

# Lens Test Report

Measured by Topcon TM-3

样品 TD011 POLARIZED RED LENS 检验员 eric  
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## Standard: BS EN ISO 12312-1:2013+A1:2015

| Item                                     | Value  | Requirement     | Result |
|------------------------------------------|--------|-----------------|--------|
| Luminous Transmittance(Tv)               | 13.37% |                 |        |
| Filter Category                          | 3      |                 |        |
| Tsuvb (280nm-315nm)                      | 0.01%  | % (1.0)         | PASS   |
| Tsuva (315nm-380nm)                      | 0.04%  | <6.69% (0.5Tv)  | PASS   |
| Tmin (475nm-650nm)                       | 0.30%  | >=2.67% (0.2Tv) | REF.   |
| ***** Claimed Value *****                |        |                 |        |
| Tsuvb (280nm-315nm)                      | 0.01%  |                 |        |
| Tsuva (315nm-380nm)                      | 0.04%  |                 |        |
| Tsuv (280nm-380nm)                       | 0.03%  |                 |        |
| Tsb (380nm-500nm)                        | 0.73%  | <=(95.00+0.5)%  | PASS   |
| ***** Recognition of signal lights ***** |        |                 |        |
| Red [Q] (INCT)                           | 3.92   | >=0.8           | PASS   |
| Yellow [Q] (INCT)                        | 1.91   | >=0.6           | PASS   |
| Green [Q] (INCT)                         | 0.28   | >=0.6           | REF.   |
| Blue [Q] (INCT)                          | 0.35   | >=0.6           | REF.   |

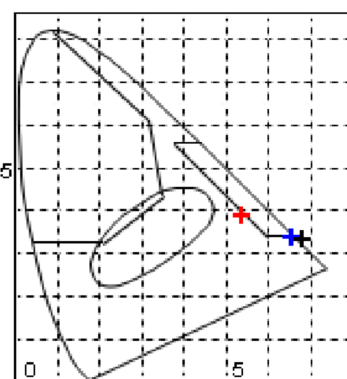
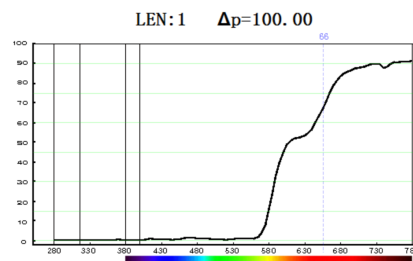
## Standard: ANSI Z80.3-2015

| Item                           | Value                             | Requirement     | Result |
|--------------------------------|-----------------------------------|-----------------|--------|
| High and prolonged exposure    | yes                               |                 |        |
| Luminous Transmittance(Tc)     | 13.60%                            |                 |        |
| Filter Category                | (General Purpose, medium to dark) |                 |        |
| ***** Tsig Vaules *****        |                                   |                 |        |
| RED                            | 59.07%                            | >=8%            | PASS   |
| YELLOW                         | 27.46%                            | >=6%            | PASS   |
| GREEN                          | 3.62%                             | >=6%            | REF.   |
| ***** Mean transmittance ***** |                                   |                 |        |
| Tsb (380nm-500nm)              | 0.73%                             |                 |        |
| UVB (280nm-315nm)              | 0.01%                             | <=1%            | PASS   |
| UVA (315nm-380nm)              | 0.06%                             | <=6.80% (0.5Tv) | PASS   |
| Tmin (475nm-650nm)             | 0.30%                             | >=2.72% (0.2Tv) | REF.   |
| ***** Color *****              |                                   |                 |        |
| DAY LIGHT                      | X:0.635 Y:0.344                   |                 | REF.   |
| YELLOW                         | X:0.663 Y:0.336                   |                 | REF.   |
| GREEN                          | X:0.522 Y:0.392                   |                 | REF.   |

