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: P1501903

Luminaire Tested: GSS-SB1C-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: | P1501903 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1C-830-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 52W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (26) 3000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4929.9 lumens |
| Efficiency: | N/A |
| Efficacy: | 94.8 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B1 - U0 - G1 |

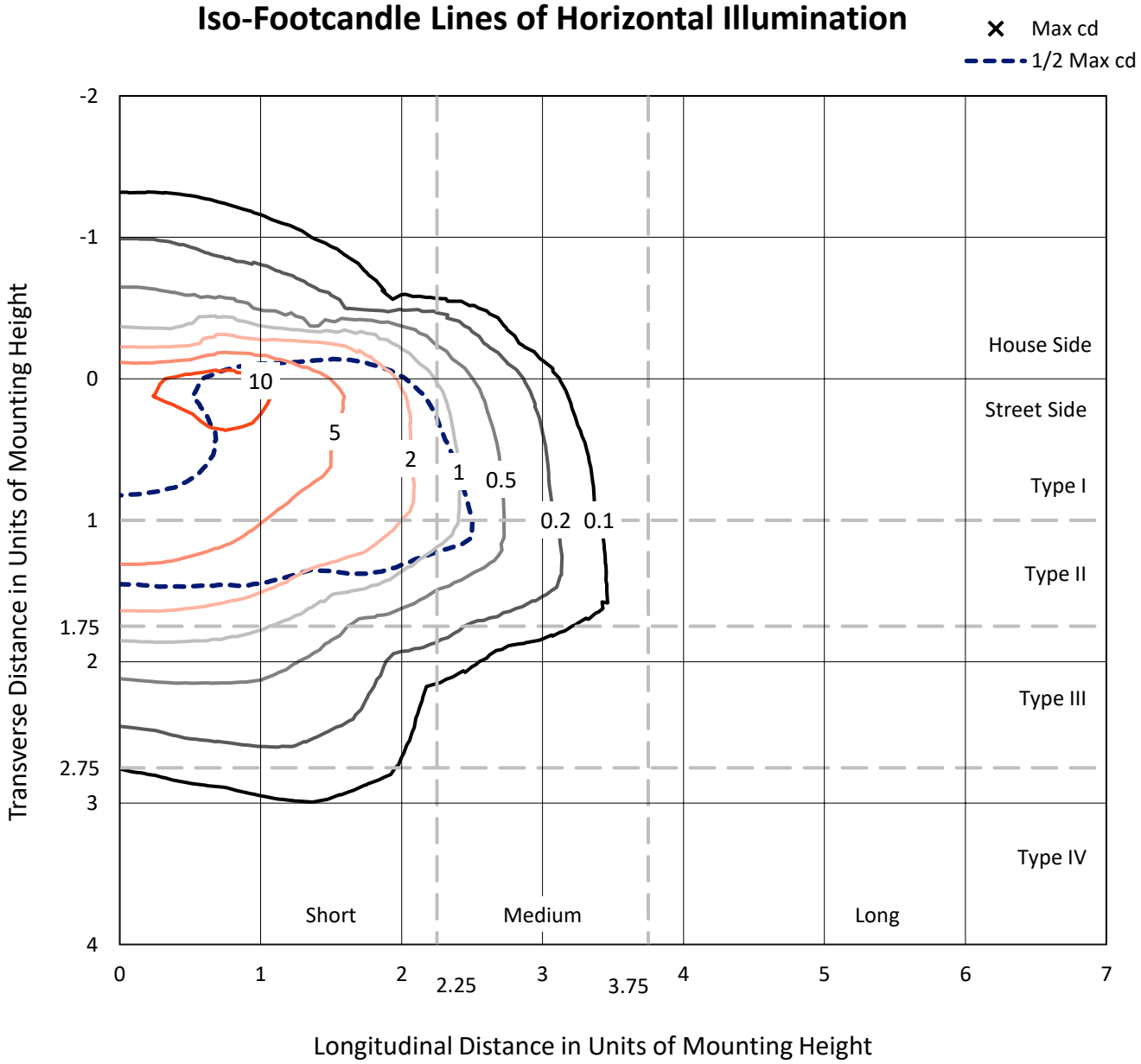
| | |
|---|---|
| Input Watts (W): | 52 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 10.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



