



ANSI/NEMA C136.10-2017

American National
Standard for
Roadway and Area
Lighting Equipment—
Locking-Type
Photocontrol Devices
and Mating
Receptacles—Physical
and Electrical
Interchangeability and
Testing

National Electrical Manufacturers Association



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ANSI C136.10-2017
Revision of ANSI C136.10-2010

*American National Standard for
Roadway and Area Lighting Equipment—
Locking-Type Photocontrol Devices and Mating
Receptacles—Physical and Electrical
Interchangeability and Testing*

Secretariat

National Electrical Manufacturers Association

Approved October 27, 2017

American National Standards Institute, Inc.

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Published by

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

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Printed in the United States of America

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FOREWORD

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1 Scope

This standard covers the following roadway and area lighting equipment, which may be physically and electrically interchanged to operate within established values:

- a. Locking type photocontrol herein referred to as “photocontrol.”
- b. Locking type mating receptacle herein referred to as “receptacle.”
- c. Shorting and open caps.

2 References

2.1 Normative References

This standard incorporates by 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).

ANSI C136.2-2015 *American National Standard for Roadway and Area Lighting Equipment—Luminaire Voltage Classification*

ANSI/IEEE C62.41 *IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits*

ANSI/UL 773-2002 *Plug-In Locking Type Photocontrols for Use with Area Lighting*

UL 94-2013 *Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*

ANSI C136.41-2014 *American National Standard for Roadway and Area Lighting Equipment—Dimming Control Between an External Locking Type Photocontrol and Ballast*

ANSI C136.25-2013 *American National Standard for Roadway and Area Lighting Equipment—Ingress Protection (Resistance to Dust, Solid Objects, and Moisture) for Luminaire Enclosures*

ASTM B117-11 *Standard Practice for Operating Salt Spray (Fog) Apparatus*

ASTM G154-12a *Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.*

3 Definitions

3.1 fail-off photocontrol: A photocontrol designed with a switching device that is electrically open when supply power is removed from the photocontrol.

3.2 fail-on photocontrol: A photocontrol designed with a switching device that is electrically closed when the supply power is removed from the photocontrol.

3.3 fast acting photocontrol: Turn-off and/or turn-on response time is between 0.5 and 5.0 seconds.

3.4 follow current: The current from the connected power source that flows through an arrester during and following the passage of discharge or surge current.

3.5 horizontal illuminance (HI): Luminous flux per unit area (density) normal to a horizontal plane.

3.6 instant acting photocontrol: Turn-off and/or turn-on response time is less than 0.5 seconds.