

### Sunglasses Certification Report

Sample Name: XE3 Nylon Polarized DS248  
 Company: Insqector:A  
 Material: XE3 Nylon Polarized SRN12/0188  
 Size: Dec B800x83x60x2.0 2013-04-11

**Standard: ANSI Z80.3:2010**

| Item                      | Value             | Requirement        | Result |
|---------------------------|-------------------|--------------------|--------|
| Lens Primary Function     | General Purpose   |                    |        |
| Luminous Transmittance Tv | 11.81%            | 8% - 40%           | PASS   |
| Color Limit, Yellow(x,y)  | (0.5857 , 0.4131) |                    | PASS   |
| Color Limit, Green(x,y)   | (0.1875 , 0.3704) |                    | PASS   |
| Color Limit, D65(x,y)     | (0.2925 , 0.3112) |                    | PASS   |
| Tsig, Red Signal          | 13.09%            | >= 8%              | PASS   |
| Tsig, Yellow Signal       | 11.17%            | >= 6%              | PASS   |
| Tsig, Green Signal        | 12.16%            | >= 6%              | PASS   |
| Tmin (475 - 650nm)        | 9.73%             | >= 2.36% (0.2Tv)   | PASS   |
| Tmean UVB (280 - 315nm)   | 0.00%             | <= 1.48% (0.125Tv) | PASS   |
| Tmean UVA (315 - 380nm)   | 0.00%             | <= 11.81% (Tv)     | PASS   |
| Tsb (380 - 500nm)         | 13.23%            |                    |        |

**Standard: EN 1836:2005 (A1:2007)**

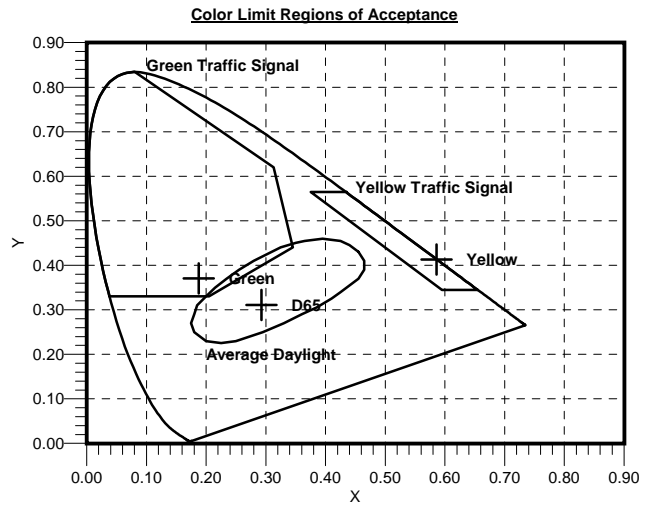
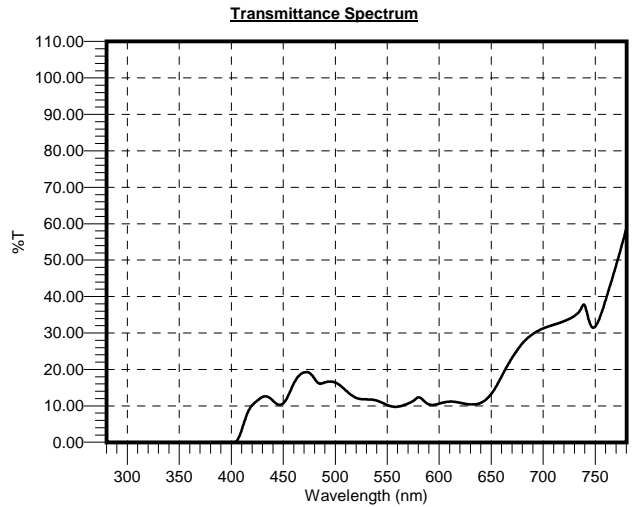
| Item                      | Value  | Requirement      | Result |
|---------------------------|--------|------------------|--------|
| Filter Category           | 3      |                  |        |
| Luminous Transmittance Tv | 11.81% | 8% - 18%         | PASS   |
| Q, Red                    | 1.00   | >= 0.80          | PASS   |
| Q, Yellow                 | 0.95   | >= 0.80          | PASS   |
| Q, Green                  | 1.02   | >= 0.60          | PASS   |
| Q, Blue                   | 1.21   | >= 0.40          | PASS   |
| Tmean (280 - 315nm)       | 0.00%  | <= 1.18% (0.1Tv) | PASS   |
| Tmean (315 - 350nm)       | 0.00%  | <= 5.90% (0.5Tv) | PASS   |
| Tmin (500 - 650nm)        | 9.73%  | >= 2.36% (0.2Tv) | PASS   |
| Tsuva (315 - 380nm)       | 0.00%  | <= 5.90% (0.5Tv) | PASS   |
| Tsubv (280 - 315nm)       | 0.00%  |                  |        |
| Tsuv (280 - 380nm)        | 0.00%  |                  |        |
| Tsb (380 - 500nm)         | 13.23% |                  |        |

