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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501841

Luminaire Tested: GSS-SB4A-750-U-T2LG-HSS

Issue Date: 07/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501841 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4A-750-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (104) 5000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 14944.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 131.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

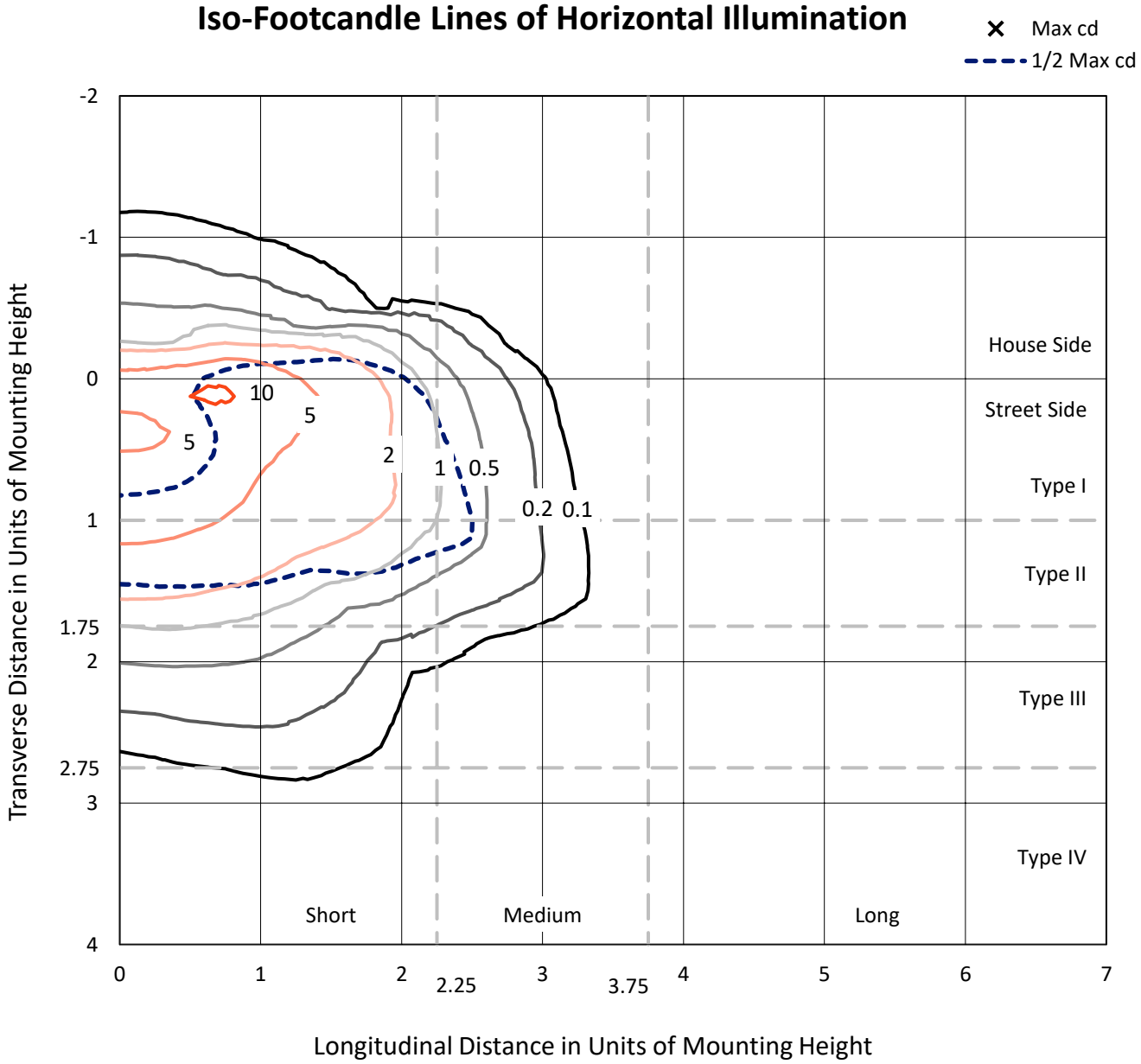
| | |
|---|---|
| Input Watts (W): | 114 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.2% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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REPORT NUMBER: P1501841
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## Iso-Footcandle Lines of Horizontal Illumination



