(Eastsun)Wenzhou Lirui Glasses Co.,Ltd

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Lens Certification Report

Customer :

Remark :

Lens Name : POLAR ZONE 760B-1M

Lens Type : Biohacking PC lens

Standard:ISO 12312-1:2013(A1:2015)

Item	Requirement	Value	Result
Filter Category		1	
Luminous Transmittance Tv	43% - 80%	45.25 %	PASS
Incandescent Lights			
Q,Red	>=0.80	1.93	PASS
Q,Yellow	>=0.60	1.47	PASS
Q,Green	>=0.60	0.73	PASS
Q,Blue	>=0.60	0.31	FAILED
Tmin (475-650 nm)	>=9.05 %(0.2Tv)	0.30 %	PASS
Tsuva (315-380 nm)	<=45.25 %(Tv)	0.00 %	PASS
Tsuvb (280-315 nm)	<=2.26 %(0.05Tv)	0.00 %	PASS
Tsuv (280-380 nm)		0.00 %	
Tsb (380-500 nm)		0.20 %	
Road Use And Driving			FAILED
Driving In Twilight or Night	Tv>=75 %	45.25 %	NOT
LED Signal Lights			
Q,Red	>=0.80	1.94	PASS
Q,Yellow	>=0.60	1.77	PASS
Q,Green	>=0.60	0.21	FAILED
Q,Blue	>=0.60	0.07	FAILED

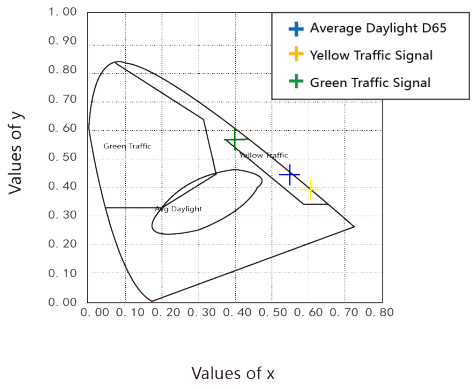
Standard: AS/NZS 1067.1:2016+A1-2021

Item	Requirement	Value	Result
Filter Category		1	
Luminous Transmittance	43% - 80%	45.25 %	PASS
Incandescent Lights			
Q,Red	>=0.80	1.93	PASS
Q,Yellow	>=0.60	1.47	PASS
Q,Green	>=0.60	0.73	PASS
Q,Blue	>=0.70	0.31	FAILED
Tmin (475-650 nm)	>=9.05 %(0.2Tv)	0.30 %	PASS
Tsuva (315-400 nm)	<=45.25 %(Tv)	0.00 %	PASS
Tsuvb (280-315 nm)	<=2.26 %(0.05Tv)	0.00 %	PASS
Tsuv (280-400 nm)		0.00 %	
Tsb (400-500 nm)		0.20 %	
LED Signal Lights			
Q,Red	>=0.80	1.94	PASS
Q,Yellow	>=0.60	1.77	PASS
Q,Green	>=0.60	0.21	FAILED
Q,Blue	>=0.70	0.07	FAILED

Standard: ANSI Z80.3:2018

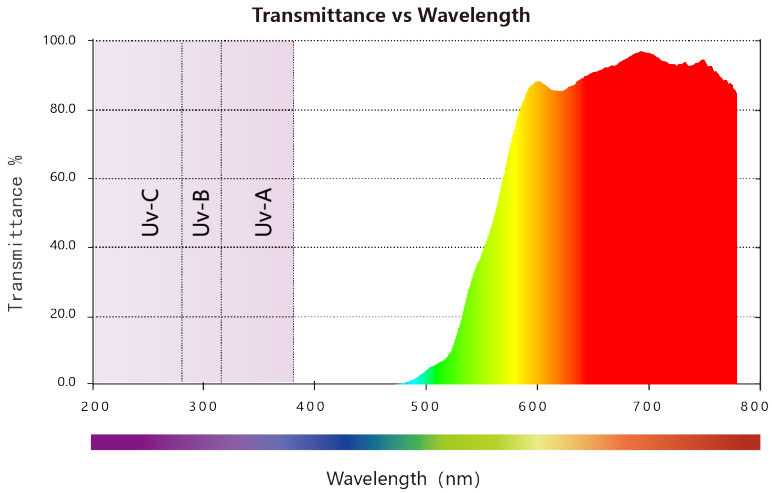
Item	Requirement	Value	Result
Lens Primary Function		Cosmetic Lens	
Luminous Transmittance Tv	> 40 %	45.90 %	PASS
Colour Distortion			
Yellow (X,Y)		(0.6063,0.3929)	PASS
Green (X,Y)		(0.4000,0.5658)	FAILED
D65 (X,Y)		(0.5492,0.4446)	FAILED
Traffic Signals Transmittance			
Tsig, Red Signal	>=8.00 %	88.86 %	PASS
Tsig, Yellow Signal	>=6.00 %	71.29 %	PASS
Tsig, Green Signal	>=6.00 %	28.92 %	PASS
Tmin (475-650 nm)	>=9.18 %(0.2Tv)	0.30 %	PASS
Tmax UVB (280-315 nm)	<=5.74 %(0.125Tv)	0.00 %	PASS
Tmax UVA (315-380 nm)	<=45.90 %(Tv)	0.00 %	PASS
Tsb (380-500 nm)		0.20 %	

Color Limit Regions of Acceptance



Measurement Results:

ISO 12312-1	ANSI Z80.3-2018	AS/NZS 1067.1:2016+A1-2021	Illuminant D65			
Result FAIL	Result FAIL	Result FAIL	x 0.55	L *	71.25	
			y 0.44	a *	39.84	
			z 0.01	b *	100.00	



% 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**	0.04	**480**	0.51
490	1.77	**500**	4.06	**510**	6.06
520	8.40	**530**	16.74	**540**	28.94
550	37.74	**560**	47.08	**570**	60.59
580	74.42	**590**	84.39	**600**	88.41
610	86.92	**620**	85.71	**630**	87.02
640	89.30	**650**	91.01	**660**	92.27
670	93.09	**680**	95.07	**690**	96.71
700	96.86	**710**	95.38	**720**	93.62
730	93.48	**740**	93.17	**750**	94.83
760	91.40	**770**	88.92	**780**	85.24