



厦门冠宜光学科技有限公司
XIAMEN SUNHAVEN OPTICAL CO., LTD.

Date: 2020-08-25

Inspected By: 秦意树

Reviewed By:

Approved By: 李玲妹

Device Model: TP8S测试仪

Standard [BS EN ISO 12312-1:2013+A1:2015]

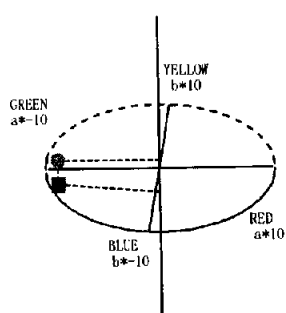
Applicant: SUN HAVEN OPTICAL CO., LTD.

Sample Description: T1584 (907078)

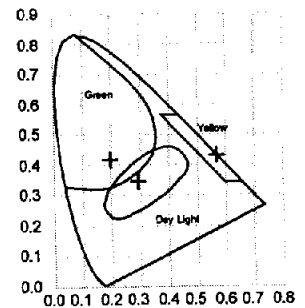
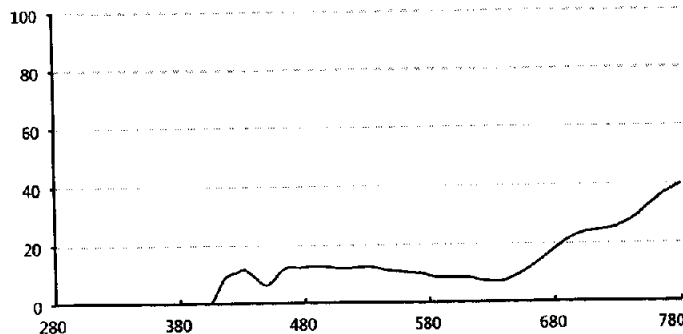
Item	Value	Requement	Results
Luminous Transmittance(Tv)	10.67%		
Filter Category	3		
Tsub (280nm~315nm)	0.00%	≤1%	PASS
Tsua (315nm~380nm)	0.00%	≤5.33% (0.5Tv)	PASS
Tmin (475nm~650nm)	7.07%	≥2.13% (0.2Tv)	PASS
Claimed Value			
Tsub (280nm~315nm)	0.00%	≤(2.00+0.5)%	PASS
Tsua (315nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsb (380nm~500nm)	10.06%	≤(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	0.83	≥0.8	PASS
Yellow[Q] (INCT)	0.92	≥0.6	PASS
Green[Q] (INCT)	1.07	≥0.6	PASS
Blue[Q] (INCT)	1.13	≥0.6	PASS

Spectrum Data: (nm \ %)

λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T
280	0.00	285	0.00	290	0.00	295	0.00	300	0.00	305	0.00	310	0.00	315	0.00
320	0.00	325	0.00	330	0.00	335	0.00	340	0.00	345	0.00	350	0.00	355	0.00
360	0.00	365	0.00	370	0.00	375	0.00	380	0.00	385	0.00	390	0.00	395	0.00
400	0.00	405	0.36	410	4.50	415	8.71	420	10.26	425	10.86	430	11.76	435	10.88
440	9.06	445	7.04	450	6.58	455	8.39	460	11.03	465	12.34	470	12.43	475	12.38
480	12.62	485	12.81	490	12.91	495	12.77	500	12.62	505	12.16	510	12.05	515	12.05
520	12.18	525	12.39	530	12.56	535	12.31	540	11.93	545	11.41	550	11.00	555	10.83
560	10.60	565	10.49	570	10.28	575	9.97	580	9.38	585	8.94	590	8.70	595	8.73
600	8.63	605	8.60	610	8.63	615	8.35	620	7.83	625	7.45	630	7.07	635	7.16
640	7.58	645	8.40	650	9.44	655	10.50	660	11.95	665	13.42	670	14.93	675	16.61
680	18.32	685	19.82	690	21.36	695	22.37	700	23.33	705	23.94	710	24.05	715	24.53
720	24.74	725	25.12	730	25.80	735	26.75	740	27.83	745	29.26	750	31.09	755	32.98
760	34.60	765	36.40	770	37.68	775	38.96	780	39.95						



L: 38.19 a: -9.02 b: 1.27



X: 0.292 Y: 0.346



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Approved By: 李玲妹

Device Model: TP8S测试仪

Standard [BS EN ISO 12312-1:2013+A1:2015]

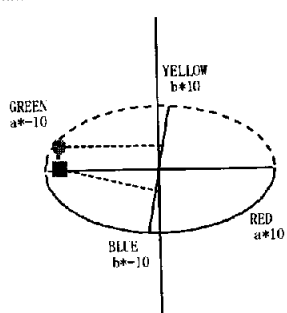
Applicant: SUN HAVEN OPTICAL CO., LTD.

