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*American National Standard for Lighting Equipment—
LED Drivers Robustness*

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 ANSI C82.15)

This is a new Standard.

Suggestions for improvement of this Standard should be submitted to:

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This Standard was processed and approved by Accredited Standards Committee (ASC) C82. Committee approval of the Standard does not necessarily imply that all committee Members voted for that approval.

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1 Purpose and Scope

1.1 Purpose

LED light source technologies are expected to have a longer useful life than traditional light sources. The lifetime of the LED lighting system is greatly influenced by the robustness of the LED driver; therefore, the purpose of these tests is to demonstrate a high level of robustness for the driver.

1.2 Scope

This Standard applies to hardware and microcontroller (microprocessor)-based LED drivers. This American National Standard describes testing methods used to evaluate LED driver robustness or a driver's ability to withstand the specific stresses described within.

The scope includes LED drivers that operate from supply sources up to 600 V and 50/60 Hz or DC applications. This Standard is the first of its type developed by the ANSI C82 committee; it includes only limited type tests in its first edition.