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: P1251068

Luminaire Tested: P3A05R129030DE010 E3DLD1WMH

Issue Date: 1/30/2026

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1251068 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-2) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/30/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | IRiS |
| Catalog Number: | P3A05R129030DE010 E3DLD1WMH |
| Description: | 3in Adjustable LED luminaire with, R12 optic, 3000K CCT AND, 90CRI , E3DLD1WMH TRIM |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 378.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 49.7 lumens/watt |
| Spacing Criteria (0/90/45): | 0.76 / 0.76 / 0.82 |
| Luminous Opening: | Circular (Dia: 0.25' x H: 0') |
| CIE Type: | Direct |

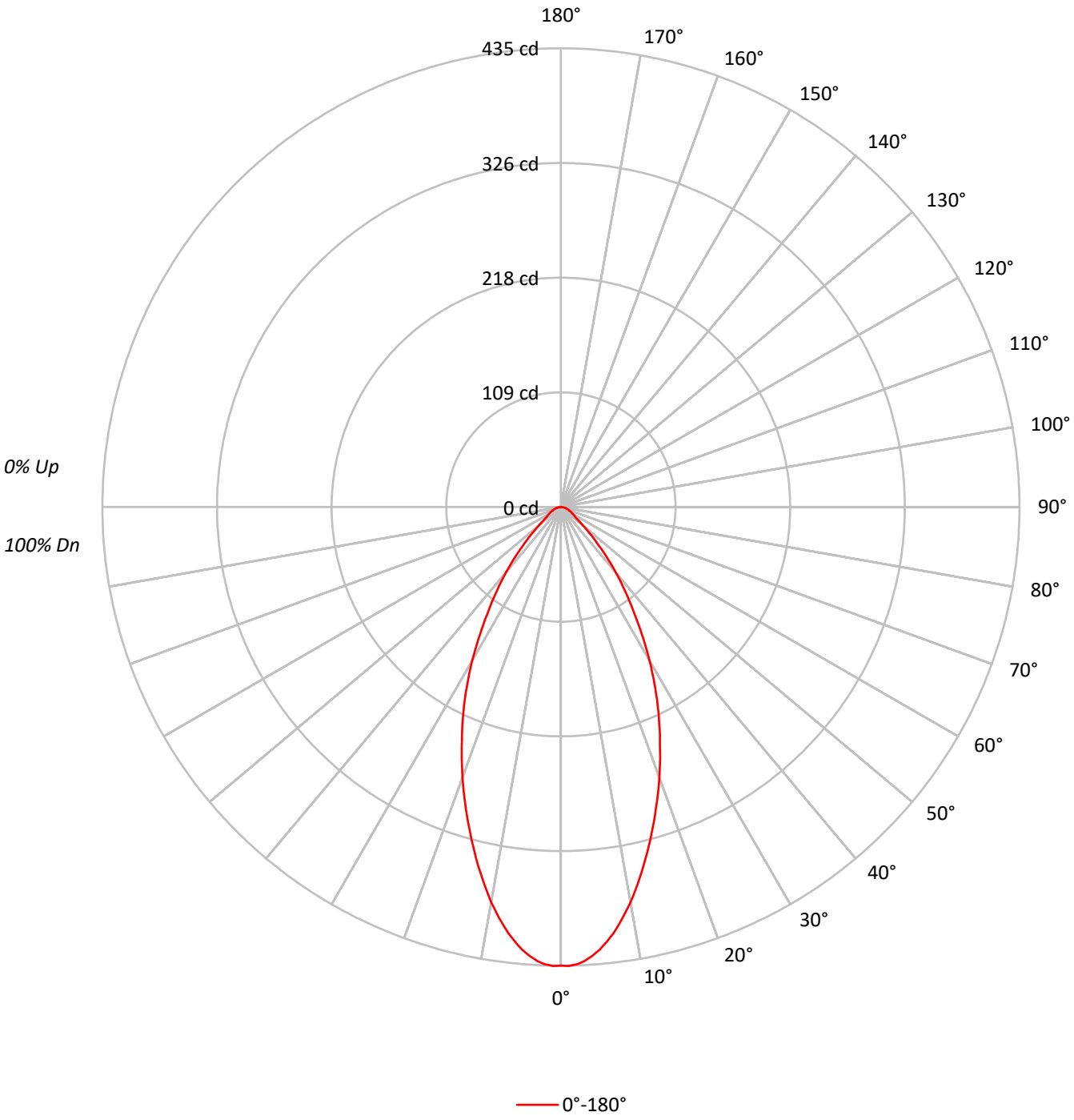
| | |
|---|---|
| Input Watts (W): | 7.6 |
| Input Voltage (V): | NR |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 24 FT |

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

Scaled Data Report

TEST NUMBER: P1251068
CATALOG NUMBER: P3A05R129030DE010 E3DLD1WMH

## Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1251068
CATALOG NUMBER: P3A05R129030DE010 E3DLD1WMH

## 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 91 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 95 | 91 | 95 | 92 | 89 | 92 | 90 | 87 | 90 | 87 | 85 | 83 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 82 | 79 | 84 | 81 | 78 | 76 |
| 4 | 94 | 86 | 80 | 75 | 92 | 85 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 70 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 67 | 74 | 69 | 66 | 65 |
| 6 | 84 | 74 | 68 | 63 | 83 | 73 | 67 | 63 | 72 | 66 | 62 | 70 | 66 | 62 | 69 | 65 | 61 | 60 |
| 7 | 80 | 69 | 63 | 58 | 78 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 65 | 61 | 57 | 56 |
| 8 | 76 | 65 | 59 | 54 | 74 | 65 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 53 | 52 |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 49 |
| 10 | 68 | 58 | 52 | 48 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|---|---|
| 0° | 95343 |
| 5° | 92758 |
| 10° | 84768 |
| 15° | 74257 |
| 20° | 63706 |
| 25° | 53180 |
| 30° | 42564 |
| 35° | 31909 |
| 40° | 23158 |
| 45° | 15133 |
| 50° | 9484 |
| 55° | 6423 |
| 60° | 5657 |
| 65° | 5241 |
| 70° | 4937 |
| 75° | 4490 |
| 80° | 4293 |
| 85° | 3522 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15133 cd/sqm