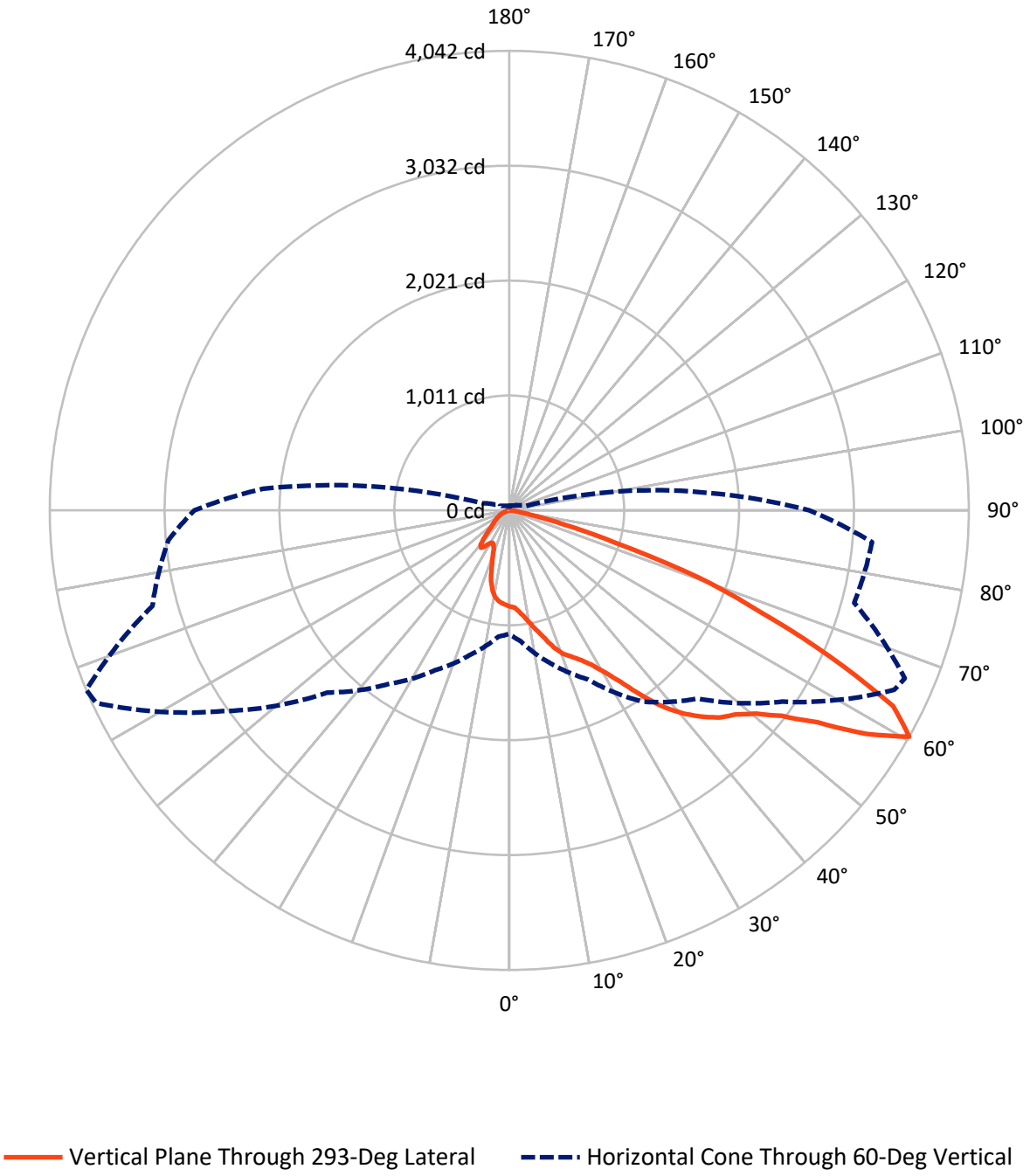

Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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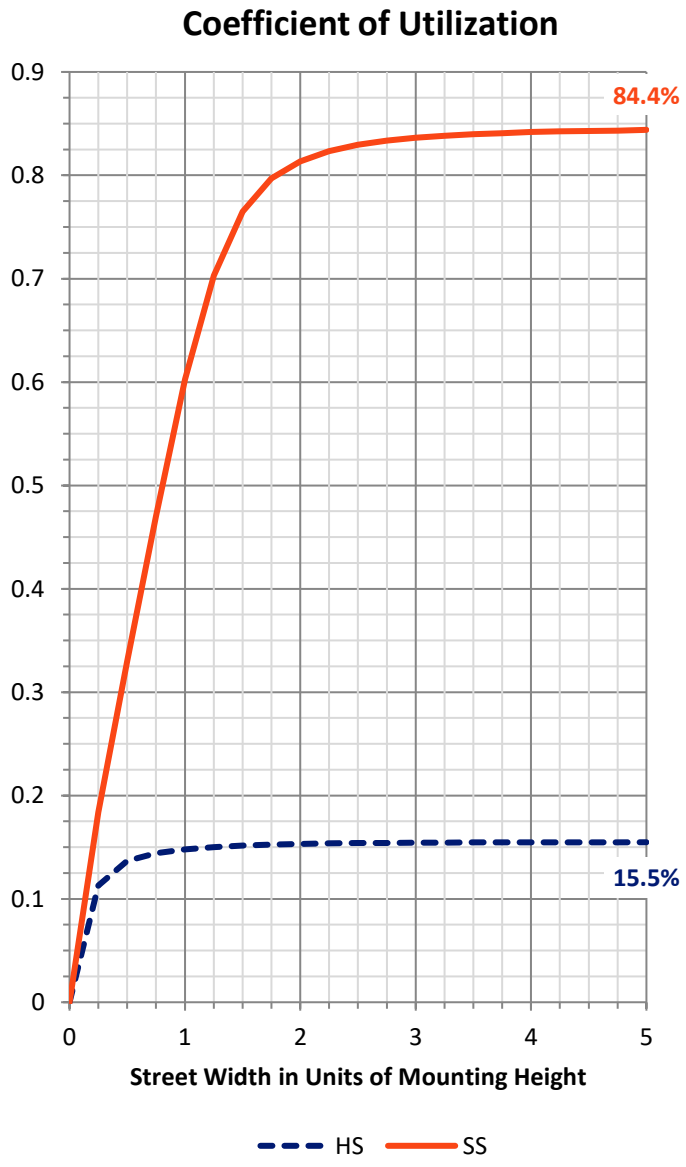
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 769.2 | 0.0 | 769.2 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 4160.7 | 0.0 | 4160.7 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 4929.9 | 0.0 | 4929.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 76.5 | 1.6 |
| 10°-20° | 192.7 | 3.9 |
| 20°-30° | 359.7 | 7.3 |
| 30°-40° | 713.3 | 14.5 |
| 40°-50° | 1137.3 | 23.1 |
| 50°-60° | 1358.8 | 27.6 |
| 60°-70° | 890.8 | 18.1 |
| 70°-80° | 186.6 | 3.8 |
| 80°-90° | 14.1 | 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° | 4929.9 | 100.0 |
| 0°-180° | 4929.9 | 100.0 |



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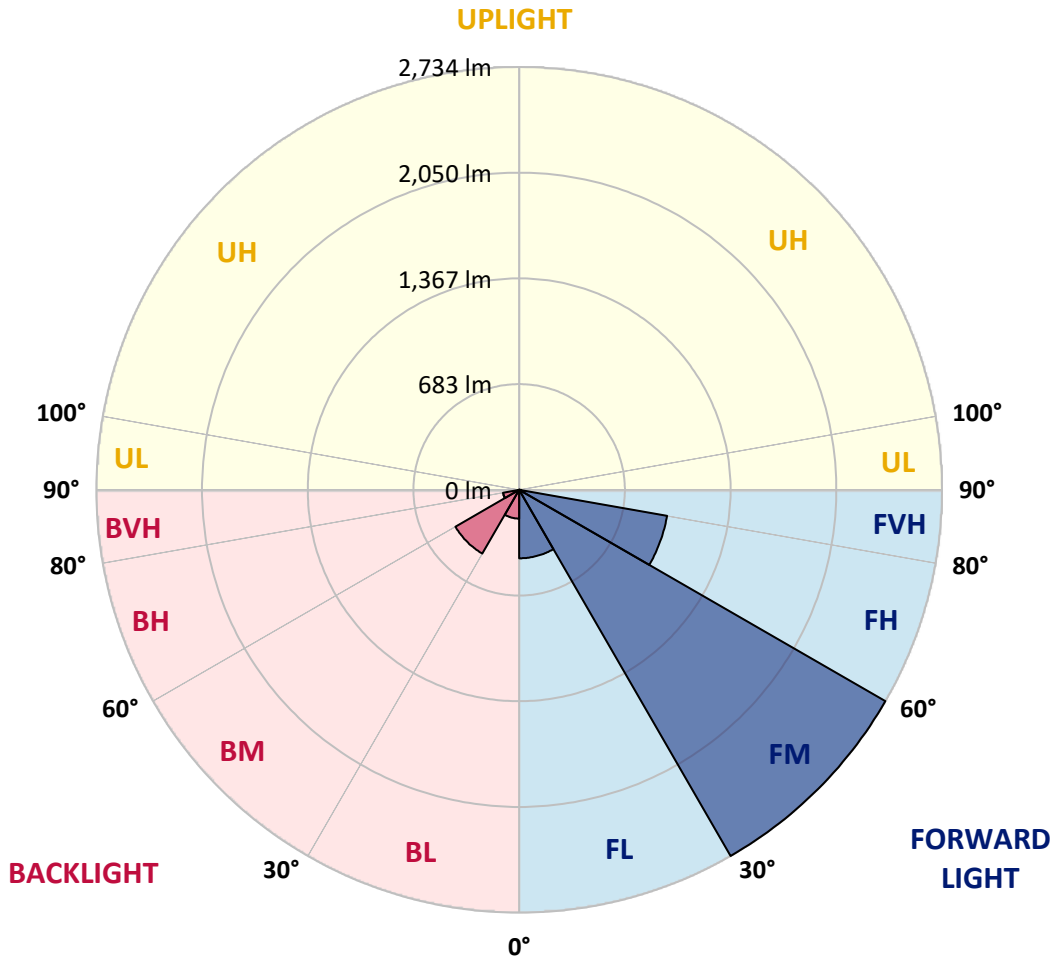
Scaled Data Report

