NEMA Standards Publication

ANSI/NEMA C78.52-2017

American National Standard for Electric Lamps—LED (Light Emitting Diode) Direct Replacement Lamps— Method of Designation

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National Electrical Manufacturers Association

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Secretariat:

National Electrical Manufacturers Association

Approved: February 2, 2017

American National Standards Institute, Inc.

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Foreword (This foreword is not part of ANSI C78.52-2017)

This is a new standard recently developed by American National Standards Committee C78 on Electric Lamps. It is not a revision of a previous standard.

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

This standard was developed and approved for submittal to ANSI by Accredited Standards Committee on Electric Lamps. Approval of this standard is not meant to imply that all Accredited Standards Committee members voted to approve it.

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1 Scope

This standard describes a system for the designation of LED lamps that are direct replacements for existing ANSI standardized non-LED lamps. Lamps covered in this standard contain LED-based light sources. OLED lamps are not included at this time.

2 Purpose

The purpose of the designation system covered by this standard is to provide an identification code for use in ANSI standards. Some lamp marking requirements are also identified. Guidance is given as to which characteristics are essential to assure interchangeability for safe operation and which characteristics affect performance.

The lamp characteristic data given by a manufacturer on an *LED (Light-Emitting Diode) Direct Replacement Lamp Code Designation Request Form* becomes the basis for the assignment of a designation. They have not been approved by the American National Standards Institute (ANSI) and do not constitute an American National Standard. Similarly, any consolidated listing of assigned designations with associated characteristics does not constitute an American National Standard.

3 References

The following standards contain provisions that, 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.

3.1 Normative References

ANSI C78.30-1997	*American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings*
ANSI C78.377-2015	*American National Standard for Electric Lamps—Specifications for the Chromaticity of Solid State Lighting (SSL) Products*
ANSI C78.379-2006 (R2015)	*American National Standard for Electric Lamps—Classification of the Beam Patterns of Reflector Lamps*
ANSI C78.380-2016	*American National Standard for Electric Lamps—High-Intensity Discharge (HID)—Method of Designation*
ANSI C81.61-2017	*American National Standard for Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps*
ANSI C81.62-2017	*American National Standard for Electric Lamp Holders*
ANSI C81.63-2007(R2014)	*American National Standard for Gauges for Electric Lamp Bases and Lampholders*
ANSI C81.64-2015 (R2014)	*American National Standard—Guidelines and General Information for Electrical Lamp Bases, Lampholders and Gauges*
ANSI C82.6-2016	*American National Standard for Reference Ballasts—High-Intensity-Discharge and Low-Pressure Sodium Lamps*
ANSI/UL 1598-2008	*Standard for Safety—Luminaires*
IES RP-16-10	*Nomenclature and Definitions for Illuminating Engineering*

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