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: P1501690

Luminaire Tested: GSS-SB2B-940-U-T2LG

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: | P1501690 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2B-940-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 90CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (52) 4000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 7566.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 102.2 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G1 |

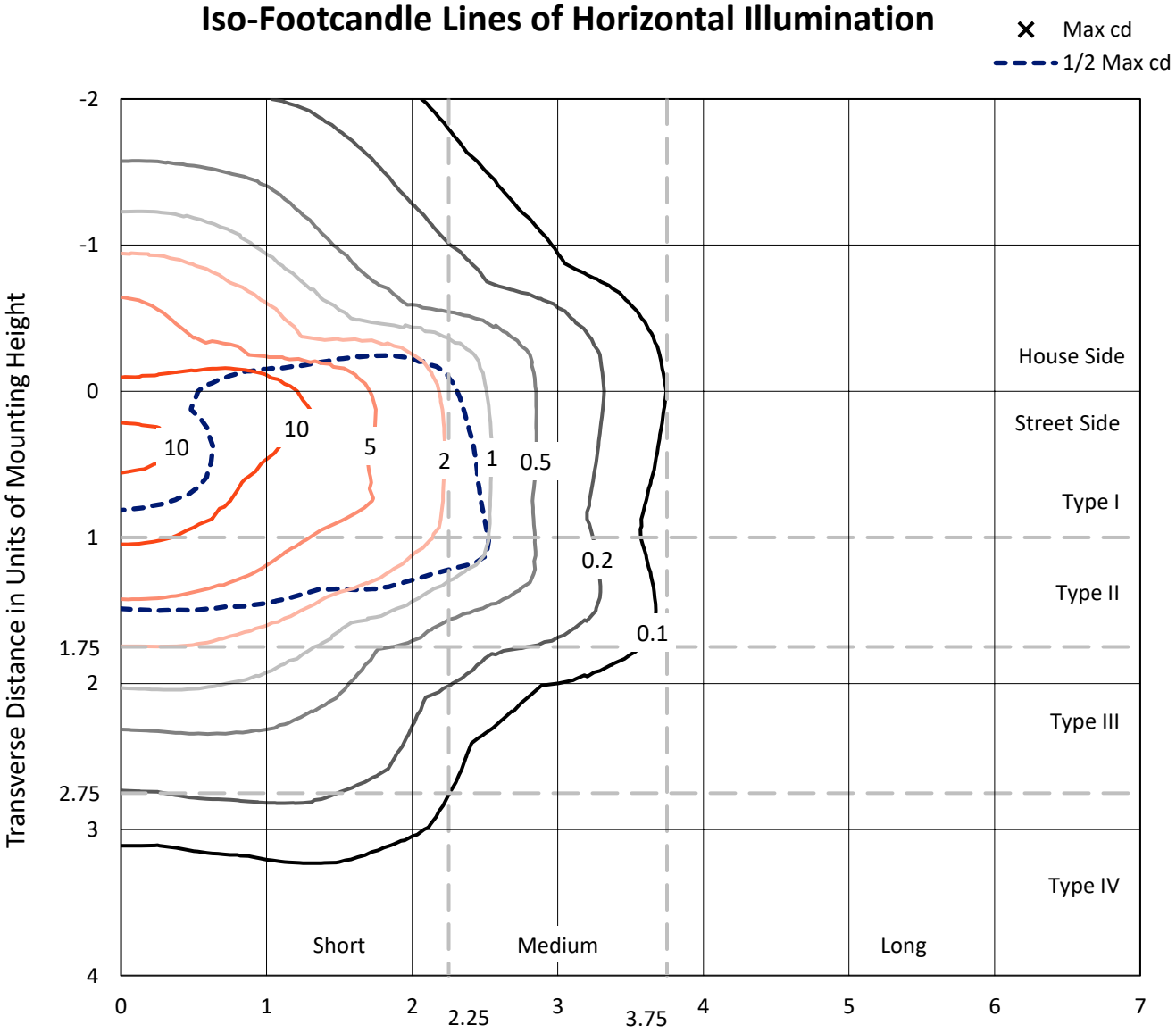
| | |
|---|---|
| Input Watts (W): | 74 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



