



ANSI C82.9-2016

American National
Standard for Lamp
Ballasts—
High-Intensity
Discharge and
Low-Pressure
Sodium Lamps—
Definitions





ANSI C82.9-2016

*American National Standard for Lamp Ballasts—
High-Intensity Discharge and
Low-Pressure Sodium Lamps—
Definitions*

Secretariat:

National Electrical Manufacturers Association

Approved: July 12, 2016

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.

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 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, expressed 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. An American National Standard implies a consensus of those substantially concerned with its scope and provisions. 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 much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution.

The existence of an American National Standard does not in any respect preclude anyone, whether s/he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards. It is intended as a guide to aid the manufacturer, the consumer, and the general public.

The American National Standards Institute, Inc., does not develop standards and will in 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 this title page.

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, Virginia 22209

© 2016 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 prior written permission of the publisher.

Printed in the United States of America

Foreword (This foreword is not part of American National Standard C82.9)

Suggestions for improvement of this standard should be submitted to the Secretariat C82 American National Standard Lighting Group, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.

This standard was processed and approved by the Accredited Standards Committee on Electric Lamps, C82. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

CONTENTS

Forewordii

1. Scope 1

 1.1 Important Patent Disclaimer.....1

2. Normative References 1

3. Definitions 2

< This page intentionally left blank. >

1 Scope

This standard provides definitions related to specific terms contained in HID and LPS lamps and ballast standards.

1.1 Important Patent Disclaimer

At the time of publication, it is possible that some of the elements of this document may be the subject of patent rights. When this Standard was approved for publication, the National Electrical Manufacturers Association (NEMA) did not know of any patent applications, patents pending, or existing patents. NEMA shall not be held responsible for identifying any or all such patent rights.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ANSI C78.40	<i>American National Standard for Electric Lamps—Specifications for Mercury Lamps</i>
ANSI C78.41	<i>American National Standard for Electric Lamps—Guidelines for Low-Pressure Sodium (LPS) Lamps</i>
ANSI C78.42	<i>American National Standard for Electric Lamps—High-Pressure Sodium (HPS) Lamps</i>
ANSI C78.43	<i>American National Standard for Electric Lamps—Single-Ended Metal Halide Lamps</i>
ANSI C78.44	<i>American National Standard for Electric Lamps—Double-Ended Metal Halide Lamps</i>
ANSI C78.380	<i>American National Standard for Electric Lamps—High-Intensity Discharge (HID)—Method of Designation</i>
ANSI C82.4	<i>American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge and Low-Pressure Sodium (LPS) Lamps (Multiple—Supply Type)</i>
ANSI C82.5	<i>American National Standard for Reference Ballasts—High-Intensity-Discharge and Low-Pressure Sodium Lamps</i>
ANSI C82.6	<i>American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge (HID) Lamps—Methods of Measurement</i>
ANSI C82.7	<i>Mercury Lamp Transformers—Constant-current (Series) Supply Type</i>
ANSI C82.14	<i>American National Standard for Lamp Ballasts—Low-Frequency Square Wave Electronic Ballasts—for Metal Halide Lamps</i>
ANSI C92.1	<i>Power Systems—Insulation Coordination</i>
ANSI/IEEE 4	<i>Techniques for High Voltage Testing</i>
ANSI/IEEE 100	<i>Dictionary of Electrical and Electronics Terms</i>
ANSI/IESNA RP-27.3	<i>Recommended Practice for Photobiological Safety for Lamps—General Requirements</i>
ANSI/IESNA RP-27.3	<i>Recommended Practice for Photobiological Safety for Lamps—Risk Group Classification and Labeling</i>