

Adress Ul. Kapitańska 9
81-331 Gdynia
Phone +48 531-382-106
E-mail pomiary@laboratoriumfotometryczne.pl
WWW laboratoriumfotometryczne.pl

Measuring protocol No.2019/08/27-4

EyeShield glasses transmittance test

Date of measurement: 2019-07-23

The study was carried out in accordance with the latest engineering knowledge and standards:

PN-EN 13032-4:2015-09 - Light and lighting - Measurement and presentation of photometric data on lamps and lighting fittings

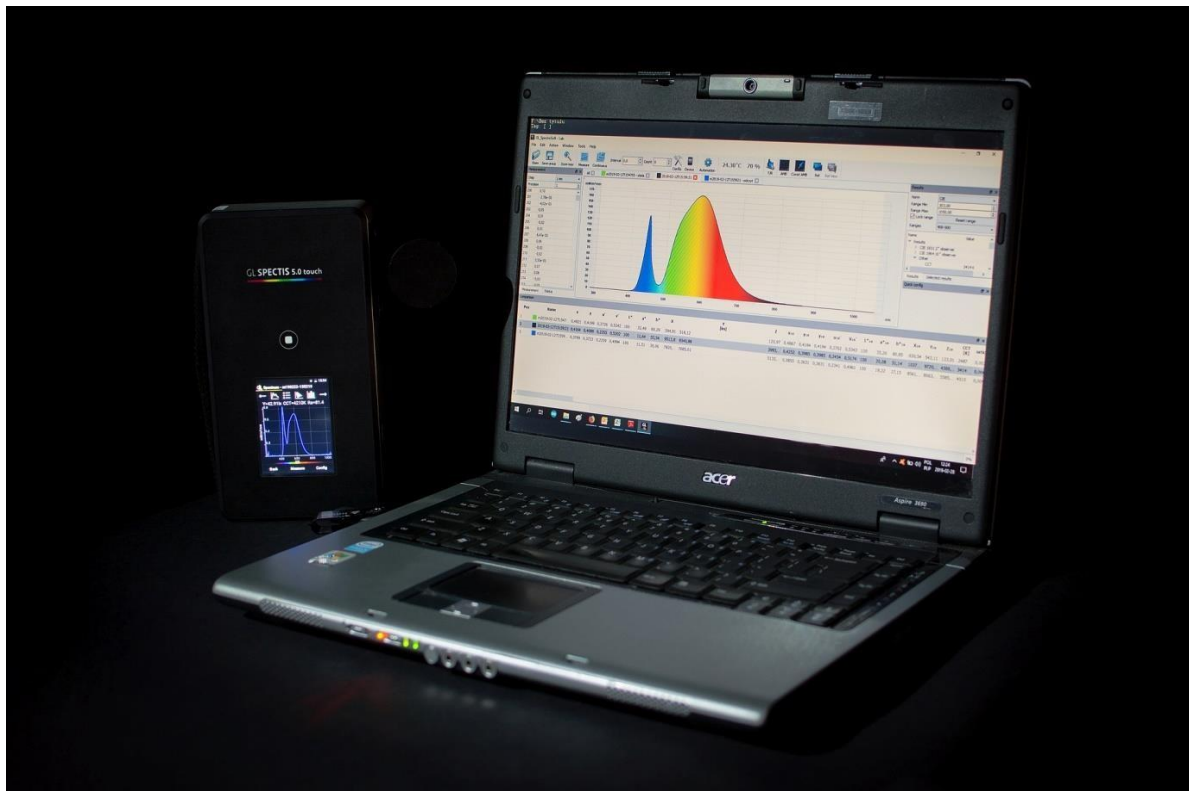
PN-EN 60598-1:2015-04 - General requirements and tests

Tests carried out at the ViTom Light & Energy Independent Photometric Laboratory using the following equipment:
spectrometer GL Spectis 5.0 Touch GL Optic (200nm-1050nm),

RESULTS

Testing conditions

The test was carried out on a sunny cloudless day under constant lighting conditions. We used the Spectis 5.0 touch spectrometer from GL Optic together with the laboratory software Spectrosoft and a specially prepared adapter. The measuring range is 200nm ÷ 1050nm.



