

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: CORELITE

Report Number: P1217111

Luminaire Tested: 14-ID2-35-CNC-L935-U

Issue Date: 12/5/2025

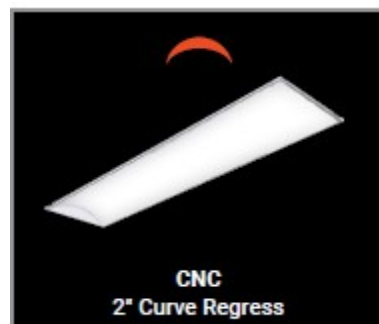
Test Information

Test Method: LM-79-2019
Report Number: P1217111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2508-507-17)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14-ID2-35-CNC-L935-U
Description: 1X4 IN DEPTH TROFFER WITH 2INCH CURVE REGRESS LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

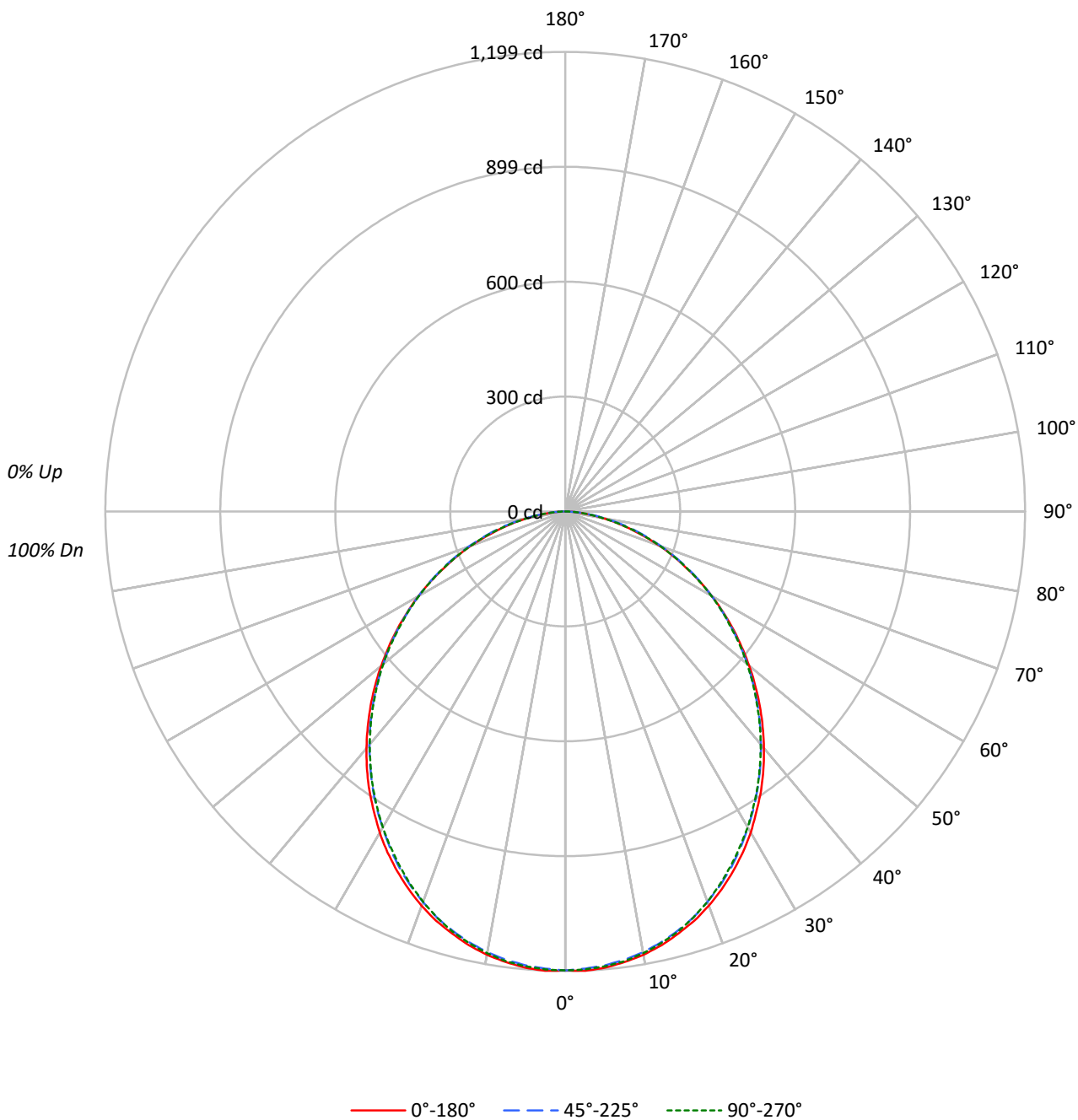
Lumens per Lamp: N/A
Luminaire Lumens: 3064.3 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.3
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.6
Input Voltage (V): 120
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: P1217111
CATALOG NUMBER: 14-ID2-35-CNC-L935-U

Luminous Intensity Polar Plot





TEST NUMBER: P1217111
 CATALOG NUMBER: 14-ID2-35-CNC-L935-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 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 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 90 | 88 | 87 | 84 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 48 | 61 | 54 | 48 | 59 | 53 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3222 | 3222 | 3222 |
| 5° | 3227 | 3210 | 3217 |
| 10° | 3209 | 3190 | 3198 |
| 15° | 3176 | 3156 | 3161 |
| 20° | 3135 | 3105 | 3103 |
| 25° | 3075 | 3041 | 3031 |
| 30° | 3006 | 2959 | 2956 |
| 35° | 2923 | 2877 | 2874 |
| 40° | 2831 | 2789 | 2786 |
| 45° | 2730 | 2694 | 2689 |
| 50° | 2622 | 2596 | 2591 |
| 55° | 2505 | 2488 | 2476 |
| 60° | 2375 | 2375 | 2366 |
| 65° | 2216 | 2249 | 2229 |
| 70° | 2054 | 2099 | 2066 |
| 75° | 1814 | 1929 | 1853 |
| 80° | 1542 | 1663 | 1542 |
| 85° | 1158 | 1254 | 1207 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2730 cd/sqm