**Standard: EN ISO 12312-1:2013**

| Item                      | Value  | Requirement      | Result |
|---------------------------|--------|------------------|--------|
| Filter Category           | 3      |                  |        |
| Luminous Transmittance Tv | 11.79% | 8% - 18%         | PASS   |
| Incandescent Lights       |        |                  |        |
| Q, Red                    | 1.02   | >= 0.80          | PASS   |
| Q, Yellow                 | 0.95   | >= 0.60          | PASS   |
| Q, Green                  | 0.99   | >= 0.60          | PASS   |
| Q, Blue                   | 1.23   | >= 0.60          | PASS   |
| Tmin (475 - 650nm)        | 9.73%  | >= 2.36% (0.2Tv) | PASS   |
| Tsuva (315 - 380nm)       | 0.00%  | <= 5.90% (0.5Tv) | PASS   |
| Tsubv (280 - 315nm)       | 0.00%  | <= 1.0%          | PASS   |
| Tsuv (280 - 380nm)        | 0.00%  |                  |        |
| Tsb (380 - 500nm)         | 13.23% |                  |        |

**Standard: AS/NZS 1067:2003 (A1:2009)**

| Item                      | Value  | Requirement       | Result |
|---------------------------|--------|-------------------|--------|
| Lens Category             | 3      |                   |        |
| Luminous Transmittance Tv | 11.81% | 8% - 18%          | PASS   |
| Q, Red                    | 1.00   | >= 0.80           | PASS   |
| Q, Yellow                 | 0.95   | >= 0.80           | PASS   |
| Q, Green                  | 1.02   | >= 0.60           | PASS   |
| Q, Blue                   | 1.21   | >= 0.70           | PASS   |
| Tmean (280 - 315nm)       | 0.00%  | <= 0.59% (0.05Tv) | PASS   |
| Tmean (315 - 350nm)       | 0.00%  | <= 5.90% (0.5Tv)  | PASS   |
| Tmin (450 - 650nm)        | 9.73%  | >= 2.36% (0.2Tv)  | PASS   |
| Tsuva (315 - 400nm)       | 0.00%  | <= 5.90% (0.5Tv)  | PASS   |
| Tsubv (280 - 315nm)       | 0.00%  |                   |        |
| Tsuv (280 - 400nm)        | 0.00%  |                   |        |
| Tsb (400 - 500nm)         | 13.27% |                   |        |



**Spectrum Data:**

| nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     | nm  | %T     |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 280 | 0.000  | 290 | 0.000  | 300 | 0.000  | 310 | 0.000  | 320 | 0.000  | 330 | 0.000  | 340 | 0.000  | 350 | 0.000  | 360 | 0.000  | 370 | 0.000  | 380 | 0.000  |
| 390 | 0.000  | 400 | 0.000  | 410 | 3.362  | 420 | 10.143 | 430 | 12.464 | 440 | 11.444 | 450 | 10.705 | 460 | 16.084 | 470 | 19.160 | 480 | 17.493 | 490 | 16.432 |
| 500 | 16.419 | 510 | 14.283 | 520 | 12.205 | 530 | 11.775 | 540 | 11.443 | 550 | 10.232 | 560 | 9.772  | 570 | 10.634 | 580 | 12.320 | 590 | 10.428 | 600 | 10.602 |
| 610 | 11.166 | 620 | 10.854 | 630 | 10.403 | 640 | 10.819 | 650 | 13.243 | 660 | 18.090 | 670 | 23.136 | 680 | 27.168 | 690 | 29.718 | 700 | 31.269 | 710 | 32.242 |
| 720 | 33.225 | 730 | 34.670 | 740 | 37.584 | 750 | 31.759 | 760 | 38.899 | 770 | 48.433 | 780 | 58.248 |     |        |     |        |     |        |     |        |

|                                 |      |                       |                 |
|---------------------------------|------|-----------------------|-----------------|
| (1). ANSI Z80.3:2010            | PASS | Lens Primary Function | General Purpose |
| (2). EN 1836:2005 (A1:2007)     | PASS | Filter Category       | 3               |
| (3). EN ISO 12312-1:2013        | PASS | Filter Category       | 3               |
| (4). AS/NZS 1067:2003 (A1:2009) | PASS | Lens Category         | 3               |