



ANSI C78.5-2017 (R2022)

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

Secretariat:

National Electrical Manufacturers Association

Approved: June 16, 2022

American National Standards Institute, Inc.

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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 normative documents contain provisions, which through reference in this text constitute provisions of this standards publication. By reference herein, these publications are adopted, in whole or in part as indicated, in this standards publication. 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	<i>American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings</i>
ANSI C78.375A	<i>American National Standard for Electric Lamps—Fluorescent Lamps—Guide for Electrical Measures</i>
ANSI C82.13	<i>American National Standard for Lamp Ballasts—Definitions for Fluorescent Lamps and Ballasts</i>
ANSI C82.77-5	<i>American National Standard for Lighting Equipment—Voltage Surge Requirements</i>
ANSI C82.77-10	<i>American National Standard for Lighting Equipment—Harmonic Emission Limits—Related Power Quality Requirements</i>
ANSI/IES LM-65	<i>Approved Method: Life Testing of Single-Based Fluorescent Lamps</i>
ANSI/IES LM-66	<i>Approved Method: Electrical and Photometric Measurements of Single-Based Fluorescent Lamps</i>
CIE Publication 13.3	<i>Method of Measuring and Specifying Color Rendering Index of Light Sources</i>
CIE Publication 15.2	<i>Colorimetry</i>
IEC 60969:2016	<i>Self-Ballasted Compact Fluorescent Lamps for General Lighting Services—Performance Requirements</i>
UL 1993	<i>Standard for Self-Ballasted Lamps and Lamp Adapters</i>
NEMA 410	<i>Performance Testing for Lighting Controls and Switching Devices with Electronic Drivers and Discharge Ballasts</i>
ENERG STAR	<i>Lamps Specification</i>