Lens Certification Report

Customer	:	GLASSA s.r.o., Czech Republic, CZ07267193	Remark	:	A+++
Lens Name	:	blue light blocking lens			
Lens Type	:	plastic lens			

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	Cosmetic Lens		
Luminous Transmittance Tv	96.04 %	> 40 %	PASS
Color Limit, Yellow(x,y)	(0.5776 , 0.4212)		PASS
Color Limit, Green(x,y)	(0.2177 , 0.4311)		PASS
Color Limit, D65(x,y)	(0.3352 , 0.3600)		PASS
Tsig, Red Signal	99.917 %	>=8.00 %	PASS
Tsig, Yellow Signal	98.983 %	>=6.00 %	PASS
Tsig, Green Signal	94.276 %	>=6.00 %	PASS
Tmin (475- 650nm)	79.60 %	> =19.21 % (0.2Tv)	PASS
Tmax UVB (280- 315nm)	0.01 %	< =12.00 % (0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.00 %	< =96.04 % (Tv)	PASS
Tsb (380- 500nm)	69.64 %		

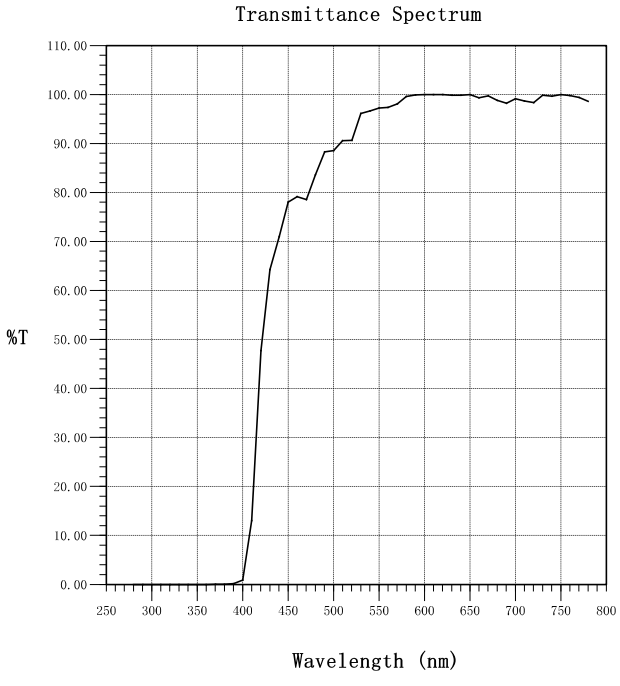
Standard: EN ISO 12312-1:2013(A1:2015)

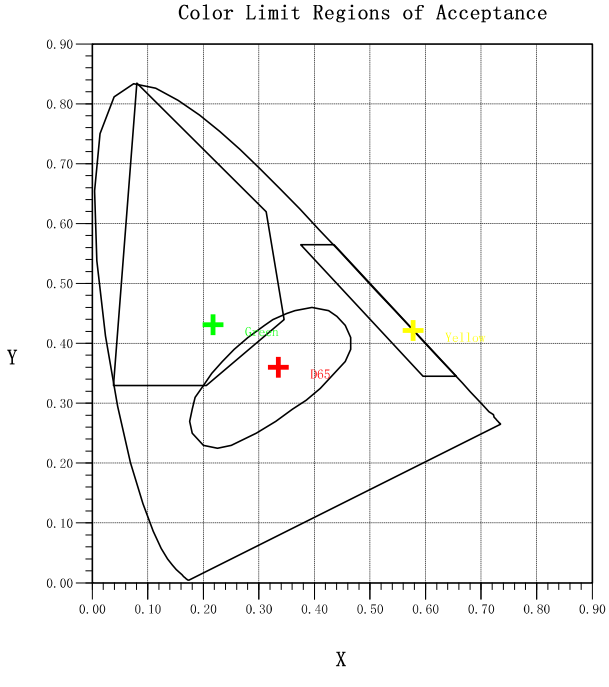
Item	Value	Requirement	Result
Filter Category	0		
Luminous Transmittance Tv	96.04 %	> 80 %	PASS
Incandescent Lights			
Q, Red	1.04	>=0.80	PASS
Q, Yellow	1.03	>=0.60	PASS
Q, Green	0.99	>=0.60	PASS
Q, Blue	0.93	>=0.60	PASS
LED Signal Lights			
Q, Red	1.04	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.95	>=0.60	PASS
Q, Blue	0.86	>=0.60	PASS
Tmin (475- 650nm)	79.60 %	> =19.21 % (0.2Tv)	PASS
Tsuva (315- 380nm)	0.01 %	< =96.04 % (Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	< =4.80 % (0.05Tv)	PASS
Tsuv (280- 380nm)	0.00 %		
Tsb (380- 500nm)	69.64 %		
Road Use And Driving			PASS
Driving In Twilight or Night	96.04	Tv >= 75 %	PASS

Standard:AS/NZS 1067.1:2016

Item	Value	Requirement	Result
Lens Category	0		
Luminous Transmittance Tv	96.04 %	> 80 %	PASS
Incandescent Lights			
Q, Red	1.04	>=0.80	PASS
Q, Yellow	1.03	>=0.60	PASS
Q, Green	0.99	>=0.60	PASS
Q, Blue	0.93	>=0.70	PASS
LED Signal Lights			
Q, Red	1.04	>=0.80	PASS
Q, Yellow	1.04	>=0.60	PASS
Q, Green	0.95	>=0.60	PASS
Q, Blue	0.86	>=0.70	PASS
Tmin (475-650nm)	79.60 %	> =19.21 % (0.2Tv)	PASS
Tsuva (315- 400nm)	0.07 %	< =96.04 % (Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	< =4.80 % (0.05Tv)	PASS
Tsuv (280- 380nm)	0.00 %		
Tsb (380- 500nm)	69.64 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=98.031 a*=-2.789 b*=17.064





Spectrum Data:

nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T
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	0.07	380	0.03	390	0.22	400	0.90
410	13.07	420	47.75	430	64.29	440	70.99	450	78.08	460	79.16	470	78.59	480	83.61	490	88.28	500	88.55	510	90.59	520	90.69	530	96.12
540	96.67	550	97.25	560	97.41	570	98.10	580	99.60	590	99.91	600	100.00	610	100.00	620	99.99	630	99.90	640	99.91	650	100.00	660	99.38
670	99.72	680	98.85	690	98.22	700	99.19	710	98.71	720	98.39	730	99.87	740	99.71	750	99.99	760	99.80	770	99.41	780	98.64		

(1). ANSI Z80.3:2018	PASS	Lens Primary Function	Cosmetic Lens
(2). EN ISO 12312-1:2013(A1:2015)	PASS	Filter Category	0
(3). AS/NZS 1067.1:2016	PASS	Lens Category	0
(4). UV380	PASS		
(5). UV400	PASS		

Measurements performed by the Micro-Light Optics Co.,Ltd MICRO-LIGHT Date of Issue: 2020-08-03