



ANSI C82.77-1-2020

*American National Standard for Lighting Equipment—
Electromagnetic Compatibility (EMC)
General Requirements and Criteria*

Secretariat:

National Electrical Manufacturers Association

Approved: May 1, 2020

American National Standards Institute, Inc.

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Foreword

This foreword is not part of ANSI C82.77-1-2020.

This is a new Standard.

Suggestions for improvement on this Standard are welcome, and 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. Scope

This Standard defines the electromagnetic compatibility “EMC” (immunity and Interference) performance levels, testing methods, and performance criteria for lighting products in a frequency range from 0 to 400 GHz.

This Standard applies to lighting products intended to be directly connected to the mains (up to 600V), DC (up to 250VDC), battery-operated, or to a non-public, low voltage power distribution system.

In the United States, high-frequency emissions are regulated by the Federal Communications Commission (FCC) 47 CFR Parts 15 and 18.

For a Standard on Inrush Currents, see NEMA 410 *Performance Testing for Lighting Controls and Switching Devices with Electronic Drivers and Discharge Ballasts*.