

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: P1216118

Luminaire Tested: 24-ID2-100-CNV-L935-U

Issue Date: 12/5/2025

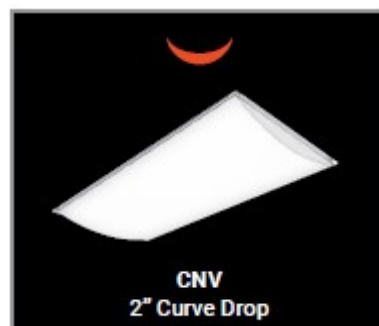
Test Information

Test Method: LM-79-2019
Report Number: P1216118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-100-CNV-L935-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH CURVE DROP
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

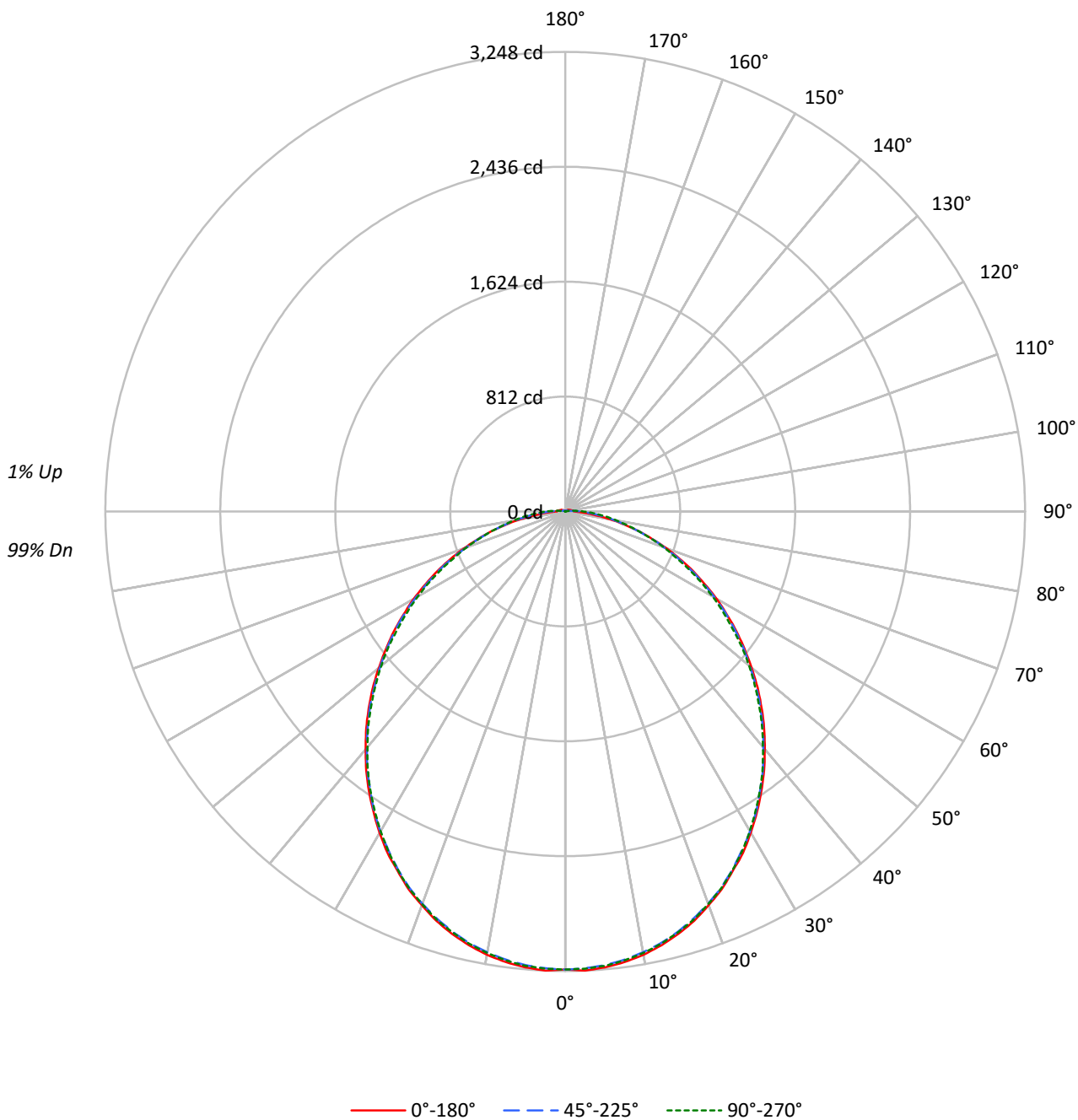
Lumens per Lamp: N/A
Luminaire Lumens: 8645.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.16')
CIE Type: Direct

Input Watts (W): 86.8
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: P1216118
CATALOG NUMBER: 24-ID2-100-CNV-L935-U

Luminous Intensity Polar Plot





TEST NUMBER: P1216118
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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 | 110 | 110 | 110 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1 | 108 | 104 | 99 | 95 | 105 | 101 | 97 | 94 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 |
| 2 | 99 | 90 | 84 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 80 | 71 | 65 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4355 | 4355 | 4355 |
| 5° | 4352 | 4315 | 4323 |
| 10° | 4316 | 4259 | 4269 |
| 15° | 4259 | 4188 | 4200 |
| 20° | 4179 | 4098 | 4108 |
| 25° | 4084 | 3988 | 4002 |
| 30° | 3982 | 3868 | 3873 |
| 35° | 3860 | 3723 | 3733 |
| 40° | 3727 | 3572 | 3576 |
| 45° | 3589 | 3418 | 3412 |
| 50° | 3432 | 3240 | 3241 |
| 55° | 3277 | 3065 | 3035 |
| 60° | 3108 | 2862 | 2841 |
| 65° | 2920 | 2640 | 2609 |
| 70° | 2693 | 2379 | 2389 |
| 75° | 2424 | 2106 | 2145 |
| 80° | 2051 | 1823 | 1965 |
| 85° | 1645 | 1607 | 1883 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3589 cd/sqm