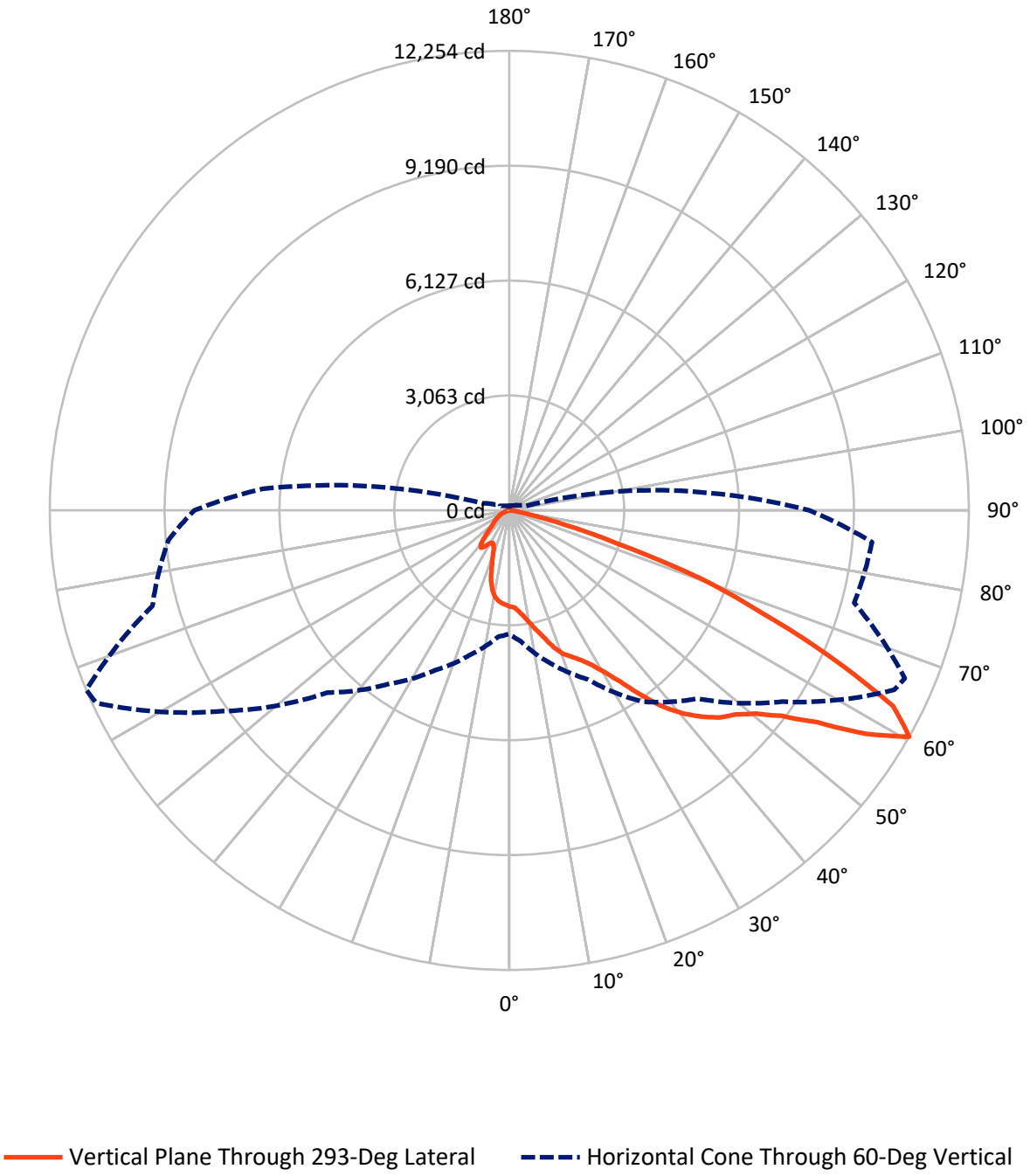

Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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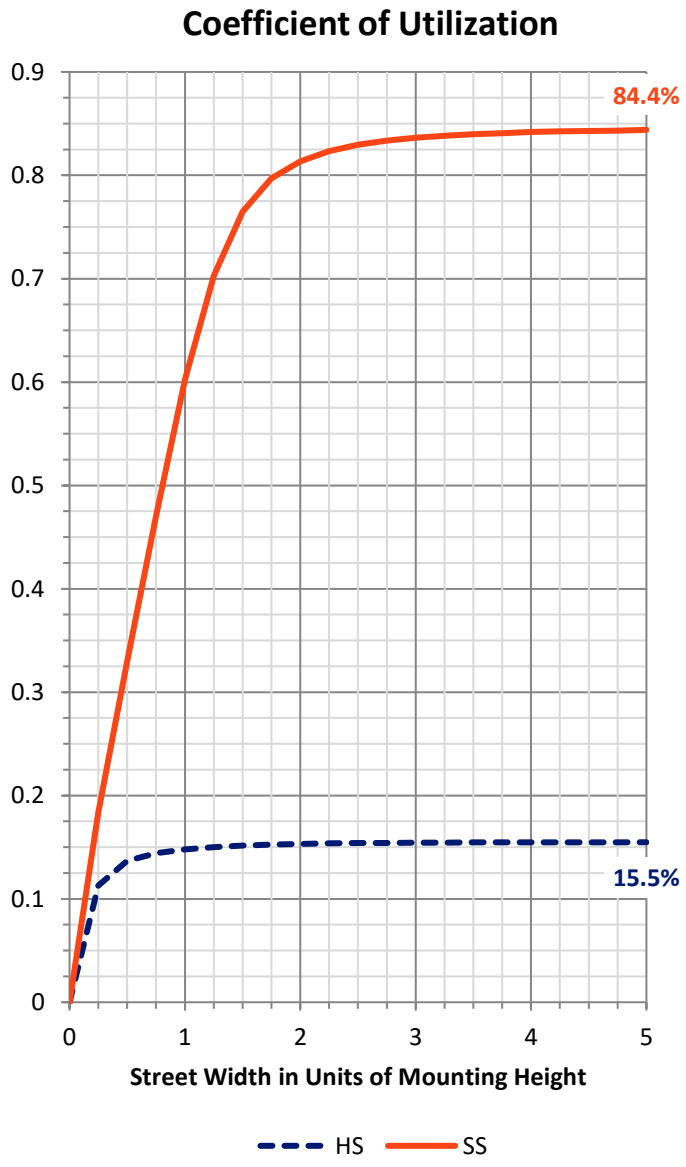
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2331.6 | 0.0 | 2331.6 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 12612.4 | 0.0 | 12612.4 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 14944.1 | 0.0 | 14944.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 231.9 | 1.6 |
| 10°-20° | 584.1 | 3.9 |
| 20°-30° | 1090.4 | 7.3 |
| 30°-40° | 2162.3 | 14.5 |
| 40°-50° | 3447.6 | 23.1 |
| 50°-60° | 4119.0 | 27.6 |
| 60°-70° | 2700.2 | 18.1 |
| 70°-80° | 565.7 | 3.8 |
| 80°-90° | 42.8 | 0.3 |
| 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°-90° | 14944.1 | 100.0 |
| 0°-180° | 14944.1 | 100.0 |



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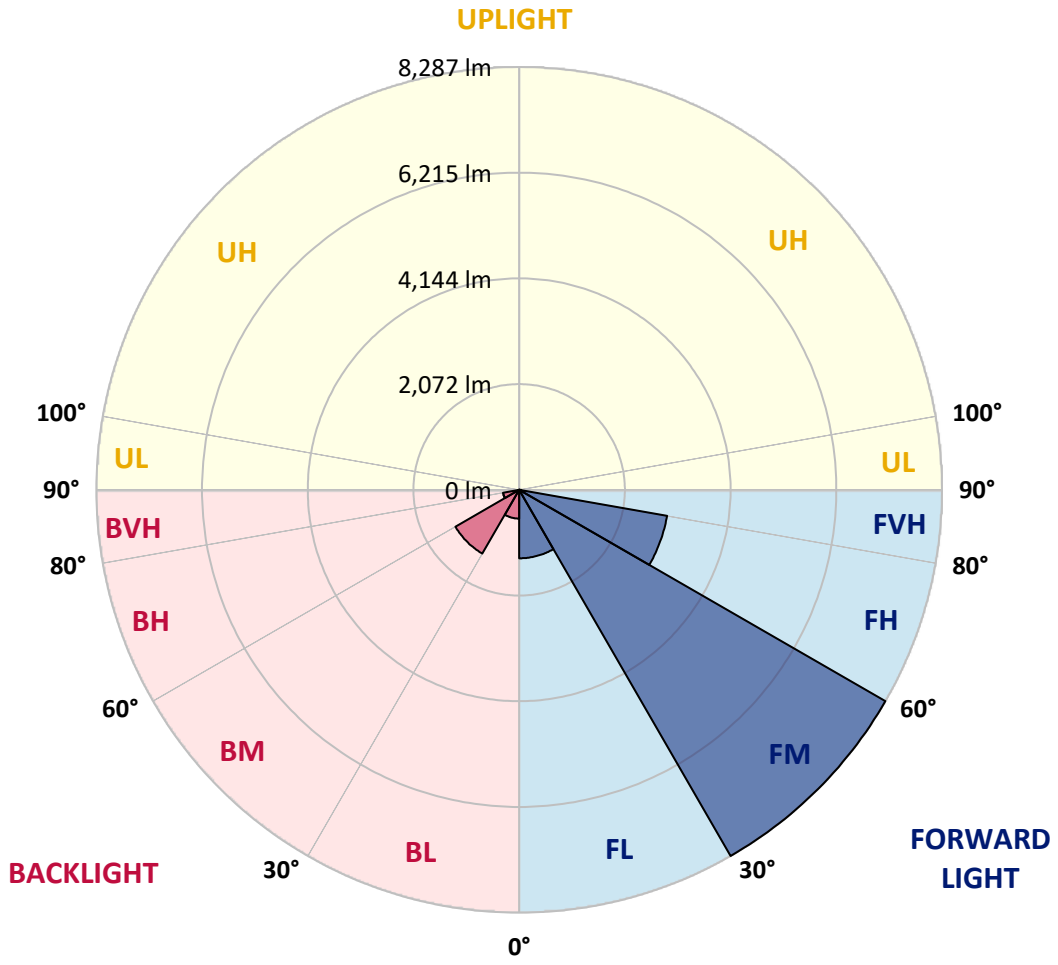
Scaled Data Report