Sample Description: T1584 (907080)

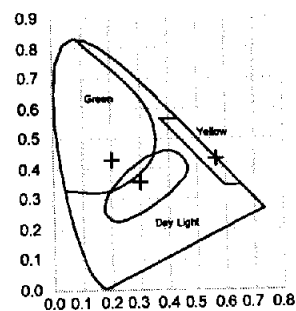
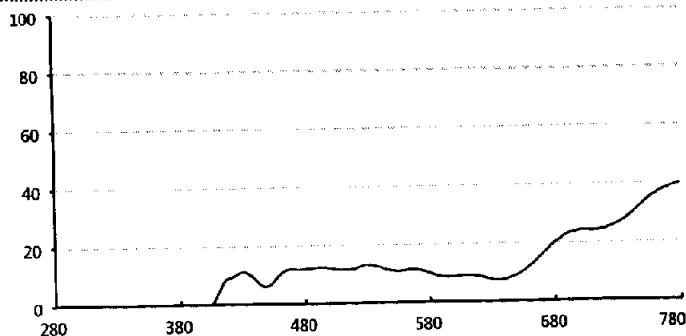
Item	Value	Requment	Results
Luminous Transmittance(Tv)	11.07%		
Filter Category	3		
Tsub (280nm~315nm)	0.00%	≤1%	PASS
Tsua (315nm~380nm)	0.00%	<5.54%(0.5Tv)	PASS
Tmin (475nm~650nm)	7.49%	≥2.21%(0.2Tv)	PASS
Claimed Value			
Tsub (280nm~315nm)	0.00%	≤(2.00+0.5)%	PASS
Tsua (315nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsb (380nm~500nm)	9.63%	≤(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	0.84	≥0.8	PASS
Yellow[Q] (INCT)	0.93	≥0.6	PASS
Green[Q] (INCT)	1.06	≥0.6	PASS
Blue[Q] (INCT)	1.08	≥0.6	PASS

Spectrum Data: (nm \ %)

λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T
280	0.00	285	0.00	290	0.00	295	0.00	300	0.00	305	0.00	310	0.00	315	0.00
320	0.00	325	0.00	330	0.00	335	0.00	340	0.00	345	0.00	350	0.00	355	0.00
360	0.00	365	0.00	370	0.00	375	0.00	380	0.00	385	0.00	390	0.00	395	0.00
400	0.00	405	0.22	410	4.14	415	8.23	420	9.54	425	10.45	430	11.37	435	10.56
440	8.49	445	6.59	450	6.43	455	8.04	460	10.46	465	11.89	470	11.99	475	11.92
480	12.11	485	12.24	490	12.57	495	12.50	500	12.34	505	11.80	510	11.64	515	11.75
520	12.04	525	12.93	530	13.38	535	13.02	540	12.52	545	11.68	550	11.22	555	11.05
560	11.26	565	11.55	570	11.49	575	11.03	580	10.25	585	9.44	590	8.94	595	8.74
600	8.84	605	9.09	610	9.21	615	9.12	620	8.74	625	8.22	630	7.67	635	7.49
640	7.70	645	8.41	650	9.32	655	10.57	660	12.16	665	13.93	670	16.08	675	18.18
680	20.01	685	21.56	690	22.95	695	23.56	700	24.07	705	24.12	710	23.96	715	24.20
720	24.65	725	25.36	730	26.39	735	27.61	740	29.29	745	31.16	750	33.08	755	35.10
760	36.45	765	37.85	770	38.63	775	39.43	780	39.83						



L: 38.89 a: -9.10 b: 3.77



X: 0.301 Y: 0.356



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Standard [BS EN ISO 12312-1:2013+A1:2015]

Applicant: SUN HAVEN OPTICAL CO., LTD.

