

ANSI C136.3-2020 Revision of ANSI C136.3-2014

American National Standard for Roadway and Area Lighting Equipment—
Luminaire Attachments

Secretariat:

National Electrical Manufacturers Association

Approved: March 3, 2020

American National Standards Institute, Inc.

NOTICE AND DISCLAIMER

The information in this publication was considered technically sound by the consensus of persons engaged in the development and approval of the document at the time it was developed. Consensus does not necessarily mean that there is unanimous agreement among every person participating in the development of this document.

American National Standards Institute, Inc. (ANSI) Standards and guideline publications, of which the document contained herein is one, are developed through a voluntary consensus Standards development process. This process brings together volunteers and/or seeks out the views of persons who have an interest in the topic covered by this publication. While NEMA administers the process and establishes rules to promote fairness in the development of consensus, it does not write the document and it does not independently test, evaluate, or verify the accuracy or completeness of any information or the soundness of any judgments contained in its Standards and guideline publications.

NEMA disclaims liability for any personal injury, property, or other damages of any nature whatsoever, whether special, indirect, consequential, or compensatory, directly or indirectly resulting from the publication, use of, application, or reliance on this document. NEMA disclaims and makes no guaranty or warranty, express or implied, as to the accuracy or completeness of any information published herein, and disclaims and makes no warranty that the information in this document will fulfill any of your particular purposes or needs. NEMA does not undertake to guarantee the performance of any individual manufacturer or seller's products or services by virtue of this Standard or guide.

In publishing and making this document available, NEMA is not undertaking to render professional or other services for or on behalf of any person or entity, nor is NEMA undertaking to perform any duty owed by any person or entity to someone else. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstances. Information and other Standards on the topic covered by this publication may be available from other sources, which the user may wish to consult for additional views or information not covered by this publication.

NEMA has no power, nor does it undertake to police or enforce compliance with the contents of this document. NEMA does not certify, test, or inspect products, designs, or installations for safety or health purposes. Any certification or other statement of compliance with any health- or safety-related information in this document shall not be attributable to NEMA and is solely the responsibility of the certifier or maker of the statement.

AMERICAN NATIONAL STANDARD

Approval of an American National Standard requires verification by the American National Standards Institute, Inc. (ANSI) that the requirements for due process, consensus, and other criteria for approval have been met by the Standards developer.

Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means significantly more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and a concerted effort be made toward their resolution.

The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether they have approved the Standards or not, from: manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the Standards.

The American National Standards Institute, Inc., does not develop Standards, and will under no circumstances give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute, Inc. Requests for interpretations should be addressed to the secretariat or sponsor whose name appears on the title page of this Standard.

Caution Notice: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute, Inc., require that action be taken periodically to reaffirm, revise, or withdraw this Standard. Purchasers of American National Standards may receive current information on all Standards by calling or writing the American National Standards Institute, Inc.

Published by

National Electrical Manufacturers Association 1300 North 17th Street, Suite 900 Rosslyn, VA 22209

© 2020 National Electrical Manufacturers Association. All rights, including translation into other languages, reserved under the Universal Copyright Convention, the Berne Convention for the Protection of Literary and Artistic Works, and the International and Pan American copyright conventions.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

Printed in the United States of America

Foreword

At the time this Standard was approved, the ANSI C136 committee was composed of the following Members: This section shall be updated prior to publishing.

Acuity Brands LED Roadway Lighting
Alabama Power Company Legrand, North America
American Electric Power Leotek Electronics, USA Corp

Amphenol Canada Corp. Light Smart
Atlas Lighting Products, Inc. Littlefuse, Inc.

California Lighting Technology Center, UC Davis

Caltrans

CIMCON Lighting

City of Kansas City, Missouri

City of Los Angeles, Bureau of Street Lighting

Comptek Technologies
Cooper Lighting Solutions

Cree Lighting
Dominion Energy
Duke Energy

Duke Energy Progress

EPRI

Excellence Opto, Inc.
EYE Lighting International

Florida Power and Light Company

Gateway International 360. GE Current, a Daintree Company

Georgia Power Company Graeme Lister Consulting GreenStar Products, Inc. Hancock Consulting

Hapco Aluminum Pole Products

Howard Lighting Hubbell Lighting, Inc. Intelligent Illuminations, Inc. Intermatic Incorporated

Intertek USA Itron, Inc. JEA

Kauffman Consulting, LLC

Littlefuse, Inc.
Lumispec Consulting
Mississippi Power
National Grid
NightSwitch LLC

OSRAM SYLVANIA, Inc

Pacific Northwest National Laboratory

Phoenix Lighting PSEG Power Radian Research, Inc.

Realterm Energy.

Ripley Lighting Controls LLC

ROAM/DTL

SELC Ireland Limited

Signify North America Corporation

Solais Lighting, INC.

South Carolina Electric & Gas StressCrete/King Luminaire Sunrise Technologies, Inc. Tampa Electric Company

TE Connectivity
Telematics Wireless

Telensa

TESCO The Eastern Specialty Company.

Ubicquia

Utility Metals Division of Fabricated Metals, LLC

Valmont Composite Structures

Valmont Industries, Inc.

Vandal Shields

Watthour Engineering Company, Inc.

Westire Technology Limited

Xcel Energy.

CONTENTS

	vord	
1 S	Scope Normative References	1 1
3 I	Informative References	1
4.1		
4.2	2 Luminaire Heads Conforming to ANSI C136.14	2
4.3	Luminaire Heads Other Than Those Covered in 4.1 and 4.2	2
5 F 6 F 6.1	Post Top–Mounted Luminaires Pendant-Mounted Luminaires NPT Thread Mount	3
6.2	Pall and Socket Mount	3
6.3	8 Moisture Mitigation	3
Tables		
Table		
Table	2 Slipfitter Requirements for Section 4.2	2
Table	3 Slipfitter Requirements for Section 4.3	2

< This page intentionally left blank. >

1 Scope

This Standard covers attachment features of luminaires used in roadway and area lighting equipment. The features covered apply to luminaires that are side, post-top–, or pendant-mounted.