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: P1501914

Luminaire Tested: GSS-SB4B-830-U-T2LG-HSS

Issue Date: 07/20/2026

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501914 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4B-830-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (104) 3000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 15984.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 108.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

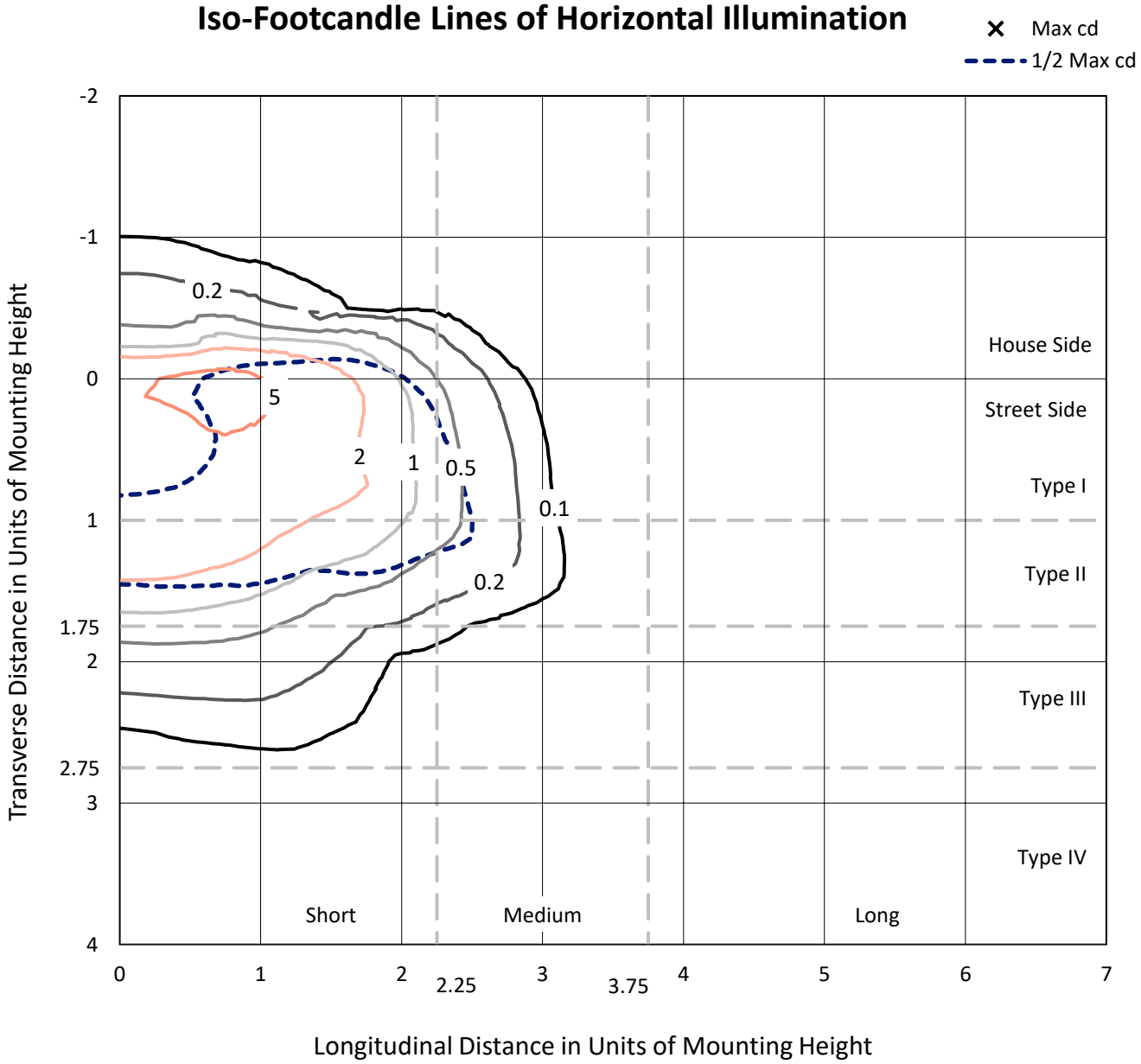
| | |
|---|---|
| Input Watts (W): | 148 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



