



ANSI/NEMA C82.9-2010

American National Standard for Lamp Ballasts-High-Intensity Discharge and Low- Pressure Sodium Lamps-Definitions



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ANSI_ANSLG C82.9-2010

Revision, Consolidation, and Redesignation of
ANSI C82.9-1996 and ANSI C82.9b-1998

American National Standard

for Lamp Ballasts—
High-Intensity Discharge and
Low-Pressure Sodium Lamps—
Definitions

American National Standard

Approved: March 30, 2010 Secretariat: American National Standard Lighting Group

for lamp ballasts:

High-Intensity Discharge and Low-Pressure Sodium Lamps — Definitions

American National Standard

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Foreword (This foreword is not part of American National Standard C82.9-2010.)

Suggestions for improvement of this standard should be submitted to the Secretariat C82 American National Standard Lighting Group, 1300 North 17th Street, Suite 1752, Rosslyn, VA 22209.

This standard was processed and approved by the Accredited Standards Committee on Electric Lamps, C82, and its Work Group C82WG02. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

Amendment / Change	CDV	RV
Revision and Consolidation	CDV_82_m727	RV_82_m728

This standard provides definitions relative to specific terms contained in High-Intensity Discharge (HID) and Low-Pressure Sodium (LPS) lamps and ballast standards.

Included in this revision/consolidation are the additions of the following definitions. These items are redlined throughout the standard for the reader's convenience:

- Aggregate Pulse
- Commutation Time
- Electronic Square-Wave Ballast
- Electromagnetic Compatibility (EMC)
- High Frequency Ripple Current
- Lamp Code Designation (LCD)
- Lamp Type Classification Letter
- Luminaire Characteristic Letter
- Pulse Burst
- Resonant Burst Ignition
- Spectral Power Density
- Stiff line
- Aggregate Width
- Electrical Number
- Electronic High Frequency Ballast
- EMI electromagnetic interference
- Inrush Current
- Lamp End of Life
- Line Transient (Surges)
- Peak Current Ratio (PCR)
- Rectifying Lamp Current
- Rise and Fall Times
- Spectral Power Ratio
- Total Harmonic Distortion (THD)

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1 Scope

This standard provides definitions related to specific terms contained in HID and LPS lamps and ballast standards.

1.1 Important Patent Disclaimer

It is possible that some of the elements of this document may be the subject of patent rights. When this document was approved for publication, ANSLG did not know of any patent applications, patents pending, or existing patents. ANSLG shall not be held responsible for identifying any or all such patent rights.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ANSI C78.40-1998 (R2008), *Specifications for Mercury Lamps*

ANSI C78.41-2006, *Guidelines for Low Pressure Sodium Lamps*

ANSI C78.42-2009, *High Pressure Sodium Lamps*

ANSI C78.43-2007, *Single-Ended Metal Halide Lamps*

ANSI C78.44-2008, *Double-Ended Metal Halide Lamps*

ANSI C78.380-2007, *High-Intensity Discharge Lamps, Method of Designation*

ANSI C82.4-2002 (R2007), *Ballasts for High-Intensity Discharge and Low-Pressure Sodium Lamps (Multiple-Supply Type)*

ANSI C82.5-1990 (R2007), *Reference Ballasts for High-Intensity Discharge Lamps*

ANSI C82.6-2005 and C82.6a-1988, *Reference Ballasts for High-Intensity Discharge Lamps - Methods of Measurement*

ANSI C82.7-1983 (R2007), *Mercury Lamp Transformers - Constant-current (Series) Supply Type*