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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1342.3 | 9.0 | | | |
| FM | (30°-60°) | 8287.0 | 55.5 | | | |
| FH | (60°-80°) | 2943.9 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 39.2 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 564.1 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1441.9 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 322.1 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 |
| 2.5° | 2691.0 | 2682.6 | 2670.1 | 2674.3 | 2670.1 | 2653.3 | 2628.2 | 2607.3 | 2624.0 | 2598.9 | 2582.2 |
| 5° | 2770.5 | 2770.5 | 2762.1 | 2762.1 | 2766.3 | 2758.0 | 2741.2 | 2711.9 | 2716.1 | 2695.2 | 2640.8 |
| 7.5° | 2770.5 | 2758.0 | 2778.9 | 2799.8 | 2837.5 | 2858.4 | 2866.8 | 2850.0 | 2858.4 | 2816.5 | 2745.4 |
| 10° | 2607.3 | 2598.9 | 2653.3 | 2732.8 | 2841.7 | 2937.9 | 3000.7 | 3004.9 | 3017.4 | 2975.6 | 2891.9 |
| 12.5° | 2259.9 | 2243.2 | 2352.0 | 2502.7 | 2724.5 | 2946.3 | 3122.1 | 3189.0 | 3218.3 | 3201.6 | 3084.4 |
| 15° | 1937.7 | 1958.6 | 2033.9 | 2197.2 | 2494.3 | 2833.3 | 3189.0 | 3410.8 | 3452.7 | 3473.6 | 3335.5 |
| 17.5° | 1904.2 | 1908.4 | 1933.5 | 2013.0 | 2239.0 | 2649.1 | 3197.4 | 3641.0 | 3699.6 | 3791.7 | 3603.3 |
| 20° | 1996.3 | 1987.9 | 2013.0 | 2038.1 | 2146.9 | 2485.9 | 3117.9 | 3862.8 | 3975.8 | 4172.5 | 3967.4 |
| 22.5° | 2167.9 | 2167.9 | 2180.4 | 2197.2 | 2251.6 | 2473.4 | 3084.4 | 4067.9 | 4260.4 | 4662.2 | 4423.6 |
| 25° | 2456.6 | 2423.2 | 2431.5 | 2410.6 | 2456.6 | 2624.0 | 3159.7 | 4231.1 | 4494.8 | 5206.2 | 4967.7 |
| 27.5° | 2904.4 | 2917.0 | 2841.7 | 2728.7 | 2753.8 | 2896.1 | 3343.9 | 4415.2 | 4737.5 | 5771.2 | 5520.1 |
| 30° | 3523.8 | 3502.9 | 3456.9 | 3235.1 | 3134.6 | 3260.2 | 3682.9 | 4716.6 | 5063.9 | 6486.8 | 6256.7 |
| 32.5° | 4009.3 | 4067.9 | 3988.4 | 3833.5 | 3678.7 | 3716.3 | 4160.0 | 5202.0 | 5461.5 | 7143.9 | 7018.4 |
| 35° | 4595.2 | 4595.2 | 4611.9 | 4394.3 | 4289.7 | 4281.3 | 4758.4 | 5729.4 | 5988.8 | 7738.2 | 7826.1 |
| 37.5° | 5386.2 | 5331.8 | 5239.7 | 4997.0 | 4917.4 | 5022.1 | 5319.2 | 6273.4 | 6553.8 | 8219.5 | 8453.8 |
| 40° | 6051.6 | 6089.3 | 6076.7 | 5725.2 | 5570.3 | 5683.3 | 5947.0 | 6738.0 | 6955.6 | 8529.2 | 8960.2 |
| 42.5° | 6704.5 | 6725.4 | 6671.0 | 6503.6 | 6277.6 | 6286.0 | 6503.6 | 7089.5 | 7311.3 | 8826.3 | 9437.3 |
| 45° | 7194.1 | 7189.9 | 7152.3 | 7110.4 | 6976.5 | 6838.4 | 6876.1 | 7478.7 | 7671.2 | 8922.6 | 9696.8 |
| 47.5° | 7349.0 | 7382.5 | 7415.9 | 7533.1 | 7625.2 | 7407.6 | 7215.0 | 7688.0 | 7863.7 | 8905.8 | 9793.0 |
| 50° | 7206.7 | 7277.8 | 7441.0 | 7616.8 | 7930.7 | 7914.0 | 7499.6 | 7914.0 | 8085.5 | 8997.9 | 9906.0 |
| 52.5° | 6888.6 | 6959.8 | 7177.4 | 7495.4 | 7968.4 | 8202.7 | 8027.0 | 8294.8 | 8495.7 | 9232.2 | 10140.4 |
| 55° | 6147.9 | 6177.2 | 6625.0 | 7043.5 | 7780.0 | 8077.2 | 8591.9 | 8939.3 | 9106.7 | 9516.8 | 10450.1 |
| 57.5° | 5005.3 | 5076.5 | 5515.9 | 6198.1 | 7252.7 | 7746.6 | 8914.2 | 10040.0 | 10035.8 | 9788.9 | 10517.1 |
| 60° | *3293.6* | *3502.9* | *4218.5* | *4971.9* | *6231.6* | *7097.9* | *8893.3* | *11329.0* | *11458.7* | *9521.0* | *9709.3* |
| 62.5° | 2515.2 | 2603.1 | 3009.1 | 3636.8 | 4611.9 | 5884.2 | 8755.2 | 11714.0 | 11814.4 | 8801.2 | 8499.9 |
| 65° | 1891.6 | 2000.5 | 2389.7 | 2950.5 | 3256.0 | 3988.4 | 7851.2 | 10182.3 | 10320.4 | 7855.4 | 6608.2 |
| 67.5° | 1159.3 | 1247.1 | 1766.1 | 2423.2 | 2465.0 | 2477.6 | 5298.3 | 7713.1 | 7763.3 | 6336.2 | 4448.7 |
| 70° | 774.2 | 862.1 | 1222.0 | 1862.4 | 1962.8 | 1427.1 | 2908.6 | 5838.2 | 5834.0 | 4335.7 | 2703.6 |
| 72.5° | 447.8 | 489.7 | 774.2 | 1372.7 | 1544.3 | 908.2 | 1452.2 | 3712.2 | 3548.9 | 2038.1 | 1263.9 |
| 75° | 255.3 | 284.6 | 426.9 | 883.0 | 1083.9 | 577.5 | 573.4 | 1987.9 | 1757.7 | 1050.5 | 690.5 |
| 77.5° | 154.8 | 167.4 | 234.4 | 577.5 | 652.9 | 389.2 | 318.1 | 924.9 | 891.4 | 615.2 | 364.1 |
| 80° | 75.3 | 87.9 | 142.3 | 339.0 | 418.5 | 209.3 | 192.5 | 364.1 | 389.2 | 339.0 | 192.5 |
| 82.5° | 25.1 | 33.5 | 79.5 | 129.7 | 272.0 | 83.7 | 79.5 | 200.9 | 213.4 | 200.9 | 92.1 |
| 85° | 12.6 | 16.7 | 37.7 | 41.9 | 104.6 | 41.9 | 29.3 | 87.9 | 108.8 | 67.0 | 37.7 |
| 87.5° | 0.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 8.4 | 8.4 | 8.4 | 8.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 |
| 2.5° | 2569.6 | 2561.3 | 2544.5 | 2515.2 | 2511.0 | 2490.1 | 2456.6 | 2435.7 | 2419.0 | 2431.5 | 2435.7 |
| 5° | 2615.7 | 2594.7 | 2544.5 | 2465.0 | 2381.3 | 2297.6 | 2218.1 | 2126.0 | 2063.2 | 2054.9 | 2038.1 |
| 7.5° | 2699.4 | 2657.5 | 2548.7 | 2393.9 | 2180.4 | 1979.5 | 1745.2 | 1519.2 | 1406.2 | 1389.4 | 1351.8 |
| 10° | 2833.3 | 2762.1 | 2582.2 | 2268.3 | 1858.2 | 1439.7 | 1083.9 | 841.2 | 703.1 | 678.0 | 686.4 |
| 12.5° | 2992.3 | 2891.9 | 2586.4 | 2054.9 | 1414.6 | 891.4 | 615.2 | 523.1 | 493.8 | 481.3 | 481.3 |
| 15° | 3197.4 | 3050.9 | 2582.2 | 1778.7 | 954.2 | 573.4 | 493.8 | 456.2 | 443.6 | 435.2 | 435.2 |
| 17.5° | 3456.9 | 3264.3 | 2552.9 | 1364.3 | 644.5 | 498.0 | 452.0 | 422.7 | 406.0 | 401.8 | 401.8 |
| 20° | 3762.4 | 3502.9 | 2485.9 | 1017.0 | 539.9 | 464.5 | 426.9 | 389.2 | 376.7 | 368.3 | 368.3 |
| 22.5° | 4151.6 | 3791.7 | 2356.2 | 791.0 | 510.6 | 443.6 | 401.8 | 359.9 | 347.4 | 339.0 | 339.0 |
| 25° | 4603.6 | 4160.0 | 2184.6 | 711.5 | 506.4 | 426.9 | 376.7 | 334.8 | 322.2 | 318.1 | 313.9 |
| 27.5° | 5139.3 | 4553.3 | 2025.6 | 715.6 | 514.8 | 414.3 | 351.5 | 313.9 | 301.3 | 288.8 | 293.0 |
| 30° | 5771.2 | 4959.3 | 1895.8 | 765.9 | 523.1 | 401.8 | 334.8 | 301.3 | 288.8 | 272.0 | 272.0 |
| 32.5° | 6394.8 | 5436.4 | 1883.3 | 857.9 | 552.4 | 393.4 | 318.1 | 284.6 | 272.0 | 259.5 | 259.5 |
| 35° | 7035.1 | 5871.6 | 1954.4 | 979.3 | 611.0 | 380.8 | 297.1 | 267.8 | 255.3 | 246.9 | 242.7 |
| 37.5° | 7646.1 | 6219.0 | 2021.4 | 1054.6 | 577.5 | 326.4 | 272.0 | 246.9 | 234.4 | 217.6 | 217.6 |
| 40° | 8052.1 | 6407.3 | 2033.9 | 996.0 | 477.1 | 293.0 | 246.9 | 221.8 | 205.1 | 196.7 | 192.5 |
| 42.5° | 8349.2 | 6528.7 | 1891.6 | 807.7 | 414.3 | 267.8 | 226.0 | 200.9 | 188.3 | 180.0 | 180.0 |
| 45° | 8470.6 | 6486.8 | 1648.9 | 615.2 | 380.8 | 246.9 | 205.1 | 184.1 | 175.8 | 167.4 | 167.4 |
| 47.5° | 8453.8 | 6294.3 | 1402.0 | 493.8 | 347.4 | 226.0 | 192.5 | 175.8 | 167.4 | 159.0 | 154.8 |
| 50° | 8424.5 | 6114.4 | 1150.9 | 439.4 | 309.7 | 213.4 | 180.0 | 167.4 | 154.8 | 146.5 | 142.3 |
| 52.5° | 8617.0 | 6055.8 | 954.2 | 401.8 | 288.8 | 205.1 | 175.8 | 159.0 | 146.5 | 138.1 | 138.1 |
| 55° | 8809.6 | 6080.9 | 749.1 | 376.7 | 267.8 | 200.9 | 171.6 | 154.8 | 142.3 | 129.7 | 129.7 |
| 57.5° | 8797.0 | 5972.1 | 569.2 | 351.5 | 251.1 | 196.7 | 167.4 | 150.7 | 129.7 | 121.4 | 121.4 |
| 60° | *7997.7* | *5327.6* | *443.6* | *322.2* | *230.2* | *184.1* | *154.8* | *142.3* | *121.4* | *108.8* | *108.8* |
| 62.5° | 6763.1 | 4189.2 | 364.1 | 284.6 | 205.1 | 167.4 | 142.3 | 129.7 | 108.8 | 87.9 | 87.9 |
| 65° | 4997.0 | 3021.6 | 293.0 | 246.9 | 188.3 | 146.5 | 129.7 | 113.0 | 87.9 | 71.1 | 67.0 |
| 67.5° | 3381.5 | 1858.2 | 234.4 | 205.1 | 167.4 | 125.6 | 108.8 | 96.3 | 79.5 | 58.6 | 54.4 |
| 70° | 2004.6 | 987.7 | 171.6 | 142.3 | 125.6 | 92.1 | 92.1 | 83.7 | 67.0 | 50.2 | 46.0 |
| 72.5° | 954.2 | 343.2 | 125.6 | 104.6 | 96.3 | 67.0 | 71.1 | 71.1 | 54.4 | 37.7 | 33.5 |
| 75° | 485.5 | 167.4 | 83.7 | 75.3 | 62.8 | 50.2 | 58.6 | 54.4 | 37.7 | 25.1 | 25.1 |
| 77.5° | 276.2 | 117.2 | 58.6 | 50.2 | 41.9 | 33.5 | 37.7 | 33.5 | 20.9 | 12.6 | 12.6 |
