UVtech SLEEP-1 dark red

UVtech s.r.o.
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Sunglasses Certification Report

Customer Ref Code	:	Sample Remark	:
Lens Type	: dark red		
Lens Ref Code	:		

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	General Purpose		
Luminous Transmittance Tv	10.20 %	8% ~ 40%	PASS
Color Limit, Yellow(x,y)	(0.6935 , 0.3064)		FAILED
Color Limit, Green(x,y)	(0.5539 , 0.3305)		FAILED
Color Limit, D65(x,y)	(0.6681 , 0.3046)		FAILED
Tsig, Red Signal	77.069 %	>=8.00%	PASS
Tsig, Yellow Signal	22.772 %	>=6.00%	PASS
Tsig, Green Signal	1.505 %	>=6.00%	FAILED
Tmin (475- 650nm)	0.00 %	>=2.04%(0.2Tv)	FAILED
Tmax UVB (280- 315nm)	0.07 %	<=1.27%(0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.00 %	<=10.20%(Tv)	PASS
Tsb (380- 500nm)	1.76 %		

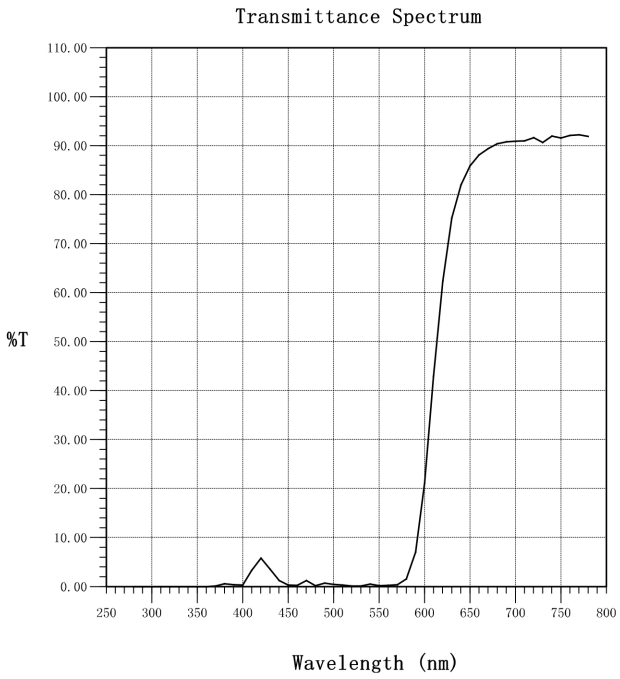
Standard: EN ISO 12312-1:2013(A1:2015)

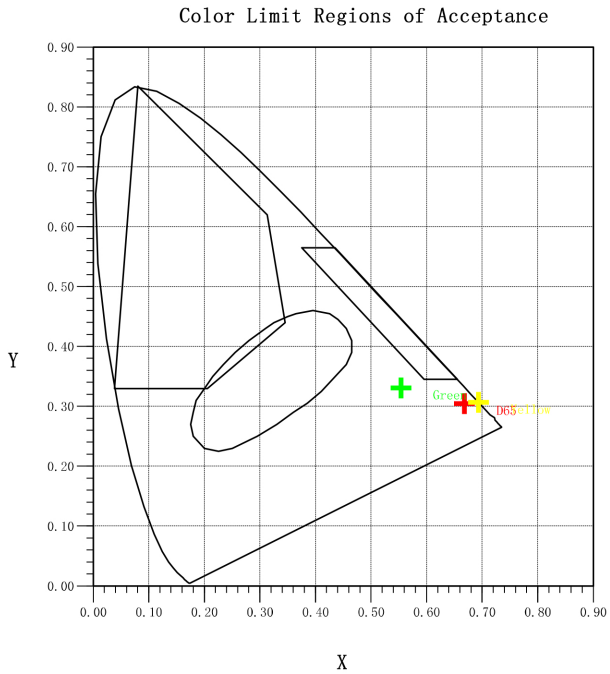
Item	Value	Requirement	Result
Filter Category	3		
Luminous Transmittance Tv	10.20 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	5.48	>=0.80	PASS
Q, Yellow	2.10	>=0.60	PASS
Q, Green	0.12	>=0.60	FAILED
Q, Blue	0.47	>=0.60	FAILED
LED Signal Lights			
Q, Red	6.92	>=0.80	PASS
Q, Yellow	0.74	>=0.60	PASS
Q, Green	0.04	>=0.60	FAILED
Q, Blue	0.09	>=0.60	FAILED
Tmin (475- 650nm)	0.00 %	>=2.04%(0.2Tv)	FAILED
Tsuva (315- 380nm)	0.05 %	<=5.10%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=1.00%	PASS
Tsuv (280- 380nm)	0.03 %		
Tsb (380- 500nm)	1.76 %		
Road Use And Driving			FAILED
Driving In Twilight or Night	10.20	Tv >= 75%	NA

Standard:AS/NZS 1067.1:2016

Item	Value	Requirement	Result
Lens Category	3		
Luminous Transmittance Tv	10.20 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	5.48	>=0.80	PASS
Q, Yellow	2.10	>=0.60	PASS
Q, Green	0.12	>=0.60	FAILED
Q, Blue	0.47	>=0.70	FAILED
LED Signal Lights			
Q, Red	6.92	>=0.80	PASS
Q, Yellow	0.74	>=0.60	PASS
Q, Green	0.04	>=0.60	FAILED
Q, Blue	0.09	>=0.70	FAILED
Tmin (475-650nm)	0.00 %	>=2.04%(0.2Tv)	FAILED
Tsuva (315- 400nm)	0.08 %	<=5.10%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=0.51%(0.05Tv)	PASS
Tsuv (280- 380nm)	0.03 %		
Tsb (380- 500nm)	1.76 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=36.858 a*=69.372 b*=42.635





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	0.10	380	0.61	390	0.39	400	0.29
410	3.33	420	5.81	430	3.61	440	1.23	450	0.35	460	0.28	470	1.22	480	0.18	490	0.73	500	0.43	510	0.34	520	0.11	530	0.14
540	0.52	550	0.23	560	0.26	570	0.38	580	1.54	590	7.03	600	21.11	610	42.95	620	62.39	630	75.26	640	82.05	650	85.90	660	88.10
670	89.45	680	90.43	690	90.77	700	90.91	710	91.01	720	91.65	730	90.66	740	91.98	750	91.56	760	92.09	770	92.22	780	91.88		

(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

Measurements performed by the Micro-Light Optics Co.,Ltd