

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1259330

Luminaire Tested: P3A05R509050DE010 E3D1MW

Issue Date: 1/30/2026

Test Information

Test Method: LM-79-2019
Report Number: P1259330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-32)
Test Lab: INNOVATION CENTER
Issue Date: 1/30/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R509050DE010 E3D1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3D1MW TRIM
Light Source: -
Ballast/Driver: -

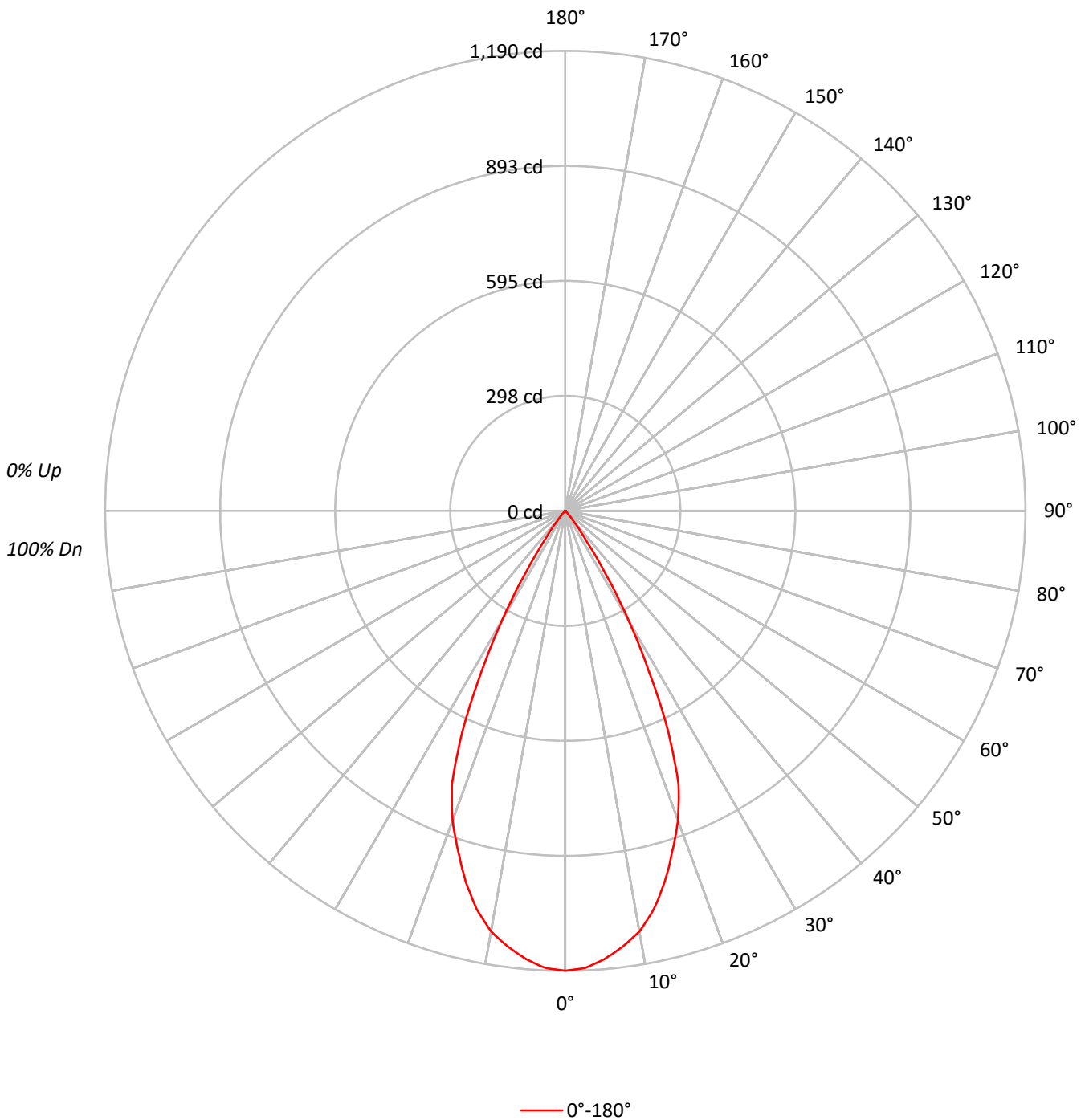
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 748.9 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1259330
CATALOG NUMBER: P3A05R509050DE010 E3D1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1259330
 CATALOG NUMBER: P3A05R509050DE010 E3D1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 95 | | | | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 90 | | | | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 88 | 86 | 85 | | | | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 87 | 84 | 82 | 80 | | | | 80 |
| 5 | 96 | 89 | 84 | 80 | 94 | 88 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 77 | 76 | | | | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 79 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 | | | | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | | | | 69 |
| 8 | 85 | 76 | 71 | 67 | 83 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 65 | | | | 65 |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 62 | | | | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 61 | 68 | 63 | 61 | 67 | 63 | 60 | 59 | | | | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 260856 |
| 5° | 256196 |
| 10° | 245976 |
| 15° | 225563 |
| 20° | 198911 |
| 25° | 152452 |
| 30° | 82899 |
| 35° | 26662 |
| 40° | 6269 |
| 45° | 837 |
| 50° | 751 |
| 55° | 841 |
| 60° | 702 |
| 65° | 830 |
| 70° | 705 |
| 75° | 932 |
| 80° | 631 |
| 85° | 1258 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 85°
 Luminance: 1258 cd/sqm