TEST NUMBER: P1217111
 CATALOG NUMBER: 14-ID2-35-CNC-L935-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.0 | 3.7 |
| 10°-20° | 319.8 | 10.4 |
| 20°-30° | 471.9 | 15.4 |
| 30°-40° | 549.2 | 17.9 |
| 40°-50° | 547.3 | 17.9 |
| 50°-60° | 474.6 | 15.5 |
| 60°-70° | 348.1 | 11.4 |
| 70°-80° | 192.5 | 6.3 |
| 80°-90° | 47.9 | 1.6 |
| 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° | 904.7 | 29.5 |
| 0°-40° | 1453.9 | 47.4 |
| 0°-60° | 2475.7 | 80.8 |
| 0°-90° | 3064.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3064.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1197 | 1197 | 1197 | 1197 | 1197 | |
| 5° | 1195 | 1193 | 1188 | 1188 | 1191 | 113 |
| 15° | 1140 | 1138 | 1133 | 1131 | 1135 | 322 |
| 25° | 1036 | 1030 | 1024 | 1019 | 1021 | 477 |
| 35° | 890 | 884 | 876 | 872 | 875 | 556 |
| 45° | 717 | 714 | 708 | 704 | 706 | 553 |
| 55° | 534 | 533 | 530 | 527 | 528 | 477 |
| 65° | 348 | 354 | 353 | 349 | 350 | 346 |
| 75° | 174 | 186 | 186 | 179 | 178 | 187 |
| 85° | 38 | 43 | 41 | 38 | 39 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1217111
 CATALOG NUMBER: 14-ID2-35-CNC-L935-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1197.3 | 1197.3 | 1197.3 | 1197.3 | 1197.3 |
| 2.5° | 1199.4 | 1197.8 | 1193.6 | 1193.6 | 1195.7 |
| 5° | 1194.7 | 1193.1 | 1188.4 | 1188.4 | 1191.0 |
| 7.5° | 1185.8 | 1184.8 | 1179.6 | 1179.6 | 1183.2 |
| 10° | 1174.3 | 1172.3 | 1167.6 | 1167.1 | 1170.2 |
| 12.5° | 1159.2 | 1157.2 | 1151.9 | 1150.9 | 1154.0 |
| 15° | 1140.0 | 1137.9 | 1132.7 | 1131.1 | 1134.8 |
| 17.5° | 1119.6 | 1115.5 | 1110.8 | 1107.7 | 1110.8 |
| 20° | 1094.6 | 1090.5 | 1084.2 | 1080.6 | 1083.7 |
| 22.5° | 1066.5 | 1061.8 | 1055.6 | 1049.8 | 1053.5 |
| 25° | 1035.8 | 1030.0 | 1024.3 | 1018.6 | 1020.7 |
| 27.5° | 1002.9 | 996.2 | 989.4 | 984.2 | 986.3 |
| 30° | 967.5 | 960.2 | 952.4 | 948.2 | 951.4 |
| 32.5° | 927.9 | 923.7 | 915.4 | 910.7 | 913.3 |
| 35° | 889.9 | 884.1 | 875.8 | 871.6 | 874.8 |
| 37.5° | 848.7 | 843.0 | 835.7 | 831.0 | 834.1 |
| 40° | 806.0 | 800.8 | 794.0 | 789.3 | 793.0 |
| 42.5° | 762.2 | 759.1 | 751.8 | 746.6 | 750.2 |
| 45° | 717.4 | 713.8 | 708.0 | 703.9 | 706.5 |
| 47.5° | 672.1 | 669.0 | 664.3 | 659.6 | 663.2 |
| 50° | 626.2 | 625.2 | 620.0 | 615.8 | 619.0 |
| 52.5° | 579.9 | 579.9 | 575.2 | 571.5 | 574.7 |
| 55° | 534.0 | 533.0 | 530.4 | 527.3 | 527.8 |
| 57.5° | 487.7 | 487.7 | 485.6 | 482.5 | 485.1 |
| 60° | 441.3 | 443.4 | 441.3 | 437.6 | 439.7 |
| 62.5° | 395.4 | 398.0 | 397.0 | 392.8 | 394.9 |
| 65° | 348.0 | 353.8 | 353.2 | 348.6 | 350.1 |
| 67.5° | 305.3 | 310.0 | 309.5 | 305.3 | 306.4 |
| 70° | 261.0 | 267.3 | 266.8 | 262.1 | 262.6 |
| 72.5° | 216.2 | 225.6 | 225.1 | 219.9 | 219.9 |
| 75° | 174.5 | 186.0 | 185.5 | 178.7 | 178.2 |
| 77.5° | 137.0 | 146.9 | 145.9 | 138.6 | 138.6 |
| 80° | 99.5 | 108.4 | 107.3 | 99.5 | 99.5 |
| 82.5° | 66.2 | 74.0 | 71.9 | 65.6 | 66.7 |
| 85° | 37.5 | 42.7 | 40.6 | 37.5 | 39.1 |
| 87.5° | 13.5 | 16.7 | 16.2 | 13.5 | 15.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P1217111
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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 15.18 | 16.79 | 15.54 | 17.10 | 17.41 | 15.11 | 16.72 | 15.48 | 17.03 | 17.35 |
| | 3H | 16.86 | 18.31 | 17.24 | 18.64 | 19.00 | 16.80 | 18.25 | 17.18 | 18.58 | 18.94 |
| | 4H | 17.46 | 18.82 | 17.86 | 19.17 | 19.54 | 17.41 | 18.77 | 17.81 | 19.12 | 19.50 |
| | 6H | 17.87 | 19.13 | 18.28 | 19.50 | 19.89 | 17.81 | 19.08 | 18.23 | 19.44 | 19.83 |
| | 8H | 17.98 | 19.19 | 18.41 | 19.58 | 19.98 | 17.93 | 19.13 | 18.35 | 19.52 | 19.92 |
| | 12H | 18.05 | 19.20 | 18.47 | 19.58 | 20.01 | 17.99 | 19.15 | 18.42 | 19.53 | 19.96 |
| 4H | 2H | 15.78 | 17.14 | 16.18 | 17.49 | 17.87 | 15.72 | 17.09 | 16.12 | 17.44 | 17.81 |
| | 3H | 17.69 | 18.83 | 18.10 | 19.23 | 19.63 | 17.63 | 18.77 | 18.04 | 19.17 | 19.57 |
| | 4H | 18.42 | 19.45 | 18.85 | 19.87 | 20.30 | 18.35 | 19.38 | 18.79 | 19.80 | 20.23 |
| | 6H | 18.96 | 19.86 | 19.42 | 20.30 | 20.76 | 18.87 | 19.77 | 19.33 | 20.21 | 20.67 |
| | 8H | 19.12 | 19.96 | 19.58 | 20.40 | 20.87 | 19.02 | 19.86 | 19.48 | 20.30 | 20.77 |
| | 12H | 19.22 | 19.97 | 19.70 | 20.45 | 20.92 | 19.12 | 19.87 | 19.60 | 20.35 | 20.82 |
| 8H | 4H | 18.71 | 19.55 | 19.17 | 20.00 | 20.46 | 18.65 | 19.49 | 19.11 | 19.94 | 20.40 |
| | 6H | 19.37 | 20.07 | 19.86 | 20.56 | 21.03 | 19.27 | 19.97 | 19.77 | 20.46 | 20.93 |
| | 8H | 19.59 | 20.22 | 20.10 | 20.73 | 21.21 | 19.47 | 20.10 | 19.98 | 20.61 | 21.09 |
| | 12H | 19.76 | 20.31 | 20.26 | 20.80 | 21.36 | 19.63 | 20.18 | 20.13 | 20.67 | 21.23 |
| 12H | 4H | 18.74 | 19.49 | 19.22 | 19.97 | 20.44 | 18.68 | 19.43 | 19.16 | 19.91 | 20.38 |
| | 6H | 19.41 | 20.04 | 19.92 | 20.55 | 21.03 | 19.32 | 19.95 | 19.83 | 20.45 | 20.94 |
| | 8H | 19.69 | 20.24 | 20.20 | 20.73 | 21.29 | 19.57 | 20.13 | 20.08 | 20.62 | 21.18 |