| 80° | 154.8 | 83.7 | 37.7 | 33.5 | 25.1 | 20.9 | 20.9 | 16.7 | 12.6 | 4.2 | 4.2 |
| 82.5° | 58.6 | 50.2 | 25.1 | 16.7 | 12.6 | 12.6 | 8.4 | 8.4 | 4.2 | 0.0 | 0.0 |
| 85° | 25.1 | 12.6 | 12.6 | 8.4 | 8.4 | 4.2 | 4.2 | 4.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 |
| 2.5° | 2402.2 | 2410.6 | 2419.0 | 2452.4 | 2460.8 | 2485.9 | 2506.9 | 2532.0 | 2536.1 | 2569.6 | 2569.6 |
| 5° | 2071.6 | 2067.4 | 2138.6 | 2243.2 | 2310.2 | 2402.2 | 2473.4 | 2548.7 | 2590.6 | 2645.0 | 2670.1 |
| 7.5° | 1372.7 | 1477.3 | 1636.4 | 1820.5 | 2059.1 | 2280.9 | 2448.3 | 2594.7 | 2695.2 | 2758.0 | 2783.1 |
| 10° | 682.2 | 740.8 | 908.2 | 1209.5 | 1615.4 | 2067.4 | 2423.2 | 2695.2 | 2858.4 | 2929.5 | 2975.6 |
| 12.5° | 481.3 | 493.8 | 523.1 | 686.4 | 1075.6 | 1715.9 | 2343.6 | 2804.0 | 3030.0 | 3163.9 | 3222.5 |
| 15° | 431.1 | 439.4 | 452.0 | 498.0 | 665.4 | 1280.6 | 2201.3 | 2925.4 | 3297.8 | 3452.7 | 3528.0 |
| 17.5° | 397.6 | 401.8 | 414.3 | 452.0 | 523.1 | 870.5 | 1971.2 | 3055.1 | 3620.1 | 3808.4 | 3950.7 |
| 20° | 368.3 | 368.3 | 380.8 | 426.9 | 485.5 | 669.6 | 1640.5 | 3201.6 | 4030.2 | 4302.2 | 4444.5 |
| 22.5° | 334.8 | 343.2 | 351.5 | 401.8 | 472.9 | 611.0 | 1330.9 | 3314.6 | 4486.4 | 4817.0 | 4984.4 |
| 25° | 309.7 | 318.1 | 326.4 | 376.7 | 460.4 | 611.0 | 1150.9 | 3385.7 | 4997.0 | 5390.4 | 5620.5 |
| 27.5° | 288.8 | 297.1 | 309.7 | 359.9 | 447.8 | 636.1 | 1079.7 | 3406.6 | 5553.6 | 6064.2 | 6373.9 |
| 30° | 272.0 | 280.4 | 293.0 | 347.4 | 456.2 | 665.4 | 1104.9 | 3377.3 | 6118.6 | 6758.9 | 7127.2 |
| 32.5° | 255.3 | 263.7 | 276.2 | 334.8 | 456.2 | 703.1 | 1188.6 | 3318.8 | 6666.8 | 7453.6 | 7905.6 |
| 35° | 242.7 | 246.9 | 251.1 | 301.3 | 414.3 | 698.9 | 1293.2 | 3260.2 | 7219.2 | 8139.9 | 8667.3 |
| 37.5° | 217.6 | 221.8 | 230.2 | 259.5 | 330.6 | 636.1 | 1314.1 | 3189.0 | 7654.5 | 8717.5 | 9299.2 |
| 40° | 192.5 | 200.9 | 209.3 | 238.5 | 276.2 | 514.8 | 1222.0 | 3038.4 | 7884.7 | 9161.1 | 9868.4 |
| 42.5° | 175.8 | 180.0 | 188.3 | 217.6 | 255.3 | 410.1 | 1025.3 | 2774.7 | 8089.7 | 9462.4 | 10282.7 |
| 45° | 163.2 | 167.4 | 175.8 | 196.7 | 238.5 | 355.7 | 807.7 | 2452.4 | 8106.5 | 9558.7 | 10483.6 |
| 47.5° | 150.7 | 154.8 | 159.0 | 180.0 | 230.2 | 318.1 | 619.4 | 2159.5 | 8102.3 | 9684.2 | 10655.2 |
| 50° | 142.3 | 146.5 | 154.8 | 171.6 | 217.6 | 284.6 | 510.6 | 1920.9 | 8278.1 | 9956.3 | 11002.5 |
| 52.5° | 138.1 | 138.1 | 150.7 | 167.4 | 205.1 | 259.5 | 426.9 | 1707.5 | 8370.1 | 10224.1 | 11253.6 |
| 55° | 129.7 | 133.9 | 142.3 | 159.0 | 192.5 | 246.9 | 364.1 | 1439.7 | 8412.0 | 10358.0 | 11299.7 |
| 57.5° | 121.4 | 125.6 | 138.1 | 150.7 | 184.1 | 234.4 | 313.9 | 1075.6 | 7813.5 | 9659.1 | 10529.6 |
| 60° | *108.8* | *117.2* | *133.9* | *146.5* | *171.6* | *213.4* | *276.2* | *728.2* | *6591.5* | *8395.2* | *9123.4* |
| 62.5° | 87.9 | 104.6 | 121.4 | 129.7 | 154.8 | 180.0 | 234.4 | 485.5 | 5264.8 | 6947.2 | 7775.8 |
| 65° | 67.0 | 87.9 | 100.4 | 113.0 | 129.7 | 150.7 | 196.7 | 330.6 | 3511.3 | 4674.7 | 5608.0 |
| 67.5° | 58.6 | 75.3 | 83.7 | 92.1 | 108.8 | 129.7 | 159.0 | 230.2 | 2130.2 | 2808.2 | 3728.9 |
| 70° | 46.0 | 62.8 | 71.1 | 67.0 | 83.7 | 100.4 | 113.0 | 154.8 | 1088.1 | 1523.4 | 2121.8 |
| 72.5° | 33.5 | 50.2 | 54.4 | 54.4 | 50.2 | 71.1 | 83.7 | 108.8 | 472.9 | 740.8 | 962.6 |
| 75° | 25.1 | 33.5 | 37.7 | 33.5 | 29.3 | 46.0 | 58.6 | 71.1 | 309.7 | 443.6 | 560.8 |
| 77.5° | 12.6 | 12.6 | 20.9 | 20.9 | 12.6 | 25.1 | 29.3 | 41.9 | 175.8 | 259.5 | 322.2 |
| 80° | 4.2 | 0.0 | 0.0 | 4.2 | 0.0 | 8.4 | 12.6 | 20.9 | 92.1 | 138.1 | 200.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 46.0 | 41.9 | 104.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 25.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1501841
CATALOG NUMBER: GSS-SB4A-750-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2561.3 | *2561.3* | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 | 2561.3 |
| 2.5° | 2590.6 | *2590.6* | 2607.3 | 2632.4 | 2645.0 | 2653.3 | 2657.5 | 2665.9 | 2699.4 | 2691.0 |
| 5° | 2699.4 | *2707.7* | 2720.3 | 2745.4 | 2774.7 | 2766.3 | 2766.3 | 2766.3 | 2787.3 | 2770.5 |
| 7.5° | 2841.7 | *2866.8* | 2871.0 | 2900.2 | 2879.3 | 2837.5 | 2812.4 | 2774.7 | 2770.5 | 2770.5 |
| 10° | 3071.8 | *3063.5* | 3063.5 | 3025.8 | 2950.5 | 2829.1 | 2720.3 | 2645.0 | 2603.1 | 2607.3 |
| 12.5° | 3318.8 | *3285.3* | 3289.5 | 3151.4 | 2937.9 | 2670.1 | 2448.3 | 2285.0 | 2272.5 | 2259.9 |
| 15° | 3624.3 | *3536.4* | 3519.6 | 3201.6 | 2749.6 | 2339.5 | 2121.8 | 1992.1 | 1950.2 | 1937.7 |
| 17.5° | 4059.5 | *3837.7* | 3758.2 | 3113.7 | 2502.7 | 2134.4 | 1971.2 | 1912.6 | 1908.4 | 1904.2 |
| 20° | 4519.9 | *4080.4* | 3929.8 | 2983.9 | 2419.0 | 2138.6 | 2017.2 | 2000.5 | 1992.1 | 1996.3 |
| 22.5° | 5055.6 | *4235.3* | 4042.8 | 3004.9 | 2494.3 | 2276.7 | 2180.4 | 2167.9 | 2159.5 | 2167.9 |
| 25° | 5608.0 | *4415.2* | 4176.7 | 3172.3 | 2720.3 | 2532.0 | 2419.0 | 2393.9 | 2419.0 | 2456.6 |
| 27.5° | 6164.6 | *4658.0* | 4440.4 | 3502.9 | 3084.4 | 2879.3 | 2770.5 | 2862.6 | 2900.2 | 2904.4 |
| 30° | 6658.4 | *4997.0* | 4796.1 | 3967.4 | 3498.7 | 3293.6 | 3314.6 | 3431.8 | 3477.8 | 3523.8 |
| 32.5° | 7110.4 | *5449.0* | 5294.1 | 4494.8 | 4034.4 | 3913.0 | 3900.5 | 3988.4 | 4038.6 | 4009.3 |
| 35° | 7566.6 | *6039.0* | 5888.4 | 5068.1 | 4691.5 | 4591.0 | 4486.4 | 4658.0 | 4641.2 | 4595.2 |
| 37.5° | 7997.7 | *6633.3* | 6495.2 | 5683.3 | 5294.1 | 5118.3 | 5101.6 | 5256.4 | 5394.5 | 5386.2 |
| 40° | 8307.4 | *7114.6* | 6947.2 | 6294.3 | 5926.0 | 5775.4 | 5863.3 | 6131.1 | 6097.6 | 6051.6 |
| 42.5° | 8591.9 | *7524.7* | 7374.1 | 6830.0 | 6445.0 | 6512.0 | 6591.5 | 6771.4 | 6750.5 | 6704.5 |
| 45° | 8725.9 | *7876.3* | 7746.6 | 7236.0 | 7047.6 | 7261.1 | 7256.9 | 7323.9 | 7210.9 | 7194.1 |
| 47.5° | 8914.2 | *8127.4* | 7993.5 | 7600.1 | 7767.5 | 7855.4 | 7608.4 | 7537.3 | 7432.7 | 7349.0 |
| 50° | 9261.5 | *8516.6* | 8382.7 | 8152.5 | 8294.8 | 8022.8 | 7721.4 | 7566.6 | 7353.2 | 7206.7 |
| 52.5° | 9667.5 | *9106.7* | 8989.5 | 8897.4 | 8499.9 | 7939.1 | 7554.0 | 7273.6 | 7014.2 | 6888.6 |
| 55° | 10178.1 | *9977.2* | 9893.5 | 9387.1 | 8315.7 | 7595.9 | 7143.9 | 6620.8 | 6265.0 | 6147.9 |
| 57.5° | 10345.5 | *11253.6* | 11224.3 | 9466.6 | 7801.0 | 6972.3 | 6156.2 | 5449.0 | 5080.7 | 5005.3 |
| 60° | *9851.6* | *12253.9* | *12149.2* | *9332.7* | *6867.7* | *5658.2* | *4704.0* | *3980.0* | *3381.5* | *3293.6* |
| 62.5° | 9219.7 | *11488.0* | 11450.3 | 8658.9 | 5231.3 | 4055.3 | 3515.5 | 2837.5 | 2582.2 | 2515.2 |
| 65° | 7897.2 | *9399.7* | 9416.4 | 6947.2 | 3310.4 | 2912.8 | 2887.7 | 2255.7 | 1941.9 | 1891.6 |
| 67.5° | 6080.9 | *7210.9* | 7093.7 | 4369.2 | 1929.3 | 2331.1 | 2306.0 | 1648.9 | 1192.7 | 1159.3 |
| 70° | 3553.1 | *5369.4* | 5181.1 | 2272.5 | 1276.4 | 1946.1 | 1774.5 | 1159.3 | 811.9 | 774.2 |
| 72.5° | 1569.4 | *2954.7* | 3172.3 | 1000.2 | 899.8 | 1548.5 | 1280.6 | 711.5 | 456.2 | 447.8 |
| 75° | 870.5 | *1464.8* | 1531.7 | 435.2 | 631.9 | 1100.7 | 774.2 | 397.6 | 259.5 | 255.3 |
| 77.5° | 523.1 | *648.7* | 631.9 | 280.4 | 472.9 | 703.1 | 468.7 | 226.0 | 163.2 | 154.8 |
| 80° | 293.0 | *297.1* | 251.1 | 205.1 | 280.4 | 393.4 | 263.7 | 142.3 | 75.3 | 75.3 |
| 82.5° | 180.0 | *163.2* | 129.7 | 62.8 | 75.3 | 238.5 | 96.3 | 79.5 | 25.1 | 25.1 |
| 85° | 75.3 | *50.2* | 33.5 | 12.6 | 29.3 | 62.8 | 33.5 | 37.7 | 12.6 | 12.6 |
| 87.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

