Wenzhou LM Optical Co.,ltd

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Certification Report

Customer Ref Code	: L021-HHMX	Sample Remark	:
Lens Type	: 240802		
Lens Ref Code	:		

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	General Purpose		
Luminous Transmittance Tv	18.87 %	8% ~ 40%	PASS
Color Limit, Yellow(x,y)	(0.6706 , 0.3292)		FAILED
Color Limit, Green(x,y)	(0.5280 , 0.3893)		FAILED
Color Limit, D65(x,y)	(0.6453 , 0.3368)		FAILED
Tsig, Red Signal	94.46 %	>=8.00%	PASS
Tsig, Yellow Signal	38.94 %	>=6.00%	PASS
Tsig, Green Signal	4.60 %	>=6.00%	FAILED
Tmin (475- 650nm)	0.00 %	>=3.77%(0.2Tv)	FAILED
Tmax UVB (280- 315nm)	0.00 %	<=2.36%(0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.07 %	<=18.87%(Tv)	PASS
Tsb (380- 500nm)	0.78 %		

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

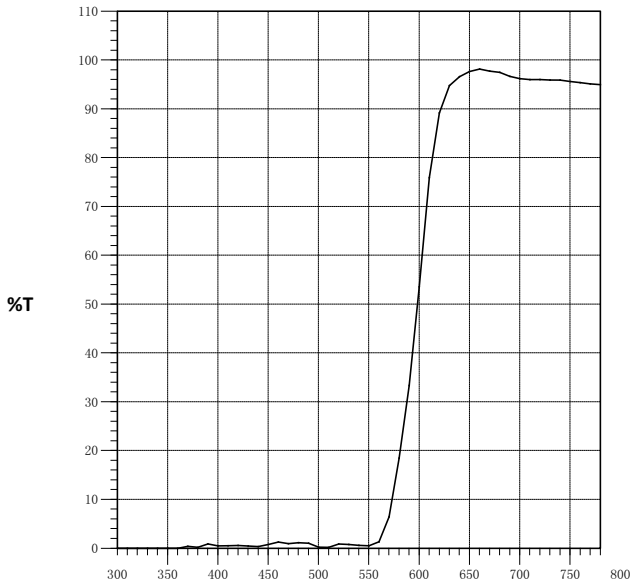
Item	Value	Requirement	Result
Filter Category	2		
Luminous Transmittance Tv	18.87 %	18% ~ 43%	PASS
Incandescent Lights			
Q, Red	4.22	>=0.80	PASS
Q, Yellow	1.92	>=0.60	PASS
Q, Green	0.24	>=0.60	FAILED
Q, Blue	0.32	>=0.60	FAILED
Tmin (475- 650nm)	0.00 %	>=3.77%(0.2Tv)	FAILED
Tsuva (315- 380nm)	0.03 %	<=9.44%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=1.00%	PASS
Tsuv (280- 400nm)	0.02 %		
Tsb (380- 500nm)	0.78 %		
Road Use And Driving			FAILED
Driving In Twilight or Night	18.87	Tv >= 75%	NOT SUITABLE

Standard:AS/NZS 1067.1:2016

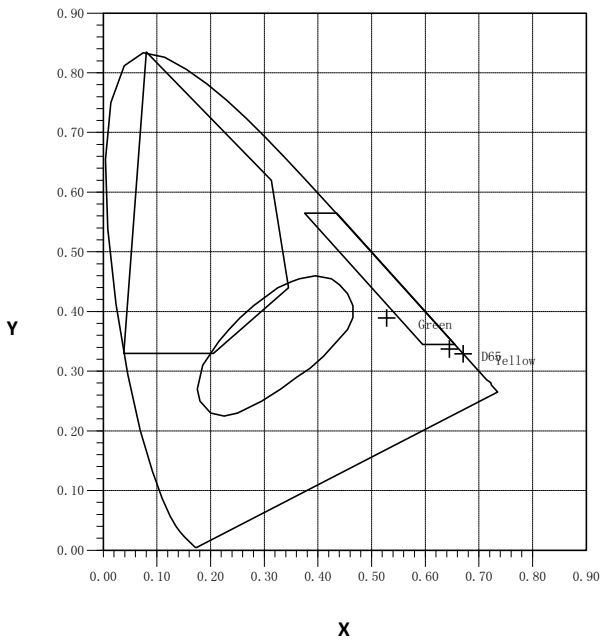
Item	Value	Requirement	Result
Lens Category	2		
Luminous Transmittance Tv	18.87 %	18% ~ 43%	PASS
Incandescent Lights			
Q, Red	4.22	>=0.80	PASS
Q, Yellow	1.92	>=0.60	PASS
Q, Green	0.24	>=0.60	FAILED
Q, Blue	0.32	>=0.70	FAILED
Tmin (475-650nm)	0.00 %	>=3.77%(0.2Tv)	FAILED
Tsuva (315- 400nm)	0.09 %	<=18.87%(Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=0.94%(0.05Tv)	PASS
Tsuv (280- 380nm)	0.02 %		
Tsb (380- 500nm)	0.78 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=48.883 a*=71.668 b*=72.124

Transmittance Spectrum



Color Limit Regions of Acceptance



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	0.41	380	0.21	390	0.90	400	0.50
410	0.53	420	0.58	430	0.47	440	0.36	450	0.79	460	1.29	470	0.96	480	1.15	490	1.05	500	0.24	510	0.20	520	0.88	530	0.79
540	0.61	550	0.52	560	1.34	570	6.44	580	18.47	590	33.34	600	53.54	610	75.91	620	89.17	630	94.76	640	96.59	650	97.65	660	98.15
670	97.73	680	97.48	690	96.66	700	96.19	710	96.00	720	96.00	730	95.91	740	95.89	750	95.61	760	95.37	770	95.11	780	94.96		

(1). ANSI Z80.3:2018	FAILED	Lens Primary Function	General Purpose
(2). EN ISO 12312-1:2013(A1:2015)	FAILED	Filter Category	2
(3). AS/NZS 1067.1:2016	FAILED	Lens Category	2

2024.08.02