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: P1198721

Luminaire Tested: GPC-SB1D-727-U-SLR

Issue Date: 10/30/2025

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1198721 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/13/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB1D-727-U-SLR |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9455 lumens |
| Efficiency: | N/A |
| Efficacy: | 118.8 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 79.6 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.638 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.997 |
| Total Harmonic Distortion (THDi): | 6.673 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

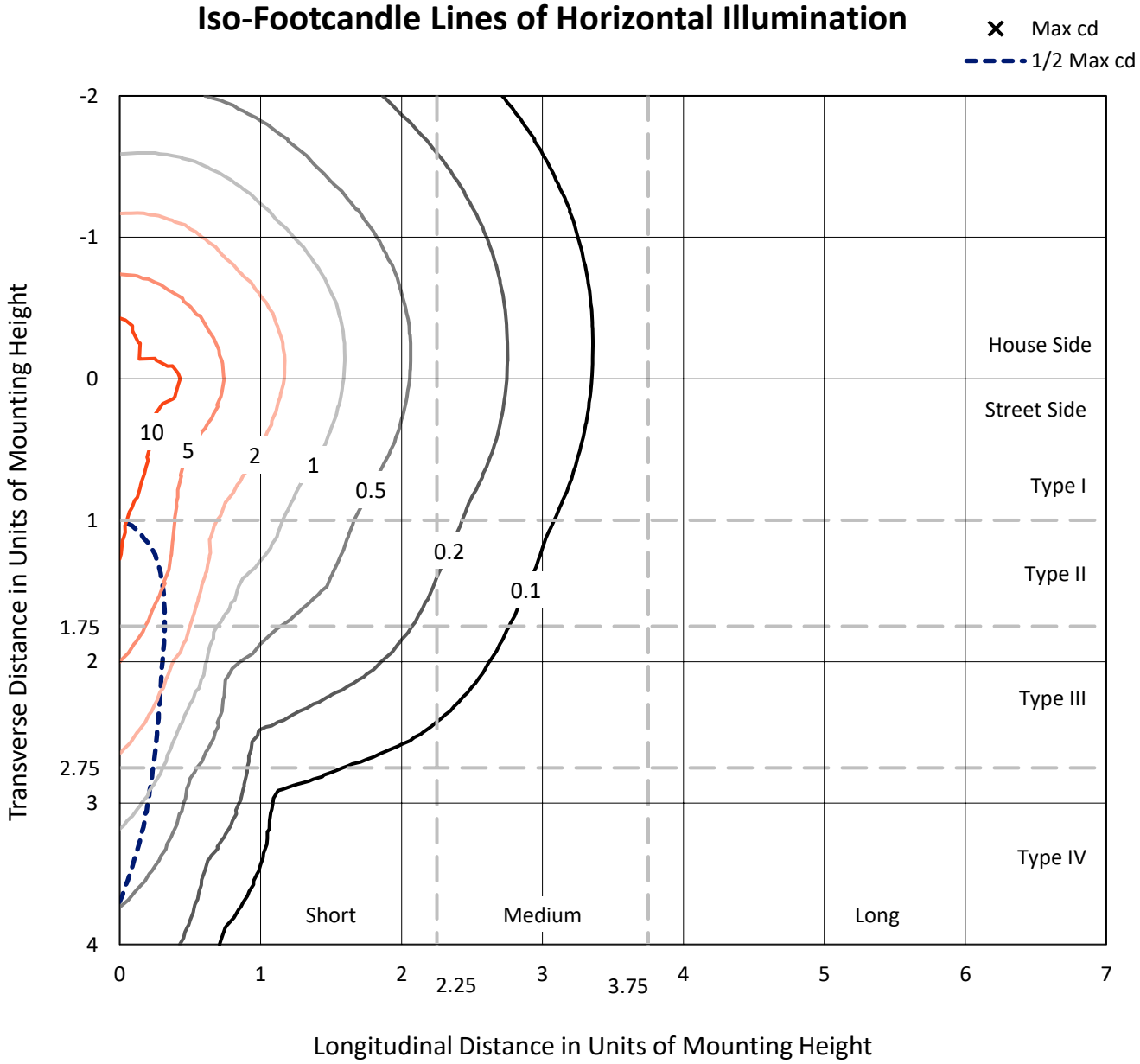


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## Iso-Footcandle Lines of Horizontal Illumination



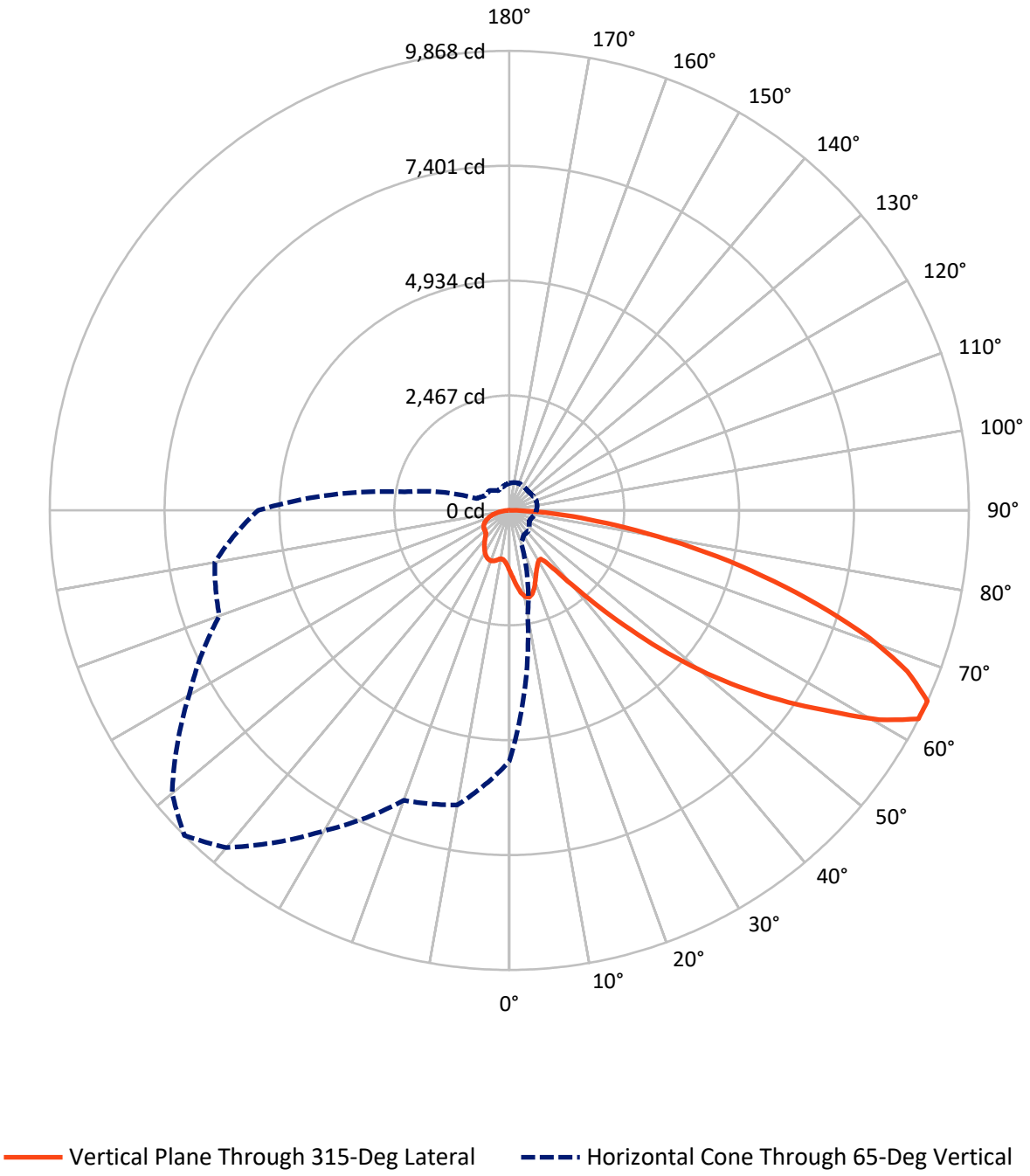

Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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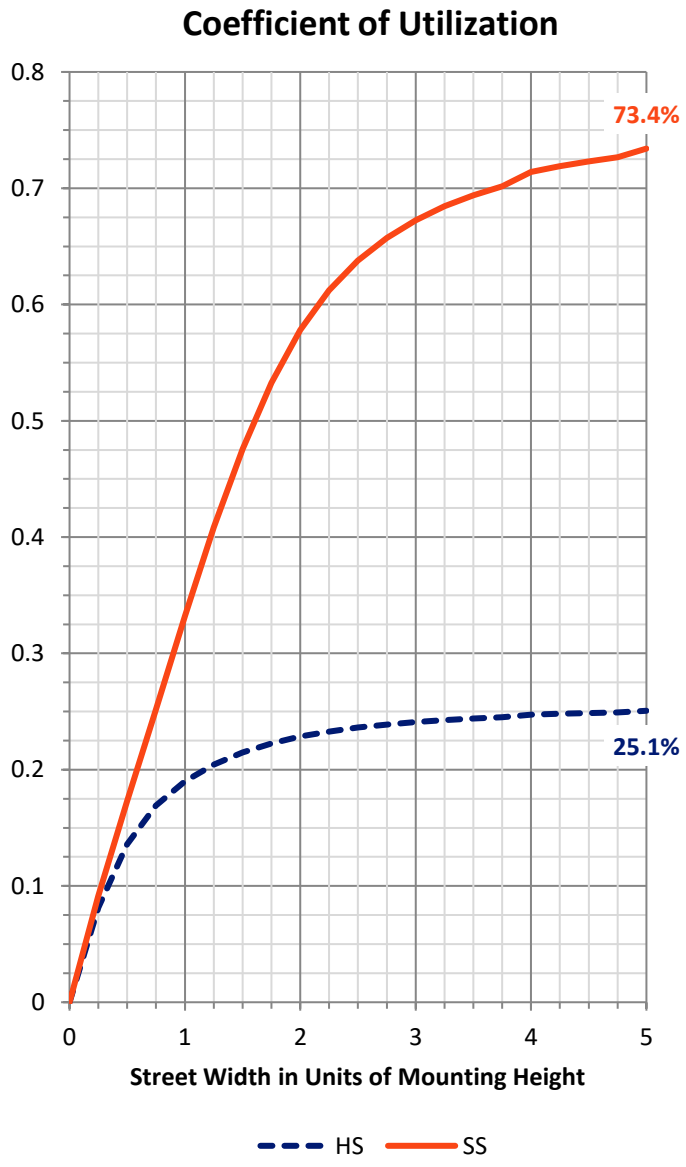
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2403.0 | 0.0 | 2403.0 |
| | % Fixture | 25.4 | 0.0 | 25.4 |
| **Street Side** | Lumens | 7052.0 | 0.0 | 7052.0 |
| | % Fixture | 74.6 | 0.0 | 74.6 |
| **Total** | Lumens | 9455.0 | 0.0 | 9455.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 129.0 | 1.4 |
| 10°-20° | 404.9 | 4.3 |
| 20°-30° | 625.4 | 6.6 |
| 30°-40° | 792.5 | 8.4 |
| 40°-50° | 1195.3 | 12.6 |
| 50°-60° | 1931.2 | 20.4 |
| 60°-70° | 2407.6 | 25.5 |
| 70°-80° | 1578.8 | 16.7 |
| 80°-90° | 390.3 | 4.1 |
| 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° | 9455.0 | 100.0 |
| 0°-180° | 9455.0 | 100.0 |



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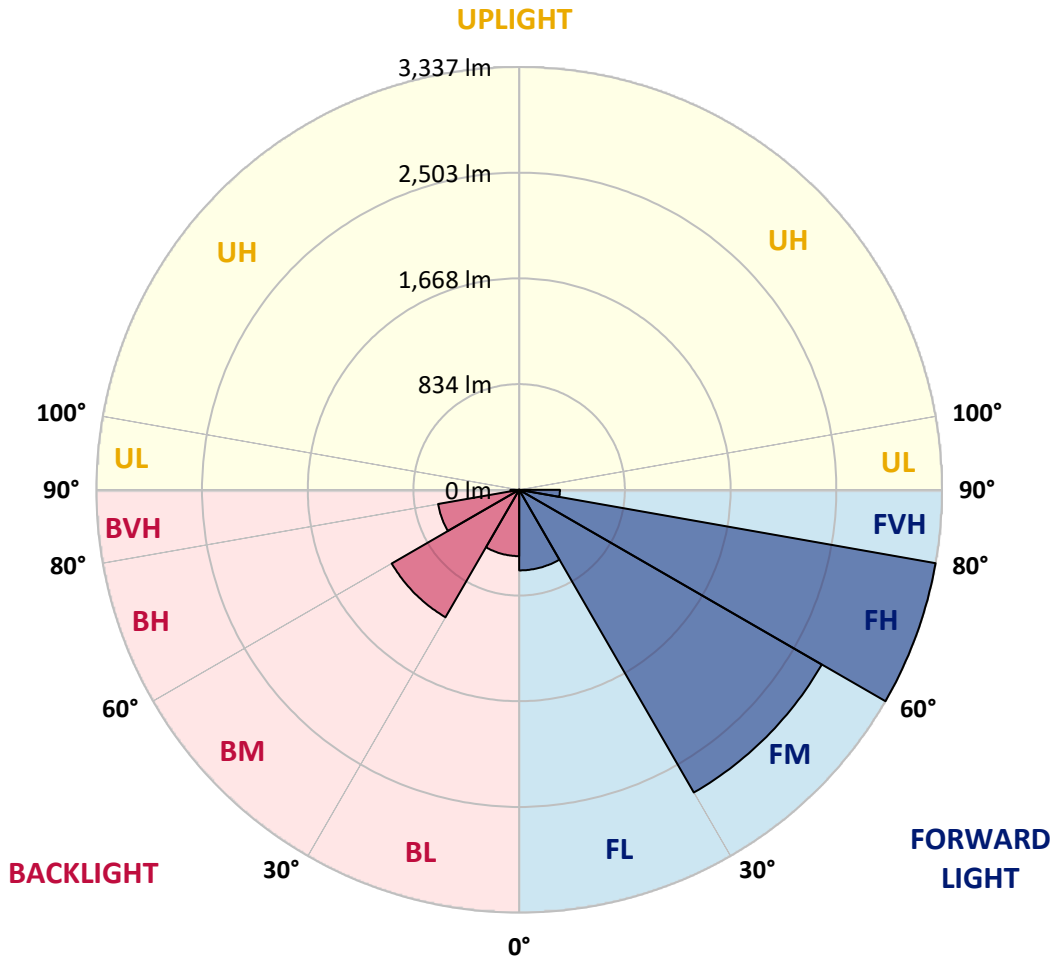
Scaled Data Report

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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°) | 636.0 | 6.7 | | | |
| FM | (30°-60°) | 2757.8 | 29.2 | | | |
| FH | (60°-80°) | 3336.7 | 35.3 | | | G2/5000 |
| FVH | (80°-90°) | 321.5 | 3.4 | | | G3/500 |
| BL | (0°-30°) | 523.3 | 5.5 | B2/1000 | | |
| BM | (30°-60°) | 1161.3 | 12.3 | B2/2500 | | |
| BH | (60°-80°) | 649.7 | 6.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 68.8 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1398.2 | 1387.5 | 1376.7 | 1365.3 | 1353.9 | 1342.5 | 1331.0 | 1320.0 | 1309.0 | 1298.4 | 1286.6 |