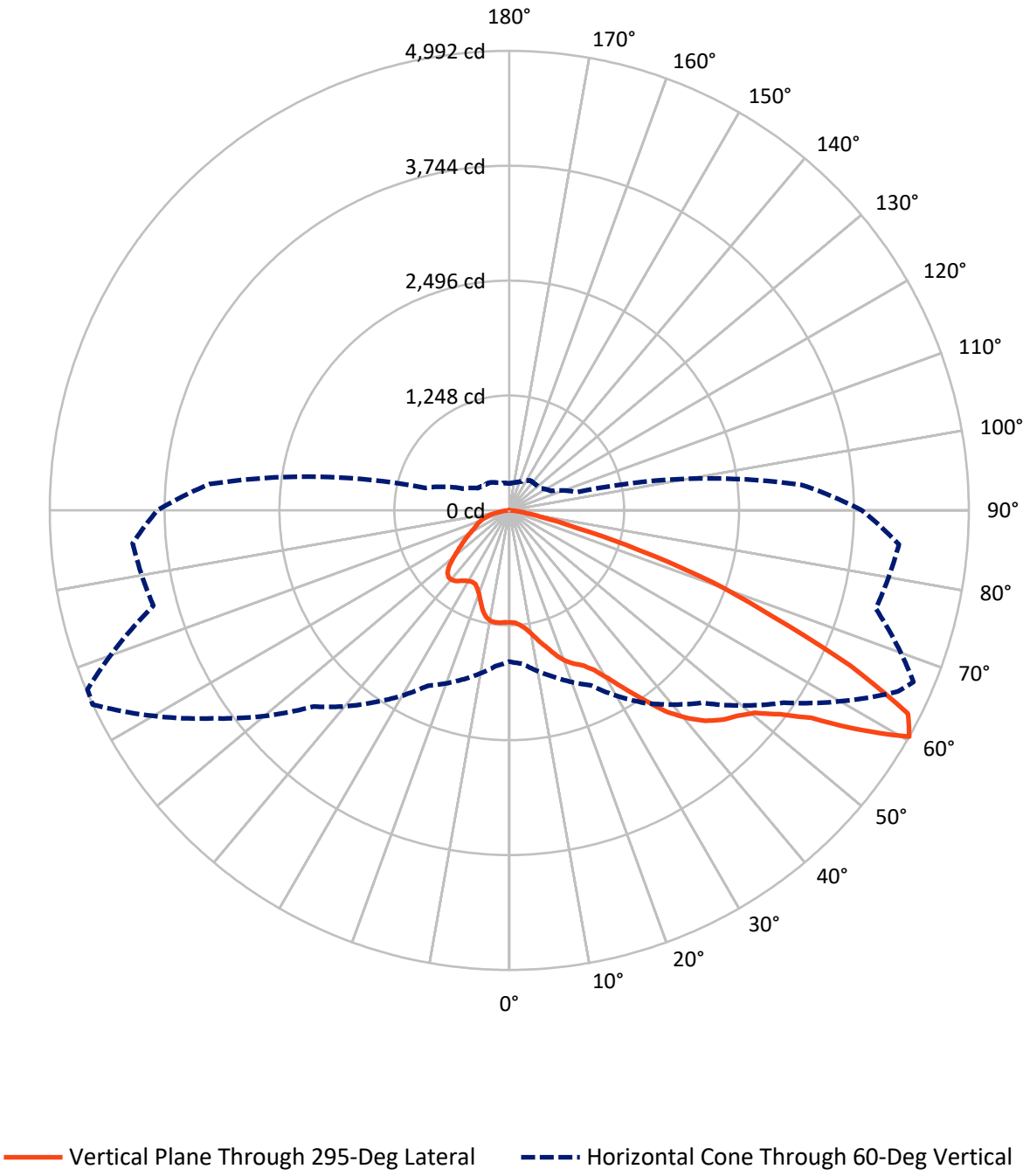

Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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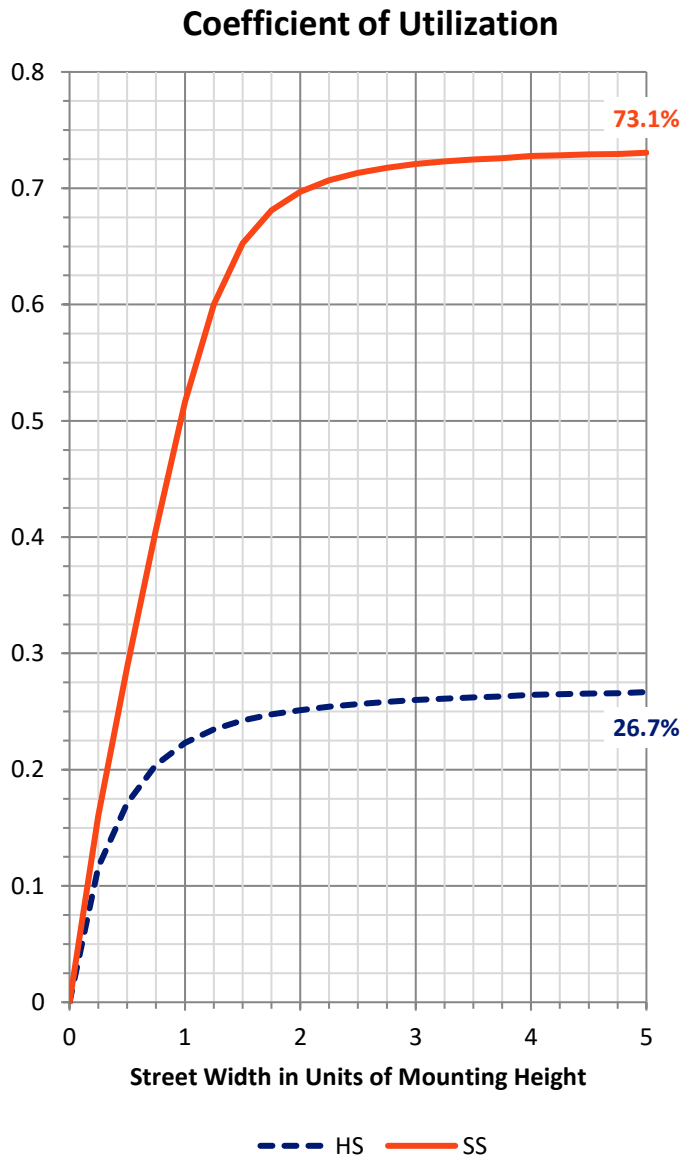
REPORT NUMBER: P1501690
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2034.7 | 0.0 | 2034.7 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 5531.7 | 0.0 | 5531.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 7566.4 | 0.0 | 7566.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 114.5 | 1.5 |
| 10°-20° | 329.0 | 4.3 |
| 20°-30° | 623.3 | 8.2 |
| 30°-40° | 1098.8 | 14.5 |
| 40°-50° | 1625.0 | 21.5 |
| 50°-60° | 1908.2 | 25.2 |
| 60°-70° | 1382.6 | 18.3 |
| 70°-80° | 426.4 | 5.6 |
| 80°-90° | 58.7 | 0.8 |
| 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° | 7566.4 | 100.0 |
| 0°-180° | 7566.4 | 100.0 |



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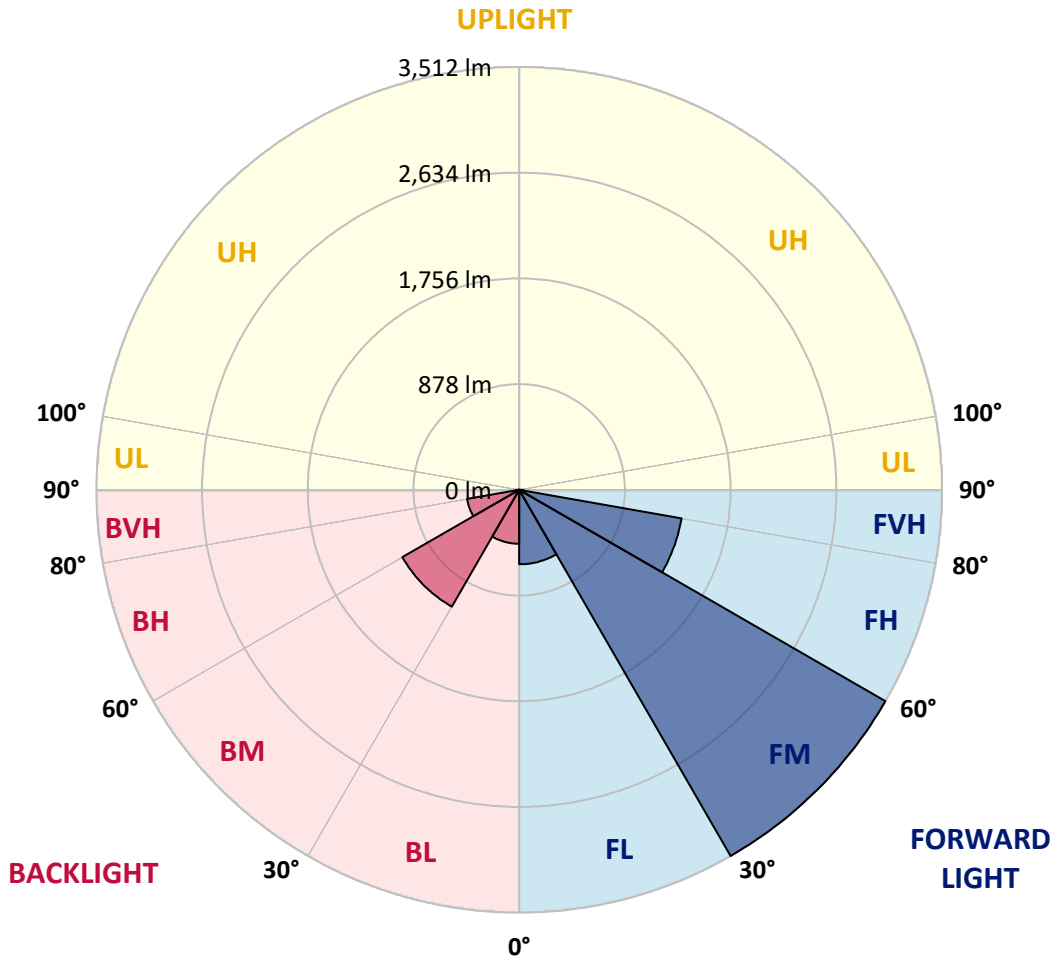
Scaled Data Report

