

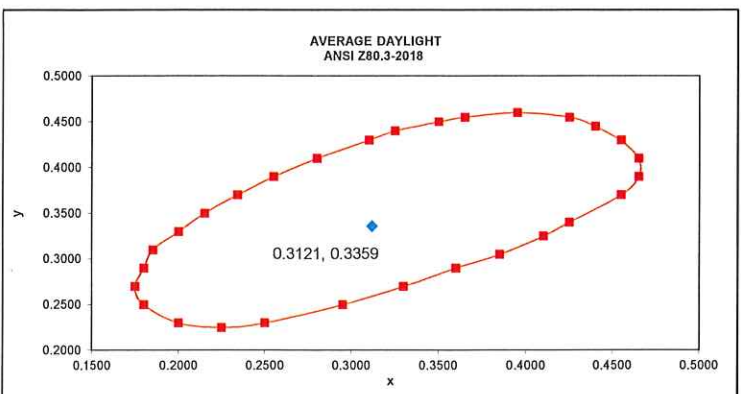
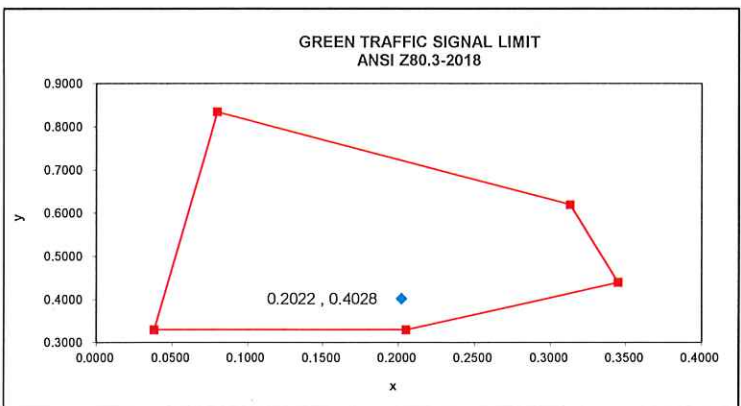
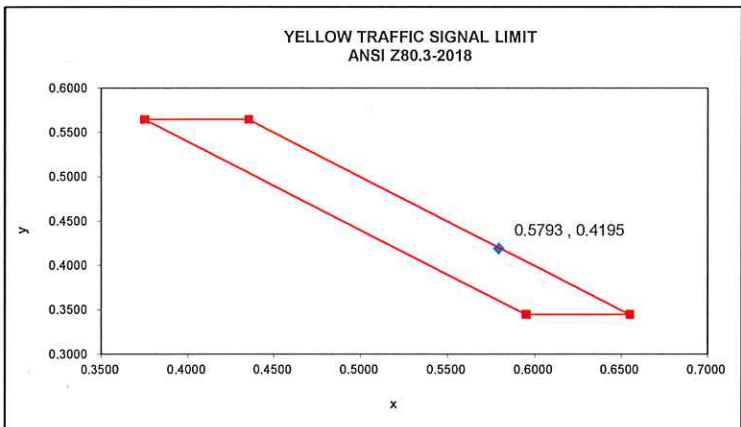
Color Data

ANSI Z80.3-2018			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	11.1	PASS
Primary Function	Range of Lum Transm		
Cosmetic lens	> 40%		
General purpose	8 - 40%	GENERAL PURPOSE	
Special purpose	3 - 8%		
Traffic Signal Color Limits		x y	
Yellow	see 'YelTraffic' chart	0.5793 0.4195	
Green	see 'GrTraffic' chart	0.2022 0.4028	
Average Daylight	see 'AvgDLight' chart	0.3121 0.3359	
Traffic Signal Transmittance		τ (sig)	
Red	≥ 8%	11.8	PASS
Yellow	≥ 6%	11.0	PASS
Green	≥ 6%	11.2	PASS
Mean Transmittance	NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE RESULT
UVB (280-315nm)	1.39%	1.00%	-0.001% PASS PROLONGED
UVA (315-380nm)	11.13%	5.56%	0.003% PASS PROLONGED
Spectral Transmittance (475nm-650nm)	≥ 0.2 T _v	9.61	PASS
Polarizer Type			
Type 1	R _{IV} > 20	208	Type 1
Type 2	R _{IV} > 8		

COLOR		
Color Code:		GS
TEST	VALUE	Tolerance
%T	11.1	
L*	39.9	
a*	-2.6	
b*	1.9	

POLARIZATION EFFICIENCY	
PE (%) :	99.6%

ISO 12312-1:2013(A1.2015)			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	11.1	PASS
Filter Category	Range of Lum Transm		
	0	80 - 100%	
	1	43 - 80%	
	2	18 - 43%	
	3	8 - 18%	CATEGORY 3
	4	3 - 8%	
Recognition of Signal Lights	Q (τ _{sign} /τ _v)		
Red	≥ .80	1.01	PASS
Yellow	≥ .60	0.99	PASS
Green	≥ .60	1.00	PASS
Blue	≥ .60	1.09	PASS
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE RESULT
Spectral Transmittance(475nm-650nm)		≥ 0.2 T _v	9.61 PASS
τ _{SUVA} (315-380nm)	11.11%	1.00%	0.01% PASS
τ _{SUVB} (280-315nm)	5.55%	1.00%	0.00% PASS
Solar Blue Light Transmittance	10.41		



AS/NZS 1067.1:2016				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	11.1	PASS	
Filter Category	Range of Lum Transm			
	0	80 - 100%		
	1	43 - 80%		
	2	18 - 43%		
	3	8 - 18%	CATEGORY 3	
	4	3 - 8%		
Signal Lights Recog	Q (τ _{sign} /τ _v)			
Red	≥ .80	1.01	PASS	
Yellow	≥ .60	0.99	PASS	
Green	≥ .60	1.00	PASS	
Blue	≥ .70	1.09	PASS	
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4(max)	VALUE	RESULT
τ _{SUVA} (315-400nm)	11.11%	5.55%	0.01%	PASS
τ _{SUVB} (280-315nm)	0.56%	0.56%	0.00%	PASS
Minimum Spectral Tv (475nm-650nm)	≥ 0.2 T _v	9.61	PASS	
Solar Blue Light Transmittance (380nm-500nm)	10.41			