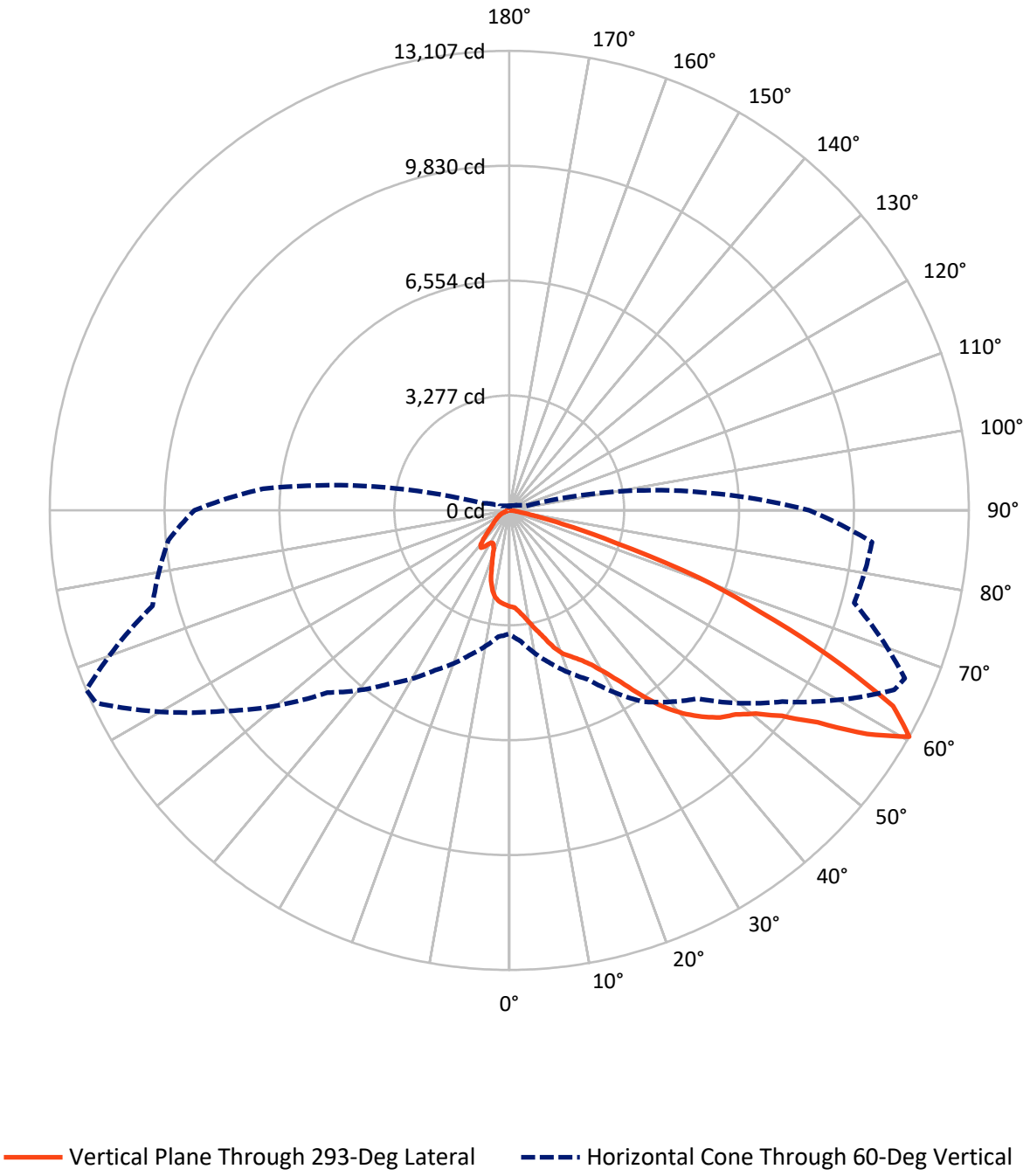

Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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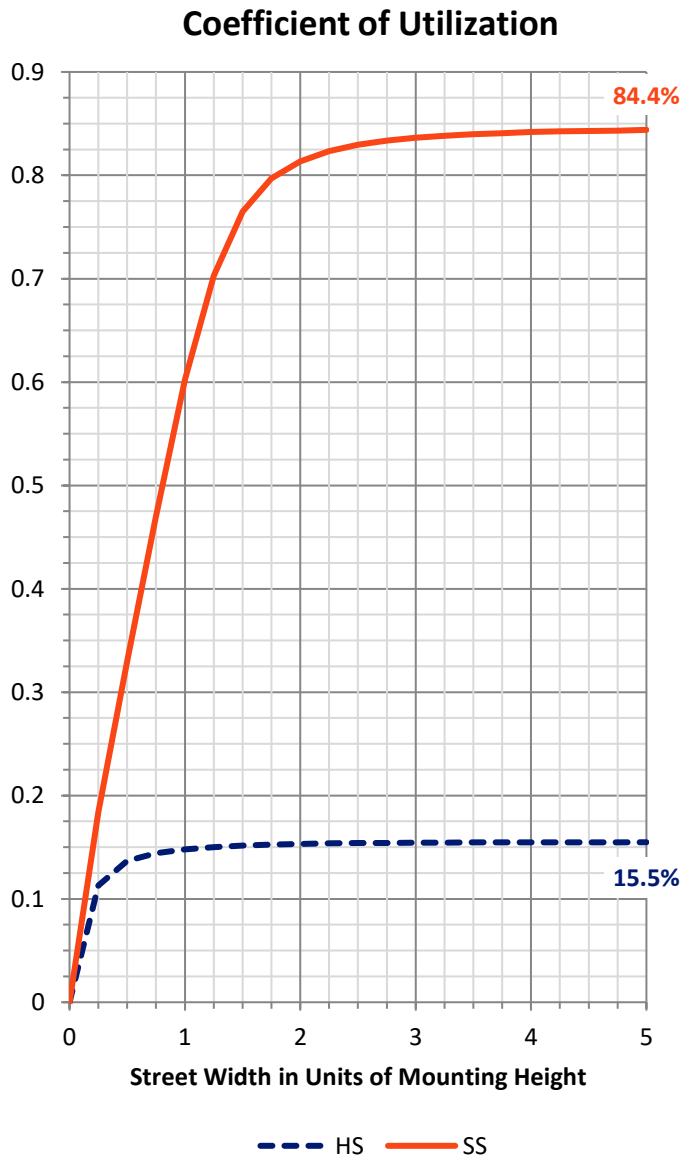
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2494.0 | 0.0 | 2494.0 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 13490.7 | 0.0 | 13490.7 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 15984.7 | 0.0 | 15984.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 248.0 | 1.6 |
| 10°-20° | 624.8 | 3.9 |
| 20°-30° | 1166.3 | 7.3 |
| 30°-40° | 2312.9 | 14.5 |
| 40°-50° | 3687.7 | 23.1 |
| 50°-60° | 4405.8 | 27.6 |
| 60°-70° | 2888.3 | 18.1 |
| 70°-80° | 605.1 | 3.8 |
| 80°-90° | 45.8 | 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° | 15984.7 | 100.0 |
| 0°-180° | 15984.7 | 100.0 |



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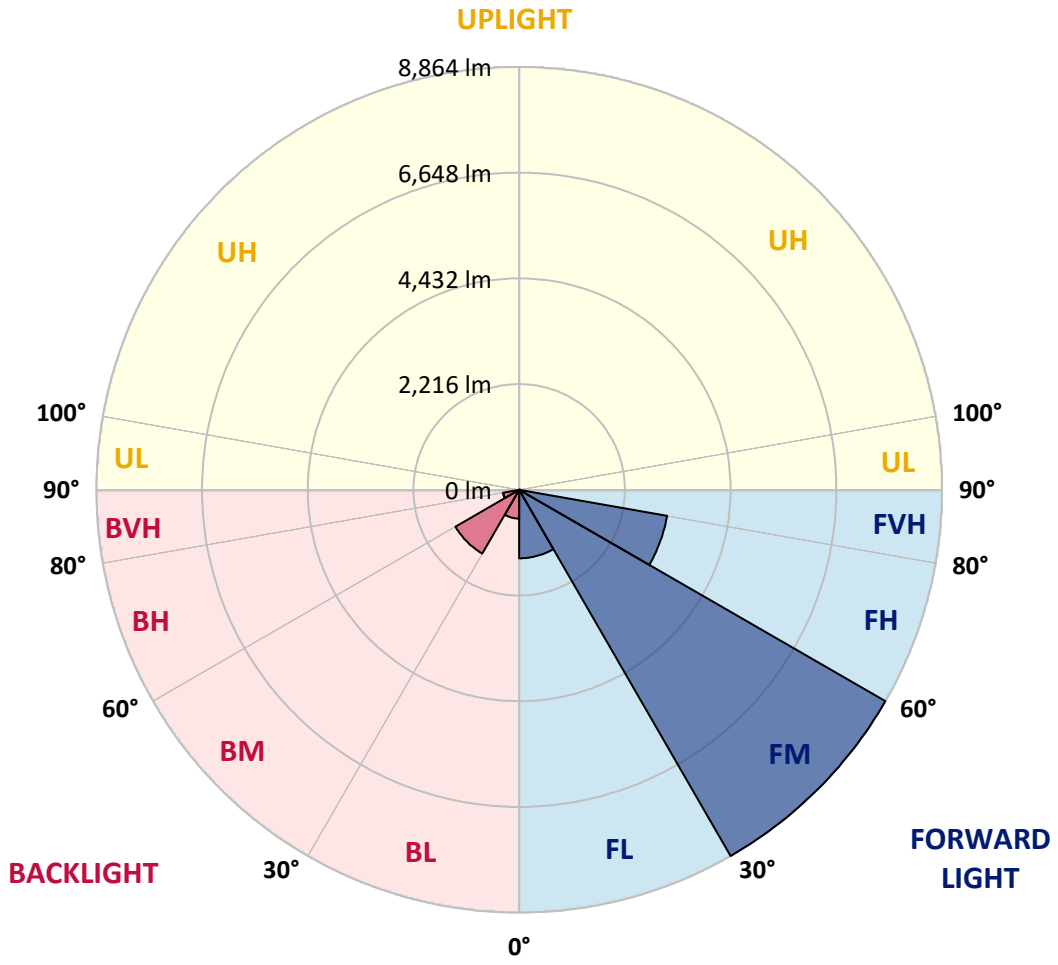
Scaled Data Report

