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: P1501642

Luminaire Tested: GSS-SB2B-930-U-T2LG

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: | P1501642 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2B-930-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 90CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (52) 3000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 7268.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 98.2 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G1 |

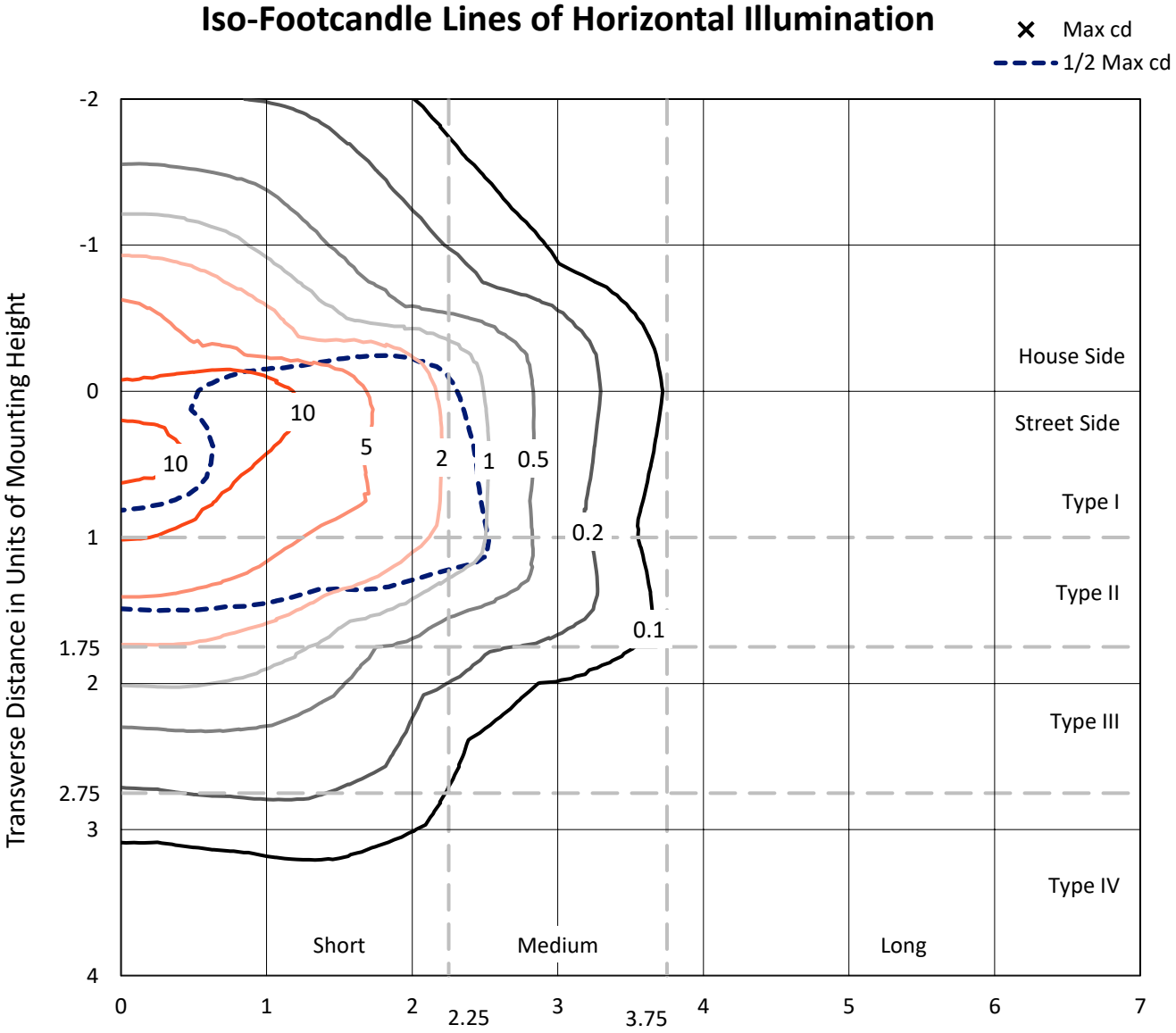
| | |
|---|---|
| Input Watts (W): | 74 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



