



ANSI/NEMA C78.40-1992 (R2003)

American National Standard for Mercury Lamps - Specifications



National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn, VA 22209
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Setting Standards for Excellence

To: Current Holders of ANSI C78.40-1992
From: NEMA Communications Department
Date: May 26, 2004
Subject: Reaffirmation of ANSI C78.40-1992

The NEMA Codes and Standards Committee has reaffirmed ANSI C78.40-1992, "Mercury Lamps, Specifications."

The new designator for this standard is: ANSI C78.40-1992 (R2003), "Mercury Lamps, Specifications."

Please insert the attached revised title page into your standard.

ANSI C78.40-1992 (R2003)

American National Standard

**Mercury Lamps-
Specifications**

Secretariat:

National Electrical Manufacturers Association

Approved as an
American National Standards Institute, Inc.

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American National Standard

Approved August 18, 1998

Secretariat: National Electrical Manufacturers Association

for electric lamps—

Specifications for Mercury Lamps— Maximum Outline Drawing of Bulb BT56

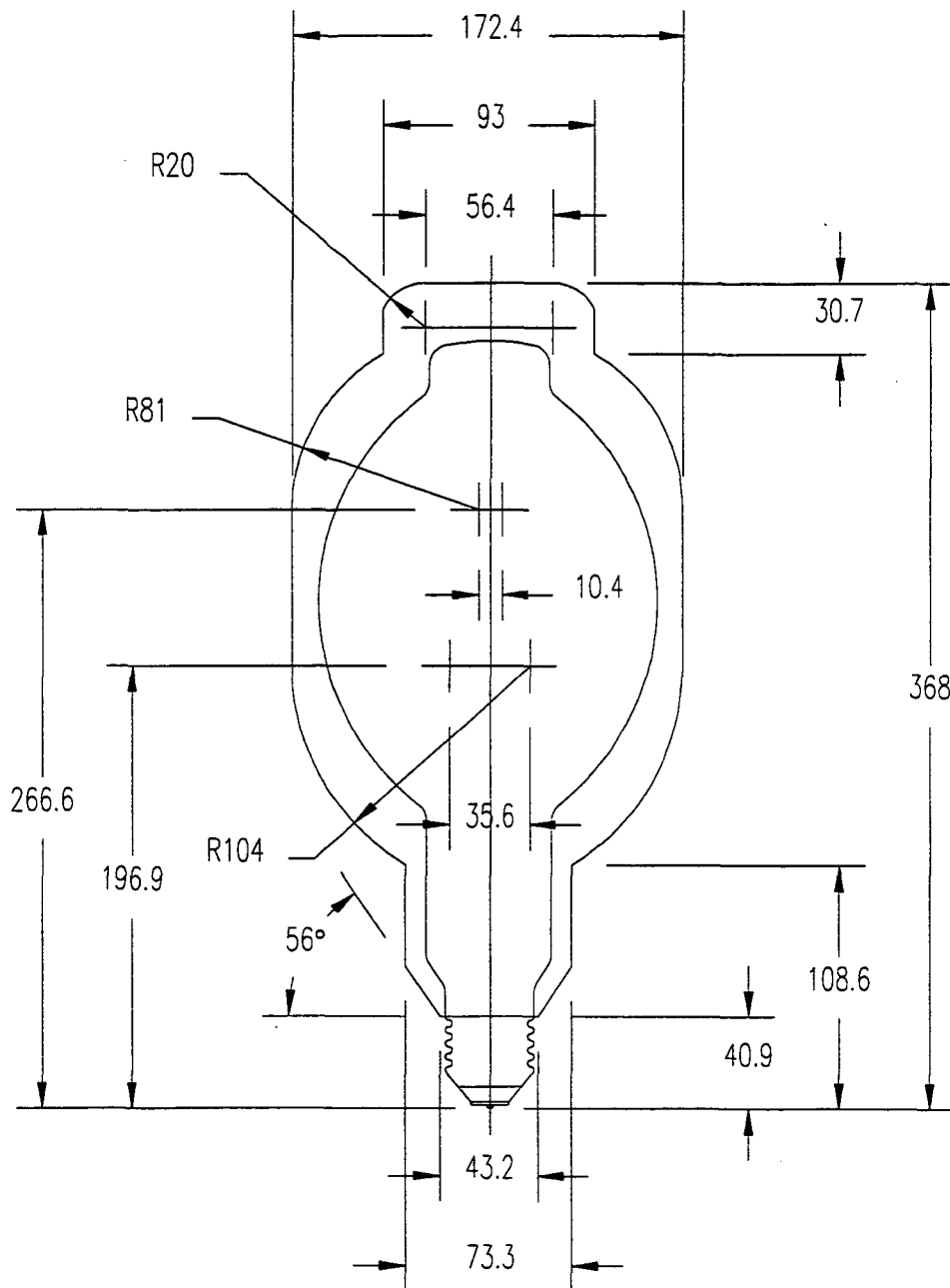
INSTRUCTIONS:

Place the attached pages into ANSI C78.40-1992 to replace pages 55 and 56 of the existing standard.

Discard this instruction sheet when finished.

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LEFT BLANK**

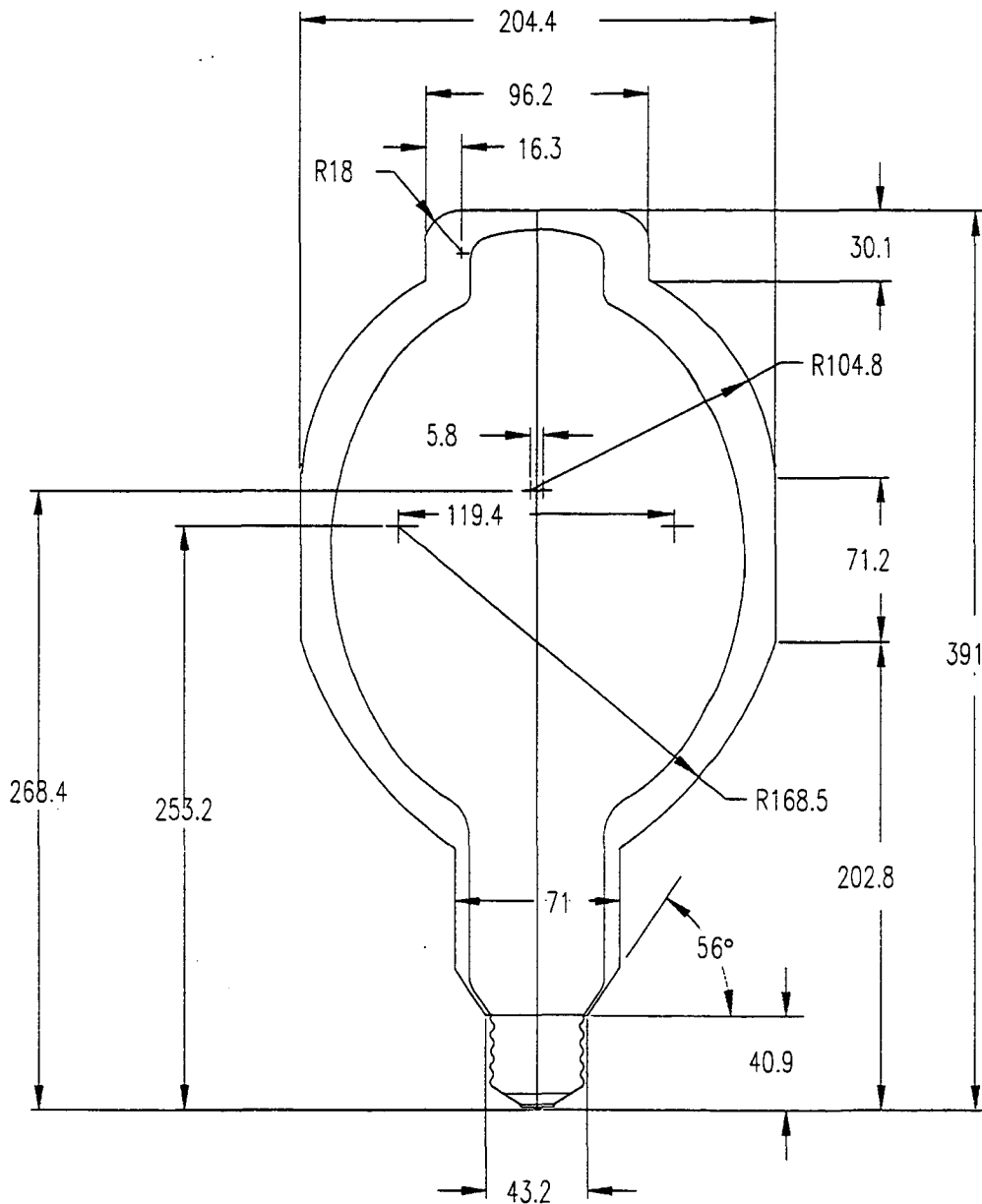
MAXIMUM OUTLINE DRAWING
(All Dimensions in Millimeters)