| 5° | 1503.4 | 1479.7 | 1456.1 | 1432.4 | 1408.8 | 1385.0 | 1361.3 | 1339.1 | 1316.9 | 1295.9 | 1275.2 |
| 7.5° | 1609.2 | 1570.1 | 1531.0 | 1494.9 | 1458.8 | 1423.6 | 1388.4 | 1357.5 | 1326.5 | 1297.9 | 1271.1 |
| 10° | 1690.3 | 1640.8 | 1591.4 | 1543.7 | 1496.0 | 1453.3 | 1410.5 | 1373.9 | 1337.2 | 1301.9 | 1273.1 |
| 12.5° | 1739.9 | 1685.6 | 1631.3 | 1577.2 | 1523.2 | 1472.8 | 1422.4 | 1380.9 | 1339.5 | 1302.4 | 1275.6 |
| 15° | 1770.1 | 1713.5 | 1656.9 | 1598.2 | 1539.5 | 1481.5 | 1423.5 | 1375.5 | 1327.5 | 1286.4 | 1265.0 |
| 17.5° | 1787.1 | 1729.7 | 1672.2 | 1608.2 | 1544.2 | 1476.9 | 1409.5 | 1351.8 | 1294.1 | 1245.8 | 1232.5 |
| 20° | 1805.8 | 1746.1 | 1686.4 | 1616.0 | 1545.7 | 1464.1 | 1382.5 | 1310.9 | 1239.4 | 1183.2 | 1179.7 |
| 22.5° | 1827.5 | 1766.5 | 1705.5 | 1626.6 | 1547.7 | 1448.4 | 1349.1 | 1263.0 | 1176.8 | 1112.8 | 1119.6 |
| 25° | 1855.4 | 1795.7 | 1735.9 | 1645.8 | 1555.6 | 1433.0 | 1310.4 | 1209.4 | 1108.6 | 1043.0 | 1061.4 |
| 27.5° | 1893.3 | 1836.4 | 1779.3 | 1675.7 | 1572.0 | 1422.6 | 1273.2 | 1160.5 | 1047.8 | 988.1 | 1010.5 |
| 30° | 1944.5 | 1889.4 | 1834.4 | 1714.5 | 1594.6 | 1417.8 | 1240.9 | 1119.6 | 998.3 | 948.2 | 965.8 |
| 32.5° | 2004.8 | 1950.3 | 1895.8 | 1754.9 | 1614.1 | 1411.8 | 1209.4 | 1084.3 | 959.1 | 918.7 | 926.6 |
| 35° | 2078.2 | 2026.0 | 1973.8 | 1801.0 | 1628.3 | 1400.5 | 1172.8 | 1049.6 | 926.5 | 892.8 | 889.5 |
| 37.5° | 2201.7 | 2135.1 | 2068.6 | 1852.7 | 1636.8 | 1381.2 | 1125.6 | 1008.8 | 892.0 | 862.6 | 850.7 |
| 40° | 2388.3 | 2291.3 | 2194.3 | 1918.2 | 1642.1 | 1354.6 | 1067.2 | 960.1 | 853.1 | 826.4 | 808.2 |
| 42.5° | 2635.7 | 2495.7 | 2355.7 | 2004.0 | 1652.3 | 1327.2 | 1002.2 | 906.4 | 810.6 | 786.0 | 763.1 |
| 45° | 2941.3 | 2752.5 | 2563.6 | 2116.8 | 1670.1 | 1301.7 | 933.3 | 849.3 | 765.3 | 740.4 | 718.2 |
| 47.5° | 3323.4 | 3057.7 | 2791.9 | 2237.1 | 1682.3 | 1280.6 | 879.0 | 804.2 | 729.4 | 697.2 | 678.1 |
| 50° | 3824.3 | 3423.7 | 3023.0 | 2348.6 | 1674.3 | 1257.7 | 841.1 | 774.2 | 707.3 | 665.0 | 642.8 |
| 52.5° | 4399.3 | 3808.1 | 3216.9 | 2421.1 | 1625.2 | 1218.9 | 812.7 | 754.4 | 696.2 | 647.6 | 616.5 |
| 55° | 5011.5 | 4149.0 | 3286.5 | 2405.1 | 1523.7 | 1154.7 | 785.7 | 740.1 | 694.6 | 649.3 | 602.6 |
| 57.5° | 5568.3 | 4390.6 | 3212.8 | 2292.8 | 1372.7 | 1064.1 | 755.3 | 723.2 | 691.0 | 651.1 | 594.2 |
| 60° | 5904.8 | 4450.9 | 2997.0 | 2083.7 | 1170.3 | 946.4 | 722.5 | 697.2 | 671.9 | 645.6 | 586.3 |