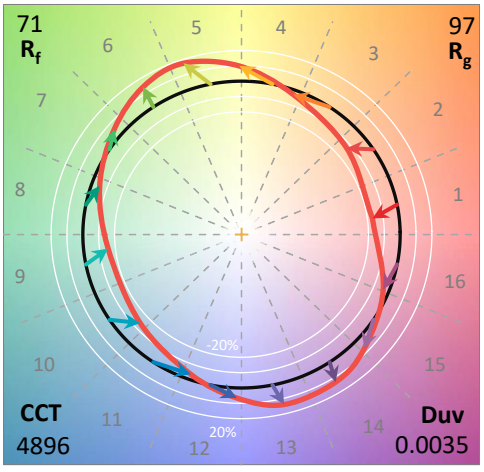
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-6 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-750-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 4896 |
| CIE u': | 0.2101 |
| CIE v': | 0.4901 |
| Duv: | 0.0035 |
| CIE x: | 0.3489 |
| CIE y: | 0.3618 |
| CIE z: | 0.2893 |
| Peak Wavelength (nm): | 443 |
| Dominant Wavelength (nm): | 570 |
| Purity: | 13.25435 |
| Rf: | 70.7 |
| Rg: | 96.8 |

| | |
|---|---|
| CRI (Ra): | 70.2 |
| R1: | 68.1 |
| R2: | 73.9 |
| R3: | 79.4 |
| R4: | 72.1 |
| R5: | 69.2 |
| R6: | 65.7 |
| R7: | 78.1 |
| R8: | 55.3 |
| R9: | -35.1 |
| R10: | 39.3 |
| R11: | 71.1 |
| R12: | 43.8 |
| R13: | 68.1 |
| R14: | 88.4 |
| R15: | 59.7 |




## Test Conditions

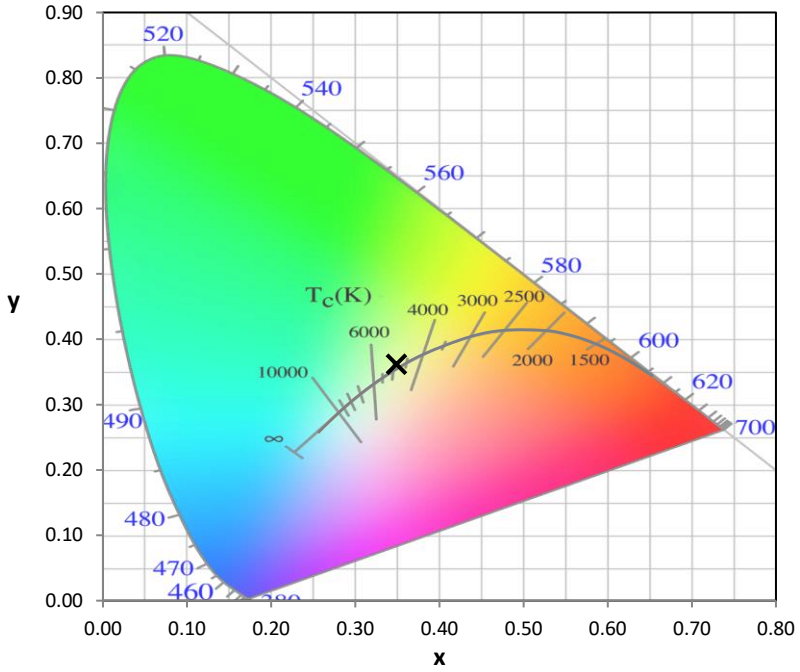
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-6

