NEMA Standards Publication

ANSI/NEMA C78.5-2003

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

National Electrical Manufacturers Association

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn. VA 22209
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ANSI C78.5-2003

Revision of ANSI C78.5-1997

American National Standard

for electric lamps—

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Approved: November 19, 2003 Secretariat: ANSLG -National Electrical Manufacturers Association

For Electric Lamps

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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 the Secretariat C78, American National Standard Lighting Group (NEMA), 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209.

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.

Information concerning approval of this standard is based on the documents listed in the table below.

Amendment / Change	CDV	RV
Revision	CDV C78(2)/4133	RV C78(2)/4134

David Mullen, Chairman, C78
David Mullen, Technical Coordinator
Randolph N. Roy, Secretariat
Matthew C. Clark, Coordinating Editor

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Specifications for Performance of Self-ballasted Compact Fluorescent Lamps

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 C78.375-1997, Fluorescent lamps - Guide for Electrical Measurements

CIE Publication 13.3-1995, Second edition, Method of measuring and specifying color rendering index of light sources

CIE Publication 15.2 (1986), Colorimetry

IESNA LM-65-2001, Approved method for Lifetesting of Compact Fluorescent Lamps

IESNA LM-66-2000, Approved method for the Electrical and Photometric Measurements of Single-ended Compact Fluorescent Lamps

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

ANSI C82.13-2002, Definitions – for fluorescent lamps and ballasts

ANSI C82.77-2002, Harmonic emission limits – related power quality requirements for lighting equipment