

AMERICAN NATIONAL STANDARD



*for Ophthalmics –*

*Devices for Low Vision*



**ANSI**<sup>®</sup>  
**Z80.9-2004**  
Revision of  
ANSI Z80.9-1998

American National Standard  
for Ophthalmics –  
Devices for Low Vision

Secretariat

**Optical Laboratories Association**

Approved January 10, 2005

**American National Standards Institute, Inc.**

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## *Developed by*

The Accredited Committee Z80 for Ophthalmic Standards -  
Optical Laboratories Association  
Z80 Secretariat  
P. O. Box 2000  
Merrifield, VA 22116-2000

## Published by

Optical Laboratories Association  
P. O. Box 2000  
Merrifield, VA 22116-2000

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Printed in the United States of America

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**Foreword** (This foreword is not part of American National Standard ANSI Z80.9-2004.)

The Z80 Standards Committee for Ophthalmic Lenses was organized in 1956. The Committee's initial standard was issued in 1964. At the beginning of 1970, the Z80 Standards Committee was reorganized, with the Optical Society of America serving as secretariat. In 1972, the Committee was authorized to broaden its scope from "prescription glass ophthalmic lenses" to "prescription ophthalmic lenses." In 1975, the scope of the committee was further broadened to "ophthalmic standards." On May 21, 1985, the Z80 Committee became the Accredited Standards Committee on Ophthalmic Standards with the Optical Laboratories Association serving as secretariat. Current ophthalmic standards are drafted by subcommittees of the Z80 Committee. These subcommittees, in turn, establish working groups and consultant appointments,

In 1998, the Z80 Committee approved adoption of ISO 15253, Optical Devices for Low Vision, as ANSI Z80.9-1998. In 2004, upon review of ANSI Z80.9-1998, the Z80 Committee further approved inclusion of ISO 15254, Electro-Optical Devices for Low Vision, into the revision of ANSI Z80.9, thus creating a single standard that includes all classes of devices for Low Vision.

Suggestions for improvement of this standard will be welcome. They should be sent to the Optical Laboratories Association, P.O. Box 2000, Merrifield, VA 22116-2000.

This standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Ophthalmics, Z80. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the Z80 Committee had the following members:

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# American National Standard for Ophthalmics –

## Devices for Low Vision

### 1 Scope

This Standard applies to optical and electro-optical devices specified by the manufacturer for use by visually impaired persons as low-vision devices. It specifies optical and mechanical requirements and test methods. It includes devices with optical and/or electrical and/or electronic components used for image capture or display.

### 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 Z80.1-1999, *Ophthalmics – Prescription ophthalmic lenses – Recommendation*

ANSI Z80.3-2001, *Ophthalmics – Nonprescription sunglasses and fashion eyewear – Requirements*

ANSI Z80.5-2004, *Requirements for ophthalmic frames*

ISO/DIS 15004, *Ophthalmic instruments - Fundamental requirements and test methods*

IEC 598-1, *Safety of Luminaires - Part 1: General requirements and tests*

IEC-CCISPR 15, *Limits and methods of measurement of radio interference characteristics of power supply with high frequency*

IEC 801-2

IEC 801-3

MPRII: MPR 1990:8/MPR 1990:10, *Requirements for low frequency discharge*

UL 60606-1, *Requirements for electrostatic discharge*

ISO 12870, *Ophthalmic optics – Spectacle frames – General requirements and test methods*