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: P1501989

Luminaire Tested: GSS-SB5A-850-U-T2LG-HSS

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501989 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB5A-850-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 143W 80CRI 5000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (130) 5000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 16877.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 118.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

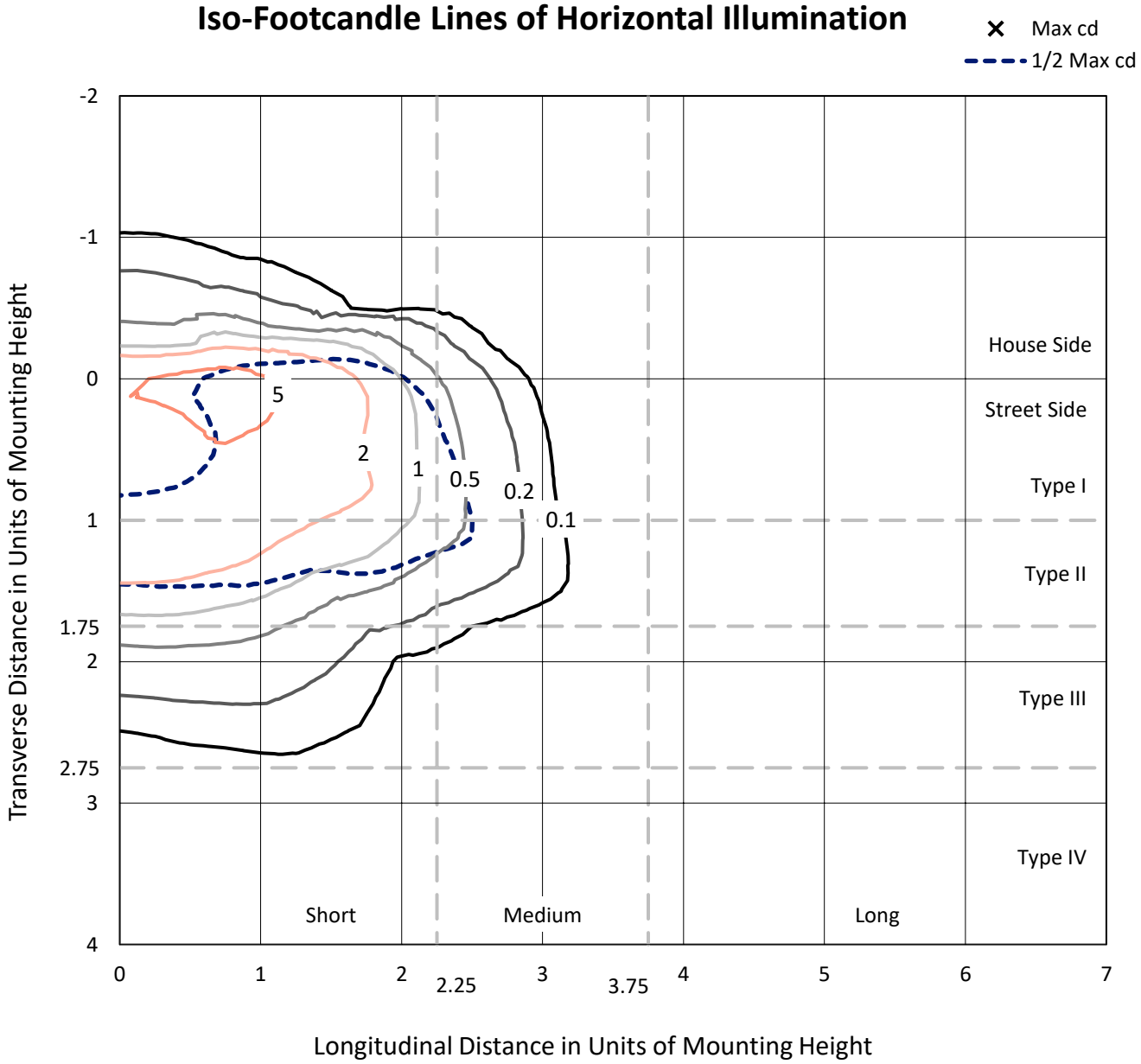
| | |
|---|---|
| Input Watts (W): | 143 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 10.5% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