| 62.5° | 5733.9 | 4196.7 | 2659.6 | 1800.9 | 942.3 | 805.6 | 668.9 | 652.1 | 635.4 | 632.1 | 577.1 |
| 65° | *5391.9* | *3837.1* | *2282.2* | *1512.5* | *742.8* | *679.0* | *615.1* | *607.2* | *599.3* | *599.7* | *557.8* |
| 67.5° | 4933.7 | 3409.1 | 1884.5 | 1229.9 | 575.3 | 557.2 | 539.1 | 543.5 | 547.9 | 546.8 | 523.3 |
| 70° | 4383.1 | 2942.0 | 1501.0 | 968.4 | 435.8 | 441.0 | 446.1 | 466.7 | 487.2 | 487.2 | 479.4 |
| 72.5° | 3727.1 | 2435.7 | 1144.5 | 740.3 | 336.2 | 351.8 | 367.4 | 396.6 | 425.7 | 430.6 | 430.7 |
| 75° | 2897.1 | 1855.4 | 813.6 | 537.3 | 261.0 | 275.2 | 289.4 | 322.0 | 354.6 | 377.2 | 375.3 |
| 77.5° | 2070.0 | 1298.6 | 527.2 | 364.1 | 201.0 | 210.6 | 220.3 | 251.9 | 283.6 | 320.8 | 319.8 |
| 80° | 1354.8 | 836.7 | 318.6 | 234.6 | 150.7 | 154.7 | 158.7 | 185.5 | 212.3 | 256.7 | 256.5 |
| 82.5° | 787.5 | 484.2 | 181.0 | 144.3 | 107.7 | 108.4 | 109.2 | 128.9 | 148.7 | 186.6 | 188.7 |
| 85° | 346.5 | 217.8 | 89.2 | 77.1 | 65.1 | 64.8 | 64.4 | 78.8 | 93.3 | 121.5 | 124.2 |
| 87.5° | 107.3 | 71.3 | 35.4 | 32.0 | 28.5 | 28.2 | 27.8 | 33.7 | 39.7 | 51.4 | 54.9 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1277.0 | 1267.5 | 1258.8 | 1250.3 | 1242.7 | 1235.2 | 1227.6 | 1220.1 | 1214.2 | 1208.3 | 1203.6 |
| 5° | 1257.1 | 1239.0 | 1223.9 | 1208.7 | 1195.4 | 1182.0 | 1169.9 | 1157.7 | 1148.4 | 1139.0 | 1132.5 |
| 7.5° | 1247.1 | 1223.1 | 1203.1 | 1183.2 | 1166.3 | 1149.5 | 1134.6 | 1119.8 | 1108.7 | 1097.6 | 1089.8 |
| 10° | 1247.8 | 1222.4 | 1202.5 | 1182.5 | 1164.4 | 1146.2 | 1129.5 | 1112.8 | 1099.5 | 1086.2 | 1077.5 |
| 12.5° | 1254.8 | 1234.2 | 1220.9 | 1207.7 | 1193.5 | 1179.3 | 1162.0 | 1144.7 | 1127.8 | 1110.8 | 1099.6 |
| 15° | 1255.0 | 1245.2 | 1247.0 | 1248.8 | 1245.1 | 1241.4 | 1226.4 | 1211.3 | 1187.2 | 1163.0 | 1146.0 |
| 17.5° | 1236.2 | 1239.8 | 1261.5 | 1283.3 | 1294.9 | 1306.4 | 1294.3 | 1282.2 | 1250.2 | 1218.2 | 1193.1 |
| 20° | 1196.6 | 1213.6 | 1251.4 | 1289.2 | 1313.4 | 1337.6 | 1332.0 | 1326.3 | 1289.8 | 1253.2 | 1222.4 |
| 22.5° | 1144.7 | 1169.8 | 1212.9 | 1256.1 | 1287.6 | 1319.1 | 1322.5 | 1325.8 | 1290.9 | 1256.0 | 1224.3 |
| 25° | 1090.4 | 1119.3 | 1158.1 | 1196.9 | 1227.9 | 1258.8 | 1270.4 | 1281.9 | 1253.3 | 1224.7 | 1196.5 |
| 27.5° | 1038.5 | 1066.4 | 1098.3 | 1130.1 | 1155.0 | 1179.8 | 1192.7 | 1205.6 | 1185.2 | 1164.8 | 1142.9 |
| 30° | 987.9 | 1010.2 | 1036.6 | 1063.1 | 1083.7 | 1104.3 | 1114.8 | 1125.3 | 1109.8 | 1094.2 | 1078.5 |