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Scaled Data Report

TEST NUMBER: P1251068
CATALOG NUMBER: P3A05R129030DE010 E3DLD1WMH

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 38.9 | 10.3 |
| 10°-20° | 91.1 | 24.1 |
| 20°-30° | 100.4 | 26.6 |
| 30°-40° | 75.2 | 19.9 |
| 40°-50° | 39.0 | 10.3 |
| 50°-60° | 16.2 | 4.3 |
| 60°-70° | 10.0 | 2.6 |
| 70°-80° | 5.6 | 1.5 |
| 80°-90° | 1.6 | 0.4 |
| 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° | 230.4 | 61.0 |
| 0°-40° | 305.6 | 80.8 |
| 0°-60° | 360.7 | 95.4 |
| 0°-90° | 378.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 378.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | Flux |
|---|---|---|
| 0° | 435 | |
| 5° | 421 | 39 |
| 15° | 327 | 91 |
| 25° | 220 | 100 |
| 35° | 119 | 75 |
| 45° | 49 | 39 |
| 55° | 17 | 16 |
| 65° | 10 | 10 |
| 75° | 5 | 6 |
| 85° | 1 | 2 |
| 90° | 0 | |

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Scaled Data Report

TEST NUMBER: P1251068
CATALOG NUMBER: P3A05R129030DE010 E3DLD1WMH

**CANDELA DISTRIBUTION (FULL):**

| | 0° |
|---|---|
| 0° | 434.8 |
| 1° | 435.3 |
| 2° | 433.9 |
| 3° | 431.0 |
| 4° | 426.7 |
| 5° | 421.4 |
| 6° | 414.7 |
| 7° | 407.5 |
| 8° | 398.9 |
| 9° | 389.8 |
| 10° | 380.7 |
| 12.5° | 354.4 |
| 15° | 327.1 |
| 17.5° | 299.8 |
| 20° | 273.0 |
| 22.5° | 245.7 |
| 25° | 219.8 |
| 27.5° | 193.9 |
| 30° | 168.1 |
| 32.5° | 142.7 |
| 35° | 119.2 |
| 37.5° | 99.1 |
| 40° | 80.9 |
| 42.5° | 64.2 |
| 45° | 48.8 |
| 47.5° | 36.9 |
| 50° | 27.8 |
| 52.5° | 20.6 |
| 55° | 16.8 |
| 57.5° | 14.8 |
| 60° | 12.9 |
| 62.5° | 11.5 |
| 65° | 10.1 |
| 67.5° | 8.6 |
| 70° | 7.7 |
| 72.5° | 6.2 |
| 75° | 5.3 |
| 77.5° | 4.3 |
| 80° | 3.4 |
| 82.5° | 2.4 |
| 85° | 1.4 |
| 87.5° | 0.5 |
| 90° | 0.0 |

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

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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-28

Test Date: 05/16/2025

Luminaire Tested: LD3A09R159030D010 E3D1H

Data in this report applies to families of products including LD3A

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

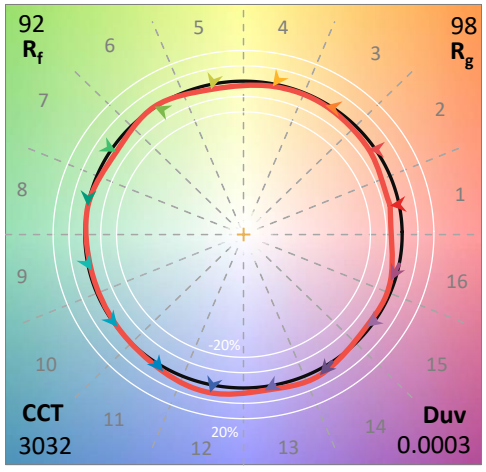
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2504-409-28 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 01/06/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | IRiS |
| Catalog Number: | **LD3A09R159030D010 E3D1H** |
| Description: | 3in Adjustabled LED luminaire with, R15 optic, 3000K CCT AND, 90CRI LEDS, E3D1H TRIM |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3032 | CRI (Ra): | 92.8 | | |
| CIE u': | 0.2493 | R1: | 93.5 | R9: | 51.3 |
| CIE v': | 0.5211 | R2: | 97.3 | R10: | 93.2 |
| Duv: | 0.0003 | R3: | 98.7 | R11: | 96.4 |
| CIE x: | 0.4351 | R4: | 93.9 | R12: | 82.1 |
| CIE y: | 0.4042 | R5: | 93.6 | R13: | 94.8 |
| CIE z: | 0.1608 | R6: | 96.7 | R14: | 99.6 |
| Peak Wavelength (nm): | 615 | R7: | 90.3 | R15: | 87.6 |
| Dominant Wavelength (nm): | 582 | R8: | 78.4 | | |
| Purity: | 51.90029 | | | | |

