# ISO 8980-3:2013-10 (E)

## Ophthalmic optics - Uncut finished spectacle lenses - Part 3: Transmittance specifications and test methods

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Symbols ..... 4

5 Classification ..... 4

6 Requirements ..... 4
6.1 General ..... 4
6.2 General transmittance requirements ..... 5
6.3 Spectral transmittance requirements of spectacle lenses intended for road use and driving ..... 6
6.4 Additional transmittance requirements for special types of spectacle lenses ..... 6
6.5 Resistance to radiation ..... 7

7 Test methods ..... 8
7.1 General ..... 8
7.2 Spectral transmittance ..... 8
7.3 Luminous transmittance and relative visual attenuation coefficient (quotient) ..... 8
7.4 Ultraviolet transmittance ..... 8
7.5 Transmittance properties of photochromic spectacle lenses and photochromic specimens ..... 9
7.6 Test methods for polarizing spectacle lenses ..... 11
7.7 Determination of resistance to radiation ..... 13

8 Identification ..... 14

Annex A (normative) Spectral data for calculating relative visual attenuation quotients for incandescent signal lights ..... 15

Annex B (normative) Calculation of solar UV transmittance values ..... 20

Annex C (normative) Cut-on filter for UV filtering ..... 22

Annex D (informative) Spectral data for calculating relative visual attenuation quotients for LED signal lights ..... 25

Annex E (informative) Spectral radiation risks ..... 28

Annex F (informative) Example of the calculation of luminous transmittance,V ..... 29

Bibliography ..... 31