NEMA Standards Publication

ANSI C136.42-2019

American National Standard For Roadway and Area Lighting Equipment— Solid State Lighting Retrofit Kits

National Electrical Manufacturers Association

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Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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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.
Alabama Power Company
Atlas Lighting Products, Inc.
CA Lighting Technology Center
CIMCON Lighting
City of Kansas City, Missouri
City of Los Angeles, Bureau of Street- Lighting
Cree, Inc.
Current Powered by GE
Dominion Energy
Duke Energy
Duke Energy Progress
E J Kramer Consulting
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GE Lighting Systems
Georgia Power Company
Greenstar Products, Inc.
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Hapco Aluminum Pole Products
Howard Lighting
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Ripley Lighting Controls
ROAM/DTL
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Sensus, A Xylem Brand
Signify North America Corporation
Stresscrete/King Luminaire
Sunrise Technologies, Inc.
TE Connectivity
Telematics Wireless
Telensa
Utility Metals Division of Fabricated Metals, LLC
Valmont Composite Structures
Valmont Industries, Inc.
Vandal Shields
Westire Technology Limited
Xcel Energy

1 Scope

This Standard defines the mechanical and electrical requirements for transforming an installed HID roadway and area luminaire to a Solid State roadway and area luminaire.
This Standard is limited to non-screw-base retrofit kits only.

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 non-dated references, the latest edition of the publication referred to applies (including amendments).

ANSI C78.377 *American National Standard for Electric Lamps—Specifications for the Chromaticity of Solid-State Lighting Products*

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

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

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

ANSI C136.25 *American National Standard for Roadway and Area Lighting Equipment—Ingress Protection for Luminaire Enclosures*

ANSI C136.31 *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*

IES LM-79 *Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products*

UL 1598 *Standard for Safety for Luminaires*

UL 1598C *Standard for Safety for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits*

FCC 47 CFR part 15 class A—*Non-consumer RFI/EMI standards*

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).

IESNA RP-16 *Nomenclature and Definitions for Illuminating Engineering*

UL 8750 *Light Emitting Diode (LED) Light Sources for Use in Lighting Products*

IEEE Standards Dictionary: Glossary of Terms & Definitions 2009