## Standard: AS/NZS 1067.1:2016

| Item                                     | Value  | Requirement     | Result |
|------------------------------------------|--------|-----------------|--------|
| Luminous Transmittance(Tv)               | 13.37% |                 |        |
| Filter Category                          | 3      |                 |        |
| Tsuvb (280nm-315nm)                      | 0.01%  | % (1.0)         | PASS   |
| Tsuva (315nm-400nm)                      | 0.04%  | <6.69% (0.5Tv)  | PASS   |
| Tmin (475nm-650nm)                       | 0.30%  | >=2.67% (0.2Tv) | REF.   |
| ***** Claimed Value *****                |        |                 |        |
| Tsuvb (280nm-315nm)                      | 0.01%  | <=(10.00+0.5)%  | PASS   |
| Tsuva (315nm-400nm)                      | 0.04%  | <=(10.00+0.5)%  | PASS   |
| Tsuv (280nm-400nm)                       | 0.03%  | <=(10.00+0.5)%  | PASS   |
| Tsb (380nm-500nm)                        | 0.73%  | <=(95.00+0.5)%  | PASS   |
| ***** Recognition of signal lights ***** |        |                 |        |
| Red [Q] (INCT)                           | 3.92   | >=0.8           | PASS   |
| Yellow [Q] (INCT)                        | 1.91   | >=0.6           | PASS   |
| Green [Q] (INCT)                         | 0.28   | >=0.6           | REF.   |
| Blue [Q] (INCT)                          | 0.35   | >=0.7           | REF.   |

UV400 0.03%  
\*\*\* CIE 1976 L\*,a\*,b\* color space coordinates, illuminan D65 \*\*\*  
L\* = 100.00 a\* = 0.00 b\* = 160.81



| WL  | T    | WL  | T    | WL  | T     | WL  | T     |
|-----|------|-----|------|-----|-------|-----|-------|
| 280 | 0.02 | 410 | 0.58 | 540 | 0.86  | 670 | 78.63 |
| 285 | 0.01 | 415 | 0.72 | 545 | 0.87  | 675 | 81.17 |
| 290 | 0.02 | 420 | 0.66 | 550 | 0.80  | 680 | 83.31 |
| 295 | 0.02 | 425 | 0.63 | 555 | 0.78  | 685 | 84.82 |
| 300 | 0.02 | 430 | 0.64 | 560 | 1.03  | 690 | 85.89 |
| 305 | 0.02 | 435 | 0.55 | 565 | 1.79  | 695 | 86.69 |
| 310 | 0.00 | 440 | 0.37 | 570 | 3.73  | 700 | 87.26 |
| 315 | 0.00 | 445 | 0.28 | 575 | 7.84  | 705 | 87.87 |
| 320 | 0.00 | 450 | 0.32 | 580 | 15.03 | 710 | 88.28 |
| 325 | 0.00 | 455 | 0.58 | 585 | 24.00 | 715 | 88.70 |
| 330 | 0.00 | 460 | 1.06 | 590 | 32.69 | 720 | 89.15 |
| 335 | 0.00 | 465 | 1.40 | 595 | 39.64 | 725 | 89.52 |
| 340 | 0.00 | 470 | 1.39 | 600 | 45.05 | 730 | 89.87 |
| 345 | 0.00 | 475 | 1.21 | 605 | 48.52 | 735 | 89.72 |
| 350 | 0.00 | 480 | 1.01 | 610 | 50.52 | 740 | 87.88 |
| 355 | 0.00 | 485 | 0.86 | 615 | 51.65 | 745 | 88.28 |
| 360 | 0.00 | 490 | 0.78 | 620 | 52.14 | 750 | 89.75 |
| 365 | 0.02 | 495 | 0.71 | 625 | 52.64 | 755 | 90.36 |
| 370 | 0.32 | 500 | 0.63 | 630 | 53.33 | 760 | 90.69 |
| 375 | 0.27 | 505 | 0.50 | 635 | 54.60 | 765 | 90.88 |
| 380 | 0.21 | 510 | 0.38 | 640 | 56.58 | 770 | 90.81 |
| 385 | 0.13 | 515 | 0.31 | 645 | 59.53 | 775 | 90.92 |
| 390 | 0.11 | 520 | 0.30 | 650 | 63.26 | 780 | 91.33 |
| 395 | 0.09 | 525 | 0.49 | 655 | 66.85 |     |       |
| 400 | 0.09 | 530 | 0.61 | 660 | 70.35 |     |       |
| 405 | 0.23 | 535 | 0.76 | 665 | 75.32 |     |       |