



ANSI/NEMA C136.40-2014

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# American National Standard for Roadway and Area Lighting Equipment-Solar Lighting Systems



**National Electrical Manufacturers Association**  
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**ANSI C136.40-2014**

**American National Standard**

***for Roadway and Area Lighting Equipment—  
Solar Lighting Systems***

Secretariat:

**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:

Alabama Power Company	Kauffman Consulting, LLC
American Electric Lighting	LED Roadway Lighting Ltd.
Caltrans	LITES
Ceravision	LUXIM Corp.
City of Kansas City, Missouri	Mississippi Power
City of Los Angeles, Bureau of Street Lighting	National Grid
Cree, Inc.	OSRAM SYLVANIA Inc.
Duke Energy	Philips HADCO
Duke Energy Florida	Philips Lumec
Eaton's Cooper Lighting	PNNL-Battelle
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FRE Composites (2005) Inc.	Sollux Consulting
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Georgia Power Company	SouthConn Technologies, Inc.
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Hapco Aluminum Pole Products	TE Connectivity
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Hubbell Lighting, Inc.	Valmont Industries, Inc.
Inovus Solar	Vamas Engineering and Consultants
Intelligent Illuminations Inc.	Xcel Energy
Intertek USA, Inc.	
JEA	

## 1 SCOPE

This standard defines the electrical and mechanical requirements of standalone solar-type light systems for use in roadway and area lighting equipment.

## 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 C136.14-2004 *American National Standard for Roadway And Area Lighting Equipment —Elliptically Shaped, Enclosed Side-mounted Luminaires For Horizontal-burning High-intensity Discharge Lamps*

ANSI C136.20-2008 *American National Standard for Roadway and Area Lighting Equipment—Fiber-Reinforced Composite (FRC) Lighting Poles*

ANSI C136.25-2009 *American National Standard for Roadway and Area Lighting Equipment--Ingress Protection*

ANSI C136.36A-2010 *American National Standard for Roadway and Area Lighting Equipment—Aluminum Lighting Poles*

ANSI C136.36B-2008 *American National Standard for Roadway and Area Lighting Equipment—Concrete Lighting Poles*

ANSI C136.36C-2010 *American National Standard for Roadway and Area Lighting Equipment—Steel Roadway and Area Lighting Poles*

ANSI C136.31-2010 *American National Standard for Roadway and Area Lighting Equipment—Luminaire Vibration*

ANSI C136.37 *American National Standard for Roadway and Area Lighting Equipment—Solid State Light Sources Used in Roadway and Area Lighting*

ANSI/NFPA 70 *National Electrical Code*©

ANSI/UL 1703 *Flat-Plate Photovoltaic Modules and Panels*

NEMA 250-2008 *Enclosures for Electrical Equipment (1000 Volts Maximum)*

UL 1741 *Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources*

## 3 INFORMATIVE REFERENCES

This standard is intended to be used in conjunction with the following publications. The latest edition of the publication applies (including amendments).

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*