



**ANSI NEMA C136.42-2024  
(Revision of ANSI NEMA C136.42-2019)**

*American National Standard  
for Roadway and Area Lighting Equipment—  
Solid-state Lighting Retrofit Kits*

Secretariat

**National Electrical Manufacturers Association**

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## Foreword

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## CONTENTS

Foreword .....	ii
1 Scope .....	<b>Error! Bookmark not defined.</b>
2 Normative References .....	<b>Error! Bookmark not defined.</b>
3 Informative References .....	<b>Error! Bookmark not defined.</b>
4 Definitions .....	<b>Error! Bookmark not defined.</b>
5 General Requirements .....	<b>Error! Bookmark not defined.</b>
5.1 Compliance to ANSI C136.37 .....	<b>Error! Bookmark not defined.</b>
5.2 Installation .....	2
5.3 Mechanical Requirements .....	2
5.4 Environmental Requirements .....	2
6 Electrical Requirements .....	2
6.1 Electrical Immunity .....	2
6.2 Grounding and Electrical Clearance .....	2
6.3 Power Factor (PF) and Total Harmonic Distortion (THD) .....	3
6.4 Nominal Input Voltage .....	3
7 LED Lumen Maintenance .....	3
8 Operating Temperature .....	3
9 Chromaticity .....	3
10 External Identification Of Light Source Labeling .....	3
10.1 Exterior Wattage Marker .....	3
10.2 Interior Marking .....	3
10.3 Other Markings and Instructions .....	3

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## 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*

ANSI/IES LS-1, *Lighting Science: Nomenclature and Definitions for Illuminating Engineering*

ANSI/IES LM-79, *Optical and Electrical Measurement of Solid-State Lighting Products*

ANSI/IES LM-80, *Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources*

ANSI/IES TM-21, *Technical Memorandum: Projecting Long-Term Luminous, Photon, and Radiant Flux Maintenance of LED Light Sources*

*IEEE Standards Dictionary: Glossary of Terms & Definitions* (2009)

UL 1598C, *Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits*

UL 8750, *Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products*

## 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).

FCC 47 CFR Part 15 Class A, *Non-consumer RFI/EMI standards*

UL 1598, *Standard for Safety for Luminaires*