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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°) | 618.7 | 8.2 | | | |
| FM | (30°-60°) | 3511.6 | 46.4 | | | |
| FH | (60°-80°) | 1369.8 | 18.1 | | | G1/1800 |
| FVH | (80°-90°) | 31.7 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 448.1 | 5.9 | B1/500 | | |
| BM | (30°-60°) | 1120.4 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 439.2 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 27.0 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G1**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 |
| 2.5° | 1241.5 | 1245.0 | 1239.8 | 1243.3 | 1243.3 | 1238.1 | 1236.4 | 1229.5 | 1232.9 | 1231.2 | 1229.5 |
| 5° | 1270.9 | 1272.6 | 1269.1 | 1274.3 | 1274.3 | 1276.0 | 1274.3 | 1265.7 | 1265.7 | 1265.7 | 1262.2 |
| 7.5° | 1262.2 | 1262.2 | 1264.0 | 1281.2 | 1298.4 | 1320.9 | 1320.9 | 1317.4 | 1320.9 | 1319.1 | 1303.6 |
| 10° | 1189.8 | 1196.7 | 1212.2 | 1255.3 | 1296.7 | 1345.0 | 1377.8 | 1388.1 | 1388.1 | 1389.8 | 1364.0 |
| 12.5° | 1060.5 | 1065.7 | 1101.9 | 1167.4 | 1253.6 | 1341.5 | 1420.9 | 1472.6 | 1477.8 | 1486.4 | 1451.9 |
| 15° | 944.9 | 948.4 | 974.3 | 1041.5 | 1139.8 | 1295.0 | 1445.0 | 1551.9 | 1569.2 | 1605.4 | 1553.6 |
| 17.5° | 955.3 | 953.6 | 960.5 | 986.3 | 1057.0 | 1219.1 | 1439.8 | 1645.0 | 1676.1 | 1739.9 | 1695.0 |
| 20° | 1017.4 | 1017.4 | 1022.5 | 1027.7 | 1053.6 | 1163.9 | 1401.9 | 1720.9 | 1781.3 | 1905.4 | 1853.7 |
| 22.5° | 1115.7 | 1115.7 | 1113.9 | 1122.6 | 1122.6 | 1188.1 | 1403.6 | 1777.8 | 1867.5 | 2089.9 | 2039.9 |
| 25° | 1251.9 | 1245.0 | 1245.0 | 1248.4 | 1232.9 | 1279.5 | 1446.7 | 1836.4 | 1953.7 | 2308.9 | 2265.8 |
| 27.5° | 1405.4 | 1410.5 | 1407.1 | 1395.0 | 1374.3 | 1410.5 | 1550.2 | 1927.8 | 2050.3 | 2540.0 | 2522.7 |
| 30° | 1572.6 | 1574.3 | 1577.8 | 1570.9 | 1553.6 | 1579.5 | 1712.3 | 2065.8 | 2177.9 | 2781.4 | 2819.3 |
| 32.5° | 1736.4 | 1760.6 | 1751.9 | 1734.7 | 1741.6 | 1788.2 | 1912.3 | 2252.0 | 2367.5 | 3005.6 | 3140.1 |
| 35° | 1945.1 | 1953.7 | 1988.2 | 1924.4 | 1926.1 | 2005.4 | 2167.5 | 2496.9 | 2609.0 | 3238.3 | 3460.8 |
| 37.5° | 2248.6 | 2264.1 | 2248.6 | 2148.5 | 2133.0 | 2243.4 | 2415.8 | 2738.3 | 2819.3 | 3414.2 | 3759.1 |
| 40° | 2546.9 | 2565.8 | 2591.7 | 2474.5 | 2376.2 | 2467.6 | 2650.3 | 2922.8 | 3007.3 | 3510.8 | 3957.4 |
| 42.5° | 2793.5 | 2824.5 | 2796.9 | 2762.4 | 2672.8 | 2690.0 | 2814.2 | 3065.9 | 3150.4 | 3633.2 | 4157.4 |
| 45° | 3002.1 | 3007.3 | 3019.3 | 2995.2 | 2950.4 | 2934.9 | 2953.8 | 3191.8 | 3284.9 | 3688.4 | 4255.7 |
| 47.5° | 3088.3 | 3110.7 | 3121.1 | 3162.5 | 3209.0 | 3178.0 | 3072.8 | 3250.4 | 3334.9 | 3685.0 | 4286.8 |
| 50° | 3041.8 | 3064.2 | 3119.4 | 3217.7 | 3329.7 | 3384.9 | 3212.5 | 3331.5 | 3426.3 | 3747.0 | 4350.6 |
| 52.5° | 2919.3 | 2943.5 | 3033.1 | 3145.2 | 3333.2 | 3459.1 | 3409.1 | 3500.4 | 3591.8 | 3857.4 | 4457.5 |
| 55° | 2622.7 | 2659.0 | 2784.8 | 2971.1 | 3229.7 | 3419.4 | 3616.0 | 3748.8 | 3848.8 | 3990.2 | 4567.8 |
| 57.5° | 2191.7 | 2229.6 | 2371.0 | 2650.3 | 3038.3 | 3255.6 | 3676.3 | 4214.3 | 4259.2 | 4148.8 | 4578.2 |
| 60° | *1641.6* | *1672.6* | *1872.7* | *2096.8* | *2552.0* | *2955.5* | *3641.8* | *4655.8* | *4769.6* | *4121.2* | *4248.8* |
| 62.5° | 1300.2 | 1338.1 | 1515.7 | 1619.2 | 1945.1 | 2441.7 | 3521.1 | 4778.2 | 4876.5 | 3893.6 | 3790.1 |
| 65° | 1015.6 | 1041.5 | 1207.1 | 1355.3 | 1434.7 | 1667.5 | 3017.6 | 4179.8 | 4267.8 | 3522.9 | 3128.0 |
| 67.5° | 670.8 | 710.4 | 907.0 | 1110.5 | 1151.9 | 1060.5 | 2076.1 | 3215.9 | 3257.3 | 2800.4 | 2352.0 |
| 70° | 481.1 | 500.1 | 646.6 | 863.9 | 926.0 | 710.4 | 1131.2 | 2434.8 | 2446.9 | 1879.5 | 1584.7 |
| 72.5° | 327.6 | 331.1 | 439.7 | 662.2 | 738.0 | 515.6 | 622.5 | 1603.7 | 1562.3 | 927.7 | 907.0 |
| 75° | 222.4 | 225.9 | 281.1 | 441.4 | 522.5 | 358.7 | 405.2 | 874.2 | 839.8 | 512.1 | 550.1 |
| 77.5° | 150.0 | 153.5 | 193.1 | 296.6 | 348.3 | 248.3 | 296.6 | 462.1 | 453.5 | 339.7 | 294.9 |
| 80° | 113.8 | 119.0 | 143.1 | 189.7 | 243.1 | 144.8 | 169.0 | 219.0 | 222.4 | 181.1 | 150.0 |
| 82.5° | 63.8 | 70.7 | 86.2 | 96.6 | 156.9 | 81.0 | 81.0 | 131.1 | 125.9 | 112.1 | 81.0 |
| 85° | 27.6 | 29.3 | 34.5 | 36.2 | 63.8 | 34.5 | 29.3 | 56.9 | 58.6 | 55.2 | 25.9 |
| 87.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.9 | 6.9 | 6.9 | 6.9 |
| 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° | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 |
| 2.5° | 1220.8 | 1231.2 | 1220.8 | 1215.7 | 1215.7 | 1207.1 | 1203.6 | 1203.6 | 1191.5 | 1196.7 | 1193.3 |
| 5° | 1248.4 | 1251.9 | 1239.8 | 1224.3 | 1203.6 | 1186.4 | 1162.2 | 1131.2 | 1112.2 | 1110.5 | 1112.2 |
| 7.5° | 1291.5 | 1293.3 | 1260.5 | 1226.0 | 1174.3 | 1112.2 | 1038.1 | 977.7 | 924.3 | 915.6 | 926.0 |
| 10° | 1351.9 | 1348.4 | 1300.2 | 1219.1 | 1110.5 | 979.4 | 865.6 | 810.4 | 779.4 | 777.7 | 776.0 |
| 12.5° | 1432.9 | 1410.5 | 1336.4 | 1189.8 | 1000.1 | 848.4 | 789.8 | 786.3 | 794.9 | 801.8 | 803.6 |
| 15° | 1526.1 | 1496.7 | 1365.7 | 1132.9 | 888.0 | 800.1 | 803.6 | 832.9 | 843.2 | 850.1 | 850.1 |
| 17.5° | 1641.6 | 1603.7 | 1398.5 | 1051.9 | 831.1 | 810.4 | 834.6 | 862.2 | 879.4 | 886.3 | 884.6 |
| 20° | 1795.1 | 1715.7 | 1424.3 | 974.3 | 815.6 | 827.7 | 848.4 | 876.0 | 893.2 | 901.8 | 901.8 |
| 22.5° | 1948.5 | 1850.2 | 1429.5 | 920.8 | 815.6 | 829.4 | 848.4 | 876.0 | 894.9 | 903.6 | 901.8 |
| 25° | 2157.2 | 2022.7 | 1431.2 | 882.9 | 817.3 | 820.8 | 838.0 | 862.2 | 889.8 | 898.4 | 901.8 |
| 27.5° | 2379.6 | 2212.4 | 1439.8 | 874.2 | 810.4 | 808.7 | 820.8 | 843.2 | 870.8 | 893.2 | 894.9 |
| 30° | 2655.5 | 2426.2 | 1443.3 | 882.9 | 812.2 | 789.8 | 798.4 | 820.8 | 850.1 | 872.5 | 879.4 |
| 32.5° | 2926.2 | 2624.5 | 1436.4 | 901.8 | 815.6 | 777.7 | 779.4 | 793.2 | 824.2 | 839.8 | 851.8 |
| 35° | 3212.5 | 2834.8 | 1424.3 | 927.7 | 817.3 | 772.5 | 757.0 | 763.9 | 784.6 | 786.3 | 791.5 |
| 37.5° | 3436.6 | 2991.8 | 1388.1 | 962.2 | 820.8 | 753.5 | 722.5 | 717.3 | 708.7 | 691.5 | 694.9 |
| 40° | 3621.2 | 3096.9 | 1327.8 | 979.4 | 812.2 | 731.1 | 679.4 | 655.3 | 622.5 | 596.6 | 601.8 |
| 42.5° | 3753.9 | 3167.6 | 1255.3 | 982.9 | 798.4 | 693.2 | 629.4 | 588.0 | 551.8 | 524.2 | 525.9 |
| 45° | 3812.6 | 3160.7 | 1177.7 | 957.0 | 765.6 | 646.6 | 582.8 | 543.2 | 503.5 | 474.2 | 470.7 |
| 47.5° | 3814.3 | 3093.5 | 1070.8 | 894.9 | 710.4 | 593.2 | 539.7 | 496.6 | 463.9 | 443.2 | 441.4 |
| 50° | 3828.1 | 3055.6 | 970.8 | 805.3 | 638.0 | 536.3 | 501.8 | 458.7 | 439.7 | 410.4 | 401.8 |
| 52.5° | 3914.3 | 3117.6 | 901.8 | 707.0 | 570.8 | 494.9 | 469.0 | 431.1 | 400.1 | 381.1 | 379.4 |
| 55° | 4054.0 | 3224.5 | 863.9 | 632.8 | 507.0 | 455.2 | 438.0 | 405.2 | 377.6 | 358.7 | 353.5 |
| 57.5° | 4071.2 | 3279.7 | 819.1 | 563.9 | 455.2 | 424.2 | 417.3 | 381.1 | 341.4 | 327.6 | 322.5 |
| 60° | *3829.8* | *3186.6* | *763.9* | *500.1* | *417.3* | *400.1* | *396.6* | *348.3* | *315.6* | *298.3* | *291.4* |
| 62.5° | 3500.4 | 2953.8 | 679.4 | 441.4 | 388.0 | 375.9 | 362.1 | 324.2 | 282.8 | 263.8 | 258.7 |
| 65° | 2860.7 | 2483.1 | 577.7 | 401.8 | 358.7 | 344.9 | 341.4 | 289.7 | 262.1 | 251.8 | 250.0 |
| 67.5° | 2167.5 | 1995.1 | 508.7 | 372.5 | 327.6 | 322.5 | 310.4 | 293.1 | 281.1 | 269.0 | 265.6 |
| 70° | 1533.0 | 1439.8 | 432.8 | 334.5 | 296.6 | 288.0 | 338.0 | 319.0 | 275.9 | 260.4 | 258.7 |
| 72.5° | 929.4 | 903.6 | 374.2 | 300.0 | 255.2 | 269.0 | 312.1 | 288.0 | 248.3 | 229.3 | 222.4 |
| 75° | 586.3 | 536.3 | 313.8 | 255.2 | 203.5 | 219.0 | 272.4 | 256.9 | 213.8 | 194.9 | 189.7 |
| 77.5° | 319.0 | 296.6 | 236.2 | 208.6 | 160.4 | 177.6 | 238.0 | 212.1 | 170.7 | 186.2 | 165.5 |
| 80° | 139.7 | 155.2 | 156.9 | 120.7 | 106.9 | 131.1 | 170.7 | 165.5 | 131.1 | 132.8 | 110.4 |