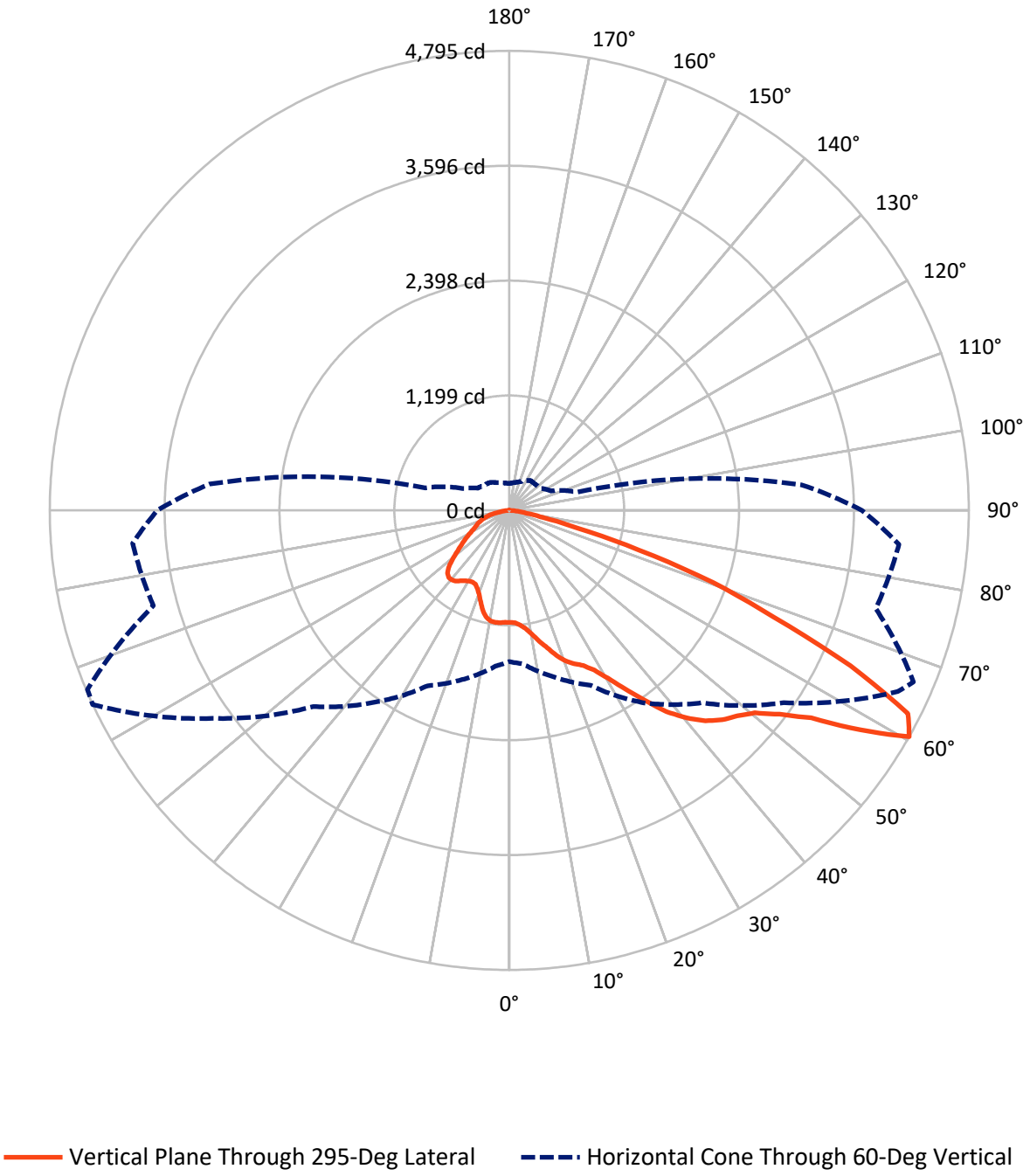

Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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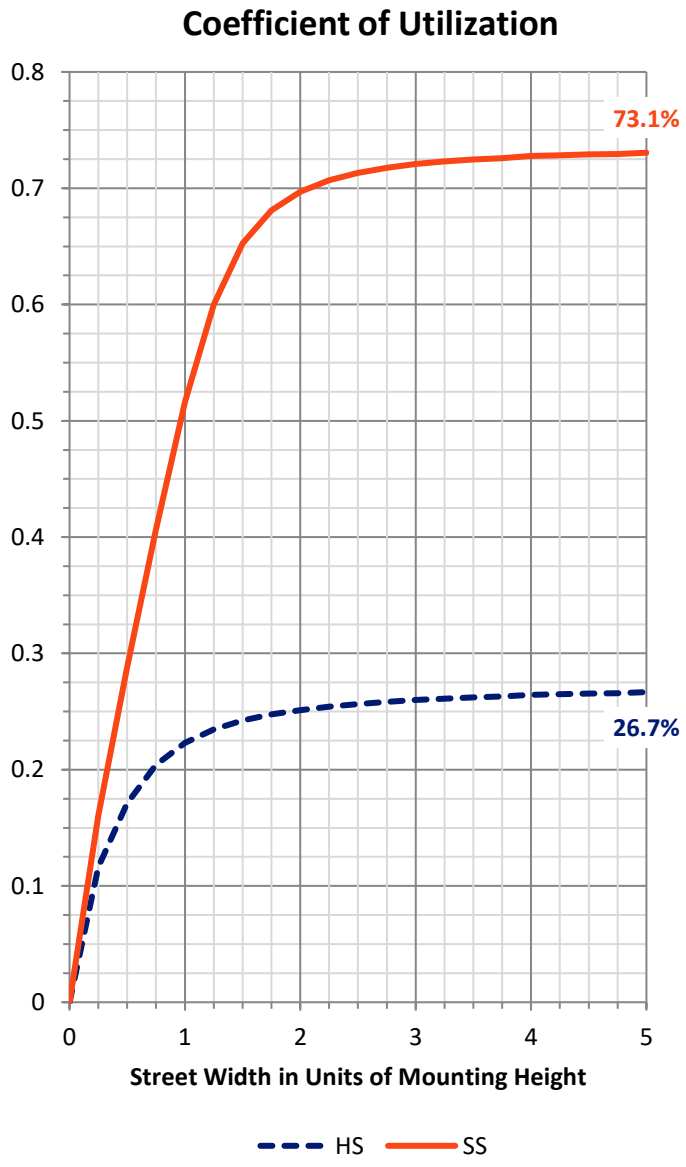
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1954.5 | 0.0 | 1954.5 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 5313.7 | 0.0 | 5313.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 7268.2 | 0.0 | 7268.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 110.0 | 1.5 |
| 10°-20° | 316.1 | 4.3 |
| 20°-30° | 598.7 | 8.2 |
| 30°-40° | 1055.5 | 14.5 |
| 40°-50° | 1560.9 | 21.5 |
| 50°-60° | 1833.0 | 25.2 |
| 60°-70° | 1328.1 | 18.3 |
| 70°-80° | 409.6 | 5.6 |
| 80°-90° | 56.4 | 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° | 7268.2 | 100.0 |
| 0°-180° | 7268.2 | 100.0 |



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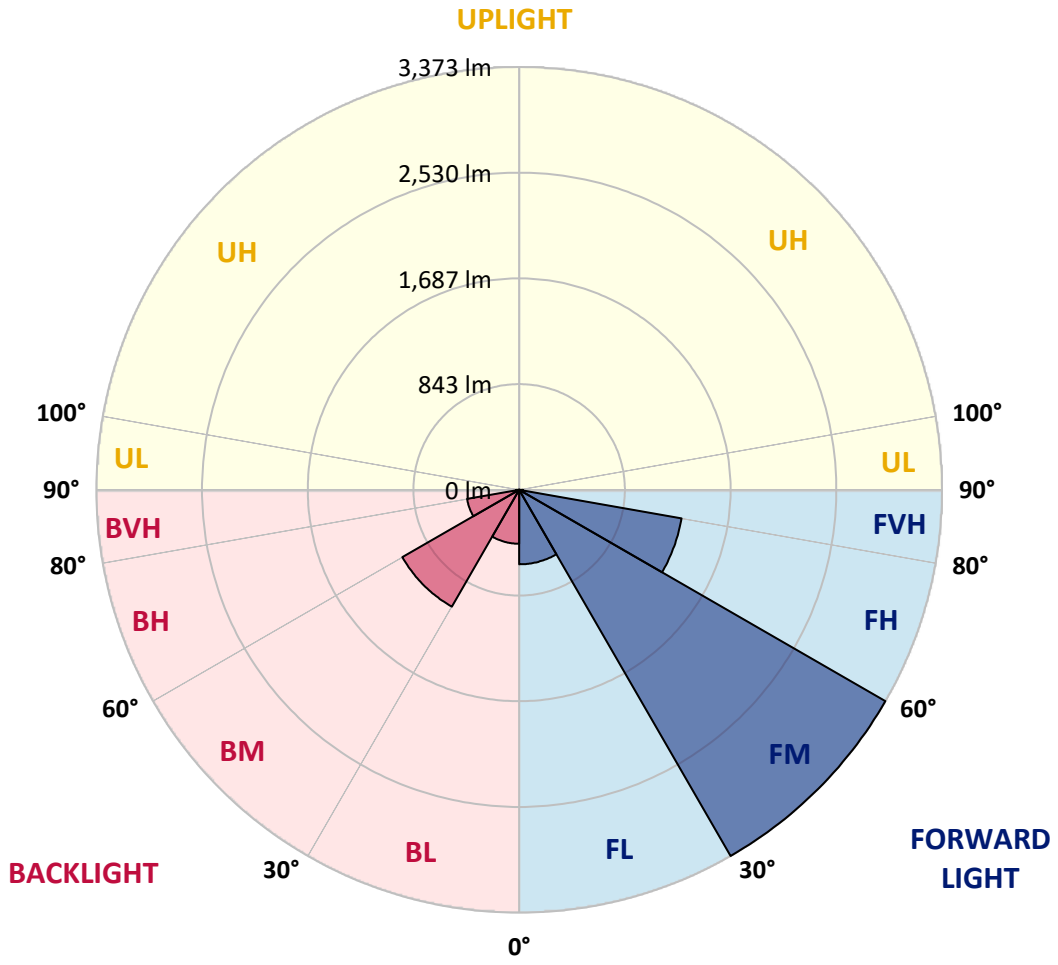
Scaled Data Report