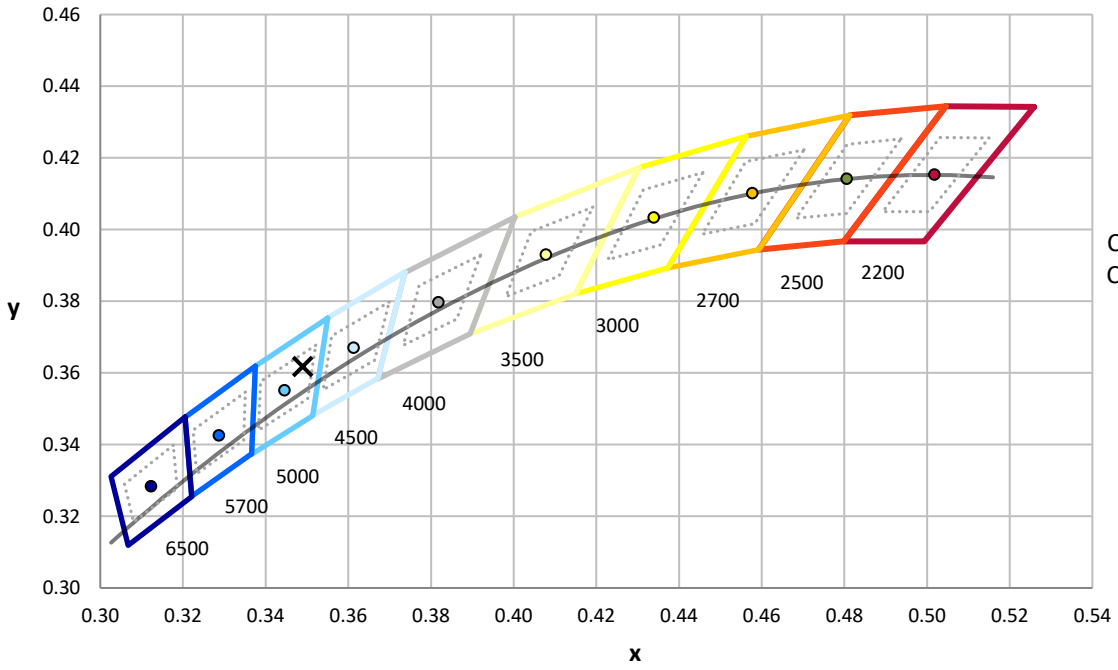
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-6

**CIE 1931 Chromaticity Diagram**




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

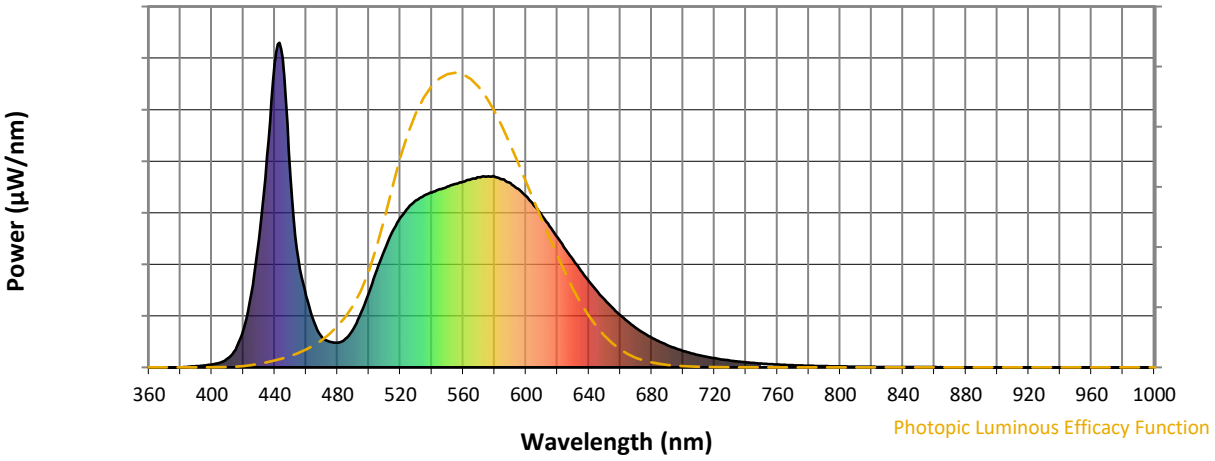



CCT = 4896K
CIE x = 0.3489
CIE y = 0.3618
Duv = 0.0035

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

## Photopic Flux vs. Wavelength

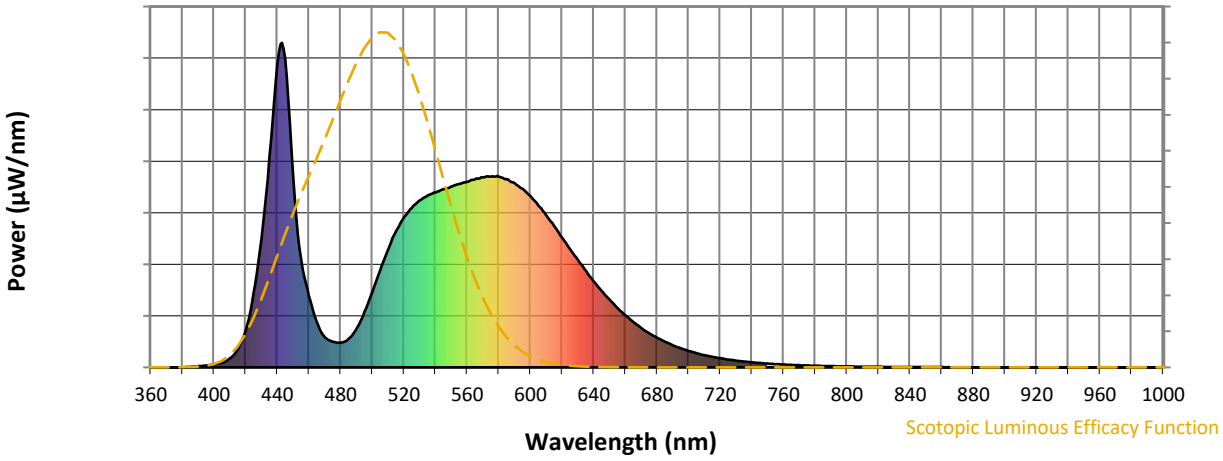



## Photopic Lumens: NR

| 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 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-6

## Scotopic Flux vs. Wavelength

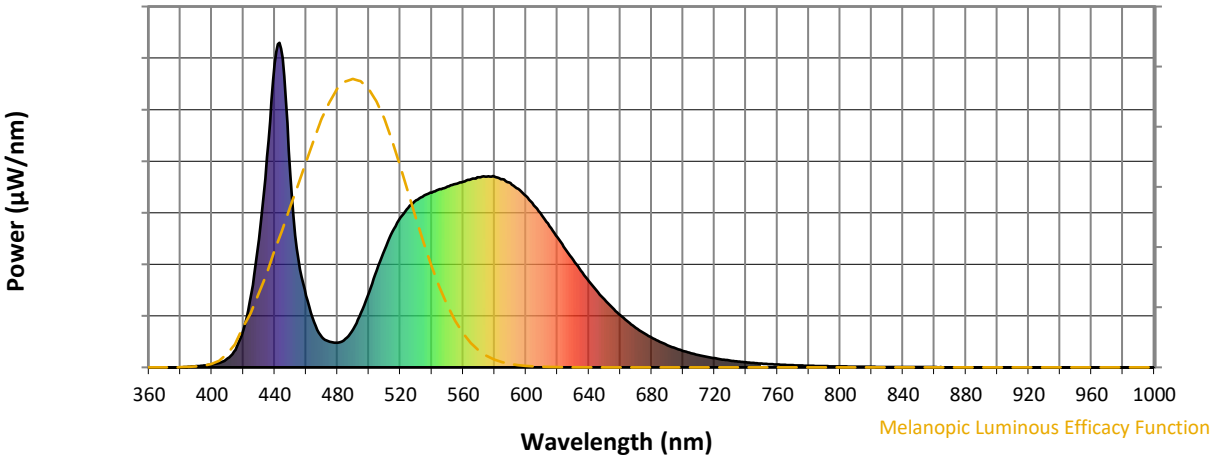



**Scotopic Lumens: NR** **S/P: 1.7**

| 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 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-6

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.37**

| 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 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

