



**ANSI C78.81-2016**

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

Secretariat:

**National Electrical Manufacturers Association**

Approved: June 29, 2016

**American National Standards Institute, Inc.**

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**FOREWORD (This foreword is not part of ANSI C78.81-2016)**

Suggestions for improvement of this standard should be submitted to the Secretariat, C78 Committee, National Electrical Manufacturers Association, 1300 North 17<sup>th</sup> Street, Suite 900, Rosslyn, VA 22209.

This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C78, and its work group, C78WG02. Approval of the standard does not necessarily imply that all work group members voted for its approval.

This revision supersedes ANSI C78.81-2014.

**This standard features revisions to:**

**1. The following datasheets**

1. 17 Watt, 24-Inch T8, Fluorescent Lamp [7881-ANSI-1001-2] -3
2. 25 Watt 36 inch T8, Fluorescent Lamp [7881-ANSI-1002-2] -3
3. 25 Watt, 48-inch T8, Fluorescent Lamp [7881-ANSI-1028-2] -3
4. 32 Watt, 48-inch T8, Fluorescent Lamp [7881-ANSI-1005-3] -4
5. 28 Watt, 48-inch T8, Fluorescent Lamp [7881-ANSI-1029-2] -3
6. 30 Watt, 48-inch T8, Fluorescent Lamp [7881-ANSI-1030-2] -3
7. 40 Watt, 60-inch T8, Fluorescent Lamp [7881-ANSI-1007-2] -3
8. 15 Watt, 18-inch T8, Fluorescent Lamp [7881-ANSI-1031-1] -2
9. 15 Watt, 24-inch T8, Fluorescent Lamp [7881-ANSI-1032-1] -2
10. 21 Watt, 36-inch T8, Fluorescent Lamp [7881-ANSI-1033-1] -2

**2. Annex D**

**3. Datasheet 7881-ANSI-1501-2**

86- Watt, 96-inch T8, 0.4 A HF Rapid Start Fluorescent Lamp, pg. 115, revision and reformat

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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 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, 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.