
Overall length: 179.4 (7-1/16 in.) max
165.1 (6-1/2 in.) min
Eccentricity: 3°

NOTES
1 Some lamps may not conform to the base gauge for testing contact-making in accordance with ANSI C61.63
2 Dimensions are in millimeters, unless otherwise specified.

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Bulb: G40 (G127)
Base: Mogul screw, E39/41
Overall length: 203.2 (8 in.) max
188.9 (7-7/16 in.) min
Eccentricity: 3°

NOTES
1 Some lamps may not conform to the base gauge for testing contact-making in accordance with ANSI C61.63
2 Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-235

Bulb: PS25 (PS79)
Base: Mogul screw, E39/41
Overall length: 161.0 (7-1/8 in.) max
169.9 (6-11/16 in.) min
Eccentricity: 3°

NOTES
1 Some lamps may not conform to the base gauge for testing contact-making in accordance with ANSI C61.63
2 Dimensions are in millimeters, unless otherwise specified.

Figure C78.22-245
Part IV
Annexes
The revised standard ANSI C78.22-1995 contains information that was shown in the formerly designated American National Standards as follows:

<table>
<thead>
<tr>
<th>Title</th>
<th>Former Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>General-Service Incandescent Lamps for 120-, 125-, and 130-Volt Circuits</td>
<td>ANSI C78.100-1976(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps - Street Railway Service</td>
<td>ANSI C78.103-1976(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps - Spotlight and Floodlight Service, 120, 125, and 130 Volts</td>
<td>ANSI C78.105-1976(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps - Street Series Service</td>
<td>ANSI C78.214-1949(R1981)</td>
</tr>
<tr>
<td>PS-30 Bulb, Mogul Screw Base Incandescent Lamp</td>
<td>ANSI C78.222-1971(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps, PS-35 Bulb, Mogul Screw Base</td>
<td>ANSI C78.223-1949(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps, PS-40 Bulb, Mogul Screw Base</td>
<td>ANSI C78.224-1949(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps, PS-52 Bulb, Mogul Screw Base</td>
<td>ANSI C78.225-1949(R1981)</td>
</tr>
<tr>
<td>Incandescent Lamps, G-40 Bulb, Mogul Screw Base (Overall Length - Maximum 7-1/2 Inches, Minimum 6-1/2 Inches)</td>
<td>ANSI C78.234-1949(1981)</td>
</tr>
<tr>
<td>Incandescent Lamps, G-40 Bulb, Mogul Screw Base (Overall Length - Maximum 8 Inches, Minimum 7-7/16 Inches)</td>
<td>ANSI C78.235-1949(1981)</td>
</tr>
</tbody>
</table>
ANNEX B
(Informative)
Bibliography

The following standards can be used in conjunction with this standard:

ANSIC81.62-2017, American National Standard for Electrical Lamp Holders

ANSI/UL 496-1986, Edison-Base Lampholders

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