TEST NUMBER: P1259330
 CATALOG NUMBER: P3A05R509050DE010 E3D1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.2 | 14.6 |
| 10°-20° | 276.2 | 36.9 |
| 20°-30° | 276.6 | 36.9 |
| 30°-40° | 77.8 | 10.4 |
| 40°-50° | 4.7 | 0.6 |
| 50°-60° | 1.8 | 0.2 |
| 60°-70° | 1.4 | 0.2 |
| 70°-80° | 0.9 | 0.1 |
| 80°-90° | 0.3 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 662.0 | 88.4 |
| 0°-40° | 739.8 | 98.8 |
| 0°-60° | 746.3 | 99.6 |
| 0°-90° | 748.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 748.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1190 | |
| 5° | 1164 | 109 |
| 15° | 994 | 276 |
| 25° | 630 | 277 |
| 35° | 100 | 78 |
| 45° | 3 | 5 |
| 55° | 2 | 2 |
| 65° | 2 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P1259330
CATALOG NUMBER: P3A05R509050DE010 E3D1MW

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1189.6 |
| 2.5° | 1183.6 |
| 5° | 1163.9 |
| 7.5° | 1137.0 |
| 10° | 1104.7 |
| 12.5° | 1056.0 |
| 15° | 993.6 |
| 17.5° | 921.9 |
| 20° | 852.4 |
| 22.5° | 765.9 |
| 25° | 630.1 |
| 27.5° | 469.2 |
| 30° | 327.4 |
| 32.5° | 197.6 |
| 35° | 99.6 |
| 37.5° | 47.1 |
| 40° | 21.9 |
| 42.5° | 8.2 |
| 45° | 2.7 |
| 47.5° | 2.2 |
| 50° | 2.2 |
| 52.5° | 2.2 |
| 55° | 2.2 |
| 57.5° | 1.6 |
| 60° | 1.6 |
| 62.5° | 1.6 |
| 65° | 1.6 |
| 67.5° | 1.1 |
| 70° | 1.1 |
| 72.5° | 1.1 |
| 75° | 1.1 |
| 77.5° | 0.5 |
| 80° | 0.5 |
| 82.5° | 0.5 |
| 85° | 0.5 |
| 87.5° | 0.0 |
| 90° | 0.0 |

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-15

Test Date: 05/14/2025

Luminaire Tested: LD3A10R129050D010 E3D1H

Data in this report applies to families of products including LD3A

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-409-15
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 05/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: IRiS
 Catalog Number: **LD3A10R129050D010 E3D1H**
 Description: 3in Adjustabled LED luminaire with, R12 optic, 5000K CCT AND, 90CRI LEADS, E3D1H TRIM