TEST NUMBER: P1216118
 CATALOG NUMBER: 24-ID2-100-CNV-L935-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 305.8 | 3.5 |
| 10°-20° | 867.5 | 10.0 |
| 20°-30° | 1287.0 | 14.9 |
| 30°-40° | 1503.7 | 17.4 |
| 40°-50° | 1503.0 | 17.4 |
| 50°-60° | 1308.5 | 15.1 |
| 60°-70° | 970.0 | 11.2 |
| 70°-80° | 569.7 | 6.6 |
| 80°-90° | 228.7 | 2.6 |
| 90°-100° | 59.8 | 0.7 |
| 100°-110° | 19.5 | 0.2 |
| 110°-120° | 11.3 | 0.1 |
| 120°-130° | 6.1 | 0.1 |
| 130°-140° | 3.1 | 0.0 |
| 140°-150° | 1.5 | 0.0 |
| 150°-160° | 0.1 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2460.3 | 28.5 |
| 0°-40° | 3964.0 | 45.9 |
| 0°-60° | 6775.5 | 78.4 |
| 0°-90° | 8544.0 | 98.8 |
| 90°-120° | 90.6 | 1.0 |
| 90°-150° | 101.3 | 1.2 |
| 90°-180° | 101.0 | 1.2 |
| 0°-180° | 8645.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3237 | 3237 | 3237 | 3237 | 3237 | |
| 5° | 3234 | 3224 | 3218 | 3215 | 3223 | 307 |
| 15° | 3090 | 3080 | 3075 | 3074 | 3080 | 871 |
| 25° | 2802 | 2797 | 2793 | 2790 | 2796 | 1292 |
| 35° | 2416 | 2410 | 2402 | 2400 | 2400 | 1510 |
| 45° | 1962 | 1958 | 1949 | 1942 | 1937 | 1513 |
| 55° | 1477 | 1473 | 1465 | 1459 | 1441 | 1320 |
| 65° | 996 | 987 | 980 | 966 | 960 | 985 |
| 75° | 536 | 531 | 533 | 537 | 536 | 567 |
| 85° | 155 | 175 | 205 | 229 | 234 | 163 |
| 90° | 63 | 81 | 104 | 123 | 128 | 38 |
| 95° | 53 | 45 | 45 | 53 | 57 | 42 |
| 105° | 37 | 31 | 18 | 5 | 0 | 39 |
| 115° | 24 | 20 | 11 | 2 | 0 | 24 |
| 125° | 15 | 12 | 7 | 1 | 0 | 14 |
| 135° | 8 | 7 | 4 | 1 | 0 | 7 |
| 145° | 5 | 4 | 1 | 1 | 1 | 3 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: 24-ID2-100-CNV-L935-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 |
| 2.5° | 3247.8 | 3235.9 | 3231.2 | 3227.6 | 3233.6 |
| 5° | 3233.6 | 3224.1 | 3218.2 | 3214.6 | 3222.9 |
| 7.5° | 3212.2 | 3201.6 | 3195.6 | 3193.3 | 3200.4 |
| 10° | 3181.4 | 3168.4 | 3163.6 | 3161.3 | 3168.4 |
| 12.5° | 3139.9 | 3129.3 | 3124.5 | 3122.2 | 3129.3 |
| 15° | 3090.2 | 3079.5 | 3074.7 | 3073.6 | 3079.5 |
| 17.5° | 3032.1 | 3021.4 | 3015.5 | 3015.5 | 3022.6 |
| 20° | 2960.9 | 2953.8 | 2950.3 | 2949.1 | 2952.7 |
| 22.5° | 2889.8 | 2879.2 | 2878.0 | 2873.2 | 2881.5 |
| 25° | 2802.1 | 2797.4 | 2792.6 | 2790.3 | 2796.2 |
| 27.5° | 2720.3 | 2707.3 | 2701.4 | 2702.5 | 2706.1 |
| 30° | 2621.9 | 2613.6 | 2611.3 | 2605.4 | 2607.7 |
| 32.5° | 2520.0 | 2514.1 | 2511.7 | 2504.6 | 2504.6 |
| 35° | 2415.7 | 2409.8 | 2401.5 | 2400.3 | 2400.3 |
| 37.5° | 2307.8 | 2301.9 | 2294.8 | 2288.9 | 2291.2 |
| 40° | 2192.9 | 2186.9 | 2178.6 | 2177.4 | 2172.7 |
| 42.5° | 2080.3 | 2074.3 | 2064.8 | 2063.7 | 2058.9 |
| 45° | 1961.7 | 1958.2 | 1948.7 | 1941.6 | 1936.8 |
| 47.5° | 1843.2 | 1837.3 | 1826.6 | 1819.5 | 1815.9 |
| 50° | 1717.5 | 1711.6 | 1704.5 | 1697.4 | 1696.2 |
| 52.5° | 1596.6 | 1595.5 | 1584.8 | 1578.9 | 1572.9 |
| 55° | 1476.9 | 1473.4 | 1465.1 | 1459.1 | 1441.4 |
| 57.5° | 1352.5 | 1350.1 | 1345.3 | 1332.3 | 1321.6 |
| 60° | 1235.1 | 1228.0 | 1219.7 | 1204.3 | 1201.9 |
| 62.5° | 1110.7 | 1110.7 | 1097.6 | 1085.8 | 1081.0 |
| 65° | 995.7 | 987.4 | 980.3 | 966.0 | 960.1 |
| 67.5° | 876.0 | 874.8 | 861.7 | 853.4 | 842.8 |
| 70° | 759.8 | 756.2 | 745.6 | 743.2 | 740.8 |
| 72.5° | 643.6 | 642.4 | 640.1 | 637.7 | 631.8 |
| 75° | 535.8 | 531.0 | 533.4 | 537.0 | 535.8 |
| 77.5° | 426.7 | 432.6 | 435.0 | 445.7 | 446.9 |
| 80° | 324.8 | 334.3 | 348.5 | 365.1 | 368.6 |
| 82.5° | 232.3 | 245.4 | 272.6 | 294.0 | 298.7 |
| 85° | 155.3 | 175.4 | 205.1 | 228.8 | 233.5 |
| 87.5° | 96.0 | 118.5 | 150.5 | 173.1 | 176.6 |
| 90° | 62.8 | 80.6 | 104.3 | 123.3 | 128.0 |
| 92.5° | 58.1 | 56.9 | 69.9 | 84.2 | 88.9 |
| 95° | 53.3 | 45.0 | 45.0 | 53.3 | 56.9 |
| 97.5° | 49.8 | 41.5 | 28.4 | 29.6 | 30.8 |
| 100° | 45.0 | 37.9 | 21.3 | 13.0 | 13.0 |
| 102.5° | 41.5 | 34.4 | 19.0 | 4.7 | 1.2 |
| 105° | 36.7 | 30.8 | 17.8 | 4.7 | 0.0 |
| 107.5° | 33.2 | 28.4 | 15.4 | 3.6 | 0.0 |
| 110° | 29.6 | 24.9 | 14.2 | 3.6 | 0.0 |



