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*American National Standard for Electric Lamps—
Specifications for Mercury Lamps*

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 C78.40)

Suggestions for improvement of this standard will be welcome. They should be sent to the Secretariat, C78 Committee, NEMA, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.

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

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Organization of This Standard

This standard has been arranged in three parts:

Part I covers general requirements and information. It provides normative references and offers brief explanations of the meaning or the application of some of the numerical data given on the individual lamp data sheets in Part II of this standard. It also provides requirements that are common to all mercury lamp types.

Part II contains an individual data sheet for each size of mercury lamp.

Part III contains the maximum outline drawings for each size of lamp.

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Part I General Information

1 Scope

This standard sets forth the physical and electrical requirements for single-ended metal halide lamps operated on 60 Hz ballasts to ensure interchangeability and safety. The data given also provides the basis for the electrical requirements for ballasts as well as the lamp-related requirements for luminaires. Luminous flux and lamp color are not part of this standard.

1.1 Important patent disclaimer

At the time of publication, it is possible that some of the elements of this document may be the subject of patent rights. When this Standard was approved for publication, the National Electrical Manufacturers Association (NEMA) did not know of any patent applications, patents pending, or existing patents. NEMA shall not be held responsible for identifying any or all such patent rights.

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 C78.30	<i>American National Standard for Electric Lamps—Procedure for Use in Preparation of Lamp Specification Drawings</i>
ANSI C78.380	<i>American National Standard for Electric Lamps—High-Intensity Discharge (HID)—Method of Designation</i>
ANSI C78.389	<i>American National Standard for Electric Lamps—High-Intensity Discharge (HID)—Methods of Measuring Characteristics</i>
ANSI C78.79	<i>American National Standard for Electric Lamps—Nomenclature for Envelope Shapes Intended for Use with Electric Lamps</i>
ANSI C81.61	<i>American National Standard for Electrical Lamp Bases—Specifications for Bases (Caps) for Electric Lamps</i>
ANSI C81.62	<i>American National Standard for Electric Lampholders</i>
ANSI C81.63	<i>American National Standard for Gauges for Electric Lamp Bases and Lampholders</i>
ANSI C81.64	<i>American National Standard—Guidelines and General Information for Electrical Lamp Bases, Lampholders and Gauges</i>
ANSI C82.5	<i>American National Standard for Reference Ballasts—High-Intensity-Discharge and Low-Pressure Sodium Lamps</i>
ANSI C82.9	<i>American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge (HID) Lamps—Methods of Measurement</i>
ANSI C82.9	<i>American National Standard for Lamp Ballasts—High-Intensity Discharge (HID) and Low-Pressure Sodium (LPS) Lamps—Definitions</i>
ANSI C78.62035	<i>American National Standard for Electric Lamps—Discharge Lamps (Excluding Fluorescent Lamps)—Safety Specifications</i>
UL 1598	<i>Standard for Safety for Luminaires</i>