



ANSI/NEMA C78.62612-2018

American National
Standard for
Electric Lamps—
Self-Ballasted
LED Lamps—
Performance
Specifications



National Electrical Manufacturers Association
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*American National Standard for Electric Lamps—
Self-Ballasted LED Lamps—Performance Specifications*

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 C78.62612)

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. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

CONTENTS

Foreword	ii
1. Introduction	1
2. Deviations to Normative References	1
3. Deviations	2

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1 Introduction

The American National Standards ASC C78 adopts IEC 62612, ed1.1 (2015-10) as a nationally acknowledged international standard with deviations given in clauses 2 and 3 below.

2 Deviations to Normative References

The following American National Standards Institute (ANSI) standards are added to clause 1.2, normative references, and may be substituted for the counterpart IEC standard when it is referenced in the text. When these standards are superseded by revision approved by ANSI, the revision shall apply:

ANSI C78.20-2003 (R2007, R2015) *American National Standard for Electric Lamps—A, G, PS and Similar Shapes with E26 Medium Screw Bases*

ANSI C78.21-2011 (R2016) *American National Standard for Incandescent Lamps—PAR and R Shapes*

ANSI C78.22-1995 *American National Standard for Incandescent Lamps—A, G, PS, and similar shapes with E39 mogul screw bases*

ANSI C78.23-1995 *American National Standard for Incandescent Lamps—Miscellaneous Types*

ANSI C78.45-2007 *American National Standard for Electric Lamps—Self-ballasted Mercury Lamps*

ANSI C78.50-2014 *American National Standard for Electric Lamps—Assigned LED Lamp Codes*

ANSI C78.51-2016 *American National Standard for Electric Lamps—LED (Light Emitting Diode) Lamps—Method of Designation*

ANSI C78.52-2017 *American National Standard for Electric Lamps—LED (Light Emitting Diode) Direct Replacement Lamps—Method of Designation*

ANSI C78.377-2017 *American National Standard for Electric Lamps—Specifications for the Chromaticity of Solid State Lighting (SSL) Products*

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 Lampholders*

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

ANSI C81.64-2005 (R2014) *American National Standard—Guidelines and General Information for Electric Lamp Bases, Lampholders and Gauges*

ANSI C82.16-2015 *American National Standard for Light-Emitting Diode Drivers—Methods of Measurement*

ANSI C82.77-2002 *Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment*

ANSI/IES RP-16-10 *Nomenclature and Definitions for Illuminating Engineering*

ANSI/IES RP27.1-15 *Photobiological Safety for Lamps and Lamp Systems—General Requirements*

ANSI/IES RP27.2-00 (R2010) *Photobiological Safety for Lamps and Lamp Systems—Measurement Systems*

ANSI/IES RP27.3-07 *Photobiological Safety for Lamps and Lamp Systems—Risk Group Classification and Labeling*