Spectral Parameters

CCT (K): 5046
 CIE u': 0.2088
 CIE v': 0.4872
 Duv: 0.0031
 CIE x: 0.3444
 CIE y: 0.3571
 CIE z: 0.2985
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 569
 Purity: 10.48811
 Rf: 91.5
 Rg: 100.4

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 92.6 | | |
| R1: | 93.5 | R9: | 54.8 |
| R2: | 94.3 | R10: | 86.7 |
| R3: | 95.0 | R11: | 94.1 |
| R4: | 94.2 | R12: | 76.8 |
| R5: | 93.6 | R13: | 93.9 |
| R6: | 92.5 | R14: | 97.2 |
| R7: | 93.4 | R15: | 89.2 |
| R8: | 84.3 | | |



Test Conditions

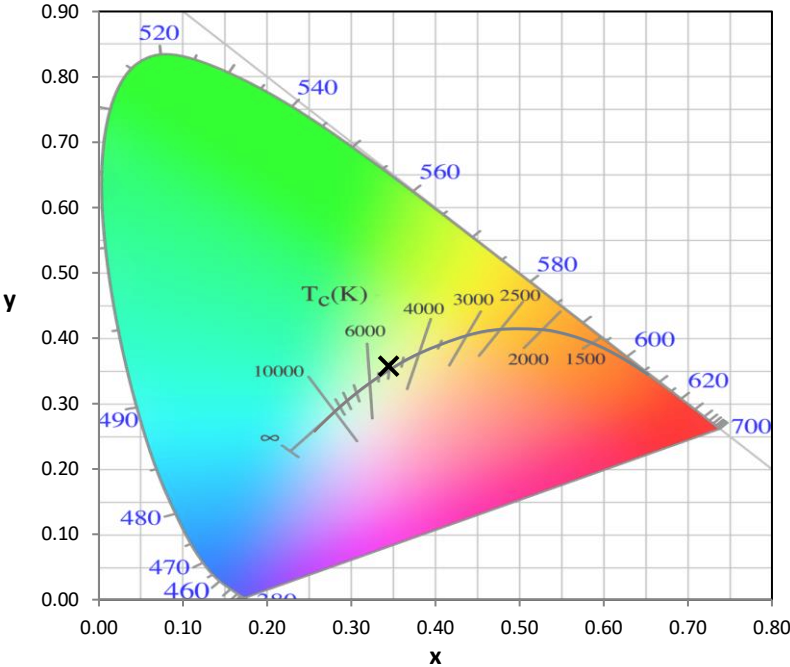
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.3

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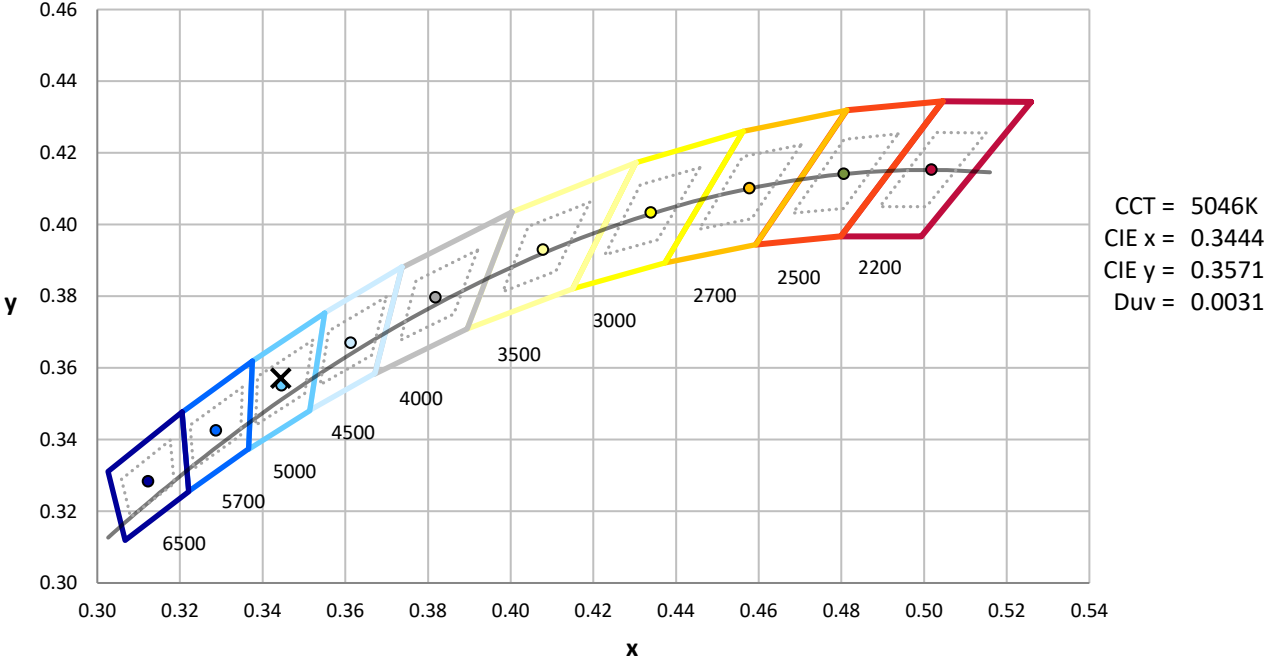
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

