American National Standard for Light-Emitting Diode Drivers—Methods of Measurement

Secretariat:

National Electrical Manufacturers Association

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Foreword

This foreword is not part of ANSI C82.16-2020.

This is a revision of ANSI C82.16-2015.

Suggestions for improvement on this Standard will be welcome. They should be sent to the following address:

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This Standard was developed and approved for submittal to ANSI by the Accredited Standards Committee (ASC) on Lamp Ballasts, C82. Approval of this Standard is not meant to imply that all committee Members voted to approve it.
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1. General

1.1. Purpose
This document complements Standards and specifications that set performance limits, such as NEMA SSL 1, and provides testing methods.

1.2. Scope
This Standard describes the procedures to be followed and the precautions to be taken in measuring performance of LED drivers commonly used in general lighting, exterior lighting, and roadway lighting, and similar applications. The scope includes LED drivers that may have these characteristics:

   a. Input supply voltage up to 600 VDC or 600 VAC (60 or 50/60 Hz)
   b. Output open-circuit voltage of 600 V or less
   c. Constant-current or constant-voltage direct current (DC) output
   d. Fixed, pulse-width modulation, or programmable (tunable or dimmable) output power
   e. External (standalone) or internal (enclosed in luminaire)