| 82.5° | 67.2 | 87.9 | 101.7 | 82.8 | 60.4 | 77.6 | 113.8 | 94.8 | 87.9 | 82.8 | 79.3 |
| 85° | 20.7 | 32.8 | 44.8 | 39.7 | 27.6 | 32.8 | 53.5 | 51.7 | 62.1 | 53.5 | 50.0 |
| 87.5° | 6.9 | 6.9 | 5.2 | 5.2 | 5.2 | 6.9 | 8.6 | 5.2 | 1.7 | 1.7 | 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° | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 |
| 2.5° | 1191.5 | 1193.3 | 1193.3 | 1195.0 | 1195.0 | 1200.2 | 1207.1 | 1213.9 | 1208.8 | 1215.7 | 1217.4 |
| 5° | 1108.8 | 1117.4 | 1124.3 | 1150.1 | 1170.8 | 1188.1 | 1207.1 | 1224.3 | 1229.5 | 1232.9 | 1241.5 |
| 7.5° | 913.9 | 938.1 | 982.9 | 1041.5 | 1107.0 | 1170.8 | 1213.9 | 1258.8 | 1265.7 | 1274.3 | 1286.4 |
| 10° | 777.7 | 788.0 | 819.1 | 879.4 | 996.7 | 1122.6 | 1227.7 | 1298.4 | 1327.8 | 1345.0 | 1357.1 |
| 12.5° | 800.1 | 793.2 | 788.0 | 796.7 | 872.5 | 1034.6 | 1219.1 | 1355.3 | 1410.5 | 1429.5 | 1445.0 |
| 15° | 853.6 | 846.7 | 827.7 | 803.6 | 812.2 | 941.5 | 1189.8 | 1408.8 | 1496.7 | 1527.8 | 1560.5 |
| 17.5° | 884.6 | 877.7 | 862.2 | 836.3 | 813.9 | 863.9 | 1134.6 | 1457.1 | 1633.0 | 1670.9 | 1717.5 |
| 20° | 901.8 | 894.9 | 879.4 | 853.6 | 827.7 | 834.6 | 1063.9 | 1517.4 | 1788.2 | 1848.5 | 1917.5 |
| 22.5° | 905.3 | 896.7 | 879.4 | 853.6 | 838.0 | 832.9 | 996.7 | 1553.6 | 1955.4 | 2048.5 | 2127.9 |
| 25° | 903.6 | 888.0 | 865.6 | 846.7 | 838.0 | 836.3 | 950.1 | 1574.3 | 2136.5 | 2284.8 | 2374.4 |
| 27.5° | 891.5 | 872.5 | 850.1 | 836.3 | 832.9 | 843.2 | 929.4 | 1598.5 | 2348.6 | 2538.3 | 2681.4 |
| 30° | 877.7 | 850.1 | 822.5 | 817.3 | 826.0 | 858.7 | 946.7 | 1607.1 | 2571.0 | 2814.2 | 2960.7 |
| 32.5° | 841.5 | 820.8 | 793.2 | 791.5 | 812.2 | 870.8 | 986.3 | 1595.0 | 2767.6 | 3090.0 | 3274.6 |
| 35° | 789.8 | 777.7 | 762.2 | 767.3 | 800.1 | 881.1 | 1013.9 | 1557.1 | 2946.9 | 3347.0 | 3562.5 |
| 37.5° | 698.4 | 707.0 | 715.6 | 727.7 | 769.1 | 879.4 | 1026.0 | 1496.7 | 3095.2 | 3552.2 | 3828.1 |
| 40° | 596.6 | 625.9 | 653.5 | 684.6 | 739.7 | 865.6 | 1029.4 | 1422.6 | 3181.4 | 3707.4 | 4064.3 |
| 42.5° | 532.8 | 560.4 | 594.9 | 639.7 | 700.1 | 834.6 | 1026.0 | 1339.8 | 3209.0 | 3814.3 | 4214.3 |
| 45° | 474.2 | 507.0 | 550.1 | 596.6 | 665.6 | 789.8 | 995.0 | 1250.2 | 3222.8 | 3864.3 | 4278.1 |
| 47.5° | 443.2 | 462.1 | 501.8 | 548.3 | 620.8 | 734.6 | 934.6 | 1184.6 | 3202.1 | 3874.6 | 4355.7 |
| 50° | 406.9 | 432.8 | 458.7 | 503.5 | 574.2 | 665.6 | 862.2 | 1146.7 | 3236.6 | 3976.4 | 4478.2 |
| 52.5° | 379.4 | 393.2 | 420.7 | 462.1 | 513.9 | 601.8 | 793.2 | 1115.7 | 3331.5 | 4079.8 | 4605.8 |
| 55° | 358.7 | 374.2 | 391.4 | 425.9 | 465.6 | 538.0 | 722.5 | 1069.1 | 3441.8 | 4190.2 | 4733.4 |
| 57.5° | 325.9 | 336.2 | 360.4 | 396.6 | 422.5 | 475.9 | 639.7 | 1013.9 | 3433.2 | 4104.0 | 4512.6 |
| 60° | *296.6* | *306.9* | *332.8* | *369.0* | *384.5* | *420.7* | *558.7* | *943.2* | *3267.7* | *3822.9* | *4105.7* |
| 62.5° | 263.8 | 275.9 | 306.9 | 332.8 | 346.6 | 374.2 | 474.2 | 813.9 | 2922.8 | 3400.4 | 3629.8 |
| 65° | 250.0 | 256.9 | 277.6 | 308.7 | 306.9 | 332.8 | 400.1 | 639.7 | 2352.0 | 2598.6 | 2807.3 |
| 67.5° | 265.6 | 275.9 | 272.4 | 281.1 | 275.9 | 289.7 | 358.7 | 513.9 | 1848.5 | 1957.1 | 2077.9 |
| 70° | 262.1 | 286.2 | 298.3 | 281.1 | 241.4 | 256.9 | 310.4 | 410.4 | 1322.6 | 1312.2 | 1307.1 |
| 72.5° | 229.3 | 253.5 | 288.0 | 305.2 | 236.2 | 213.8 | 269.0 | 355.2 | 848.4 | 844.9 | 763.9 |
| 75° | 194.9 | 212.1 | 253.5 | 275.9 | 203.5 | 172.4 | 231.1 | 301.8 | 507.0 | 513.9 | 458.7 |
| 77.5° | 179.3 | 170.7 | 212.1 | 243.1 | 165.5 | 132.8 | 186.2 | 227.6 | 279.3 | 282.8 | 262.1 |
| 80° | 129.3 | 124.2 | 158.6 | 177.6 | 125.9 | 94.8 | 105.2 | 141.4 | 150.0 | 134.5 | 139.7 |
| 82.5° | 82.8 | 84.5 | 94.8 | 113.8 | 77.6 | 51.7 | 72.4 | 94.8 | 81.0 | 65.5 | 77.6 |
| 85° | 53.5 | 60.4 | 50.0 | 58.6 | 24.1 | 24.1 | 31.0 | 41.4 | 27.6 | 19.0 | 20.7 |
| 87.5° | 0.0 | 0.0 | 3.4 | 6.9 | 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: P1501690
CATALOG NUMBER: GSS-SB2B-940-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1217.4 | 1217.4 | *1217.4* | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 | 1217.4 |
| 2.5° | 1222.6 | 1220.8 | *1220.8* | 1224.3 | 1232.9 | 1236.4 | 1241.5 | 1239.8 | 1245.0 | 1241.5 |
| 5° | 1246.7 | 1248.4 | *1253.6* | 1255.3 | 1260.5 | 1267.4 | 1269.1 | 1267.4 | 1270.9 | 1270.9 |
| 7.5° | 1295.0 | 1301.9 | *1298.4* | 1307.1 | 1300.2 | 1291.5 | 1277.7 | 1267.4 | 1258.8 | 1262.2 |
| 10° | 1376.0 | 1372.6 | *1370.9* | 1355.3 | 1324.3 | 1279.5 | 1243.3 | 1203.6 | 1196.7 | 1189.8 |
| 12.5° | 1465.7 | 1462.3 | *1462.3* | 1408.8 | 1320.9 | 1227.7 | 1145.0 | 1082.9 | 1062.2 | 1060.5 |
| 15° | 1591.6 | 1569.2 | *1548.5* | 1436.4 | 1260.5 | 1101.9 | 1005.3 | 957.0 | 944.9 | 944.9 |
| 17.5° | 1748.5 | 1689.9 | *1655.4* | 1415.7 | 1162.2 | 1019.1 | 962.2 | 950.1 | 946.7 | 955.3 |
| 20° | 1943.4 | 1795.1 | *1745.0* | 1369.1 | 1126.0 | 1029.4 | 1001.9 | 1003.6 | 1005.3 | 1017.4 |
| 22.5° | 2157.2 | 1891.6 | *1808.9* | 1369.1 | 1162.2 | 1095.0 | 1081.2 | 1100.1 | 1105.3 | 1115.7 |
| 25° | 2395.1 | 1977.8 | *1865.8* | 1441.6 | 1269.1 | 1219.1 | 1201.9 | 1220.8 | 1234.6 | 1251.9 |
| 27.5° | 2662.4 | 2067.5 | *1964.0* | 1572.6 | 1407.1 | 1376.0 | 1357.1 | 1365.7 | 1384.7 | 1405.4 |
| 30° | 2902.1 | 2217.5 | *2114.1* | 1772.6 | 1595.0 | 1557.1 | 1524.3 | 1538.1 | 1558.8 | 1572.6 |
| 32.5° | 3114.2 | 2400.3 | *2312.4* | 1983.0 | 1810.6 | 1745.0 | 1708.8 | 1705.4 | 1746.8 | 1736.4 |
| 35° | 3309.0 | 2615.8 | *2531.4* | 2222.7 | 2029.6 | 1948.5 | 1900.2 | 1962.3 | 1934.7 | 1945.1 |
| 37.5° | 3462.5 | 2840.0 | *2772.8* | 2452.0 | 2257.2 | 2146.8 | 2117.5 | 2193.4 | 2236.5 | 2248.6 |
| 40° | 3588.4 | 3034.9 | *2964.2* | 2679.7 | 2465.8 | 2384.8 | 2431.3 | 2557.2 | 2552.0 | 2546.9 |
| 42.5° | 3685.0 | 3202.1 | *3124.5* | 2852.1 | 2665.9 | 2681.4 | 2717.6 | 2802.1 | 2822.8 | 2793.5 |
| 45° | 3728.1 | 3307.3 | *3245.2* | 2988.3 | 2893.5 | 2983.1 | 2998.7 | 3034.9 | 3021.1 | 3002.1 |
| 47.5° | 3778.1 | 3400.4 | *3334.9* | 3112.5 | 3140.1 | 3228.0 | 3197.0 | 3167.6 | 3117.6 | 3088.3 |
| 50° | 3862.6 | 3510.8 | *3455.6* | 3293.5 | 3393.5 | 3364.2 | 3243.5 | 3178.0 | 3076.3 | 3041.8 |
| 52.5° | 4022.9 | 3719.4 | *3678.1* | 3579.8 | 3512.5 | 3343.5 | 3197.0 | 3079.7 | 2965.9 | 2919.3 |
| 55° | 4166.0 | 4002.2 | *3978.1* | 3847.0 | 3476.3 | 3234.9 | 3038.3 | 2857.3 | 2662.4 | 2622.7 |
| 57.5° | 4248.8 | 4471.3 | *4498.8* | 3960.8 | 3310.8 | 2988.3 | 2698.6 | 2408.9 | 2224.4 | 2191.7 |
| 60° | *4002.2* | *4978.2* | *4992.0* | *3938.4* | *3012.5* | *2543.4* | *2102.0* | *1896.8* | *1698.5* | *1641.6* |
| 62.5° | 3662.5 | 4873.0 | *4861.0* | 3803.9 | 2398.6 | 1855.4 | 1596.8 | 1500.2 | 1346.7 | 1300.2 |
| 65° | 3148.7 | 4059.1 | *4072.9* | 3286.6 | 1595.0 | 1341.5 | 1341.5 | 1219.1 | 1048.4 | 1015.6 |
| 67.5° | 2565.8 | 3129.7 | *3098.7* | 2131.3 | 979.4 | 1074.3 | 1126.0 | 950.1 | 710.4 | 670.8 |
| 70° | 1667.5 | 2390.0 | *2346.9* | 1229.5 | 615.6 | 894.9 | 886.3 | 713.9 | 508.7 | 481.1 |
| 72.5° | 717.3 | 1381.2 | *1469.2* | 627.7 | 463.9 | 720.8 | 707.0 | 500.1 | 339.7 | 327.6 |
| 75° | 432.8 | 694.9 | *757.0* | 400.1 | 338.0 | 543.2 | 489.7 | 317.3 | 231.1 | 222.4 |
| 77.5° | 274.2 | 381.1 | *377.6* | 300.0 | 253.5 | 367.3 | 329.4 | 219.0 | 156.9 | 150.0 |
| 80° | 158.6 | 188.0 | *194.9* | 188.0 | 170.7 | 262.1 | 210.4 | 158.6 | 122.4 | 113.8 |
| 82.5° | 101.7 | 117.3 | *119.0* | 91.4 | 94.8 | 169.0 | 113.8 | 93.1 | 70.7 | 63.8 |
| 85° | 44.8 | 50.0 | *48.3* | 31.0 | 31.0 | 69.0 | 39.7 | 37.9 | 27.6 | 27.6 |
| 87.5° | 1.7 | 3.4 | *1.7* | 1.7 | 1.7 | 6.9 | 3.4 | 5.2 | 5.2 | 5.2 |
| 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-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-4