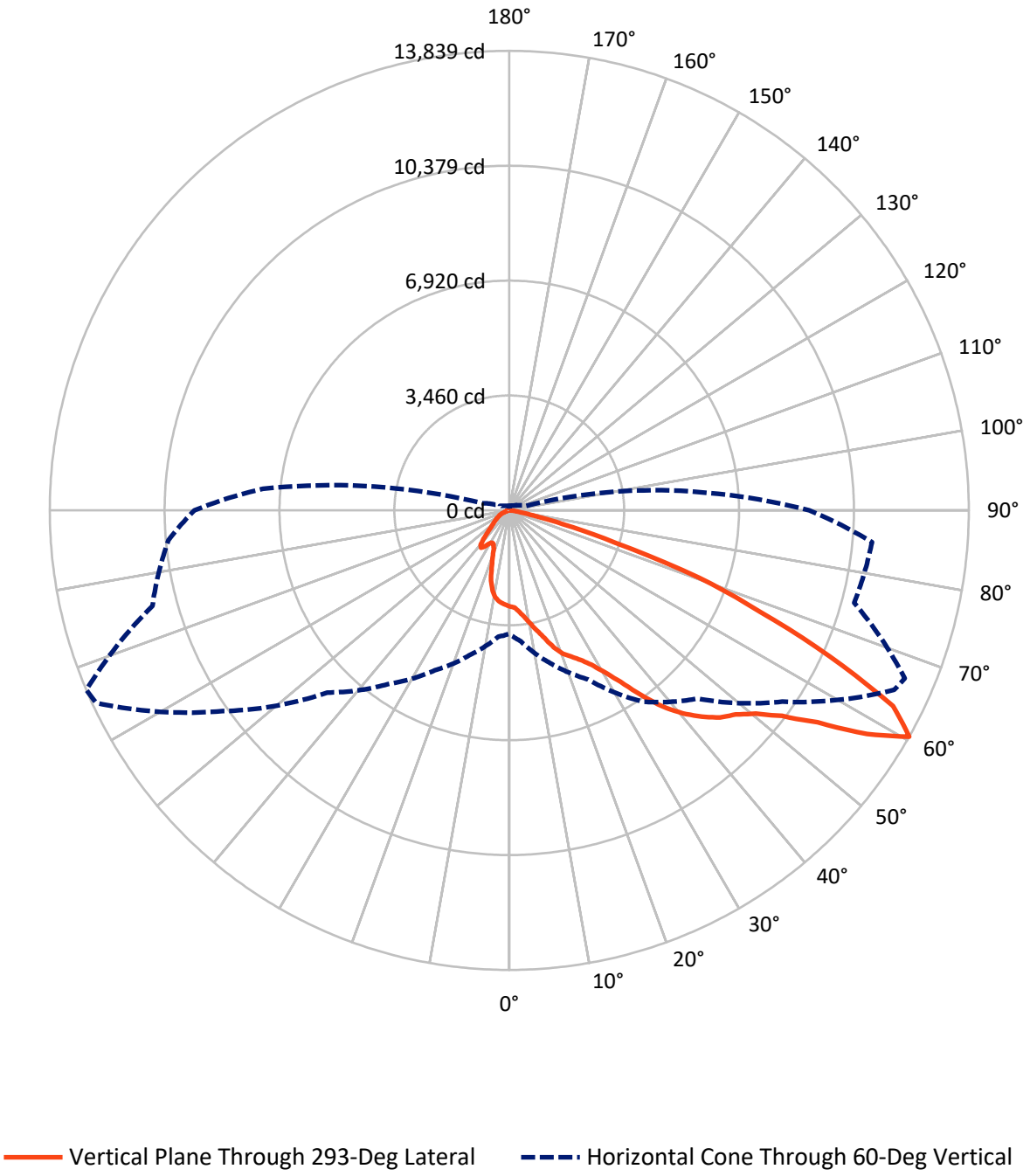

Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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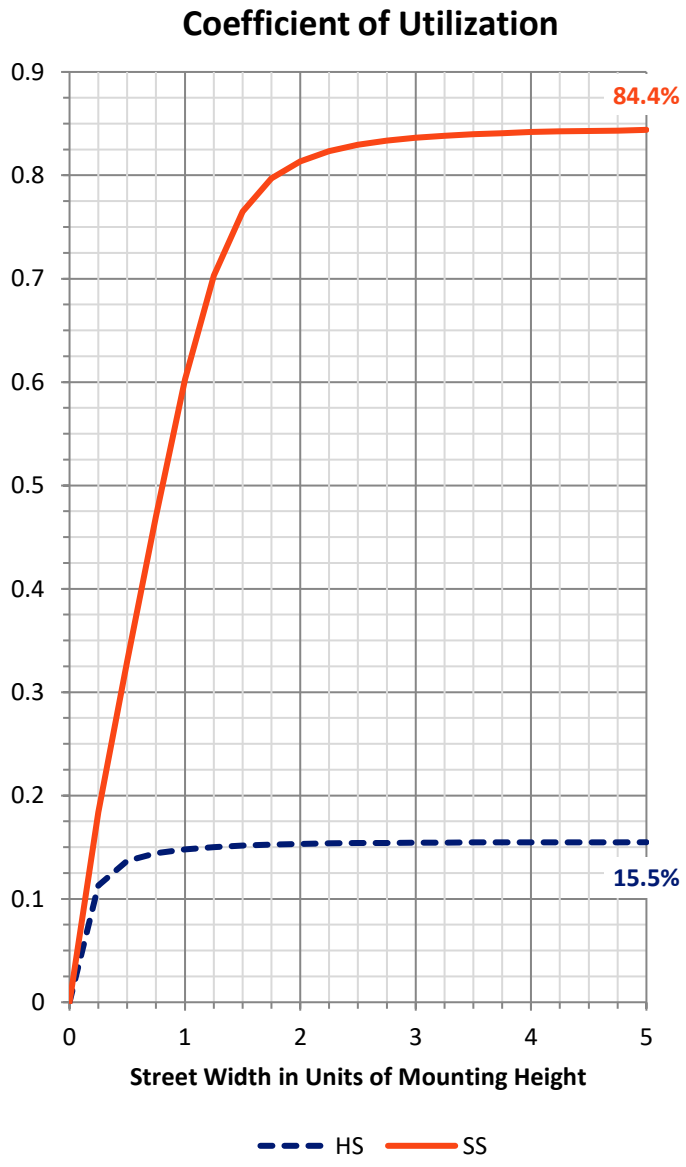
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2633.3 | 0.0 | 2633.3 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 14244.2 | 0.0 | 14244.2 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 16877.5 | 0.0 | 16877.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 261.9 | 1.6 |
| 10°-20° | 659.7 | 3.9 |
| 20°-30° | 1231.5 | 7.3 |
| 30°-40° | 2442.1 | 14.5 |
| 40°-50° | 3893.6 | 23.1 |
| 50°-60° | 4651.9 | 27.6 |
| 60°-70° | 3049.6 | 18.1 |
| 70°-80° | 638.9 | 3.8 |
| 80°-90° | 48.3 | 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° | 16877.5 | 100.0 |
| 0°-180° | 16877.5 | 100.0 |



