American National Standard for Lighting Equipment—
Voltage Surge Requirements

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 C82.77-5-2017.)

Suggestions for improvement of this standard are welcome. They should be submitted to:

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This standard was developed and approved for submittal to ANSI by Accredited Standards Committee C82 on Electric Lamp Ballasts. Approval of this standard is not meant to imply that all Accredited Standards Committee members voted to approve it.
CONTENTS

Foreword .............................................................................................................................................. ii

1 Scope................................................................................................................................................ 1
  1.1 General ...................................................................................................................................... 1
  1.2 Surge Testing ............................................................................................................................ 1
  1.3 Failure Criteria ........................................................................................................................... 1
  1.4 Location Category Criteria ......................................................................................................... 1
  1.5 Exposure Levels ........................................................................................................................ 2

2 Specific Lighting Equipment Surge Voltage Limits by Product Type and Application .............. 3
  2.1 Residential Lighting Equipment ................................................................................................. 3
    2.1.1 Integrally Ballasted Medium Screw Based Light Sources ................................................ 3
    2.1.2 Indoor Hard-wired Luminaires and Indoor Portable Luminaires ........................................ 4
  2.2 Commercial Lighting Equipment ................................................................................................ 5
    2.2.1 Integrally Ballasted and Medium Screw Based Light Sources ........................................... 5
    2.2.2 Indoor Hard-wired Luminaires and Indoor Portable Luminaires (Typically Office Lighting Luminaires) .......................................................... 6
    2.2.3 Task Lighting, Down Lighting, and Modular Office Furniture Luminaires .................... 7
    2.2.4 Outdoor Luminaires ........................................................................................................ 8
    2.2.5 High Bay Luminaires ......................................................................................................... 9
  2.3 Industrial Lighting Equipment .................................................................................................. 10
    2.3.1 Indoor Hard-wired Non–High Bay Luminaires ............................................................... 10
    2.3.2 Outdoor Hard-wired Non-roadway Luminaires .............................................................. 11
    2.3.3 High Bay Luminaires ...................................................................................................... 12
    2.3.4 Sports, Convention and Roadway Lighting Equipment ................................................ 13
    2.3.5 Roadway Lighting Luminaires ........................................................................................ 14
    2.3.6 Stage and Studio Lighting Equipment ........................................................................... 15
    2.3.7 Stage and Studio Lighting Applications Using Indoor Hard-wired Luminaires .............. 16

Annex Selection of Peak Values of Standard Waveforms (ANSI C62.41) .................................. 16

Tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1</td>
<td>Failure Criteria</td>
<td>1</td>
</tr>
<tr>
<td>Table 2</td>
<td>Location Category Criteria</td>
<td>2</td>
</tr>
<tr>
<td>Table 3</td>
<td>Exposure Level Criteria for Category C Locations in Table 2</td>
<td>2</td>
</tr>
<tr>
<td>Table 4</td>
<td>Surge Voltage Limits for Integrally Ballasted Medium Screw Base, Residential Compact Light Sources</td>
<td>3</td>
</tr>
<tr>
<td>Table 5</td>
<td>Surge Voltage Limits for Indoor Hard-wired and Indoor Portable Luminaires</td>
<td>4</td>
</tr>
<tr>
<td>Table 6</td>
<td>Surge Voltage Limits for Integrally Ballasted Medium Screw Base, Commercial Compact Light Sources</td>
<td>5</td>
</tr>
<tr>
<td>Table 7</td>
<td>Surge Voltage Limits for Indoor Hard-wired and Indoor Portable Luminaires</td>
<td>6</td>
</tr>
<tr>
<td>Table 8</td>
<td>Surge Voltage Limits for Task Lighting, Down Lighting and Modular Office Furniture Luminaires</td>
<td>7</td>
</tr>
<tr>
<td>Table 9</td>
<td>Surge Voltage Limits for Outdoor Luminaires</td>
<td>8</td>
</tr>
<tr>
<td>Table 10</td>
<td>Surge Voltage Limits for High Bay Luminaires</td>
<td>9</td>
</tr>
<tr>
<td>Table 11</td>
<td>Surge Voltage Limits for Indoor Hard-wired Non–High Bay Luminaires</td>
<td>10</td>
</tr>
<tr>
<td>Table 12</td>
<td>Surge Voltage Limits for Outdoor Non-roadway Luminaires</td>
<td>11</td>
</tr>
</tbody>
</table>
Table 13 Surge Voltage Limits for High Bay Luminaires ................................................................. 12
Table 14 Surge Voltage Limits for Sports Arenas and Convention Center Luminaires ................. 13
Table 15 Surge Voltage Limits for Roadway Lighting Luminaires ..................................................... 14
Table 16 Surge Voltage Limits for Stage and Studio Luminaires with Integrally Ballasted Medium Screw Compact Light Sources for Indoor or Outdoor Use .................................................... 15
Table 17 Surge Voltage Limits for Stage and Studio Lighting Applications Using Indoor Hard-wired Luminaires .................................................................................................................. 16
1 Scope

This standard specifies voltage surge limits and testing requirements for lighting equipment. It covers all types of lighting equipment used for general illumination (typically found in residential, commercial, and industrial applications) and connected to any of the following commonly distributed 60 Hz alternating current (AC) power line systems:

a) 120 V, Single Phase  
b) 220/230 V, Single Phase  
c) 208/240 V, Single Phase  
d) 277 V, Single Phase  
e) 347 V, Single Phase  
f) 480 V, Single Phase  
g) 480 V, 3 Phase

Note: These line voltages are nominal and include commonly encountered nameplate variations of the above. As an example, products rated at either 117, 120, or 125 V AC would be covered as nominal 120 V systems.

This standard covers lighting equipment in terms of application and wattage (operating input power level).