NEMA Standards Publication

ANSI C136.14-2020

American National Standard for Roadway and Area Lighting Equipment— Elliptically Shaped, Enclosed Side-Mounted Luminaires

National Electrical Manufacturers Association

National Electrical Manufacturers Association
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American National Standard for Roadway and Area Lighting Equipment— Elliptically Shaped, Enclosed Side-Mounted Luminaires

Secretariat:

National Electrical Manufacturers Association

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Foreword (This foreword is not part of American National Standard C136.14-2020.)

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1 Scope

This Standard covers dimensional, maintenance, and light distribution features that permit the interchange of enclosed side-mounted luminaires for horizontal-burning high-intensity discharge (HID) lamps, solid-state lighting (LED) sources, and other light sources used in roadway and area lighting equipment. This type of luminaire has traditionally been used for street or roadway lighting and has commonly been referred to as *cobrahead-style* luminaires. Luminaires of similar size, shape, and weight meeting the requirements of this Standard may be used interchangeably within a system with the assurance that:

a. They will fit the bracket arm.
b. Pole strength requirements will not change.
c. Light distribution will be similar.
d. Similar maintenance procedures can be used.

Historically, luminaires covered by this Standard are elliptical in shape with lenses that meet the requirements of ANSI C136.17. Luminaires other than HID may have a different unique shape, as long as they meet the requirements listed above.

Excluded from this Standard are luminaires having rectilinear and round shapes traditionally covered by ANSI C136.23.

2 Normative References

This Standard is intended for use in conjunction with the following American National Standards. When these Standards are superseded by a revision approved by the American National Standards Institute, the latest revision shall apply.

ANSI C78.40 *American National Standard Electric Lamps: Specifications for Mercury Lamps*

ANSI C78.1300 Series, *American National Standards Electric Lamps*

ANSI C82.4 *American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge and Low-Pressure Sodium (LPS) Lamps (Multiple-Supply Type).*

ANSI C136.10 *American National Standard for Roadway and Area Lighting Equipment—Locking-Type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing*

ANSI C136.11 *American National Standard for Roadway and Area Lighting Equipment—Multiple Sockets*

ANSI C136.13 *American National Standard for Roadway and Area Lighting Equipment—Metal Brackets for Wood Poles*

ANSI C136.15 *American National Standard for Roadway and Area Lighting Equipment—Luminaire Field Identification*

ANSI C136.17 *American National Standard for Roadway and Area Lighting Equipment—Enclosed Side-Mounted Luminaires for Horizontal-Burning High Intensity Discharge Lamps—Mechanical Interchangeability of Refractors*

ANSI C136.2 *American National Standard for Roadway and Area Lighting Equipment— Luminaire Voltage Classification*