Date: 2024-12-26

Inspected By:

Reviewed By:

Approved By:

Applicant: Guangzhou excellence optical technology co., LTD

Device Model:

Sample Description: 2024-8008 orange color anti blue

European Standard [EN/ISO 12312-1-2015]

Item	Value	Requment	Results
Transmittance(Tv)	49.93%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<2.50%(0.05Tv)	PASS
Tsuva (315nm~380nm)	0.00%	<49.93%Tv	PASS
Tmin (475nm~650nm)	0.09%	>=9.99%(0.2Tv)	REF.
Claimed Value			
Tsuvb (280nm~315nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuva (315nm~380nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.00%	<=(2.00+0.5)%	PASS
Tsb (380nm~500nm)	0.21%	<=(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.94	≥0.8	PASS
Yellow[Q] (INCT)	1.52	≥0.6	PASS
Green[Q] (INCT)	0.68	≥0.6	PASS
Blue[Q] (INCT)	0.22	≥0.6	REF.

AS/NZS Standard [AS/NZS 1067-2016]

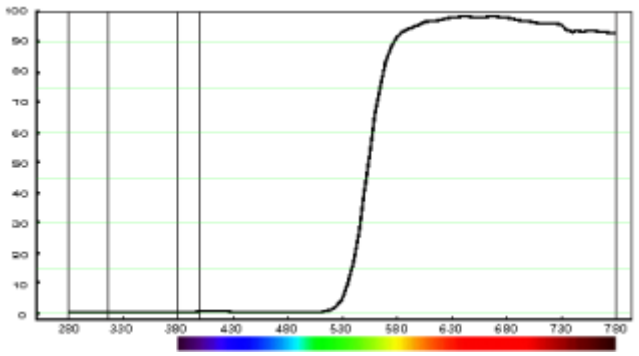
Item	Value	Requment	Results
Transmittance(Tv)	49.93%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<2.50%(0.05Tv)	PASS
Tsuva (315nm~380nm)	0.00%	<49.93%Tv	PASS
Tmin (475nm~650nm)	0.09%	>=9.99%(0.2Tv)	REF.
Claimed Value			
Tsuvb (280nm~315nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuva (315nm~380nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.01%	<=(2.00+0.5)%	PASS
Tsb (380nm~500nm)	0.21%	<=(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.94	≥0.8	PASS
Yellow[Q] (INCT)	1.52	≥0.6	PASS
Green[Q] (INCT)	0.68	≥0.6	PASS
Blue[Q] (INCT)	0.22	≥0.7	REF.

American National Standard [ANSI Z80.3-2015]

High and prolonged exposure NO

lens: 1

Item	Value	Requment	Results
Transmittance(Tc)	51.02%		
Filter Category	(Cosmetic lens or shield, light)		
Tsig Vaules			
Red	97.92%	≥8%	PASS
Yellow	82.71%	≥6%	PASS
Green	28.31%	≥6%	PASS
Mean Transmitance			
Tsb	0.21%		
UVB (280nm~315nm)	0.00%	<=6.38%(0.125Tv)	PASS
UVA (315nm~380nm)	0.00%	<=51.02%(Tv)	PASS
Tmin (475nm~650nm)	0.09%	>=10.20%(0.2Tv)	REF.
Color CIE			
Day light (D65)	X:0.561 Y:0.436		REF.
YELLOW	X:0.601 Y:0.398		PASS
GREEN	X:0.449 Y:0.544		REF.



CIE 1976 L*,a*,b* colc **L*= 76.02** a*= 42.35 **b*= 125.73**

Δp%= 100.00% **P%= 100.00%** **Photochromic= 0.00** **UV400= 0.00**

Spectrum Data:

780	92.95	**775**	93.03	**770**	93.39	**765**	93.32	**760**	93.63	**755**	93.54	**750**	93.35	**745**	93.72
740	93.12	**735**	93.98	**730**	95.68	**725**	96.08	**720**	95.96	**715**	96.12	**710**	96.28	**705**	96.42
700	96.73	**695**	97.10	**690**	97.39	**685**	97.87	**680**	98.05	**675**	98.25	**670**	98.31	**665**	98.34
660	98.23	**655**	98.23	**650**	98.26	**645**	98.38	**640**	98.35	**635**	98.08	**630**	97.92	**625**	97.62
620	97.34	**615**	97.01	**610**	96.82	**605**	96.39	**600**	95.84	**595**	95.05	**590**	94.13	**585**	93.14
580	91.27	**575**	88.38	**570**	83.41	**565**	75.87	**560**	65.63	**555**	53.04	**550**	39.14	**545**	26.49
540	16.28	**535**	8.87	**530**	4.38	**525**	1.96	**520**	0.81	**515**	0.32	**510**	0.16	**505**	0.11
500	0.09	**495**	0.10	**490**	0.11	**485**	0.13	**480**	0.13	**475**	0.14	**470**	0.12	**465**	0.12
460	0.15	**455**	0.16	**450**	0.20	**445**	0.21	**440**	0.23	**435**	0.25	**430**	0.27	**425**	0.31
420	0.35	**415**	0.37	**410**	0.49	**405**	0.55	**400**	0.61	**395**	0.03	**390**	0.04	**385**	0.04
380	0.05	**375**	0.00	**370**	0.00	**365**	0.00	**360**	0.00	**355**	0.00	**350**	0.00	**345**	0.00
340	0.00	**335**	0.00	**330**	0.00	**325**	0.00	**320**	0.00	**315**	0.00	**310**	0.00	**305**	0.00
300	0.00	**295**	0.00	**290**	0.00	**285**	0.00	**280**	0.00						

CIE 1931 XYZ