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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°) | 594.3 | 8.2 | | | |
| FM | (30°-60°) | 3373.2 | 46.4 | | | |
| FH | (60°-80°) | 1315.8 | 18.1 | | | G1/1800 |
| FVH | (80°-90°) | 30.4 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 430.4 | 5.9 | B1/500 | | |
| BM | (30°-60°) | 1076.2 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 421.9 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.0 | 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° | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 |
| 2.5° | 1192.6 | 1195.9 | 1190.9 | 1194.3 | 1194.3 | 1189.3 | 1187.6 | 1181.0 | 1184.3 | 1182.7 | 1181.0 |
| 5° | 1220.8 | 1222.4 | 1219.1 | 1224.1 | 1224.1 | 1225.7 | 1224.1 | 1215.8 | 1215.8 | 1215.8 | 1212.5 |
| 7.5° | 1212.5 | 1212.5 | 1214.1 | 1230.7 | 1247.3 | 1268.8 | 1268.8 | 1265.5 | 1268.8 | 1267.1 | 1252.2 |
| 10° | 1142.9 | 1149.5 | 1164.4 | 1205.9 | 1245.6 | 1292.0 | 1323.5 | 1333.4 | 1333.4 | 1335.1 | 1310.2 |
| 12.5° | 1018.7 | 1023.6 | 1058.4 | 1121.4 | 1204.2 | 1288.7 | 1364.9 | 1414.6 | 1419.5 | 1427.8 | 1394.7 |
| 15° | 907.7 | 911.0 | 935.9 | 1000.5 | 1094.9 | 1243.9 | 1388.1 | 1490.8 | 1507.3 | 1542.1 | 1492.4 |
| 17.5° | 917.6 | 916.0 | 922.6 | 947.5 | 1015.4 | 1171.1 | 1383.1 | 1580.2 | 1610.0 | 1671.3 | 1628.2 |
| 20° | 977.3 | 977.3 | 982.2 | 987.2 | 1012.1 | 1118.1 | 1346.6 | 1653.1 | 1711.1 | 1830.3 | 1780.6 |
| 22.5° | 1071.7 | 1071.7 | 1070.0 | 1078.3 | 1078.3 | 1141.3 | 1348.3 | 1707.7 | 1793.9 | 2007.5 | 1959.5 |
| 25° | 1202.5 | 1195.9 | 1195.9 | 1199.2 | 1184.3 | 1229.0 | 1389.7 | 1764.1 | 1876.7 | 2217.9 | 2176.5 |
| 27.5° | 1350.0 | 1354.9 | 1351.6 | 1340.0 | 1320.1 | 1354.9 | 1489.1 | 1851.8 | 1969.4 | 2439.9 | 2423.3 |
| 30° | 1510.6 | 1512.3 | 1515.6 | 1509.0 | 1492.4 | 1517.3 | 1644.8 | 1984.4 | 2092.0 | 2671.8 | 2708.2 |
| 32.5° | 1668.0 | 1691.2 | 1682.9 | 1666.3 | 1673.0 | 1717.7 | 1836.9 | 2163.2 | 2274.2 | 2887.1 | 3016.3 |
| 35° | 1868.4 | 1876.7 | 1909.8 | 1848.5 | 1850.2 | 1926.4 | 2082.1 | 2398.5 | 2506.1 | 3110.7 | 3324.4 |
| 37.5° | 2159.9 | 2174.8 | 2159.9 | 2063.9 | 2049.0 | 2155.0 | 2320.6 | 2630.3 | 2708.2 | 3279.7 | 3610.9 |
| 40° | 2446.5 | 2464.7 | 2489.6 | 2376.9 | 2282.5 | 2370.3 | 2545.9 | 2807.6 | 2888.7 | 3372.4 | 3801.4 |
| 42.5° | 2683.4 | 2713.2 | 2686.7 | 2653.5 | 2567.4 | 2584.0 | 2703.2 | 2945.1 | 3026.2 | 3490.0 | 3993.6 |
| 45° | 2883.8 | 2888.7 | 2900.3 | 2877.1 | 2834.1 | 2819.2 | 2837.4 | 3066.0 | 3155.4 | 3543.0 | 4088.0 |
| 47.5° | 2966.6 | 2988.1 | 2998.1 | 3037.8 | 3082.5 | 3052.7 | 2951.7 | 3122.3 | 3203.5 | 3539.7 | 4117.8 |
| 50° | 2921.9 | 2943.4 | 2996.4 | 3090.8 | 3198.5 | 3251.5 | 3085.9 | 3200.1 | 3291.2 | 3599.3 | 4179.1 |
| 52.5° | 2804.3 | 2827.5 | 2913.6 | 3021.3 | 3201.8 | 3322.7 | 3274.7 | 3362.5 | 3450.3 | 3705.3 | 4281.8 |
| 55° | 2519.4 | 2554.2 | 2675.1 | 2854.0 | 3102.4 | 3284.6 | 3473.4 | 3601.0 | 3697.1 | 3832.9 | 4387.8 |
| 57.5° | 2105.3 | 2141.7 | 2277.5 | 2545.9 | 2918.6 | 3127.3 | 3531.4 | 4048.2 | 4091.3 | 3985.3 | 4397.7 |
| 60° | *1576.9* | *1606.7* | *1798.8* | *2014.2* | *2451.5* | *2839.1* | *3498.3* | *4472.3* | *4581.6* | *3958.8* | *4081.3* |
| 62.5° | 1248.9 | 1285.4 | 1456.0 | 1555.4 | 1868.4 | 2345.4 | 3382.3 | 4589.9 | 4684.3 | 3740.1 | 3640.7 |
| 65° | 975.6 | 1000.5 | 1159.5 | 1301.9 | 1378.1 | 1601.7 | 2898.7 | 4015.1 | 4099.6 | 3384.0 | 3004.7 |
| 67.5° | 644.3 | 682.4 | 871.3 | 1066.7 | 1106.5 | 1018.7 | 1994.3 | 3089.2 | 3128.9 | 2690.0 | 2259.3 |
| 70° | 462.1 | 480.4 | 621.1 | 829.9 | 889.5 | 682.4 | 1086.6 | 2338.8 | 2350.4 | 1805.5 | 1522.2 |
| 72.5° | 314.7 | 318.0 | 422.4 | 636.1 | 708.9 | 495.3 | 598.0 | 1540.4 | 1500.7 | 891.1 | 871.3 |
| 75° | 213.7 | 217.0 | 270.0 | 424.0 | 501.9 | 344.5 | 389.3 | 839.8 | 806.7 | 491.9 | 528.4 |
| 77.5° | 144.1 | 147.4 | 185.5 | 284.9 | 334.6 | 238.5 | 284.9 | 443.9 | 435.6 | 326.3 | 283.2 |
| 80° | 109.3 | 114.3 | 137.5 | 182.2 | 233.6 | 139.1 | 162.3 | 210.4 | 213.7 | 173.9 | 144.1 |
| 82.5° | 61.3 | 67.9 | 82.8 | 92.8 | 150.7 | 77.9 | 77.9 | 125.9 | 120.9 | 107.7 | 77.9 |
| 85° | 26.5 | 28.2 | 33.1 | 34.8 | 61.3 | 33.1 | 28.2 | 54.7 | 56.3 | 53.0 | 24.8 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 6.6 | 6.6 | 6.6 | 6.6 |
| 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° | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 |
| 2.5° | 1172.7 | 1182.7 | 1172.7 | 1167.8 | 1167.8 | 1159.5 | 1156.2 | 1156.2 | 1144.6 | 1149.5 | 1146.2 |
| 5° | 1199.2 | 1202.5 | 1190.9 | 1176.0 | 1156.2 | 1139.6 | 1116.4 | 1086.6 | 1068.4 | 1066.7 | 1068.4 |
| 7.5° | 1240.6 | 1242.3 | 1210.8 | 1177.7 | 1128.0 | 1068.4 | 997.1 | 939.2 | 887.8 | 879.5 | 889.5 |
| 10° | 1298.6 | 1295.3 | 1248.9 | 1171.1 | 1066.7 | 940.8 | 831.5 | 778.5 | 748.7 | 747.0 | 745.4 |
| 12.5° | 1376.5 | 1354.9 | 1283.7 | 1142.9 | 960.7 | 814.9 | 758.6 | 755.3 | 763.6 | 770.2 | 771.9 |
| 15° | 1465.9 | 1437.7 | 1311.9 | 1088.2 | 853.0 | 768.6 | 771.9 | 800.0 | 810.0 | 816.6 | 816.6 |
| 17.5° | 1576.9 | 1540.4 | 1343.3 | 1010.4 | 798.4 | 778.5 | 801.7 | 828.2 | 844.8 | 851.4 | 849.7 |
| 20° | 1724.3 | 1648.1 | 1368.2 | 935.9 | 783.5 | 795.1 | 814.9 | 841.4 | 858.0 | 866.3 | 866.3 |
| 22.5° | 1871.7 | 1777.3 | 1373.1 | 884.5 | 783.5 | 796.7 | 814.9 | 841.4 | 859.7 | 867.9 | 866.3 |
| 25° | 2072.1 | 1942.9 | 1374.8 | 848.1 | 785.1 | 788.4 | 805.0 | 828.2 | 854.7 | 863.0 | 866.3 |
| 27.5° | 2285.8 | 2125.1 | 1383.1 | 839.8 | 778.5 | 776.8 | 788.4 | 810.0 | 836.5 | 858.0 | 859.7 |
| 30° | 2550.8 | 2330.5 | 1386.4 | 848.1 | 780.2 | 758.6 | 766.9 | 788.4 | 816.6 | 838.1 | 844.8 |
| 32.5° | 2810.9 | 2521.0 | 1379.8 | 866.3 | 783.5 | 747.0 | 748.7 | 761.9 | 791.8 | 806.7 | 818.3 |
| 35° | 3085.9 | 2723.1 | 1368.2 | 891.1 | 785.1 | 742.1 | 727.2 | 733.8 | 753.7 | 755.3 | 760.3 |
| 37.5° | 3301.2 | 2873.8 | 1333.4 | 924.3 | 788.4 | 723.8 | 694.0 | 689.1 | 680.8 | 664.2 | 667.5 |
| 40° | 3478.4 | 2974.9 | 1275.4 | 940.8 | 780.2 | 702.3 | 652.6 | 629.4 | 598.0 | 573.1 | 578.1 |
| 42.5° | 3606.0 | 3042.8 | 1205.9 | 944.1 | 766.9 | 665.9 | 604.6 | 564.8 | 530.0 | 503.5 | 505.2 |
| 45° | 3662.3 | 3036.2 | 1131.3 | 919.3 | 735.4 | 621.1 | 559.9 | 521.8 | 483.7 | 455.5 | 452.2 |
| 47.5° | 3663.9 | 2971.6 | 1028.6 | 859.7 | 682.4 | 569.8 | 518.5 | 477.0 | 445.6 | 425.7 | 424.0 |
| 50° | 3677.2 | 2935.1 | 932.5 | 773.5 | 612.9 | 515.1 | 482.0 | 440.6 | 422.4 | 394.2 | 385.9 |
| 52.5° | 3760.0 | 2994.8 | 866.3 | 679.1 | 548.3 | 475.4 | 450.5 | 414.1 | 384.3 | 366.1 | 364.4 |
| 55° | 3894.2 | 3097.4 | 829.9 | 607.9 | 487.0 | 437.3 | 420.7 | 389.3 | 362.7 | 344.5 | 339.6 |
| 57.5° | 3910.7 | 3150.5 | 786.8 | 541.6 | 437.3 | 407.5 | 400.8 | 366.1 | 328.0 | 314.7 | 309.7 |
| 60° | *3678.8* | *3061.0* | *733.8* | *480.4* | *400.8* | *384.3* | *381.0* | *334.6* | *303.1* | *286.6* | *279.9* |
| 62.5° | 3362.5 | 2837.4 | 652.6 | 424.0 | 372.7 | 361.1 | 347.8 | 311.4 | 271.6 | 253.4 | 248.5 |
| 65° | 2748.0 | 2385.2 | 554.9 | 385.9 | 344.5 | 331.3 | 328.0 | 278.3 | 251.8 | 241.8 | 240.2 |
| 67.5° | 2082.1 | 1916.4 | 488.6 | 357.8 | 314.7 | 309.7 | 298.2 | 281.6 | 270.0 | 258.4 | 255.1 |
| 70° | 1472.5 | 1383.1 | 415.8 | 321.3 | 284.9 | 276.6 | 324.7 | 306.4 | 265.0 | 250.1 | 248.5 |
| 72.5° | 892.8 | 867.9 | 359.4 | 288.2 | 245.1 | 258.4 | 299.8 | 276.6 | 238.5 | 220.3 | 213.7 |
| 75° | 563.2 | 515.1 | 301.5 | 245.1 | 195.5 | 210.4 | 261.7 | 246.8 | 205.4 | 187.2 | 182.2 |
| 77.5° | 306.4 | 284.9 | 226.9 | 200.4 | 154.0 | 170.6 | 228.6 | 203.7 | 164.0 | 178.9 | 159.0 |
| 80° | 134.2 | 149.1 | 150.7 | 115.9 | 102.7 | 125.9 | 164.0 | 159.0 | 125.9 | 127.5 | 106.0 |