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

Corelite

Report Number: SP1-2506-458-10

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L935-U

Data in this report applies to families of products including 22ID2-55-CFR1-L935-U

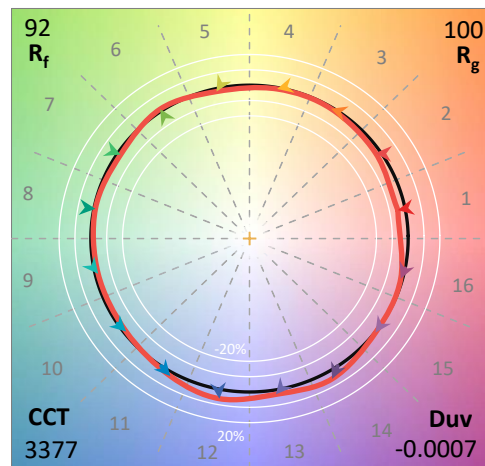
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-10
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/27/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Corelite
 Catalog Number: **22ID2-55-CFR1-L935-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 90CRI

Spectral Parameters

CCT (K): 3377
 CIE u': 0.2392
 CIE v': 0.5128
 Duv: -0.0007
 CIE x: 0.4116
 CIE y: 0.3922
 CIE z: 0.1962
 Peak Wavelength (nm): 618
 Dominant Wavelength (nm): 581
 Purity: 41.24368
 Rf: 91.8
 Rg: 99.6

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 93.6 | | |
| R1: | 94.1 | R9: | 64.2 |
| R2: | 96.6 | R10: | 91.1 |
| R3: | 97.5 | R11: | 94.7 |
| R4: | 94.0 | R12: | 78.5 |
| R5: | 93.6 | R13: | 95.0 |
| R6: | 94.8 | R14: | 98.1 |
| R7: | 93.4 | R15: | 91.0 |
| R8: | 84.8 | | |



Test Conditions

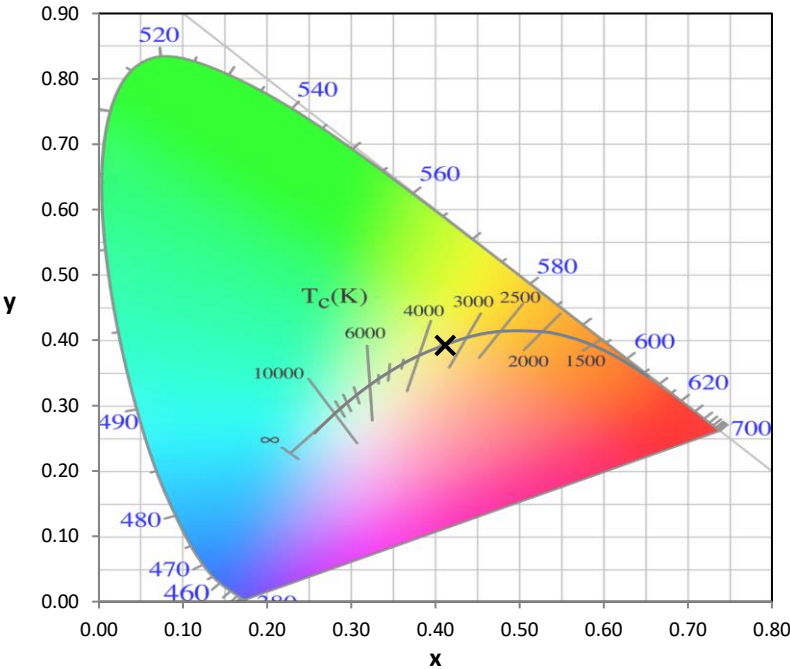
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2506-458-10