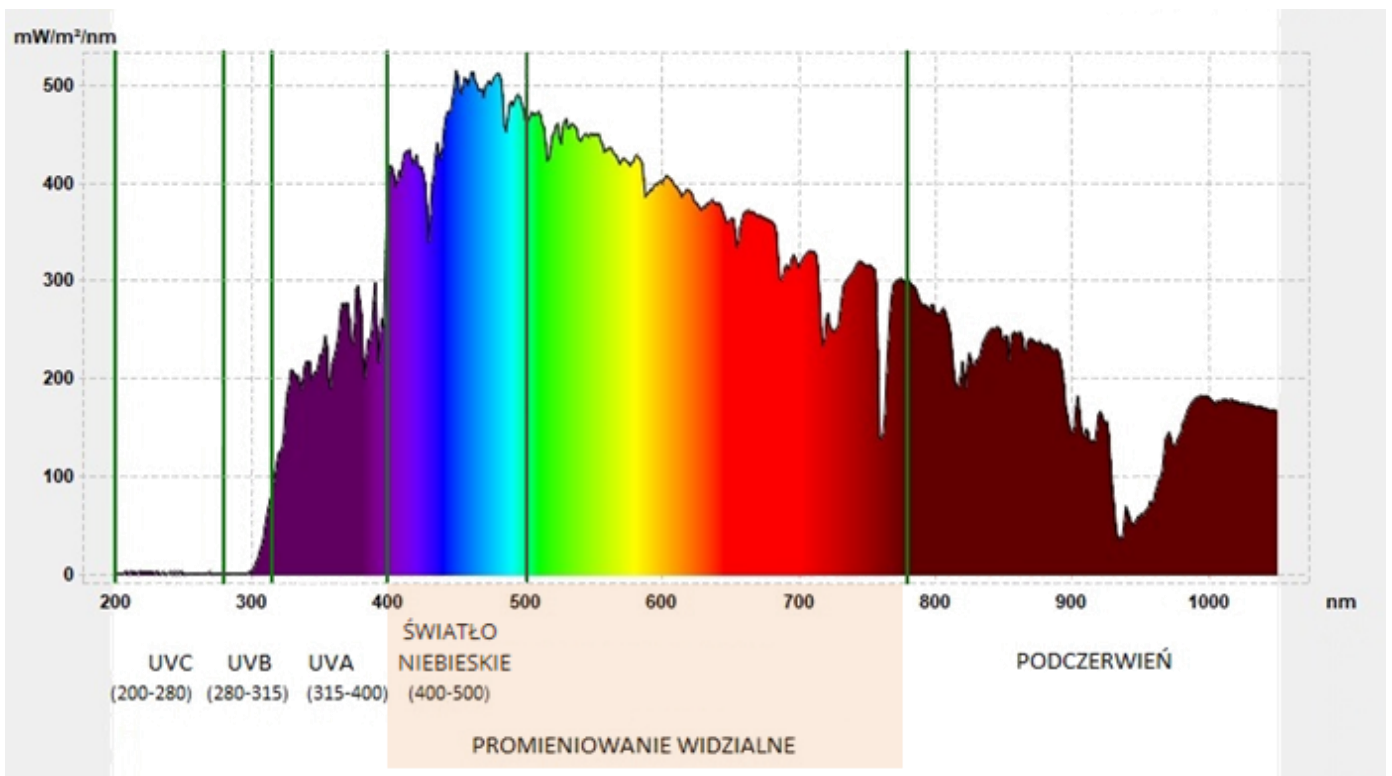
Tested glasses:

EyeShield glasses



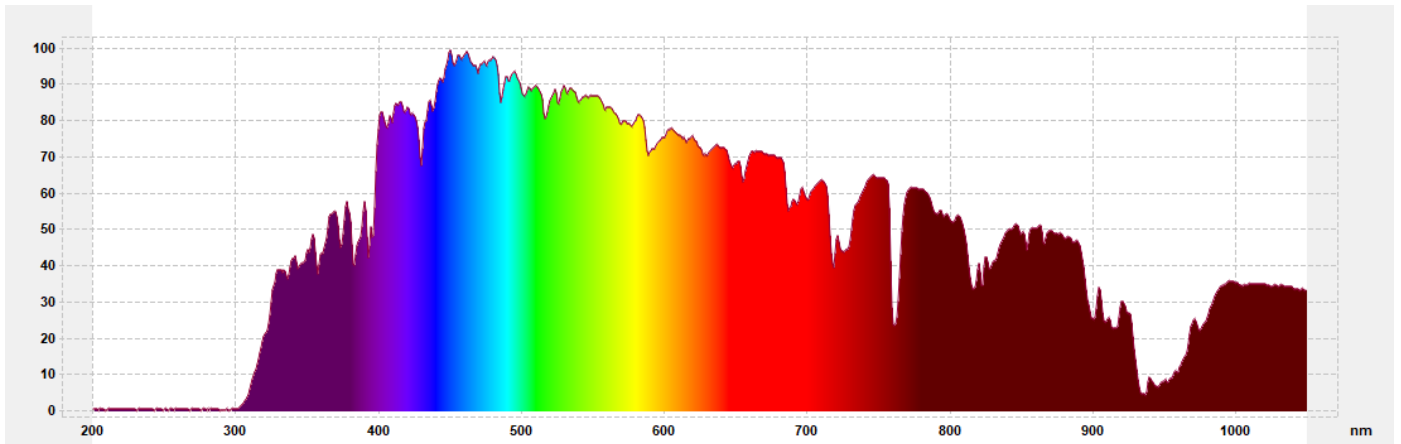
Spectrum range

The following spectral ranges were used in the study:

