ANSI C136-36B-2008

American National Standard for
Roadway and Area Lighting Equipment—
Concrete Lighting Poles

Secretariat
National Electrical Manufacturers Association

Approved June 30, 2008
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.

NEMA 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 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 direct 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 use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he has 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 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. 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 procedure of the American National Standards Institute requires 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.
This page intentionally left blank.
## Contents

NOTICE AND DISCLAIMER............................................................................................................. ii

1 Scope ............................................................................................................................................... 1

2 Normative references....................................................................................................................... 1

3 Informative references ..................................................................................................................... 1

4 Definitions ........................................................................................................................................ 1

5 General ............................................................................................................................................ 2

6 Pole classification and design considerations ................................................................................. 3

7 Wiring and access............................................................................................................................ 4

8 Marking ............................................................................................................................................ 5

9 Standard tolerances......................................................................................................................... 5

10 Testing ............................................................................................................................................. 6

11 Acceptance criteria for interpreting test results ............................................................................... 7

12 Base-plate poles .............................................................................................................................. 7

13 Allowable deflection ....................................................................................................................... 7

### Tables

1 Design requirements for various classifications .............................................................................. 3

2 Maximum allowable deflection with standard assumptions .......................................................... 7
This page intentionally left blank.
FOR ROADWAY AND AREA LIGHTING EQUIPMENT—
CONCRETE LIGHTING POLES

1 Scope

This standard applies to concrete lighting poles used in roadway and area lighting equipment and includes nomenclature, performance criteria, marking and recordkeeping requirements, and certain minimal material needs. It does not cover concrete poles manufactured with any modified concrete mix incorporating the use of polymers or other modifiers.

2 Normative references

This standard incorporates, by undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed below. For undated references, the latest edition of the publication referred to applies (including amendments).

ASTM C-33, Pre-stressing Steel Reinforcement.
ASTM C-150, Cement.
ASTM C-494, Admixtures.

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).

CSA A14 - 00, Concrete Poles
ASTM A82-97a, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement.

4 Definitions

anchor base: A base plate attached to the butt of a pole by approved means to accommodate anchor bolts connected to a foundation.

aperture: Any opening in a pole more than 50mm (2in) across the width, or more than 100mm (4in) along the length of the pole.

arm: A structural member attached approximately perpendicularly to a pole to which a luminaire may be attached.

bolt circle: The diameter of a circle that intersects the anchor bolts that are spaced an equal distance from each other.