REPORT NUMBER: P1501903
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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°) | 442.8 | 9.0 | | | |
| FM | (30°-60°) | 2733.8 | 55.5 | | | |
| FH | (60°-80°) | 971.2 | 19.7 | | | G1/1800 |
| FVH | (80°-90°) | 12.9 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 186.1 | 3.8 | B1/500 | | |
| BM | (30°-60°) | 475.7 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 106.2 | 2.2 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 |
| 2.5° | 887.7 | 885.0 | 880.8 | 882.2 | 880.8 | 875.3 | 867.0 | 860.1 | 865.6 | 857.4 | 851.8 |
| 5° | 914.0 | 914.0 | 911.2 | 911.2 | 912.6 | 909.8 | 904.3 | 894.6 | 896.0 | 889.1 | 871.2 |
| 7.5° | 914.0 | 909.8 | 916.7 | 923.6 | 936.0 | 943.0 | 945.7 | 940.2 | 943.0 | 929.1 | 905.7 |
| 10° | 860.1 | 857.4 | 875.3 | 901.5 | 937.4 | 969.2 | 989.9 | 991.3 | 995.4 | 981.6 | 954.0 |
| 12.5° | 745.5 | 740.0 | 775.9 | 825.6 | 898.8 | 971.9 | 1029.9 | 1052.0 | 1061.7 | 1056.2 | 1017.5 |
| 15° | 639.2 | 646.1 | 671.0 | 724.8 | 822.8 | 934.7 | 1052.0 | 1125.2 | 1139.0 | 1145.9 | 1100.3 |
| 17.5° | 628.2 | 629.6 | 637.8 | 664.1 | 738.6 | 873.9 | 1054.8 | 1201.1 | 1220.5 | 1250.8 | 1188.7 |
| 20° | 658.5 | 655.8 | 664.1 | 672.4 | 708.2 | 820.1 | 1028.5 | 1274.3 | 1311.6 | 1376.5 | 1308.8 |
| 22.5° | 715.2 | 715.2 | 719.3 | 724.8 | 742.8 | 815.9 | 1017.5 | 1341.9 | 1405.5 | 1538.0 | 1459.3 |
| 25° | 810.4 | 799.4 | 802.1 | 795.2 | 810.4 | 865.6 | 1042.4 | 1395.8 | 1482.8 | 1717.5 | 1638.8 |
| 27.5° | 958.1 | 962.3 | 937.4 | 900.2 | 908.4 | 955.4 | 1103.1 | 1456.5 | 1562.8 | 1903.8 | 1821.0 |
| 30° | 1162.5 | 1155.6 | 1140.4 | 1067.2 | 1034.1 | 1075.5 | 1214.9 | 1555.9 | 1670.5 | 2139.9 | 2064.0 |
| 32.5° | 1322.6 | 1341.9 | 1315.7 | 1264.6 | 1213.5 | 1226.0 | 1372.3 | 1716.1 | 1801.7 | 2356.7 | 2315.3 |
| 35° | 1515.9 | 1515.9 | 1521.4 | 1449.6 | 1415.1 | 1412.4 | 1569.7 | 1890.0 | 1975.6 | 2552.7 | 2581.7 |
| 37.5° | 1776.8 | 1758.9 | 1728.5 | 1648.4 | 1622.2 | 1656.7 | 1754.7 | 2069.5 | 2162.0 | 2711.5 | 2788.8 |
| 40° | 1996.3 | 2008.8 | 2004.6 | 1888.7 | 1837.6 | 1874.9 | 1961.8 | 2222.8 | 2294.6 | 2813.7 | 2955.9 |
| 42.5° | 2211.7 | 2218.6 | 2200.7 | 2145.5 | 2070.9 | 2073.7 | 2145.5 | 2338.7 | 2411.9 | 2911.7 | 3113.3 |
| 45° | 2373.3 | 2371.9 | 2359.4 | 2345.6 | 2301.5 | 2255.9 | 2268.3 | 2467.1 | 2530.6 | 2943.4 | 3198.9 |
| 47.5° | 2424.3 | 2435.4 | 2446.4 | 2485.1 | 2515.5 | 2443.7 | 2380.2 | 2536.2 | 2594.2 | 2937.9 | 3230.6 |
| 50° | 2377.4 | 2400.9 | 2454.7 | 2512.7 | 2616.2 | 2610.7 | 2474.0 | 2610.7 | 2667.3 | 2968.3 | 3267.9 |
| 52.5° | 2272.5 | 2295.9 | 2367.7 | 2472.7 | 2628.7 | 2706.0 | 2648.0 | 2736.4 | 2802.6 | 3045.6 | 3345.2 |
| 55° | 2028.1 | 2037.8 | 2185.5 | 2323.6 | 2566.5 | 2664.6 | 2834.4 | 2949.0 | 3004.2 | 3139.5 | 3447.4 |
| 57.5° | 1651.2 | 1674.7 | 1819.6 | 2044.7 | 2392.6 | 2555.5 | 2940.7 | 3312.1 | 3310.7 | 3229.2 | 3469.5 |
| 60° | *1086.5* | *1155.6* | *1391.6* | *1640.2* | *2055.7* | *2341.5* | *2933.8* | *3737.3* | *3780.1* | *3140.9* | *3203.0* |
| 62.5° | 829.7 | 858.7 | 992.7 | 1199.7 | 1521.4 | 1941.1 | 2888.2 | 3864.3 | 3897.4 | 2903.4 | 2804.0 |
| 65° | 624.0 | 659.9 | 788.3 | 973.3 | 1074.1 | 1315.7 | 2590.0 | 3359.0 | 3404.6 | 2591.4 | 2180.0 |
| 67.5° | 382.4 | 411.4 | 582.6 | 799.4 | 813.2 | 817.3 | 1747.8 | 2544.4 | 2561.0 | 2090.2 | 1467.6 |
| 70° | 255.4 | 284.4 | 403.1 | 614.4 | 647.5 | 470.8 | 959.5 | 1925.9 | 1924.6 | 1430.3 | 891.9 |
| 72.5° | 147.7 | 161.5 | 255.4 | 452.8 | 509.4 | 299.6 | 479.1 | 1224.6 | 1170.8 | 672.4 | 416.9 |
| 75° | 84.2 | 93.9 | 140.8 | 291.3 | 357.6 | 190.5 | 189.1 | 655.8 | 579.9 | 346.5 | 227.8 |
| 77.5° | 51.1 | 55.2 | 77.3 | 190.5 | 215.4 | 128.4 | 104.9 | 305.1 | 294.1 | 202.9 | 120.1 |
| 80° | 24.9 | 29.0 | 46.9 | 111.8 | 138.1 | 69.0 | 63.5 | 120.1 | 128.4 | 111.8 | 63.5 |
| 82.5° | 8.3 | 11.0 | 26.2 | 42.8 | 89.7 | 27.6 | 26.2 | 66.3 | 70.4 | 66.3 | 30.4 |
| 85° | 4.1 | 5.5 | 12.4 | 13.8 | 34.5 | 13.8 | 9.7 | 29.0 | 35.9 | 22.1 | 12.4 |
| 87.5° | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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° | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 |
| 2.5° | 847.7 | 844.9 | 839.4 | 829.7 | 828.4 | 821.5 | 810.4 | 803.5 | 798.0 | 802.1 | 803.5 |
| 5° | 862.9 | 856.0 | 839.4 | 813.2 | 785.6 | 758.0 | 731.7 | 701.3 | 680.6 | 677.9 | 672.4 |
| 7.5° | 890.5 | 876.7 | 840.8 | 789.7 | 719.3 | 653.0 | 575.7 | 501.2 | 463.9 | 458.4 | 445.9 |
| 10° | 934.7 | 911.2 | 851.8 | 748.3 | 613.0 | 474.9 | 357.6 | 277.5 | 231.9 | 223.7 | 226.4 |
| 12.5° | 987.1 | 954.0 | 853.2 | 677.9 | 466.6 | 294.1 | 202.9 | 172.6 | 162.9 | 158.8 | 158.8 |
| 15° | 1054.8 | 1006.5 | 851.8 | 586.8 | 314.8 | 189.1 | 162.9 | 150.5 | 146.3 | 143.6 | 143.6 |
| 17.5° | 1140.4 | 1076.9 | 842.2 | 450.1 | 212.6 | 164.3 | 149.1 | 139.4 | 133.9 | 132.5 | 132.5 |
| 20° | 1241.2 | 1155.6 | 820.1 | 335.5 | 178.1 | 153.2 | 140.8 | 128.4 | 124.3 | 121.5 | 121.5 |
| 22.5° | 1369.6 | 1250.8 | 777.3 | 260.9 | 168.4 | 146.3 | 132.5 | 118.7 | 114.6 | 111.8 | 111.8 |
| 25° | 1518.7 | 1372.3 | 720.7 | 234.7 | 167.1 | 140.8 | 124.3 | 110.4 | 106.3 | 104.9 | 103.5 |
| 27.5° | 1695.4 | 1502.1 | 668.2 | 236.1 | 169.8 | 136.7 | 116.0 | 103.5 | 99.4 | 95.3 | 96.6 |
| 30° | 1903.8 | 1636.0 | 625.4 | 252.7 | 172.6 | 132.5 | 110.4 | 99.4 | 95.3 | 89.7 | 89.7 |
| 32.5° | 2109.6 | 1793.4 | 621.3 | 283.0 | 182.2 | 129.8 | 104.9 | 93.9 | 89.7 | 85.6 | 85.6 |
| 35° | 2320.8 | 1937.0 | 644.7 | 323.1 | 201.6 | 125.6 | 98.0 | 88.4 | 84.2 | 81.5 | 80.1 |
| 37.5° | 2522.4 | 2051.6 | 666.8 | 347.9 | 190.5 | 107.7 | 89.7 | 81.5 | 77.3 | 71.8 | 71.8 |
| 40° | 2656.3 | 2113.7 | 671.0 | 328.6 | 157.4 | 96.6 | 81.5 | 73.2 | 67.6 | 64.9 | 63.5 |
| 42.5° | 2754.3 | 2153.7 | 624.0 | 266.5 | 136.7 | 88.4 | 74.6 | 66.3 | 62.1 | 59.4 | 59.4 |
| 45° | 2794.3 | 2139.9 | 544.0 | 202.9 | 125.6 | 81.5 | 67.6 | 60.7 | 58.0 | 55.2 | 55.2 |
| 47.5° | 2788.8 | 2076.4 | 462.5 | 162.9 | 114.6 | 74.6 | 63.5 | 58.0 | 55.2 | 52.5 | 51.1 |
| 50° | 2779.2 | 2017.1 | 379.7 | 145.0 | 102.2 | 70.4 | 59.4 | 55.2 | 51.1 | 48.3 | 46.9 |
| 52.5° | 2842.7 | 1997.7 | 314.8 | 132.5 | 95.3 | 67.6 | 58.0 | 52.5 | 48.3 | 45.6 | 45.6 |
| 55° | 2906.2 | 2006.0 | 247.1 | 124.3 | 88.4 | 66.3 | 56.6 | 51.1 | 46.9 | 42.8 | 42.8 |
| 57.5° | 2902.0 | 1970.1 | 187.8 | 116.0 | 82.8 | 64.9 | 55.2 | 49.7 | 42.8 | 40.0 | 40.0 |
| 60° | *2638.3* | *1757.5* | *146.3* | *106.3* | *75.9* | *60.7* | *51.1* | *46.9* | *40.0* | *35.9* | *35.9* |
| 62.5° | 2231.1 | 1382.0 | 120.1 | 93.9 | 67.6 | 55.2 | 46.9 | 42.8 | 35.9 | 29.0 | 29.0 |
| 65° | 1648.4 | 996.8 | 96.6 | 81.5 | 62.1 | 48.3 | 42.8 | 37.3 | 29.0 | 23.5 | 22.1 |
| 67.5° | 1115.5 | 613.0 | 77.3 | 67.6 | 55.2 | 41.4 | 35.9 | 31.8 | 26.2 | 19.3 | 17.9 |
| 70° | 661.3 | 325.8 | 56.6 | 46.9 | 41.4 | 30.4 | 30.4 | 27.6 | 22.1 | 16.6 | 15.2 |
| 72.5° | 314.8 | 113.2 | 41.4 | 34.5 | 31.8 | 22.1 | 23.5 | 23.5 | 17.9 | 12.4 | 11.0 |
| 75° | 160.1 | 55.2 | 27.6 | 24.9 | 20.7 | 16.6 | 19.3 | 17.9 | 12.4 | 8.3 | 8.3 |
| 77.5° | 91.1 | 38.7 | 19.3 | 16.6 | 13.8 | 11.0 | 12.4 | 11.0 | 6.9 | 4.1 | 4.1 |
