

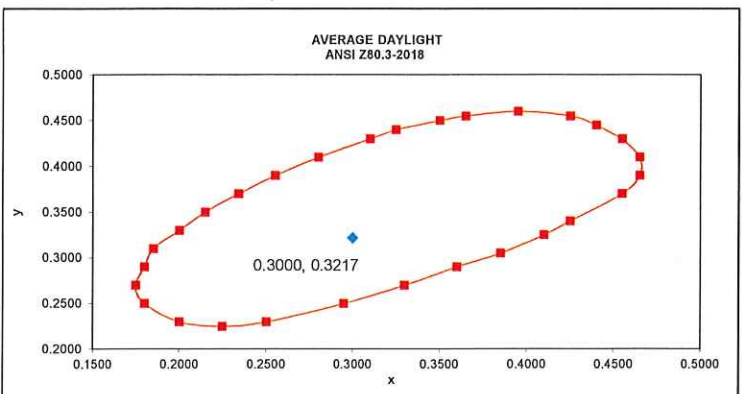
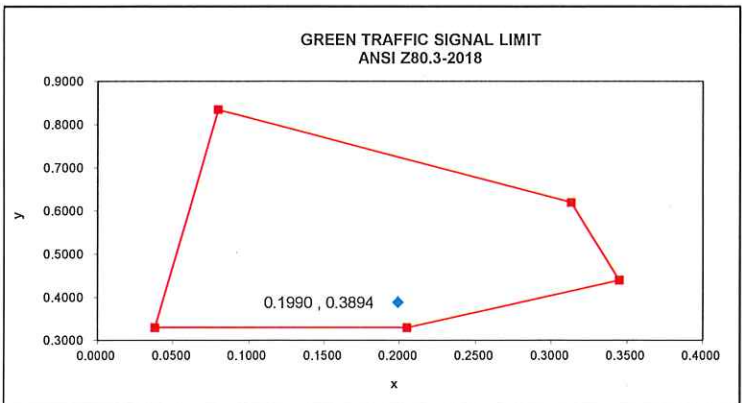
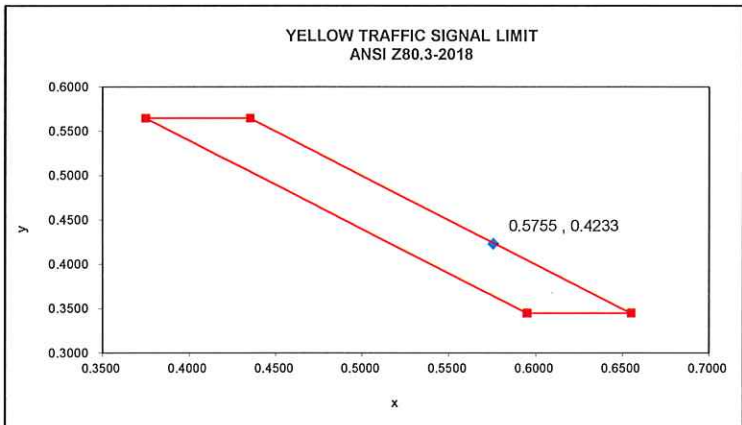
Color Data

ANSI Z80.3-2018				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	19.1	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	0.5755	0.4233	
Green	see 'GrTraffic' chart	0.1990	0.3894	
Average Daylight	see 'AvgDLight' chart	0.3000	0.3217	
Traffic Signal Transmittance		τ (sig)		
Red	$\geq 8\%$	18.9	PASS	
Yellow	$\geq 6\%$	18.4	PASS	
Green	$\geq 6\%$	19.5	PASS	
Mean Transmittance		NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE
UVB (280-315nm)	2.39%	1.00%	-0.001%	PASS PROLONGED
UVA (315-380nm)	19.10%	9.55%	0.006%	PASS PROLONGED
Spectral Transmittance (475nm-650nm)		$\geq 0.2 T_v$	16.85	PASS
Polarizer Type				
Type 1	$R_{IV} > 20$	172	Type 1	
Type 2	$R_{IV} > 8$			

COLOR		
Color Code:		GYO
TEST	VALUE	Tolerance
%T	19.1	
L*	51.0	
a*	-2.8	
b*	-2.4	

POLARIZATION EFFICIENCY	
PE (%) :	99.4%

ISO 12312-1:2013(A1.2015)				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	19.1	PASS	
Filter Category	Range of Lum Transm			
	0	80 - 100%		
	1	43 - 80%		
	2	18 - 43%	CATEGORY 2	
	3	8 - 18%		
	4	3 - 8%		
Recognition of Signal Lights		Q ($\tau_{\text{sig}} / \tau_v$)		
Red	$\geq .80$	0.96	PASS	
Yellow	$\geq .60$	0.97	PASS	
Green	$\geq .60$	1.01	PASS	
Blue	$\geq .60$	1.10	PASS	
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	RESULT
Spectral Transmittance(475nm-650nm)		$\geq 0.2 T_v$	16.85	PASS
τ SUVA (315-380nm)	19.08%	1.00%	0.01%	PASS
τ SUBV (280-315nm)	9.54%	1.00%	-0.01%	PASS
Solar Blue Light Transmittance			20.34	



AS/NZS 1067.1:2016				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	19.1	PASS	
Filter Category	Range of Lum Transm			
	0	80 - 100%		
	1	43 - 80%		
	2	18 - 43%	CATEGORY 2	
	3	8 - 18%		
	4	3 - 8%		
Signal Lights Recog		Q ($\tau_{\text{sig}} / \tau_v$)		
Red	$\geq .80$	0.96	PASS	
Yellow	$\geq .60$	0.97	PASS	
Green	$\geq .60$	1.01	PASS	
Blue	$\geq .70$	1.10	PASS	
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4(max)	VALUE	RESULT
τ SUVA (315-400nm)		19.08%	9.54%	0.01%
τ SUBV (280-315nm)		0.95%	0.95%	0.00%
Minimum Spectral Tv (475nm-650nm)		$\geq 0.2 T_v$	16.85	PASS
Solar Blue Light Transmittance (380nm-500nm)			20.34	