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CIE 1931 Chromaticity Diagram



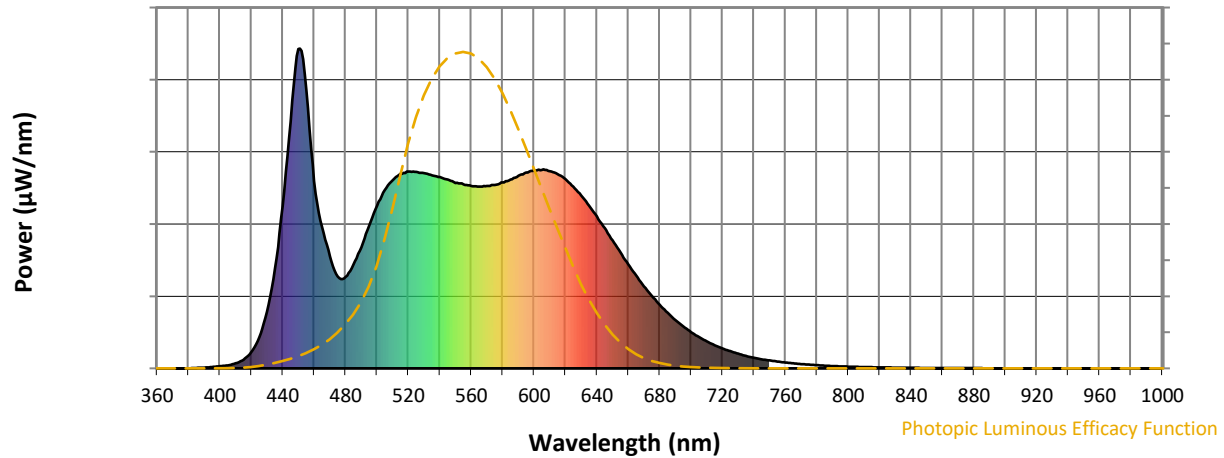
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