| | |
|---|---|
| Rf: | 91.6 |
| Rg: | 98.2 |




## Test Conditions

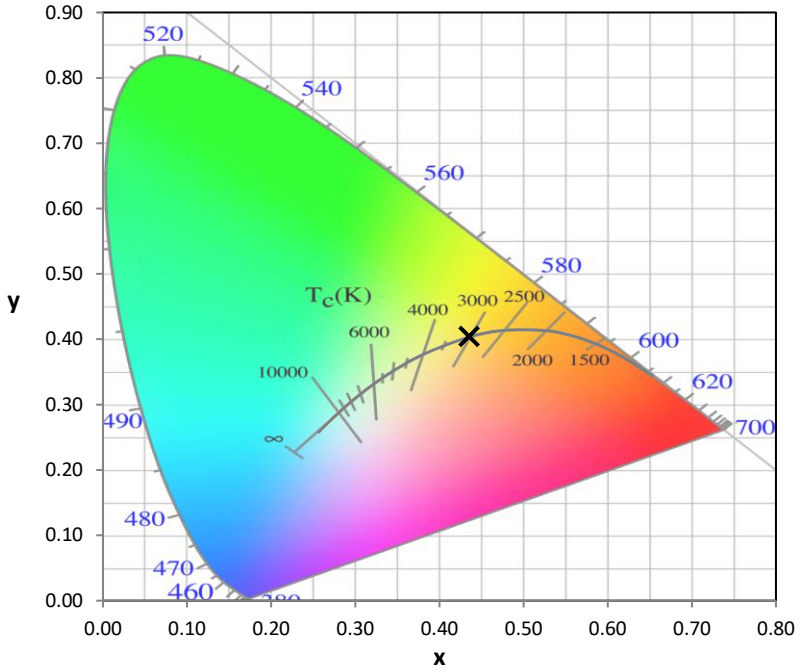
| | |
|---|---|
| Stabilization Time: | 40M |
| Operation Time: | 1H 40M |
| Sphere Temperature (°C): | 25.1 |

REPORT NUMBER: SP1-2504-409-28

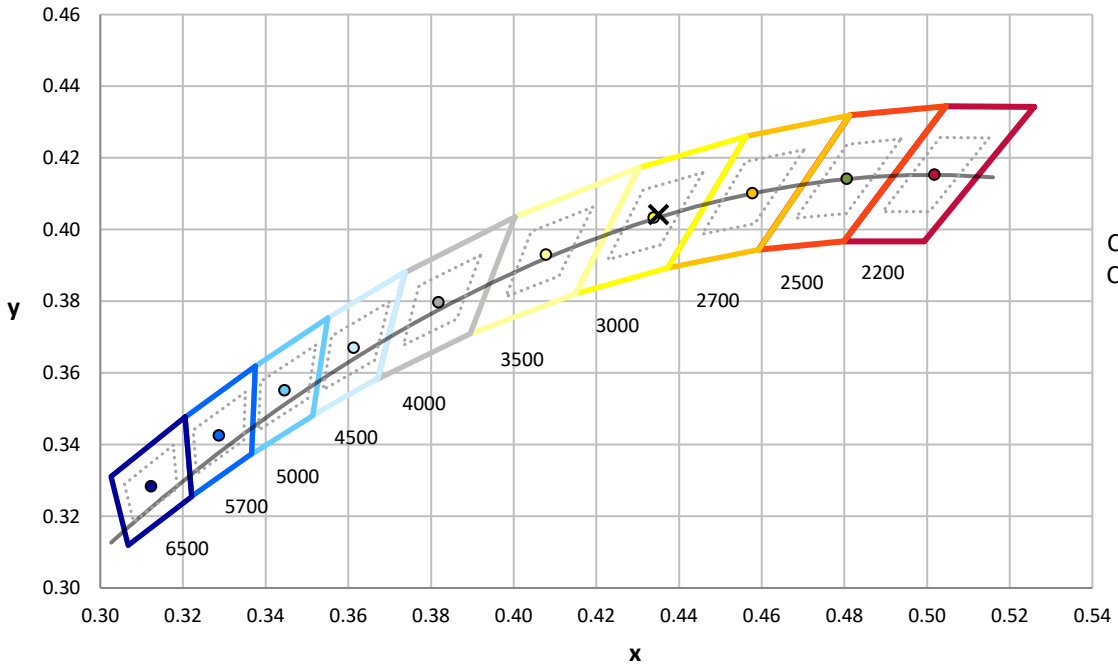
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | XITRON INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | CHROMA 61603 IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | AGILENT E3634A IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | ONSET IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | ONSET IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2504-409-28

