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*American National Standard for Lamp Ballasts—
Low-Frequency Square Wave
Electronic Ballasts—for Metal Halide Lamps*

Secretariat:

National Electrical Manufacturers Association

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American National Standards Institute, Inc.

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Foreword (This foreword is not part of American National Standard C82.14)

Suggestions for improvement of this standard are welcome. They should be sent to Secretariat, C82 Committee, NEMA, 1300 North 17th Street, Suite 900, Rosslyn, Virginia 22209.

This standard was processed and approved for submittal to ANSI by the C82 Committee. Approval of the standard does not necessarily imply that all work group members voted for its approval.

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1 Scope

This standard provides specifications for and operating characteristics of low-frequency square wave electronic ballasts for metal halide lamps. Electronic ballasts are devices that use semiconductors to control lamp starting and operation. The ballasts operate from multiple supply sources of 600 V maximum at a frequency of 60 Hz. The output frequency of electronic ballasts may be of some frequency other than 60 Hz. This standard covers only lamp operating current frequencies from greater than 60 Hz up to 400 Hz (some exclusionary frequency ranges may apply). An electronic square wave ballast is defined as an electronic ballast whose operating lamp current waveform is essentially a square wave with defined rise/fall times stated in the ANSI C78.43 lamp standards.