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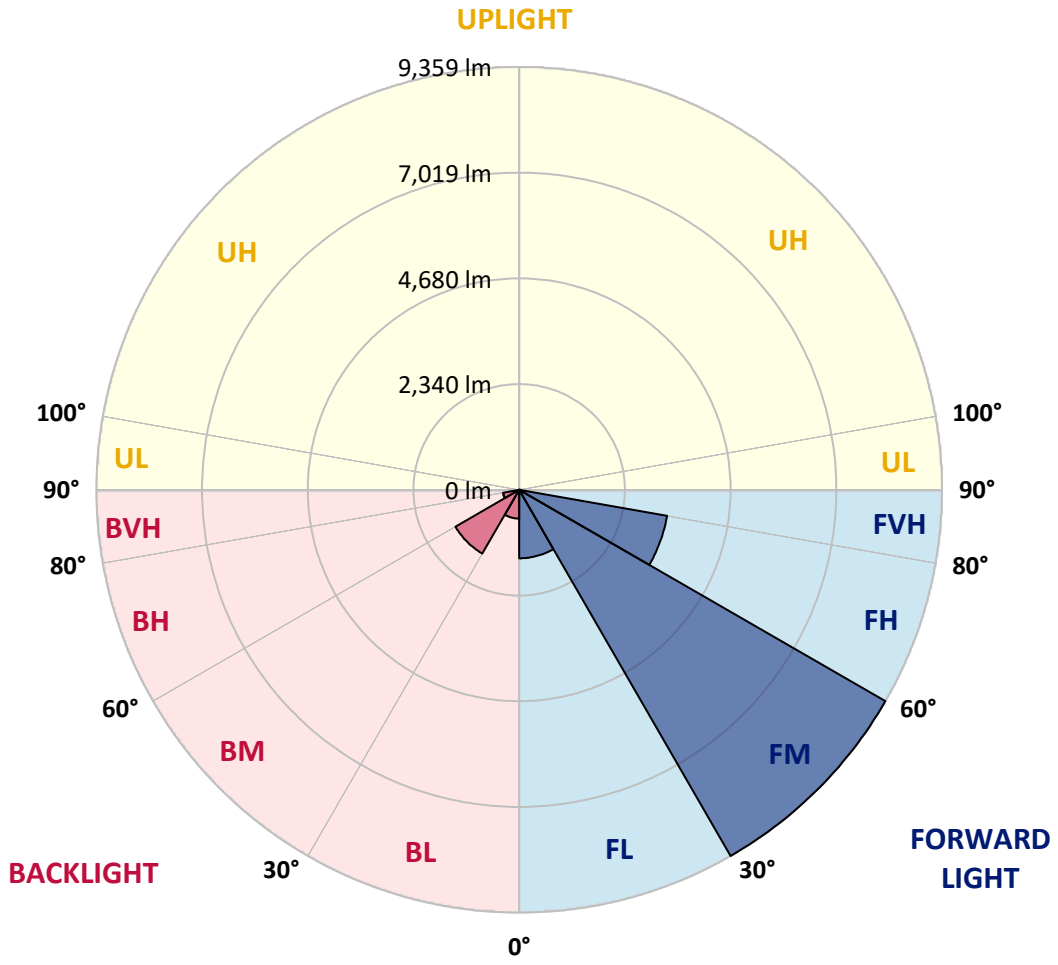
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1515.9 | 9.0 | | | |
| FM | (30°-60°) | 9359.2 | 55.5 | | | |
| FH | (60°-80°) | 3324.8 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 44.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 637.1 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1628.4 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 363.8 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.0 | 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° | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 |
| 2.5° | 3039.2 | 3029.7 | 3015.5 | 3020.3 | 3015.5 | 2996.6 | 2968.3 | 2944.6 | 2963.5 | 2935.2 | 2916.3 |
| 5° | 3129.0 | 3129.0 | 3119.5 | 3119.5 | 3124.2 | 3114.8 | 3095.9 | 3062.8 | 3067.5 | 3043.9 | 2982.4 |
| 7.5° | 3129.0 | 3114.8 | 3138.4 | 3162.1 | 3204.6 | 3228.2 | 3237.7 | 3218.8 | 3228.2 | 3181.0 | 3100.6 |
| 10° | 2944.6 | 2935.2 | 2996.6 | 3086.4 | 3209.3 | 3318.0 | 3388.9 | 3393.7 | 3407.8 | 3360.6 | 3266.0 |
| 12.5° | 2552.3 | 2533.4 | 2656.3 | 2826.5 | 3077.0 | 3327.5 | 3526.0 | 3601.6 | 3634.7 | 3615.8 | 3483.5 |
| 15° | 2188.4 | 2212.0 | 2297.1 | 2481.4 | 2817.0 | 3199.9 | 3601.6 | 3852.1 | 3899.4 | 3923.0 | 3767.0 |
| 17.5° | 2150.6 | 2155.3 | 2183.7 | 2273.5 | 2528.7 | 2991.9 | 3611.1 | 4112.1 | 4178.3 | 4282.2 | 4069.5 |
| 20° | 2254.6 | 2245.1 | 2273.5 | 2301.8 | 2424.7 | 2807.6 | 3521.3 | 4362.6 | 4490.2 | 4712.4 | 4480.8 |
| 22.5° | 2448.3 | 2448.3 | 2462.5 | 2481.4 | 2542.9 | 2793.4 | 3483.5 | 4594.2 | 4811.6 | 5265.4 | 4995.9 |
| 25° | 2774.5 | 2736.7 | 2746.1 | 2722.5 | 2774.5 | 2963.5 | 3568.5 | 4778.5 | 5076.3 | 5879.8 | 5610.4 |
| 27.5° | 3280.2 | 3294.4 | 3209.3 | 3081.7 | 3110.1 | 3270.8 | 3776.5 | 4986.5 | 5350.4 | 6517.9 | 6234.3 |
| 30° | 3979.7 | 3956.1 | 3904.1 | 3653.6 | 3540.2 | 3682.0 | 4159.3 | 5326.8 | 5719.1 | 7326.1 | 7066.2 |
| 32.5° | 4528.0 | 4594.2 | 4504.4 | 4329.5 | 4154.6 | 4197.2 | 4698.2 | 5875.1 | 6168.1 | 8068.2 | 7926.4 |
| 35° | 5189.7 | 5189.7 | 5208.6 | 4962.9 | 4844.7 | 4835.2 | 5374.1 | 6470.6 | 6763.7 | 8739.4 | 8838.6 |
| 37.5° | 6083.0 | 6021.6 | 5917.6 | 5643.5 | 5553.7 | 5671.8 | 6007.4 | 7085.1 | 7401.8 | 9282.9 | 9547.6 |
| 40° | 6834.6 | 6877.1 | 6862.9 | 6465.9 | 6291.0 | 6418.6 | 6716.4 | 7609.7 | 7855.5 | 9632.7 | 10119.5 |
| 42.5° | 7571.9 | 7595.5 | 7534.1 | 7345.0 | 7089.8 | 7099.3 | 7345.0 | 8006.7 | 8257.3 | 9968.3 | 10658.3 |
| 45° | 8124.9 | 8120.2 | 8077.6 | 8030.4 | 7879.1 | 7723.2 | 7765.7 | 8446.3 | 8663.7 | 10077.0 | 10951.4 |
| 47.5° | 8299.8 | 8337.6 | 8375.4 | 8507.8 | 8611.7 | 8366.0 | 8148.5 | 8682.6 | 8881.2 | 10058.1 | 11060.1 |
| 50° | 8139.1 | 8219.4 | 8403.8 | 8602.3 | 8956.8 | 8937.9 | 8469.9 | 8937.9 | 9131.7 | 10162.0 | 11187.7 |
| 52.5° | 7779.9 | 7860.2 | 8106.0 | 8465.2 | 8999.3 | 9264.0 | 9065.5 | 9368.0 | 9594.9 | 10426.7 | 11452.4 |
| 55° | 6943.3 | 6976.4 | 7482.1 | 7954.8 | 8786.6 | 9122.2 | 9703.6 | 10095.9 | 10284.9 | 10748.1 | 11802.2 |
| 57.5° | 5652.9 | 5733.3 | 6229.6 | 7000.0 | 8191.1 | 8748.8 | 10067.5 | 11339.0 | 11334.2 | 11055.4 | 11877.8 |
| 60° | *3719.8* | *3956.1* | *4764.3* | *5615.1* | *7037.8* | *8016.2* | *10043.9* | *12794.7* | *12941.2* | *10752.9* | *10965.6* |
| 62.5° | 2840.6 | 2939.9 | 3398.4 | 4107.4 | 5208.6 | 6645.5 | 9887.9 | 13229.6 | 13343.0 | 9939.9 | 9599.6 |
| 65° | 2136.4 | 2259.3 | 2698.9 | 3332.2 | 3677.2 | 4504.4 | 8867.0 | 11499.7 | 11655.6 | 8871.7 | 7463.2 |
| 67.5° | 1309.2 | 1408.5 | 1994.6 | 2736.7 | 2783.9 | 2798.1 | 5983.8 | 8711.0 | 8767.7 | 7156.0 | 5024.3 |
| 70° | 874.4 | 973.7 | 1380.1 | 2103.3 | 2216.7 | 1611.7 | 3284.9 | 6593.5 | 6588.8 | 4896.7 | 3053.3 |
| 72.5° | 505.7 | 553.0 | 874.4 | 1550.3 | 1744.1 | 1025.7 | 1640.1 | 4192.4 | 4008.1 | 2301.8 | 1427.4 |
| 75° | 288.3 | 321.4 | 482.1 | 997.3 | 1224.2 | 652.3 | 647.5 | 2245.1 | 1985.1 | 1186.4 | 779.9 |
| 77.5° | 174.9 | 189.1 | 264.7 | 652.3 | 737.3 | 439.6 | 359.2 | 1044.6 | 1006.8 | 694.8 | 411.2 |
| 80° | 85.1 | 99.3 | 160.7 | 382.8 | 472.7 | 236.3 | 217.4 | 411.2 | 439.6 | 382.8 | 217.4 |
| 82.5° | 28.4 | 37.8 | 89.8 | 146.5 | 307.2 | 94.5 | 89.8 | 226.9 | 241.1 | 226.9 | 104.0 |
| 85° | 14.2 | 18.9 | 42.5 | 47.3 | 118.2 | 47.3 | 33.1 | 99.3 | 122.9 | 75.6 | 42.5 |
| 87.5° | 0.0 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 9.5 | 9.5 | 9.5 | 9.5 |
| 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° | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 |
| 2.5° | 2902.1 | 2892.6 | 2873.7 | 2840.6 | 2835.9 | 2812.3 | 2774.5 | 2750.8 | 2731.9 | 2746.1 | 2750.8 |
| 5° | 2954.1 | 2930.5 | 2873.7 | 2783.9 | 2689.4 | 2594.9 | 2505.1 | 2401.1 | 2330.2 | 2320.7 | 2301.8 |
| 7.5° | 3048.6 | 3001.3 | 2878.5 | 2703.6 | 2462.5 | 2235.6 | 1971.0 | 1715.7 | 1588.1 | 1569.2 | 1526.7 |
| 10° | 3199.9 | 3119.5 | 2916.3 | 2561.8 | 2098.6 | 1625.9 | 1224.2 | 950.0 | 794.1 | 765.7 | 775.2 |
| 12.5° | 3379.5 | 3266.0 | 2921.0 | 2320.7 | 1597.6 | 1006.8 | 694.8 | 590.8 | 557.7 | 543.6 | 543.6 |
| 15° | 3611.1 | 3445.6 | 2916.3 | 2008.8 | 1077.6 | 647.5 | 557.7 | 515.2 | 501.0 | 491.6 | 491.6 |
| 17.5° | 3904.1 | 3686.7 | 2883.2 | 1540.8 | 727.9 | 562.5 | 510.5 | 477.4 | 458.5 | 453.7 | 453.7 |
| 20° | 4249.2 | 3956.1 | 2807.6 | 1148.5 | 609.7 | 524.6 | 482.1 | 439.6 | 425.4 | 415.9 | 415.9 |
| 22.5° | 4688.7 | 4282.2 | 2661.0 | 893.3 | 576.6 | 501.0 | 453.7 | 406.5 | 392.3 | 382.8 | 382.8 |
| 25° | 5199.2 | 4698.2 | 2467.3 | 803.5 | 571.9 | 482.1 | 425.4 | 378.1 | 363.9 | 359.2 | 354.5 |
| 27.5° | 5804.2 | 5142.5 | 2287.6 | 808.2 | 581.4 | 467.9 | 397.0 | 354.5 | 340.3 | 326.1 | 330.9 |
| 30° | 6517.9 | 5600.9 | 2141.1 | 865.0 | 590.8 | 453.7 | 378.1 | 340.3 | 326.1 | 307.2 | 307.2 |
| 32.5° | 7222.1 | 6139.8 | 2126.9 | 968.9 | 623.9 | 444.3 | 359.2 | 321.4 | 307.2 | 293.0 | 293.0 |
| 35° | 7945.3 | 6631.3 | 2207.3 | 1106.0 | 690.1 | 430.1 | 335.6 | 302.5 | 288.3 | 278.9 | 274.1 |
| 37.5° | 8635.4 | 7023.6 | 2282.9 | 1191.1 | 652.3 | 368.7 | 307.2 | 278.9 | 264.7 | 245.8 | 245.8 |
| 40° | 9093.8 | 7236.3 | 2297.1 | 1124.9 | 538.8 | 330.9 | 278.9 | 250.5 | 231.6 | 222.1 | 217.4 |
| 42.5° | 9429.4 | 7373.4 | 2136.4 | 912.2 | 467.9 | 302.5 | 255.2 | 226.9 | 212.7 | 203.2 | 203.2 |
| 45° | 9566.5 | 7326.1 | 1862.3 | 694.8 | 430.1 | 278.9 | 231.6 | 208.0 | 198.5 | 189.1 | 189.1 |
| 47.5° | 9547.6 | 7108.7 | 1583.4 | 557.7 | 392.3 | 255.2 | 217.4 | 198.5 | 189.1 | 179.6 | 174.9 |
| 50° | 9514.5 | 6905.5 | 1299.8 | 496.3 | 349.8 | 241.1 | 203.2 | 189.1 | 174.9 | 165.4 | 160.7 |
| 52.5° | 9731.9 | 6839.3 | 1077.6 | 453.7 | 326.1 | 231.6 | 198.5 | 179.6 | 165.4 | 156.0 | 156.0 |
| 55° | 9949.4 | 6867.7 | 846.0 | 425.4 | 302.5 | 226.9 | 193.8 | 174.9 | 160.7 | 146.5 | 146.5 |
| 57.5° | 9935.2 | 6744.8 | 642.8 | 397.0 | 283.6 | 222.1 | 189.1 | 170.2 | 146.5 | 137.1 | 137.1 |
| 60° | *9032.4* | *6016.9* | *501.0* | *363.9* | *260.0* | *208.0* | *174.9* | *160.7* | *137.1* | *122.9* | *122.9* |
| 62.5° | 7638.1 | 4731.3 | 411.2 | 321.4 | 231.6 | 189.1 | 160.7 | 146.5 | 122.9 | 99.3 | 99.3 |
| 65° | 5643.5 | 3412.6 | 330.9 | 278.9 | 212.7 | 165.4 | 146.5 | 127.6 | 99.3 | 80.4 | 75.6 |
| 67.5° | 3819.0 | 2098.6 | 264.7 | 231.6 | 189.1 | 141.8 | 122.9 | 108.7 | 89.8 | 66.2 | 61.4 |
| 70° | 2264.0 | 1115.5 | 193.8 | 160.7 | 141.8 | 104.0 | 104.0 | 94.5 | 75.6 | 56.7 | 52.0 |
| 72.5° | 1077.6 | 387.6 | 141.8 | 118.2 | 108.7 | 75.6 | 80.4 | 80.4 | 61.4 | 42.5 | 37.8 |
| 75° | 548.3 | 189.1 | 94.5 | 85.1 | 70.9 | 56.7 | 66.2 | 61.4 | 42.5 | 28.4 | 28.4 |
| 77.5° | 312.0 | 132.3 | 66.2 | 56.7 | 47.3 | 37.8 | 42.5 | 37.8 | 23.6 | 14.2 | 14.2 |