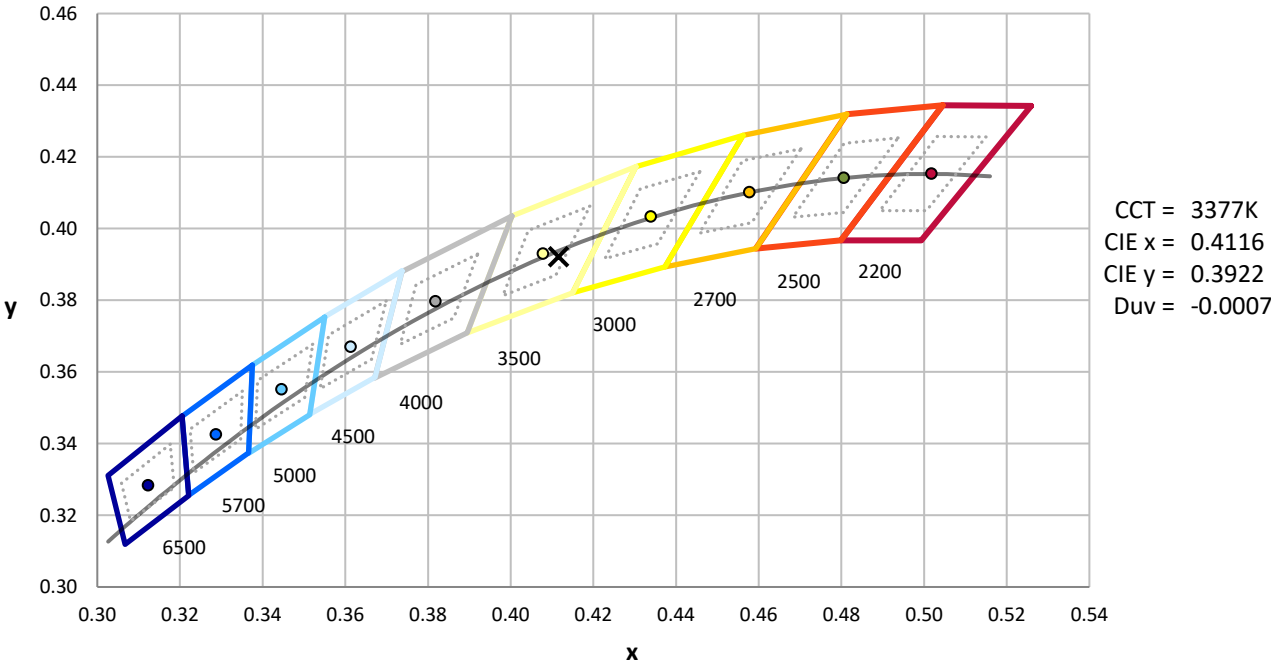
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 6/16/2025 | 12/16/2025 |
| Power Meter | 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: SP1-2506-458-10

CIE 1931 Chromaticity Diagram



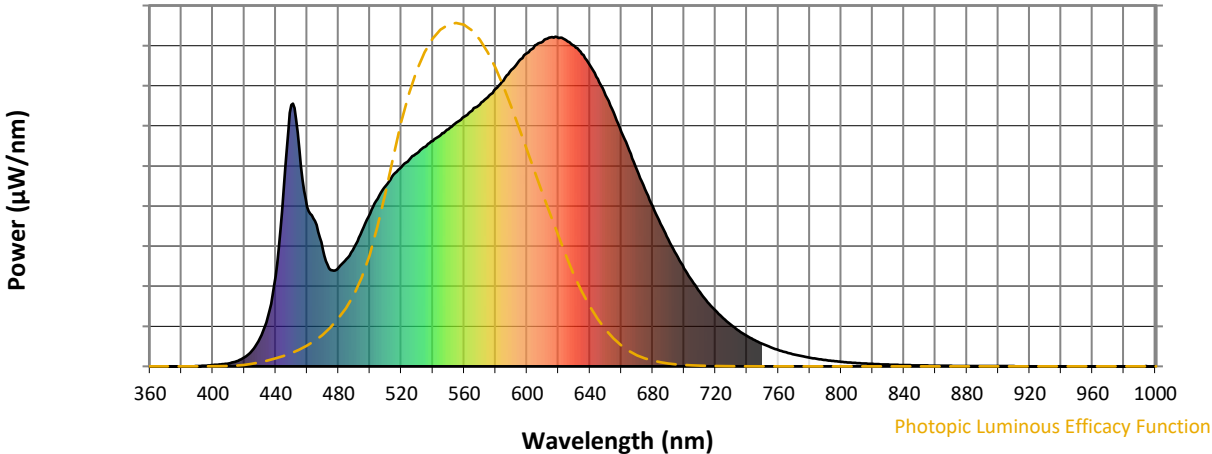
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-10