BULB: BT46
BASE: MOGUL SCREW (E39)
MOL: 368
MIN. OAL: 325
ECCENTRICITY: 3°

SCALE = 1 : 3
10 APR 90
REVISION 2

MAXIMUM OUTLINE DRAWING
(ALL DIMENSIONS IN MILLIMETERS)



BULB: BT56
BASE: MOGUL SCREW (E39)
MOL: 391
MIN. OAL: 374
ECCENTRICITY: 3°

16-DEC-96
REV. 3

American National Standard

ANSI C78.40-1992
REVISION OF C78.40-1985

SPECIFICATIONS FOR MERCURY LAMPS



National Electrical
Manufacturers Association
2101 L Street, N.W.
Washington, D.C. 20037-1580
(202) 457-8409/1981



ANSI®
C78.40-1992
Revision of ANSI C78.40-1985

AMERICAN NATIONAL STANDARD
FOR MERCURY LAMPS - SPECIFICATIONS

Secretariat

National Electrical Manufacturers Association

Approved August 20, 1992

American National Standards Institute, Inc.

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Revision of ANSI C78.40-1985

AMERICAN NATIONAL STANDARD
FOR MERCURY LAMPS - SPECIFICATIONS

Secretariat

National Electrical Manufacturers Association

Approved August 20, 1992

American National Standards Institute, Inc.

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AMERICAN NATIONAL STANDARD

C78.40-1992

CONTENTS

	PAGE
Foreword	iii
Organization Of This Standard	1
PART I GENERAL INFORMATION	3
Scope	5
Normative References	5
Lamp Designations	6
Bulb Designations	6
Base Specifications	6
Maximum Outline Drawings	6
Methods of Measurement	6
Electrical Characteristics	7
Reference Ballasts	7
Ballast Design	7
PART II LAMP DATA SHEETS	9
40-Watt H45 Mercury Lamp	11
50-Watt H46 Mercury Lamp	14
75-Watt H43 Mercury Lamp	17
100-Watt H38 Mercury Lamp	20
100-Watt H44 Mercury Lamp	23
175-Watt H39 Mercury Lamp	26
250-Watt H37 Mercury Lamp	29
400-Watt H33 Mercury Lamp	32
700-Watt H35 Mercury Lamp	35
1000-Watt H34 Mercury Lamp	38
1000-Watt H36 Mercury Lamp	41
PART III MAXIMUM OUTLINE DRAWINGS	45
Base: Medium Screw (E26) Bulb: BD17, ED17, B17, E17 MOL: 131 . .	47
Base: Medium Screw (E26) Bulb: BD17, ED17, B17, E17 MOL: 139 . .	48
Base: Medium Screw (E26) Bulb: A23 MOL 139	49
Base: Mogul Screw (E39) Bulb: ED23.5 MOL 191	50
Base: Admedium Skirted Screw Bulb: Par37 Reflector Spotlight Par38 Reflector Floodlight MOL 138	51
Base: Admedium, Bulb T10, MOL 143	52
Base: Mogul Screw (E39) Bulb: BT28, E28, ED28 MOL 211	53
Base: Mogul Screw (E39) Bulb: BT37, ED37, E37 MOL 292	54
Base: Mogul Screw (E39) Bulb: BT46 MOL 368	55
Base: Mogul Screw (E39) Bulb: BT56 MOL 391	56