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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°) | 1435.8 | 9.0 | | | |
| FM | (30°-60°) | 8864.1 | 55.5 | | | |
| FH | (60°-80°) | 3148.9 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 41.9 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 603.4 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1542.3 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 344.5 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.8 | 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° | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 |
| 2.5° | 2878.4 | 2869.4 | 2856.0 | 2860.5 | 2856.0 | 2838.1 | 2811.2 | 2788.9 | 2806.8 | 2779.9 | 2762.0 |
| 5° | 2963.4 | 2963.4 | 2954.5 | 2954.5 | 2959.0 | 2950.0 | 2932.1 | 2900.8 | 2905.2 | 2882.9 | 2824.7 |
| 7.5° | 2963.4 | 2950.0 | 2972.4 | 2994.8 | 3035.1 | 3057.5 | 3066.4 | 3048.5 | 3057.5 | 3012.7 | 2936.6 |
| 10° | 2788.9 | 2779.9 | 2838.1 | 2923.2 | 3039.5 | 3142.5 | 3209.7 | 3214.1 | 3227.6 | 3182.8 | 3093.3 |
| 12.5° | 2417.3 | 2399.4 | 2515.8 | 2676.9 | 2914.2 | 3151.5 | 3339.5 | 3411.1 | 3442.4 | 3424.5 | 3299.2 |
| 15° | 2072.6 | 2095.0 | 2175.6 | 2350.2 | 2668.0 | 3030.6 | 3411.1 | 3648.3 | 3693.1 | 3715.5 | 3567.8 |
| 17.5° | 2036.8 | 2041.3 | 2068.1 | 2153.2 | 2394.9 | 2833.6 | 3420.0 | 3894.6 | 3957.2 | 4055.7 | 3854.3 |
| 20° | 2135.3 | 2126.3 | 2153.2 | 2180.1 | 2296.4 | 2659.0 | 3335.0 | 4131.8 | 4252.7 | 4463.1 | 4243.7 |
| 22.5° | 2318.8 | 2318.8 | 2332.3 | 2350.2 | 2408.4 | 2645.6 | 3299.2 | 4351.2 | 4557.1 | 4986.8 | 4731.7 |
| 25° | 2627.7 | 2591.9 | 2600.8 | 2578.5 | 2627.7 | 2806.8 | 3379.8 | 4525.7 | 4807.8 | 5568.8 | 5313.6 |
| 27.5° | 3106.7 | 3120.1 | 3039.5 | 2918.7 | 2945.5 | 3097.7 | 3576.7 | 4722.7 | 5067.4 | 6173.1 | 5904.5 |
| 30° | 3769.2 | 3746.8 | 3697.6 | 3460.3 | 3352.9 | 3487.2 | 3939.3 | 5045.0 | 5416.6 | 6938.6 | 6692.4 |
| 32.5° | 4288.5 | 4351.2 | 4266.1 | 4100.5 | 3934.8 | 3975.1 | 4449.6 | 5564.3 | 5841.8 | 7641.4 | 7507.1 |
| 35° | 4915.2 | 4915.2 | 4933.1 | 4700.3 | 4588.4 | 4579.5 | 5089.8 | 6128.3 | 6405.9 | 8277.1 | 8371.1 |
| 37.5° | 5761.3 | 5703.1 | 5604.6 | 5344.9 | 5259.9 | 5371.8 | 5689.6 | 6710.3 | 7010.2 | 8791.8 | 9042.5 |
| 40° | 6473.0 | 6513.3 | 6499.9 | 6123.9 | 5958.2 | 6079.1 | 6361.1 | 7207.2 | 7439.9 | 9123.1 | 9584.2 |
| 42.5° | 7171.4 | 7193.7 | 7135.5 | 6956.5 | 6714.8 | 6723.7 | 6956.5 | 7583.2 | 7820.4 | 9440.9 | 10094.5 |
| 45° | 7695.1 | 7690.6 | 7650.3 | 7605.6 | 7462.3 | 7314.6 | 7354.9 | 7999.5 | 8205.4 | 9543.9 | 10372.1 |
| 47.5° | 7860.7 | 7896.5 | 7932.4 | 8057.7 | 8156.2 | 7923.4 | 7717.5 | 8223.3 | 8411.3 | 9526.0 | 10475.0 |
| 50° | 7708.5 | 7784.6 | 7959.2 | 8147.2 | 8483.0 | 8465.1 | 8021.9 | 8465.1 | 8648.6 | 9624.5 | 10595.9 |
| 52.5° | 7368.3 | 7444.4 | 7677.2 | 8017.4 | 8523.3 | 8773.9 | 8585.9 | 8872.4 | 9087.3 | 9875.2 | 10846.6 |
| 55° | 6576.0 | 6607.3 | 7086.3 | 7534.0 | 8321.8 | 8639.6 | 9190.3 | 9561.8 | 9740.9 | 10179.6 | 11177.8 |
| 57.5° | 5353.9 | 5430.0 | 5900.0 | 6629.7 | 7757.8 | 8286.0 | 9534.9 | 10739.1 | 10734.7 | 10470.5 | 11249.4 |
| 60° | *3523.0* | *3746.8* | *4512.3* | *5318.1* | *6665.5* | *7592.1* | *9512.6* | *12117.9* | *12256.7* | *10184.0* | *10385.5* |
| 62.5° | 2690.4 | 2784.4 | 3218.6 | 3890.1 | 4933.1 | 6294.0 | 9364.8 | 12529.7 | 12637.2 | 9414.1 | 9091.8 |
| 65° | 2023.4 | 2139.8 | 2556.1 | 3155.9 | 3482.7 | 4266.1 | 8397.9 | 10891.3 | 11039.1 | 8402.4 | 7068.4 |
| 67.5° | 1240.0 | 1334.0 | 1889.1 | 2591.9 | 2636.7 | 2650.1 | 5667.3 | 8250.2 | 8303.9 | 6777.4 | 4758.5 |
| 70° | 828.2 | 922.2 | 1307.1 | 1992.0 | 2099.5 | 1526.5 | 3111.2 | 6244.7 | 6240.2 | 4637.7 | 2891.8 |
| 72.5° | 479.0 | 523.8 | 828.2 | 1468.3 | 1651.8 | 971.4 | 1553.3 | 3970.7 | 3796.1 | 2180.1 | 1351.9 |
| 75° | 273.1 | 304.4 | 456.6 | 944.5 | 1159.4 | 617.8 | 613.3 | 2126.3 | 1880.1 | 1123.6 | 738.6 |
| 77.5° | 165.6 | 179.1 | 250.7 | 617.8 | 698.3 | 416.3 | 340.2 | 989.3 | 953.5 | 658.0 | 389.5 |
| 80° | 80.6 | 94.0 | 152.2 | 362.6 | 447.7 | 223.8 | 205.9 | 389.5 | 416.3 | 362.6 | 205.9 |
| 82.5° | 26.9 | 35.8 | 85.1 | 138.8 | 291.0 | 89.5 | 85.1 | 214.9 | 228.3 | 214.9 | 98.5 |
| 85° | 13.4 | 17.9 | 40.3 | 44.8 | 111.9 | 44.8 | 31.3 | 94.0 | 116.4 | 71.6 | 40.3 |
| 87.5° | 0.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 9.0 | 9.0 | 9.0 | 9.0 |
| 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 |
| 2.5° | 2748.6 | 2739.6 | 2721.7 | 2690.4 | 2685.9 | 2663.5 | 2627.7 | 2605.3 | 2587.4 | 2600.8 | 2605.3 |
| 5° | 2797.8 | 2775.4 | 2721.7 | 2636.7 | 2547.1 | 2457.6 | 2372.5 | 2274.1 | 2206.9 | 2198.0 | 2180.1 |
| 7.5° | 2887.3 | 2842.6 | 2726.2 | 2560.6 | 2332.3 | 2117.4 | 1866.7 | 1625.0 | 1504.1 | 1486.2 | 1445.9 |
| 10° | 3030.6 | 2954.5 | 2762.0 | 2426.3 | 1987.6 | 1539.9 | 1159.4 | 899.8 | 752.1 | 725.2 | 734.1 |
| 12.5° | 3200.7 | 3093.3 | 2766.5 | 2198.0 | 1513.1 | 953.5 | 658.0 | 559.6 | 528.2 | 514.8 | 514.8 |
| 15° | 3420.0 | 3263.4 | 2762.0 | 1902.5 | 1020.6 | 613.3 | 528.2 | 487.9 | 474.5 | 465.6 | 465.6 |
| 17.5° | 3697.6 | 3491.7 | 2730.7 | 1459.3 | 689.4 | 532.7 | 483.5 | 452.1 | 434.2 | 429.7 | 429.7 |
| 20° | 4024.4 | 3746.8 | 2659.0 | 1087.8 | 577.5 | 496.9 | 456.6 | 416.3 | 402.9 | 393.9 | 393.9 |
| 22.5° | 4440.7 | 4055.7 | 2520.3 | 846.1 | 546.1 | 474.5 | 429.7 | 385.0 | 371.5 | 362.6 | 362.6 |
| 25° | 4924.2 | 4449.6 | 2336.7 | 761.0 | 541.7 | 456.6 | 402.9 | 358.1 | 344.7 | 340.2 | 335.7 |
| 27.5° | 5497.1 | 4870.4 | 2166.6 | 765.5 | 550.6 | 443.2 | 376.0 | 335.7 | 322.3 | 308.9 | 313.4 |
| 30° | 6173.1 | 5304.7 | 2027.9 | 819.2 | 559.6 | 429.7 | 358.1 | 322.3 | 308.9 | 291.0 | 291.0 |
| 32.5° | 6840.1 | 5815.0 | 2014.4 | 917.7 | 590.9 | 420.8 | 340.2 | 304.4 | 291.0 | 277.5 | 277.5 |
| 35° | 7525.0 | 6280.5 | 2090.5 | 1047.5 | 653.6 | 407.4 | 317.8 | 286.5 | 273.1 | 264.1 | 259.6 |
| 37.5° | 8178.6 | 6652.1 | 2162.2 | 1128.1 | 617.8 | 349.2 | 291.0 | 264.1 | 250.7 | 232.8 | 232.8 |
| 40° | 8612.8 | 6853.5 | 2175.6 | 1065.4 | 510.3 | 313.4 | 264.1 | 237.3 | 219.3 | 210.4 | 205.9 |
| 42.5° | 8930.6 | 6983.3 | 2023.4 | 864.0 | 443.2 | 286.5 | 241.7 | 214.9 | 201.4 | 192.5 | 192.5 |
| 45° | 9060.4 | 6938.6 | 1763.7 | 658.0 | 407.4 | 264.1 | 219.3 | 197.0 | 188.0 | 179.1 | 179.1 |
| 47.5° | 9042.5 | 6732.7 | 1499.6 | 528.2 | 371.5 | 241.7 | 205.9 | 188.0 | 179.1 | 170.1 | 165.6 |
| 50° | 9011.2 | 6540.2 | 1231.0 | 470.0 | 331.3 | 228.3 | 192.5 | 179.1 | 165.6 | 156.7 | 152.2 |
| 52.5° | 9217.1 | 6477.5 | 1020.6 | 429.7 | 308.9 | 219.3 | 188.0 | 170.1 | 156.7 | 147.7 | 147.7 |
| 55° | 9423.0 | 6504.4 | 801.3 | 402.9 | 286.5 | 214.9 | 183.5 | 165.6 | 152.2 | 138.8 | 138.8 |
| 57.5° | 9409.6 | 6388.0 | 608.8 | 376.0 | 268.6 | 210.4 | 179.1 | 161.2 | 138.8 | 129.8 | 129.8 |
| 60° | *8554.6* | *5698.6* | *474.5* | *344.7* | *246.2* | *197.0* | *165.6* | *152.2* | *129.8* | *116.4* | *116.4* |
| 62.5° | 7234.0 | 4481.0 | 389.5 | 304.4 | 219.3 | 179.1 | 152.2 | 138.8 | 116.4 | 94.0 | 94.0 |
| 65° | 5344.9 | 3232.0 | 313.4 | 264.1 | 201.4 | 156.7 | 138.8 | 120.9 | 94.0 | 76.1 | 71.6 |
| 67.5° | 3617.0 | 1987.6 | 250.7 | 219.3 | 179.1 | 134.3 | 116.4 | 103.0 | 85.1 | 62.7 | 58.2 |
| 70° | 2144.2 | 1056.5 | 183.5 | 152.2 | 134.3 | 98.5 | 98.5 | 89.5 | 71.6 | 53.7 | 49.2 |
| 72.5° | 1020.6 | 367.1 | 134.3 | 111.9 | 103.0 | 71.6 | 76.1 | 76.1 | 58.2 | 40.3 | 35.8 |
| 75° | 519.3 | 179.1 | 89.5 | 80.6 | 67.1 | 53.7 | 62.7 | 58.2 | 40.3 | 26.9 | 26.9 |
| 77.5° | 295.4 | 125.3 | 62.7 | 53.7 | 44.8 | 35.8 | 40.3 | 35.8 | 22.4 | 13.4 | 13.4 |
