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ANSI C136.14-2014
Revision of ANSI C136.14-2004 (R2009)

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

Secretariat:

National Electrical Manufacturers Association

Approved November 12, 2014

American National Standards Institute

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Foreword (This foreword is not part of American National Standard C136.14-2014.)

At the time this standard was approved, the ANSI C136 committee was composed of the following members:

Alabama Power Company	JEA
American Electric Lighting	Kauffman Consulting, LLC
Caltrans	LED Roadway Lighting Ltd.
Ceravision	LITES
City of Kansas City, Missouri	LUXIM Corp.
City of Los Angeles, Bureau of Street Lighting	Mississippi Power
Cree, Inc.	National Grid
Duke Energy	OSRAM SYLVANIA Inc.
Duke Energy Florida	Philips HADCO
Eaton's Cooper Lighting	Philips Lumec
Edison Electric Institute	PNNL-Battelle
EPRI	ROAM/DTL
EYE Lighting International of N.A., Inc.	SELC Lighting
Florida Power & Light Company	Sensus Metering
FP Outdoor Lighting Controls	Silver Spring Networks
FRE Composites (2005) Inc.	Sollux Consulting
GE Lighting Systems	SouthConn Technologies, Inc.
Georgia Power Company	Stresscrete/King Luminaire
Gulf Power Company	TE Connectivity
Hapco Aluminum Pole Products	Utility Metals Division of Fabricated Metals, LLC
Holophane An Acuity Brands Company	Valmont Composite Structures
Hubbell Lighting, Inc.	Valmont Industries, Inc.
Inovus Solar	Vamas Engineering and Consultants
Intelligent Illuminations Inc.	Xcel Energy
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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 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 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.

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 C78.40-2011, *American National Standard Electric Lamps: Specifications for Mercury Lamps*

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

ANSI C82.4-2002, *American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge and Low-Pressure Sodium (LPS) Lamps (Multiple-Supply Type)*.

ANSI C136.10-2010, *American National Standard for Roadway and Area Lighting Equipment—Locking-Type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing*

ANSI C136.11-2011, *American National Standard for Roadway and Area Lighting Equipment—Multiple Sockets*

ANSI C136.13-2004 (R2009), *American National Standard for Roadway and Area Lighting Equipment—Metal Brackets for Wood Poles*

ANSI C136.15-2011, *American National Standard for Roadway and Area Lighting Equipment—Luminaire Field Identification*

ANSI C136.17-2005 (R2010), *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 C136.2-2004 (R2009), *American National Standard for Roadway and Area Lighting Equipment—Luminaire Voltage Classification*