



ANSI C78.40-2016

American National Standard for Electric Lamps— Specifications for Mercury Lamps





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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 Accredited Standards Committee on Electric Lamps, C78. Committee approval of the standard does not necessarily imply that all committee members voted for its approval.

CONTENTS

Foreword ii
Organization of This Standard iv

PART I GENERAL INFORMATION..... 1

1 Scope..... 1
 1.1. Important patent disclaimer..... 1

2 Normative references 2

3 Definitions 2

4 Methods of measurement..... 2

5 Lamp specifications 2

6 Lamp designations 2

7 Bulb designations 2

8 Base specifications..... 2

9 Maximum outline drawings..... 2

10 Electrical characteristics
 10.1 Lamp operating characteristics 2
 10.2 Warm-up time 3

11. Reference ballasts 3

12. Ballast design 3
 12.1 Open-circuit voltage..... 3
 12.2 Starting current 3

PART II LAMP DATA SHEETS..... 4

40-Watt H45 Mercury Lamp 4

50-Watt H46 Mercury Lamp 6

75-Watt H43 Mercury Lamp 8

100-Watt H38 Mercury Lamp 10

100-Watt H44 Mercury Lamp 13

175-Watt H39 Mercury Lamp 15

250-Watt H37 Mercury Lamp 18

400-Watt H33 Mercury Lamp 20

700-Watt H35 Mercury Lamp 22

1000-Watt H34 Mercury Lamp 24

1000-Watt H36 Mercury Lamp 26

PART III MAXIMUM OUTLINE DRAWINGS..... 28

Base: Medium Screw (E26) Bulb: BD17, ED17, B17, E17 MOL: 131 28

Base: Medium Screw (E26) Bulb: BD17, ED17, B17, E17 MOL: 139 29

Base: Medium Screw (E26) Bulb: A23 MOL: 139 30

Base: Medium Screw (E26) Bulb: R40, RD40 MOL: 191..... 31

Base: Admedium, medium (E26) Skirted Screw Bulb:
 Par38 Reflector Spotlight, Floodlight MOL: 138..... 32

Base: Admedium, Bulb T10, MOL: 143..... 33

Base: Mogul Screw (E39) Bulb: ED23.5 MOL: 191 34

Base: Mogul Screw (E39) Bulb: BT28, E28, ED28 MOL: 211 35

Base: Mogul Screw (E39) Bulb: BT37, ED37, E37 MOL: 292 36

Base: Mogul Screw (E39) Bulb: BT46 MOL: 368..... 37

Base: Mogul Screw (E39) Bulb: BT56 MOL: 391 38

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.

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 Space 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 C82.6	<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>