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American National Standard for Lamp Ballasts - Ballasts for High-Intensity Discharge Lamps - Methods of Measurement

National Electrical Manufacturers Association

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn. VA 2220
www.NEMA.org

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American National Standard for Lamp Ballasts—Ballasts for High-Intensity Discharge Lamps—Methods of Measurement

Secretariat:

National Electrical Manufacturers Association

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Foreword

This foreword is not part of American National Standard C82.6-2015 (R2020).

Suggestions for improvement of this Standard are welcomed. They should be sent to Secretariat C82 Committee, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209.

This Standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Lamp Ballasts, C82. Approval of the Standard does not necessarily imply that all work group Members voted for its approval.

This Standard is a reaffirmation of ANSI C82.6-2015.

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1 Scope

This Standard describes the procedures to be followed and the precautions to be taken in measuring performance of low-frequency ballasts (electromagnetic and electronic ballasts that operate at less than 400 Hz) for high-intensity discharge (HID) lamps. Deviations from the procedures given in this Standard are permissible for production or other testing provided that the methods used give results in substantial agreement with the method given herein. In case of doubt, reference shall be made to the specified methods to establish the validity of the results obtained by any alternate procedure.

1.1 Patent Disclaimer

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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 C78.40-2011*, Mercury Lamps—Specifications*

ANSI C78.42-2007, *High-Pressure Sodium Lamps*

ANSI C78.43-2013 *Single-Ended Metal Halide Lamps*

ANSI C78.44-2008 *Double-Ended Metal Halide Lamps*

ANSI C78.389-2004, *High-Intensity Discharge—Methods of Measuring Characteristics*

ANSI C82.4-2002*, Ballasts for High-Intensity Discharge and Low-Pressure Sodium Lamps (Multiple Supply Type)*

ANSI C82.5-2010, *Reference Ballasts for High-Intensity Discharge Lamps*

ANSI C82.7-1983, *Mercury Lamp Transformers—Constant Current (Series) Supply Type*

ANSI C82.9-1996*, Definitions for High-Intensity Discharge and Low-Pressure Sodium Lamps, Ballasts, and Transformers*

ANSI C84.1-1995*, for Electric Power System and Equipment, Voltage Ratings (60 Hz)*

ANSI C92.1-1982, *Power Systems— Insulation Coordination*

ANSI/IEEE 100-1984, *Dictionary of Electrical and Electronic Terms*

ANSI/UL 1029-2001, *High-Intensity Discharge Lamp Ballasts*

3 Definitions

Definitions of terms that apply specifically to the subject treated in this Standard are given in ANSI C82.9 and C92.1. For additional definitions, see ANSI/IEEE 100.