## CIE 1931 Chromaticity Diagram




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

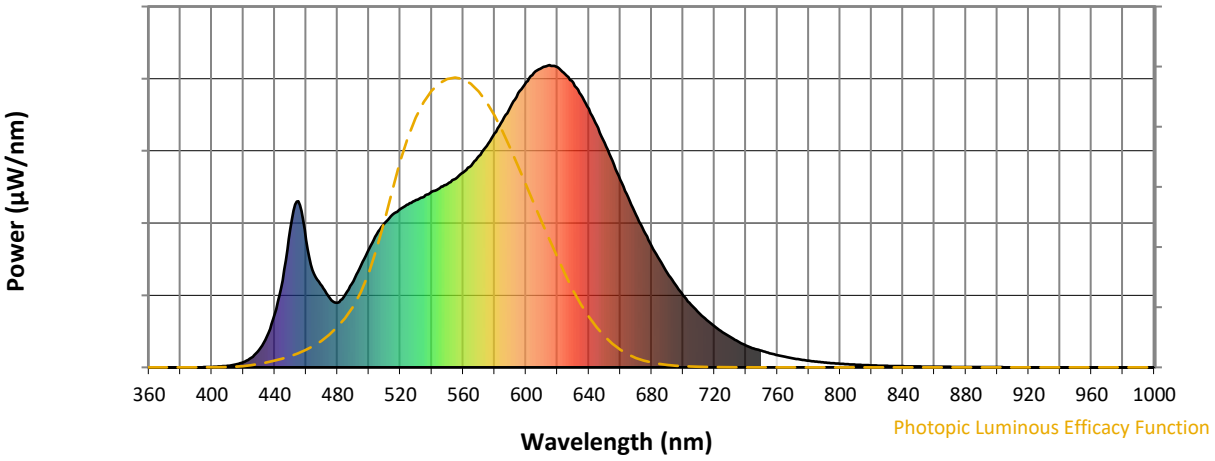



CCT = 3032K
CIE x = 0.4351
CIE y = 0.4042
Duv = 0.0003

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2504-409-28

## Photopic Flux vs. Wavelength

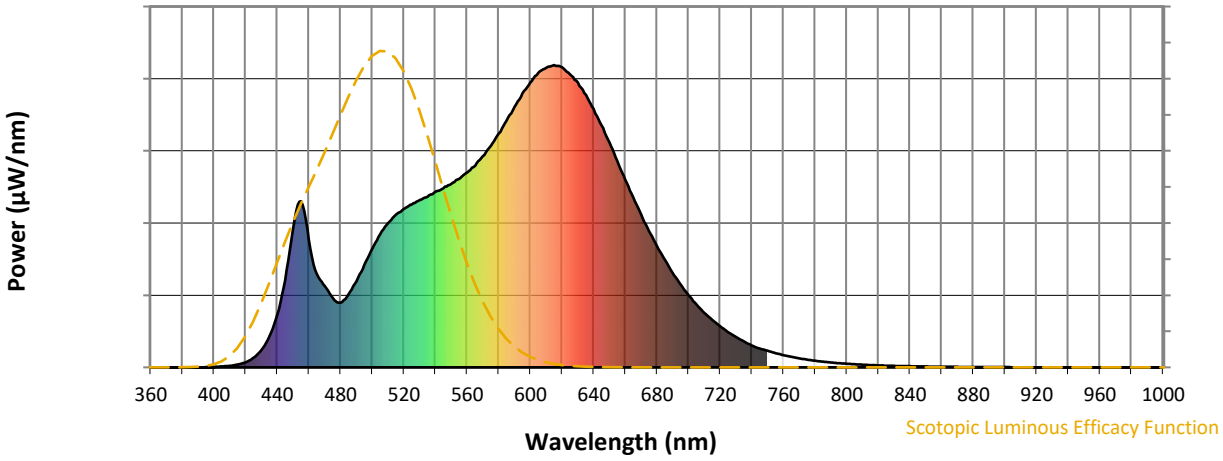



## Photopic Lumens: NR

| 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 | 285 | NR | 620 | 993 | NR | 750 | 55 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 338 | NR | 625 | 970 | NR | 755 | 47 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 392 | NR | 630 | 942 | NR | 760 | 41 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 440 | NR | 635 | 902 | NR | 765 | 35 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 478 | NR | 640 | 855 | NR | 770 | 30 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 505 | NR | 645 | 800 | NR | 775 | 26 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 743 | NR | 780 | 22 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 539 | NR | 655 | 682 | NR | 785 | 19 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 554 | NR | 660 | 621 | NR | 790 | 16 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 565 | NR | 665 | 563 | NR | 795 | 14 | NR | 925 | 1 | NR |
| 410 | 5 | NR | 540 | 581 | NR | 670 | 505 | NR | 800 | 12 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 593 | NR | 675 | 451 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 17 | NR | 550 | 606 | NR | 680 | 401 | NR | 810 | 9 | NR | 940 | 0 | NR |
| 425 | 32 | NR | 555 | 623 | NR | 685 | 356 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 57 | NR | 560 | 645 | NR | 690 | 313 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 103 | NR | 565 | 667 | NR | 695 | 274 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 175 | NR | 570 | 699 | NR | 700 | 238 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 287 | NR | 575 | 732 | NR | 705 | 208 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 460 | NR | 580 | 774 | NR | 710 | 180 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 550 | NR | 585 | 816 | NR | 715 | 157 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 423 | NR | 590 | 862 | NR | 720 | 136 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 907 | NR | 725 | 117 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 269 | NR | 600 | 943 | NR | 730 | 100 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 229 | NR | 605 | 974 | NR | 735 | 86 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 214 | NR | 610 | 991 | NR | 740 | 72 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 241 | NR | 615 | 1000 | NR | 745 | 62 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2504-409-28