| 80° | 174.9 | 94.5 | 42.5 | 37.8 | 28.4 | 23.6 | 23.6 | 18.9 | 14.2 | 4.7 | 4.7 |
| 82.5° | 66.2 | 56.7 | 28.4 | 18.9 | 14.2 | 14.2 | 9.5 | 9.5 | 4.7 | 0.0 | 0.0 |
| 85° | 28.4 | 14.2 | 14.2 | 9.5 | 9.5 | 4.7 | 4.7 | 4.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.7 | 4.7 | 4.7 | 4.7 | 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° | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 |
| 2.5° | 2713.0 | 2722.5 | 2731.9 | 2769.7 | 2779.2 | 2807.6 | 2831.2 | 2859.6 | 2864.3 | 2902.1 | 2902.1 |
| 5° | 2339.6 | 2334.9 | 2415.3 | 2533.4 | 2609.0 | 2713.0 | 2793.4 | 2878.5 | 2925.7 | 2987.2 | 3015.5 |
| 7.5° | 1550.3 | 1668.5 | 1848.1 | 2056.0 | 2325.5 | 2576.0 | 2765.0 | 2930.5 | 3043.9 | 3114.8 | 3143.1 |
| 10° | 770.4 | 836.6 | 1025.7 | 1366.0 | 1824.4 | 2334.9 | 2736.7 | 3043.9 | 3228.2 | 3308.6 | 3360.6 |
| 12.5° | 543.6 | 557.7 | 590.8 | 775.2 | 1214.7 | 1937.9 | 2646.9 | 3166.8 | 3422.0 | 3573.3 | 3639.4 |
| 15° | 486.8 | 496.3 | 510.5 | 562.5 | 751.5 | 1446.3 | 2486.2 | 3303.8 | 3724.5 | 3899.4 | 3984.5 |
| 17.5° | 449.0 | 453.7 | 467.9 | 510.5 | 590.8 | 983.1 | 2226.2 | 3450.4 | 4088.5 | 4301.1 | 4461.8 |
| 20° | 415.9 | 415.9 | 430.1 | 482.1 | 548.3 | 756.2 | 1852.8 | 3615.8 | 4551.7 | 4858.9 | 5019.6 |
| 22.5° | 378.1 | 387.6 | 397.0 | 453.7 | 534.1 | 690.1 | 1503.0 | 3743.4 | 5066.8 | 5440.2 | 5629.3 |
| 25° | 349.8 | 359.2 | 368.7 | 425.4 | 519.9 | 690.1 | 1299.8 | 3823.8 | 5643.5 | 6087.8 | 6347.7 |
| 27.5° | 326.1 | 335.6 | 349.8 | 406.5 | 505.7 | 718.4 | 1219.4 | 3847.4 | 6272.1 | 6848.7 | 7198.5 |
| 30° | 307.2 | 316.7 | 330.9 | 392.3 | 515.2 | 751.5 | 1247.8 | 3814.3 | 6910.2 | 7633.4 | 8049.3 |
| 32.5° | 288.3 | 297.8 | 312.0 | 378.1 | 515.2 | 794.1 | 1342.3 | 3748.1 | 7529.4 | 8418.0 | 8928.4 |
| 35° | 274.1 | 278.9 | 283.6 | 340.3 | 467.9 | 789.3 | 1460.5 | 3682.0 | 8153.3 | 9193.1 | 9788.6 |
| 37.5° | 245.8 | 250.5 | 260.0 | 293.0 | 373.4 | 718.4 | 1484.1 | 3601.6 | 8644.8 | 9845.4 | 10502.4 |
| 40° | 217.4 | 226.9 | 236.3 | 269.4 | 312.0 | 581.4 | 1380.1 | 3431.5 | 8904.8 | 10346.4 | 11145.2 |
| 42.5° | 198.5 | 203.2 | 212.7 | 245.8 | 288.3 | 463.2 | 1158.0 | 3133.7 | 9136.4 | 10686.7 | 11613.1 |
| 45° | 184.3 | 189.1 | 198.5 | 222.1 | 269.4 | 401.8 | 912.2 | 2769.7 | 9155.3 | 10795.4 | 11840.0 |
| 47.5° | 170.2 | 174.9 | 179.6 | 203.2 | 260.0 | 359.2 | 699.5 | 2438.9 | 9150.6 | 10937.2 | 12033.8 |
| 50° | 160.7 | 165.4 | 174.9 | 193.8 | 245.8 | 321.4 | 576.6 | 2169.5 | 9349.1 | 11244.4 | 12426.1 |
| 52.5° | 156.0 | 156.0 | 170.2 | 189.1 | 231.6 | 293.0 | 482.1 | 1928.4 | 9453.1 | 11546.9 | 12709.6 |
| 55° | 146.5 | 151.2 | 160.7 | 179.6 | 217.4 | 278.9 | 411.2 | 1625.9 | 9500.3 | 11698.2 | 12761.6 |
| 57.5° | 137.1 | 141.8 | 156.0 | 170.2 | 208.0 | 264.7 | 354.5 | 1214.7 | 8824.4 | 10908.8 | 11892.0 |
| 60° | *122.9* | *132.3* | *151.2* | *165.4* | *193.8* | *241.1* | *312.0* | *822.4* | *7444.3* | *9481.4* | *10303.8* |
| 62.5° | 99.3 | 118.2 | 137.1 | 146.5 | 174.9 | 203.2 | 264.7 | 548.3 | 5946.0 | 7846.0 | 8781.9 |
| 65° | 75.6 | 99.3 | 113.4 | 127.6 | 146.5 | 170.2 | 222.1 | 373.4 | 3965.6 | 5279.5 | 6333.6 |
| 67.5° | 66.2 | 85.1 | 94.5 | 104.0 | 122.9 | 146.5 | 179.6 | 260.0 | 2405.8 | 3171.5 | 4211.3 |
| 70° | 52.0 | 70.9 | 80.4 | 75.6 | 94.5 | 113.4 | 127.6 | 174.9 | 1228.9 | 1720.5 | 2396.4 |
| 72.5° | 37.8 | 56.7 | 61.4 | 61.4 | 56.7 | 80.4 | 94.5 | 122.9 | 534.1 | 836.6 | 1087.1 |
| 75° | 28.4 | 37.8 | 42.5 | 37.8 | 33.1 | 52.0 | 66.2 | 80.4 | 349.8 | 501.0 | 633.4 |
| 77.5° | 14.2 | 14.2 | 23.6 | 23.6 | 14.2 | 28.4 | 33.1 | 47.3 | 198.5 | 293.0 | 363.9 |
| 80° | 4.7 | 0.0 | 0.0 | 4.7 | 0.0 | 9.5 | 14.2 | 23.6 | 104.0 | 156.0 | 226.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 52.0 | 47.3 | 118.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.5 | 28.4 |
| 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: P1501989
CATALOG NUMBER: GSS-SB5A-850-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2892.6 | *2892.6* | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 | 2892.6 |
| 2.5° | 2925.7 | *2925.7* | 2944.6 | 2973.0 | 2987.2 | 2996.6 | 3001.3 | 3010.8 | 3048.6 | 3039.2 |
| 5° | 3048.6 | *3058.1* | 3072.2 | 3100.6 | 3133.7 | 3124.2 | 3124.2 | 3124.2 | 3147.9 | 3129.0 |
| 7.5° | 3209.3 | *3237.7* | 3242.4 | 3275.5 | 3251.9 | 3204.6 | 3176.2 | 3133.7 | 3129.0 | 3129.0 |
| 10° | 3469.3 | *3459.8* | 3459.8 | 3417.3 | 3332.2 | 3195.1 | 3072.2 | 2987.2 | 2939.9 | 2944.6 |
| 12.5° | 3748.1 | *3710.3* | 3715.1 | 3559.1 | 3318.0 | 3015.5 | 2765.0 | 2580.7 | 2566.5 | 2552.3 |
| 15° | 4093.2 | *3993.9* | 3975.0 | 3615.8 | 3105.3 | 2642.1 | 2396.4 | 2249.8 | 2202.6 | 2188.4 |
| 17.5° | 4584.7 | *4334.2* | 4244.4 | 3516.5 | 2826.5 | 2410.5 | 2226.2 | 2160.0 | 2155.3 | 2150.6 |
| 20° | 5104.7 | *4608.4* | 4438.2 | 3370.0 | 2731.9 | 2415.3 | 2278.2 | 2259.3 | 2249.8 | 2254.6 |
| 22.5° | 5709.7 | *4783.3* | 4565.8 | 3393.7 | 2817.0 | 2571.2 | 2462.5 | 2448.3 | 2438.9 | 2448.3 |
| 25° | 6333.6 | *4986.5* | 4717.1 | 3582.7 | 3072.2 | 2859.6 | 2731.9 | 2703.6 | 2731.9 | 2774.5 |
| 27.5° | 6962.2 | *5260.6* | 5014.9 | 3956.1 | 3483.5 | 3251.9 | 3129.0 | 3232.9 | 3275.5 | 3280.2 |
| 30° | 7519.9 | *5643.5* | 5416.6 | 4480.8 | 3951.4 | 3719.8 | 3743.4 | 3875.8 | 3927.7 | 3979.7 |
| 32.5° | 8030.4 | *6153.9* | 5979.1 | 5076.3 | 4556.4 | 4419.3 | 4405.1 | 4504.4 | 4561.1 | 4528.0 |
| 35° | 8545.6 | *6820.4* | 6650.2 | 5723.8 | 5298.4 | 5185.0 | 5066.8 | 5260.6 | 5241.7 | 5189.7 |
| 37.5° | 9032.4 | *7491.6* | 7335.6 | 6418.6 | 5979.1 | 5780.5 | 5761.6 | 5936.5 | 6092.5 | 6083.0 |
| 40° | 9382.2 | *8035.1* | 7846.0 | 7108.7 | 6692.8 | 6522.6 | 6621.9 | 6924.4 | 6886.6 | 6834.6 |
| 42.5° | 9703.6 | *8498.3* | 8328.2 | 7713.7 | 7278.9 | 7354.5 | 7444.3 | 7647.5 | 7623.9 | 7571.9 |
| 45° | 9854.8 | *8895.3* | 8748.8 | 8172.2 | 7959.5 | 8200.5 | 8195.8 | 8271.4 | 8143.8 | 8124.9 |
| 47.5° | 10067.5 | *9178.9* | 9027.7 | 8583.4 | 8772.4 | 8871.7 | 8592.8 | 8512.5 | 8394.3 | 8299.8 |
| 50° | 10459.8 | *9618.5* | 9467.2 | 9207.3 | 9368.0 | 9060.8 | 8720.5 | 8545.6 | 8304.5 | 8139.1 |
| 52.5° | 10918.3 | *10284.9* | 10152.6 | 10048.6 | 9599.6 | 8966.2 | 8531.4 | 8214.7 | 7921.7 | 7779.9 |
| 55° | 11494.9 | *11268.1* | 11173.5 | 10601.6 | 9391.6 | 8578.7 | 8068.2 | 7477.4 | 7075.6 | 6943.3 |
| 57.5° | 11684.0 | *12709.6* | 12676.6 | 10691.4 | 8810.3 | 7874.4 | 6952.7 | 6153.9 | 5738.0 | 5652.9 |
| 60° | *11126.3* | *13839.3* | *13721.1* | *10540.2* | *7756.2* | *6390.3* | *5312.6* | *4494.9* | *3819.0* | *3719.8* |
| 62.5° | 10412.6 | *12974.3* | 12931.8 | 9779.2 | 5908.2 | 4580.0 | 3970.3 | 3204.6 | 2916.3 | 2840.6 |
| 65° | 8919.0 | *10615.8* | 10634.7 | 7846.0 | 3738.7 | 3289.7 | 3261.3 | 2547.6 | 2193.1 | 2136.4 |
| 67.5° | 6867.7 | *8143.8* | 8011.5 | 4934.5 | 2178.9 | 2632.7 | 2604.3 | 1862.3 | 1347.1 | 1309.2 |
| 70° | 4012.8 | *6064.1* | 5851.4 | 2566.5 | 1441.6 | 2197.8 | 2004.0 | 1309.2 | 916.9 | 874.4 |
| 72.5° | 1772.4 | *3336.9* | 3582.7 | 1129.6 | 1016.2 | 1748.8 | 1446.3 | 803.5 | 515.2 | 505.7 |
| 75° | 983.1 | *1654.3* | 1729.9 | 491.6 | 713.7 | 1243.1 | 874.4 | 449.0 | 293.0 | 288.3 |
| 77.5° | 590.8 | *732.6* | 713.7 | 316.7 | 534.1 | 794.1 | 529.4 | 255.2 | 184.3 | 174.9 |
| 80° | 330.9 | *335.6* | 283.6 | 231.6 | 316.7 | 444.3 | 297.8 | 160.7 | 85.1 | 85.1 |
| 82.5° | 203.2 | *184.3* | 146.5 | 70.9 | 85.1 | 269.4 | 108.7 | 89.8 | 28.4 | 28.4 |
| 85° | 85.1 | *56.7* | 37.8 | 14.2 | 33.1 | 70.9 | 37.8 | 42.5 | 14.2 | 14.2 |
| 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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