| 80° | 165.6 | 89.5 | 40.3 | 35.8 | 26.9 | 22.4 | 22.4 | 17.9 | 13.4 | 4.5 | 4.5 |
| 82.5° | 62.7 | 53.7 | 26.9 | 17.9 | 13.4 | 13.4 | 9.0 | 9.0 | 4.5 | 0.0 | 0.0 |
| 85° | 26.9 | 13.4 | 13.4 | 9.0 | 9.0 | 4.5 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.5 | 4.5 | 4.5 | 4.5 | 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° | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 |
| 2.5° | 2569.5 | 2578.5 | 2587.4 | 2623.2 | 2632.2 | 2659.0 | 2681.4 | 2708.3 | 2712.8 | 2748.6 | 2748.6 |
| 5° | 2215.9 | 2211.4 | 2287.5 | 2399.4 | 2471.0 | 2569.5 | 2645.6 | 2726.2 | 2771.0 | 2829.1 | 2856.0 |
| 7.5° | 1468.3 | 1580.2 | 1750.3 | 1947.3 | 2202.4 | 2439.7 | 2618.8 | 2775.4 | 2882.9 | 2950.0 | 2976.9 |
| 10° | 729.7 | 792.3 | 971.4 | 1293.7 | 1727.9 | 2211.4 | 2591.9 | 2882.9 | 3057.5 | 3133.6 | 3182.8 |
| 12.5° | 514.8 | 528.2 | 559.6 | 734.1 | 1150.5 | 1835.4 | 2506.8 | 2999.3 | 3241.0 | 3384.2 | 3446.9 |
| 15° | 461.1 | 470.0 | 483.5 | 532.7 | 711.8 | 1369.8 | 2354.6 | 3129.1 | 3527.5 | 3693.1 | 3773.7 |
| 17.5° | 425.3 | 429.7 | 443.2 | 483.5 | 559.6 | 931.1 | 2108.4 | 3267.8 | 3872.2 | 4073.6 | 4225.8 |
| 20° | 393.9 | 393.9 | 407.4 | 456.6 | 519.3 | 716.2 | 1754.8 | 3424.5 | 4310.9 | 4601.8 | 4754.0 |
| 22.5° | 358.1 | 367.1 | 376.0 | 429.7 | 505.8 | 653.6 | 1423.5 | 3545.4 | 4798.8 | 5152.5 | 5331.5 |
| 25° | 331.3 | 340.2 | 349.2 | 402.9 | 492.4 | 653.6 | 1231.0 | 3621.5 | 5344.9 | 5765.7 | 6011.9 |
| 27.5° | 308.9 | 317.8 | 331.3 | 385.0 | 479.0 | 680.4 | 1154.9 | 3643.9 | 5940.3 | 6486.5 | 6817.7 |
| 30° | 291.0 | 299.9 | 313.4 | 371.5 | 487.9 | 711.8 | 1181.8 | 3612.5 | 6544.6 | 7229.5 | 7623.5 |
| 32.5° | 273.1 | 282.0 | 295.4 | 358.1 | 487.9 | 752.1 | 1271.3 | 3549.9 | 7131.1 | 7972.6 | 8456.1 |
| 35° | 259.6 | 264.1 | 268.6 | 322.3 | 443.2 | 747.6 | 1383.2 | 3487.2 | 7722.0 | 8706.8 | 9270.8 |
| 37.5° | 232.8 | 237.3 | 246.2 | 277.5 | 353.6 | 680.4 | 1405.6 | 3411.1 | 8187.5 | 9324.6 | 9946.8 |
| 40° | 205.9 | 214.9 | 223.8 | 255.2 | 295.4 | 550.6 | 1307.1 | 3249.9 | 8433.7 | 9799.1 | 10555.6 |
| 42.5° | 188.0 | 192.5 | 201.4 | 232.8 | 273.1 | 438.7 | 1096.7 | 2967.9 | 8653.1 | 10121.4 | 10998.8 |
| 45° | 174.6 | 179.1 | 188.0 | 210.4 | 255.2 | 380.5 | 864.0 | 2623.2 | 8671.0 | 10224.3 | 11213.6 |
| 47.5° | 161.2 | 165.6 | 170.1 | 192.5 | 246.2 | 340.2 | 662.5 | 2309.9 | 8666.5 | 10358.6 | 11397.2 |
| 50° | 152.2 | 156.7 | 165.6 | 183.5 | 232.8 | 304.4 | 546.1 | 2054.7 | 8854.5 | 10649.6 | 11768.7 |
| 52.5° | 147.7 | 147.7 | 161.2 | 179.1 | 219.3 | 277.5 | 456.6 | 1826.4 | 8953.0 | 10936.1 | 12037.3 |
| 55° | 138.8 | 143.2 | 152.2 | 170.1 | 205.9 | 264.1 | 389.5 | 1539.9 | 8997.8 | 11079.3 | 12086.6 |
| 57.5° | 129.8 | 134.3 | 147.7 | 161.2 | 197.0 | 250.7 | 335.7 | 1150.5 | 8357.6 | 10331.8 | 11262.9 |
| 60° | *116.4* | *125.3* | *143.2* | *156.7* | *183.5* | *228.3* | *295.4* | *778.9* | *7050.5* | *8979.9* | *9758.8* |
| 62.5° | 94.0 | 111.9 | 129.8 | 138.8 | 165.6 | 192.5 | 250.7 | 519.3 | 5631.4 | 7431.0 | 8317.3 |
| 65° | 71.6 | 94.0 | 107.4 | 120.9 | 138.8 | 161.2 | 210.4 | 353.6 | 3755.8 | 5000.3 | 5998.5 |
| 67.5° | 62.7 | 80.6 | 89.5 | 98.5 | 116.4 | 138.8 | 170.1 | 246.2 | 2278.5 | 3003.7 | 3988.6 |
| 70° | 49.2 | 67.1 | 76.1 | 71.6 | 89.5 | 107.4 | 120.9 | 165.6 | 1163.9 | 1629.4 | 2269.6 |
| 72.5° | 35.8 | 53.7 | 58.2 | 58.2 | 53.7 | 76.1 | 89.5 | 116.4 | 505.8 | 792.3 | 1029.6 |
| 75° | 26.9 | 35.8 | 40.3 | 35.8 | 31.3 | 49.2 | 62.7 | 76.1 | 331.3 | 474.5 | 599.9 |
| 77.5° | 13.4 | 13.4 | 22.4 | 22.4 | 13.4 | 26.9 | 31.3 | 44.8 | 188.0 | 277.5 | 344.7 |
| 80° | 4.5 | 0.0 | 0.0 | 4.5 | 0.0 | 9.0 | 13.4 | 22.4 | 98.5 | 147.7 | 214.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 49.2 | 44.8 | 111.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 26.9 |
| 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: P1501914
CATALOG NUMBER: GSS-SB4B-830-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2739.6 | *2739.6* | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 | 2739.6 |
| 2.5° | 2771.0 | *2771.0* | 2788.9 | 2815.7 | 2829.1 | 2838.1 | 2842.6 | 2851.5 | 2887.3 | 2878.4 |
| 5° | 2887.3 | *2896.3* | 2909.7 | 2936.6 | 2967.9 | 2959.0 | 2959.0 | 2959.0 | 2981.3 | 2963.4 |
| 7.5° | 3039.5 | *3066.4* | 3070.9 | 3102.2 | 3079.8 | 3035.1 | 3008.2 | 2967.9 | 2963.4 | 2963.4 |
| 10° | 3285.8 | *3276.8* | 3276.8 | 3236.5 | 3155.9 | 3026.1 | 2909.7 | 2829.1 | 2784.4 | 2788.9 |
| 12.5° | 3549.9 | *3514.1* | 3518.5 | 3370.8 | 3142.5 | 2856.0 | 2618.8 | 2444.2 | 2430.7 | 2417.3 |
| 15° | 3876.7 | *3782.6* | 3764.7 | 3424.5 | 2941.1 | 2502.4 | 2269.6 | 2130.8 | 2086.0 | 2072.6 |
| 17.5° | 4342.2 | *4105.0* | 4019.9 | 3330.5 | 2676.9 | 2283.0 | 2108.4 | 2045.8 | 2041.3 | 2036.8 |
| 20° | 4834.6 | *4364.6* | 4203.4 | 3191.7 | 2587.4 | 2287.5 | 2157.7 | 2139.8 | 2130.8 | 2135.3 |
| 22.5° | 5407.6 | *4530.2* | 4324.3 | 3214.1 | 2668.0 | 2435.2 | 2332.3 | 2318.8 | 2309.9 | 2318.8 |
| 25° | 5998.5 | *4722.7* | 4467.5 | 3393.2 | 2909.7 | 2708.3 | 2587.4 | 2560.6 | 2587.4 | 2627.7 |
| 27.5° | 6593.9 | *4982.3* | 4749.6 | 3746.8 | 3299.2 | 3079.8 | 2963.4 | 3061.9 | 3102.2 | 3106.7 |
| 30° | 7122.1 | *5344.9* | 5130.1 | 4243.7 | 3742.4 | 3523.0 | 3545.4 | 3670.7 | 3720.0 | 3769.2 |
| 32.5° | 7605.6 | *5828.4* | 5662.8 | 4807.8 | 4315.3 | 4185.5 | 4172.1 | 4266.1 | 4319.8 | 4288.5 |
| 35° | 8093.5 | *6459.6* | 6298.4 | 5421.0 | 5018.2 | 4910.7 | 4798.8 | 4982.3 | 4964.4 | 4915.2 |
| 37.5° | 8554.6 | *7095.3* | 6947.5 | 6079.1 | 5662.8 | 5474.8 | 5456.9 | 5622.5 | 5770.2 | 5761.3 |
| 40° | 8885.9 | *7610.1* | 7431.0 | 6732.7 | 6338.7 | 6177.6 | 6271.6 | 6558.1 | 6522.3 | 6473.0 |
| 42.5° | 9190.3 | *8048.7* | 7887.6 | 7305.7 | 6893.8 | 6965.4 | 7050.5 | 7243.0 | 7220.6 | 7171.4 |
| 45° | 9333.5 | *8424.8* | 8286.0 | 7739.9 | 7538.4 | 7766.7 | 7762.3 | 7833.9 | 7713.0 | 7695.1 |
| 47.5° | 9534.9 | *8693.4* | 8550.1 | 8129.3 | 8308.4 | 8402.4 | 8138.3 | 8062.2 | 7950.3 | 7860.7 |
| 50° | 9906.5 | *9109.7* | 8966.4 | 8720.2 | 8872.4 | 8581.5 | 8259.1 | 8093.5 | 7865.2 | 7708.5 |
| 52.5° | 10340.7 | *9740.9* | 9615.5 | 9517.0 | 9091.8 | 8491.9 | 8080.1 | 7780.2 | 7502.6 | 7368.3 |
| 55° | 10886.9 | *10672.0* | 10582.4 | 10040.8 | 8894.8 | 8124.9 | 7641.4 | 7081.8 | 6701.3 | 6576.0 |
| 57.5° | 11065.9 | *12037.3* | 12006.0 | 10125.8 | 8344.2 | 7457.9 | 6584.9 | 5828.4 | 5434.5 | 5353.9 |
| 60° | *10537.7* | *13107.2* | *12995.3* | *9982.6* | *7345.9* | *6052.2* | *5031.6* | *4257.2* | *3617.0* | *3523.0* |
| 62.5° | 9861.7 | *12288.0* | 12247.7 | 9261.9 | 5595.6 | 4337.7 | 3760.3 | 3035.1 | 2762.0 | 2690.4 |
| 65° | 8447.2 | *10054.2* | 10072.1 | 7431.0 | 3540.9 | 3115.6 | 3088.8 | 2412.8 | 2077.1 | 2023.4 |
| 67.5° | 6504.4 | *7713.0* | 7587.7 | 4673.5 | 2063.7 | 2493.4 | 2466.6 | 1763.7 | 1275.8 | 1240.0 |
| 70° | 3800.5 | *5743.4* | 5541.9 | 2430.7 | 1365.3 | 2081.6 | 1898.0 | 1240.0 | 868.4 | 828.2 |
| 72.5° | 1678.7 | *3160.4* | 3393.2 | 1069.9 | 962.4 | 1656.3 | 1369.8 | 761.0 | 487.9 | 479.0 |
| 75° | 931.1 | *1566.8* | 1638.4 | 465.6 | 676.0 | 1177.3 | 828.2 | 425.3 | 277.5 | 273.1 |
| 77.5° | 559.6 | *693.9* | 676.0 | 299.9 | 505.8 | 752.1 | 501.4 | 241.7 | 174.6 | 165.6 |
| 80° | 313.4 | *317.8* | 268.6 | 219.3 | 299.9 | 420.8 | 282.0 | 152.2 | 80.6 | 80.6 |
| 82.5° | 192.5 | *174.6* | 138.8 | 67.1 | 80.6 | 255.2 | 103.0 | 85.1 | 26.9 | 26.9 |
| 85° | 80.6 | *53.7* | 35.8 | 13.4 | 31.3 | 67.1 | 35.8 | 40.3 | 13.4 | 13.4 |
| 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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