| 32.5° | 939.7 | 952.8 | 973.9 | 995.1 | 1014.8 | 1034.6 | 1046.3 | 1057.9 | 1043.7 | 1029.3 | 1016.8 |
| 35° | 893.1 | 896.8 | 912.9 | 929.0 | 948.5 | 968.1 | 982.1 | 996.1 | 985.9 | 975.8 | 964.2 |
| 37.5° | 846.7 | 842.7 | 854.3 | 865.8 | 885.4 | 904.9 | 922.2 | 939.4 | 934.7 | 930.1 | 919.4 |
| 40° | 799.2 | 790.2 | 798.5 | 806.8 | 825.7 | 844.5 | 864.4 | 884.3 | 885.5 | 886.6 | 877.5 |
| 42.5° | 751.1 | 739.1 | 745.9 | 752.7 | 770.6 | 788.5 | 810.0 | 831.4 | 837.2 | 842.9 | 835.3 |
| 45° | 706.5 | 694.9 | 700.6 | 706.3 | 723.3 | 740.3 | 762.5 | 784.8 | 793.0 | 801.2 | 794.4 |
| 47.5° | 668.3 | 658.6 | 663.9 | 669.3 | 685.9 | 702.5 | 724.4 | 746.4 | 755.8 | 765.3 | 760.5 |
| 50° | 634.2 | 625.5 | 633.9 | 642.3 | 658.0 | 673.6 | 693.3 | 712.9 | 725.1 | 737.3 | 737.0 |
| 52.5° | 608.0 | 599.4 | 612.1 | 624.6 | 639.0 | 653.3 | 671.6 | 690.0 | 704.4 | 718.8 | 721.4 |
| 55° | 589.0 | 575.5 | 593.4 | 611.3 | 626.7 | 642.2 | 658.3 | 674.3 | 689.5 | 704.9 | 708.4 |
| 57.5° | 574.4 | 554.7 | 573.9 | 593.2 | 611.4 | 629.5 | 645.4 | 661.3 | 676.7 | 692.1 | 695.7 |
| 60° | 560.7 | 535.1 | 552.0 | 568.9 | 589.7 | 610.6 | 626.7 | 642.8 | 658.3 | 673.8 | 677.8 |
| 62.5° | 545.1 | 513.1 | 523.8 | 534.6 | 558.9 | 583.2 | 600.4 | 617.6 | 631.8 | 646.0 | 649.8 |
| 65° | *523.7* | *489.7* | *493.8* | *497.9* | *523.9* | *550.0* | *566.5* | *583.0* | *595.4* | *607.9* | *611.9* |
| 67.5° | 494.9 | 466.6 | 465.3 | 464.0 | 488.0 | 512.1 | 527.7 | 543.3 | 554.1 | 564.9 | 568.7 |
| 70° | 459.3 | 439.1 | 434.6 | 430.2 | 451.3 | 472.5 | 485.9 | 499.4 | 509.1 | 518.9 | 522.6 |
| 72.5° | 416.8 | 403.0 | 396.4 | 389.9 | 406.6 | 423.2 | 435.3 | 447.5 | 457.0 | 466.6 | 471.0 |
| 75° | 364.6 | 354.0 | 347.7 | 341.4 | 353.7 | 366.1 | 377.1 | 388.1 | 396.8 | 405.5 | 410.1 |
| 77.5° | 311.3 | 302.7 | 296.3 | 290.0 | 300.0 | 310.1 | 319.5 | 329.0 | 338.2 | 347.2 | 351.5 |
| 80° | 249.4 | 242.2 | 236.9 | 231.5 | 239.9 | 248.2 | 256.2 | 264.2 | 271.1 | 278.0 | 283.7 |
| 82.5° | 185.2 | 181.7 | 177.9 | 174.1 | 173.4 | 172.7 | 169.9 | 167.1 | 181.9 | 196.7 | 206.3 |
| 85° | 120.5 | 116.7 | 112.5 | 108.3 | 104.7 | 101.0 | 93.3 | 85.6 | 99.4 | 113.3 | 125.2 |
| 87.5° | 53.4 | 51.9 | 51.1 | 50.3 | 50.1 | 50.0 | 44.1 | 38.2 | 44.0 | 49.8 | 54.6 |
| 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):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1198.9 | 1195.2 | 1191.5 | 1188.1 | 1184.6 | 1180.4 | 1184.6 | 1188.1 | 1191.5 | 1195.2 | 1198.9 |