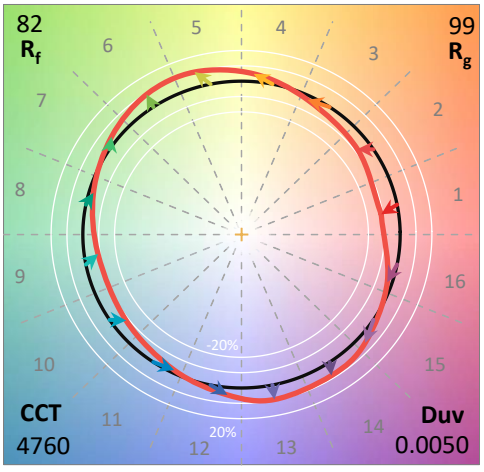
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-12 |
| 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-850-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 4760 |
| CIE u': | 0.2107 |
| CIE v': | 0.4939 |
| Duv: | 0.0050 |
| CIE x: | 0.3537 |
| CIE y: | 0.3685 |
| CIE z: | 0.2779 |
| Peak Wavelength (nm): | 443 |
| Dominant Wavelength (nm): | 571 |
| Purity: | 16.69598 |
| Rf: | 82 |
| Rg: | 99.4 |

| | |
|---|---|
| CRI (Ra): | 81.1 |
| R1: | 79.8 |
| R2: | 83.5 |
| R3: | 87.9 |
| R4: | 83.1 |
| R5: | 80.5 |
| R6: | 79.1 |
| R7: | 86.1 |
| R8: | 69.0 |
| R9: | 8.7 |
| R10: | 62.4 |
| R11: | 83.8 |
| R12: | 63.0 |
| R13: | 79.9 |
| R14: | 93.3 |
| R15: | 72.7 |




## Test Conditions

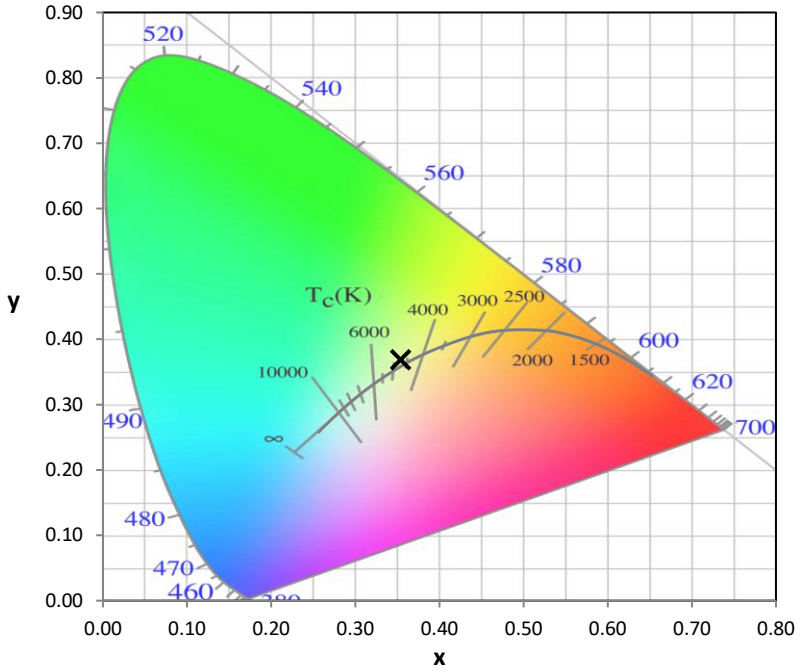
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-12