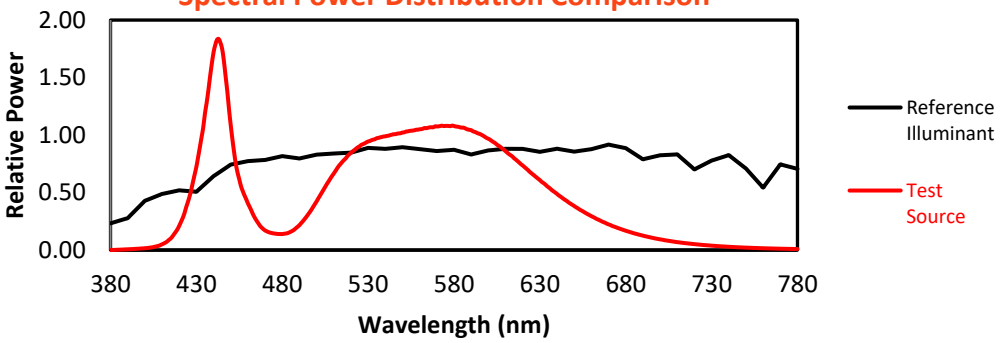
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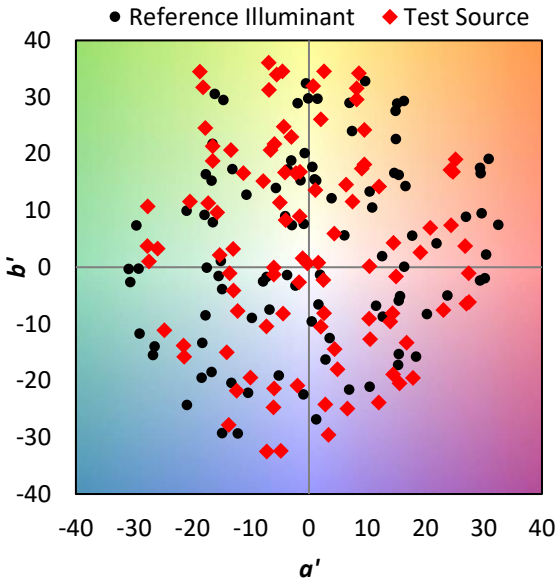
## Summary

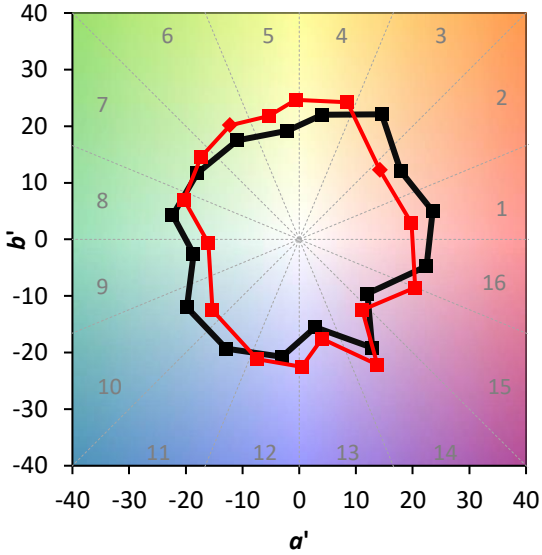
$R_f$ = 70.7
$R_g$ = 96.8
CIE $R_a$ = 70.2
$R_9$ = -35.1

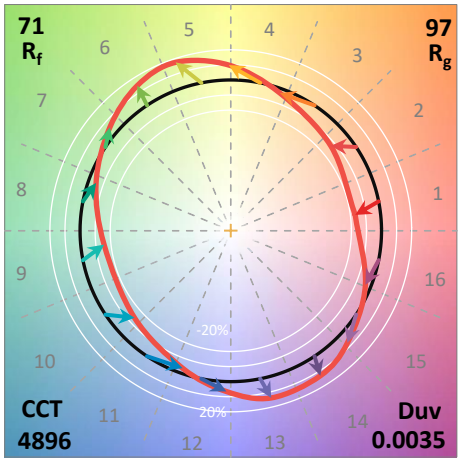
## Spectral Power Distribution Comparison

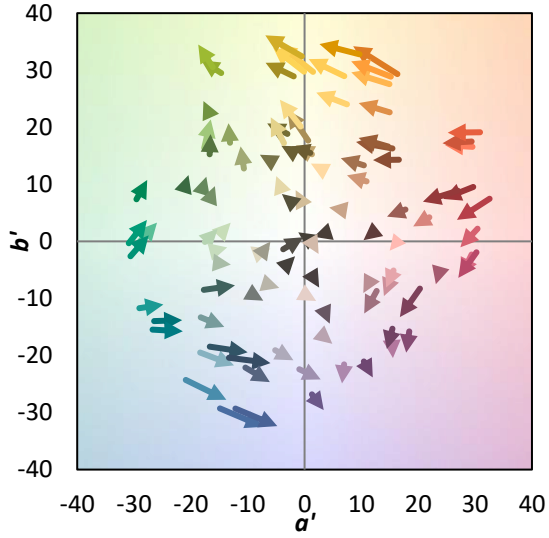



## Color Vector Graphics



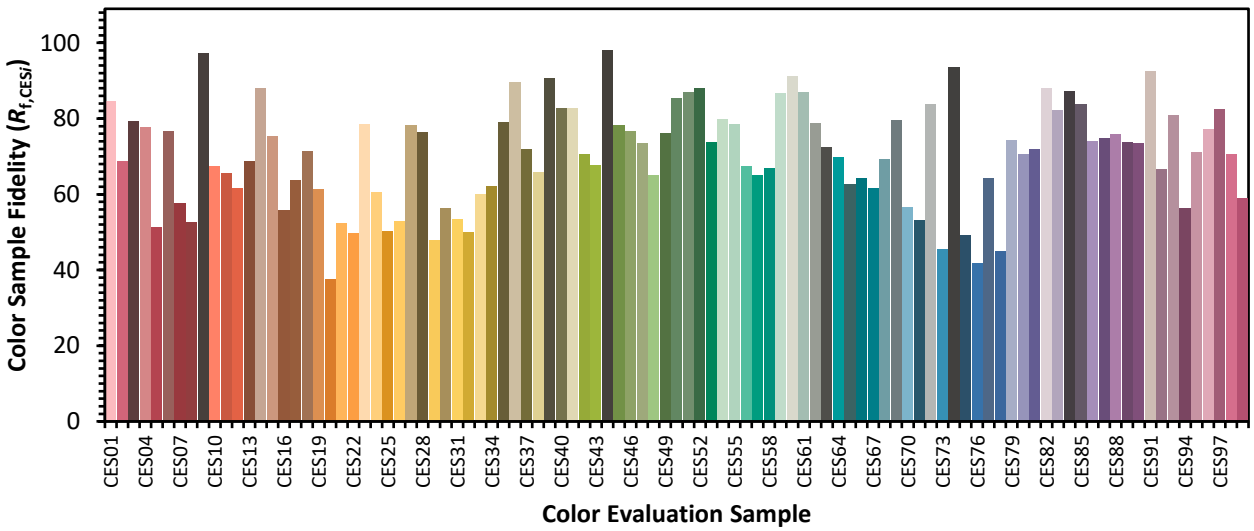



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**Individual Sample Fidelity Index ($R_{f,i}$)**