Luminaire Tested: GFLD-SA1-A-940-U-WR-X-BK

Test Date: 06/15/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

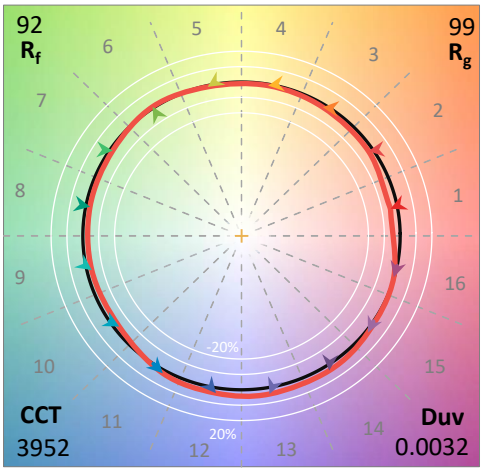
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-940-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3952 | CRI (Ra): | 92.2 | | |
| CIE u': | 0.2242 | R1: | 92.0 | R9: | 63.3 |
| CIE v': | 0.5064 | R2: | 93.7 | R10: | 84.3 |
| Duv: | 0.0032 | R3: | 94.4 | R11: | 92.7 |
| CIE x: | 0.3848 | R4: | 93.1 | R12: | 75.6 |
| CIE y: | 0.3864 | R5: | 91.2 | R13: | 92.2 |
| CIE z: | 0.2287 | R6: | 91.1 | R14: | 96.5 |
| Peak Wavelength (nm): | 614 | R7: | 95.4 | | |
| Dominant Wavelength (nm): | 577 | R8: | 86.5 | | |
| Purity: | 31.6 | | | | |

| | |
|---|---|
| Rf: | 92.2 |
| Rg: | 98.9 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 72M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.8/42% |
| Sphere Temperature (°C): | 24.9 |

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

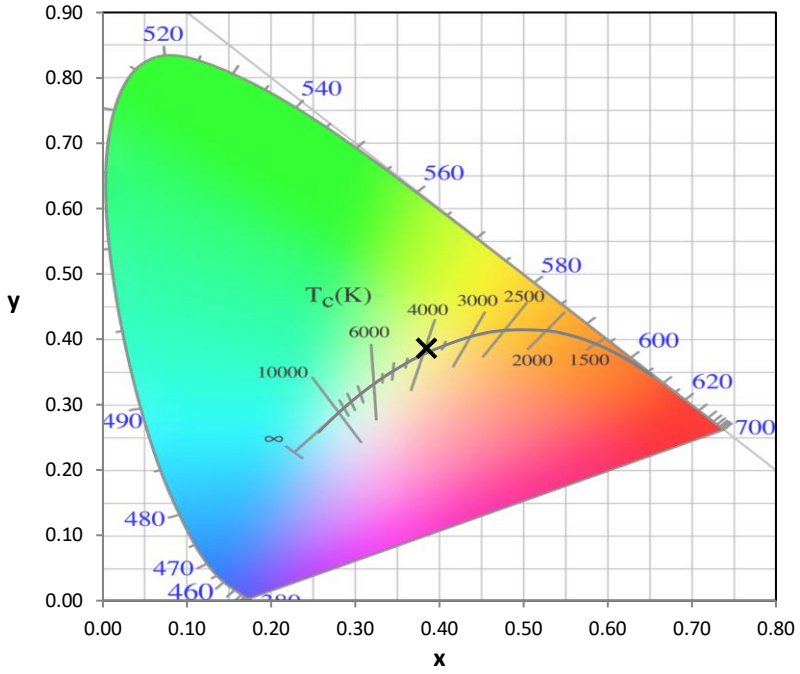
REPORT NUMBER: SP1-2106-271-4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | XITRON 2801 IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61603 IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | AGILENT E3634A IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | ONSET IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | ONSET IN0046 | 12/1/2020 | 12/1/2021 |