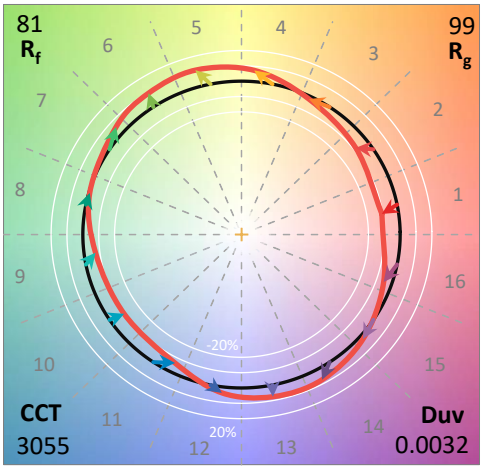
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-9 |
| 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-830-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3055 |
| CIE u': | 0.2475 |
| CIE v': | 0.5247 |
| Duv: | 0.0032 |
| CIE x: | 0.4377 |
| CIE y: | 0.4124 |
| CIE z: | 0.1499 |
| Peak Wavelength (nm): | 604 |
| Dominant Wavelength (nm): | 581 |
| Purity: | 55.16339 |
| Rf: | 81.5 |
| Rg: | 99.2 |

| | |
|---|---|
| CRI (Ra): | 80.9 |
| R1: | 79.5 |
| R2: | 85.6 |
| R3: | 92.1 |
| R4: | 82.4 |
| R5: | 78.9 |
| R6: | 81.7 |
| R7: | 85.1 |
| R8: | 61.9 |
| R9: | 6.8 |
| R10: | 67.1 |
| R11: | 82.5 |
| R12: | 63.4 |
| R13: | 80.2 |
| R14: | 95.1 |
| R15: | 71.7 |