| 80° | 51.1 | 27.6 | 12.4 | 11.0 | 8.3 | 6.9 | 6.9 | 5.5 | 4.1 | 1.4 | 1.4 |
| 82.5° | 19.3 | 16.6 | 8.3 | 5.5 | 4.1 | 4.1 | 2.8 | 2.8 | 1.4 | 0.0 | 0.0 |
| 85° | 8.3 | 4.1 | 4.1 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 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° | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 |
| 2.5° | 792.5 | 795.2 | 798.0 | 809.0 | 811.8 | 820.1 | 827.0 | 835.3 | 836.6 | 847.7 | 847.7 |
| 5° | 683.4 | 682.0 | 705.5 | 740.0 | 762.1 | 792.5 | 815.9 | 840.8 | 854.6 | 872.5 | 880.8 |
| 7.5° | 452.8 | 487.4 | 539.8 | 600.6 | 679.3 | 752.4 | 807.7 | 856.0 | 889.1 | 909.8 | 918.1 |
| 10° | 225.0 | 244.4 | 299.6 | 399.0 | 532.9 | 682.0 | 799.4 | 889.1 | 943.0 | 966.4 | 981.6 |
| 12.5° | 158.8 | 162.9 | 172.6 | 226.4 | 354.8 | 566.0 | 773.1 | 925.0 | 999.6 | 1043.7 | 1063.1 |
| 15° | 142.2 | 145.0 | 149.1 | 164.3 | 219.5 | 422.5 | 726.2 | 965.0 | 1087.9 | 1139.0 | 1163.8 |
| 17.5° | 131.2 | 132.5 | 136.7 | 149.1 | 172.6 | 287.2 | 650.3 | 1007.8 | 1194.2 | 1256.3 | 1303.3 |
| 20° | 121.5 | 121.5 | 125.6 | 140.8 | 160.1 | 220.9 | 541.2 | 1056.2 | 1329.5 | 1419.3 | 1466.2 |
| 22.5° | 110.4 | 113.2 | 116.0 | 132.5 | 156.0 | 201.6 | 439.0 | 1093.4 | 1480.0 | 1589.1 | 1644.3 |
| 25° | 102.2 | 104.9 | 107.7 | 124.3 | 151.9 | 201.6 | 379.7 | 1116.9 | 1648.4 | 1778.2 | 1854.1 |
| 27.5° | 95.3 | 98.0 | 102.2 | 118.7 | 147.7 | 209.9 | 356.2 | 1123.8 | 1832.1 | 2000.5 | 2102.7 |
| 30° | 89.7 | 92.5 | 96.6 | 114.6 | 150.5 | 219.5 | 364.5 | 1114.1 | 2018.4 | 2229.7 | 2351.2 |
| 32.5° | 84.2 | 87.0 | 91.1 | 110.4 | 150.5 | 231.9 | 392.1 | 1094.8 | 2199.3 | 2458.9 | 2608.0 |
| 35° | 80.1 | 81.5 | 82.8 | 99.4 | 136.7 | 230.6 | 426.6 | 1075.5 | 2381.5 | 2685.3 | 2859.2 |
| 37.5° | 71.8 | 73.2 | 75.9 | 85.6 | 109.1 | 209.9 | 433.5 | 1052.0 | 2525.1 | 2875.8 | 3067.7 |
| 40° | 63.5 | 66.3 | 69.0 | 78.7 | 91.1 | 169.8 | 403.1 | 1002.3 | 2601.1 | 3022.1 | 3255.5 |
| 42.5° | 58.0 | 59.4 | 62.1 | 71.8 | 84.2 | 135.3 | 338.2 | 915.3 | 2668.7 | 3121.5 | 3392.1 |
| 45° | 53.8 | 55.2 | 58.0 | 64.9 | 78.7 | 117.4 | 266.5 | 809.0 | 2674.2 | 3153.3 | 3458.4 |
| 47.5° | 49.7 | 51.1 | 52.5 | 59.4 | 75.9 | 104.9 | 204.3 | 712.4 | 2672.8 | 3194.7 | 3515.0 |
| 50° | 46.9 | 48.3 | 51.1 | 56.6 | 71.8 | 93.9 | 168.4 | 633.7 | 2730.8 | 3284.5 | 3629.6 |
| 52.5° | 45.6 | 45.6 | 49.7 | 55.2 | 67.6 | 85.6 | 140.8 | 563.3 | 2761.2 | 3372.8 | 3712.4 |
| 55° | 42.8 | 44.2 | 46.9 | 52.5 | 63.5 | 81.5 | 120.1 | 474.9 | 2775.0 | 3417.0 | 3727.6 |
| 57.5° | 40.0 | 41.4 | 45.6 | 49.7 | 60.7 | 77.3 | 103.5 | 354.8 | 2577.6 | 3186.4 | 3473.6 |
| 60° | *35.9* | *38.7* | *44.2* | *48.3* | *56.6* | *70.4* | *91.1* | *240.2* | *2174.4* | *2769.5* | *3009.7* |
| 62.5° | 29.0 | 34.5 | 40.0 | 42.8 | 51.1 | 59.4 | 77.3 | 160.1 | 1736.8 | 2291.8 | 2565.2 |
| 65° | 22.1 | 29.0 | 33.1 | 37.3 | 42.8 | 49.7 | 64.9 | 109.1 | 1158.3 | 1542.1 | 1850.0 |
| 67.5° | 19.3 | 24.9 | 27.6 | 30.4 | 35.9 | 42.8 | 52.5 | 75.9 | 702.7 | 926.4 | 1230.1 |
| 70° | 15.2 | 20.7 | 23.5 | 22.1 | 27.6 | 33.1 | 37.3 | 51.1 | 359.0 | 502.5 | 700.0 |
| 72.5° | 11.0 | 16.6 | 17.9 | 17.9 | 16.6 | 23.5 | 27.6 | 35.9 | 156.0 | 244.4 | 317.5 |
| 75° | 8.3 | 11.0 | 12.4 | 11.0 | 9.7 | 15.2 | 19.3 | 23.5 | 102.2 | 146.3 | 185.0 |
| 77.5° | 4.1 | 4.1 | 6.9 | 6.9 | 4.1 | 8.3 | 9.7 | 13.8 | 58.0 | 85.6 | 106.3 |
| 80° | 1.4 | 0.0 | 0.0 | 1.4 | 0.0 | 2.8 | 4.1 | 6.9 | 30.4 | 45.6 | 66.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 15.2 | 13.8 | 34.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 8.3 |
| 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: P1501903
CATALOG NUMBER: GSS-SB1C-830-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 844.9 | *844.9* | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 | 844.9 |
| 2.5° | 854.6 | *854.6* | 860.1 | 868.4 | 872.5 | 875.3 | 876.7 | 879.4 | 890.5 | 887.7 |
| 5° | 890.5 | *893.2* | 897.4 | 905.7 | 915.3 | 912.6 | 912.6 | 912.6 | 919.5 | 914.0 |
| 7.5° | 937.4 | *945.7* | 947.1 | 956.8 | 949.9 | 936.0 | 927.8 | 915.3 | 914.0 | 914.0 |
| 10° | 1013.4 | *1010.6* | 1010.6 | 998.2 | 973.3 | 933.3 | 897.4 | 872.5 | 858.7 | 860.1 |
| 12.5° | 1094.8 | *1083.8* | 1085.2 | 1039.6 | 969.2 | 880.8 | 807.7 | 753.8 | 749.7 | 745.5 |
| 15° | 1195.6 | *1166.6* | 1161.1 | 1056.2 | 907.1 | 771.8 | 700.0 | 657.2 | 643.4 | 639.2 |
| 17.5° | 1339.2 | *1266.0* | 1239.8 | 1027.2 | 825.6 | 704.1 | 650.3 | 630.9 | 629.6 | 628.2 |
| 20° | 1491.0 | *1346.1* | 1296.4 | 984.4 | 798.0 | 705.5 | 665.4 | 659.9 | 657.2 | 658.5 |
| 22.5° | 1667.8 | *1397.2* | 1333.7 | 991.3 | 822.8 | 751.0 | 719.3 | 715.2 | 712.4 | 715.2 |
| 25° | 1850.0 | *1456.5* | 1377.8 | 1046.5 | 897.4 | 835.3 | 798.0 | 789.7 | 798.0 | 810.4 |
| 27.5° | 2033.6 | *1536.6* | 1464.8 | 1155.6 | 1017.5 | 949.9 | 914.0 | 944.3 | 956.8 | 958.1 |
| 30° | 2196.5 | *1648.4* | 1582.2 | 1308.8 | 1154.2 | 1086.5 | 1093.4 | 1132.1 | 1147.3 | 1162.5 |
| 32.5° | 2345.6 | *1797.5* | 1746.5 | 1482.8 | 1330.9 | 1290.9 | 1286.7 | 1315.7 | 1332.3 | 1322.6 |
| 35° | 2496.1 | *1992.2* | 1942.5 | 1671.9 | 1547.7 | 1514.5 | 1480.0 | 1536.6 | 1531.1 | 1515.9 |
| 37.5° | 2638.3 | *2188.3* | 2142.7 | 1874.9 | 1746.5 | 1688.5 | 1683.0 | 1734.0 | 1779.6 | 1776.8 |
| 40° | 2740.5 | *2347.0* | 2291.8 | 2076.4 | 1954.9 | 1905.2 | 1934.2 | 2022.6 | 2011.5 | 1996.3 |
| 42.5° | 2834.4 | *2482.3* | 2432.6 | 2253.1 | 2126.1 | 2148.2 | 2174.4 | 2233.8 | 2226.9 | 2211.7 |
| 45° | 2878.6 | *2598.3* | 2555.5 | 2387.1 | 2324.9 | 2395.3 | 2394.0 | 2416.1 | 2378.8 | 2373.3 |
| 47.5° | 2940.7 | *2681.1* | 2636.9 | 2507.2 | 2562.4 | 2591.4 | 2509.9 | 2486.5 | 2451.9 | 2424.3 |
| 50° | 3055.3 | *2809.5* | 2765.3 | 2689.4 | 2736.4 | 2646.6 | 2547.2 | 2496.1 | 2425.7 | 2377.4 |
| 52.5° | 3189.2 | *3004.2* | 2965.5 | 2935.2 | 2804.0 | 2619.0 | 2492.0 | 2399.5 | 2313.9 | 2272.5 |
| 55° | 3357.6 | *3291.4* | 3263.7 | 3096.7 | 2743.3 | 2505.8 | 2356.7 | 2184.1 | 2066.8 | 2028.1 |
| 57.5° | 3412.8 | *3712.4* | 3702.8 | 3122.9 | 2573.4 | 2300.1 | 2030.9 | 1797.5 | 1676.1 | 1651.2 |
| 60° | *3249.9* | *4042.4* | *4007.9* | *3078.7* | *2265.6* | *1866.6* | *1551.8* | *1313.0* | *1115.5* | *1086.5* |
| 62.5° | 3041.5 | *3789.8* | 3777.3 | 2856.5 | 1725.8 | 1337.8 | 1159.7 | 936.0 | 851.8 | 829.7 |
| 65° | 2605.2 | *3100.8* | 3106.4 | 2291.8 | 1092.1 | 960.9 | 952.6 | 744.1 | 640.6 | 624.0 |
| 67.5° | 2006.0 | *2378.8* | 2340.1 | 1441.3 | 636.5 | 769.0 | 760.7 | 544.0 | 393.5 | 382.4 |
| 70° | 1172.1 | *1771.3* | 1709.2 | 749.7 | 421.1 | 642.0 | 585.4 | 382.4 | 267.8 | 255.4 |
| 72.5° | 517.7 | *974.7* | 1046.5 | 330.0 | 296.8 | 510.8 | 422.5 | 234.7 | 150.5 | 147.7 |
| 75° | 287.2 | *483.2* | 505.3 | 143.6 | 208.5 | 363.1 | 255.4 | 131.2 | 85.6 | 84.2 |
| 77.5° | 172.6 | *214.0* | 208.5 | 92.5 | 156.0 | 231.9 | 154.6 | 74.6 | 53.8 | 51.1 |
| 80° | 96.6 | *98.0* | 82.8 | 67.6 | 92.5 | 129.8 | 87.0 | 46.9 | 24.9 | 24.9 |
| 82.5° | 59.4 | *53.8* | 42.8 | 20.7 | 24.9 | 78.7 | 31.8 | 26.2 | 8.3 | 8.3 |
| 85° | 24.9 | *16.6* | 11.0 | 4.1 | 9.7 | 20.7 | 11.0 | 12.4 | 4.1 | 4.1 |
| 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

