

NEMA Standards Publication

ANSI C78.50-2014

American National Standard for Electric Lamps - Assigned LED Lamp Codes

National Electrical Manufacturers Association



American National Standard

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Secretariat: National Electrical Manufacturers Association

for Electric Lamps—

Assigned LED Lamp Codes ANSI C78.50-2014

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FOREWORD

(This foreword is not part of ANSI C78.50.-2014.)

This is a new standard and not a revision of a previous standard.

Suggestions for improvement of this standard should be submitted to:

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This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C78 and its Working Group, C78 WG-09 for Solid State Lighting Sources. 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 *Procedure for Use in Preparation of Incandescent Lamp Space Drawings*

ANSI C78.379-2006 *Method for the Classification of the Beam Patterns of Reflector Lamps*

ANSI C78.60432-2007, Parts 1 *American National Standard for Electric Lamps—Incandescent Lamps—Safety Specifications*

ANSI C78.60432-2007, Parts 2 *American National Standard for Electric Lamps—Incandescent Lamps—Safety Specifications*

ANSI C81.61-2009 *Electrical Lamp Bases*

ANSI C81.63-2007 *Gauges for Electrical Bases and Lampholders*

Revision of ANSI C79.1: ANSI C78.79-21XX *Nomenclature for Envelope Shapes Intended for Use with Electric Lamps*

ANSI/IEC C78.60360-2002 *Standard Method of Measurement of Lamp Cap Temperature Rise*

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 and Lamp Systems-Risk Group Classification*

IES LM-79-08 *Electrical and Photometric Measurements of Solid-State Lighting Products*

UL 1993 *Standards for Safety Self-Ballasted Lamps and Lamp Adapters*

UL 8750 *Standards for Safety Light Emitting Diode (LED) Equipment for Use in Lighting Products*