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ANSI C78.5-2003 (R2008, R2015)

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

National Electrical Manufacturers Association

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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 C78.5-2003)

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 Sub-Committee, C78 WG 02. 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. Globe and reflector types are excluded. Such lamps shall have a rated input voltage of 120 or 127 volts at 60 Hz and an Edison screw base.

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 C78.375, Fluorescent lamps—Guide for Electrical Measurements

CIE Publication 13.3, Second edition, Method of measuring and specifying color rendering index of light sources

CIE Publication 15.2, Colorimetry

IES LM-65, Approved method for Lifetesting 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, Definitions for fluorescent lamps and ballasts

ANSI C82.77, Harmonic emission limits—related power quality requirements for lighting equipment