AMERICAN NATIONAL STANDARD

C78.40-1992

AMERICAN NATIONAL STANDARD

C78.40-1992

FOREWORD (This Foreword is not part of American National Standard C78.40-1992)

This edition of the American National Standard for Mercury Lamps - Specifications. ANSI C78.40-1992, supersedes the 1985 edition. It contains an individual data sheet and the maximum outline drawings for each size of mercury lamp covered. (See the introductory explanation of the organization of this standard.) Prior to the 1985 revision, all of the standards for mercury lamps were published as a part of a collection known as the American National Standard for Mercury Lamps, ANSI C78 (1969 edition, 1972 supplement and 1985 edition).

Suggestions for improvement of this standard will be welcome. They should be sent to the Secretariat, C78 Committee, National Electrical Manufacturers Association, 2101 L Street, N.W., Suite 300, Washington, DC 20037.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Electric Lamps, C78 Committee approval of the 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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AMERICAN NATIONAL STANDARD**C78.40-1992**

Subcommittee C78-4 on High-Intensity Discharge Lamps, which developed this standard, had the following members:

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AMERICAN NATIONAL STANDARD

C78.40-1992

ORGANIZATION OF THIS STANDARD

This standard has been arranged in three parts:

PART I covers general information. It provides references to other related American National Standards and also offers a brief explanation of the meaning or the application of some of the numerical data given on the individual lamp data sheets in **Part II**.

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.

AMERICAN NATIONAL STANDARD

C78.40-1992

AMERICAN NATIONAL STANDARD

C78.40-1992

PART I

GENERAL INFORMATION

AMERICAN NATIONAL STANDARD

C78.40-1992

AMERICAN NATIONAL STANDARD

C78.40-1992

**MERCURY LAMPS -
SPECIFICATIONS****1. Scope**

This standard sets forth the physical and electrical characteristics of the principal types of mercury lamps. The electrical data given provide the specific basis for the ballast requirements outlined in ANSI C82.4-1992 and ANSI C82.7-1983(R1988).

2. Normative References**2.1 Referenced American
National Standards**

This standard is intended for use with the following American National Standards. When these standards are superseded by a revision approved by the American National Standards Institute, Inc, the revision shall apply.

ANSI C78.380-1984, *American National Standard for Electric Lamps -- High Intensity Discharge Lamps -- Method of Designation.*

ANSI C78.386-1983, *American National Standard for Electric Lamps -- Mercury Lamps -- Methods of Measuring Characteristics.*

ANSI C79.1-1980 (R1984), *American National Standard Nomenclature for Glass Bulbs Intended for Use with Electric Lamps.*

ANSI C81.10-1976 (R1982), C82.10a-1979 (R1982), C81.10b-1982 and C82.10d-1986, *American National Standards Specifications for Electric Lamp Bases and Holders - Screw-Shell Types*

ANSI C82.4-1985 and C82.4a-1988, *American National Standard for Ballasts for High-Intensity-Discharge Lamps (Multiple Supply Type).*

ANSI C82.5-1983 and C82.5a-1984, *American National Standard for Reference Ballasts for High-Intensity-Discharge Lamps.*

ANSI C82.7-1988, *American National Standard for Mercury Lamp Transformers -- Constant Current (Series) Supply Type.*