Photopic Flux vs. Wavelength

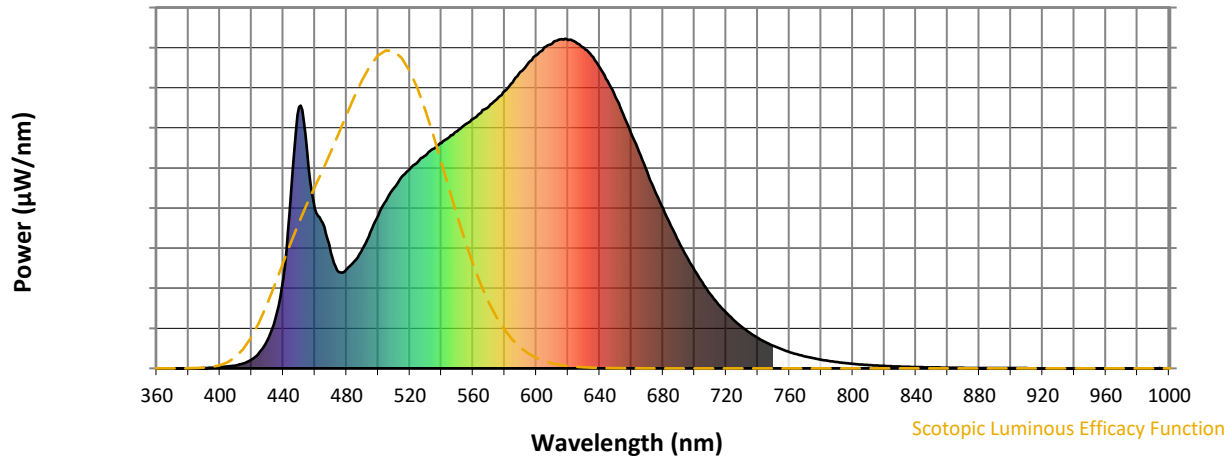


Photopic Lumens: NR

| 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 | 362 | NR | 620 | 996 | NR | 750 | 68 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 412 | NR | 625 | 989 | NR | 755 | 58 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 463 | NR | 630 | 973 | NR | 760 | 49 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 509 | NR | 635 | 947 | NR | 765 | 42 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 548 | NR | 640 | 914 | NR | 770 | 36 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 582 | NR | 645 | 872 | NR | 775 | 31 | NR | 905 | 1 | NR |
| 390 | 1 | NR | 520 | 605 | NR | 650 | 822 | NR | 780 | 26 | NR | 910 | 1 | NR |
| 395 | 2 | NR | 525 | 626 | NR | 655 | 770 | NR | 785 | 22 | NR | 915 | 1 | NR |
| 400 | 4 | NR | 530 | 646 | NR | 660 | 712 | NR | 790 | 19 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 666 | NR | 665 | 656 | NR | 795 | 16 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 683 | NR | 670 | 596 | NR | 800 | 14 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 702 | NR | 675 | 538 | NR | 805 | 12 | NR | 935 | 0 | NR |
| 420 | 27 | NR | 550 | 720 | NR | 680 | 486 | NR | 810 | 10 | NR | 940 | 0 | NR |
| 425 | 48 | NR | 555 | 740 | NR | 685 | 432 | NR | 815 | 9 | NR | 945 | 0 | NR |
| 430 | 85 | NR | 560 | 757 | NR | 690 | 385 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 152 | NR | 565 | 776 | NR | 695 | 339 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 274 | NR | 570 | 794 | NR | 700 | 297 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 536 | NR | 575 | 816 | NR | 705 | 260 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 793 | NR | 580 | 842 | NR | 710 | 225 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 867 | NR | 715 | 194 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 484 | NR | 590 | 899 | NR | 720 | 169 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 441 | NR | 595 | 927 | NR | 725 | 146 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 353 | NR | 600 | 950 | NR | 730 | 125 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 293 | NR | 605 | 974 | NR | 735 | 107 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 300 | NR | 610 | 986 | NR | 740 | 92 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 998 | NR | 745 | 79 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2506-458-10

Scotopic Flux vs. Wavelength



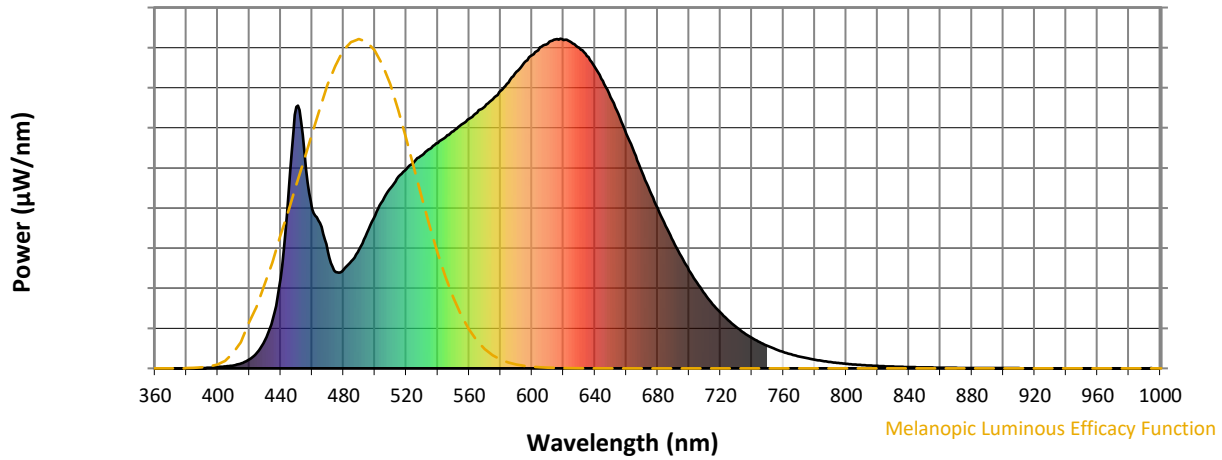
Scotopic Lumens: NR

S/P: 1.58

| 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 | 362 | NR | 620 | 996 | NR | 750 | 68 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 412 | NR | 625 | 989 | NR | 755 | 58 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 463 | NR | 630 | 973 | NR | 760 | 49 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 509 | NR | 635 | 947 | NR | 765 | 42 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 548 | NR | 640 | 914 | NR | 770 | 36 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 582 | NR | 645 | 872 | NR | 775 | 31 | NR | 905 | 1 | NR |
| 390 | 1 | NR | 520 | 605 | NR | 650 | 822 | NR | 780 | 26 | NR | 910 | 1 | NR |
| 395 | 2 | NR | 525 | 626 | NR | 655 | 770 | NR | 785 | 22 | NR | 915 | 1 | NR |
| 400 | 4 | NR | 530 | 646 | NR | 660 | 712 | NR | 790 | 19 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 666 | NR | 665 | 656 | NR | 795 | 16 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 683 | NR | 670 | 596 | NR | 800 | 14 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 702 | NR | 675 | 538 | NR | 805 | 12 | NR | 935 | 0 | NR |
| 420 | 27 | NR | 550 | 720 | NR | 680 | 486 | NR | 810 | 10 | NR | 940 | 0 | NR |
| 425 | 48 | NR | 555 | 740 | NR | 685 | 432 | NR | 815 | 9 | NR | 945 | 0 | NR |
| 430 | 85 | NR | 560 | 757 | NR | 690 | 385 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 152 | NR | 565 | 776 | NR | 695 | 339 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 274 | NR | 570 | 794 | NR | 700 | 297 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 536 | NR | 575 | 816 | NR | 705 | 260 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 793 | NR | 580 | 842 | NR | 710 | 225 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 867 | NR | 715 | 194 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 484 | NR | 590 | 899 | NR | 720 | 169 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 441 | NR | 595 | 927 | NR | 725 | 146 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 353 | NR | 600 | 950 | NR | 730 | 125 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 293 | NR | 605 | 974 | NR | 735 | 107 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 300 | NR | 610 | 986 | NR | 740 | 92 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 998 | NR | 745 | 79 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2506-458-10

