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American National Standard

**Roadway and Area Lighting Equipment–
Metal Halide Lamps – Guide for Selection**

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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1 Scope

This selection guide includes screw base single ended metal halide lamps that can be used in roadway and area lighting equipment

2 Normative References

This standard incorporates by undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed below. For undated references, the latest edition of the publication referred to applies (including amendments).

ANSI C78.43, *American National Standard for Single-Ended Metal Halide Lamps.*

ANSI C81.61, *American National Standard for Electrical Lamp Bases.*

ANSI C82.4, *American National Standard for Ballasts for High-Intensity Discharge and Low-Pressure Sodium Lamps.*

3 General Description and Information

Metal Halide lamps may be operated on either series or multiple circuits with the use of the proper ballast. Lamps listed in the following tables conform to the applicable parts of ANSI C78.43, ANSI C81.61, and ANSI C82.4. The ANSI lamp code should match the ANSI ballast code to ensure proper luminaire operation.

The below tables contains typical data that varies by lamp manufacturer. It is suggested that the user refer to current lamp manufacturer catalogs for current data such as average lamp life and lumen ratings. Lamp bases constructed of brass or corrosion resistant alloy are recommended. Consult the manufacturer for availability.

This selection guide contains data for lamps with a clear outer glass jacket (no phosphorous coating). Coated lamps are available in most wattages and typically have a slightly higher color rendering index (CRI) and a slightly lower lumen output than clear jacket lamps. Consult the manufacturer for availability.

Some lamps are only available for a specific operating (burning) position (vertical base up, vertical base down, horizontal). Many metal halide lamps are designed to operate in any burning. These are known as universal lamps. Universal lamps generally have slightly lower lumen output and average life but can be used in any burning position.