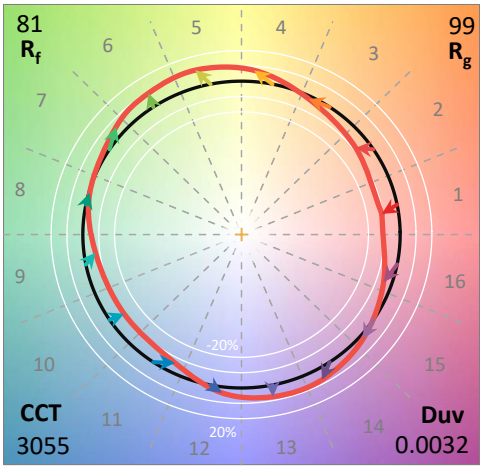
## Test Information

| | |
|---|---|
| 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

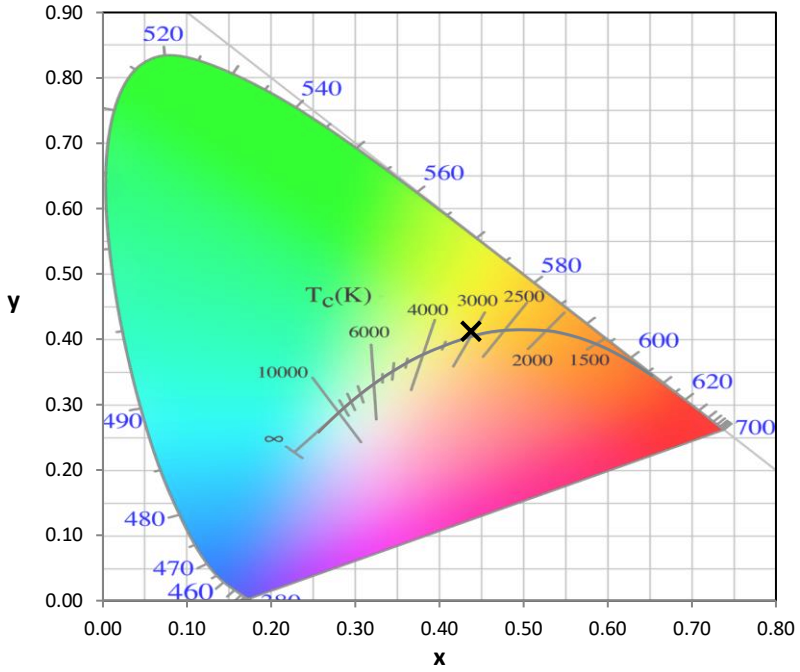
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-9