Melanopic Flux vs. Wavelength



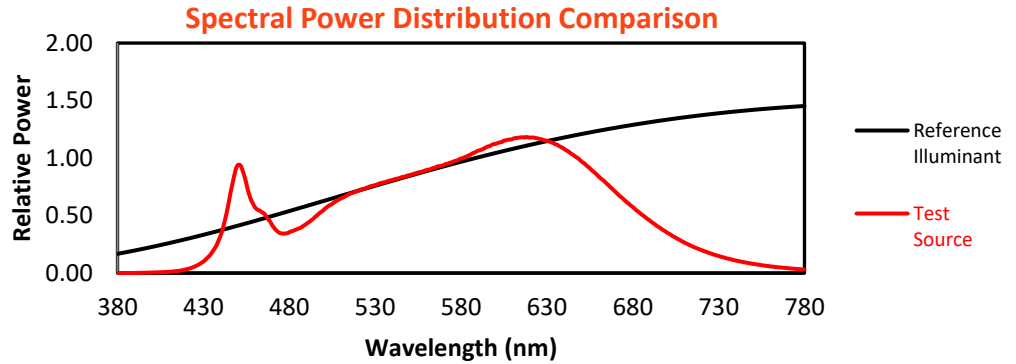
Melanopic Lumens: NR

M/P: 3.19

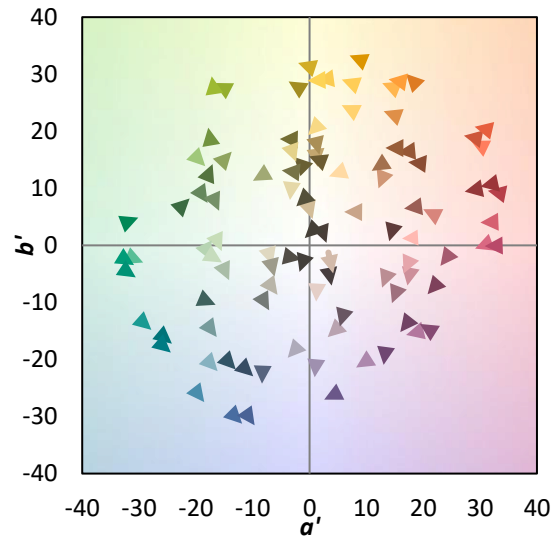
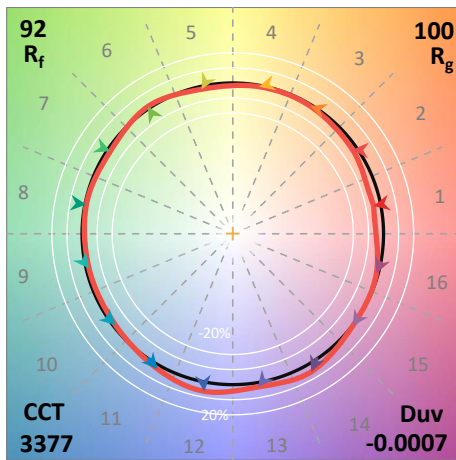
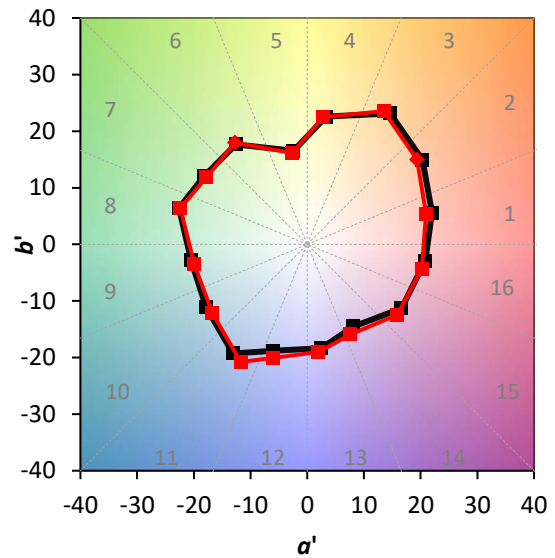
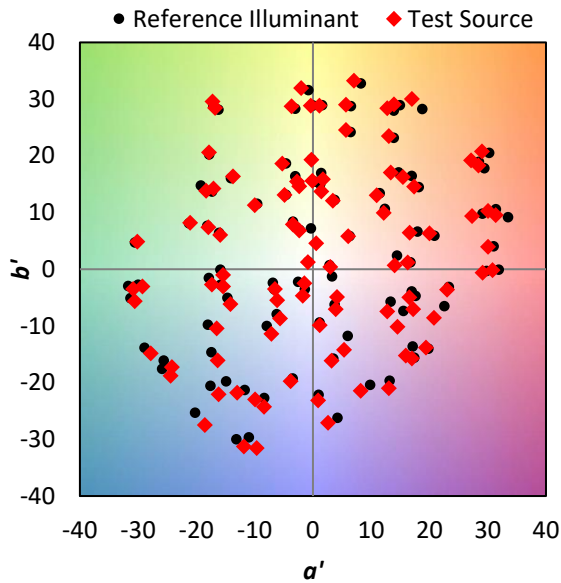
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 362 | NR | 620 | 996 | NR | 750 | 68 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 412 | NR | 625 | 989 | NR | 755 | 58 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 463 | NR | 630 | 973 | NR | 760 | 49 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 509 | NR | 635 | 947 | NR | 765 | 42 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 548 | NR | 640 | 914 | NR | 770 | 36 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 582 | NR | 645 | 872 | NR | 775 | 31 | NR | 905 | 1 | NR |
| 390 | 1 | NR | 520 | 605 | NR | 650 | 822 | NR | 780 | 26 | NR | 910 | 1 | NR |
| 395 | 2 | NR | 525 | 626 | NR | 655 | 770 | NR | 785 | 22 | NR | 915 | 1 | NR |
| 400 | 4 | NR | 530 | 646 | NR | 660 | 712 | NR | 790 | 19 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 666 | NR | 665 | 656 | NR | 795 | 16 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 683 | NR | 670 | 596 | NR | 800 | 14 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 702 | NR | 675 | 538 | NR | 805 | 12 | NR | 935 | 0 | NR |
| 420 | 27 | NR | 550 | 720 | NR | 680 | 486 | NR | 810 | 10 | NR | 940 | 0 | NR |
| 425 | 48 | NR | 555 | 740 | NR | 685 | 432 | NR | 815 | 9 | NR | 945 | 0 | NR |
| 430 | 85 | NR | 560 | 757 | NR | 690 | 385 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 152 | NR | 565 | 776 | NR | 695 | 339 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 274 | NR | 570 | 794 | NR | 700 | 297 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 536 | NR | 575 | 816 | NR | 705 | 260 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 793 | NR | 580 | 842 | NR | 710 | 225 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 867 | NR | 715 | 194 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 484 | NR | 590 | 899 | NR | 720 | 169 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 441 | NR | 595 | 927 | NR | 725 | 146 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 353 | NR | 600 | 950 | NR | 730 | 125 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 293 | NR | 605 | 974 | NR | 735 | 107 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 300 | NR | 610 | 986 | NR | 740 | 92 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 325 | NR | 615 | 998 | NR | 745 | 79 | NR | 875 | 1 | NR | | | |