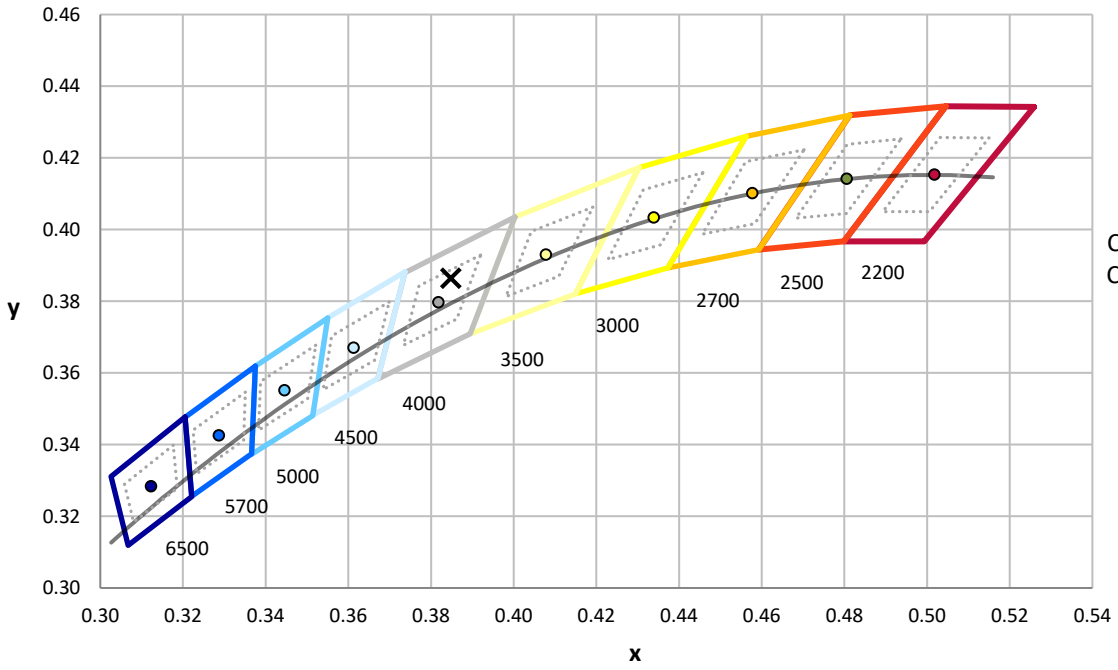
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-4

## CIE 1931 Chromaticity Diagram




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



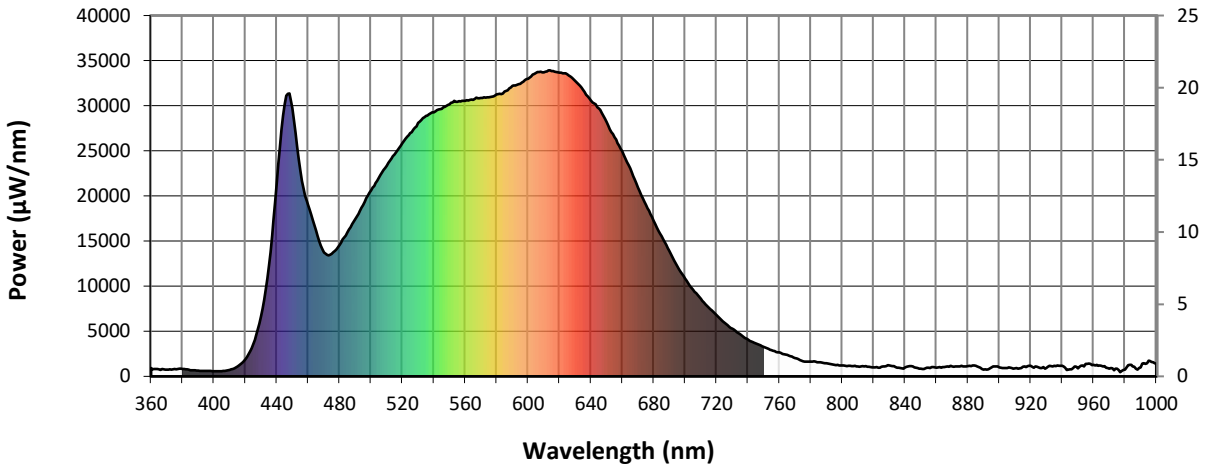

CCT = 3952K
CIE x = 0.3848
CIE y = 0.3864
Duv = 0.0032

Point lies inside the ANSI 4000K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-4

## Photopic Flux vs. Wavelength



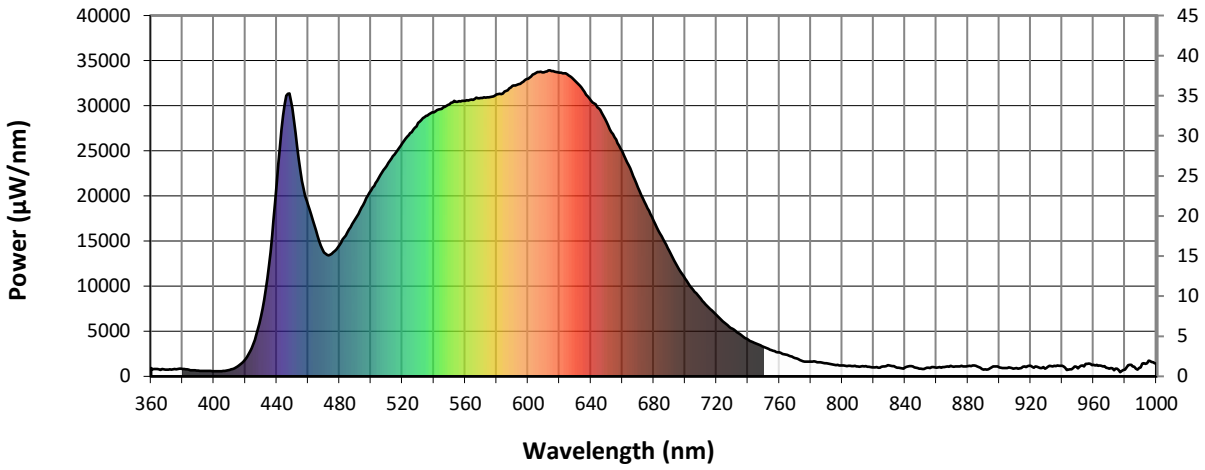

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Scotopic Flux vs. Wavelength



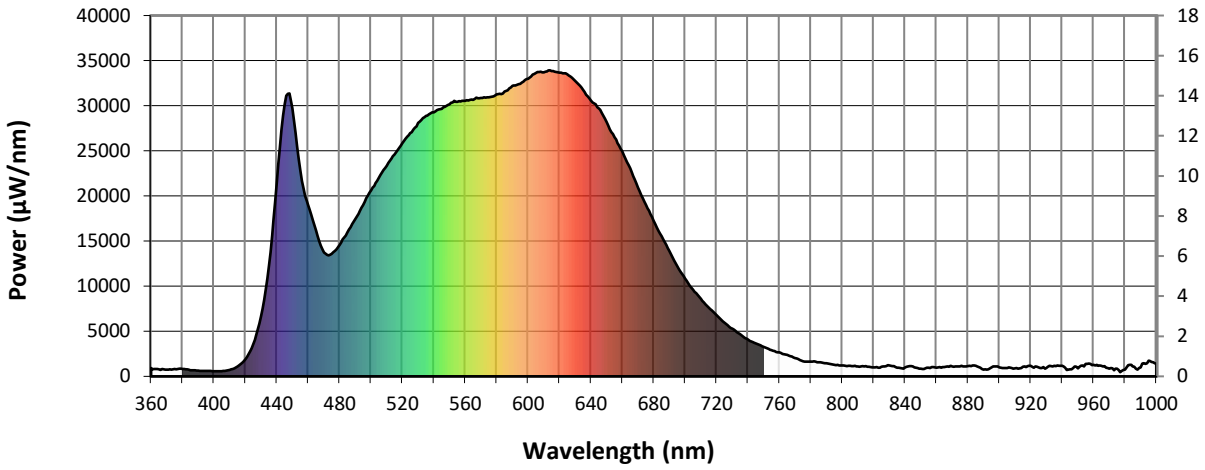

**Scotopic Lumens: 3705.7** **S/P: 1.75**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1498.3** **S/P: 0.71**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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Peachtree City, GA 30269