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 CATALOG NUMBER: 24-ID2-100-CNV-L935-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 27.3 | 22.5 | 13.0 | 2.4 | 0.0 |
| 115° | 23.7 | 20.2 | 10.7 | 2.4 | 0.0 |
| 117.5° | 21.3 | 17.8 | 9.5 | 1.2 | 0.0 |
| 120° | 19.0 | 15.4 | 8.3 | 1.2 | 0.0 |
| 122.5° | 16.6 | 14.2 | 7.1 | 1.2 | 0.0 |
| 125° | 15.4 | 11.9 | 7.1 | 1.2 | 0.0 |
| 127.5° | 13.0 | 10.7 | 5.9 | 0.0 | 0.0 |
| 130° | 11.9 | 9.5 | 4.7 | 0.0 | 0.0 |
| 132.5° | 10.7 | 8.3 | 3.6 | 1.2 | 0.0 |
| 135° | 8.3 | 7.1 | 3.6 | 1.2 | 0.0 |
| 137.5° | 7.1 | 5.9 | 2.4 | 1.2 | 1.2 |
| 140° | 5.9 | 4.7 | 2.4 | 1.2 | 1.2 |
| 142.5° | 5.9 | 4.7 | 2.4 | 1.2 | 1.2 |
| 145° | 4.7 | 3.6 | 1.2 | 1.2 | 1.2 |
| 147.5° | 3.6 | 2.4 | 1.2 | 1.2 | 1.2 |
| 150° | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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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 | 15.73 | 17.32 | 16.11 | 17.66 | 18.01 | 15.75 | 17.34 | 16.13 | 17.68 | 18.02 |
| | 3H | 17.40 | 18.84 | 17.79 | 19.19 | 19.58 | 17.42 | 18.87 | 17.82 | 19.22 | 19.61 |
| | 4H | 18.00 | 19.35 | 18.41 | 19.73 | 20.13 | 18.08 | 19.44 | 18.49 | 19.81 | 20.21 |
| | 6H | 18.42 | 19.68 | 18.85 | 20.07 | 20.49 | 18.62 | 19.88 | 19.05 | 20.27 | 20.69 |
| | 8H | 18.54 | 19.74 | 18.98 | 20.16 | 20.59 | 18.85 | 20.05 | 19.29 | 20.46 | 20.89 |
| | 12H | 18.62 | 19.78 | 19.07 | 20.18 | 20.64 | 19.06 | 20.21 | 19.50 | 20.62 | 21.07 |
| 4H | 2H | 16.30 | 17.66 | 16.72 | 18.03 | 18.44 | 16.31 | 17.67 | 16.73 | 18.05 | 18.45 |
| | 3H | 18.18 | 19.32 | 18.61 | 19.74 | 20.17 | 18.21 | 19.35 | 18.64 | 19.77 | 20.20 |
| | 4H | 18.90 | 19.93 | 19.35 | 20.37 | 20.83 | 18.99 | 20.02 | 19.44 | 20.46 | 20.92 |
| | 6H | 19.44 | 20.35 | 19.91 | 20.81 | 21.29 | 19.67 | 20.57 | 20.14 | 21.04 | 21.52 |
| | 8H | 19.61 | 20.46 | 20.09 | 20.92 | 21.42 | 19.96 | 20.81 | 20.44 | 21.27 | 21.76 |
| | 12H | 19.73 | 20.50 | 20.23 | 20.99 | 21.49 | 20.24 | 21.00 | 20.74 | 21.50 | 22.00 |
| 8H | 4H | 19.18 | 20.03 | 19.66 | 20.49 | 20.99 | 19.26 | 20.11 | 19.74 | 20.57 | 21.07 |
| | 6H | 19.84 | 20.55 | 20.35 | 21.06 | 21.56 | 20.07 | 20.78 | 20.58 | 21.29 | 21.79 |
| | 8H | 20.08 | 20.72 | 20.60 | 21.24 | 21.75 | 20.45 | 21.09 | 20.98 | 21.62 | 22.13 |
| | 12H | 20.27 | 20.84 | 20.80 | 21.35 | 21.94 | 20.85 | 21.41 | 21.37 | 21.93 | 22.51 |
| 12H | 4H | 19.21 | 19.98 | 19.71 | 20.48 | 20.97 | 19.29 | 20.05 | 19.78 | 20.55 | 21.04 |
| | 6H | 19.90 | 20.54 | 20.43 | 21.07 | 21.58 | 20.12 | 20.76 | 20.65 | 21.29 | 21.80 |
| | 8H | 20.20 | 20.77 | 20.73 | 21.28 | 21.86 | 20.57 | 21.13 | 21.09 | 21.65 | 22.23 |

