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Phase-Cut Dimming for Solid State Lighting: Basic Compatibility

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Foreword

The NEMA Solid State Lighting section has prepared this standard, *Phase-Cut Dimming for Solid State Lighting: Basic Compatibility*. This standard provides compatibility requirements for phase-cut dimming for LED light engines and is suitable for global use.

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 concerned NEMA product subdivision by contacting:

Senior Technical Director, Operations
National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

Section approval of the standard does not necessarily imply that all section members voted for its approval or participated in its development.

At the time the standard was approved, the Lighting Controls and Light Source sections were composed of the following members:

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Section 1 GENERAL

1.1 Scope

This standard provides compatibility requirements when a forward phase-cut dimmer is combined with one or more dimmable LED Light Engines (LLEs). An LLE, for the purposes of this document, comprises one or more LED modules, LED control gear (integral or remote), and a connection to the mains circuit¹. Three configurations of LED light engines are shown below (Figure 1-1).