NEMA Standards Publication

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

National Electrical Manufacturers Association

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:

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Alabama Power Company
Atlas Lighting Products
California Lighting Technology Center
University of California, Davis
CIMCON Lighting
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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*