| 5° | 1125.9 | 1121.3 | 1116.6 | 1113.1 | 1109.6 | 1106.1 | 1109.6 | 1113.1 | 1116.6 | 1121.3 | 1125.9 |
| 7.5° | 1082.0 | 1076.7 | 1071.4 | 1068.2 | 1065.1 | 1062.7 | 1065.1 | 1068.2 | 1071.4 | 1076.7 | 1082.0 |
| 10° | 1068.8 | 1063.7 | 1058.7 | 1056.0 | 1053.3 | 1052.2 | 1053.3 | 1056.0 | 1058.7 | 1063.7 | 1068.8 |
| 12.5° | 1088.4 | 1082.7 | 1077.1 | 1074.8 | 1072.5 | 1072.1 | 1072.5 | 1074.8 | 1077.1 | 1082.7 | 1088.4 |
| 15° | 1128.9 | 1121.1 | 1113.3 | 1110.3 | 1107.3 | 1107.1 | 1107.3 | 1110.3 | 1113.3 | 1121.1 | 1128.9 |
| 17.5° | 1167.9 | 1156.4 | 1144.7 | 1140.9 | 1137.1 | 1136.5 | 1137.1 | 1140.9 | 1144.7 | 1156.4 | 1167.9 |
| 20° | 1191.6 | 1176.8 | 1161.9 | 1157.2 | 1152.5 | 1151.0 | 1152.5 | 1157.2 | 1161.9 | 1176.8 | 1191.6 |
| 22.5° | 1192.5 | 1176.9 | 1161.2 | 1156.0 | 1150.7 | 1148.5 | 1150.7 | 1156.0 | 1161.2 | 1176.9 | 1192.5 |
| 25° | 1168.3 | 1154.8 | 1141.2 | 1136.3 | 1131.4 | 1128.5 | 1131.4 | 1136.3 | 1141.2 | 1154.8 | 1168.3 |
| 27.5° | 1121.0 | 1112.0 | 1102.8 | 1100.6 | 1098.3 | 1097.6 | 1098.3 | 1100.6 | 1102.8 | 1112.0 | 1121.0 |
| 30° | 1062.8 | 1058.1 | 1053.4 | 1053.4 | 1053.4 | 1054.2 | 1053.4 | 1053.4 | 1053.4 | 1058.1 | 1062.8 |
| 32.5° | 1004.3 | 1001.3 | 998.2 | 998.6 | 999.1 | 999.8 | 999.1 | 998.6 | 998.2 | 1001.3 | 1004.3 |
| 35° | 952.7 | 948.0 | 943.4 | 942.4 | 941.4 | 940.9 | 941.4 | 942.4 | 943.4 | 948.0 | 952.7 |
| 37.5° | 908.8 | 900.3 | 891.9 | 887.5 | 883.1 | 880.6 | 883.1 | 887.5 | 891.9 | 900.3 | 908.8 |
| 40° | 868.5 | 856.2 | 844.0 | 835.8 | 827.6 | 822.7 | 827.6 | 835.8 | 844.0 | 856.2 | 868.5 |
| 42.5° | 827.7 | 812.5 | 797.2 | 785.2 | 773.2 | 765.3 | 773.2 | 785.2 | 797.2 | 812.5 | 827.7 |
| 45° | 787.5 | 770.1 | 752.7 | 738.6 | 724.5 | 715.4 | 724.5 | 738.6 | 752.7 | 770.1 | 787.5 |
| 47.5° | 755.7 | 740.3 | 724.8 | 711.7 | 698.7 | 690.0 | 698.7 | 711.7 | 724.8 | 740.3 | 755.7 |
| 50° | 736.8 | 724.4 | 712.0 | 700.0 | 687.9 | 679.5 | 687.9 | 700.0 | 712.0 | 724.4 | 736.8 |
| 52.5° | 724.0 | 713.9 | 703.9 | 693.0 | 682.3 | 674.5 | 682.3 | 693.0 | 703.9 | 713.9 | 724.0 |
| 55° | 712.0 | 703.3 | 694.5 | 685.0 | 675.5 | 668.5 | 675.5 | 685.0 | 694.5 | 703.3 | 712.0 |
| 57.5° | 699.4 | 690.5 | 681.6 | 672.2 | 662.8 | 655.6 | 662.8 | 672.2 | 681.6 | 690.5 | 699.4 |
| 60° | 681.8 | 673.1 | 664.4 | 654.8 | 645.1 | 637.6 | 645.1 | 654.8 | 664.4 | 673.1 | 681.8 |
| 62.5° | 653.7 | 645.8 | 638.0 | 627.8 | 617.6 | 608.7 | 617.6 | 627.8 | 638.0 | 645.8 | 653.7 |