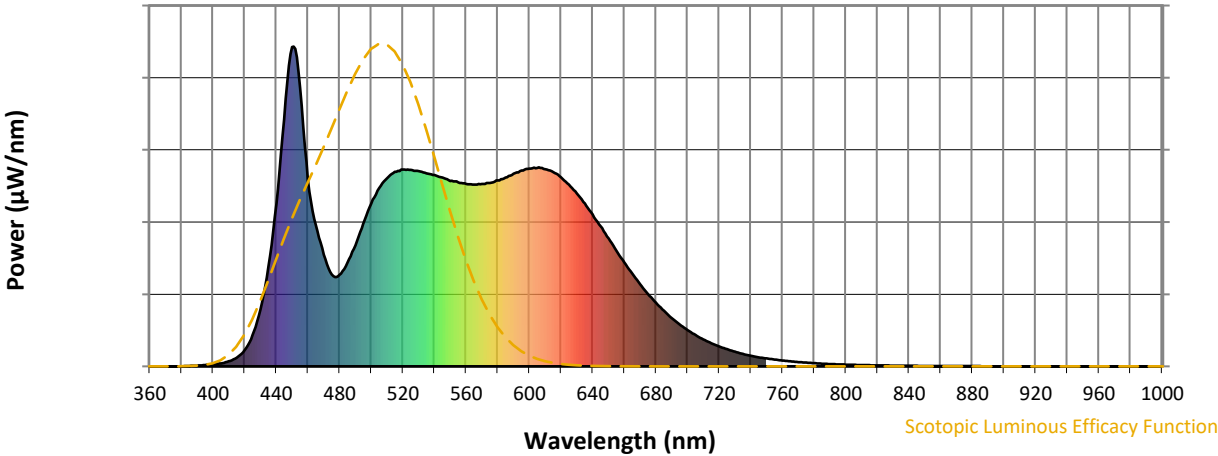


Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 379 | NR | 620 | 592 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 445 | NR | 625 | 568 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 509 | NR | 630 | 540 | NR | 760 | 18 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 557 | NR | 635 | 509 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 589 | NR | 640 | 476 | NR | 770 | 13 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 608 | NR | 645 | 439 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 616 | NR | 650 | 400 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 614 | NR | 655 | 362 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 611 | NR | 660 | 325 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 9 | NR | 535 | 604 | NR | 665 | 290 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 598 | NR | 670 | 257 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 27 | NR | 545 | 591 | NR | 675 | 227 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 580 | NR | 680 | 199 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 97 | NR | 555 | 575 | NR | 685 | 174 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 177 | NR | 560 | 570 | NR | 690 | 152 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 312 | NR | 565 | 569 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 570 | NR | 700 | 113 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 772 | NR | 575 | 573 | NR | 705 | 98 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 998 | NR | 580 | 581 | NR | 710 | 84 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 871 | NR | 585 | 590 | NR | 715 | 73 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 586 | NR | 590 | 602 | NR | 720 | 63 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 443 | NR | 595 | 612 | NR | 725 | 54 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 350 | NR | 600 | 618 | NR | 730 | 46 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 288 | NR | 605 | 620 | NR | 735 | 39 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 286 | NR | 610 | 616 | NR | 740 | 33 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 608 | NR | 745 | 28 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2504-409-15

