ANSI C78.21-2022

American National Standard for Incandescent Lamps—PAR and R Shapes

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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Foreword (This foreword is not part of American National Standard C78.21-2022.)

This is a revision of ANSI C78.21-2011 (R2016).

Suggestions for improvement of this standard should be submitted to:

Secretariat C78
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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 that approval.

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Part I
General Information

1 Scope

This standard provides physical and electrical characteristics of the group of incandescent lamps that have PAR and R bulb shapes. Lamps with clear, frosted, and lens end bulbs, with clear and prescription lenses, and with various reflector coatings are covered. Lamps covered in this standard may contain either of two basic types of light sources: an incandescent filament or a tungsten halogen inner bulb. Sunlamps and heat lamps of the R type are included. Lamps with discharge arc tubes are not included.

Other groups of incandescent lamp standards are affected by this revision. Please see the normative paragraph below referencing C78.20, C78.22, and C78.23.

At the time of issuance of this standard, there was no comparable standard published by the International Electrotechnical Commission (IEC).

1.1 Important Patent Disclaimer

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2 Normative References

The following normative documents contain provisions, which through reference in this text constitute provisions of this technical publication. By reference herein, these publications are adopted, in whole or in part as indicated, in this technical 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 C78.20	*American National Standard for Electric Lamps—A, G, PS, and Similar Shapes with E26 Medium Screw Bases*
ANSI C78.22	*American National Standard for Incandescent Lamps—A, G, PS, and Similar Shapes with E39 Mogul Screw Bases*
ANSI C78.23	*American National Standard for Incandescent Lamps—Miscellaneous Types*
ANSI C78.30	*American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Space Drawings*
ANSI C78.379	*American National Standard for Electric Lamps—Classification of the Beam Patterns of Reflector Lamps*
ANSI C78.60360	*American National Standard for Electric Lamps—Standard Method of Measurement of Lamp Cap Temperature Rise*
ANSI C78.60432.1	*American National Standard for Electric Lamps—Incandescent Lamps—Safety Specifications, Part 1: Tungsten Filament Lamps for Domestic and Similar General Lighting Purposes*
ANSI C78.60432.2	*American National Standard for Electric Lamps—Safety Specifications, Part 2: Tungsten Halogen (TH) Lamps for Domestic and Similar General Lighting Purposes*
ANSI C78.79	*American National Standard for Electric Lamps—Nomenclature for Envelope Shapes Intended for Use with Electric Lamps*
ANSI C81.61	*American National Standard for Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps*
ANSI C81.63	*American National Standard for Gauges for Electric Lamp Bases and Lampholders*

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