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

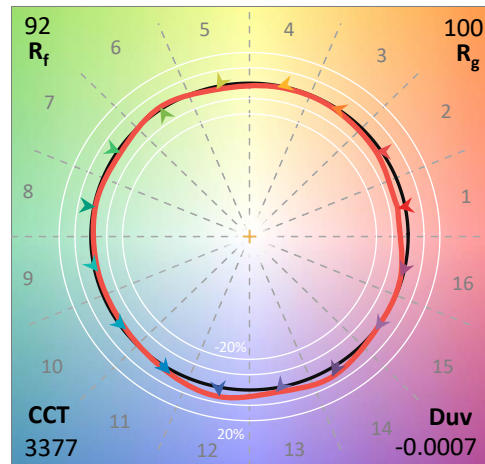
Test Information

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

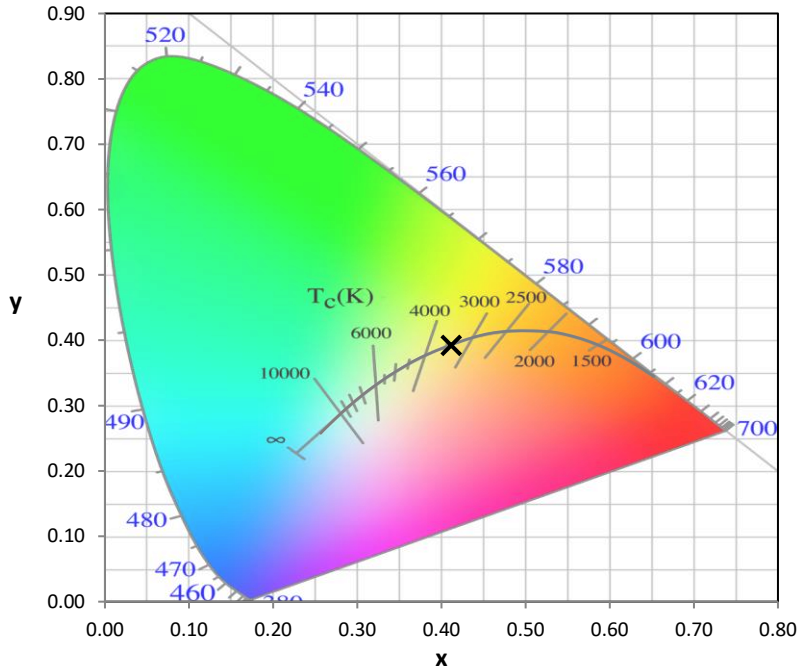
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

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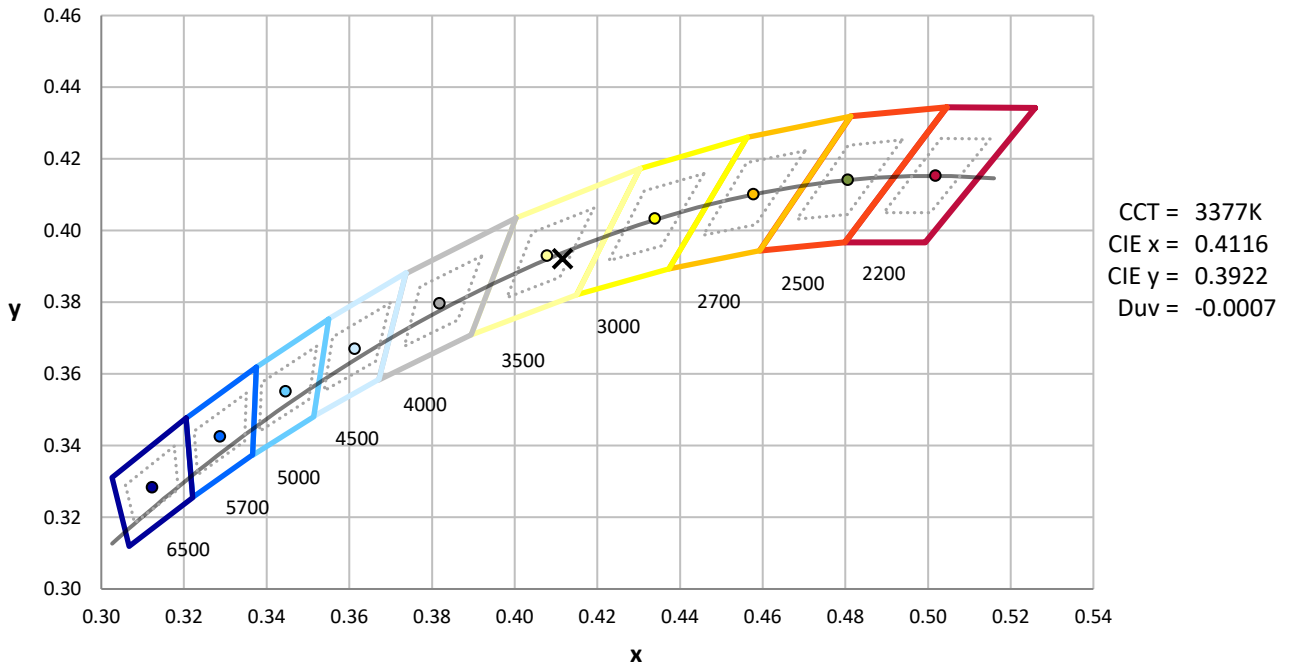
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 6/16/2025 | 12/16/2025 |
| Power Meter |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