## Test Conditions

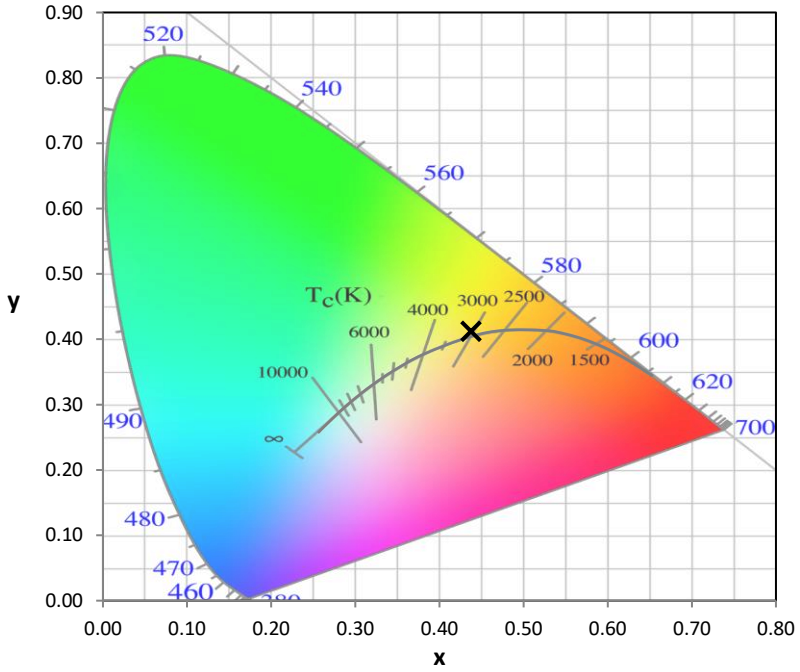
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-9

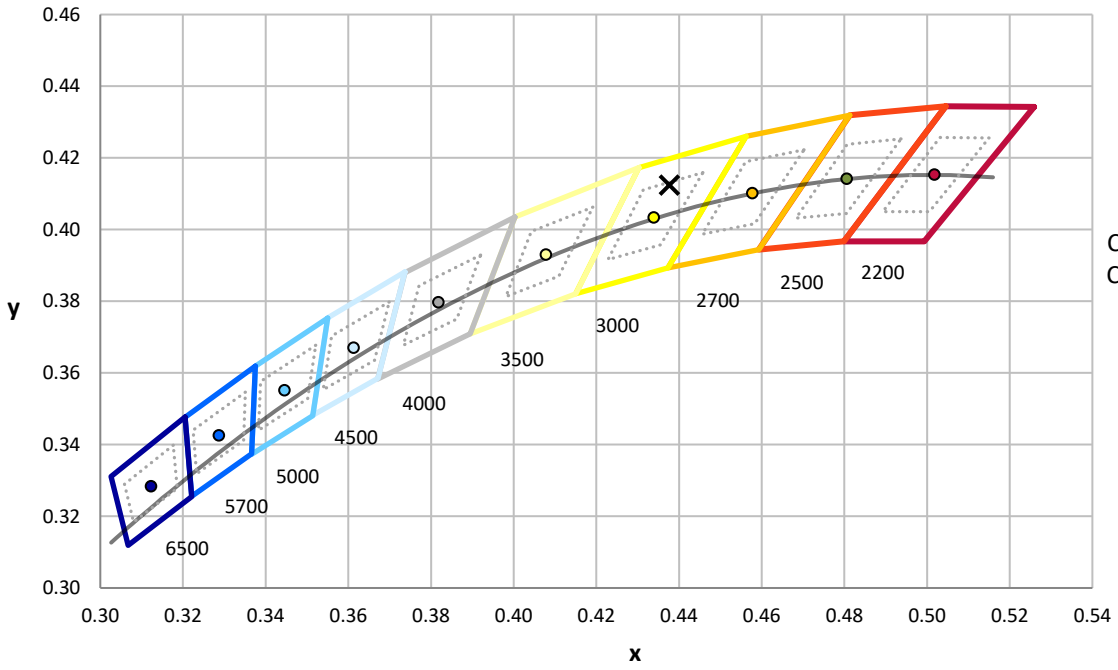
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-9