| 65° | *615.7* | *608.2* | *600.7* | *590.8* | *581.0* | *573.2* | *581.0* | *590.8* | *600.7* | *608.2* | *615.7* |
| 67.5° | 572.5 | 565.6 | 558.7 | 549.5 | 540.3 | 533.3 | 540.3 | 549.5 | 558.7 | 565.6 | 572.5 |
| 70° | 526.2 | 520.6 | 515.0 | 506.2 | 497.4 | 489.4 | 497.4 | 506.2 | 515.0 | 520.6 | 526.2 |
| 72.5° | 475.4 | 470.7 | 466.0 | 457.6 | 449.3 | 441.5 | 449.3 | 457.6 | 466.0 | 470.7 | 475.4 |
| 75° | 414.7 | 412.4 | 410.1 | 403.1 | 396.0 | 388.6 | 396.0 | 403.1 | 410.1 | 412.4 | 414.7 |
| 77.5° | 355.8 | 352.6 | 349.3 | 342.2 | 335.2 | 329.3 | 335.2 | 342.2 | 349.3 | 352.6 | 355.8 |
| 80° | 289.4 | 288.0 | 286.6 | 277.1 | 267.5 | 256.4 | 267.5 | 277.1 | 286.6 | 288.0 | 289.4 |
| 82.5° | 216.0 | 215.4 | 214.8 | 206.7 | 198.7 | 191.6 | 198.7 | 206.7 | 214.8 | 215.4 | 216.0 |
| 85° | 137.2 | 136.2 | 135.2 | 128.9 | 122.6 | 116.2 | 122.6 | 128.9 | 135.2 | 136.2 | 137.2 |
| 87.5° | 59.5 | 58.3 | 57.0 | 53.8 | 50.5 | 47.4 | 50.5 | 53.8 | 57.0 | 58.3 | 59.5 |
| 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: P1198721
CATALOG NUMBER: GPC-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1203.6 | 1208.3 | 1214.2 | 1220.1 | 1227.6 | 1235.2 | 1242.7 | 1250.3 | 1258.8 | 1267.5 | 1277.0 |
| 5° | 1132.5 | 1139.0 | 1148.4 | 1157.7 | 1169.9 | 1182.0 | 1195.4 | 1208.7 | 1223.9 | 1239.0 | 1257.1 |
| 7.5° | 1089.8 | 1097.6 | 1108.7 | 1119.8 | 1134.6 | 1149.5 | 1166.3 | 1183.2 | 1203.1 | 1223.1 | 1247.1 |
| 10° | 1077.5 | 1086.2 | 1099.5 | 1112.8 | 1129.5 | 1146.2 | 1164.4 | 1182.5 | 1202.5 | 1222.4 | 1247.8 |
| 12.5° | 1099.6 | 1110.8 | 1127.8 | 1144.7 | 1162.0 | 1179.3 | 1193.5 | 1207.7 | 1220.9 | 1234.2 | 1254.8 |
| 15° | 1146.0 | 1163.0 | 1187.2 | 1211.3 | 1226.4 | 1241.4 | 1245.1 | 1248.8 | 1247.0 | 1245.2 | 1255.0 |
| 17.5° | 1193.1 | 1218.2 | 1250.2 | 1282.2 | 1294.3 | 1306.4 | 1294.9 | 1283.3 | 1261.5 | 1239.8 | 1236.2 |
| 20° | 1222.4 | 1253.2 | 1289.8 | 1326.3 | 1332.0 | 1337.6 | 1313.4 | 1289.2 | 1251.4 | 1213.6 | 1196.6 |
| 22.5° | 1224.3 | 1256.0 | 1290.9 | 1325.8 | 1322.5 | 1319.1 | 1287.6 | 1256.1 | 1212.9 | 1169.8 | 1144.7 |
| 25° | 1196.5 | 1224.7 | 1253.3 | 1281.9 | 1270.4 | 1258.8 | 1227.9 | 1196.9 | 1158.1 | 1119.3 | 1090.4 |
| 27.5° | 1142.9 | 1164.8 | 1185.2 | 1205.6 | 1192.7 | 1179.8 | 1155.0 | 1130.1 | 1098.3 | 1066.4 | 1038.5 |
| 30° | 1078.5 | 1094.2 | 1109.8 | 1125.3 | 1114.8 | 1104.3 | 1083.7 | 1063.1 | 1036.6 | 1010.2 | 987.9 |
