

Lens Certification Report

 Customer: **Shopivo Sp. z o.o.**

 Remark: **EVI DESIGN**

 Lens type: **Anti-Blue 99%**

 Lens Name: **2118**

Standard:ISO 12312-1:2022

Item	Requirement	Value	Result
Filter Category		1	
Luminous Transmittance Tv	43% - 80%	45.41 %	PASS
Incandescent Lights			
Q.Red	>=0.80	1.93	PASS
Q.Yellow	>=0.60	1.48	PASS
Q.Green	>=0.60	0.73	PASS
Q.Blue	>=0.60	0.31	FAILED
Tmin (475-650 nm)	>=9.08 % (0.2Tv)	0.23 %	PASS
Tsuva (315-380 nm)	<=45.41 % (Tv)	0.00 %	PASS
Tsubv (280-315 nm)	<=2.27 % (0.05Tv)	0.00 %	PASS
Tsuv (280-380 nm)		0.00 %	
Tsb (380-500 nm)		0.19 %	
Road Use And Driving			FAILED
Driving In Twilight or Night	Tv>=75 %	45.41 %	NOT
LED Signal Lights			
Q.Red	>=0.80	1.93	PASS
Q.Yellow	>=0.60	1.77	PASS
Q.Green	>=0.60	0.21	FAILED
Q.Blue	>=0.60	0.07	FAILED

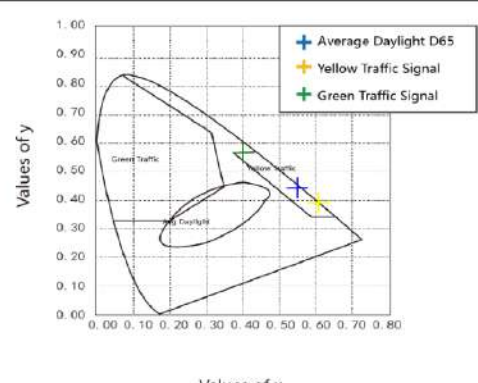
Standard: ANSI Z80.3:2018

Item	Requirement	Value	Result
Lens Primary Function		Cosmetic Lens	
Luminous Transmittance Tv	> 40 %	46.08 %	PASS
Colour Distortion			
Yellow (X,Y)		(0.6062,0.3930)	PASS
Green (X,Y)		(0.4015,0.5655)	FAILED
D65 (X,Y)		(0.5497,0.4445)	FAILED
Traffic Signals Transmittance			
Tsig, Red Signal	>=8.00 %	89.01 %	PASS
Tsig, Yellow Signal	>=6.00 %	71.66 %	PASS
Tsig, Green Signal	>=6.00 %	28.95 %	PASS
Tmin (475-650 nm)	>=9.22 % (0.2Tv)	0.23 %	PASS
Tmax UVB (280-315 nm)	<=5.76 % (0.125Tv)	0.00 %	PASS
Tmax UVA (315-380 nm)	<=46.08 % (Tv)	0.00 %	PASS
Tsb (380-500 nm)		0.19 %	

Standard: AS/NZS 1067.1:2016+A1-2021

Item	Requirement	Value	Result
Filter Category		1	
Luminous Transmittance	43% - 80%	45.42 %	PASS
Incandescent Lights			
Q.Red	>=0.80	1.93	PASS
Q.Yellow	>=0.60	1.48	PASS
Q.Green	>=0.60	0.73	PASS
Q.Blue	>=0.70	0.31	FAILED
Tmin (475-650 nm)	>=9.08 % (0.2Tv)	0.23 %	PASS
Tsuva (315-400 nm)	<=45.42 % (Tv)	0.00 %	PASS
Tsubv (280-315 nm)	<=2.27 % (0.05Tv)	0.00 %	PASS
Tsuv (280-400 nm)		0.00 %	
Tsb (400-500 nm)		0.19 %	
LED Signal Lights			
Q.Red	>=0.80	1.93	PASS
Q.Yellow	>=0.60	1.77	PASS
Q.Green	>=0.60	0.21	FAILED
Q.Blue	>=0.70	0.07	FAILED

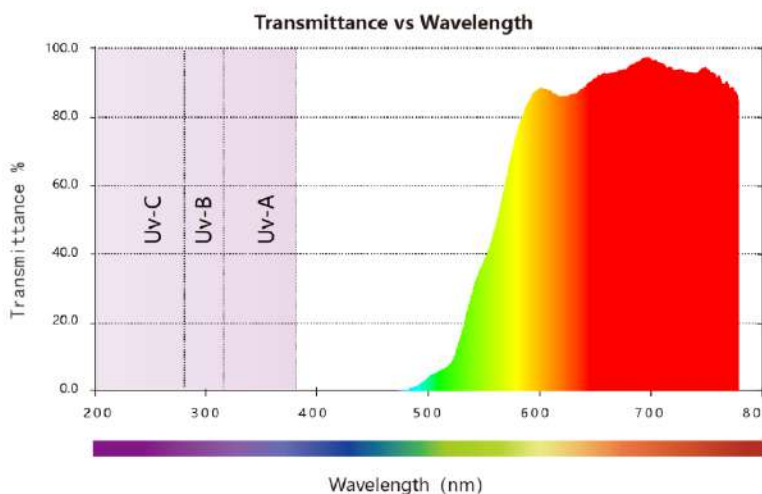
Color Limit Regions of Acceptance



Measurement Results:

ISO 12312-1:2022	ANSI Z80.3-2018	AS/NZS 1067.1:2016+A1-2021	Illuminant D65
Result FAIL	Result FAIL	Result FAIL	x 0.55 L * 71.36 y 0.44 a * 40.08 z 0.01 b * 100.00

Transmittance vs Wavelength



% TRANSMISSION VALUES (CENTER)

280	0.00	290	0.00	300	0.00
310	0.00	320	0.00	330	0.00
340	0.00	350	0.00	360	0.00
370	0.00	380	0.00	390	0.00
400	0.00	410	0.00	420	0.00
430	0.00	440	0.00	450	0.00
460	0.00	470	0.00	480	0.42
490	1.68	500	3.96	510	5.92
520	7.98	530	16.66	540	28.99
550	37.67	560	47.03	570	61.52
580	75.44	590	84.38	600	88.54
610	88.02	620	86.30	630	86.84
640	88.85	650	91.60	660	92.87
670	93.55	680	94.73	690	96.52
700	97.45	710	96.08	720	94.49
730	94.00	740	93.23	750	94.66
760	91.83	770	90.32	780	85.25