

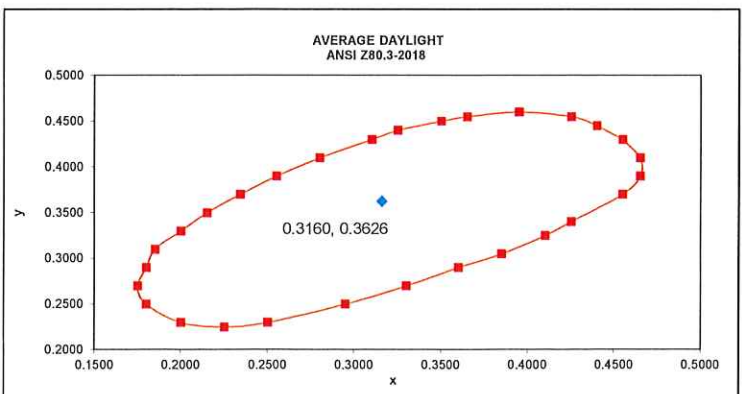
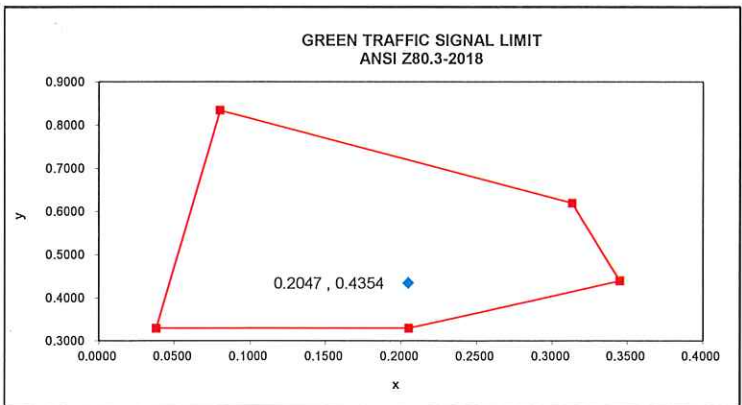
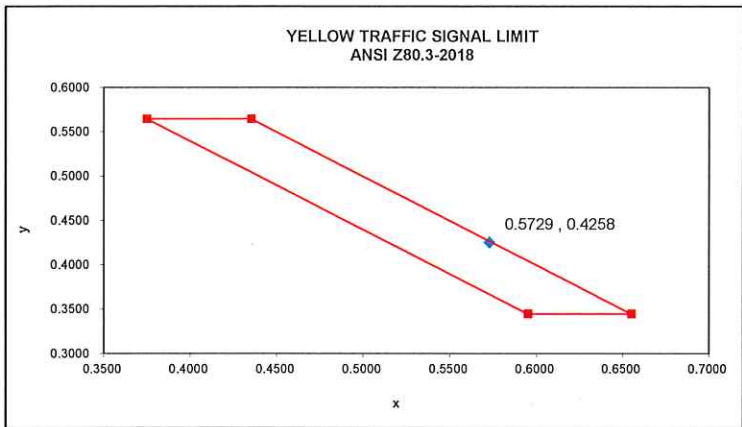
Color Data

ANSI Z80.3-2018				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	16.5	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	0.5729	0.4258	
Green	see 'GrTraffic' chart	0.2047	0.4354	
Average Daylight	see 'AvgDLight' chart	0.3160	0.3626	
Traffic Signal Transmittance		τ(sig)		
Red	≥ 8%	16.0	PASS	
Yellow	≥ 6%	15.8	PASS	
Green	≥ 6%	17.1	PASS	
Mean Transmittance	NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE	RESULT
UVB (280-315nm)	2.06%	1.00%	-0.001%	PASS PROLONGED
UVA (315-380nm)	16.51%	8.26%	0.005%	PASS PROLONGED
Spectral Transmittance (475nm-650nm)	≥ 0.2 T _v	14.17	PASS	
Polarizer Type				
Type 1	R _{IV} > 20	218	Type 1	
Type 2	R _{IV} > 8			

COLOR		
Color Code:		G15
TEST	VALUE	Tolerance
%T	16.5	
L*	47.6	
a*	-7.7	
b*	8.0	

POLARIZATION EFFICIENCY	
PE (%) :	99.7%

ISO 12312-1:2013(A1.2015)				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	16.5	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 _{sig} /τ _v)			
Red	≥ .80	0.93	PASS	
Yellow	≥ .60	0.96	PASS	
Green	≥ .60	1.02	PASS	
Blue	≥ .60	1.05	PASS	
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	RESULT
Spectral Transmittance(475nm-650nm)		≥ 0.2 T _v	14.17	PASS
τ SUVA (315-380nm)	16.52%	1.00%	0.01%	PASS
τ SUVB (280-315nm)	8.26%	1.00%	0.00%	PASS
Solar Blue Light Transmittance			12.92	



AS/NZS 1067.1:2016				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	16.5	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 _{sig} /τ _v)			
Red	≥ .80	0.93	PASS	
Yellow	≥ .60	0.96	PASS	
Green	≥ .60	1.02	PASS	
Blue	≥ .70	1.05	PASS	
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4(max)	VALUE	RESULT
τ SUVA (315-400nm)	16.52%	8.26%	0.01%	PASS
τ SUVB (280-315nm)	0.83%	0.83%	0.00%	PASS
Minimum Spectral Tv (475nm-650nm)	≥ 0.2 T _v	14.17	PASS	
Solar Blue Light Transmittance (380nm-500nm)			12.92	

