



Nattelyst

nattelyst.dk

Nattelyst Blue Light Glasses — 98%

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

Item	Value	Requirement	Results
Transmittance(Tv)	52.94%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<2.65%(0.05Tv)	PASS
Tsuva (315nm~380nm)	0.01%	<52.94%Tv	PASS
Tmin (475nm~650nm)	2.86%	>=10.59%(0.2Tv)	REF.
Claimed Value			
Tsuvb (280nm~315nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuva (315nm~380nm)	0.01%	<=(2.00+0.5)%	PASS
Tsuv (280nm~380nm)	0.01%	<=(2.00+0.5)%	PASS
Tsb (380nm~500nm)	1.98%		
Recognition of signal lights			
Red[Q] (INCT)	1.54	≥0.8	PASS
Yellow[Q] (INCT)	1.32	≥0.6	PASS
Green[Q] (INCT)	0.85	≥0.6	PASS
Blue[Q] (INCT)	0.39	≥0.6	REF.

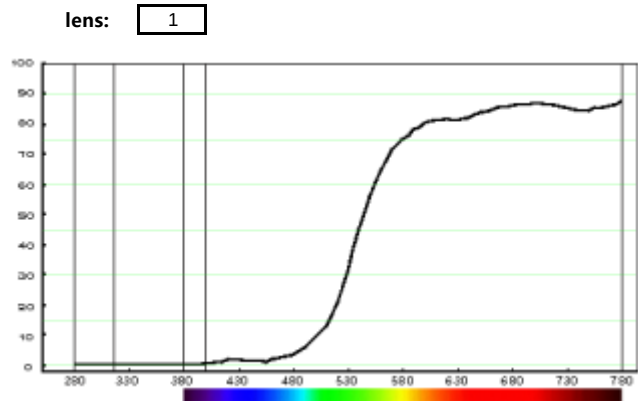
AS/NZS Standard [AS/NZS 1067-2016]

Item	Value	Requirement	Results
Transmittance(Tv)	52.94%		
Filter Category	1		
Tsuvb (280nm~315nm)	0.00%	<2.65%(0.05Tv)	PASS
Tsuva (315nm~400nm)	0.01%	<52.94%Tv	PASS
Tmin (475nm~650nm)	2.86%	>=10.59%(0.2Tv)	REF.
Claimed Value			
Tsuvb (280nm~315nm)	0.00%	<=(2.00+0.5)%	PASS
Tsuva (315nm~400nm)	0.01%	<=(2.00+0.5)%	PASS
Tsuv (280nm~400nm)	0.01%	<=(2.00+0.5)%	PASS
Tsb (380nm~500nm)	1.98%	<=(90.00+0.5)%	PASS
Recognition of signal lights			
Red[Q] (INCT)	1.54	≥0.8	PASS
Yellow[Q] (INCT)	1.32	≥0.6	PASS
Green[Q] (INCT)	0.85	≥0.6	PASS
Blue[Q] (INCT)	0.39	≥0.7	REF.

American National Standard [ANSI Z80.3-2015]

High and prolonged exposure NO

Item	Value	Requirement	Results
Transmittance(Tc)	53.49%		
Filter Category	(Cosmetic lens or shield, light)		
Tsig Vaules			
Red	82.58%	≥8%	PASS
Yellow	73.55%	≥6%	PASS
Green	40.11%	≥6%	PASS
Mean Transmittance			
Tsb	1.98%		
UVB (280nm~315nm)	0.00%	<=6.69%(0.125Tv)	PASS
UVA (315nm~380nm)	0.01%	<=53.49%(Tv)	PASS
Tmin (475nm~650nm)	2.86%	>=10.70%(0.2Tv)	REF.
Color CIE			
Day light (D65)	X:0.506 Y:0.468		REF.
YELLOW	X:0.591 Y:0.408		PASS
GREEN	X:0.354 Y:0.594		REF.



CIE 1976 L*,a*,b* col L*= 77.86 a*= 17.58 b*= 101.72

Ap% 100.00% P%= 100.00% Photochromic= 0.00 UV400= 0.00

Spectrum Data:

780	87.71	775	86.41	770	86.11	765	85.76	760	85.24	755	85.19	750	84.66	745	84.38
740	84.44	735	84.99	730	85.18	725	85.61	720	86.04	715	86.31	710	86.59	705	86.87
700	86.78	695	86.64	690	86.57	685	86.32	680	86.14	675	85.74	670	85.56	665	85.22
660	84.51	655	84.17	650	83.70	645	82.74	640	82.12	635	81.75	630	81.39	625	81.41
620	81.64	615	81.48	610	81.46	605	80.89	600	80.34	595	78.84	590	77.93	585	76.26
580	74.89	575	73.36	570	71.10	565	68.01	560	64.63	555	60.71	550	55.99	545	50.91
540	45.22	535	38.57	530	31.60	525	25.38	520	20.53	515	16.21	510	13.06	505	10.92
500	9.11	495	7.39	490	5.54	485	4.36	480	3.42	475	2.86	470	2.47	465	2.15
460	1.79	455	1.05	450	1.21	445	1.14	440	1.24	435	1.42	430	1.64	425	1.73
420	1.54	415	0.72	410	0.71	405	0.61	400	0.51	395	0.00	390	0.02	385	0.05
380	0.07	375	0.08	370	0.08	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