## Scotopic Flux vs. Wavelength

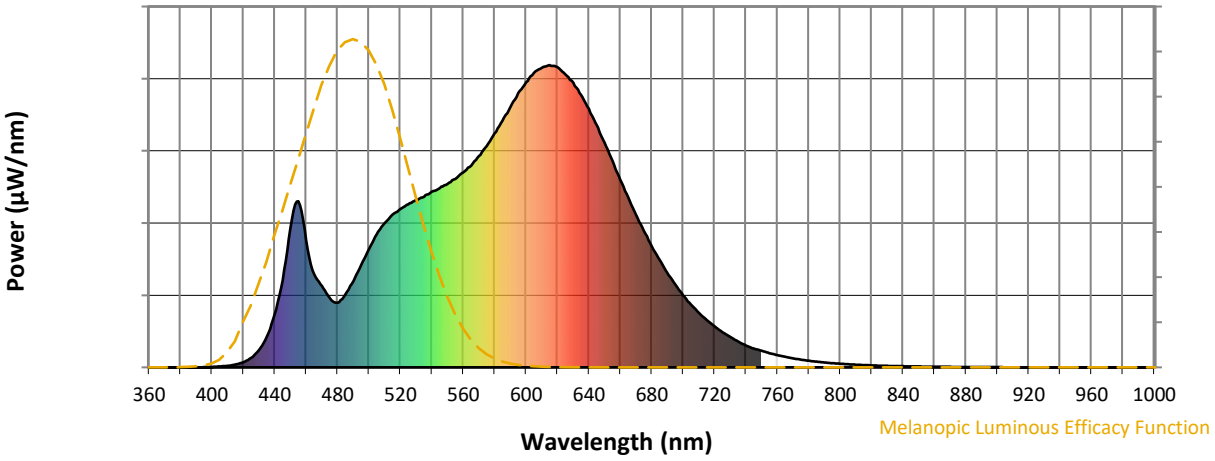



**Scotopic Lumens: NR** **S/P: 1.44**

| 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 | 285 | NR | 620 | 993 | NR | 750 | 55 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 338 | NR | 625 | 970 | NR | 755 | 47 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 392 | NR | 630 | 942 | NR | 760 | 41 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 440 | NR | 635 | 902 | NR | 765 | 35 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 478 | NR | 640 | 855 | NR | 770 | 30 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 505 | NR | 645 | 800 | NR | 775 | 26 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 743 | NR | 780 | 22 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 539 | NR | 655 | 682 | NR | 785 | 19 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 554 | NR | 660 | 621 | NR | 790 | 16 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 565 | NR | 665 | 563 | NR | 795 | 14 | NR | 925 | 1 | NR |
| 410 | 5 | NR | 540 | 581 | NR | 670 | 505 | NR | 800 | 12 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 593 | NR | 675 | 451 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 17 | NR | 550 | 606 | NR | 680 | 401 | NR | 810 | 9 | NR | 940 | 0 | NR |
| 425 | 32 | NR | 555 | 623 | NR | 685 | 356 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 57 | NR | 560 | 645 | NR | 690 | 313 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 103 | NR | 565 | 667 | NR | 695 | 274 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 175 | NR | 570 | 699 | NR | 700 | 238 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 287 | NR | 575 | 732 | NR | 705 | 208 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 460 | NR | 580 | 774 | NR | 710 | 180 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 550 | NR | 585 | 816 | NR | 715 | 157 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 423 | NR | 590 | 862 | NR | 720 | 136 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 907 | NR | 725 | 117 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 269 | NR | 600 | 943 | NR | 730 | 100 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 229 | NR | 605 | 974 | NR | 735 | 86 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 214 | NR | 610 | 991 | NR | 740 | 72 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 241 | NR | 615 | 1000 | NR | 745 | 62 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2504-409-28

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.84**

| 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 | 285 | NR | 620 | 993 | NR | 750 | 55 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 338 | NR | 625 | 970 | NR | 755 | 47 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 392 | NR | 630 | 942 | NR | 760 | 41 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 440 | NR | 635 | 902 | NR | 765 | 35 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 478 | NR | 640 | 855 | NR | 770 | 30 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 505 | NR | 645 | 800 | NR | 775 | 26 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 743 | NR | 780 | 22 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 539 | NR | 655 | 682 | NR | 785 | 19 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 554 | NR | 660 | 621 | NR | 790 | 16 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 565 | NR | 665 | 563 | NR | 795 | 14 | NR | 925 | 1 | NR |
| 410 | 5 | NR | 540 | 581 | NR | 670 | 505 | NR | 800 | 12 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 593 | NR | 675 | 451 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 17 | NR | 550 | 606 | NR | 680 | 401 | NR | 810 | 9 | NR | 940 | 0 | NR |
| 425 | 32 | NR | 555 | 623 | NR | 685 | 356 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 57 | NR | 560 | 645 | NR | 690 | 313 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 103 | NR | 565 | 667 | NR | 695 | 274 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 175 | NR | 570 | 699 | NR | 700 | 238 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 287 | NR | 575 | 732 | NR | 705 | 208 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 460 | NR | 580 | 774 | NR | 710 | 180 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 550 | NR | 585 | 816 | NR | 715 | 157 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 423 | NR | 590 | 862 | NR | 720 | 136 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 907 | NR | 725 | 117 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 269 | NR | 600 | 943 | NR | 730 | 100 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 229 | NR | 605 | 974 | NR | 735 | 86 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 214 | NR | 610 | 991 | NR | 740 | 72 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 241 | NR | 615 | 1000 | NR | 745 | 62 | NR | 875 | 1 | NR | | | |

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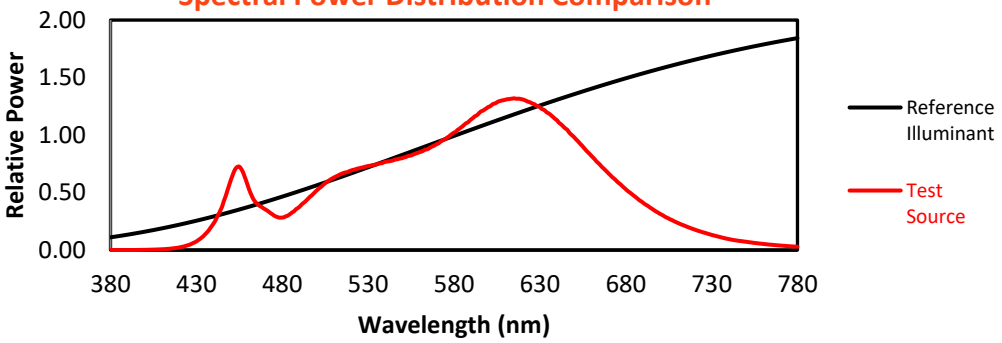
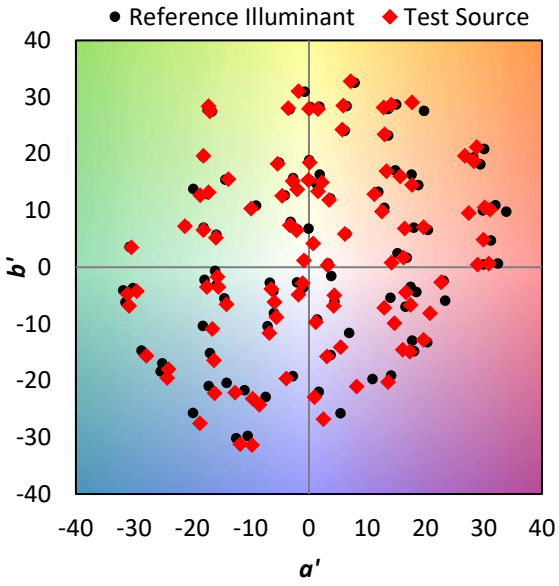
## Summary

