



ANSI/NEMA C82.4-2002

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American National  
Standard for Ballasts  
for High-Intensity  
Discharge and Low-  
Pressure Sodium (LPS)  
Lamps (Multiple-  
Supply Type)



**National Electrical Manufacturers Association**  
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# American National Standard

Approved June 6, 2002

Secretariat: ANSLG National Electrical Manufacturers Association

## For Lamp Ballasts--

### Ballasts For High-Intensity-Discharge and Low-Pressure Sodium Lamps (Multiple-Supply Type)

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**Foreword** (This Foreword is not part of ANSI C82.4-2002.)

Suggestions for improvement of this standard should be submitted to the Secretariat C82, American National Lighting Group of the National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209. This standard was processed and approved by Accredited Standards Committee on Lamp Ballasts, C82, and its Work Group, C82-2. Committee approval of the standard does not necessarily imply that all committee members voted for that approval.

Information concerning the approval of this standard is based on the documents listed in the table below:

<b>Amendment / Change</b>	<b>CDV</b>	<b>RV</b>
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At the time it approved this standard, the ASC 82 Committee had the following members:

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**Allan Brown, Technical Coordinator**

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# AMERICAN NATIONAL STANDARD

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## For Lamp Ballasts— Ballasts For High-Intensity-Discharge and Low- Pressure Sodium Lamps (Multiple-Supply Type)

### 1 Scope

This standard provides specifications for and operating characteristics of ballasts for mercury, metal-halide, high-pressure sodium (HPS), and low-pressure sodium (LPS) lamps. The ballasts operate from multiple-supply sources of 300 volts maximum at a frequency of 60 hertz. They may be designed for operation under either indoor or outdoor conditions.

The following types of ballasts are excluded from this standard:

- (1) Ballasts consisting of resistance only
- (2) Transformers for constant current (series) operation of mercury lamps (see American National Standard for Mercury Lamp Transformers - Constant Current (Series) Supply Type, ANSI C82.7-1983 (R1988))
- (3) All ballasts that use semiconductors to control the lamp power.

### 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 - 1993	<i>Specifications for Mercury Lamps</i>
ANSI C78.41 - 1995	<i>Guidelines for Low Pressure Sodium Lamps</i>
ANSI C78.42 - 1995	<i>High Pressure Sodium Lamps</i>
ANSI C78.1372 - 1996	<i>70 Watt M98 Metal-Halide Lamp</i>
ANSI C78.1374 - 1996	<i>50 Watt M110 Metal-Halide Lamp</i>
ANSI C78.1375 - 1996	<i>400 Watt M59 Metal-Halide Lamp</i>
ANSI C78.1376 - 1996	<i>1000 Watt M47 Metal-Halide Lamp</i>
ANSI C78.1377 - 1996	<i>175 Watt M57 Metal-Halide Lamp</i>
ANSI C78.1378 - 1996	<i>250 Watt M58 Metal-Halide Lamp</i>