



ANSI 82.1-2004 (R2008, R2015, S2020)

American National
Standard for Lamp
Ballast— Line
Frequency Fluorescent
Lamp Ballast



National Electrical Manufacturers Association
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*American National Standard for Lamp Ballast—
Line Frequency Fluorescent Lamp Ballast*

Secretariat:

National Electrical Manufacturers Association

Approved: April 3, 2020

American National Standards Institute, Inc.

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Published by

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

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Printed in the United States of America

Foreword

(This foreword is not part of American National Standard C82.1-2004 (S2020).)

This Standard is being maintained under the stabilized maintenance option. Proposals for modification or improvement of this Standard are welcome. They should be sent to the

National Electrical Manufacturers Association,
1300 North 17th Street, Suite 900
Rosslyn, VA 22209 or sent via the NEMA website (<http://www.nema.org>).

This Standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Lamp Ballasts, C82. Approval of the Standard does not necessarily imply that all working group Member s voted for its approval.

CONTENTS

1.	Scope	1
2.	Normative References	1
3.	Definitions	2
4.	Ballast Marking	2
4.1	Marking	2
4.2	Color coding of Ballasts Leads	2
5.	Ballast Performance	4
5.1	General	4
5.2	Starting Conditions	4
5.3	Ballast Output	7
5.4	Cathode Preheating Current	9
5.5	Regulation	9
5.6	Operating-Current Waveshape	9
5.7	Supplementary Cathode Heating	10
5.8	Voltage across Starter Terminals	10
5.9	Radio-Interference Suppression	11
5.10	Ballast Safety	11
6.	Design Center Voltages	11
7.	Application Requirements	12
7.1	Limits for Contact Resistance	12
7.2	Operating Temperature Limits	12
7.3	Supply Voltage Limits	12
7.4	Equipment Grounding	12
7.5	Audible Sound Level	13

TABLES

Table 1	Color Coding for Multi-lamp Ballast Leads	4
Table 2	Required Starting Current for Instant-Start Ballasts	6
Table 3	Required Starting Current for Two-Lamp Series-Sequence Type Ballasts for 96-Inch T-12 Instant-Start Lamps	6
Table 4	Required Starting Current for Two-Lamp Series-Sequence Type Ballasts for 48-Inch T-12, 40-Watt T-12, or 40-Watt T-17, Instant-Start Lamps.....	7
Table 5	Tolerances of Minimum Ballast Factor and Current Requirements for Switch-Start and Instant-Start Ballasts.....	7
Table 6	Tolerance of Minimum Ballasts Factor for Rapid Start Circuits.....	8
Table 7	Maximum RMS Volts across Starter Terminals	11
Table 8	Design Center Input Voltages	11
Table 9	Maximum Contact Resistance	12

1. Scope

This Standard is intended to cover ballasts which have rated open-circuit voltages of 2000 volts¹ or less and are intended to operate lamps at a frequency of 50 Hz or 60 Hz.² This comprises ballasts for hot-cathode fluorescent lamps, either switch-start (preheat-start), rapid-start (continuously heated cathodes), modified rapid start (cathode cutout), or instant-start, and also ballasts for cold-cathode fluorescent lamps, used primarily for lighting purposes, which come within this voltage range. The ballast and lamp combinations covered by this specification normally are intended for use in room ambient temperatures of 10°C to 40°C. At ambient temperatures outside this range, certain special operating characteristics may be required.

2. Normative References

This Standard is intended to be used in conjunction with the following American National Standards. When these Standards are superseded by a revision approved by the American National Standards Institute, Inc., the revision shall apply:

ANSI/NFPA 70	<i>National Electrical Code</i>
ANSI C78.81-2003	<i>Double-capped Fluorescent Lamps—Dimensional and Electrical Characteristics</i>
ANSI C78.901-2001	<i>Single base Fluorescent Lamps—Dimensional and Electrical Characteristics</i>
ANSI C82.2-2002	<i>Fluorescent Lamp Ballasts—Methods of Measurement</i>
ANSI C82.3-2002	<i>Reference Ballasts for Fluorescent Lamps</i>
ANSI C82.11-2002	<i>High Frequency Fluorescent Lamp Ballasts</i>
ANSI C82.13-2002	<i>Definitions—for Fluorescent Lamps and Ballasts</i>
ANSI/UL 935-2001	<i>Standards for Safety—Fluorescent Lamp Ballasts</i>

1. See ANSI/NFPA 70 or related Standards for requirements for various voltage classifications.

2. See ANSI C82.11-2002 for high frequency fluorescent ballast specifications.