| 32.5° | 1016.8 | 1029.3 | 1043.7 | 1057.9 | 1046.3 | 1034.6 | 1014.8 | 995.1 | 973.9 | 952.8 | 939.7 |
| 35° | 964.2 | 975.8 | 985.9 | 996.1 | 982.1 | 968.1 | 948.5 | 929.0 | 912.9 | 896.8 | 893.1 |
| 37.5° | 919.4 | 930.1 | 934.7 | 939.4 | 922.2 | 904.9 | 885.4 | 865.8 | 854.3 | 842.7 | 846.7 |
| 40° | 877.5 | 886.6 | 885.5 | 884.3 | 864.4 | 844.5 | 825.7 | 806.8 | 798.5 | 790.2 | 799.2 |
| 42.5° | 835.3 | 842.9 | 837.2 | 831.4 | 810.0 | 788.5 | 770.6 | 752.7 | 745.9 | 739.1 | 751.1 |
| 45° | 794.4 | 801.2 | 793.0 | 784.8 | 762.5 | 740.3 | 723.3 | 706.3 | 700.6 | 694.9 | 706.5 |
| 47.5° | 760.5 | 765.3 | 755.8 | 746.4 | 724.4 | 702.5 | 685.9 | 669.3 | 663.9 | 658.6 | 668.3 |
| 50° | 737.0 | 737.3 | 725.1 | 712.9 | 693.3 | 673.6 | 658.0 | 642.3 | 633.9 | 625.5 | 634.2 |
| 52.5° | 721.4 | 718.8 | 704.4 | 690.0 | 671.6 | 653.3 | 639.0 | 624.6 | 612.1 | 599.4 | 608.0 |
| 55° | 708.4 | 704.9 | 689.5 | 674.3 | 658.3 | 642.2 | 626.7 | 611.3 | 593.4 | 575.5 | 589.0 |
| 57.5° | 695.7 | 692.1 | 676.7 | 661.3 | 645.4 | 629.5 | 611.4 | 593.2 | 573.9 | 554.7 | 574.4 |
| 60° | 677.8 | 673.8 | 658.3 | 642.8 | 626.7 | 610.6 | 589.7 | 568.9 | 552.0 | 535.1 | 560.7 |
| 62.5° | 649.8 | 646.0 | 631.8 | 617.6 | 600.4 | 583.2 | 558.9 | 534.6 | 523.8 | 513.1 | 545.1 |
| 65° | *611.9* | *607.9* | *595.4* | *583.0* | *566.5* | *550.0* | *523.9* | *497.9* | *493.8* | *489.7* | *523.7* |
| 67.5° | 568.7 | 564.9 | 554.1 | 543.3 | 527.7 | 512.1 | 488.0 | 464.0 | 465.3 | 466.6 | 494.9 |
| 70° | 522.6 | 518.9 | 509.1 | 499.4 | 485.9 | 472.5 | 451.3 | 430.2 | 434.6 | 439.1 | 459.3 |
| 72.5° | 471.0 | 466.6 | 457.0 | 447.5 | 435.3 | 423.2 | 406.6 | 389.9 | 396.4 | 403.0 | 416.8 |
| 75° | 410.1 | 405.5 | 396.8 | 388.1 | 377.1 | 366.1 | 353.7 | 341.4 | 347.7 | 354.0 | 364.6 |
| 77.5° | 351.5 | 347.2 | 338.2 | 329.0 | 319.5 | 310.1 | 300.0 | 290.0 | 296.3 | 302.7 | 311.3 |
| 80° | 283.7 | 278.0 | 271.1 | 264.2 | 256.2 | 248.2 | 239.9 | 231.5 | 236.9 | 242.2 | 249.4 |
| 82.5° | 206.3 | 196.7 | 181.9 | 167.1 | 169.9 | 172.7 | 173.4 | 174.1 | 177.9 | 181.7 | 185.2 |
| 85° | 125.2 | 113.3 | 99.4 | 85.6 | 93.3 | 101.0 | 104.7 | 108.3 | 112.5 | 116.7 | 120.5 |
| 87.5° | 54.6 | 49.8 | 44.0 | 38.2 | 44.1 | 50.0 | 50.1 | 50.3 | 51.1 | 51.9 | 53.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P1198721
CATALOG NUMBER: GPC-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1286.6 | 1298.4 | 1309.0 | 1320.0 | 1331.0 | 1342.5 | 1353.9 | 1365.3 | 1376.7 | 1387.5 | 1398.2 |