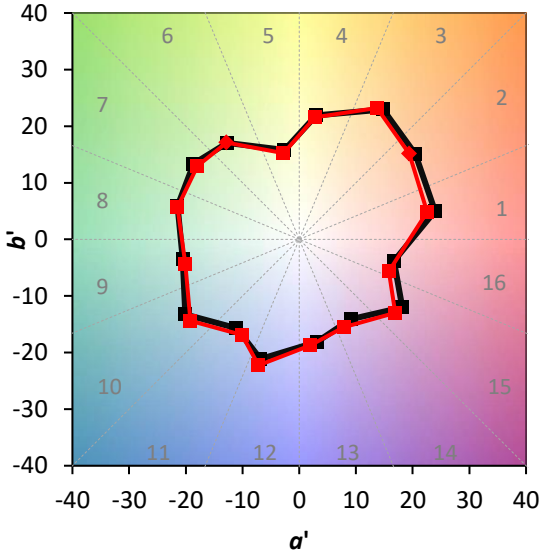
$R_f$ = 91.6
$R_g$ = 98.2
CIE $R_a$ = 92.8
$R_9$ = 51.3

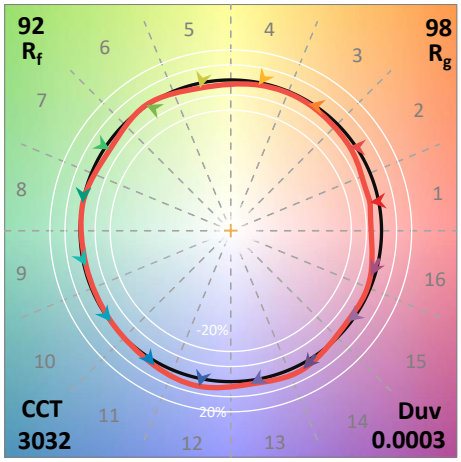
## Spectral Power Distribution Comparison

