NEMA Standards Publication

ANSI C78.1431-1997 (R2016)

American National Standard for Electric Lamps— Slide Projector Lamps, Condensing, Dichroic, Two-inch (51 mm), Integral Reflector, Rim Reference Tungsten-Halogen Lamps with GY 5.3 Bases

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Secretariat:

National Electrical Manufacturers Association

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Foreword (This Foreword is not part of ANSI C78.1431-1997)

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

This standard was processed and approved by Accredited Standards Committee on Electric Lamps, C78. 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 consolidates the lamps commonly used for slide projectors into a single standard. The lamps contained in this standard are not to be considered as interchangeable. Physically they will all fit the common socket used for these lamps. The photometry of each lamp is dependent upon the system for which it was designed and on the system in which it is used. A sample system and representative photometric values are found in the Annex.

2 Normative References

The following standards 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 standards indicated below.

ANSI C78.1413-1989 (R1994) *American National Standard for Dimensions and Centering Systems for Projection Lamps—51 mm (2 in.) Integral Reflector, Rim Reference Lamps with GX5.3, GY5.3 and GU5.3 Bases*

ANSI C78.1450-1983 (R1994) *American National Standard for Projection Lamps, Incandescent—Method for Life Testing*

ANSI C81.61-1990 (R1996) *American National Standard for Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps*

ANSI IT7.201-1991 *Audiovisual Systems-slide Projectors and Filmstrip Projectors-Illumination Test*

IEC 682-1980 *Standard Method of Measurement of Pinch Temperature or Quartz-Tungsten-Halogen Lamps*

3 Ratings

This standard includes the following lamps: ELH, ENG, ENH.

Table 1
Lamp Ratings

ANSI Designation	Watts	Volts	Life (hrs.)	Working Distance (mm)	Correlated Color Temperature (K)
ELH	300	120	35	152.4	3350
ENG	300	120	15	152.4	3450
ENH	250	120	175	152.4	3250

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