

ANSI C78.30-1997(S2018)

American National Standard

for electric lamps:

Procedure for Use in Preparation of Lamp Space Drawings

Secretariat C78
National Electrical Manufacturers Association

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American National Standards Institute

American National Standard

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Foreword (This foreword is not part of the American National Standard C78.30-1997)

Accredited Standards Committee for Lamps, C78, used outline drawings for incandescent lamps which have been in existence for some time. However, these drawings were not made by a consistent technique and they suffered a severe lack of completeness. Some early drawings depicted a typical lamp without regard to the space it might take up when various dimensional tolerances were considered. Others showed both long and short bulbs without regard to skewness or eccentricity but did not add the credibility that dimensions would afford. Similar drawings in standards for other types of lamps introduced additional inconsistencies.

Subcommittee C78-1 undertook a project to remedy the shortcomings of earlier standard drawings. In addition, they set an objective to simplify the resultant space by using straight lines as much as possible and by eliminating complicated curves. Of course, this would have to be done so that no interference between a lamp and luminaire would occur.

SR30 was the result of that Subcommittee's work. It was first issued in 1981. Part IV was added in 1985. It covers single-based, high intensity discharge type lamps (among others) as a result of feedback from subcommittee C78-4. It contains step-by-step procedures that can be used to produce consistent, accurate, and simplified drawings. This First Edition of C78.30 capitalizes on the experience gained from applying the techniques outlined in the First and Second Editions of SR30. Although the procedures are written mainly for shapes that are usually used in incandescent and HID lamps, some minor revisions may be possible to extend the coverage to other fields. This standard is harmonized with IEC 1126.

Suggestions for improvement of this standard will be welcome. They should be sent to the National Electrical Manufacturers Association, 1300 N. 17th St., Suite 1847, Rosslyn, VA 22209.

This standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Lamps, C78. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the C78 Committee had the following members:

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and Technical Coordinator
Randolph N. Roy, Secretariat
Jeanne L. Spicer, Coordinating Editor

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Duro-Test Corporation	Larry Sheinberg
Edison Electric Institute.....	William Maguire (Delegate)
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Underwriters Laboratories, Inc.....	David Belt

At the time it approved this standard, the C78-1 Sub-Committee for Incandescent Lamps had the following members:

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Underwriters Laboratories, Inc.....	David Belt

for electric lamps:

Procedure for Use in Preparation of Lamp Space Drawings

1 Scope and purpose

1.1 Scope

This standard describes the procedures to be followed for the construction of lamp space drawings.