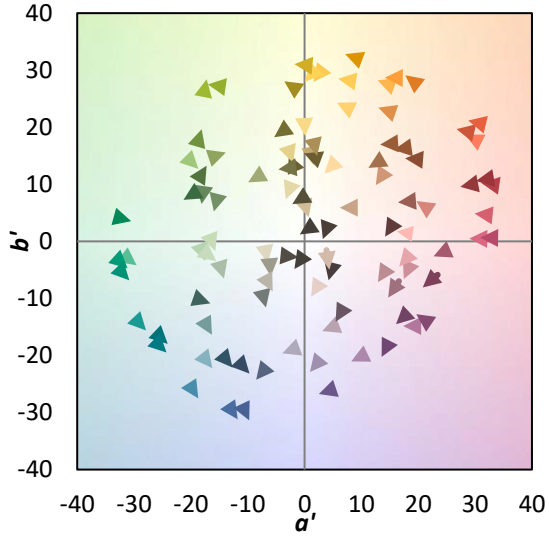



## Color Vector Graphics



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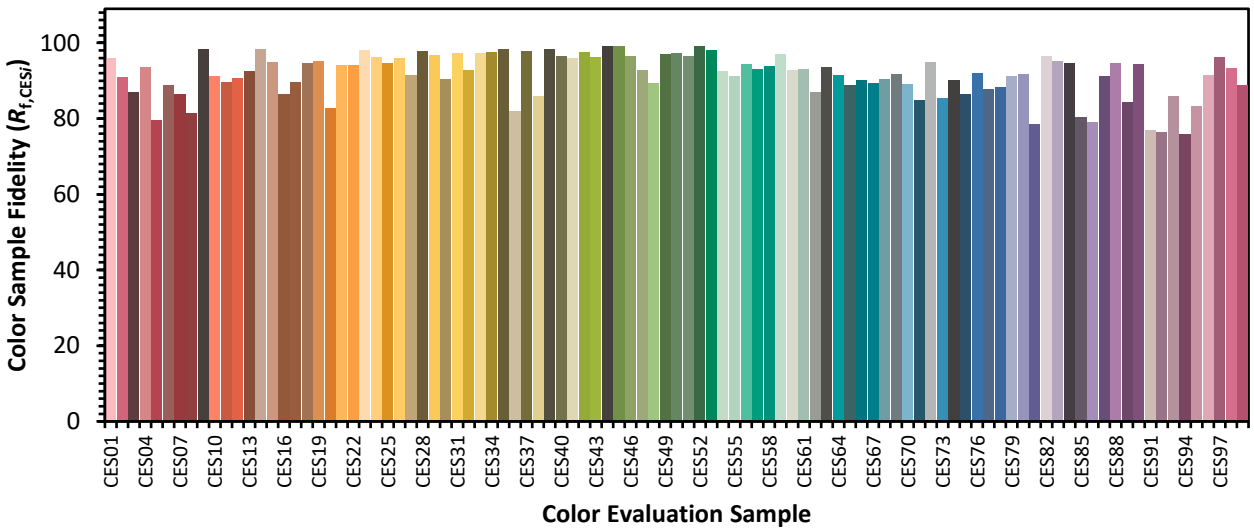
**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 96 | CES51 = 97 | CES76 = 92 |
| CES02 = 63 | CES27 = 91 | CES52 = 99 | CES77 = 88 |
| CES03 = 32 | CES28 = 98 | CES53 = 98 | CES78 = 88 |
| CES04 = 70 | CES29 = 97 | CES54 = 93 | CES79 = 91 |
| CES05 = 50 | CES30 = 90 | CES55 = 91 | CES80 = 92 |
| CES06 = 51 | CES31 = 97 | CES56 = 94 | CES81 = 78 |
| CES07 = 43 | CES32 = 93 | CES57 = 93 | CES82 = 96 |
| CES08 = 42 | CES33 = 97 | CES58 = 94 | CES83 = 95 |
| CES09 = 29 | CES34 = 97 | CES59 = 97 | CES84 = 95 |
| CES10 = 76 | CES35 = 98 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 82 | CES61 = 93 | CES86 = 79 |
| CES12 = 65 | CES37 = 98 | CES62 = 87 | CES87 = 91 |
| CES13 = 44 | CES38 = 86 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 98 | CES64 = 92 | CES89 = 84 |
| CES15 = 72 | CES40 = 97 | CES65 = 89 | CES90 = 94 |
| CES16 = 48 | CES41 = 96 | CES66 = 90 | CES91 = 77 |
| CES17 = 50 | CES42 = 97 | CES67 = 89 | CES92 = 76 |
| CES18 = 57 | CES43 = 96 | CES68 = 91 | CES93 = 86 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 76 |
| CES20 = 67 | CES45 = 99 | CES70 = 89 | CES95 = 83 |
| CES21 = 86 | CES46 = 96 | CES71 = 85 | CES96 = 91 |
| CES22 = 79 | CES47 = 93 | CES72 = 95 | CES97 = 96 |
| CES23 = 92 | CES48 = 89 | CES73 = 85 | CES98 = 93 |
| CES24 = 90 | CES49 = 97 | CES74 = 90 | CES99 = 89 |
| CES25 = 72 | CES50 = 97 | CES75 = 86 | |



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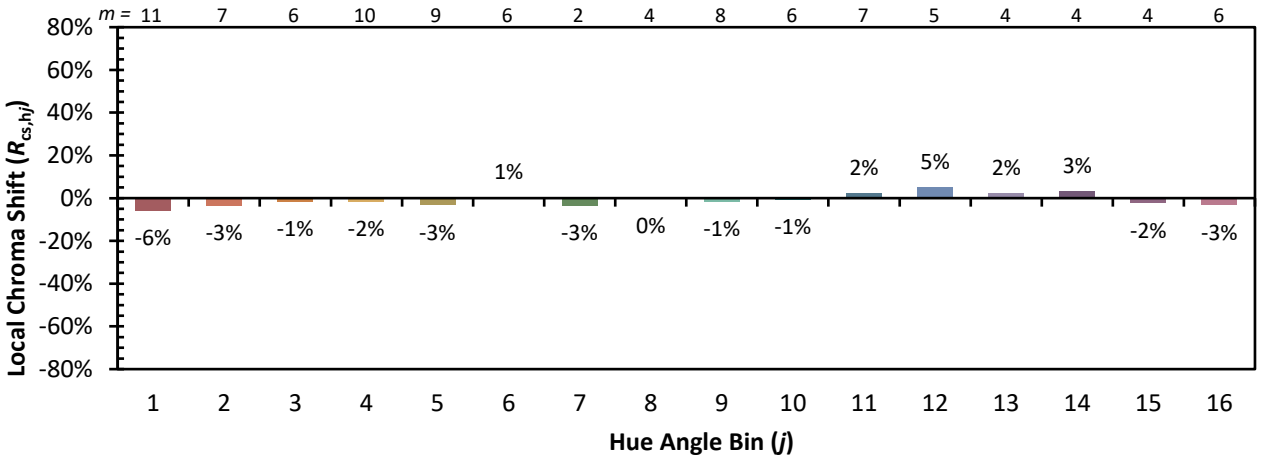
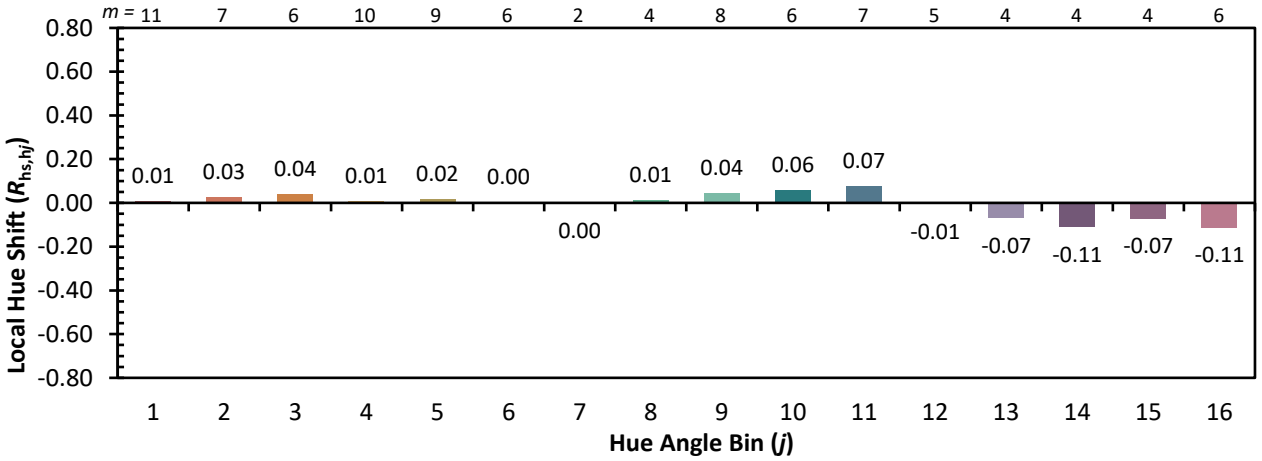
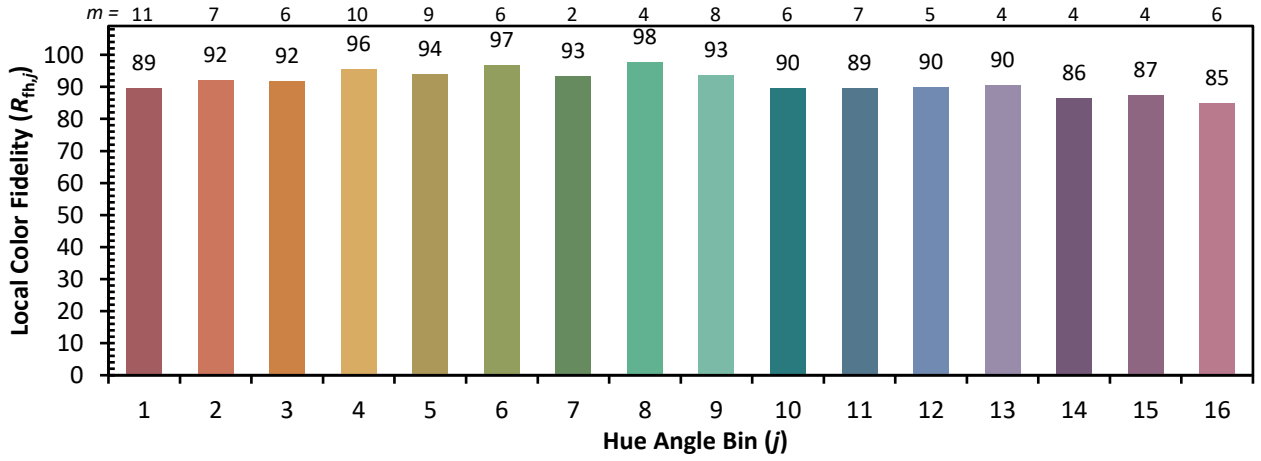
## Color Rendition by Hue-Angle Bin