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CIE 1931 Chromaticity Diagram



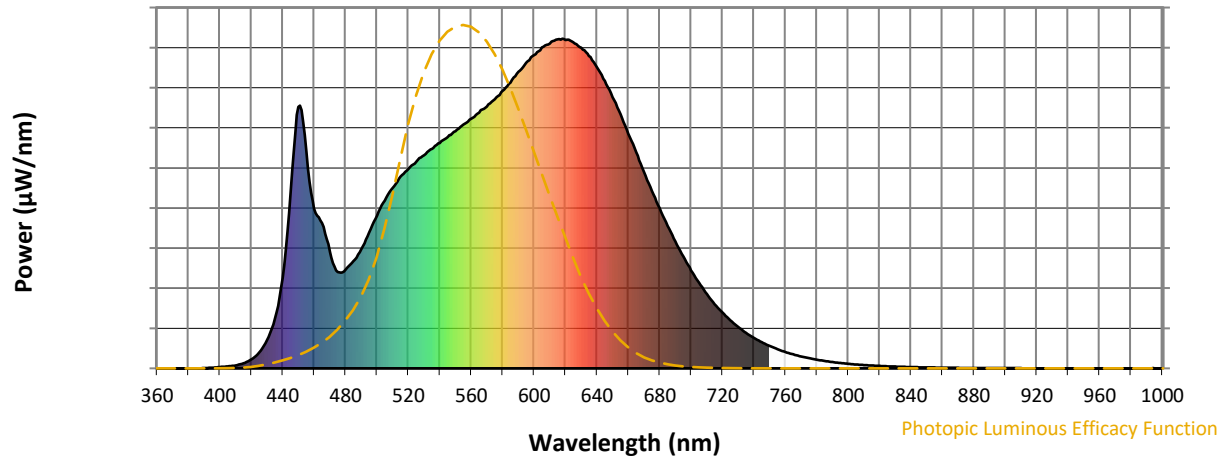
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

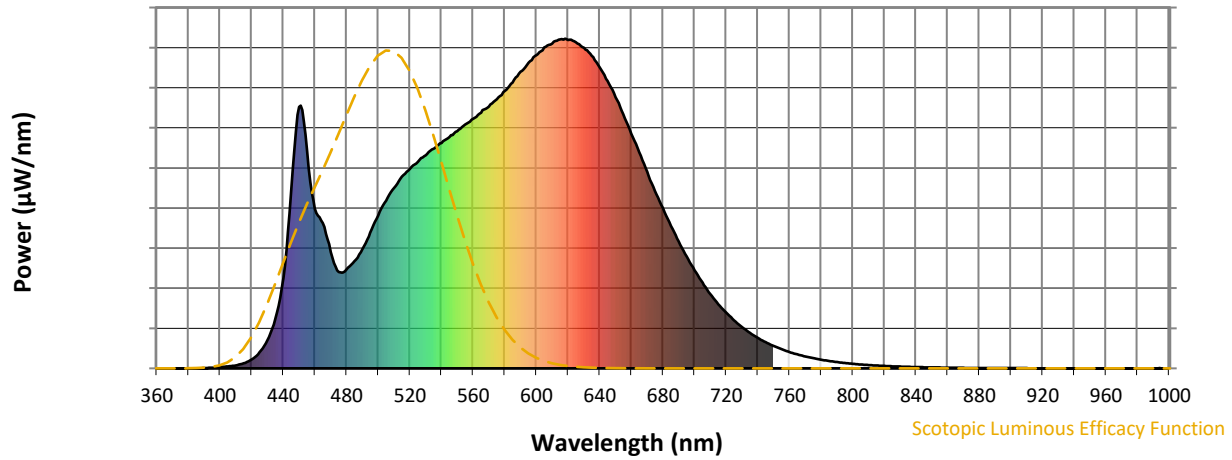


Photopic Lumens: NR

| 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 | 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



