

NEMA IEC C78.81-2005

American National Standard for Electric Lamps - Double-Capped Fluorescent Lamps - Dimensional and Electrical Characteristics





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Revision of ANSI C78.81-2003

American National Standard

for Electric Lamps
Double-Capped Fluorescent Lamps—
Dimensional and Electrical
Characteristics

American National Standard

Approved: August 11, 2005

Secretariat: ANSLG-- National Electrical Manufacturers Association

for Electric Lamps

Double-Capped Fluorescent Lamps- Dimensional and Electrical Characteristics

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American National Standard

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FOREWORD (This Foreword is not part of ANSI IEC C78.81-2005)

Suggestions for improvement of this standard will be welcome. They should be sent to the Secretariat, C78 Committee, American National Standard Lighting Group, 1300 North 17th Street, Suite 1752, Rosslyn, VA 22209.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Electric lamps, C78, and its Work Group, C78 WG 02. Approval of the standard does not necessarily imply that all work group members voted for its approval.

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

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PART I – General Information and Requirements

1 Scope

This standard sets forth the physical and electrical characteristics of the principal types of fluorescent lamps intended for application on conventional line frequency circuits, and electronic high frequency circuits. Some data sheets may specify more than one circuit application. Specifications for both the lamp itself and the interactive features of the lamp and ballast are given. Only double-based lamps of the regular linear shape are included. Single-based lamps including compact, circular, square shaped and U-shaped are found in ANSI C78.901.

Lamps for conventional systems relying on auxiliary support from external ballasts are described. These lamps are those designed for 60-Hz and/or high frequency operation.

Lamp color is not specified herein.

Certain lamp types covered in this standard may be similar to those in IEC 60081. However, additional types are included that are used only in North America and are not specified in the IEC standard.

2 General

There are four parts to this standard:

- | | |
|-----------------|---|
| Part I | Contains requirements and general information. Detailed descriptions, references, and explanations of the terms used in the lamp data sheets are given in this part. It also defines the principles of dimensioning lamps, both as finished lamps and for maximum outline purposes. |
| Part II | Contains dimensioning principles and lamp outline drawings. |
| Part III | Contains the annexes. |
| Part IV | Contains the lamp data sheets for the lamp classes covered in this standard. Sheets adopted from IEC are not included but a source reference is listed. |