



ANSI/NEMA C78.5-2017

American National
Standard for
Electric Lamps—
Specifications for
Performance of
Self-Ballasted
Compact
Fluorescent Lamps



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*American National Standard for Electric Lamps—
Specifications for Performance of Self-Ballasted
Compact Fluorescent Lamps*

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 American National Standard C78.5-2017)

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.

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1 Scope

This standard specifies the performance requirements together with the test methods and conditions required to show compliance of self-ballasted compact fluorescent lamps up to 60 watts which are intended for domestic and similar general lighting purposes. Such lamps shall have a rated input voltage of 120 or 277 volts at 60 Hz and an Edison screw base. Globe and reflector types are excluded.

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 C78.375A *American National Standard for Electric Lamps—Fluorescent Lamps—Guide for Electrical Measurements*

ANSI C78.30 *American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings*

CIE Publication 13.3, Second Edition *Method of Measuring and Specifying Color Rendering Index of Light Sources*

CIE Publication 15.2 *Colorimetry*

IEC 60969:2016 *Self-Ballasted Compact Fluorescent Lamps for General Lighting Services—Performance Requirements*

IES LM-65 *Approved Method for Life Testing of Compact Fluorescent Lamps*

IES LM-66 *Approved method for the Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps*

UL 1993 *Standard for Self-Ballasted Lamps and Lamp Adapters*

ANSI C82.13 *American National Standard for Lamp Ballasts—Definitions for Fluorescent Lamps and Ballasts*

ANSI C82.77-5 *American National Standard for Lighting Equipment—Voltage Surge Requirements*

ANSI C82.77-10 *American National Standard for Lighting Equipment—Harmonic Emission Limits—Related Power Quality Requirements*

NEMA 410 *Performance Testing for Lighting Controls and Switching Devices with Electronic Drivers and Discharge Ballasts*

Energy Star-Lamps V2.0 *Lamps Specification*