

## Certification Report

Customer Ref Code : L021-HYHC

Sample Remark :

Lens Type : Plano

Lens Ref Code :

## Standard: ANSI Z80.3:2018

| Item                      | Value               | Requirement      | Result |
|---------------------------|---------------------|------------------|--------|
| Lens Primary Function     | General Purpose     |                  |        |
| Luminous Transmittance Tv | 27.97 %             | 8% ~ 40%         | PASS   |
| Color Limit, Yellow(x,y)  | ( 0.6455 , 0.3541 ) |                  | PASS   |
| Color Limit, Green(x,y)   | ( 0.5049 , 0.4172 ) |                  | FAILED |
| Color Limit, D65(x,y)     | ( 0.6127 , 0.3630 ) |                  | FAILED |
| Tsig, Red Signal          | 91.08 %             | >=8.00%          | PASS   |
| Tsig, Yellow Signal       | 53.16 %             | >=6.00%          | PASS   |
| Tsig, Green Signal        | 9.14 %              | >=6.00%          | PASS   |
| Tmin (475- 650nm)         | 0.42 %              | >=5.59%(0.2Tv)   | FAILED |
| Tmax UVB (280- 315nm)     | 0.00 %              | <=3.50%(0.125Tv) | PASS   |
| Tmax UVA (315- 380nm)     | 0.08 %              | <=27.97%(Tv)     | PASS   |
| Tsb (380- 500nm)          | 1.58 %              |                  |        |

## Standard: EN ISO 12312-1:2013(A1:2015)

| Item                         | Value   | Requirement            | Result |
|------------------------------|---------|------------------------|--------|
| Filter Category              | 2       |                        |        |
| Luminous Transmittance Tv    | 27.97 % | 18% ~ 43%              | PASS   |
| Incandescent Lights          |         |                        |        |
| Q, Red                       | 3.12    | >=0.80                 | PASS   |
| Q, Yellow                    | 1.75    | >=0.60                 | PASS   |
| Q, Green                     | 0.37    | >=0.60                 | FAILED |
| Q, Blue                      | 0.26    | >=0.60                 | FAILED |
| Tmin (475- 650nm)            | 0.42 %  | >=5.59%(0.2Tv)         | FAILED |
| Tsuva (315- 380nm)           | 0.08 %  | <=13.99%(0.5Tv)        | PASS   |
| Tsuvb (280- 315nm)           | 0.00 %  | <=1.40%(0.05Tv)        | PASS   |
| Tsuv (280- 400nm)            | 0.05 %  |                        |        |
| Tsb (380- 500nm)             | 1.58 %  |                        |        |
| Road Use And Driving         |         |                        | FAILED |
| Driving In Twilight or Night | 27.97   | Tv >= 75% NOT SUITABLE |        |

## Standard:AS/NZS 1067.1:2016

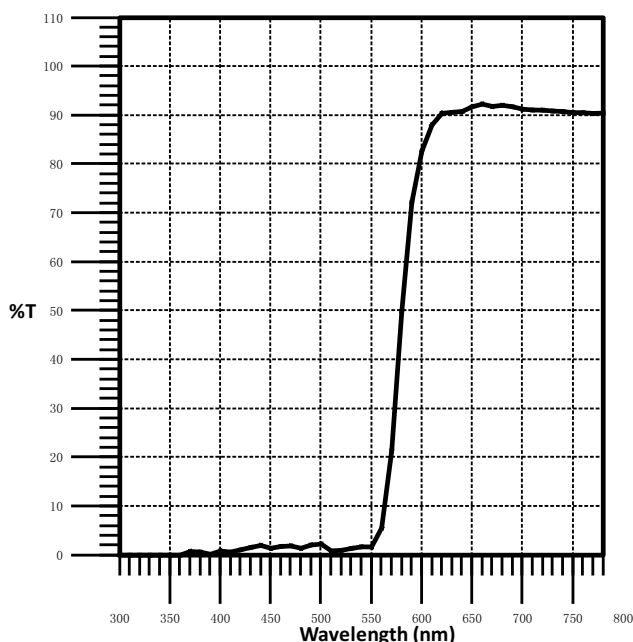
| Item                      | Value   | Requirement     | Result |
|---------------------------|---------|-----------------|--------|
| Lens Category             | 2       |                 |        |
| Luminous Transmittance Tv | 27.97 % | 18% ~ 43%       | PASS   |
| Incandescent Lights       |         |                 |        |
| Q, Red                    | 3.12    | >=0.80          | PASS   |
| Q, Yellow                 | 1.75    | >=0.60          | PASS   |
| Q, Green                  | 0.37    | >=0.60          | FAILED |
| Q, Blue                   | 0.26    | >=0.70          | FAILED |
| Tmin (475-650nm)          | 0.42 %  | >=5.59%(0.2Tv)  | FAILED |
| Tsuva (315- 400nm)        | 0.13 %  | <=27.97%(Tv)    | PASS   |
| Tsuvb (280- 315nm)        | 0.00 %  | <=1.40%(0.05Tv) | PASS   |
| Tsuv (280- 380nm)         | 0.05 %  |                 |        |
| Tsb (380- 500nm)          | 1.58 %  |                 |        |