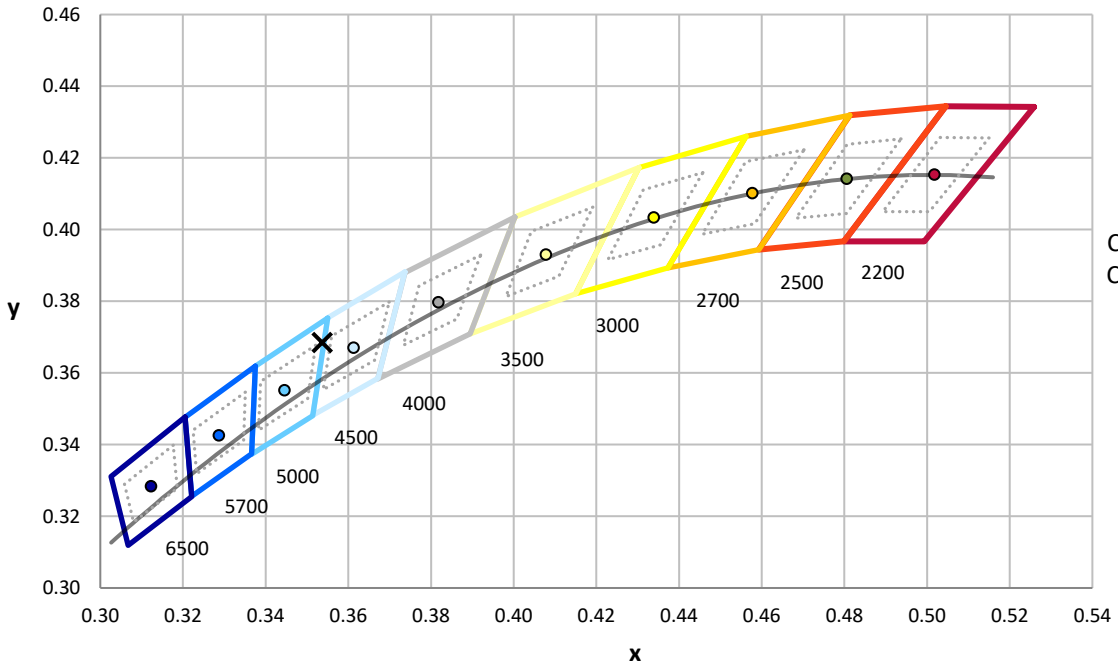
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-12

## CIE 1931 Chromaticity Diagram




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

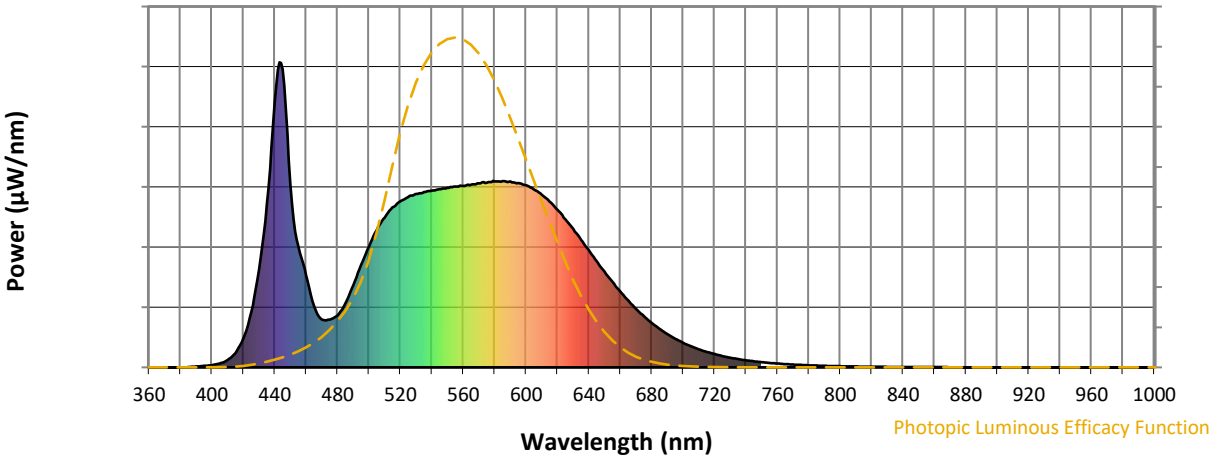



CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

## Photopic Flux vs. Wavelength

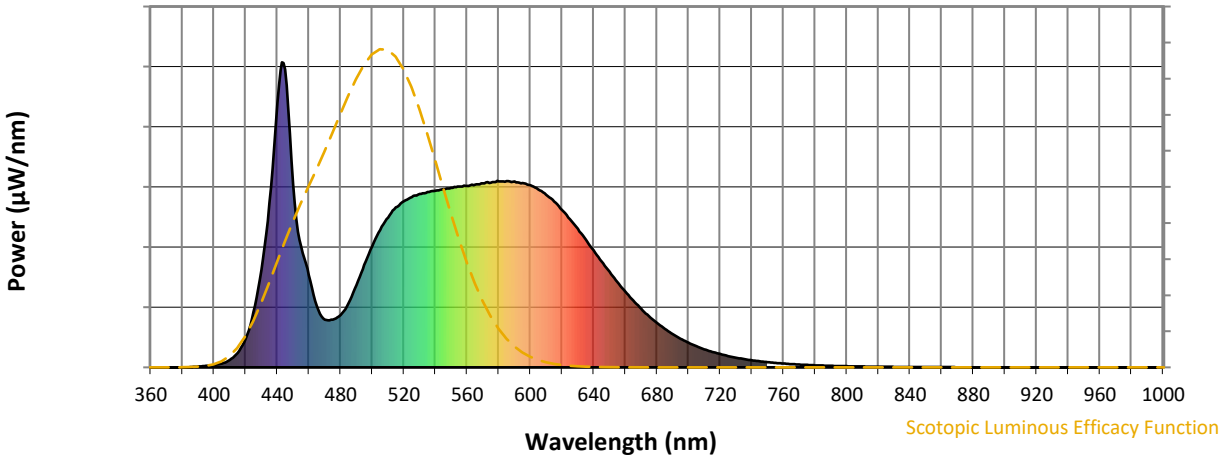



## Photopic Lumens: NR

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Scotopic Flux vs. Wavelength

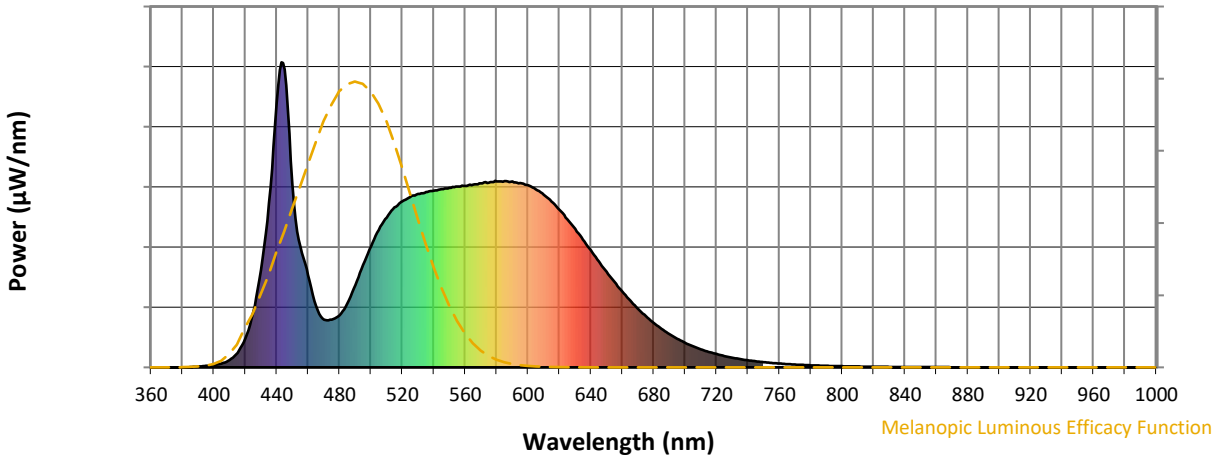



**Scotopic Lumens: NR** **S/P: 1.83**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.74**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