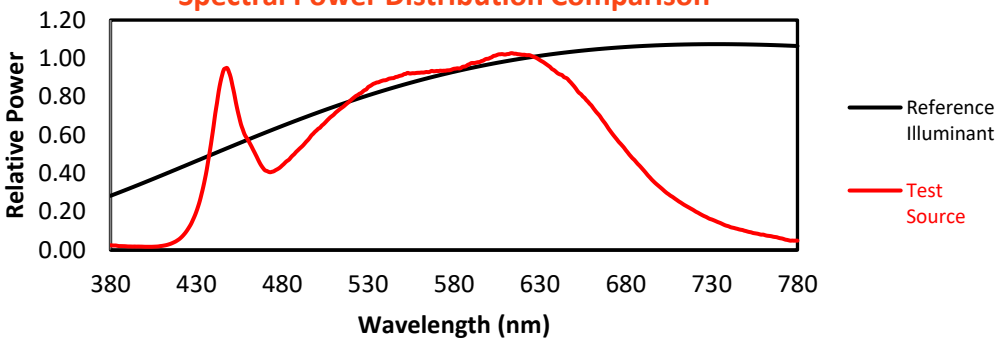
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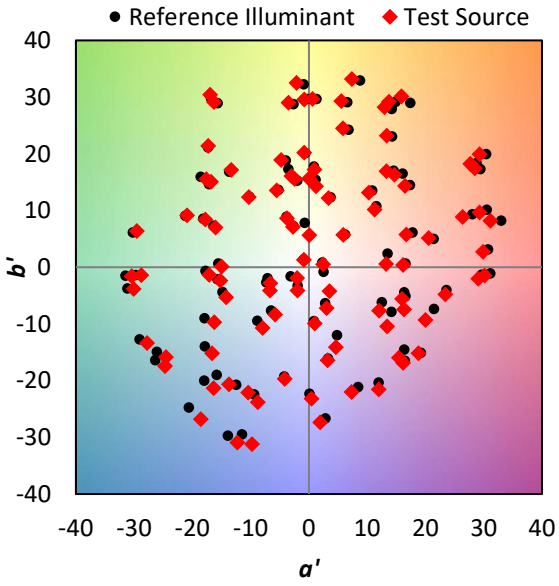
## Summary

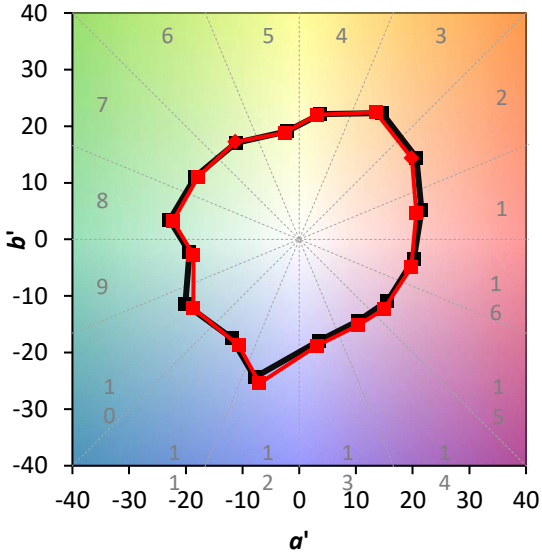
$R_f$ = 92.2
$R_g$ = 98.9
CIE $R_a$ = 92.2
$R_9$ = 63.3

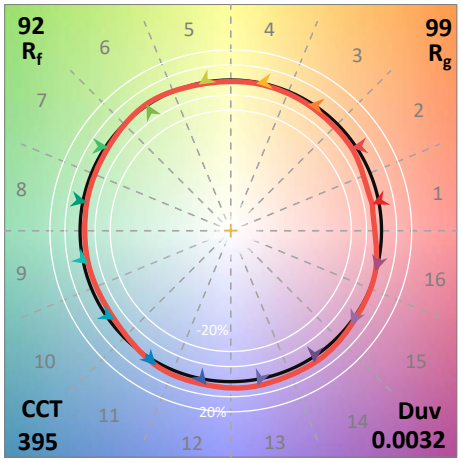
## Spectral Power Distribution Comparison

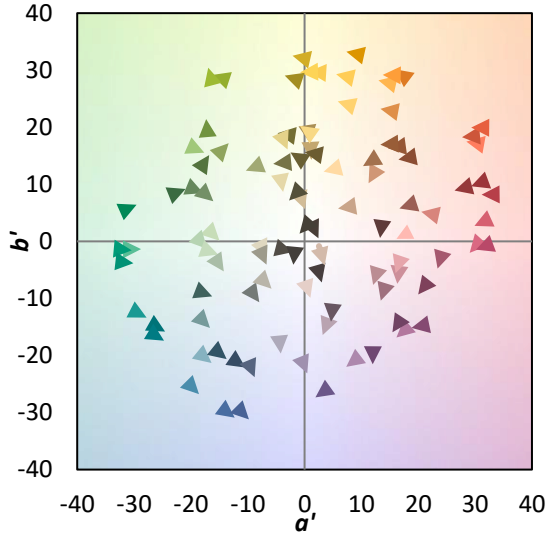



## Color Vector Graphics



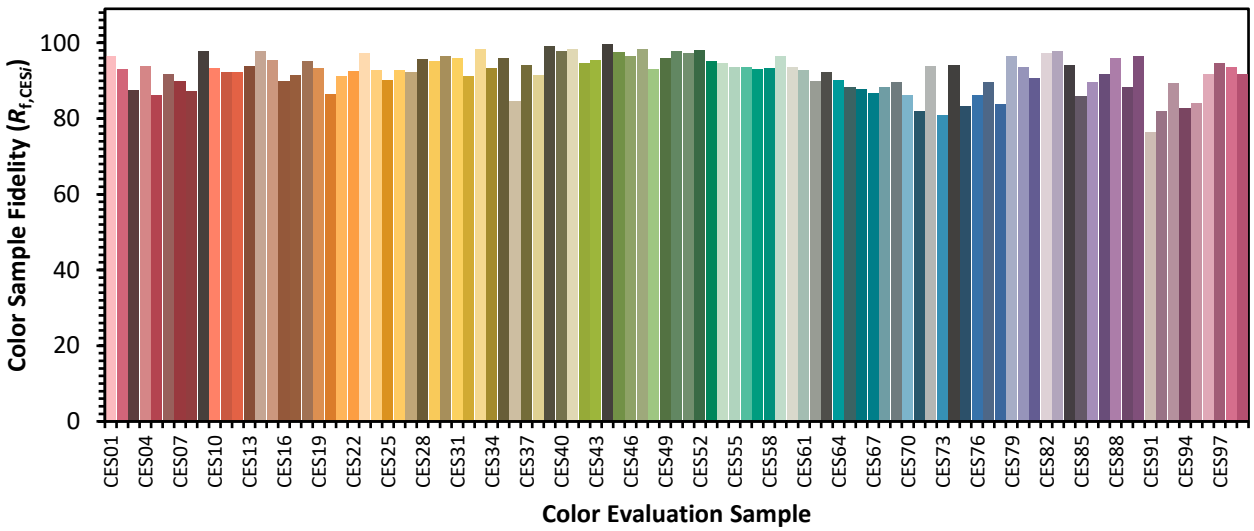
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 93 | CES51 = 97 | CES76 = 86 |
| CES02 = 61 | CES27 = 92 | CES52 = 98 | CES77 = 90 |
| CES03 = 31 | CES28 = 96 | CES53 = 95 | CES78 = 84 |
| CES04 = 69 | CES29 = 95 | CES54 = 95 | CES79 = 97 |
| CES05 = 49 | CES30 = 97 | CES55 = 94 | CES80 = 94 |
| CES06 = 50 | CES31 = 96 | CES56 = 94 | CES81 = 91 |
| CES07 = 42 | CES32 = 91 | CES57 = 93 | CES82 = 97 |
| CES08 = 41 | CES33 = 98 | CES58 = 93 | CES83 = 98 |
| CES09 = 29 | CES34 = 93 | CES59 = 96 | CES84 = 94 |
| CES10 = 74 | CES35 = 96 | CES60 = 94 | CES85 = 86 |
| CES11 = 57 | CES36 = 85 | CES61 = 93 | CES86 = 90 |
| CES12 = 63 | CES37 = 94 | CES62 = 90 | CES87 = 92 |
| CES13 = 43 | CES38 = 91 | CES63 = 92 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 90 | CES89 = 88 |
| CES15 = 71 | CES40 = 98 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 98 | CES66 = 88 | CES91 = 76 |
| CES17 = 49 | CES42 = 95 | CES67 = 87 | CES92 = 82 |
| CES18 = 56 | CES43 = 95 | CES68 = 88 | CES93 = 89 |
| CES19 = 71 | CES44 = 100 | CES69 = 90 | CES94 = 83 |
| CES20 = 66 | CES45 = 97 | CES70 = 86 | CES95 = 84 |
| CES21 = 85 | CES46 = 97 | CES71 = 82 | CES96 = 92 |
| CES22 = 78 | CES47 = 98 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 93 | CES73 = 81 | CES98 = 93 |
| CES24 = 90 | CES49 = 96 | CES74 = 94 | CES99 = 92 |
| CES25 = 71 | CES50 = 98 | CES75 = 83 | |