Scotopic Flux vs. Wavelength



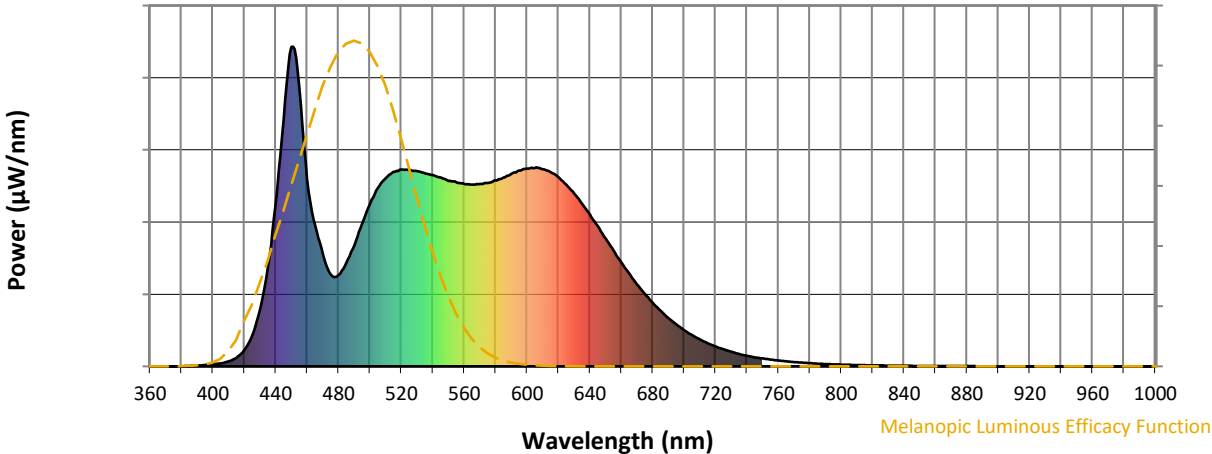
Scotopic Lumens: NR

S/P: 2.07

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 379 | NR | 620 | 592 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 445 | NR | 625 | 568 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 509 | NR | 630 | 540 | NR | 760 | 18 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 557 | NR | 635 | 509 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 589 | NR | 640 | 476 | NR | 770 | 13 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 608 | NR | 645 | 439 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 616 | NR | 650 | 400 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 614 | NR | 655 | 362 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 611 | NR | 660 | 325 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 9 | NR | 535 | 604 | NR | 665 | 290 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 598 | NR | 670 | 257 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 27 | NR | 545 | 591 | NR | 675 | 227 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 580 | NR | 680 | 199 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 97 | NR | 555 | 575 | NR | 685 | 174 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 177 | NR | 560 | 570 | NR | 690 | 152 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 312 | NR | 565 | 569 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 570 | NR | 700 | 113 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 772 | NR | 575 | 573 | NR | 705 | 98 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 998 | NR | 580 | 581 | NR | 710 | 84 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 871 | NR | 585 | 590 | NR | 715 | 73 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 586 | NR | 590 | 602 | NR | 720 | 63 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 443 | NR | 595 | 612 | NR | 725 | 54 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 350 | NR | 600 | 618 | NR | 730 | 46 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 288 | NR | 605 | 620 | NR | 735 | 39 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 286 | NR | 610 | 616 | NR | 740 | 33 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 608 | NR | 745 | 28 | NR | 875 | 1 | NR | | | |

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.43

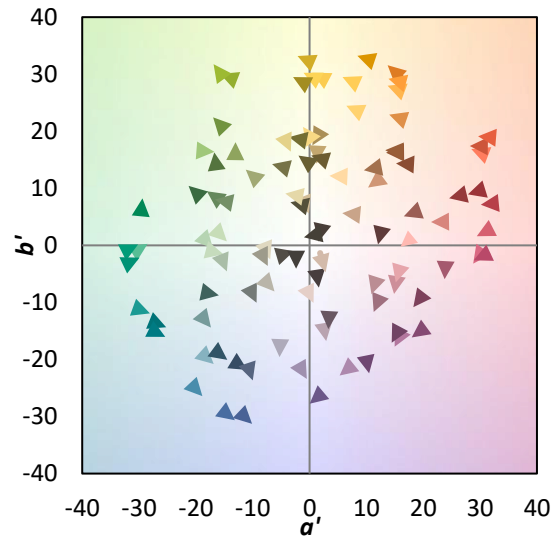
