ANSI C78.901-2016 (R2022)

American National Standard for Electric Lamps—Single-Based Fluorescent Lamps—Dimensional and Electrical Characteristics

Secretariat:

National Electrical Manufacturers Association

Approved: April 12, 2022

American National Standards Institute, Inc.

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Published by

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

Printed in the United States of America

Foreword (This foreword is not part of ANSI C78.901-2016 [R2022].)

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

This standard was processed and approved by the C78 Committee. Committee approval of the standard does not necessarily imply that all committee members voted for its approval.

Note: The user's attention is called to the possibility that compliance with this standard could require use of an invention covered by patent rights.

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Part I
General Information and Requirements

1 Scope

This standard sets forth the physical and electrical characteristics required to assure interchangeability and to assist in proper application of single-based fluorescent lamps. Single-based compact fluorescent lamps, both self-supporting and those requiring auxiliary support, including circular-, square-, and U-shaped lamps, are specified. Specifications for the lamp itself and the interactive features of the lamp with the ballast are given. Information for luminaire design is given for certain lamp types.

The lamps covered in this standard are intended for use with external ballasts as described. These lamps are designed for 60 Hz and/or high frequency (HF) operation.

Many of the lamp types covered in this standard are closely comparable to those specified in IEC 60901.

1.1 Important Patent Disclaimer

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2 General

There are four parts to this standard.

Part I Contains requirements and general information. Detailed descriptions, references, and explanations of 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 all of the lamp data sheets for the lamp classes covered in this standard.

3 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 *American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings*

ANSI C78.79 *American National Standard for Electric Lamps—Nomenclature for Envelope Shapes Intended for Use with Electric Lamps*