| 82.5° | 64.6 | 84.5 | 97.7 | 79.5 | 58.0 | 74.5 | 109.3 | 91.1 | 84.5 | 79.5 | 76.2 |
| 85° | 19.9 | 31.5 | 43.1 | 38.1 | 26.5 | 31.5 | 51.3 | 49.7 | 59.6 | 51.3 | 48.0 |
| 87.5° | 6.6 | 6.6 | 5.0 | 5.0 | 5.0 | 6.6 | 8.3 | 5.0 | 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° | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 |
| 2.5° | 1144.6 | 1146.2 | 1146.2 | 1147.9 | 1147.9 | 1152.8 | 1159.5 | 1166.1 | 1161.1 | 1167.8 | 1169.4 |
| 5° | 1065.1 | 1073.3 | 1080.0 | 1104.8 | 1124.7 | 1141.3 | 1159.5 | 1176.0 | 1181.0 | 1184.3 | 1192.6 |
| 7.5° | 877.9 | 901.1 | 944.1 | 1000.5 | 1063.4 | 1124.7 | 1166.1 | 1209.2 | 1215.8 | 1224.1 | 1235.7 |
| 10° | 747.0 | 757.0 | 786.8 | 844.8 | 957.4 | 1078.3 | 1179.3 | 1247.3 | 1275.4 | 1292.0 | 1303.6 |
| 12.5° | 768.6 | 761.9 | 757.0 | 765.3 | 838.1 | 993.8 | 1171.1 | 1301.9 | 1354.9 | 1373.1 | 1388.1 |
| 15° | 819.9 | 813.3 | 795.1 | 771.9 | 780.2 | 904.4 | 1142.9 | 1353.3 | 1437.7 | 1467.6 | 1499.0 |
| 17.5° | 849.7 | 843.1 | 828.2 | 803.3 | 781.8 | 829.9 | 1089.9 | 1399.6 | 1568.6 | 1605.0 | 1649.8 |
| 20° | 866.3 | 859.7 | 844.8 | 819.9 | 795.1 | 801.7 | 1022.0 | 1457.6 | 1717.7 | 1775.6 | 1841.9 |
| 22.5° | 869.6 | 861.3 | 844.8 | 819.9 | 805.0 | 800.0 | 957.4 | 1492.4 | 1878.3 | 1967.8 | 2044.0 |
| 25° | 867.9 | 853.0 | 831.5 | 813.3 | 805.0 | 803.3 | 912.7 | 1512.3 | 2052.3 | 2194.7 | 2280.8 |
| 27.5° | 856.4 | 838.1 | 816.6 | 803.3 | 800.0 | 810.0 | 892.8 | 1535.5 | 2256.0 | 2438.2 | 2575.7 |
| 30° | 843.1 | 816.6 | 790.1 | 785.1 | 793.4 | 824.9 | 909.4 | 1543.8 | 2469.7 | 2703.2 | 2844.0 |
| 32.5° | 808.3 | 788.4 | 761.9 | 760.3 | 780.2 | 836.5 | 947.5 | 1532.2 | 2658.5 | 2968.3 | 3145.5 |
| 35° | 758.6 | 747.0 | 732.1 | 737.1 | 768.6 | 846.4 | 974.0 | 1495.7 | 2830.8 | 3215.1 | 3422.1 |
| 37.5° | 670.8 | 679.1 | 687.4 | 699.0 | 738.7 | 844.8 | 985.6 | 1437.7 | 2973.2 | 3412.2 | 3677.2 |
| 40° | 573.1 | 601.3 | 627.8 | 657.6 | 710.6 | 831.5 | 988.9 | 1366.5 | 3056.0 | 3561.2 | 3904.1 |
| 42.5° | 511.8 | 538.3 | 571.5 | 614.5 | 672.5 | 801.7 | 985.6 | 1287.0 | 3082.5 | 3663.9 | 4048.2 |
| 45° | 455.5 | 487.0 | 528.4 | 573.1 | 639.4 | 758.6 | 955.7 | 1200.9 | 3095.8 | 3712.0 | 4109.5 |
| 47.5° | 425.7 | 443.9 | 482.0 | 526.7 | 596.3 | 705.6 | 897.8 | 1137.9 | 3075.9 | 3721.9 | 4184.0 |
| 50° | 390.9 | 415.8 | 440.6 | 483.7 | 551.6 | 639.4 | 828.2 | 1101.5 | 3109.0 | 3819.6 | 4301.6 |
| 52.5° | 364.4 | 377.7 | 404.2 | 443.9 | 493.6 | 578.1 | 761.9 | 1071.7 | 3200.1 | 3919.0 | 4424.2 |
| 55° | 344.5 | 359.4 | 376.0 | 409.1 | 447.2 | 516.8 | 694.0 | 1027.0 | 3306.2 | 4025.0 | 4546.8 |
| 57.5° | 313.1 | 323.0 | 346.2 | 381.0 | 405.8 | 457.2 | 614.5 | 974.0 | 3297.9 | 3942.2 | 4334.8 |
| 60° | *284.9* | *294.8* | *319.7* | *354.5* | *369.4* | *404.2* | *536.7* | *906.0* | *3138.9* | *3672.2* | *3943.9* |
| 62.5° | 253.4 | 265.0 | 294.8 | 319.7 | 332.9 | 359.4 | 455.5 | 781.8 | 2807.6 | 3266.4 | 3486.7 |
| 65° | 240.2 | 246.8 | 266.7 | 296.5 | 294.8 | 319.7 | 384.3 | 614.5 | 2259.3 | 2496.2 | 2696.6 |
| 67.5° | 255.1 | 265.0 | 261.7 | 270.0 | 265.0 | 278.3 | 344.5 | 493.6 | 1775.6 | 1880.0 | 1995.9 |
| 70° | 251.8 | 275.0 | 286.6 | 270.0 | 231.9 | 246.8 | 298.2 | 394.2 | 1270.5 | 1260.5 | 1255.5 |
| 72.5° | 220.3 | 243.5 | 276.6 | 293.2 | 226.9 | 205.4 | 258.4 | 341.2 | 814.9 | 811.6 | 733.8 |
| 75° | 187.2 | 203.7 | 243.5 | 265.0 | 195.5 | 165.6 | 222.0 | 289.9 | 487.0 | 493.6 | 440.6 |
| 77.5° | 172.3 | 164.0 | 203.7 | 233.6 | 159.0 | 127.5 | 178.9 | 218.6 | 268.3 | 271.6 | 251.8 |
| 80° | 124.2 | 119.3 | 152.4 | 170.6 | 120.9 | 91.1 | 101.0 | 135.8 | 144.1 | 129.2 | 134.2 |
| 82.5° | 79.5 | 81.2 | 91.1 | 109.3 | 74.5 | 49.7 | 69.6 | 91.1 | 77.9 | 62.9 | 74.5 |
| 85° | 51.3 | 58.0 | 48.0 | 56.3 | 23.2 | 23.2 | 29.8 | 39.8 | 26.5 | 18.2 | 19.9 |
| 87.5° | 0.0 | 0.0 | 3.3 | 6.6 | 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: P1501642
CATALOG NUMBER: GSS-SB2B-930-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1169.4 | 1169.4 | *1169.4* | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 | 1169.4 |
| 2.5° | 1174.4 | 1172.7 | *1172.7* | 1176.0 | 1184.3 | 1187.6 | 1192.6 | 1190.9 | 1195.9 | 1192.6 |
| 5° | 1197.6 | 1199.2 | *1204.2* | 1205.9 | 1210.8 | 1217.4 | 1219.1 | 1217.4 | 1220.8 | 1220.8 |
| 7.5° | 1243.9 | 1250.6 | *1247.3* | 1255.5 | 1248.9 | 1240.6 | 1227.4 | 1217.4 | 1209.2 | 1212.5 |
| 10° | 1321.8 | 1318.5 | *1316.8* | 1301.9 | 1272.1 | 1229.0 | 1194.3 | 1156.2 | 1149.5 | 1142.9 |
| 12.5° | 1407.9 | 1404.6 | *1404.6* | 1353.3 | 1268.8 | 1179.3 | 1099.8 | 1040.2 | 1020.3 | 1018.7 |
| 15° | 1528.8 | 1507.3 | *1487.4* | 1379.8 | 1210.8 | 1058.4 | 965.7 | 919.3 | 907.7 | 907.7 |
| 17.5° | 1679.6 | 1623.3 | *1590.1* | 1359.9 | 1116.4 | 978.9 | 924.3 | 912.7 | 909.4 | 917.6 |
| 20° | 1866.8 | 1724.3 | *1676.3* | 1315.2 | 1081.6 | 988.9 | 962.4 | 964.0 | 965.7 | 977.3 |
| 22.5° | 2072.1 | 1817.1 | *1737.6* | 1315.2 | 1116.4 | 1051.8 | 1038.6 | 1056.8 | 1061.7 | 1071.7 |
| 25° | 2300.7 | 1899.9 | *1792.2* | 1384.7 | 1219.1 | 1171.1 | 1154.5 | 1172.7 | 1186.0 | 1202.5 |
| 27.5° | 2557.5 | 1986.0 | *1886.6* | 1510.6 | 1351.6 | 1321.8 | 1303.6 | 1311.9 | 1330.1 | 1350.0 |
| 30° | 2787.7 | 2130.1 | *2030.7* | 1702.8 | 1532.2 | 1495.7 | 1464.2 | 1477.5 | 1497.4 | 1510.6 |
| 32.5° | 2991.4 | 2305.7 | *2221.2* | 1904.8 | 1739.2 | 1676.3 | 1641.5 | 1638.2 | 1677.9 | 1668.0 |
| 35° | 3178.6 | 2512.7 | *2431.6* | 2135.1 | 1949.6 | 1871.7 | 1825.3 | 1885.0 | 1858.5 | 1868.4 |
| 37.5° | 3326.0 | 2728.1 | *2663.5* | 2355.4 | 2168.2 | 2062.2 | 2034.0 | 2106.9 | 2148.3 | 2159.9 |
| 40° | 3446.9 | 2915.2 | *2847.3* | 2574.0 | 2368.6 | 2290.8 | 2335.5 | 2456.4 | 2451.5 | 2446.5 |
| 42.5° | 3539.7 | 3075.9 | *3001.4* | 2739.7 | 2560.8 | 2575.7 | 2610.5 | 2691.6 | 2711.5 | 2683.4 |
| 45° | 3581.1 | 3177.0 | *3117.3* | 2870.5 | 2779.4 | 2865.6 | 2880.5 | 2915.2 | 2902.0 | 2883.8 |
| 47.5° | 3629.2 | 3266.4 | *3203.5* | 2989.8 | 3016.3 | 3100.8 | 3070.9 | 3042.8 | 2994.8 | 2966.6 |
| 50° | 3710.3 | 3372.4 | *3319.4* | 3163.7 | 3259.8 | 3231.6 | 3115.7 | 3052.7 | 2955.0 | 2921.9 |
| 52.5° | 3864.4 | 3572.8 | *3533.1* | 3438.7 | 3374.1 | 3211.7 | 3070.9 | 2958.3 | 2849.0 | 2804.3 |
| 55° | 4001.8 | 3844.5 | *3821.3* | 3695.4 | 3339.3 | 3107.4 | 2918.6 | 2744.6 | 2557.5 | 2519.4 |
| 57.5° | 4081.3 | 4295.0 | *4321.5* | 3804.7 | 3180.3 | 2870.5 | 2592.3 | 2314.0 | 2136.7 | 2105.3 |
| 60° | *3844.5* | *4782.0* | *4795.2* | *3783.2* | *2893.7* | *2443.2* | *2019.1* | *1822.0* | *1631.5* | *1576.9* |
| 62.5° | 3518.2 | 4681.0 | *4669.4* | 3654.0 | 2304.0 | 1782.3 | 1533.8 | 1441.1 | 1293.6 | 1248.9 |
| 65° | 3024.6 | 3899.1 | *3912.4* | 3157.1 | 1532.2 | 1288.7 | 1288.7 | 1171.1 | 1007.1 | 975.6 |
| 67.5° | 2464.7 | 3006.3 | *2976.5* | 2047.3 | 940.8 | 1031.9 | 1081.6 | 912.7 | 682.4 | 644.3 |
| 70° | 1601.7 | 2295.8 | *2254.3* | 1181.0 | 591.3 | 859.7 | 851.4 | 685.7 | 488.6 | 462.1 |
| 72.5° | 689.1 | 1326.8 | *1411.2* | 602.9 | 445.6 | 692.4 | 679.1 | 480.4 | 326.3 | 314.7 |
| 75° | 415.8 | 667.5 | *727.2* | 384.3 | 324.7 | 521.8 | 470.4 | 304.8 | 222.0 | 213.7 |
| 77.5° | 263.4 | 366.1 | *362.7* | 288.2 | 243.5 | 352.8 | 316.4 | 210.4 | 150.7 | 144.1 |
| 80° | 152.4 | 180.5 | *187.2* | 180.5 | 164.0 | 251.8 | 202.1 | 152.4 | 117.6 | 109.3 |
| 82.5° | 97.7 | 112.6 | *114.3* | 87.8 | 91.1 | 162.3 | 109.3 | 89.4 | 67.9 | 61.3 |
| 85° | 43.1 | 48.0 | *46.4* | 29.8 | 29.8 | 66.3 | 38.1 | 36.4 | 26.5 | 26.5 |
| 87.5° | 1.7 | 3.3 | *1.7* | 1.7 | 1.7 | 6.6 | 3.3 | 5.0 | 5.0 | 5.0 |
| 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-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-2

