

INFORME TÉCNICO DE TRANSMITANCIA ESPECTRAL DEFENDER NEURO 1.50 DEFENDER NEURO 99,3% HMC RED

Certification Report

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

Standard: ANSI Z80.3:2018

Item	Value	Requirement	Result
Lens Primary Function	General Purpose		
Luminous Transmittance Tv	10.56 %	8% ~ 40%	PASS
Color Limit, Yellow(x,y)	(0.6843 , 0.3155)		FAILED
Color Limit, Green(x,y)	(0.5356 , 0.3502)		FAILED
Color Limit, D65(x,y)	(0.6602 , 0.3186)		FAILED
Tsig, Red Signal	63.74 %	>=8.00%	PASS
Tsig, Yellow Signal	22.82 %	>=6.00%	PASS
Tsig, Green Signal	1.97 %	>=6.00%	FAILED
Tmin (475- 650nm)	0.00 %	>=2.11%(0.2Tv)	FAILED
Tmax UVB (280- 315nm)	0.04 %	<=1.32%(0.125Tv)	PASS
Tmax UVA (315- 380nm)	0.00 %	<=10.56%(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	10.39 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	4.95	>=0.80	PASS
Q, Yellow	2.03	>=0.60	PASS
Q, Green	0.16	>=0.60	FAILED
Q, Blue	0.43	>=0.60	FAILED
LED Signal Lights			
Q, Red	5.47	>=0.80	PASS
Q, Yellow	1.20	>=0.60	PASS
Q, Green	0.04	>=0.60	FAILED
Q, Blue	0.09	>=0.60	FAILED
Tmin (475- 650nm)	0.00 %	>=2.11%(0.2Tv)	FAILED
Tsuva (315- 380nm)	0.03 %	<=5.28%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=1.00%	PASS
Tsuv (280- 380nm)	0.02 %		
Tsb (380- 500nm)	0.64 %		
Road Use And Driving			FAILED
Driving In Twilight or Night	10.55	Tv >= 75% NOT SUITABLE	

Standard:AS/NZS 1067.1:2016

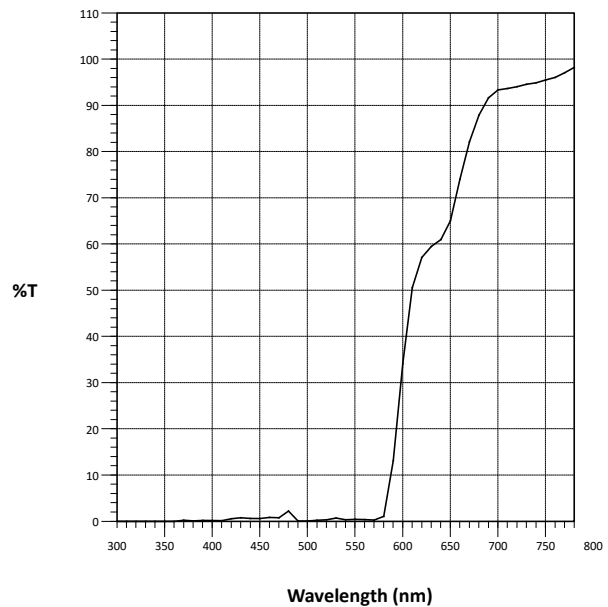
Item	Value	Requirement	Result
Lens Category	3		
Luminous Transmittance Tv	10.40 %	8% ~ 18%	PASS
Incandescent Lights			
Q, Red	4.95	>=0.80	PASS
Q, Yellow	2.03	>=0.60	PASS
Q, Green	0.16	>=0.60	FAILED
Q, Blue	0.43	>=0.70	FAILED
LED Signal Lights			
Q, Red	5.47	>=0.80	PASS
Q, Yellow	1.20	>=0.60	PASS
Q, Green	0.04	>=0.60	FAILED
Q, Blue	0.09	>=0.70	FAILED
Tmin (475-650nm)	0.05 %	>=2.08%(0.2Tv)	FAILED
Tsuva (315- 400nm)	0.05 %	<=5.20%(0.5Tv)	PASS
Tsuvb (280- 315nm)	0.00 %	<=0.52%(0.05Tv)	PASS
Tsuv (280- 380nm)	0.02 %		
Tsb (380- 500nm)	0.64 %		

CIE 1976 L*,a*,b* color space coordinates,illuminan D65
L*=37.564 a*=65.212 b*=52.909

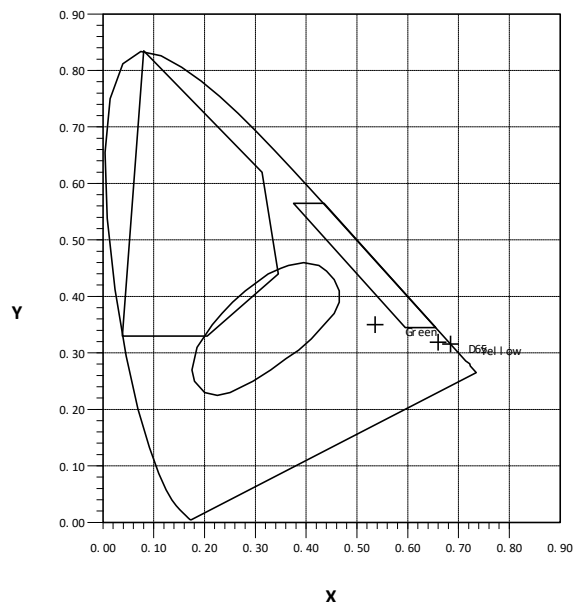
Spectrum Data:

nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T	nm	%T
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	0.25	380	0.11	390	0.21
400	0.19	410	0.16	420	0.57	430	0.79	440	0.64	450	0.62	460	0.86	470	0.79	480	2.23	490	0.08	500	0.08	510	0.24
520	0.35	530	0.73	540	0.35	550	0.45	560	0.39	570	0.29	580	1.09	590	13.13	600	34.14	610	50.58	620	57.11	630	59.49
640	60.97	650	65.02	660	74.03	670	82.12	680	87.91	690	91.64	700	93.36	710	93.67	720	94.06	730	94.58	740	94.90	750	95.51
760	96.06	770	97.07	780	98.22																		

Transmittance Spectrum



Color Limit Regions of Acceptance



(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