

NEMA 410-2015

Performance Testing for Lighting Controls and Switching Devices with Electronic Drivers and Discharge Ballasts



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*Performance Testing for Lighting Controls and Switching Devices
with Electronic Drivers and Discharge Ballasts*

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Foreword

The purpose of this standard is to provide guidance for the design and testing of lighting controls and switching devices to be used with electronic drivers, discharge ballasts, and self-ballasted lamps. This document defines the worst case inrush current expected to be encountered in field installations, and establishes uniform test criteria for compatibility.

In the preparation of this standard, input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the NEMA Wiring Device Section and Lighting Systems Division by contacting:

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This is the second edition of this guide.

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A NEMA working group that included representatives from the Lighting Systems Division and members of the Wiring Device Section developed this standard. Approval of this guide does not necessarily imply that all members voted for its approval or participated in its development.

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Section 1

SCOPE

This standard covers the definition, measurement, and testing of characteristics relevant to the use and application of lighting controls and electronic drivers, discharge ballasts, and self-ballasted lamps.

This standard covers devices rated 120 Vac, 277 Vac, and 347 Vac intended to control electronic drivers, discharge ballasts, and self-ballasted lamp loads up to 16 amps of steady state current.

This standard does not cover or require additional testing for 15 A and 20 A general-use ac snap switches tested and listed in accordance with UL 20/CSA C22.2 No. 111, which includes a high-inrush tungsten lamp load endurance test. They have been evaluated and determined to be compatible with the electronic drivers, discharge ballasts, and self-ballasted lamps as described in this publication.