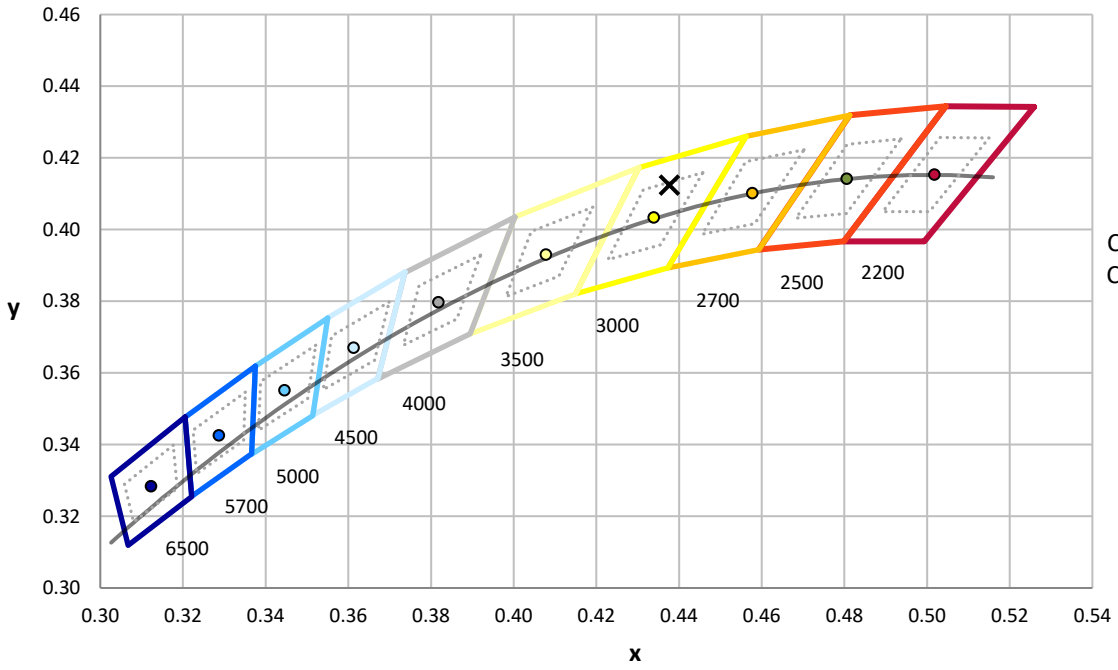
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