CIE 1976 L\*,a\*,b\* color space coordinates,illuminan D65  
 L\*=57.876 a\*=67.001 b\*=76.740

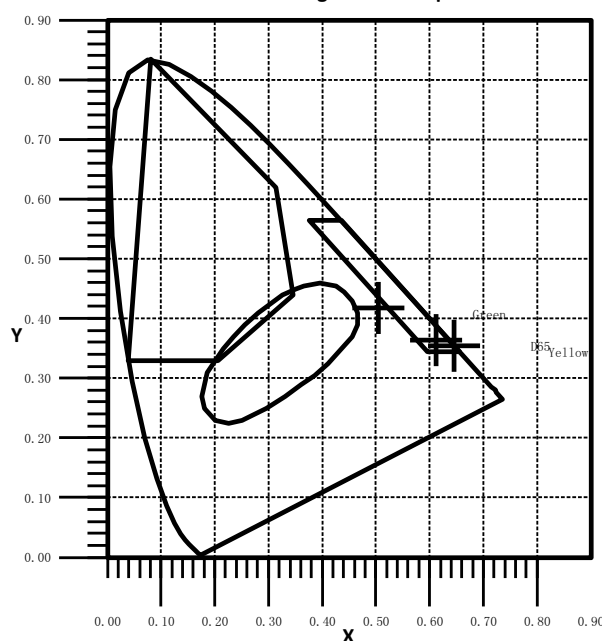
Spectrum Data:

| nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    | nm  | %T    |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 280 | 0.00  | 290 | 0.00  | 300 | 0.00  | 310 | 0.00  | 320 | 0.00  | 330 | 0.00  | 340 | 0.00  | 350 | 0.00  | 360 | 0.00  | 370 | 0.75  |
| 410 | 0.63  | 420 | 1.09  | 430 | 1.57  | 440 | 1.99  | 450 | 1.42  | 460 | 1.77  | 470 | 1.88  | 480 | 1.41  | 490 | 2.07  | 500 | 2.27  |
| 540 | 1.69  | 550 | 1.69  | 560 | 5.55  | 570 | 21.36 | 580 | 49.89 | 590 | 72.23 | 600 | 82.73 | 610 | 88.05 | 620 | 90.45 | 630 | 90.64 |
| 670 | 91.85 | 680 | 92.07 | 690 | 91.78 | 700 | 91.29 | 710 | 91.12 | 720 | 91.09 | 730 | 90.91 | 740 | 90.80 | 750 | 90.59 | 760 | 90.57 |
|     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       | 770 | 90.42 |
|     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       | 780 | 90.48 |

Transmittance Spectrum



Color Limit Regions of Acceptance



- (1). ANSI Z80.3:2018  
 (2). EN ISO 12312-1:2013(A1:2015)  
 (3). AS/NZS 1067.1:2016

FAILED  
 FAILED  
 FAILED

Lens Primary Function General Purpose  
 Filter Category 2  
 Lens Category 2