## CIE 1931 Chromaticity Diagram




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

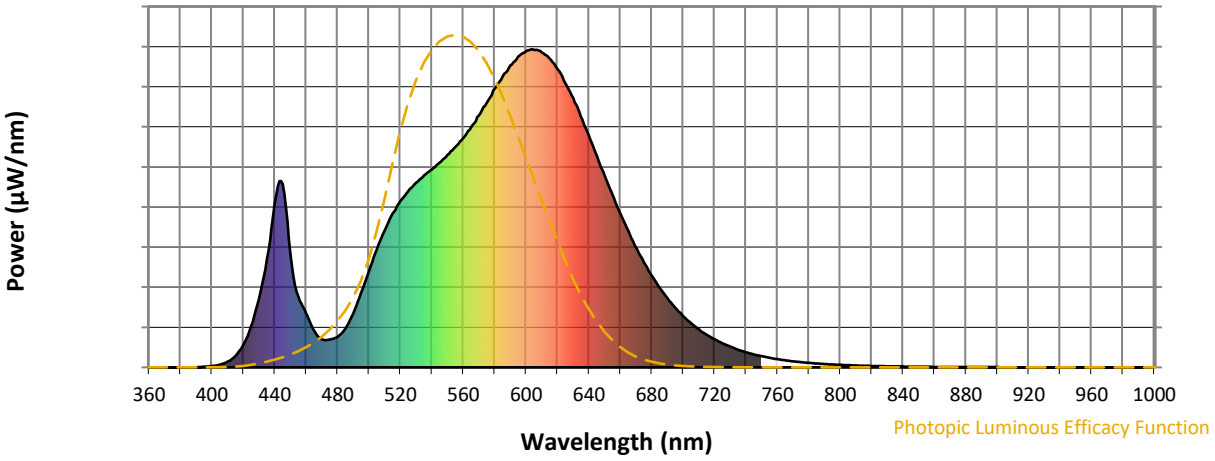



CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

## Photopic Flux vs. Wavelength

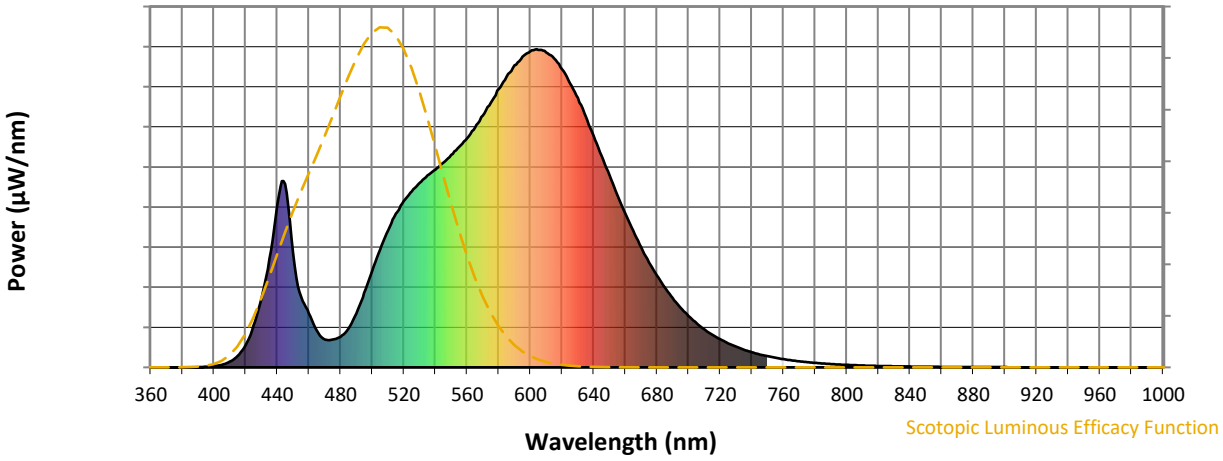



## Photopic Lumens: NR

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-9

## Scotopic Flux vs. Wavelength

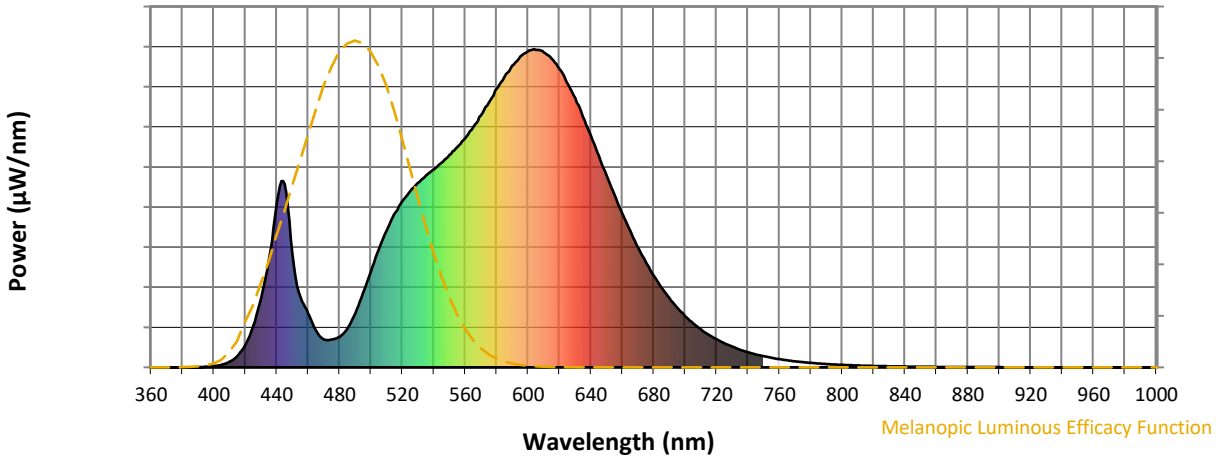



**Scotopic Lumens: NR** **S/P: 1.28**

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.33**

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

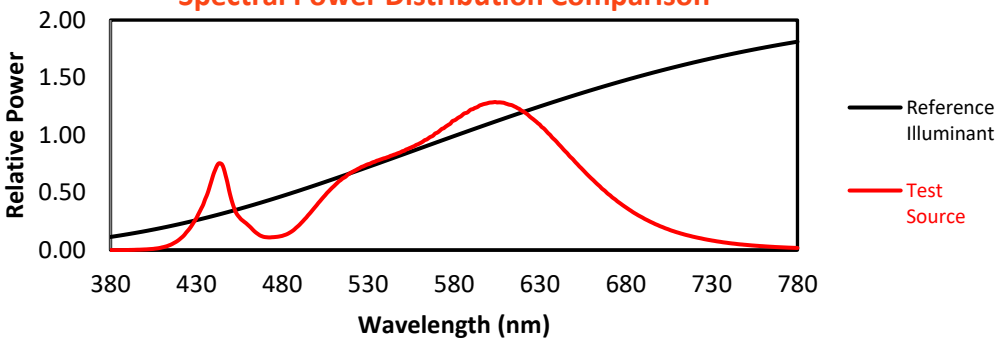
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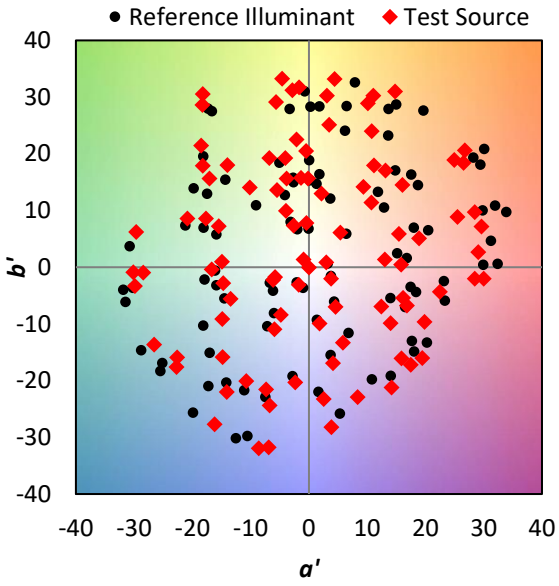
## Summary

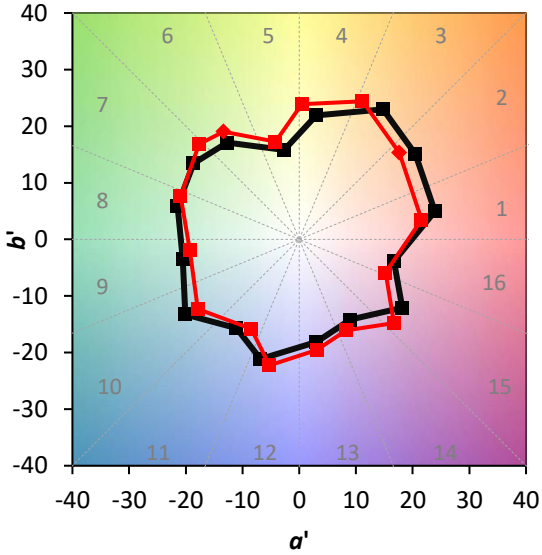
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 80.9
$R_9$ = 6.8

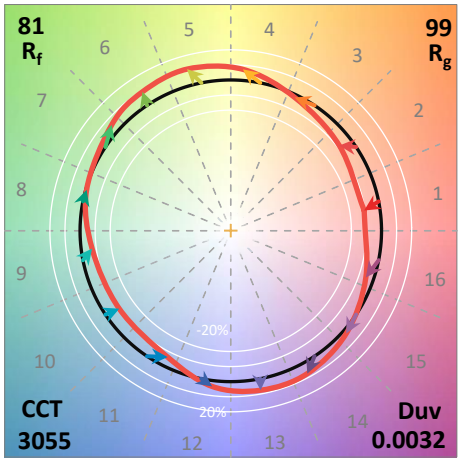
## Spectral Power Distribution Comparison

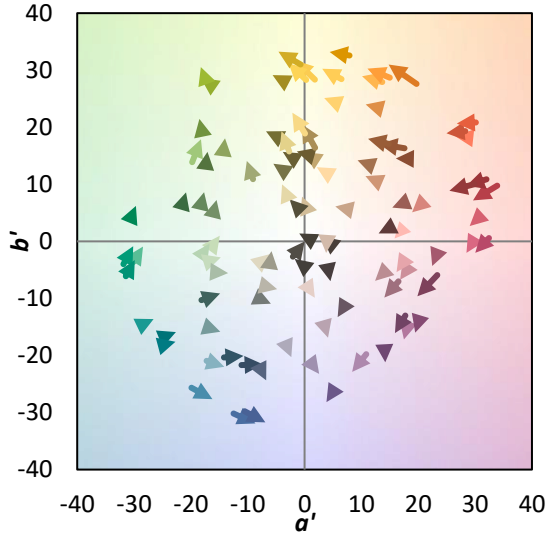



## Color Vector Graphics



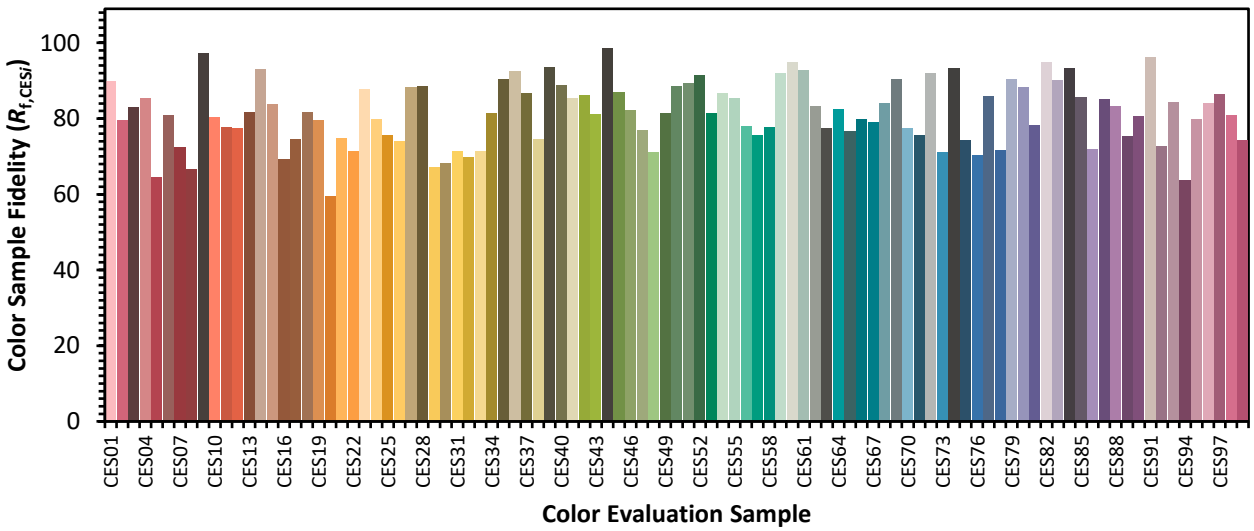



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## Individual Sample Fidelity Index ($R_{f,i}$)

