

ANSI C136.23-2012

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



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**ANSI C136.23-2012**  
Revision of ANSI C136.23-2006

**American National Standard**  
***For Roadway and Area Lighting Equipment—***  
***Enclosed Architectural Luminaires***

Secretary:

**National Electrical Manufacturers Association**

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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., EP LLC  
TE Connectivity  
Utility Metals Division of Fabricated Metals, LLC  
Valmont Industries, Inc.  
Vamas Engineering and Consultants  
Vandal Shield  
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 the 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 is intended to apply (including amendments).

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

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

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

ANSI/ANSI C82.4-2004 *American National Standard for Ballasts—High-intensity Discharge and Low-pressure Sodium Lamps (Multiple-supply type)*

ANSI/ANSI 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 Pin-Insertion Control 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*