Summary

$R_f = 91.8$
 $R_g = 99.6$
 $CIE R_a = 93.6$
 $R_9 = 64.2$

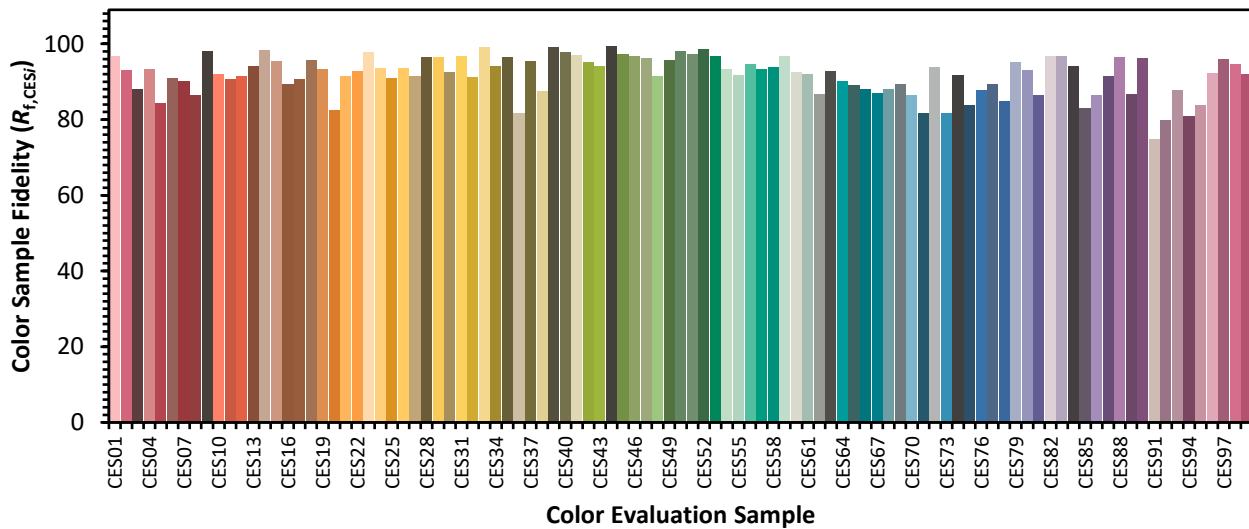


Color Vector Graphics

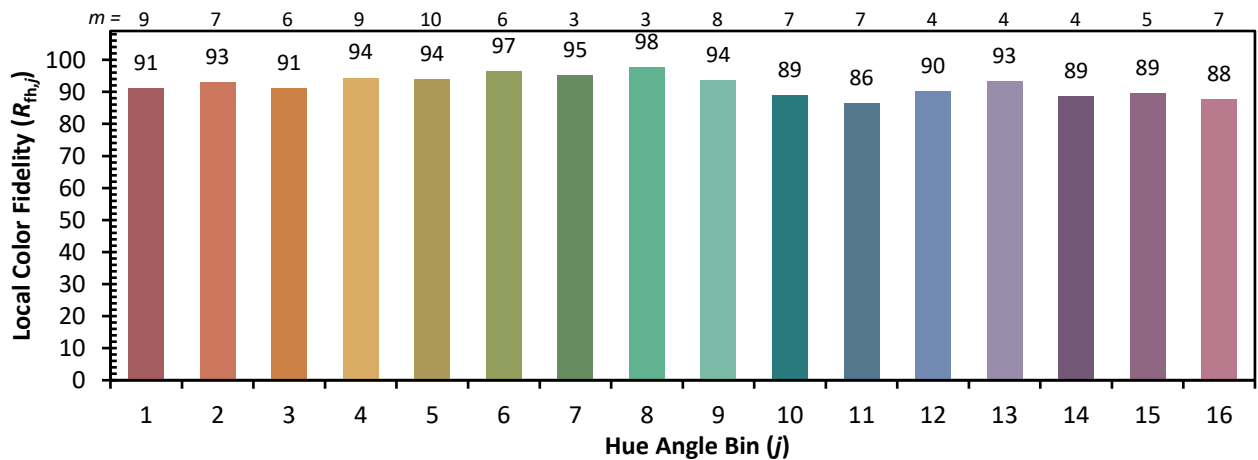
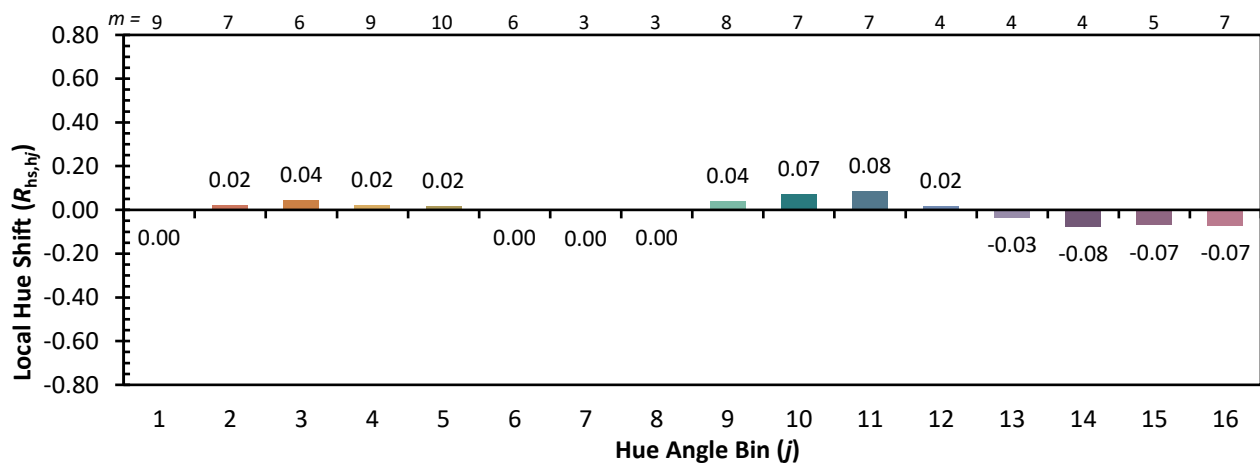
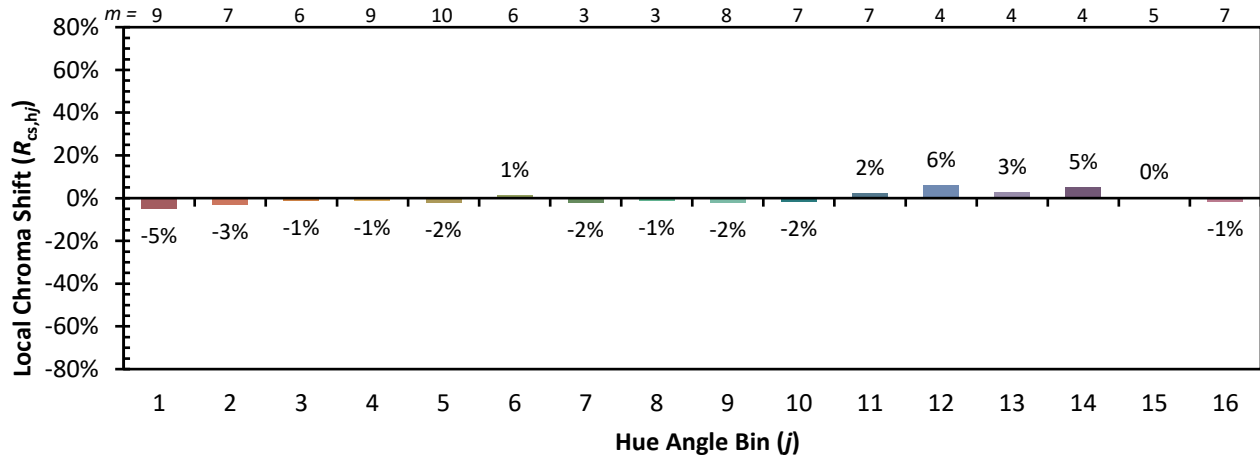