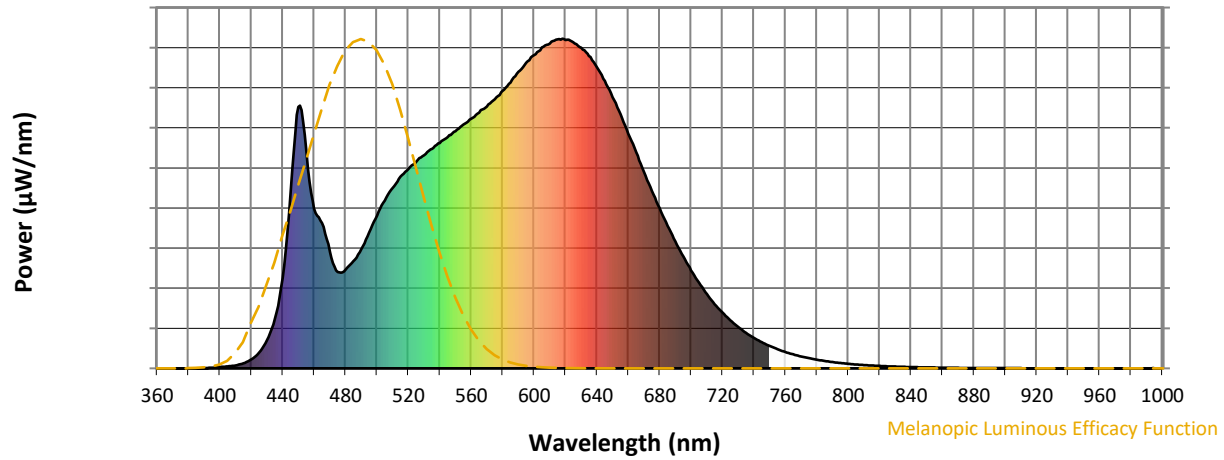
Scotopic Lumens: NR

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



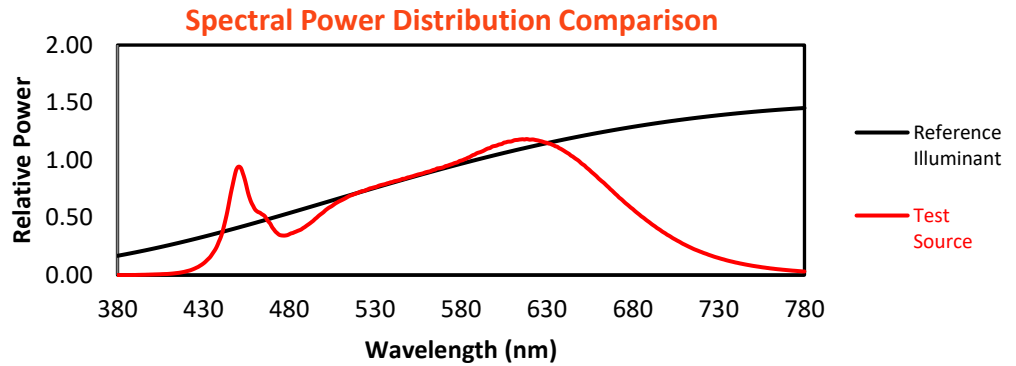
Melanopic Lumens: NR

M/P: 3.19

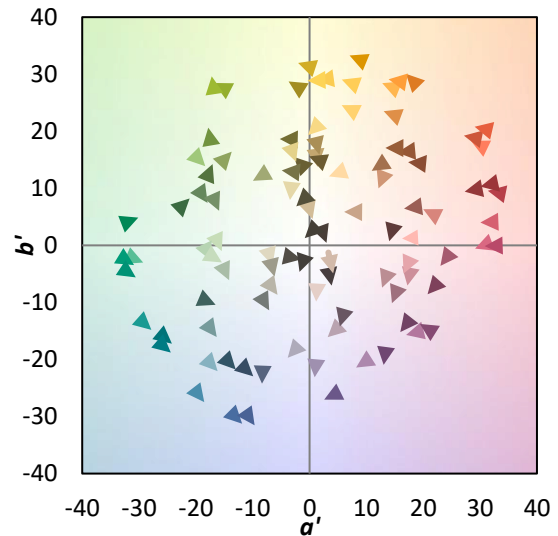
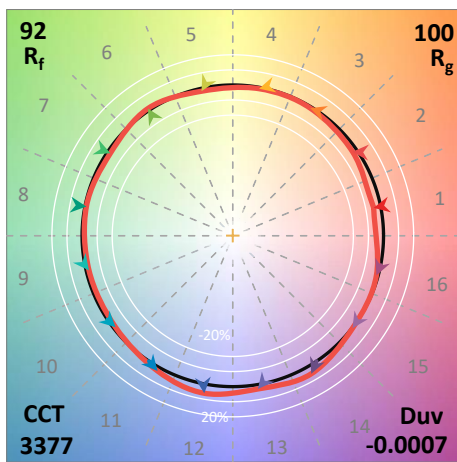
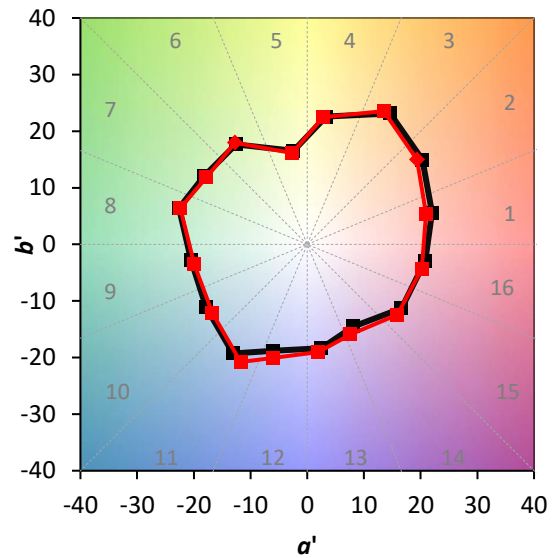
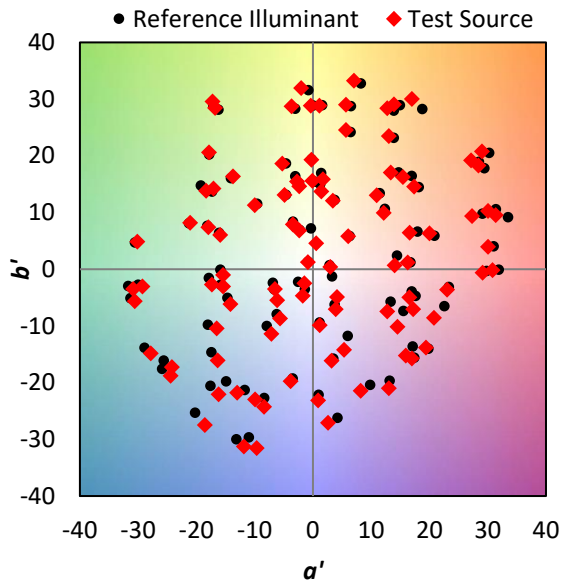
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 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

