



ANSI C136.37-2019

American National
Standard For Roadway
and Area Lighting
Equipment— Solid
State Luminaires Used
in Roadway and Area
Lighting



National Electrical Manufacturers Association
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*American National Standard
For Roadway and Area Lighting Equipment—
Solid State Luminaires Used in
Roadway and Area Lighting*

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:

Acuity Brands, Inc.	Intertek
Alabama Power Company	Itron, Inc.
Atlas Lighting Products	JEA
California Lighting Technology Center	Kauffman Consulting, LLC
University of California, Davis	LED Roadway Lighting Ltd
CIMCON Lighting	Legrand North America
City of Kansas City, Missouri	Leotek Electronics USA Corp
City of Los Angeles, Bureau of Street Lighting	Light Smart
Cree, Inc.	Littelfuse, Inc.
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Duke Energy	National Grid
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Gateway International 360	ROAM/DTL
GE Lighting	SELC Ireland Limited
Georgia Power	Sensus, A Xylem Brand
Graeme Lister Consulting	Signify
GreenStar Products, Inc.	South Carolina Electric & Gas
Hancock Consulting	Stresscrete/King Luminaire
Hapco Aluminum Pole Products	Sunrise Technologies, Inc.
Howard Lighting	TE Connectivity
Hubbell Lighting, Inc.	Telematics Wireless
Intelligent Illuminations, Inc.	Telensa
Intermatic Incorporated	Utility Metals Division of Fabricated Metals, LLC
	Valmont Composite Structures
	Valmont Industries, Inc.
	Westire Technology Limited
	Xcel Energy

1 Scope

This Standard defines interchangeability of, and some requirements for, solid-state light (SSL) source fixtures, also referred to as luminaires and/or LED (light-emitting diode) fixtures. These are used in roadway and area lighting applications that are within the scope of various ANSI C136 Standards. This Standard does not address replacement or interchangeability of lamps/light sources.

2 Normative References

This Standard incorporates an undated reference and uses provisions from other publications. These normative references are cited at appropriate places in the text, as well as publications listed below. For undated references, the latest edition of the publication referred to applies (including amendments):

ANSI C78.377 American National Standard for Specifications for the Chromaticity of Solid-State Lighting (SSL) Products

ANSI C82.77 American National Standard for Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment

ANSI C136.2 American National Standard for Roadway and Area Lighting Equipment—Dielectric Withstand and Electrical Transient Immunity Requirements

ANSI C136.3 American National Standard for Roadway and Area Lighting Equipment—Luminaire Attachments

ANSI C136.6 American National Standard for Roadway and Area Lighting Equipment—Metal Heads and Reflector Assemblies—Mechanical and Optical Interchangeability

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

ANSI C136.14 American National Standard for Roadway and Area Lighting Equipment—Elliptically Shaped, Enclosed Side-mounted Luminaires for Horizontal-burning High-intensity Discharge Lamps

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

ANSI C136.16 American National Standard for Roadway and Area Lighting Equipment—Enclosed Post Top-mounted Luminaires

ANSI C136.21 American National Standard for Roadway and Area Lighting Equipment—Vertical Tenons Used with Post Top-mounted Luminaires

ANSI C136.22 American National Standard for Roadway and Area Lighting Equipment—Internal Labeling of Luminaires

ANSI C136.23 American National Standard for Roadway and Area Lighting Equipment—Enclosed Architectural Luminaires

ANSI C136.25 American National Standard for Roadway and Area Lighting Equipment—Ingress Protection (Resistance to Dust, Solid Objects and Moisture) for Luminaire Enclosures

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