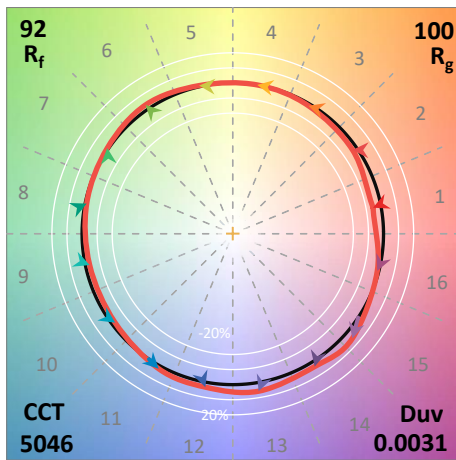
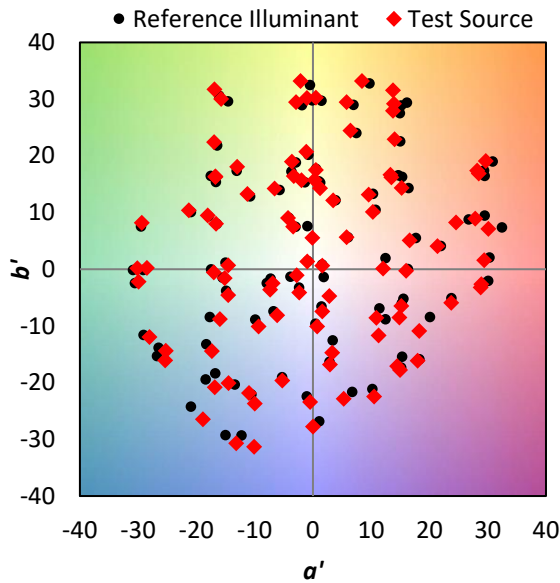
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 379 | NR | 620 | 592 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 445 | NR | 625 | 568 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 509 | NR | 630 | 540 | NR | 760 | 18 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 557 | NR | 635 | 509 | NR | 765 | 16 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 589 | NR | 640 | 476 | NR | 770 | 13 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 608 | NR | 645 | 439 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 616 | NR | 650 | 400 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 614 | NR | 655 | 362 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 611 | NR | 660 | 325 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 9 | NR | 535 | 604 | NR | 665 | 290 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 598 | NR | 670 | 257 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 27 | NR | 545 | 591 | NR | 675 | 227 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 580 | NR | 680 | 199 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 97 | NR | 555 | 575 | NR | 685 | 174 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 177 | NR | 560 | 570 | NR | 690 | 152 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 312 | NR | 565 | 569 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 570 | NR | 700 | 113 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 772 | NR | 575 | 573 | NR | 705 | 98 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 998 | NR | 580 | 581 | NR | 710 | 84 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 871 | NR | 585 | 590 | NR | 715 | 73 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 586 | NR | 590 | 602 | NR | 720 | 63 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 443 | NR | 595 | 612 | NR | 725 | 54 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 350 | NR | 600 | 618 | NR | 730 | 46 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 288 | NR | 605 | 620 | NR | 735 | 39 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 286 | NR | 610 | 616 | NR | 740 | 33 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 608 | NR | 745 | 28 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 91.5$
 $R_g = 100.4$
 CIE $R_a = 92.6$
 $R_9 = 54.8$

