Customer Ref Code	: Red Lens	Sample Remark	:
Lens Type	:		
Lens Ref Code	:		

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	General Purpose		
Luminous Transmittance Tv	17.65 %	8% ~ 40%	PASS
Color Limit, Yellow(x,y)	(0.6633 , 0.3364)		FAILED
Color Limit, Green(x,y)	(0.5486 , 0.4007)		FAILED
Color Limit, D65(x,y)	(0.6396 , 0.3434)		FAILED
Tsig, Red Signal	77.470 %	>=8.00%	PASS
Tsig, Yellow Signal	35.693 %	>=6.00%	PASS
Tsig, Green Signal	4.516 %	>=6.00%	FAILED
Tmin (475- 650nm)	0.00 %	>=3.53%(0.2Tv)	FAILED
Tmax UVB (280- 315nm)	0.00 %	<=2.21%(0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.00 %	<=17.65%(Tv)	PASS
Tsb (380- 500nm)	0.64 %		

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

Item	Value	Requirement	Result
Filter Category	3		
Luminous Transmittance Tv	17.65 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	3.90	>=0.80	PASS
Q, Yellow	1.88	>=0.60	PASS
Q, Green	0.27	>=0.60	FAILED
Q, Blue	0.27	>=0.60	FAILED
LED Signal Lights			
Q, Red	4.26	>=0.80	PASS
Q, Yellow	1.85	>=0.60	PASS
Q, Green	0.03	>=0.60	FAILED
Q, Blue	0.05	>=0.60	FAILED
Tmin (475- 650nm)	0.00 %	>=3.53%(0.2Tv)	FAILED
Tsuva (315- 380nm)	0.00 %	<=8.82%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=1.00%	PASS
Tsuv (280- 380nm)	0.00 %		
Tsb (380- 500nm)	0.64 %		
Road Use And Driving			FAILED
Driving In Twilight or Night	17.65	Tv >= 75%	

Standard:AS/NZS 1067.1:2016

Item	Value	Requirement	Result
Lens Category	3		
Luminous Transmittance Tv	17.65 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	3.90	>=0.80	PASS
Q, Yellow	1.88	>=0.60	PASS
Q, Green	0.27	>=0.60	FAILED
Q, Blue	0.27	>=0.70	FAILED
LED Signal Lights			
Q, Red	4.26	>=0.80	PASS
Q, Yellow	1.85	>=0.60	PASS
Q, Green	0.03	>=0.60	FAILED
Q, Blue	0.05	>=0.70	FAILED
Tmin (475-650nm)	0.00 %	>=3.53%(0.2Tv)	FAILED
Tsuva (315- 400nm)	0.00 %	<=8.82%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=0.88%(0.05Tv)	PASS
Tsuv (280- 380nm)	0.00 %		
Tsb (380- 500nm)	0.64 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=47.395 a*=67.086 b*=73.060

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	0.00	380	0.00	390	0.00	400	0.20
410	1.15	420	1.75	430	0.89	440	0.68	450	0.39	460	0.23	470	0.48	480	0.05	490	0.00	500	0.35	510	0.28	520	0.20	530	0.47
540	0.50	550	1.12	560	2.85	570	7.81	580	18.84	590	36.07	600	55.58	610	68.66	620	74.99	630	77.71	640	78.17	650	78.41	660	78.61
670	78.84	680	79.23	690	79.45	700	80.07	710	79.33	720	79.88	730	81.03	740	80.47	750	80.32	760	81.26	770	80.73	780	80.73		

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