

NEMA Standards Publication

ANSI C136.23-2012

American National
Standard for Roadway
and Area Lighting
Equipment - Enclosed
Architectural Luminaires

National Electrical Manufacturers Association





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American National Standard

***For Roadway and Area Lighting Equipment—
Enclosed Architectural Luminaires***

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FOREWORD

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

Acuity Brands Lighting
Alabama Power Company
American Electric Lighting
CeraVision
City of Kansas City, Missouri
Cooper Lighting
Duke Energy
Edison Electric Institute
EPRI
Florida Power and Light
FRE Composites (2005) Inc.
GE Lighting Solutions
Georgia Power Company
Gulf Power Company
Hapco
Holophane, An Acuity Brands Company
Hubbell Lighting, Inc.
Intelligent Illuminations Inc.
Kauffman Consulting, LLC
Lites
Los Angeles City Bureau of Street Lighting
National Grid
Philips Hadco
Philips Lumec
PNNL
Progress Energy
Puget Sound Energy
Shakespeare Composite Structures
South Carolina Electric & Gas
SouthConn Technologies, Inc.
StressCrete Group
Sunrise Technologies, Inc., FP OLC
TE Connectivity
Utility Metals Division of Fabricated Metals, LLC
Valmont Industries, Inc.
Vamas Engineering and Consultants
Vandal Shields
Xcel Energy

1 SCOPE

This standard is intended to cover physical, operating, maintenance, and light distribution features that permit use of architectural luminaires in roadway applications when so specified.

The architectural luminaires covered by this standard include side-mounted, square, rectangular, cylindrical, spherical, and other types of decorative or nostalgic historical style luminaires that are considered to be any significant deviation from the luminaire style that has evolved in the industry as predominantly (commonly) known as the *cobra head* style covered in ANSI C136.14.

It is not intended that compliance with this standard will permit interchangeability with existing roadway equipment without thorough engineering review and evaluation.

Structural requirements for poles and brackets shall be evaluated with respect to both strength and vibration. Vibration dampers may be required.

Where specified, architectural luminaires of similar effective projected area and weight meeting the requirements of this standard based on appropriate engineering review and evaluation may be used in roadway applications with the assurance that:

- a) They will fit the standard roadway mounting devices and methods
- b) Light distribution patterns and photometric data available from manufacturers will be consistent with standard roadway luminaires as specified in IES standards.
- c) Physical, operational, and maintenance characteristics will be similar to standard roadway luminaires.

2 NORMATIVE REFERENCES

This standard incorporates by 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/ANS LG C78.40-2011 *American National Standard Electric Lamps: Specifications for Mercury Lamps*

ANSI ANSLG C81.61-2009 *American National Standard for Electrical Lamp Bases.*

ANSI ANSLG C82.1-2004 *American National Standard Specifications for Fluorescent Ballasts* (including supplements).

ANSI ANSLG C82.4-2002 *American National Standard for Ballasts—High-intensity Discharge and Low-pressure Sodium Lamps (Multiple-supply type)*

ANSI ANSLG C82.9-2010 *American National Standard for High-intensity Discharge and Low-pressure Sodium Lamps, Ballasts, and Transformers—Definitions*

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

ANSI C136.11-2011 *American National Standard for Roadway Lighting Equipment—Multiple (Parallel Wired) Sockets*

ANSI C136.13 (R2009) *American National Standard for Roadway Lighting—Metal Brackets for Wood Poles*