Individual Sample Fidelity Index ($R_{f,i}$)

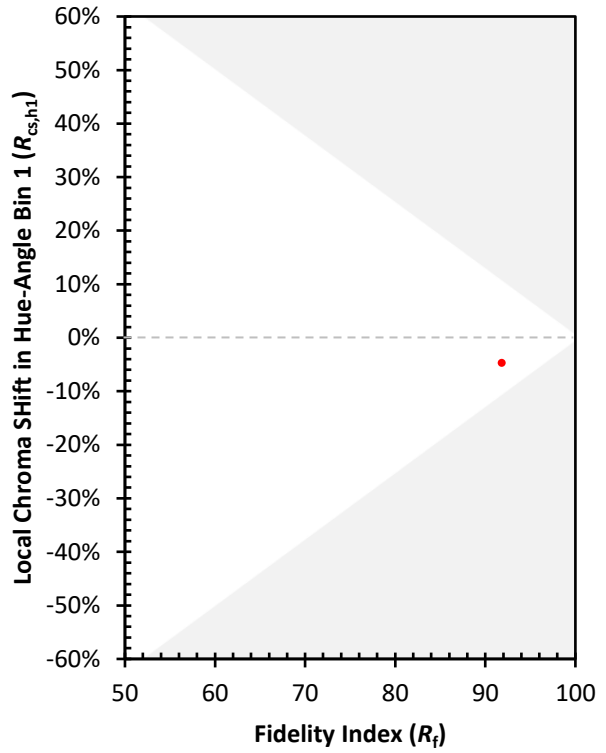
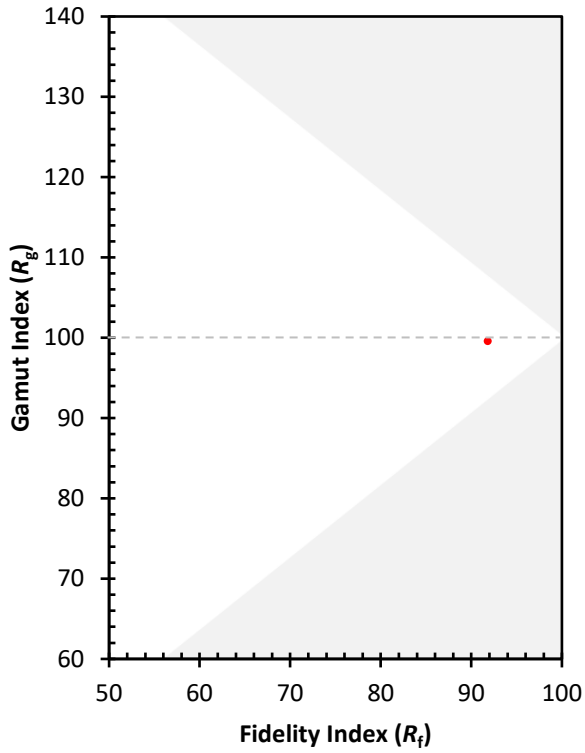
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 88 |
| CES02 = 62 | CES27 = 92 | CES52 = 99 | CES77 = 89 |
| CES03 = 31 | CES28 = 96 | CES53 = 97 | CES78 = 85 |
| CES04 = 70 | CES29 = 96 | CES54 = 93 | CES79 = 95 |
| CES05 = 50 | CES30 = 92 | CES55 = 92 | CES80 = 93 |
| CES06 = 51 | CES31 = 97 | CES56 = 95 | CES81 = 86 |
| CES07 = 43 | CES32 = 91 | CES57 = 93 | CES82 = 97 |
| CES08 = 42 | CES33 = 99 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 94 | CES59 = 97 | CES84 = 94 |
| CES10 = 75 | CES35 = 96 | CES60 = 92 | CES85 = 83 |
| CES11 = 58 | CES36 = 82 | CES61 = 92 | CES86 = 86 |
| CES12 = 64 | CES37 = 95 | CES62 = 87 | CES87 = 91 |
| CES13 = 43 | CES38 = 87 | CES63 = 93 | CES88 = 97 |
| CES14 = 74 | CES39 = 99 | CES64 = 90 | CES89 = 87 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 97 | CES66 = 88 | CES91 = 75 |
| CES17 = 50 | CES42 = 95 | CES67 = 87 | CES92 = 80 |
| CES18 = 56 | CES43 = 94 | CES68 = 88 | CES93 = 88 |
| CES19 = 71 | CES44 = 99 | CES69 = 89 | CES94 = 81 |
| CES20 = 67 | CES45 = 97 | CES70 = 86 | CES95 = 84 |
| CES21 = 86 | CES46 = 97 | CES71 = 82 | CES96 = 92 |
| CES22 = 78 | CES47 = 96 | CES72 = 94 | CES97 = 96 |
| CES23 = 91 | CES48 = 92 | CES73 = 82 | CES98 = 95 |
| CES24 = 90 | CES49 = 96 | CES74 = 92 | CES99 = 92 |
| CES25 = 71 | CES50 = 98 | CES75 = 84 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)