Luminaire Tested: GFLD-SA1-A-930-U-WR-X-BK

Test Date: 06/16/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

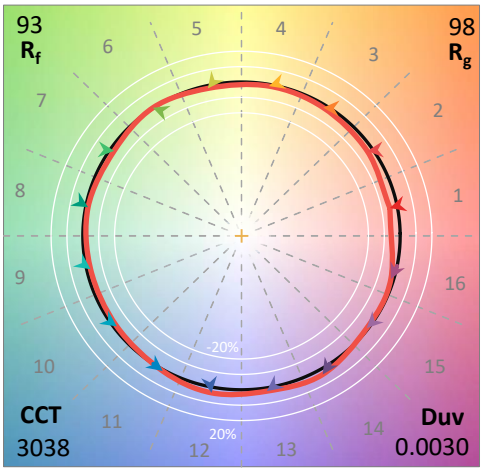
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-2 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/16/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-930-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3038 | CRI (Ra): | 92.3 | | |
| CIE u': | 0.2481 | R1: | 92.0 | R9: | 58.9 |
| CIE v': | 0.5247 | R2: | 94.8 | R10: | 87.0 |
| Duv: | 0.0030 | R3: | 96.7 | R11: | 93.2 |
| CIE x: | 0.4384 | R4: | 93.0 | R12: | 81.1 |
| CIE y: | 0.4121 | R5: | 91.4 | R13: | 92.5 |
| CIE z: | 0.1495 | R6: | 93.7 | R14: | 97.4 |
| Peak Wavelength (nm): | 624 | R7: | 93.9 | | |
| Dominant Wavelength (nm): | 581 | R8: | 82.9 | | |
| Purity: | 55.6 | | | | |

| | |
|---|---|
| Rf: | 92.8 |
| Rg: | 98 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 82M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.3/43% |
| Sphere Temperature (°C): | 24.2 |