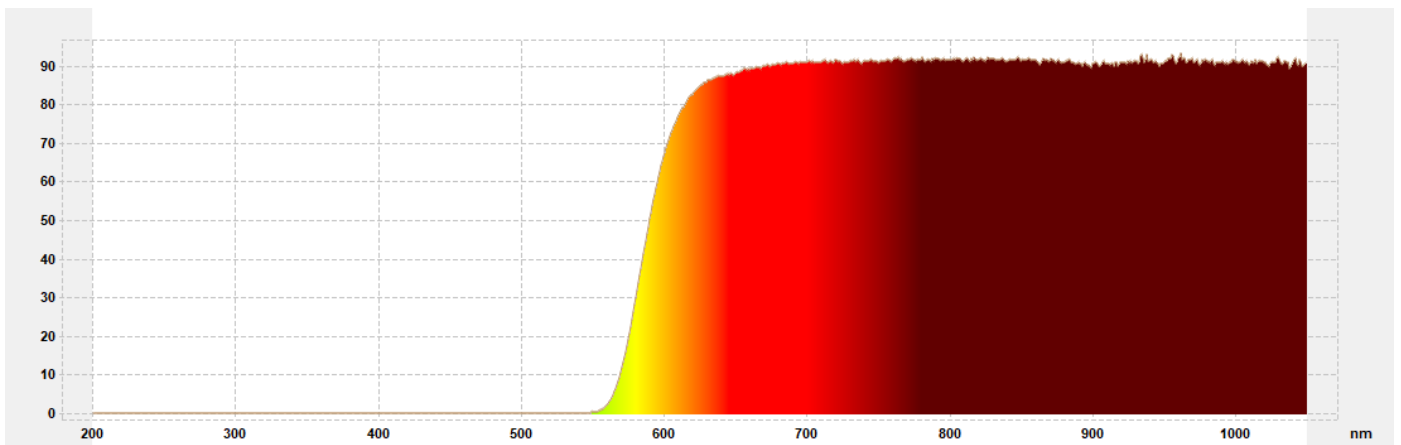


Results

The reference source had the following spectrum:



Transmittance looked as follows:



Transmittance parameters

Average transmittance in the visible range (400nm ÷ 780nm): 45,33%

Minimum transmittance in the visible range (400nm ÷ 780nm): 0,00%

Maximum transmittance in the visible range (400nm ÷ 780nm): 92,23%

Average transmittance in the UV range (200nm ÷ 400nm): 0,00%

Minimum transmittance in the UV range (200nm ÷ 400nm): 0,00%

Maximum transmittance in the UV range (200nm ÷ 400nm): 0,00%

Average transmittance in the blue light range (400nm ÷ 500nm): 0,00%

Minimum transmittance in the blue light range (400nm ÷ 500nm): 0,00%

Maximum transmittance in the blue light range (400nm ÷ 500nm): 0,00%

EyeShield glasses completely block UV range up to 400nm and blue light in the range of 400nm ÷ 500nm.

Average transmittance in the green light range (487nm ÷ 570nm): 0,85%

Minimum transmittance in the green light range (487nm ÷ 570nm): 0,00%

Maximum transmittance in the green light range (487nm ÷ 570nm): 10,56%

Average transmittance in the yellow light range (565nm ÷ 590nm): 25,07%

Minimum transmittance in the yellow light range (565nm ÷ 590nm): 5,03%

Maximum transmittance in the yellow light range (565nm ÷ 590nm): 49,98%

Average transmittance in the orange light range (589nm ÷ 627nm): 72,03%

Minimum transmittance in the orange light range (589nm ÷ 627nm): 47,61%

Maximum transmittance in the orange light range (589nm ÷ 627nm): 85,00%

Average transmittance in the red light range (627nm ÷ 780nm): 90,09%

Minimum transmittance in the red light range (627nm ÷ 780nm): 85,00%

Maximum transmittance in the red light range (627nm ÷ 780nm): 92,23%

The measurement was made by:
Mgr inż. Tomasz Przytarski



NIP: 9581135053 Tel. (+48) 531-382-106