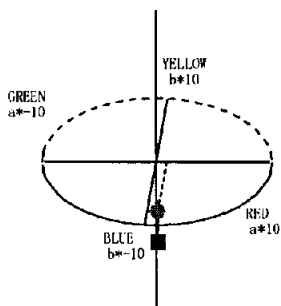
Device Model: TP8S测试仪

Sample Description: T1727 (907081)

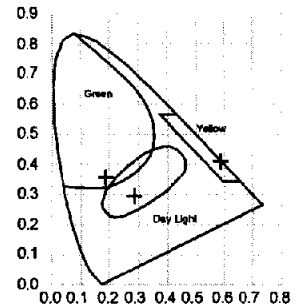
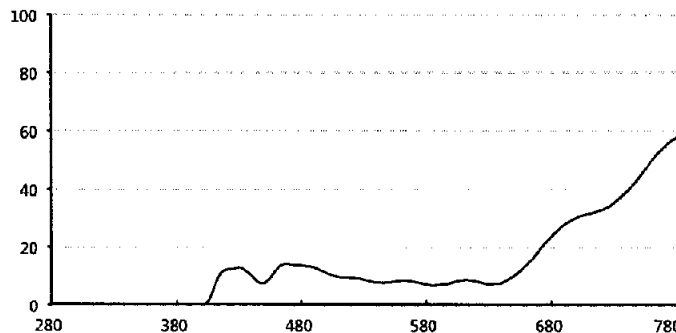
Item	Value	Requment	Results
Luminous Transmittance(Tv)	8.76%		
Filter Category	3		
Tsvb (280nm~315nm)	0.00%	≤1%	PASS
Tsuva (315nm~380nm)	0.00%	<4.38% (0.5Tv)	PASS
Tmin (475nm~650nm)	6.85%	≥1.75% (0.2Tv)	PASS
Claimed Value			
Tsvb (280nm~315nm)	0.00%	≤(2.00+0.5)%	PASS
Tsuva (315nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsb (380nm~500nm)	11.36%	≤(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.04	≥0.8	PASS
Yellow[Q] (INCT)	0.95	≥0.6	PASS
Green[Q] (INCT)	1.00	≥0.6	PASS
Blue[Q] (INCT)	1.27	≥0.6	PASS

Spectrum Data: (nm \ %)

λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T
280	0.00	285	0.00	290	0.00	295	0.00	300	0.00	305	0.00	310	0.00	315	0.00	320	0.00
320	0.00	325	0.00	330	0.00	335	0.00	340	0.00	345	0.00	350	0.00	355	0.00	360	0.00
360	0.00	365	0.00	370	0.00	375	0.00	380	0.00	385	0.00	390	0.00	395	0.00	400	0.00
400	0.00	405	1.28	410	6.38	415	10.89	420	12.35	425	12.53	430	13.05	435	12.01	440	10.22
440	10.22	445	8.09	450	7.59	455	9.55	460	12.43	465	14.16	470	14.22	475	13.97	480	13.77
480	13.77	485	13.51	490	13.11	495	12.17	500	11.28	505	10.39	510	9.91	515	9.65	520	9.53
520	9.53	525	9.36	530	8.91	535	8.37	540	7.94	545	7.78	550	7.91	555	8.23	560	8.58
560	8.58	565	8.56	570	8.23	575	7.77	580	7.24	585	6.85	590	6.96	595	7.34	600	7.82
600	7.82	605	8.41	610	8.78	615	8.70	620	8.30	625	7.75	630	7.37	635	7.42	640	7.70
640	7.70	645	8.75	650	10.16	655	11.84	660	14.00	665	16.17	670	18.71	675	21.38	680	23.63
680	23.63	685	25.91	690	27.86	695	29.21	700	30.31	705	31.15	710	31.70	715	32.39	720	33.08
720	33.08	725	34.09	730	35.56	735	37.43	740	39.48	745	41.82	750	44.78	755	47.43	760	50.29
760	50.29	765	52.77	770	54.94	775	56.78	780	58.01								



L: 34.48 a: 0.91 b: -7.81



X: 0.285 Y: 0.297



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Device Model: TP8S测试仪

Standard [BS EN ISO 12312-1:2013+A1:2015]

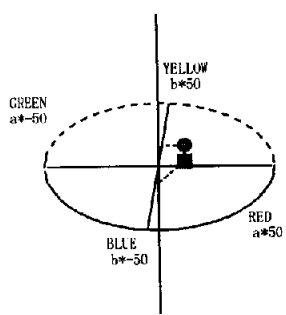
Applicant: SUN HAVEN OPTICAL CO., LTD.