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

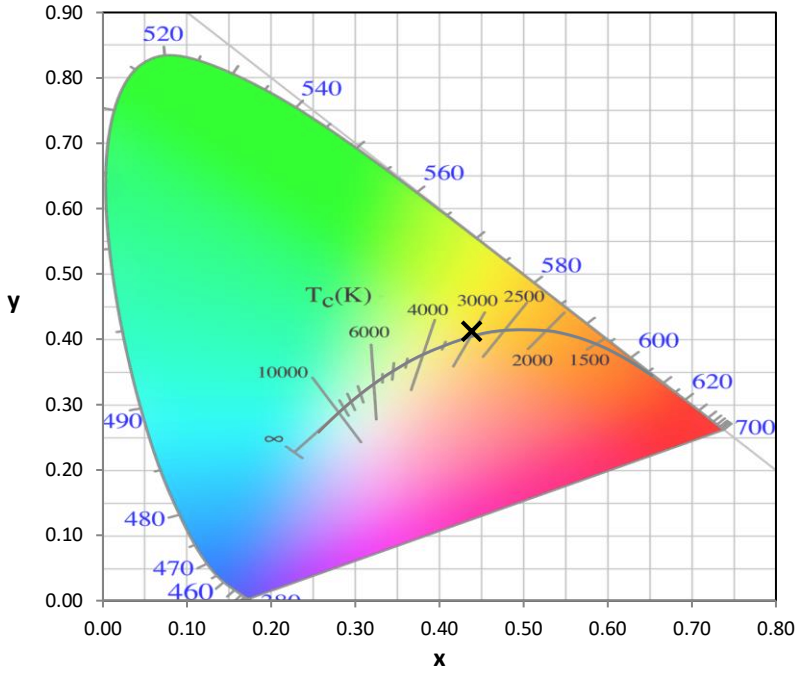
REPORT NUMBER: SP1-2106-271-2

| 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 |

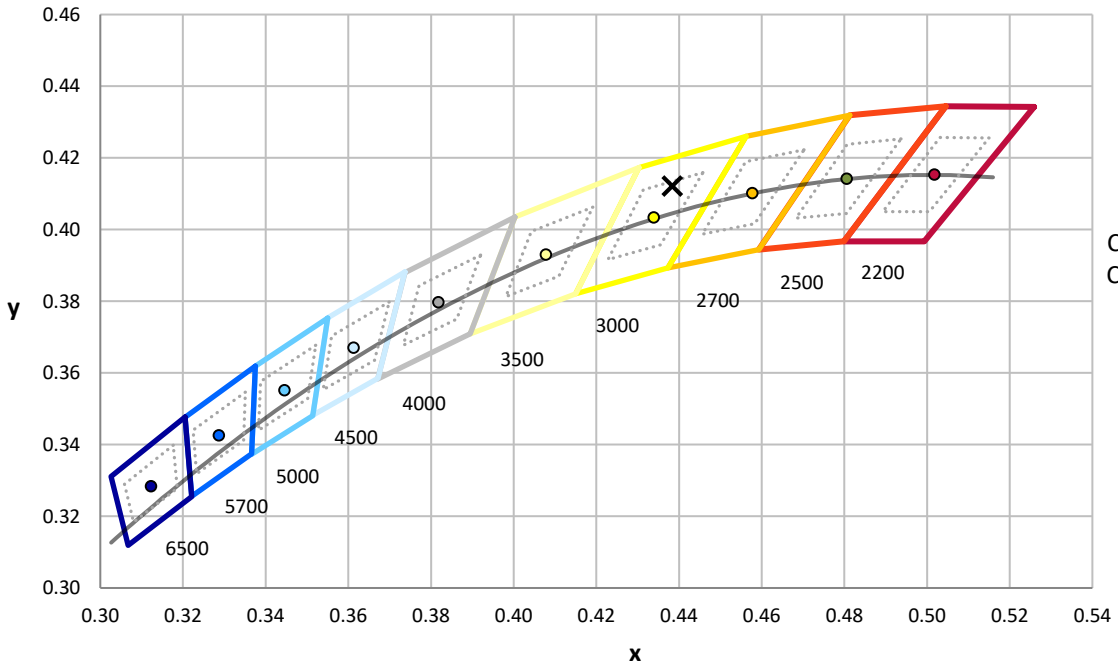
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-2

## CIE 1931 Chromaticity Diagram




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



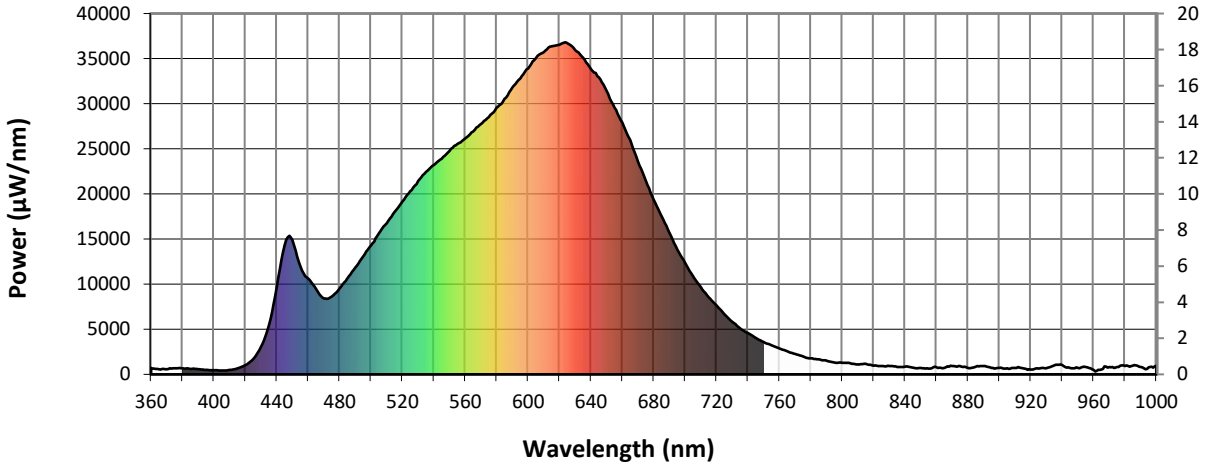

CCT = 3038K
CIE x = 0.4384
CIE y = 0.4121
Duv = 0.0030

Point lies inside the ANSI 3000K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-2

## Photopic Flux vs. Wavelength



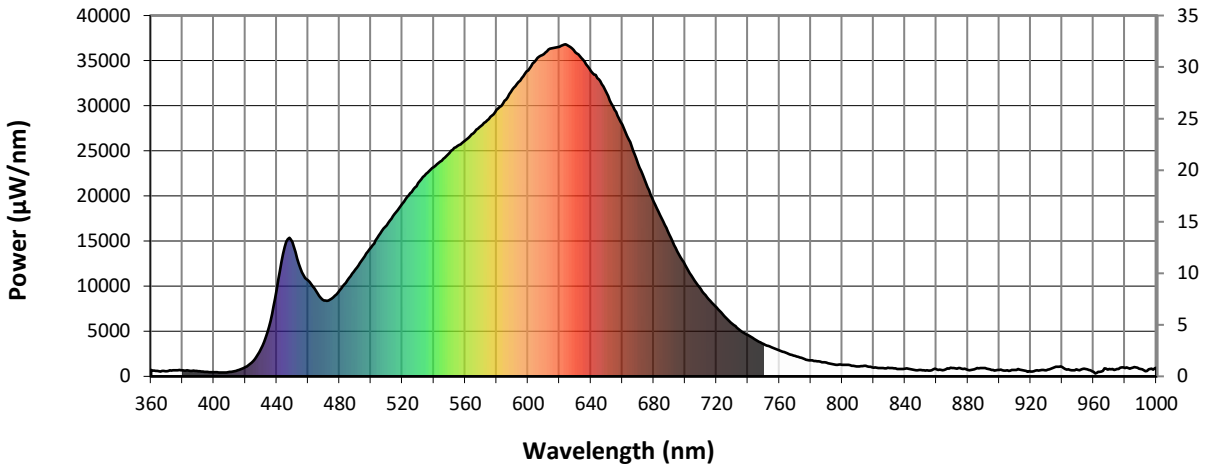

######

| 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 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-2

## Scotopic Flux vs. Wavelength



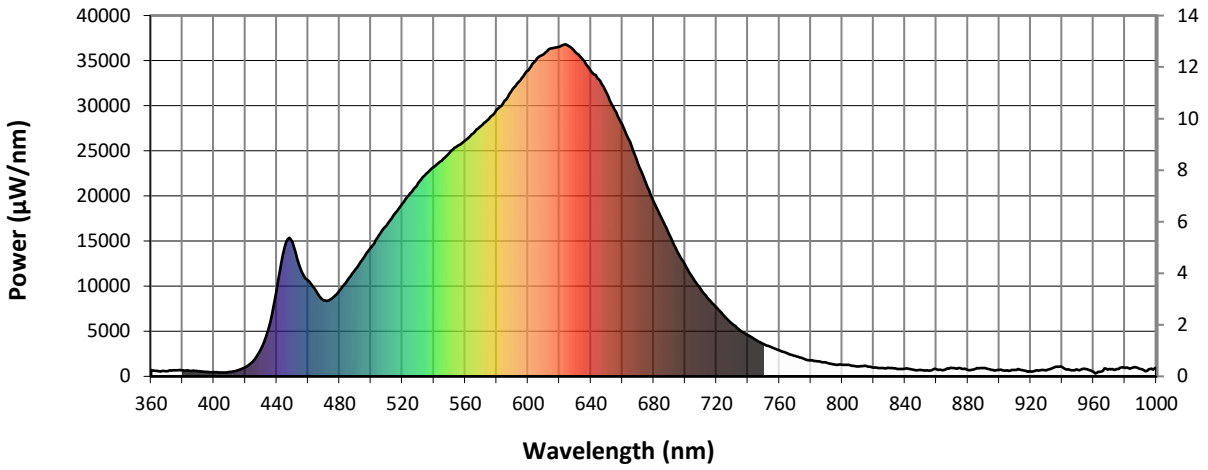

**Scotopic Lumens: 2650.8** **S/P: 1.41**

| 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 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1008.8** **S/P: 0.54**

| 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 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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Peachtree City, GA 30269

