

ANSI C136.20-2012

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American National  
Standard for Roadway  
and Area Lighting  
Equipment -  
Fiber-Reinforced  
Composite (FRC)  
Lighting Poles





**ANSI C136.20-2012**  
Revision of ANSI C136.20-2008

**American National Standard**

***For Roadway and Area Lighting Equipment—  
Fiber-Reinforced Composite (FRC) Lighting Poles***

**Secretariat:**

**National Electrical Manufacturers Association**

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## Table of Contents

1	SCOPE.....	1
2	REFERENCES .....	1
	2.1 Normative References.....	1
	2.2 Informative References.....	1
3	DEFINITIONS.....	1
4	GENERAL.....	2
	4.1 Pole Strength .....	2
5	SHAFTS.....	3
	5.1 Composition of Shafts.....	3
	5.2 Exterior Surface of Shafts.....	3
	5.3 Direct-burial Poles .....	3
	5.4 Anchor Base Poles .....	3
	5.5 Poles for Post-top Luminaires .....	3
6	BOLT CIRCLES.....	4
7	LUMINAIRE SUPPORT ARMS.....	4
8	WIRING AND WIRING ACCESS .....	4
	8.1 Wiring.....	4
	8.2 Wiring Access.....	4
9	IDENTIFICATION.....	5
10	PERFORMANCE .....	5
	10.1 General.....	5
	10.2 Physical .....	5
11	BREAKAWAY SUPPORTS .....	6
12	POLE DEFLECTION MEASUREMENTS.....	6
	12.1 General.....	6
	12.2 Method I.....	6
	12.3 Method II.....	6
	12.4 Method III.....	7

**FIGURES**

**FIGURE 1 BOLT CIRCLE.....3**  
**FIGURES 2A, 2B, 2C DEFLECTION MEASUREMENT METHODS.....8**

## FOREWORD

At the time this standard was approved, the ANSI C136 committee was composed of the following members:

Acuity Brands Lighting  
Alabama Power  
American Electric Lighting  
CeraVision  
City of Kansas City, Missouri  
City of Los Angeles, Bureau of Street Lighting  
Cooper Lighting  
Duke Energy  
Edison Electric Institute  
EPRI  
Florida Power and Light  
FRE Composites Inc.  
GE Lighting  
Georgia Power Company  
Gulf Power Company  
Hapco Aluminum Pole Products  
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South Carolina Electric & Gas Co.  
SouthConn Technologies, Inc.  
StressCrete Ltd/King Luminaire Co., Inc.  
Sunrise Technologies, Inc./FP Outdoor Lighting Controls  
TE Connectivity  
Utility Metals Division of Fabricated Metals, LLC  
Valmont Industries, Inc.  
Vamas Engineering and Consultants  
Vandal Shields  
Xcel Energy

## 1 SCOPE

This standard applies to fiber-reinforced composite (FRC) lighting poles used for roadway and area lighting. This standard includes nomenclature, dimensional data, performance criteria, and some interchangeability features for standard poles as well as those that must meet breakaway requirements for poles as described in AASHTO LTS *Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*.

## 2 REFERENCES

### 2.1 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).

AASHTO LTS *Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*

ANSI C136.3 *American National Standard for Roadway and Area Lighting Equipment—Luminaire Attachments*

ANSI C136.13 *American National Standard for Roadway and Area Lighting Equipment—Metal Brackets of Wood Poles Used in Roadway Lighting*

ANSI C136.21 *American National Standard for Roadway and Area Lighting Equipment—Vertical Tenons Used with Post Top-Mounted Luminaires*

ASTM G154 *Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials*

### 2.2 Informative References

This standard is intended to be used in conjunction with the following publications. The latest edition of the publication applies (including amendments).

ASTM A153 *Specifications for Zinc Coating (Hot-Dip) on Iron and Steel Hardware*

## 3 DEFINITIONS

**Anchor Base:** A feature attached to the bottom end of a pole designed to be mounted on an accommodating platform.

**Anti-Rotational Device:** A device attached to the pole at a point below ground level to ensure the pole does not twist after installed and in service.

**Arm:** A structural member approximately perpendicular to a pole, which supports a luminaire.

**Bolt Circle:** The diameter of a circle that will intersect the centerline of the anchor bolts that are spaced equal distance to each other.

**Direct Burial:** A term used to refer to a pole designed to be supported by surrounding earth or other material.