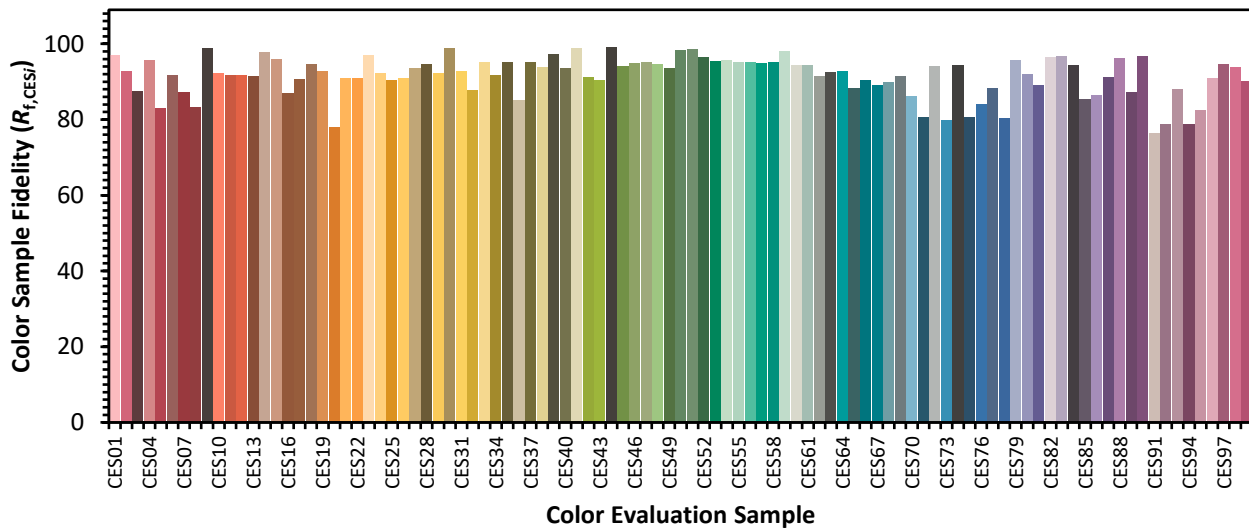


Color Vector Graphics

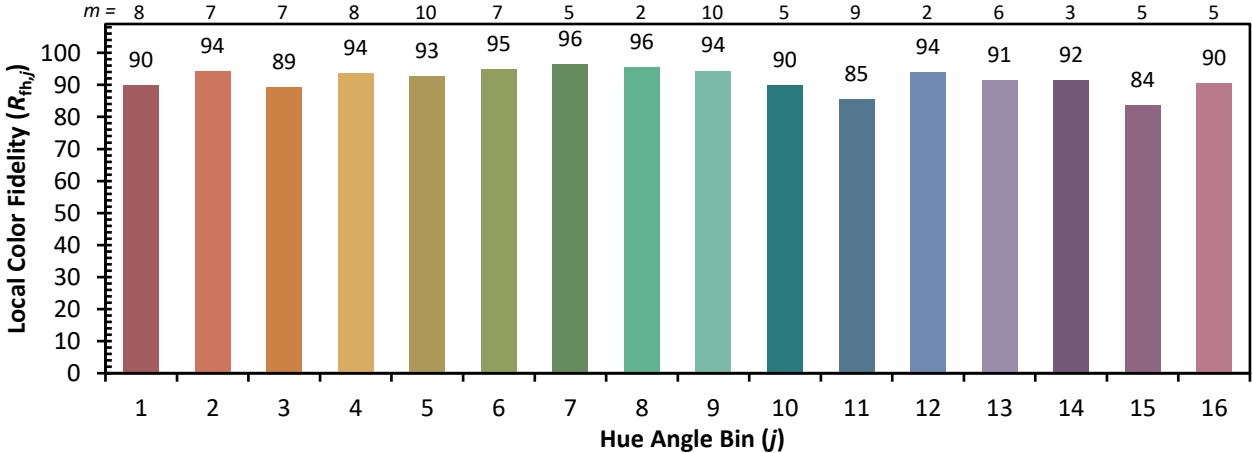


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 91 | CES51 = 99 | CES76 = 84 |
| CES02 = 60 | CES27 = 94 | CES52 = 96 | CES77 = 88 |
| CES03 = 31 | CES28 = 95 | CES53 = 95 | CES78 = 80 |
| CES04 = 68 | CES29 = 92 | CES54 = 96 | CES79 = 96 |
| CES05 = 47 | CES30 = 99 | CES55 = 95 | CES80 = 92 |
| CES06 = 50 | CES31 = 93 | CES56 = 95 | CES81 = 89 |
| CES07 = 40 | CES32 = 88 | CES57 = 95 | CES82 = 96 |
| CES08 = 40 | CES33 = 95 | CES58 = 95 | CES83 = 97 |
| CES09 = 29 | CES34 = 92 | CES59 = 98 | CES84 = 94 |
| CES10 = 73 | CES35 = 95 | CES60 = 94 | CES85 = 85 |
| CES11 = 56 | CES36 = 85 | CES61 = 94 | CES86 = 87 |
| CES12 = 62 | CES37 = 95 | CES62 = 91 | CES87 = 91 |
| CES13 = 42 | CES38 = 94 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 97 | CES64 = 93 | CES89 = 87 |
| CES15 = 71 | CES40 = 94 | CES65 = 88 | CES90 = 97 |
| CES16 = 46 | CES41 = 99 | CES66 = 90 | CES91 = 76 |
| CES17 = 48 | CES42 = 91 | CES67 = 89 | CES92 = 79 |
| CES18 = 56 | CES43 = 90 | CES68 = 90 | CES93 = 88 |
| CES19 = 70 | CES44 = 99 | CES69 = 91 | CES94 = 79 |
| CES20 = 65 | CES45 = 94 | CES70 = 86 | CES95 = 83 |
| CES21 = 84 | CES46 = 95 | CES71 = 81 | CES96 = 91 |
| CES22 = 77 | CES47 = 95 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 95 | CES73 = 80 | CES98 = 94 |
| CES24 = 89 | CES49 = 94 | CES74 = 94 | CES99 = 90 |
| CES25 = 70 | CES50 = 98 | CES75 = 81 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)