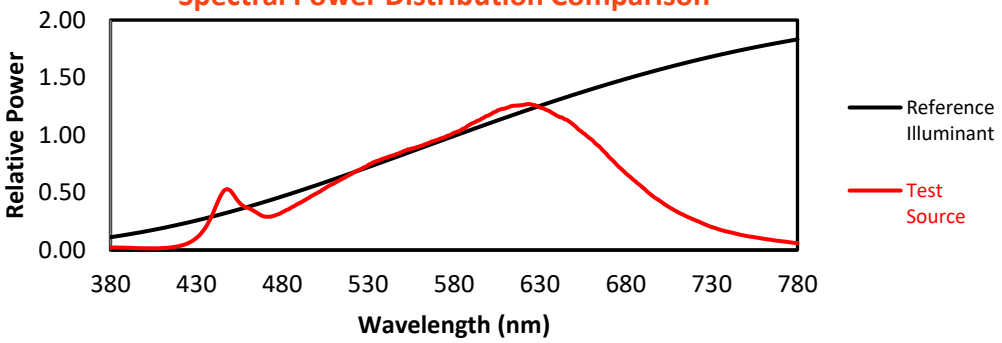
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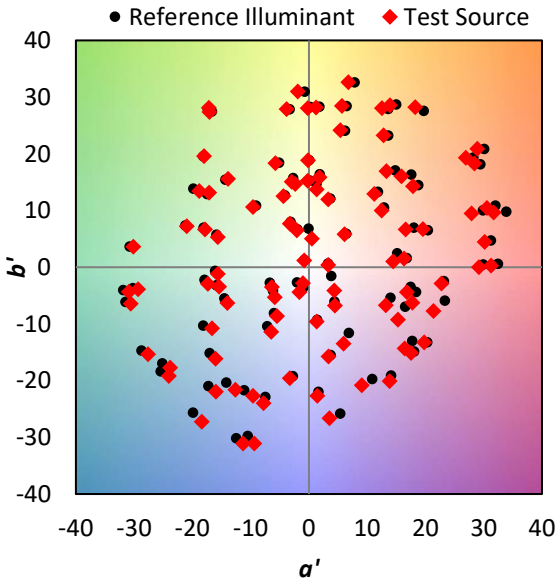
## Summary

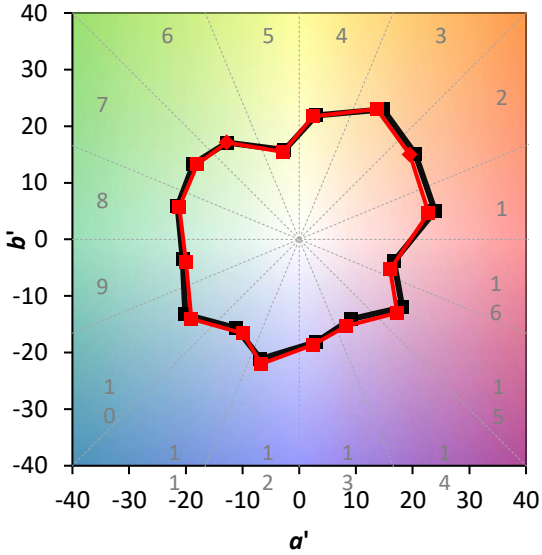
$R_f$ = 92.8
$R_g$ = 98
CIE $R_a$ = 92.3
$R_9$ = 58.9

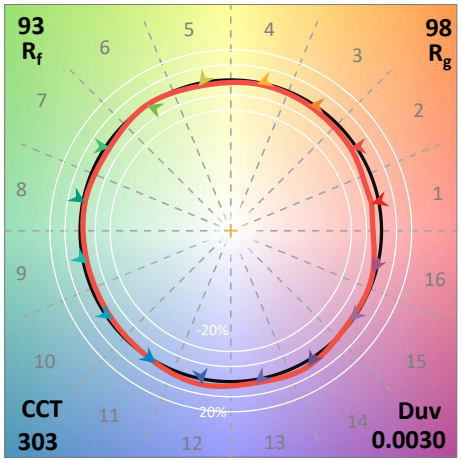
## Spectral Power Distribution Comparison

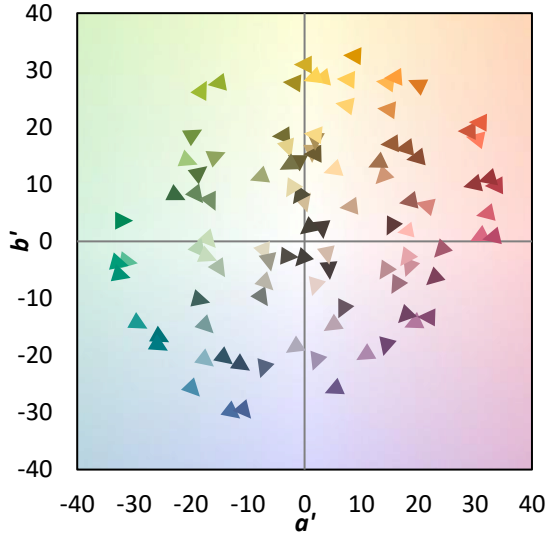



## Color Vector Graphics



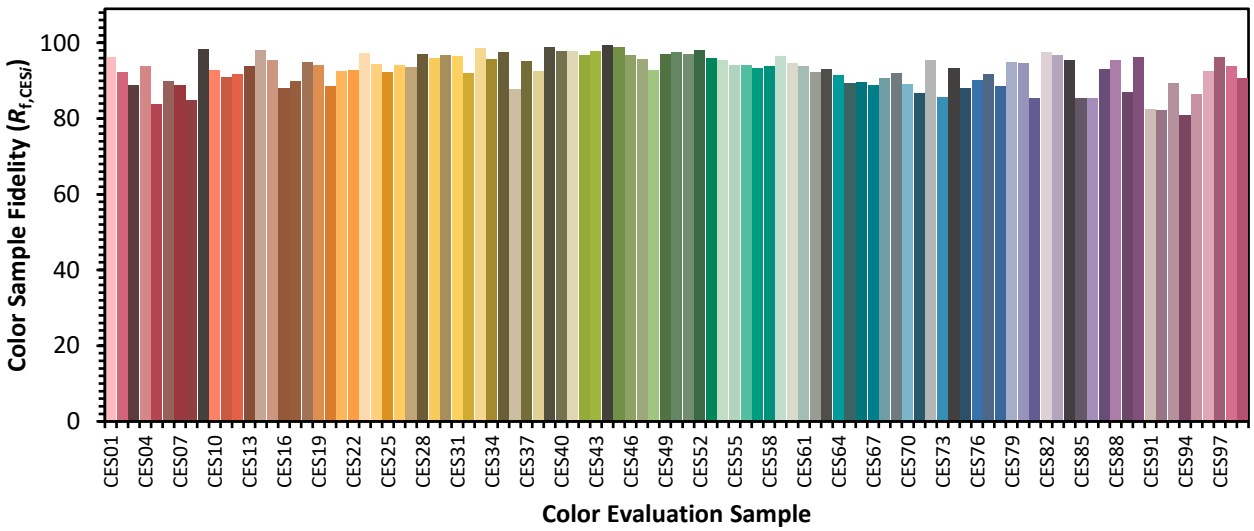
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 90 |
| CES02 = 63 | CES27 = 94 | CES52 = 98 | CES77 = 92 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 88 |
| CES04 = 70 | CES29 = 96 | CES54 = 95 | CES79 = 95 |
| CES05 = 50 | CES30 = 97 | CES55 = 94 | CES80 = 95 |
| CES06 = 51 | CES31 = 97 | CES56 = 94 | CES81 = 85 |
| CES07 = 43 | CES32 = 92 | CES57 = 93 | CES82 = 98 |
| CES08 = 42 | CES33 = 99 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 96 | CES59 = 96 | CES84 = 95 |
| CES10 = 76 | CES35 = 98 | CES60 = 95 | CES85 = 86 |
| CES11 = 58 | CES36 = 88 | CES61 = 94 | CES86 = 85 |
| CES12 = 65 | CES37 = 95 | CES62 = 92 | CES87 = 93 |
| CES13 = 44 | CES38 = 93 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 91 | CES89 = 87 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 90 | CES91 = 82 |
| CES17 = 50 | CES42 = 97 | CES67 = 89 | CES92 = 82 |
| CES18 = 57 | CES43 = 98 | CES68 = 91 | CES93 = 89 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 81 |
| CES20 = 67 | CES45 = 99 | CES70 = 89 | CES95 = 86 |
| CES21 = 86 | CES46 = 97 | CES71 = 87 | CES96 = 93 |
| CES22 = 79 | CES47 = 96 | CES72 = 95 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 86 | CES98 = 94 |
| CES24 = 90 | CES49 = 97 | CES74 = 93 | CES99 = 91 |
| CES25 = 72 | CES50 = 98 | CES75 = 88 | |

