



ANSI C78.50-2016

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American National  
Standard for  
Electric Lamps—  
Assigned LED  
Lamp Codes



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Assigned LED Lamp Codes*

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 ANSI C78.50.-2016.)

This is a revision of standard C78.50-2014.

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

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## Part I General Information

### 1 Scope

This standard provides physical and electrical characteristics of the group of integrally ballasted solid state lighting (SSL) lamps that have standardized characteristics. Lamps with clear, frosted, opaque, and lens end windows, and with various reflector and/or emitting coatings, are covered. Lamps covered in this standard contain LED-based light sources.

### 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 C78.30-1997, *American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings*

ANSI C78.79-2014, *American National Standard for Electric Lamps—Nomenclature for Envelope Shapes Intended for Use with Electric Lamps*

ANSI C78.379-2006 (R2015), *American National Standard for Electric Lamps—Classification of the Beam Patterns of Reflector Lamps*

ANSI C78.60360-2002 (S2016), *American National Standard for Electric Lamps—Standard Method of Measurement of Lamp Cap Temperature Rise*

ANSI C78.60432:1-2007, *American National Standard for Electric Lamps—Incandescent Lamps—Safety Specifications, Part 1: Tungsten Filament Lamps for Domestic and Similar General Lighting Purposes*

ANSI C78.60432:2-2007, *American National Standard for Electric Lamps—Safety Specifications, Part 2: Tungsten Halogen (TH) Lamps for Domestic and Similar General Lighting Purposes*

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

ANSI C81.63-2007 (R2014), *American National Standard for Gauges for Electric Lamp Bases and Lampholders*

ANSI/IESNA RP-27.1-05, *Photobiological Safety for Lamps and Lamp Systems—General Requirements*

ANSI/IESNA RP-27.2-00, *Photobiological Safety for Lamps and Lamp Systems—Measurement Systems*

ANSI/IESNA RP-27.3-96, *Photobiological Safety for Lamps—Risk Group Classification and Labeling*

IEC 60061-1:1969, *Lamp caps and holders together with gauges for the control of interchangeability and safety. Part 1: Lamp caps*

IES LM-79-08, *Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products*

UL 1993, *Self-Ballasted Lamps and Lamp Adapters*