

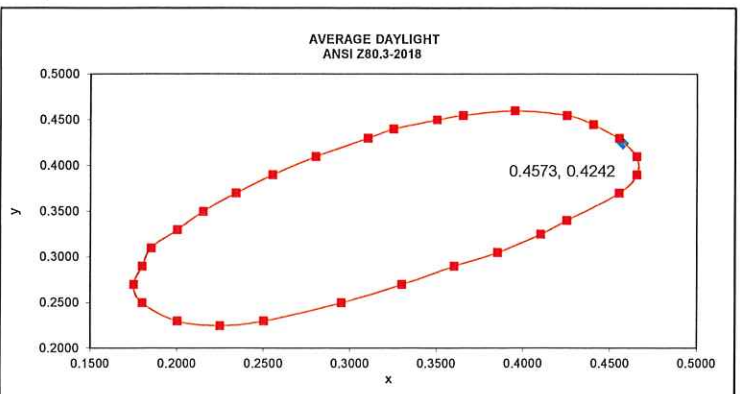
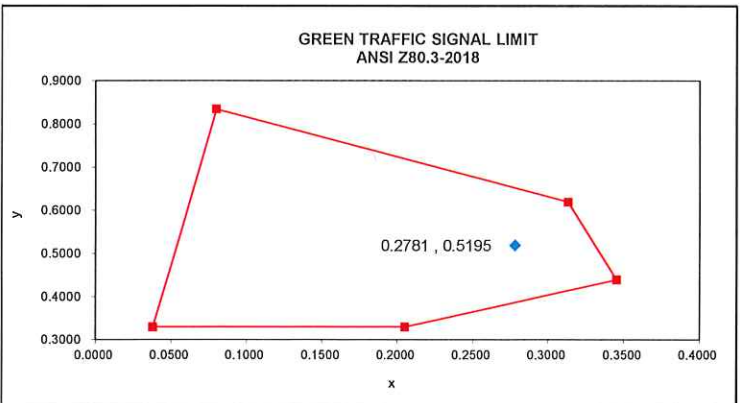
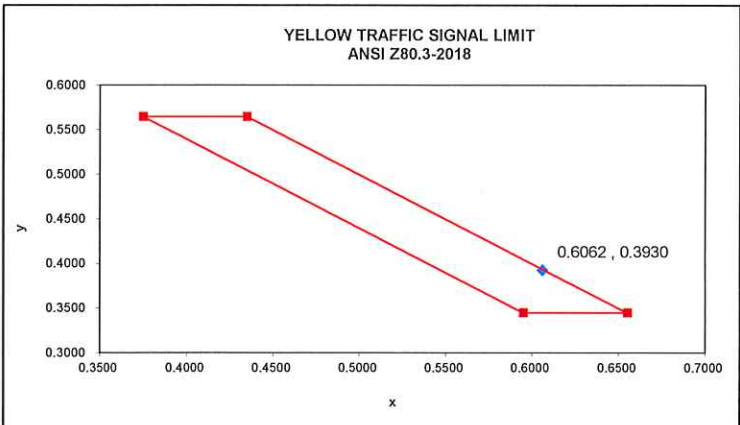
Color Data

ANSI Z80.3-2018			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	12.0	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	0.6062 0.3930	
Green	see 'GrTraffic' chart	0.2781 0.5195	
Average Daylight	see 'AvgDLight' chart	0.4573 0.4242	
Traffic Signal Transmittance		τ (sig)	
Red	$\geq 8\%$	20.3	PASS
Yellow	$\geq 6\%$	15.5	PASS
Green	$\geq 6\%$	9.6	PASS
Mean Transmittance	NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE RESULT
UVB (280-315nm)	1.50%	1.00%	-0.001% PASS PROLONGED
UVA (315-380nm)	11.97%	5.98%	-0.001% PASS PROLONGED
Spectral Transmittance (475nm-650nm)	$\geq 0.2 T_v$	4.64	PASS
Polarizer Type			
Type 1	$R_{IV} > 20$	159	Type 1
Type 2	$R_{IV} > 8$		

COLOR		
Color Code:		BS
TEST	VALUE	Tolerance
%T	12.0	
L*	40.3	
a*	11.4	
b*	36.3	

POLARIZATION EFFICIENCY	
PE (%) :	99.3%

ISO 12312-1:2013(A1.2015)			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	11.9	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	$Q (\tau_{\text{sig}} / \tau_v)$		
Red	$\geq .80$	1.62	PASS
Yellow	$\geq .60$	1.25	PASS
Green	$\geq .60$	0.88	PASS
Blue	$\geq .60$	0.68	PASS
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE RESULT
Spectral Transmittance(475nm-650nm)		$\geq 0.2 T_v$	4.64 PASS
τ_{SUVA} (315-380nm)	11.88%	1.00%	0.00% PASS
τ_{SUVB} (280-315nm)	5.94%	1.00%	0.00% PASS
Solar Blue Light Transmittance	2.67		



AS/NZS 1067.1:2016			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	11.9	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	$Q (\tau_{\text{sig}} / \tau_v)$		
Red	$\geq .80$	1.62	PASS
Yellow	$\geq .60$	1.25	PASS
Green	$\geq .60$	0.88	PASS
Blue	$\geq .70$	0.70	PASS
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4 (max)	VALUE RESULT
τ_{SUVA} (315-400nm)	11.88%	5.94%	0.00% PASS
τ_{SUVB} (280-315nm)	0.59%	0.59%	0.00% PASS
Minimum Spectral Tv (475nm-650nm)	$\geq 0.2 T_v$	4.64	PASS
Solar Blue Light Transmittance (380nm-500nm)	2.67		