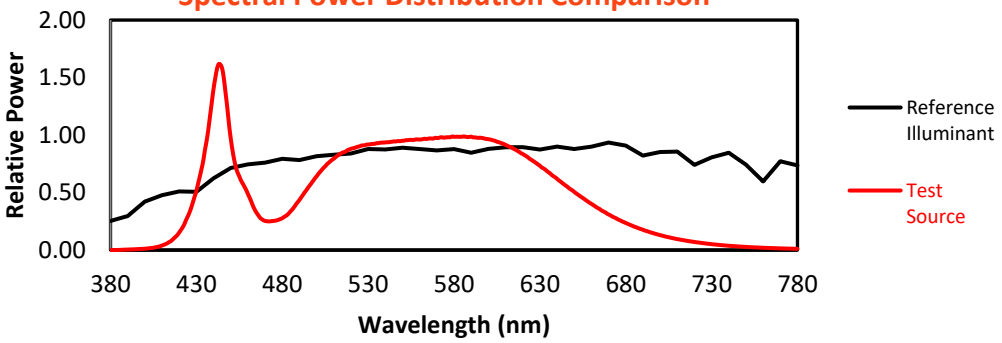
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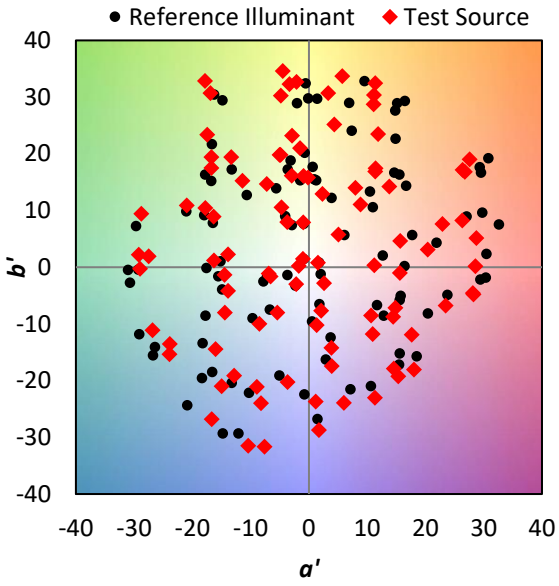
## Summary

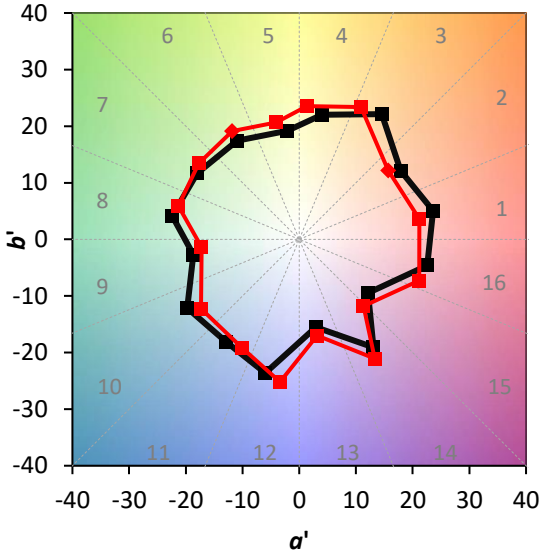
$R_f$ = 82
$R_g$ = 99.4
CIE $R_a$ = 81.1
$R_9$ = 8.7

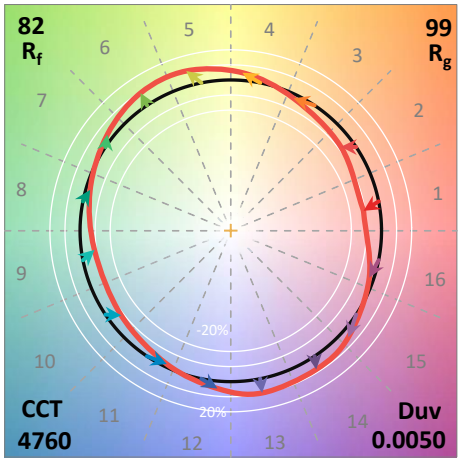
## Spectral Power Distribution Comparison

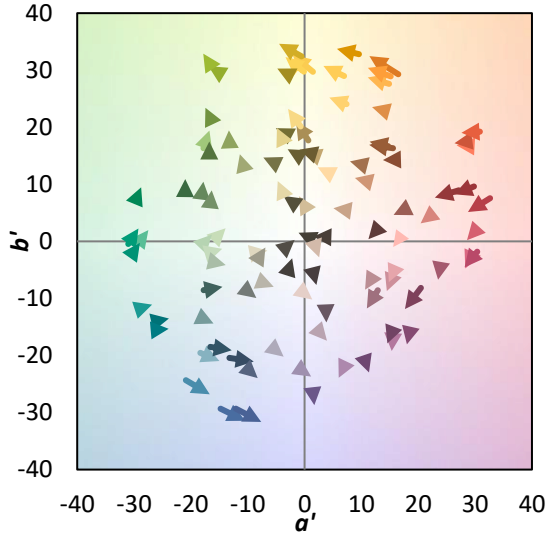



## Color Vector Graphics



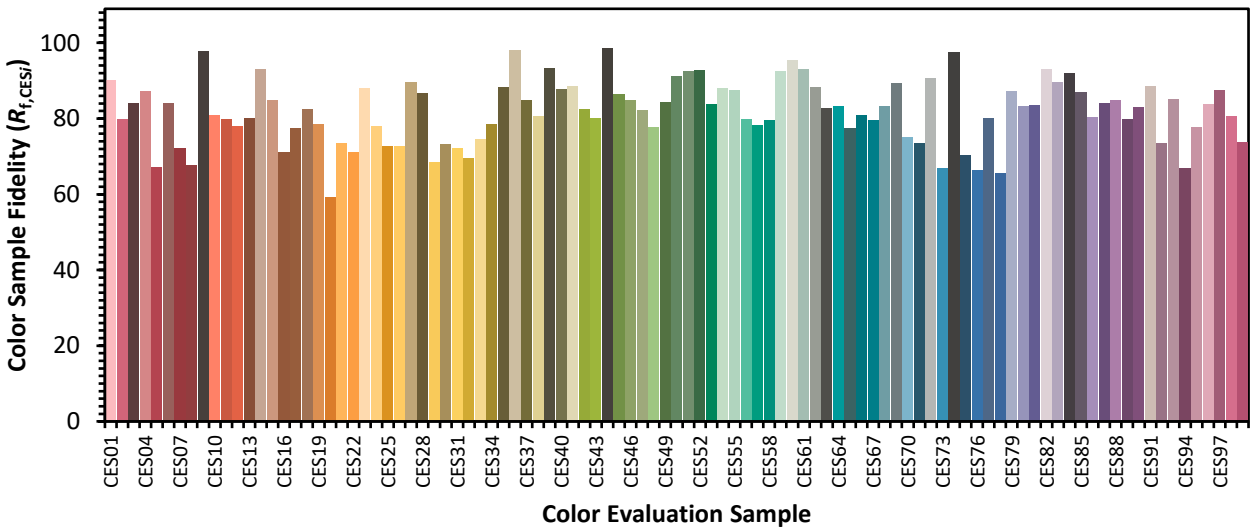



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## Individual Sample Fidelity Index ($R_{f,i}$)