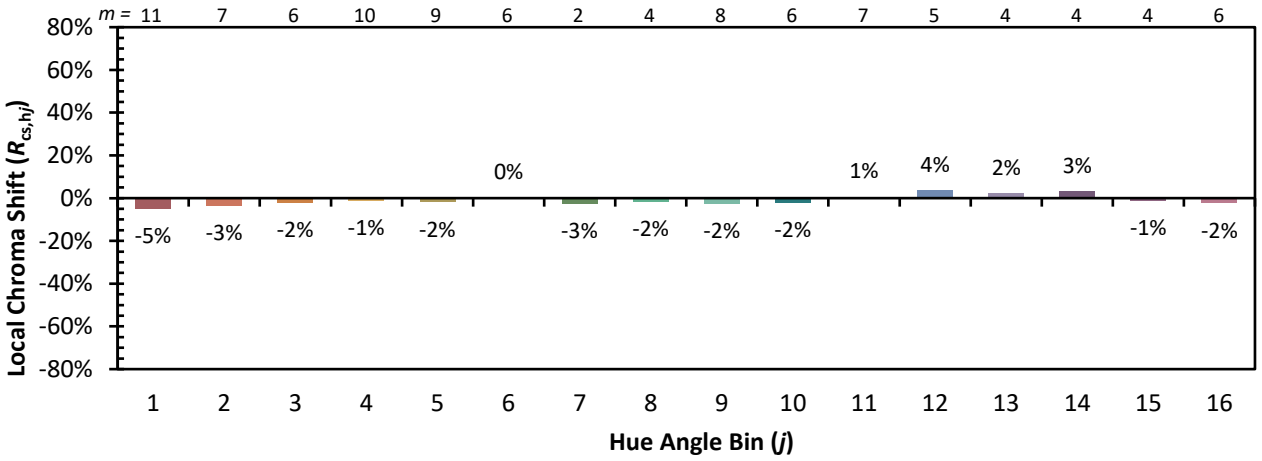


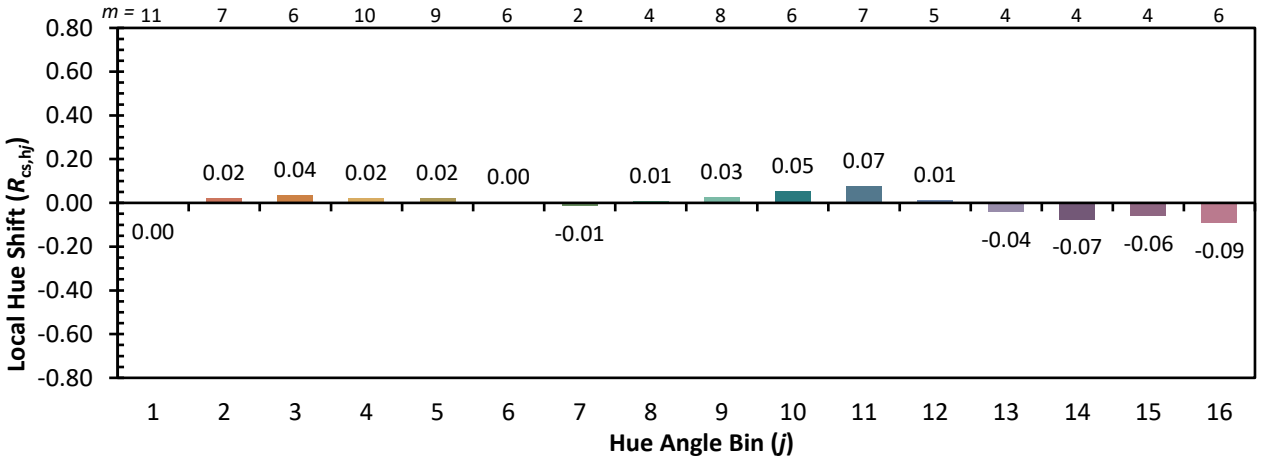
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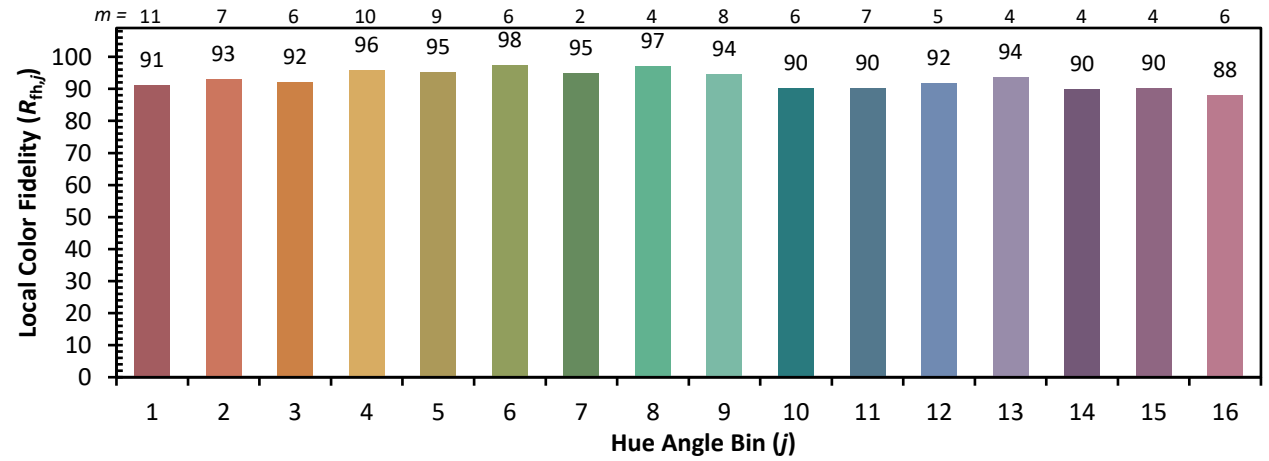
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### Color Rendition by Hue-Angle Bin



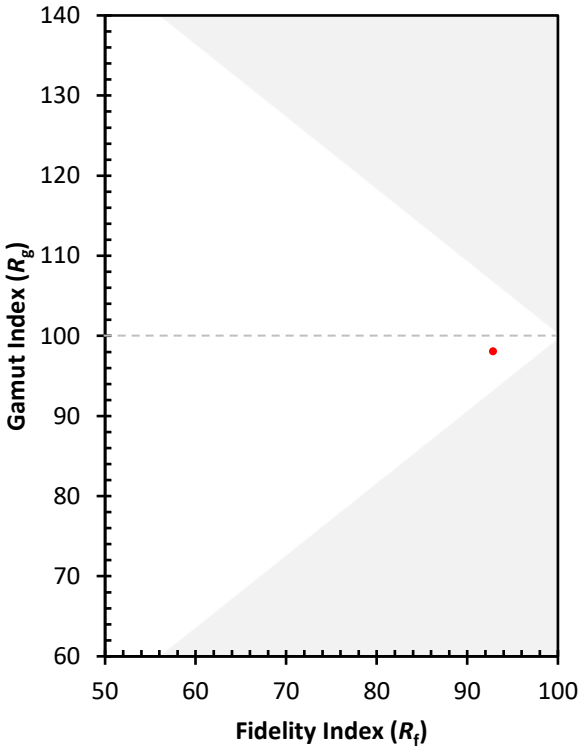



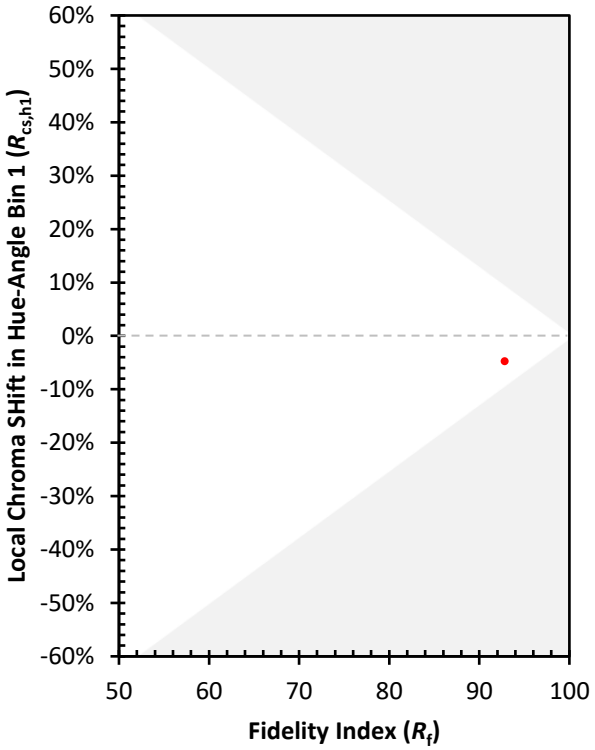
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### Measure Comparisons




(END OF REPORT)