

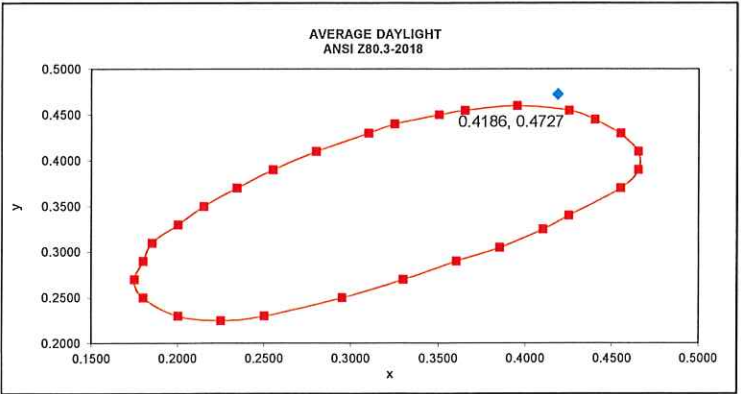
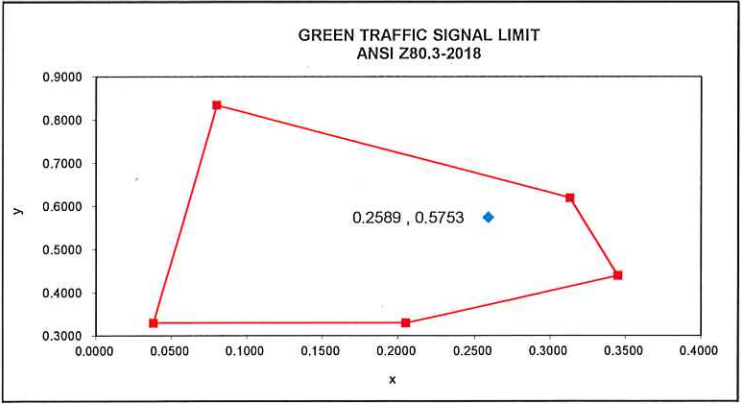
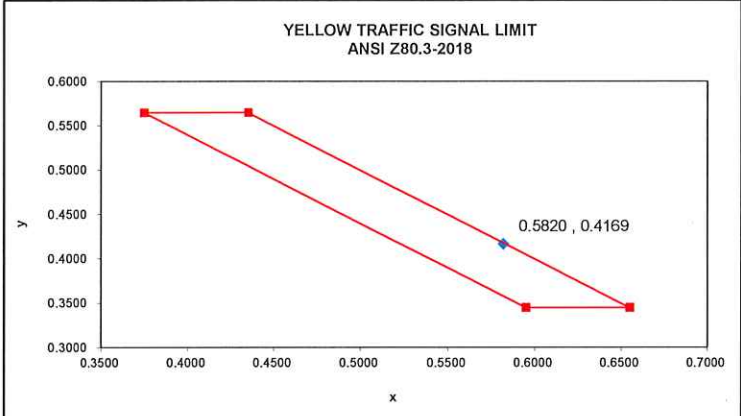
Color Data

ANSI Z80.3-2018				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	28.7	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	0.5820	0.4169	
Green	see 'GrTraffic' chart	0.2589	0.5753	
Average Daylight	see 'AvgDLight' chart	0.4186	0.4727	
Traffic Signal Transmittance		τ (sig)		
Red	$\geq 8\%$	33.8	PASS	
Yellow	$\geq 6\%$	31.9	PASS	
Green	$\geq 6\%$	27.2	PASS	
Mean Transmittance	NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE	RESULT
UVB (280-315nm)	3.59%	1.00%	0.000%	PASS PROLONGED
UVA (315-380nm)	28.74%	14.37%	0.000%	PASS PROLONGED
Spectral Transmittance (475nm-650nm)	$\geq 0.2 T_v$	8.56	PASS	
Polarizer Type				
Type 1	$R_{IV} > 20$	47	Type 1	
Type 2	$R_{IV} > 8$			

COLOR		
Color Code:		YEL
TEST	VALUE	Tolerance
%T	28.7	
L*	59.5	
a*	-4.0	
b*	54.4	

POLARIZATION EFFICIENCY	
PE (%) :	96.4%

ISO 12312-1:2013(A1.2015)				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	28.8	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	$\geq .80$	1.16	PASS	
Yellow	$\geq .60$	1.09	PASS	
Green	$\geq .60$	1.00	PASS	
Blue	$\geq .60$	0.73	PASS	
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE	RESULT
Spectral Transmittance(475nm-650nm)		$\geq 0.2 T_v$	8.56	PASS
τ_{SUVA} (315-380nm)	28.76%	1.00%	0.00%	PASS
τ_{SUVB} (280-315nm)	14.38%	1.00%	0.00%	PASS
Solar Blue Light Transmittance	5.06			



AS/NZS 1067.1:2016				
TEST	REQUIREMENT	VALUE	RESULT	
Luminous Transmittance	8 - 40%	28.8	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	$\geq .80$	1.16	PASS	
Yellow	$\geq .60$	1.09	PASS	
Green	$\geq .60$	1.00	PASS	
Blue	$\geq .70$	0.73	PASS	
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4(max)	VALUE	RESULT
τ_{SUVA} (315-400nm)	28.76%	14.38%	0.00%	PASS
τ_{SUVB} (280-315nm)	1.44%	1.44%	0.00%	PASS
Minimum Spectral T_v (475nm-650nm)	$\geq 0.2 T_v$	8.56	PASS	
Solar Blue Light Transmittance (380nm-500nm)	5.06			