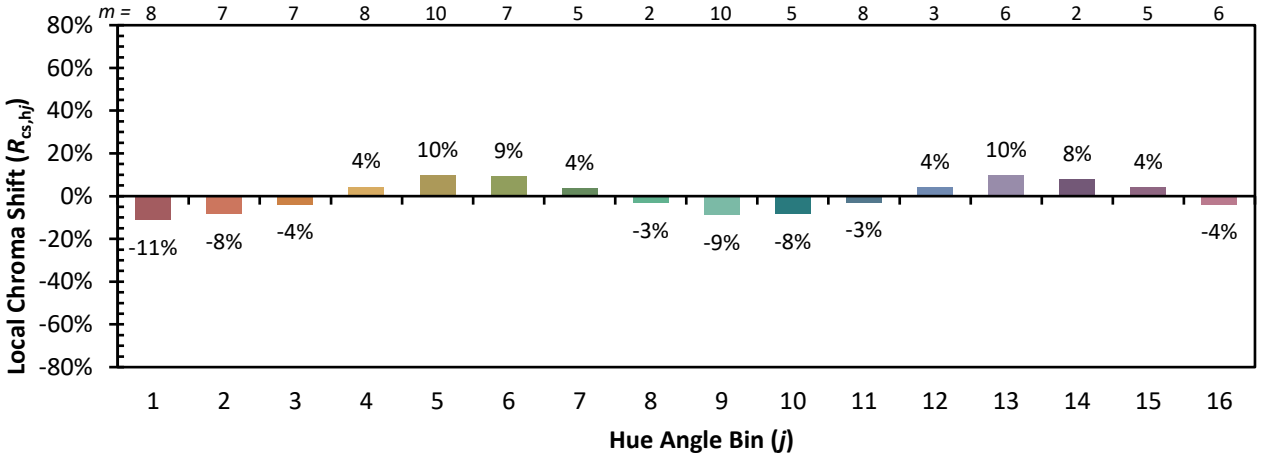
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 73 | CES51 = 92 | CES76 = 66 |
| CES02 = 60 | CES27 = 90 | CES52 = 93 | CES77 = 80 |
| CES03 = 30 | CES28 = 87 | CES53 = 84 | CES78 = 65 |
| CES04 = 69 | CES29 = 69 | CES54 = 88 | CES79 = 87 |
| CES05 = 47 | CES30 = 73 | CES55 = 88 | CES80 = 83 |
| CES06 = 50 | CES31 = 72 | CES56 = 80 | CES81 = 84 |
| CES07 = 40 | CES32 = 69 | CES57 = 78 | CES82 = 93 |
| CES08 = 39 | CES33 = 75 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 78 | CES59 = 93 | CES84 = 92 |
| CES10 = 73 | CES35 = 88 | CES60 = 95 | CES85 = 87 |
| CES11 = 56 | CES36 = 98 | CES61 = 93 | CES86 = 80 |
| CES12 = 62 | CES37 = 85 | CES62 = 88 | CES87 = 84 |
| CES13 = 42 | CES38 = 81 | CES63 = 83 | CES88 = 85 |
| CES14 = 74 | CES39 = 93 | CES64 = 83 | CES89 = 80 |
| CES15 = 71 | CES40 = 88 | CES65 = 77 | CES90 = 83 |
| CES16 = 46 | CES41 = 89 | CES66 = 81 | CES91 = 89 |
| CES17 = 48 | CES42 = 82 | CES67 = 80 | CES92 = 73 |
| CES18 = 55 | CES43 = 80 | CES68 = 83 | CES93 = 85 |
| CES19 = 70 | CES44 = 99 | CES69 = 89 | CES94 = 67 |
| CES20 = 64 | CES45 = 87 | CES70 = 75 | CES95 = 78 |
| CES21 = 85 | CES46 = 85 | CES71 = 73 | CES96 = 84 |
| CES22 = 77 | CES47 = 82 | CES72 = 91 | CES97 = 87 |
| CES23 = 91 | CES48 = 78 | CES73 = 67 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 74 |
| CES25 = 71 | CES50 = 91 | CES75 = 70 | |

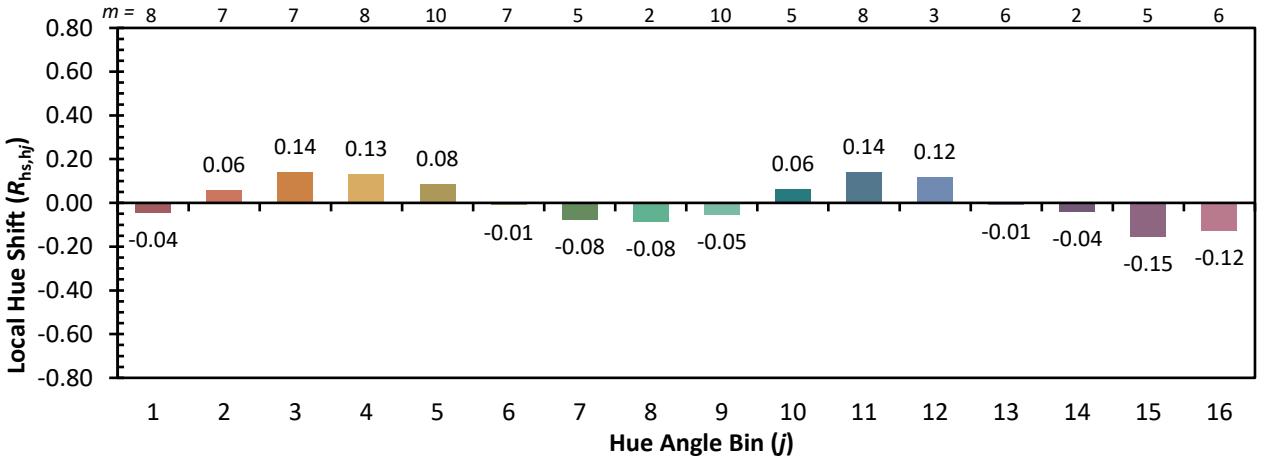


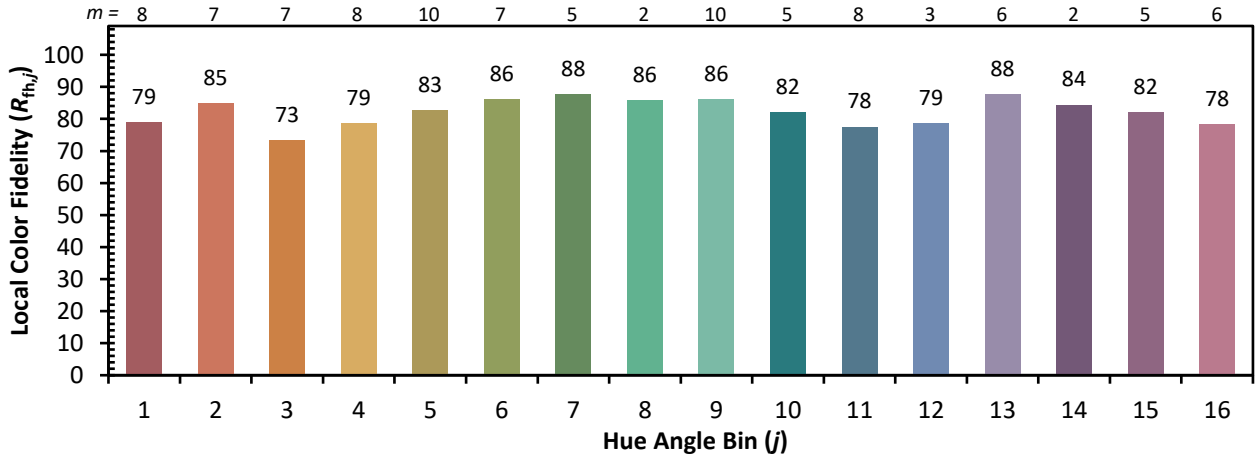
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## Color Rendition by Hue-Angle Bin



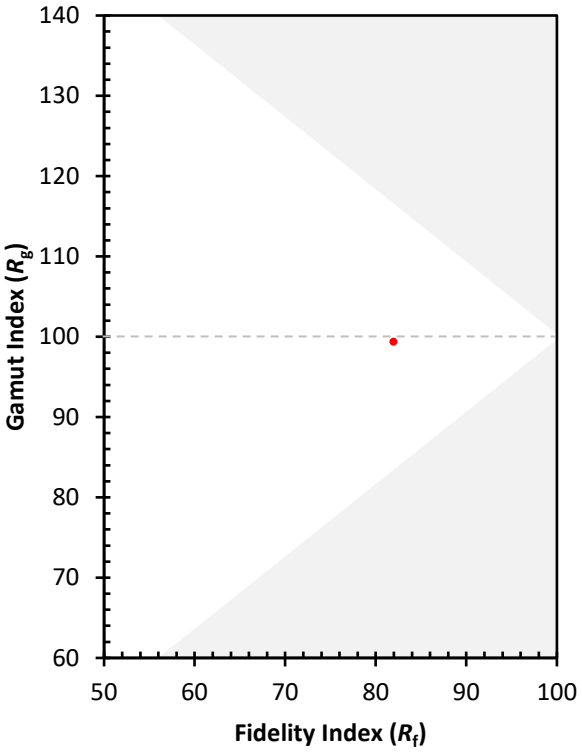



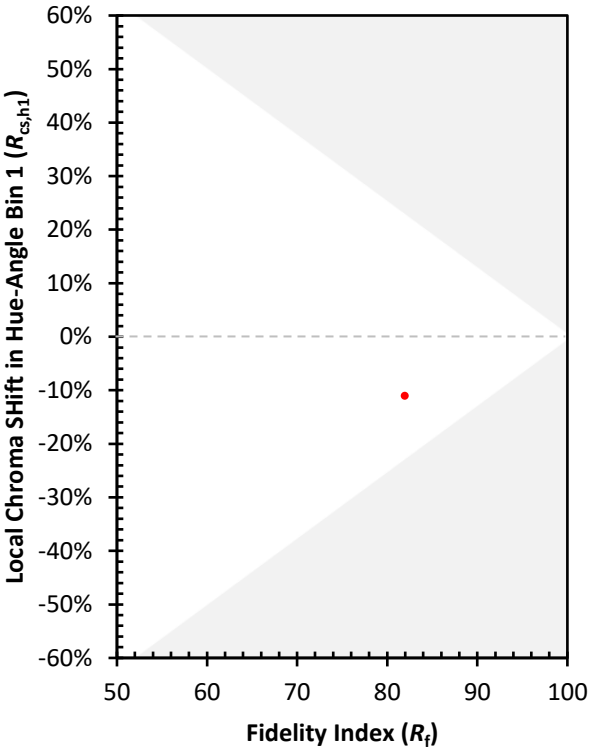



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## Measure Comparisons




(END OF REPORT)