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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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Secretariat:

National Electrical Manufacturers Association

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For Roadway and Area Lighting Equipment—Locking-Type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing

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 non-shorting 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 C136.2-2004 *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*

IESNA LM-48-01 *Guide for Testing the Calibration of Locking-Type Photoelectric Control Devices*

Journal of the Illuminating Engineering Society Vol. 21, No. 2, Summer 1992, pp 54-56

UL 94-1996 *Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*

2.2 Informative References

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

IESNA DG-13-1998 *Selection of Photocontrols for Outdoor Lighting Applications*

3 Definitions

3.1 fail-off photocontrol: A photocontrol designed such that the load remains off when the most likely failure occurs.

3.2 fail-on photocontrol: A photocontrol designed such that the load remains on when the most likely failure occurs.

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