Sample Description: T1727 (907082)

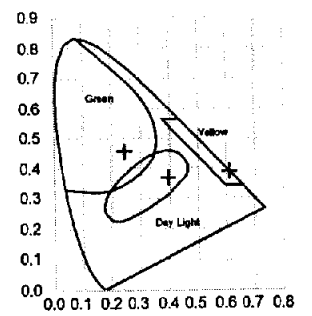
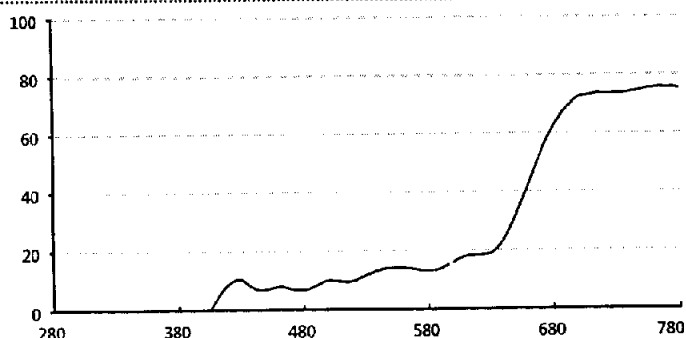
Item	Value	Requement	Results
Luminous Transmittance(Tv)	13.82%		
Filter Category	3		
Tsub (280nm~315nm)	0.00%	≤1%	PASS
Tsua (315nm~380nm)	0.00%	<6.91%(0.5Tv)	PASS
Tmin (475nm~650nm)	7.02%	≥2.76%(0.2Tv)	PASS
Claimed Value			
Tsub (280nm~315nm)	0.00%	≤(2.00+0.5)%	PASS
Tsua (315nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.00%	≤(2.00+0.5)%	PASS
Tsb (380nm~500nm)	7.91%	≤(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.60	≥0.8	PASS
Yellow[Q] (INCT)	1.20	≥0.6	PASS
Green[Q] (INCT)	0.91	≥0.6	PASS
Blue[Q] (INCT)	0.84	≥0.6	PASS

Spectrum Data: (nm \ %)

λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T	λ	T
280	0.00	285	0.00	290	0.00	295	0.00	300	0.00	305	0.00	310	0.00	315	0.00
320	0.00	325	0.00	330	0.00	335	0.00	340	0.00	345	0.00	350	0.00	355	0.00
360	0.00	365	0.00	370	0.00	375	0.00	380	0.00	385	0.00	390	0.00	395	0.00
400	0.00	405	0.51	410	3.60	415	6.86	420	9.16	425	10.37	430	10.49	435	8.95
440	7.76	445	7.00	450	7.18	455	7.76	460	8.17	465	7.99	470	7.40	475	7.02
480	7.14	485	7.60	490	8.57	495	9.46	500	10.15	505	9.94	510	9.78	515	9.61
520	9.93	525	10.71	530	11.78	535	12.61	540	13.49	545	14.01	550	14.19	555	14.23
560	14.21	565	13.95	570	13.76	575	13.40	580	13.29	585	13.33	590	13.87	595	14.91
600	16.05	605	17.26	610	18.01	615	18.28	620	18.34	625	18.65	630	18.92	635	20.54
640	22.97	645	26.70	650	31.50	655	36.54	660	41.85	665	47.49	670	52.65	675	57.69
680	61.74	685	65.14	690	68.17	695	70.32	700	72.20	705	72.99	710	73.30	715	73.68
720	73.57	725	73.63	730	73.71	735	73.72	740	74.11	745	74.36	750	74.85	755	75.36
760	75.38	765	75.81	770	75.49	775	75.67	780	75.18						



L: 41.83 a: 9.95 b: 16.48



X: 0.396 Y: 0.370