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

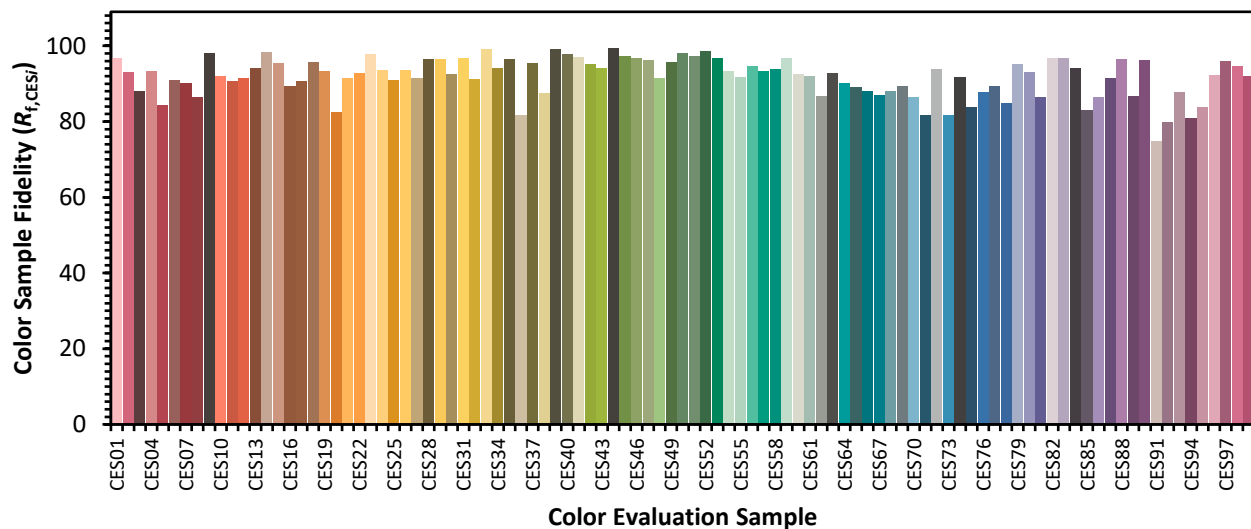


Color Vector Graphics

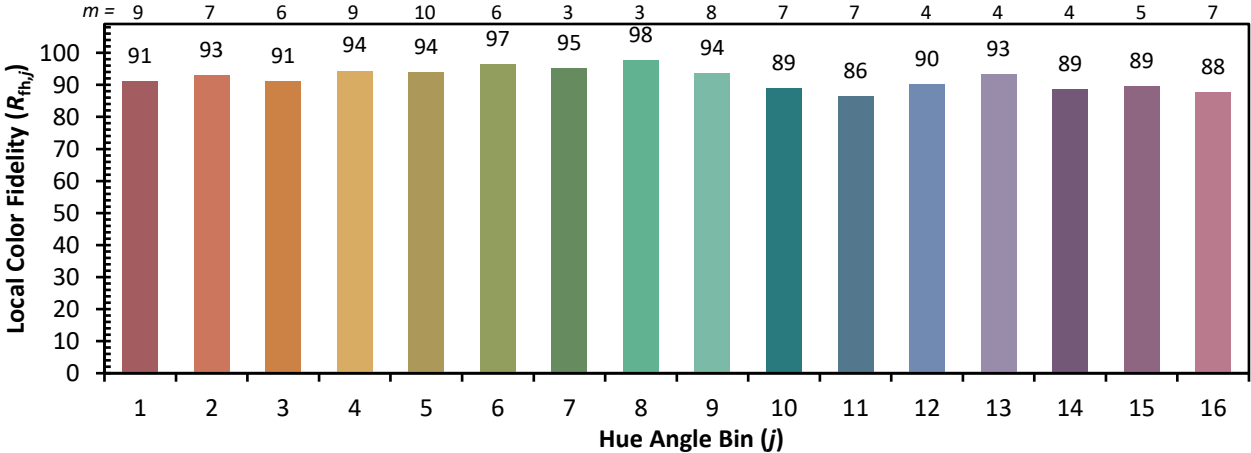
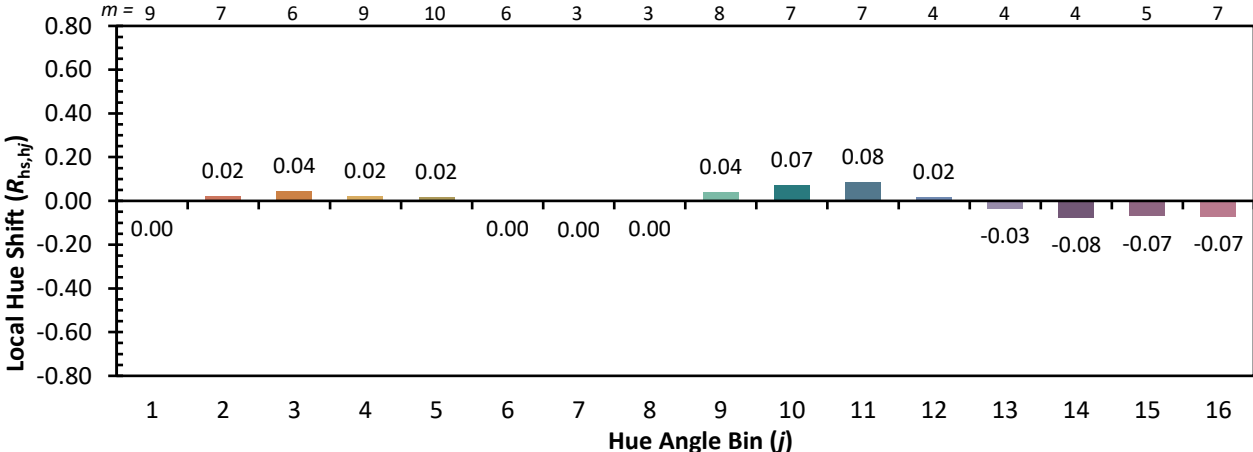
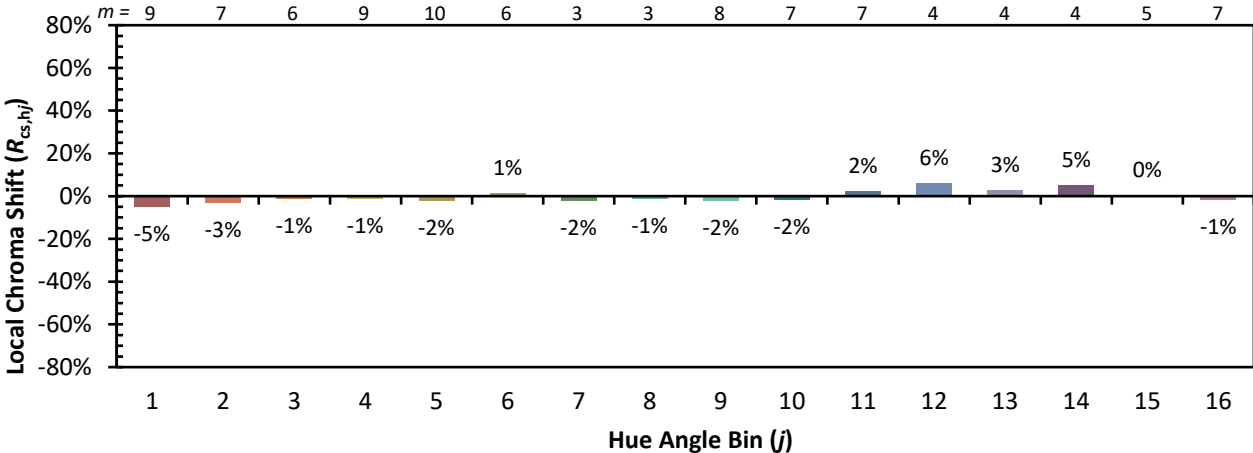