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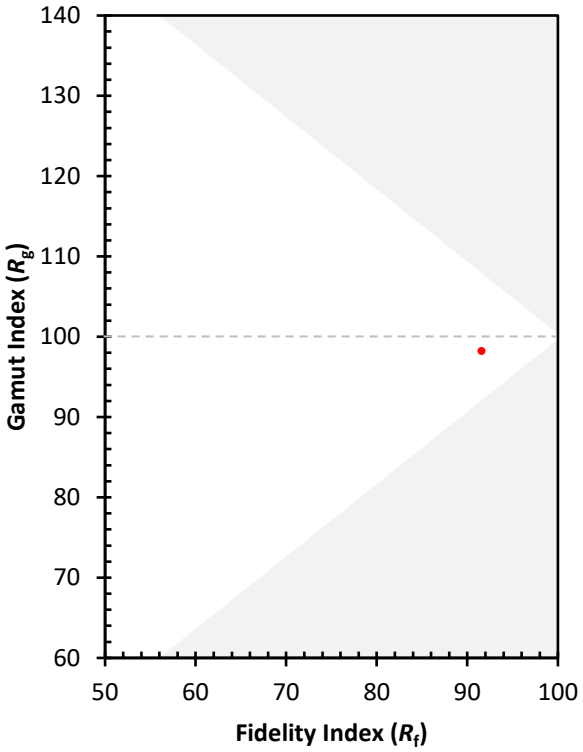
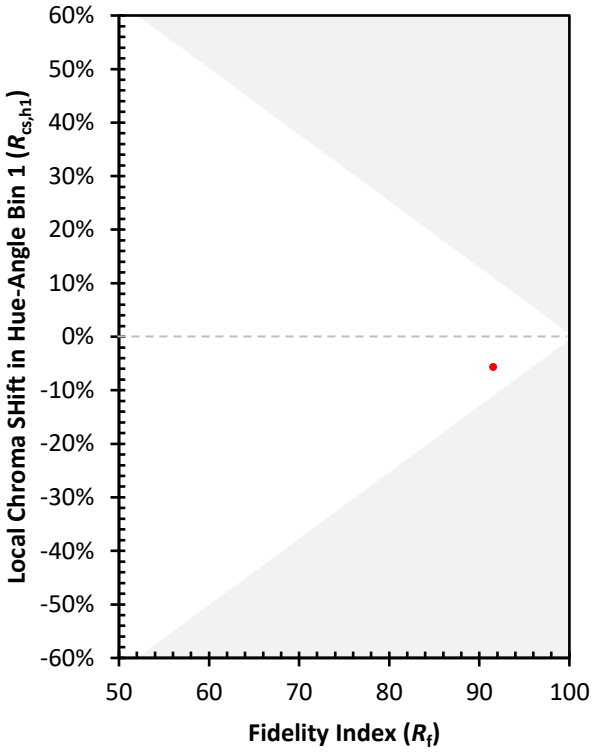
## Measure Comparisons




(END OF REPORT)