

ANSI C136.5-2003 (R2013, S2019) Stabilized Maintenance of ANSI C136.5-2003 (R2013)

American National Standard For Roadway and Area Lighting Equipment— Film Cutouts

Secretariat:

National Electrical Manufacturers Association

Approved: January 29, 2019

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 (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 ANSI. ANSI states 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 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. 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 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.

Published by

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

© 2019 National Electrical Manufacturers Association

All rights reserved 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, and without the prior written permission of the publisher.

Printed in the United States of America.

ANSI C136.5-2003 (R2013, S2019) Page ii					

<This page intentionally left blank.>

CONTENTS

1		Scope	. 1
2		Normative References	. 1
3		General	. 1
4		Physical Characteristics	. 1
	4.1	Dimension	
	4.2	Contact Pressure	1
	4.3	Temperature and Breakdown	1
5		Identification	

Foreword

Kauffman Consulting, LLC

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

University of California, Davis

CIMCON Lighting

City of Kansas City, Missouri

City of Los Angeles, Bureau of Street Lighting

LeD Roadway Lighting

Legrand, North America

Leotek Electronics USA Corp

Cree, Inc.

Light Smart

Current, powered by GE

Dominion Energy

Duke Energy

Littelfuse, Inc.

Mississippi Power

National Grid

Duke Energy - Progress OSRAM SYLVANIA Inc.

E J Kramer Consulting, LLC PNNL

Eaton Lighting Solutions PSEG Power

EPRI Radian Research, Inc.

Excellence Opto. Inc Ripley Lighting Controls, Inc.

EYE Lighting International of N.A., Inc. ROAM/DTL

Florida Power and Light SELC Ireland Limited
Gateway International 360. Sensus, A Xylem Brand

GE Lighting Signify

Georgia Power Company South Carolina Electric & Gas

GreenStar Products, Inc. StressCrete Ltd/King Luminaire Co., Inc.

Hancock Consulting Sunrise Technologies, Inc.

Hapco Aluminum Pole Products TE Connectivity
Howard Lighting Telematics Wireless

Hubbell Lighting, Inc.

Telensa

Intelligent Illuminations Inc Utility Metals Division of Fabricated Metals, LLC

Intermatic Incorporated Valmont Structures

Vandal Shields

Westire Technology Limited

Xcel Energy

1 Scope

This standard covers operating and dimensional features of single-shot film cutouts used with series roadway lighting equipment and circuits, and function by dielectric breakdown and subsequent partial fusing of components to establish a shunting electrical circuit to bypass non-operative series roadway lighting equipment.