Date: 2024-12-26

Inspected By:

Reviewed By:

Approved By:

Applicant: Guangzhou excellence optical technology co., LTD

Device Model:

Sample Description: 2024-8007 yellow anti blue

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

Item	Value	Requment	Results
Transmittance(Tv)	76.17%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<3.81%(0.05Tv)	PASS
Tsuva (315nm~380nm)	0.00%	<76.17%Tv	PASS
Tmin (475nm~650nm)	8.01%	>=15.23%(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)	3.38%	<=(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.28	≥0.8	PASS
Yellow[Q] (INCT)	1.19	≥0.6	PASS
Green[Q] (INCT)	0.94	≥0.6	PASS
Blue[Q] (INCT)	0.52	≥0.6	REF.

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

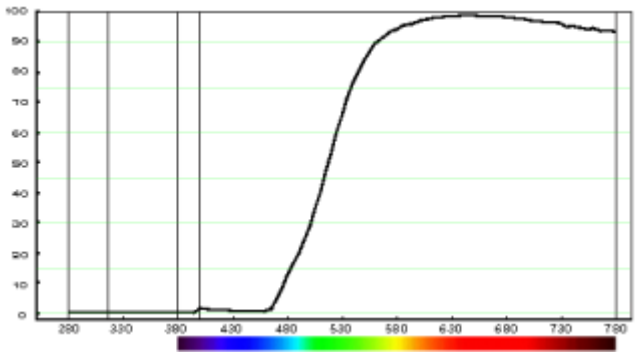
Item	Value	Requment	Results
Transmittance(Tv)	76.17%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<3.81%(0.05Tv)	PASS
Tsuva (315nm~380nm)	0.00%	<76.17%Tv	PASS
Tmin (475nm~650nm)	8.01%	>=15.23%(0.2Tv)	REF.
Claimed Value			
Tsuvb (280nm~315nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuva (315nm~380nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.02%	<=(2.00+0.5)%	PASS
Tsb (380nm~500nm)	3.38%	<=(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.28	≥0.8	PASS
Yellow[Q] (INCT)	1.19	≥0.6	PASS
Green[Q] (INCT)	0.94	≥0.6	PASS
Blue[Q] (INCT)	0.52	≥0.7	REF.

American National Standard [ANSI Z80.3-2015]

High and prolonged exposure NO

Item	Value	Requment	Results
Transmittance(Tc)	76.40%		
Filter Category	(Cosmetic lens or shield, light)		
Tsig Vaules			
Red	98.43%	≥8%	PASS
Yellow	93.50%	≥6%	PASS
Green	66.23%	≥6%	PASS
Mean Transmitance			
Tsb	3.38%		
UVB (280nm~315nm)	0.00%	<=9.55%(0.125Tv)	PASS
UVA (315nm~380nm)	0.00%	<=76.40%(Tv)	PASS
Tmin (475nm~650nm)	8.01%	>=15.28%(0.2Tv)	REF.
Color CIE			
Day light (D65)	X:0.470 Y:0.495		REF.
YELLOW	X:0.583 Y:0.416		PASS
GREEN	X:0.308 Y:0.619		PASS

lens: 1



CIE 1976 L*,a*,b* colc **L*= 89.94** **a*= -0.17** **b*= 108.84**

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

Spectrum Data:

780	93.18	**775**	93.68	**770**	93.87	**765**	93.83	**760**	94.31	**755**	94.12	**750**	94.36	**745**	94.77
740	95.13	**735**	94.90	**730**	96.01	**725**	96.32	**720**	96.38	**715**	96.56	**710**	96.80	**705**	97.00
700	97.30	**695**	97.68	**690**	97.75	**685**	98.01	**680**	98.13	**675**	98.34	**670**	98.49	**665**	98.56
660	98.49	**655**	98.65	**650**	98.80	**645**	98.76	**640**	98.74	**635**	98.56	**630**	98.44	**625**	98.38
620	98.11	**615**	97.95	**610**	97.54	**605**	97.26	**600**	97.02	**595**	96.27	**590**	95.84	**585**	95.20
580	94.29	**575**	93.59	**570**	92.29	**565**	90.78	**560**	89.39	**555**	86.98	**550**	83.77	**545**	80.58
540	76.35	**535**	71.35	**530**	65.75	**525**	59.55	**520**	53.21	**515**	46.69	**510**	40.12	**505**	33.90
500	28.40	**495**	23.88	**490**	19.87	**485**	16.04	**480**	12.11	**475**	8.01	**470**	4.04	**465**	1.17
460	0.46	**455**	0.44	**450**	0.48	**445**	0.52	**440**	0.56	**435**	0.61	**430**	0.67	**425**	0.73
420	0.80	**415**	0.90	**410**	1.09	**405**	1.22	**400**	1.30	**395**	0.07	**390**	0.08	**385**	0.01
380	0.04	**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