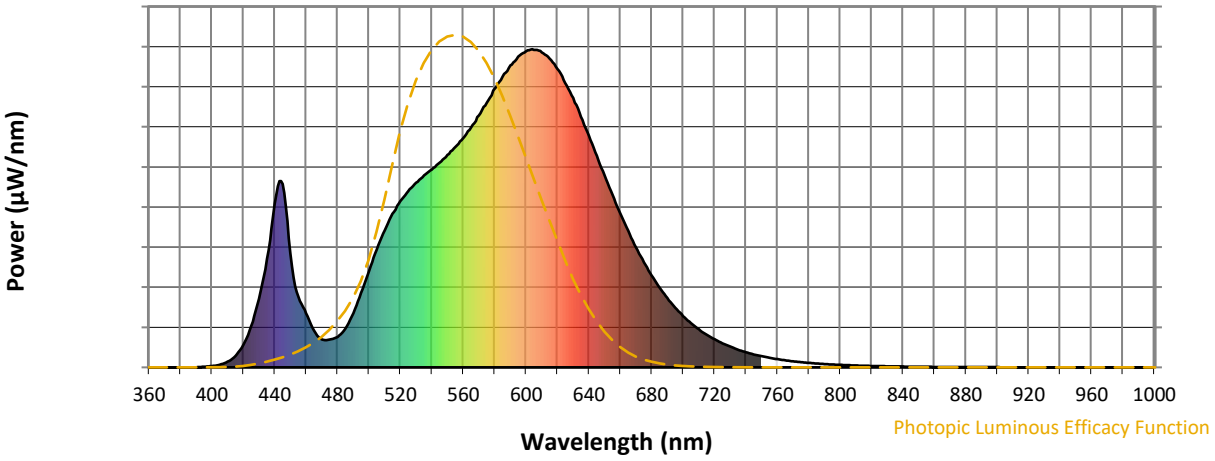



CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

## Photopic Flux vs. Wavelength

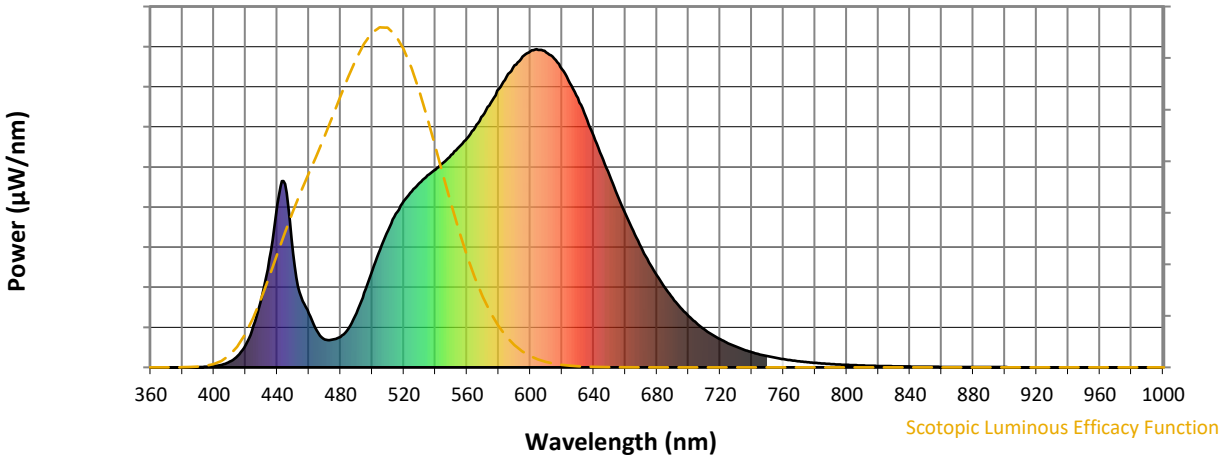



## Photopic Lumens: NR

| 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

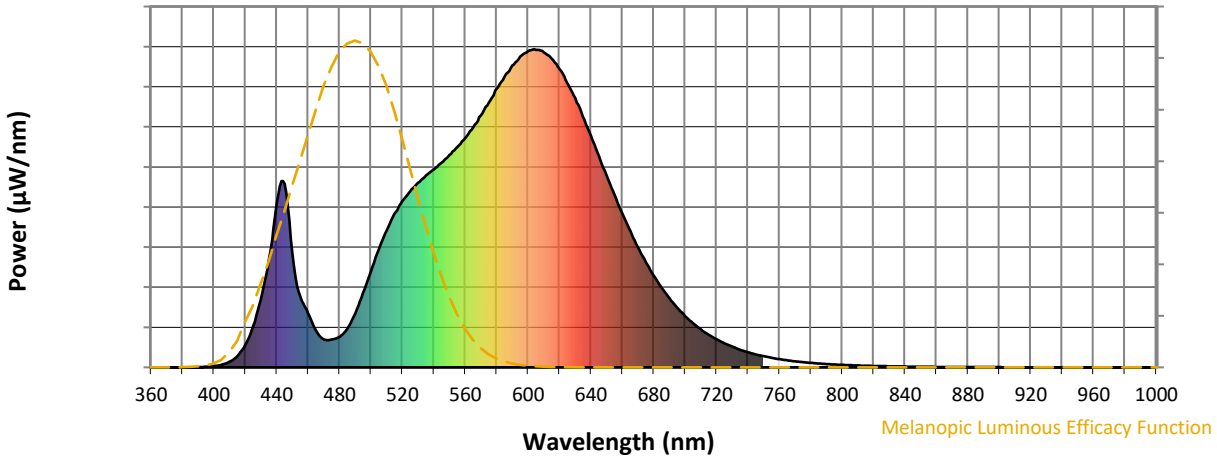



**Scotopic Lumens: NR** **S/P: 1.28**

| 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 | | | |

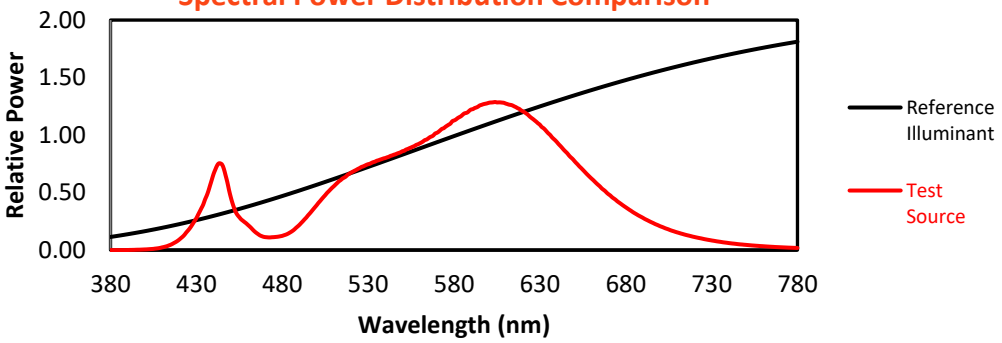
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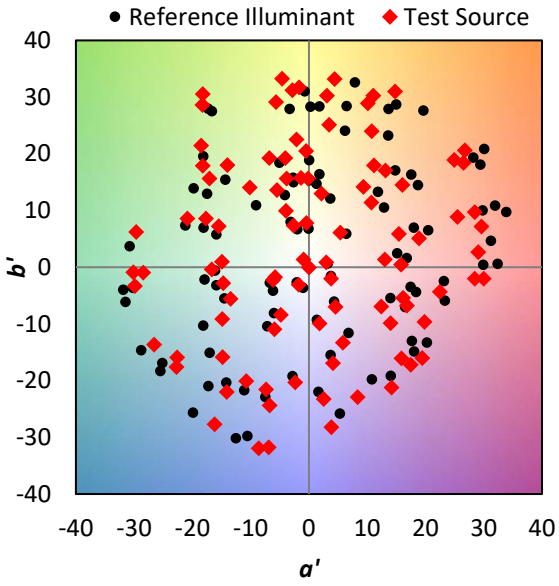
## Summary

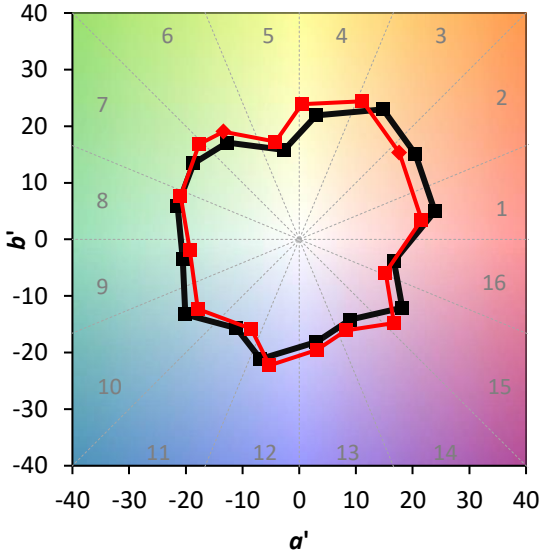
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 80.9
$R_9$ = 6.8

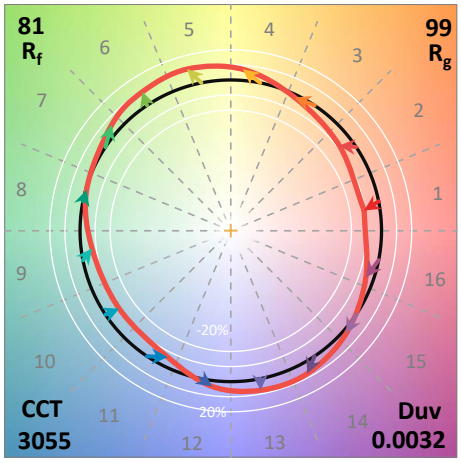
## Spectral Power Distribution Comparison

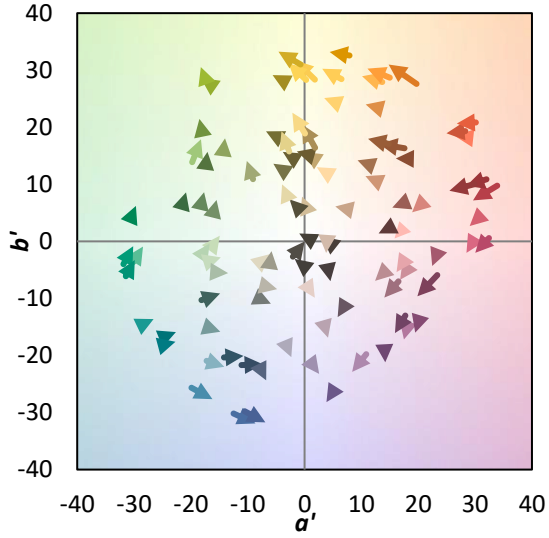



## Color Vector Graphics



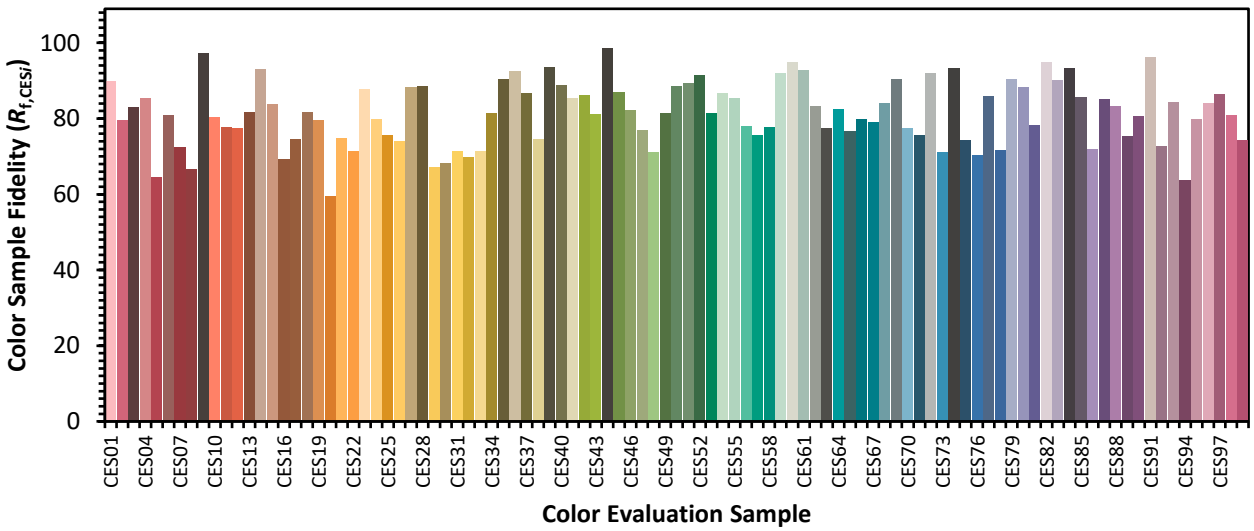



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## Individual Sample Fidelity Index ($R_{f,i}$)