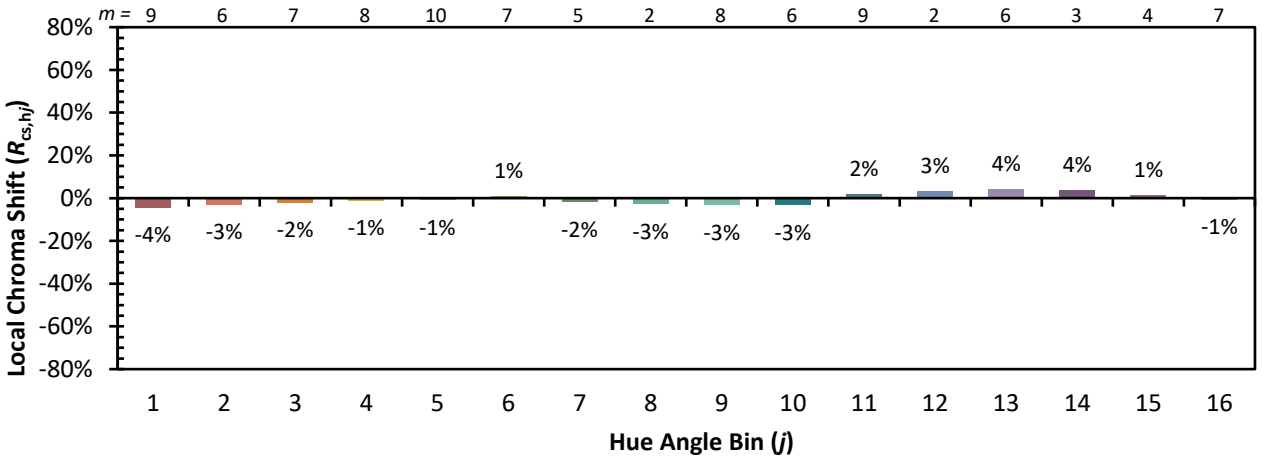


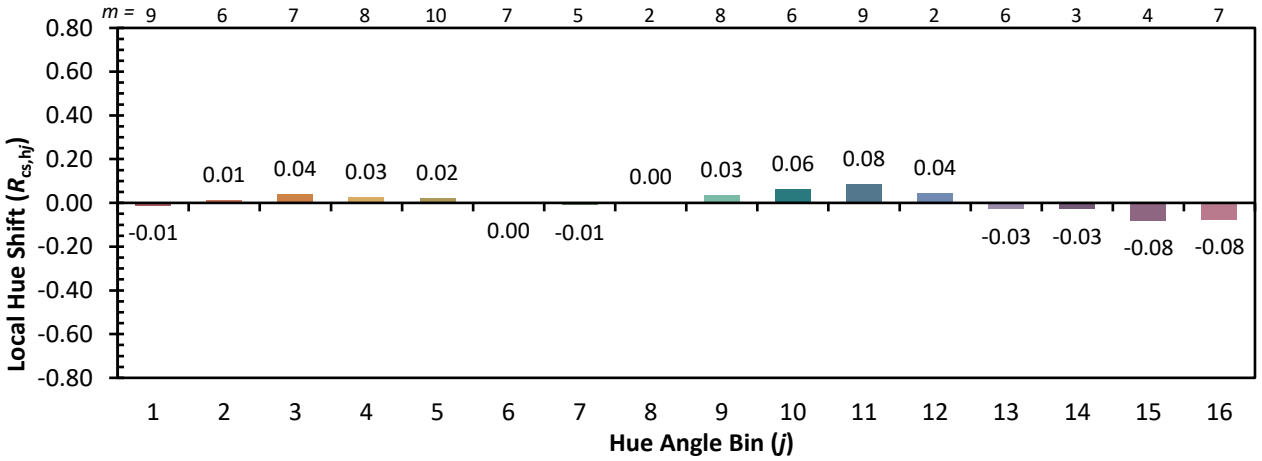
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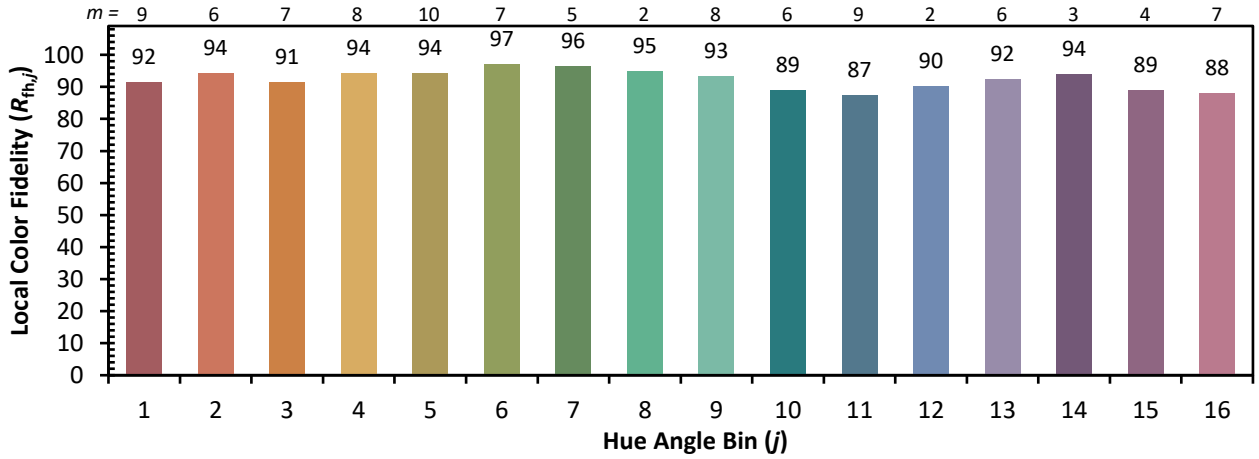
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## Color Rendition by Hue-Angle Bin



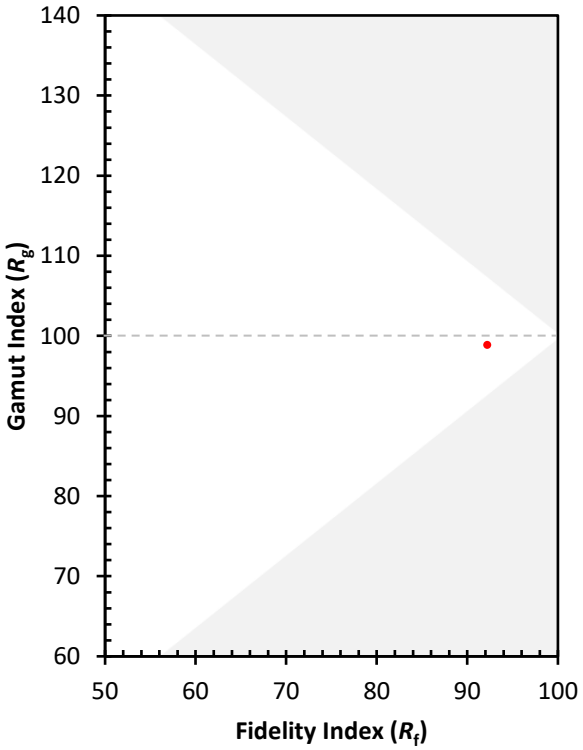



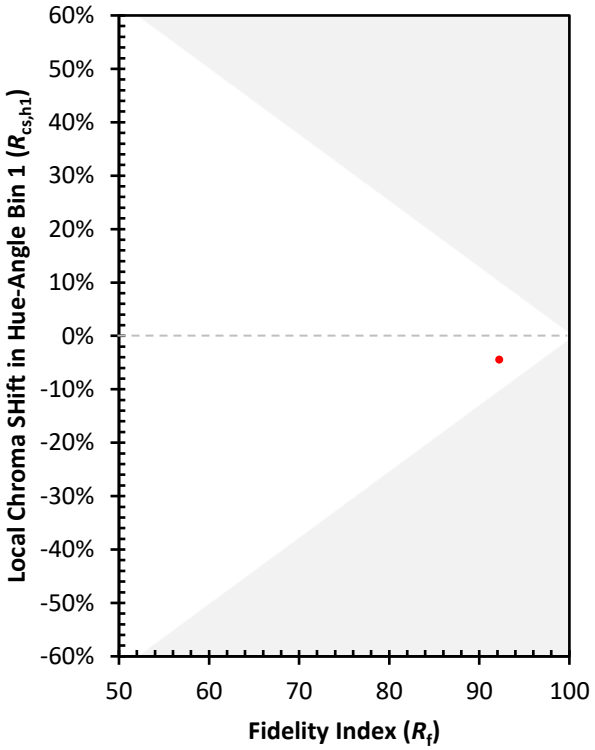
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### Measure Comparisons




(END OF REPORT)