

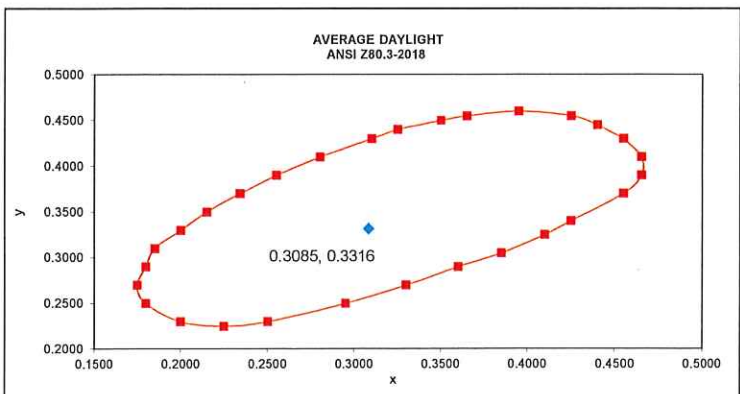
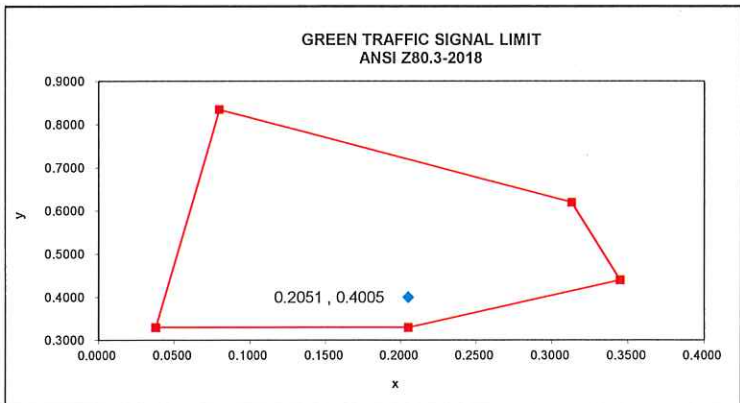
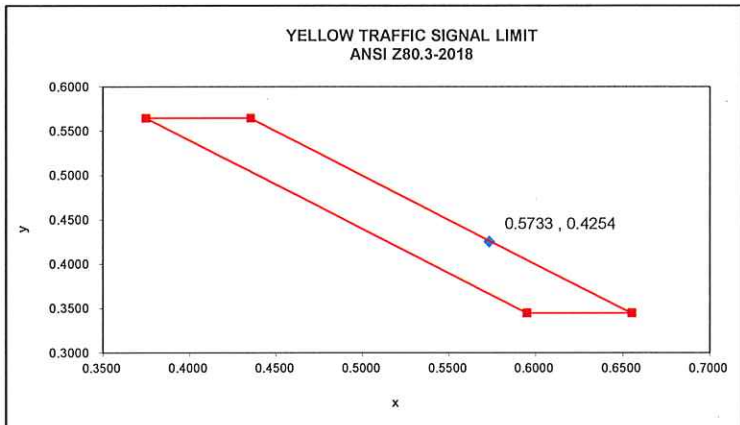
**Color Data**

ANSI Z80.3-2018			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	33.4	PASS
Primary Function	Range of Lum Transm		
Cosmetic lens	> 40%		
General purpose	8 - 40%	<b>GENERAL PURPOSE</b>	
Special purpose	3 - 8%		
Traffic Signal Color Limits		x      y	
Yellow	see 'YelTraffic' chart	0.5733    0.4254	
Green	see 'GrTraffic' chart	0.2051    0.4005	
Average Daylight	see 'AvgDLight' chart	0.3085    0.3316	
Traffic Signal Transmittance		$\tau$ (sig)	
Red	$\geq 8\%$	31.3	PASS
Yellow	$\geq 6\%$	32.8	PASS
Green	$\geq 6\%$	33.8	PASS
Mean Transmittance	NORMAL USE (max)	PROLONGED EXPOSURE (max)	VALUE      RESULT
UVB (280-315nm)	4.17%	1.00%	0.004%    PASS PROLONGED
UVA (315-380nm)	33.38%	16.69%	0.013%    PASS PROLONGED
Spectral Transmittance (475nm-650nm)	$\geq 0.2 T_v$	29.23	PASS
Polarizer Type			
Type 1	$R_{IV} > 20$	25	Type 1
Type 2	$R_{IV} > 8$		

COLOR		
Color Code:		<b>G35</b>
TEST	VALUE	Tolerance
%T	33.4	
L*	64.5	
a*	-2.7	
b*	0.6	

POLARIZATION EFFICIENCY	
PE (%) :	<b>92.8%</b>

ISO 12312-1:2013(A1.2015)			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	33.4	PASS
Filter Category	Range of Lum Transm		
0	80 - 100%		
1	43 - 80%		
2	18 - 43%	<b>CATEGORY 2</b>	
3	8 - 18%		
4	3 - 8%		
Recognition of Signal Lights	$Q (\tau_{\text{sign}} / \tau_v)$		
Red	$\geq .80$	0.95	PASS
Yellow	$\geq .60$	0.98	PASS
Green	$\geq .60$	1.01	PASS
Blue	$\geq .60$	1.03	PASS
Solar UV Transmittance	Category 0, 1, 2 (max)	Category 3, 4 (max)	VALUE      RESULT
Spectral Transmittance(475nm-650nm)		$\geq 0.2 T_v$	29.23      PASS
$\tau_{\text{SUVA}}$ (315-380nm)	33.41%	1.00%	0.04%      PASS
$\tau_{\text{SUVB}}$ (280-315nm)	16.71%	1.00%	0.01%      PASS
Solar Blue Light Transmittance			32.87



AS/NZS 1067.1:2016			
TEST	REQUIREMENT	VALUE	RESULT
Luminous Transmittance	8 - 40%	33.4	PASS
Filter Category	Range of Lum Transm		
0	80 - 100%		
1	43 - 80%		
2	18 - 43%	<b>CATEGORY 2</b>	
3	8 - 18%		
4	3 - 8%		
Signal Lights Recog	$Q (\tau_{\text{sign}} / \tau_v)$		
Red	$\geq .80$	0.95	PASS
Yellow	$\geq .60$	0.98	PASS
Green	$\geq .60$	1.01	PASS
Blue	$\geq .70$	1.03	PASS
Solar UV Transmittance	Category 0, 1 (max)	Category 2, 3, 4(max)	VALUE      RESULT
$\tau_{\text{SUVA}}$ (315-400nm)	33.41%	16.71%	0.04%      PASS
$\tau_{\text{SUVB}}$ (280-315nm)	1.67%	1.67%	0.01%      PASS
Minimum Spectral Tv (475nm-650nm)	$\geq 0.2 T_v$	29.23	PASS
Solar Blue Light Transmittance (380nm-500nm)			32.87