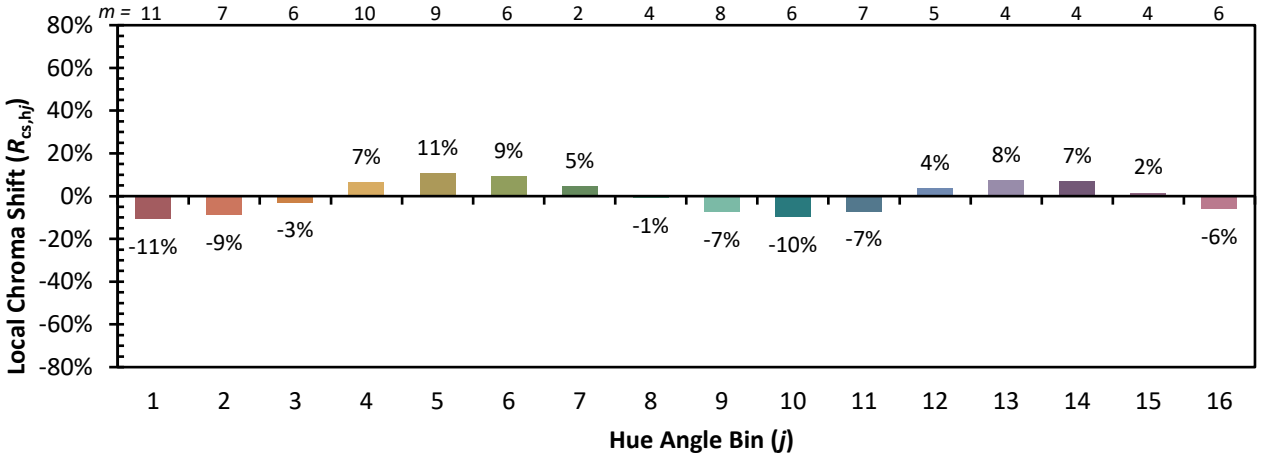
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 91 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 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 | |

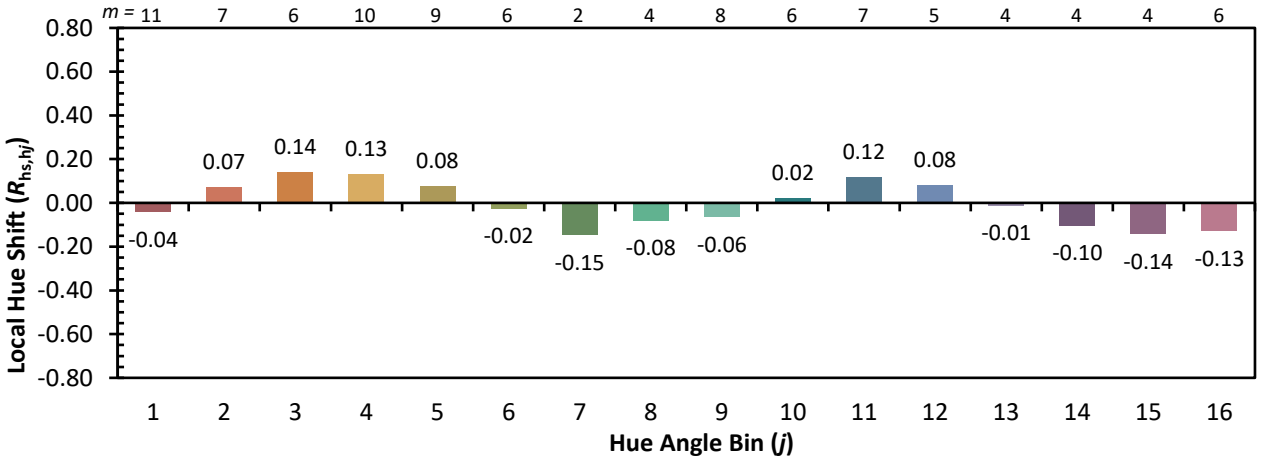


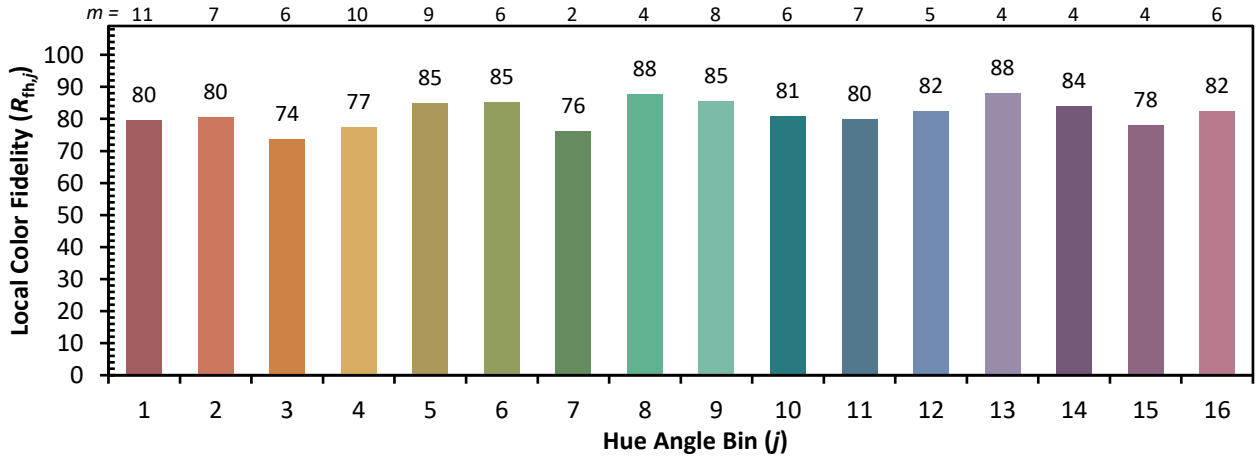
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## Color Rendition by Hue-Angle Bin



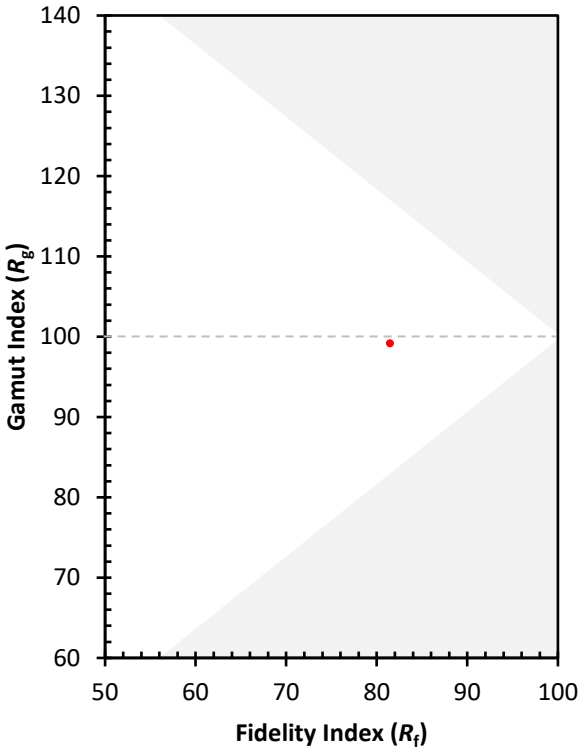



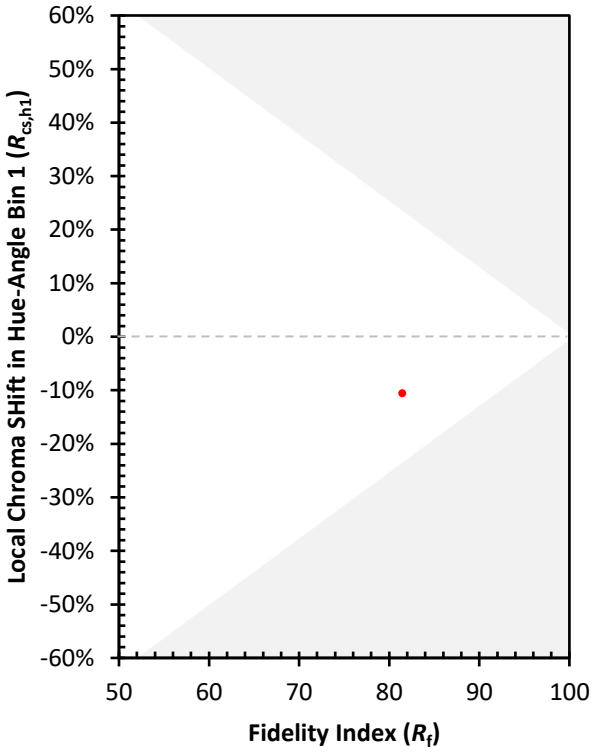



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## Measure Comparisons




(END OF REPORT)