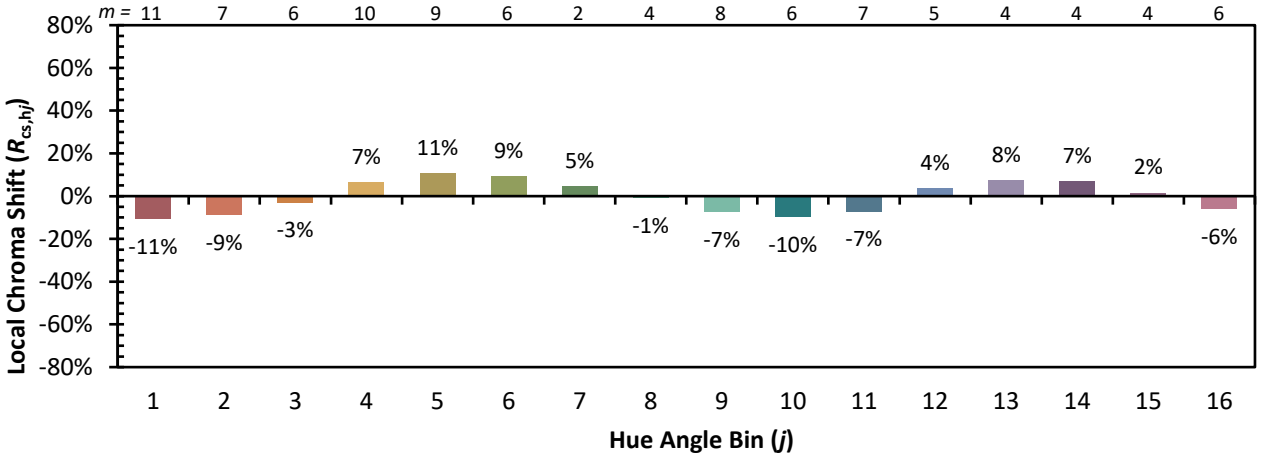
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 91 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 93 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 90 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 77 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |

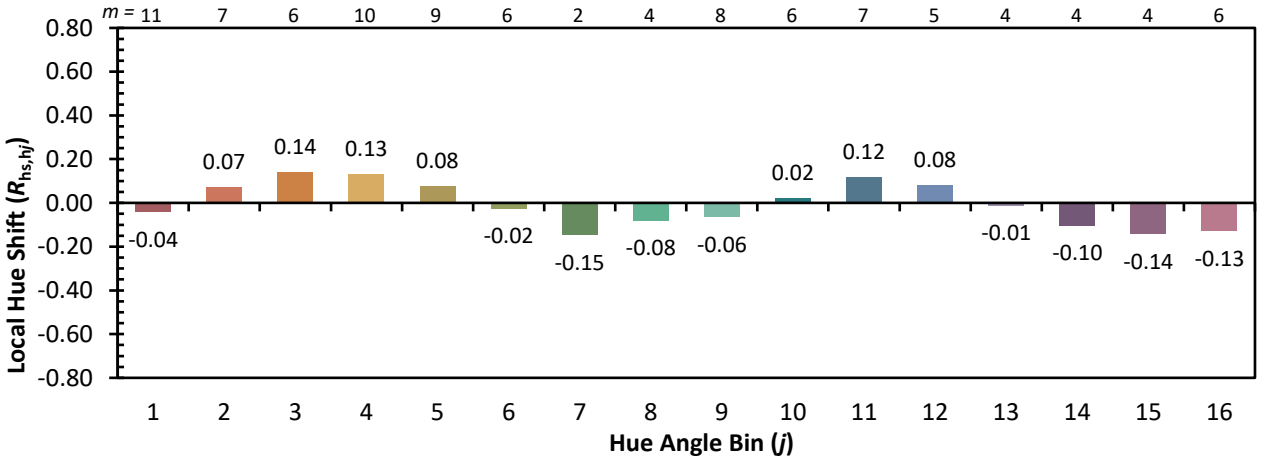


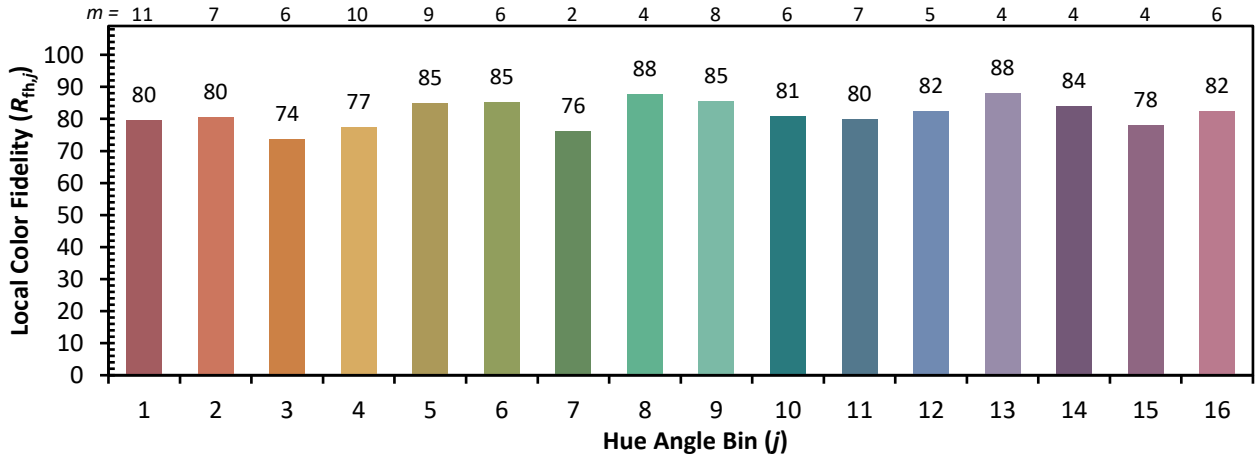
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## Color Rendition by Hue-Angle Bin



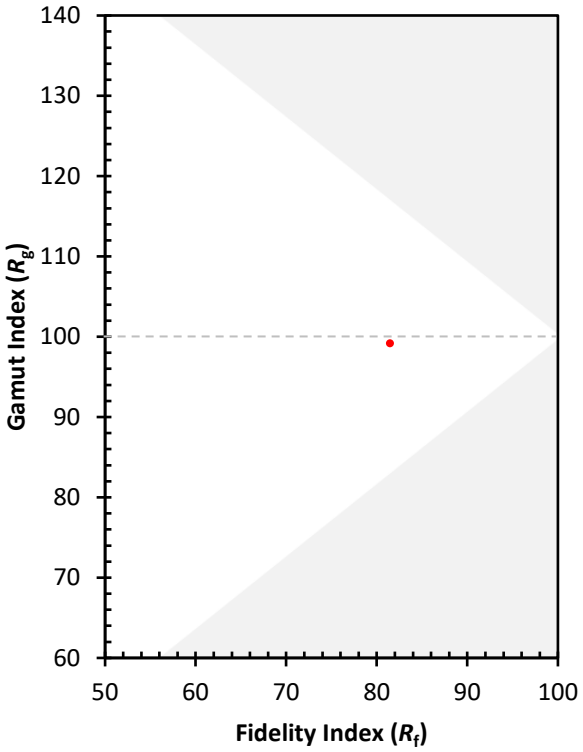



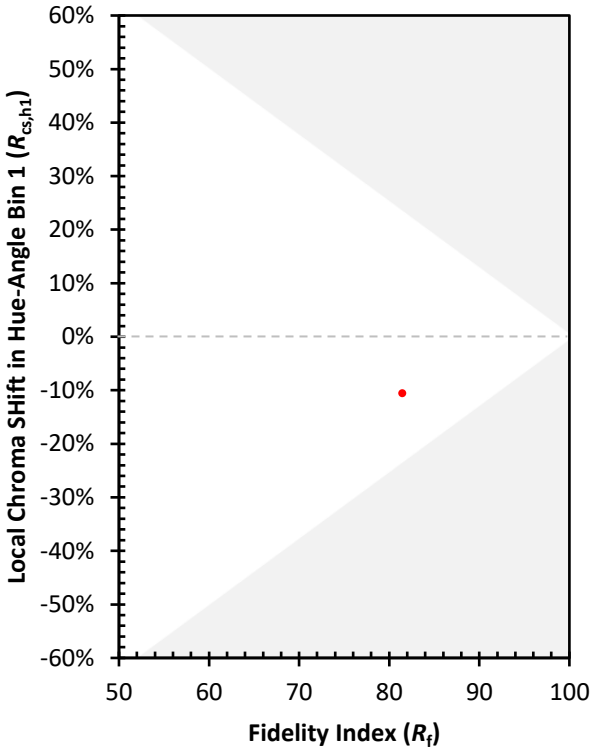



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## Measure Comparisons




(END OF REPORT)