



ANSI C81.62-2019

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# American National Standard for Electric Lampholders



**National Electrical Manufacturers Association**  
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*American National Standard for  
Electric Lampholders*

Secretariat:

**National Electrical Manufacturers Association**

Approved: March 22, 2019

**American National Standards Institute, Inc.**

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# American National Standard

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**Foreword** (This foreword is not part of American National Standard C81.62.)

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 C81.62 was issued to include, first, a reference to IEC lampholder standard sheets adopted as ANSI standards. Second, standard sheets for a small number of lampholders used mainly in North America or not harmonized with IEC were included in Part II. Part III contained any United States deviations to the IEC standard sheets, which had been adopted as Nationally Acknowledged International Standards as published in IEC 60061-2. Part IV contained an informative annex on first versus third angle projection and related standards.

## CONTENTS

Foreword		ii
<b>Part I</b>	<b>General Information and Requirements</b>	<b>1</b>
1	Scope	1
2	Normative references	1
3	General Information	1
Table 1	ANSI and IEC Lamp Base (Cap) Standard Sheets	3
<b>Part II</b>	<b>ANSI Standard Sheets For Bases (Caps) For Electric Lamps</b>	<b>9</b>
<b>Part III</b>	<b>United States Deviations to IEC Harmonized Electric Lamp Base Standard Sheets</b>	<b>76</b>
<b>Annexes</b>		
Annex A	Contrast of Projection Methods on Engineering Drawings	77
Annex B	Related Standards	78

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## PART I

### General Information and Requirements

#### 1 Scope

This standard sets forth the specifications for lampholders for electric lamps.

##### 1.1 Important Patent Disclaimer

At the time of publication, it is possible that some of the elements of this document may be the subject of patent rights. When this standard was approved for publication, the National Electrical Manufacturers Association (NEMA) did not know of any patent applications, patents pending, or existing patents. NEMA 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 C81.61	<i>Specifications for Bases (Caps) for Electric Lamps</i>
ANSI C81.63	<i>Gauges for Electric Lamp Bases and Lampholders</i>
IEC 60061	<i>Lamp caps and holders together with gauges for the control of interchangeability and safety:</i> <i>Part 1: Caps IEC 60061-1</i> <i>Part 2: Lampholders IEC 60061-2</i> <i>Part 3: Gauges IEC 60061-3</i>
UL 496	<i>Edison Base Lampholders</i>
UL 542	<i>Lampholders, Starters, and Starter Holders for Fluorescent Lamps</i>

#### 3 General Information

Two types of lampholder standard sheets are identified in this standard, and both are listed in Table 1, *ANSI and IEC Lampholder Standard Sheets*. All lampholder types are listed in color to indicate their application: **Blue for automotive and miniature**; **green for general lighting service including common Edison screw lampholders**; **red for fluorescent**; and black for miscellaneous.

For some lampholders either no international standard exists or the international standard is not acceptable at this time. For such lampholders an ANSI standard sheet is included. These standard sheets are identified in Table 1—ANSI and IEC Lampholder Standard Sheets under the column heading "ANSI C81.62". These Standard Sheets are found in Part II.