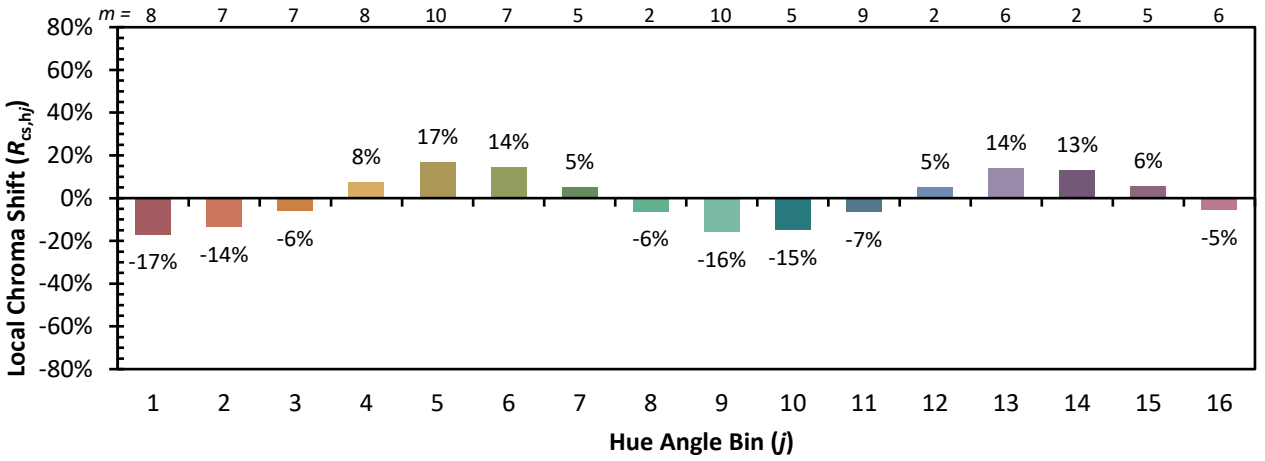
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 53 | CES51 = 87 | CES76 = 42 |
| CES02 = 59 | CES27 = 78 | CES52 = 88 | CES77 = 64 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 45 |
| CES04 = 69 | CES29 = 48 | CES54 = 80 | CES79 = 74 |
| CES05 = 46 | CES30 = 56 | CES55 = 79 | CES80 = 71 |
| CES06 = 50 | CES31 = 54 | CES56 = 68 | CES81 = 72 |
| CES07 = 39 | CES32 = 50 | CES57 = 65 | CES82 = 88 |
| CES08 = 38 | CES33 = 60 | CES58 = 67 | CES83 = 82 |
| CES09 = 29 | CES34 = 62 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 91 | CES85 = 84 |
| CES11 = 56 | CES36 = 90 | CES61 = 87 | CES86 = 74 |
| CES12 = 61 | CES37 = 72 | CES62 = 79 | CES87 = 75 |
| CES13 = 41 | CES38 = 66 | CES63 = 72 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 70 | CES89 = 74 |
| CES15 = 70 | CES40 = 83 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 83 | CES66 = 64 | CES91 = 92 |
| CES17 = 49 | CES42 = 70 | CES67 = 62 | CES92 = 67 |
| CES18 = 55 | CES43 = 68 | CES68 = 69 | CES93 = 81 |
| CES19 = 71 | CES44 = 98 | CES69 = 80 | CES94 = 56 |
| CES20 = 64 | CES45 = 78 | CES70 = 56 | CES95 = 71 |
| CES21 = 85 | CES46 = 77 | CES71 = 53 | CES96 = 77 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 46 | CES98 = 71 |
| CES24 = 90 | CES49 = 76 | CES74 = 94 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 | |

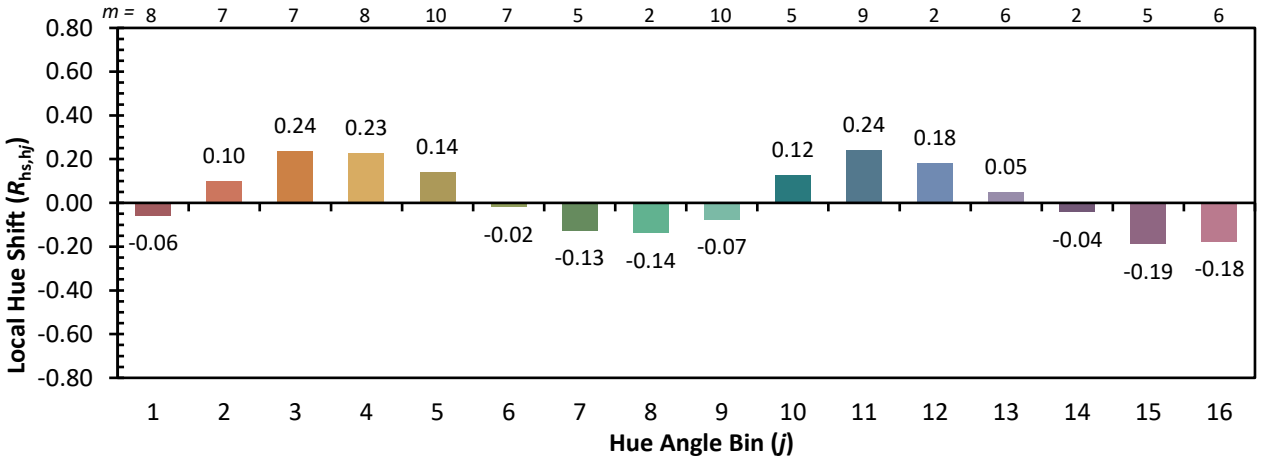


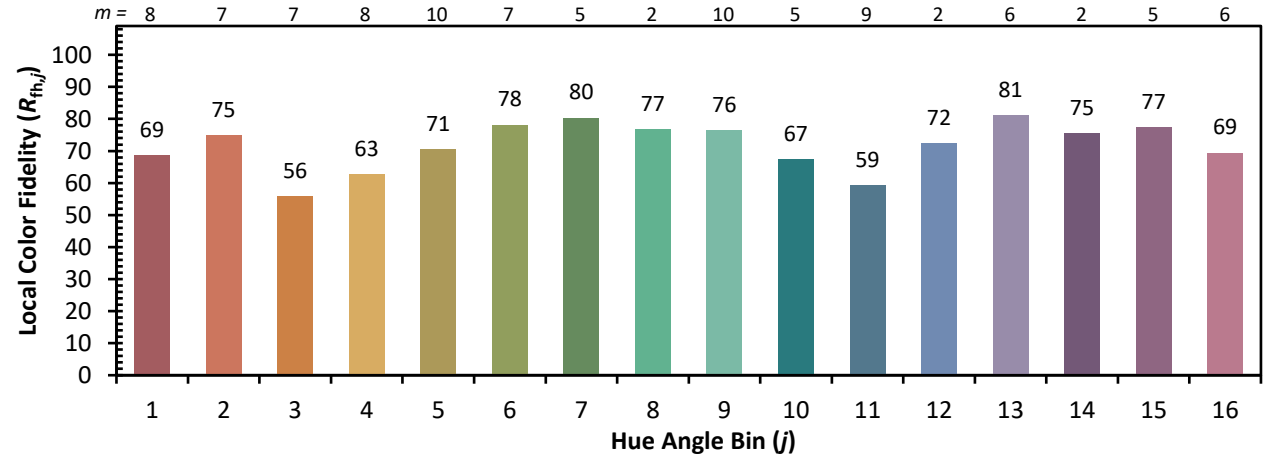
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## Color Rendition by Hue-Angle Bin



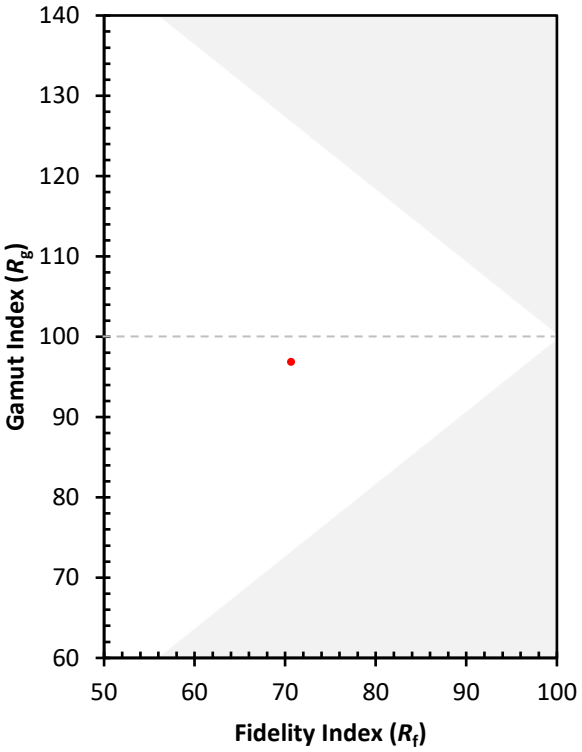



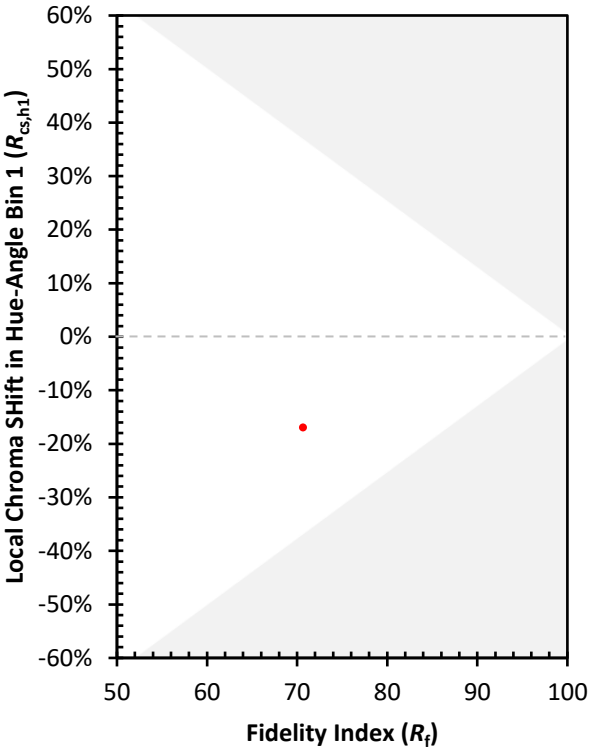



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## Measure Comparisons




(END OF REPORT)