



ANSI/NEMA C82.3-2002

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# American National Standard for Reference Ballasts for Fluorescent Lamps



**National Electrical Manufacturers Association**  
1300 North 17th Street, Suite 900 • Rosslyn, VA 22209  
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**ANSI C82.3-2002**  
**Revision of ANSI C82.3-1983 (R1995)**

**American National Standard**

for lamp ballasts—

**Reference Ballasts  
for Fluorescent Lamps**

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# American National Standard

Approved September 4, 2002

Secretariat: ANSLG National Electrical Manufacturers Association

## For Lamp Ballasts-- Reference Ballasts for Fluorescent Lamps

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**Foreword** (This Foreword is not part of ANSI C82.3-2002.)

Suggestions for improvement of this standard should be submitted to the Secretariat C82, American National Standard 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 (ASC) on Electric Lamps, C82, and its Work Group C82-1. 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 had the following members:

**Howard Wolfman, Chair ASC 82**  
**David Mullen, Technical Coordinator**  
**Randolph N. Roy, Secretariat**  
**Ken Denton, Consulting Editor**

***Organization Represented:***

***Name of Representative:***

Advance Transformer Company .....	Robert Erhardt
Cooper Lighting (NEMA Delegate) .....	Donald Miletich
Edison Electric Institute (Delegate) .....	Al Maguire
GE Lighting .....	Edward Yandek
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InterTek Testing Services .....	David Edwards
	David Ellis
Lithonia/Hi-Tek Lighting (NEMA Delegate) .....	Fred Carpenter
MagneTek Lighting Products Group .....	Bill Brosius
	Michael Stein
OCRAM SYLVANIA .....	Howard Wolfman
	Joe Parisella
Philips Lighting Company .....	Al Rousseau
Underwriters Laboratories Inc. ....	John Marshall
	David Belt

At the time it approved this standard, the C82-1 Work Group had the following members:

**Ken Denton, Chairman, C82-1**  
**John Marshall, Vice Chairman**  
**Randolph N. Roy, Secretariat**

**Organization Represented:**

**Name of Representative:**

Advance Transformer Company .....	Robert Erhardt
GE Lighting .....	Edward M. Yandek
Howard Industries Inc.....	Wayne Causey
	Eric Brown
Industrias Sola Basic.....	Emilio Catan G.
	Gerardo Arias
InterTek Testing Services.....	David Edwards
Lutron Electronics Co. Inc. ....	Robert Newman Jr.
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	Al C. Rousseau
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# AMERICAN NATIONAL STANDARD

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## for Lamp Ballasts-- Reference Ballasts for Fluorescent Lamps

### 1 Scope

This standard describes the essential design features and operating characteristics of reference ballasts for fluorescent lamps. The items specified are those that have been found necessary to ensure accurate and reproducible results when either lamps or ballasts are being tested. It includes requirements for both line frequency and high frequency circuits. The specific values of rated input voltage and impedance for each size of lamp are listed in the applicable ANSI C78 lamp standard.

### 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 C78.81-2001 – *Double-capped fluorescent lamps - dimensional and electrical characteristics*

ANSI C78.901-2001 – *Single base fluorescent lamps - dimensional and electrical characteristics*

ANSI C78.375-1997 - *Fluorescent lamps - guide for electrical measurements*

ANSI C82.1-1997 – *Line frequency fluorescent lamp ballast*

ANSI C82.11-2002 - *High frequency fluorescent lamp ballasts (Consolidated)*

ANSI C82.13-2002 – *definitions-for fluorescent lamps and ballasts*

### 3 Definitions

See ANSI C82.13 for related definitions.