



ANSI C81.61-2009 (R2014)

American National
Standard for Electrical
Lamp Bases -
Specifications for Bases
(Caps) for Electric Lamps





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*American National Standard for
Electrical Lamp Bases—
Specifications for Bases (Caps) for Electric Lamps*

Secretariat

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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Foreword for American National Standard ANSI_C81.61-2009

(This foreword is not part of American National Standard ANSI C81.61-2009.)

In 1990 and 1991 the American National Standards (ANS) for lamp bases, lampholders and gauges were split into three separate standards to line up with the IEC format. ANSI C81.61, ANS for Electric Lamp Bases paralleled IEC 60061-1; ANSI C81.62, *ANS for Lampholders for Electric Lamps* paralleled IEC 60061-2 and ANSI C81.63, Gauges for Electric Lamp Bases and Lampholders paralleled IEC 60061-3. Also a fourth standard, ANSI C81.64 Guidelines for Electrical Lamp Bases, Lampholders and Gauges was published to parallel IEC 60061-4 in 1993.

In 1996, the first IEC data sheets were adopted "as is" as Nationally Acknowledged International Standards and published as Supplement g to the existing C81.61, 62 and 63 standards. Now many more (if not most) ANSI base standard sheets are IEC sheets adopted as ANSI standards.

In 2003 a revision and consolidation of ANSI C81.61 was issued to include, first, a reference to all IEC base (cap) standard sheets adopted as ANSI standards. Second, standard sheets for a small number of bases used mainly in North America or not harmonized with IEC are found in Part II. Part III contained a few United States deviations to the IEC standard sheets, which had been adopted as Nationally Acknowledged International Standards as published in IEC 60061-1. Part IV contained an informative annex on first versus third angle projection and related standards.

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PART I---- General Information and Requirements

1. Scope

This standard sets forth the specifications for bases (caps) used on electric lamps.

1.1 Important Patent Disclaimer

It is possible that some of the elements of this document may be the subject of patent rights. When this document was approved for publication, ANSLG did not know of any patent applications, patents pending, or existing patents. ANSLG shall not be held responsible for identifying any or all such patent rights.

2. Normative references

The following publications 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 publications indicated below.

ANSI_ANSLG C81.61-2009 *Lampholders for Electric Lamps*

ANSI_ANSLG C81.63-2009 *Gauges for Bases (Caps) and Lampholders for Electric Lamps*

IEC 60061, *Lamp caps and holders together with gauges for the control of interchangeability and safety* Part 1: Caps IEC 60061-1 Ed. 3 including Amendment 39-2007
 Part 2: Lampholders IEC 60061-2 Ed. 3 including Amendment 36-2007
 Part 3: Gauges IEC 60061-3 Ed. 3 including Amendment 38-2007

3. General information

Two types of base standard sheets are identified in this standard, and both are listed in Table 1, *ANSI and IEC Lamp Base Standard Sheets*. All base types are listed in color to indicate their typical applications: **Blue for automotive and miniature**; **green for general lighting service including common Edison screw base**; **red for fluorescent**; and black for miscellaneous including specialty, photo, projection, and studio stage applications.

For some bases either no international standard exists or the international standard is not acceptable at this time. For such bases an ANSI standard sheet is included. These standard sheets are identified in Table 1-- ANSI and IEC Lamp Base Standard Sheets under the column heading "ANSI C81.61". These Standard Sheets are found in Part I.