Individual Sample Fidelity Index ($R_{f,i}$)

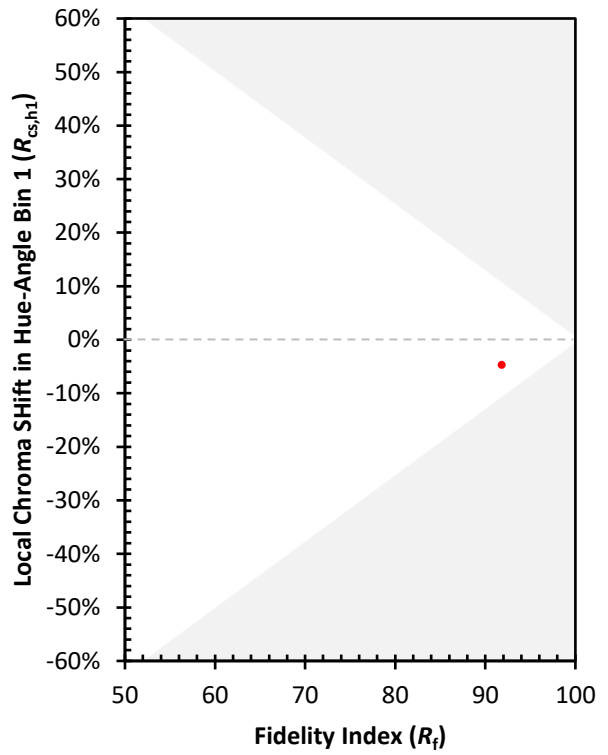
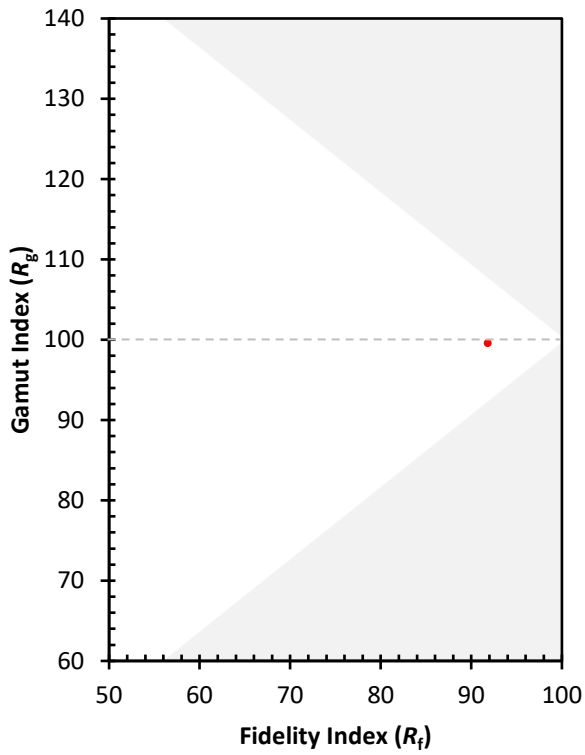
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 88 |
| CES02 = 62 | CES27 = 92 | CES52 = 99 | CES77 = 89 |
| CES03 = 31 | CES28 = 96 | CES53 = 97 | CES78 = 85 |
| CES04 = 70 | CES29 = 96 | CES54 = 93 | CES79 = 95 |
| CES05 = 50 | CES30 = 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)