| 5° | 1275.2 | 1295.9 | 1316.9 | 1339.1 | 1361.3 | 1385.0 | 1408.8 | 1432.4 | 1456.1 | 1479.7 | 1503.4 |
| 7.5° | 1271.1 | 1297.9 | 1326.5 | 1357.5 | 1388.4 | 1423.6 | 1458.8 | 1494.9 | 1531.0 | 1570.1 | 1609.2 |
| 10° | 1273.1 | 1301.9 | 1337.2 | 1373.9 | 1410.5 | 1453.3 | 1496.0 | 1543.7 | 1591.4 | 1640.8 | 1690.3 |
| 12.5° | 1275.6 | 1302.4 | 1339.5 | 1380.9 | 1422.4 | 1472.8 | 1523.2 | 1577.2 | 1631.3 | 1685.6 | 1739.9 |
| 15° | 1265.0 | 1286.4 | 1327.5 | 1375.5 | 1423.5 | 1481.5 | 1539.5 | 1598.2 | 1656.9 | 1713.5 | 1770.1 |
| 17.5° | 1232.5 | 1245.8 | 1294.1 | 1351.8 | 1409.5 | 1476.9 | 1544.2 | 1608.2 | 1672.2 | 1729.7 | 1787.1 |
| 20° | 1179.7 | 1183.2 | 1239.4 | 1310.9 | 1382.5 | 1464.1 | 1545.7 | 1616.0 | 1686.4 | 1746.1 | 1805.8 |
| 22.5° | 1119.6 | 1112.8 | 1176.8 | 1263.0 | 1349.1 | 1448.4 | 1547.7 | 1626.6 | 1705.5 | 1766.5 | 1827.5 |
| 25° | 1061.4 | 1043.0 | 1108.6 | 1209.4 | 1310.4 | 1433.0 | 1555.6 | 1645.8 | 1735.9 | 1795.7 | 1855.4 |
| 27.5° | 1010.5 | 988.1 | 1047.8 | 1160.5 | 1273.2 | 1422.6 | 1572.0 | 1675.7 | 1779.3 | 1836.4 | 1893.3 |
| 30° | 965.8 | 948.2 | 998.3 | 1119.6 | 1240.9 | 1417.8 | 1594.6 | 1714.5 | 1834.4 | 1889.4 | 1944.5 |
| 32.5° | 926.6 | 918.7 | 959.1 | 1084.3 | 1209.4 | 1411.8 | 1614.1 | 1754.9 | 1895.8 | 1950.3 | 2004.8 |
| 35° | 889.5 | 892.8 | 926.5 | 1049.6 | 1172.8 | 1400.5 | 1628.3 | 1801.0 | 1973.8 | 2026.0 | 2078.2 |
| 37.5° | 850.7 | 862.6 | 892.0 | 1008.8 | 1125.6 | 1381.2 | 1636.8 | 1852.7 | 2068.6 | 2135.1 | 2201.7 |
| 40° | 808.2 | 826.4 | 853.1 | 960.1 | 1067.2 | 1354.6 | 1642.1 | 1918.2 | 2194.3 | 2291.3 | 2388.3 |
| 42.5° | 763.1 | 786.0 | 810.6 | 906.4 | 1002.2 | 1327.2 | 1652.3 | 2004.0 | 2355.7 | 2495.7 | 2635.7 |
| 45° | 718.2 | 740.4 | 765.3 | 849.3 | 933.3 | 1301.7 | 1670.1 | 2116.8 | 2563.6 | 2752.5 | 2941.3 |
| 47.5° | 678.1 | 697.2 | 729.4 | 804.2 | 879.0 | 1280.6 | 1682.3 | 2237.1 | 2791.9 | 3057.7 | 3323.4 |
| 50° | 642.8 | 665.0 | 707.3 | 774.2 | 841.1 | 1257.7 | 1674.3 | 2348.6 | 3023.0 | 3423.7 | 3824.3 |
| 52.5° | 616.5 | 647.6 | 696.2 | 754.4 | 812.7 | 1218.9 | 1625.2 | 2421.1 | 3216.9 | 3808.1 | 4399.3 |
| 55° | 602.6 | 649.3 | 694.6 | 740.1 | 785.7 | 1154.7 | 1523.7 | 2405.1 | 3286.5 | 4149.0 | 5011.5 |
| 57.5° | 594.2 | 651.1 | 691.0 | 723.2 | 755.3 | 1064.1 | 1372.7 | 2292.8 | 3212.8 | 4390.6 | 5568.3 |
| 60° | 586.3 | 645.6 | 671.9 | 697.2 | 722.5 | 946.4 | 1170.3 | 2083.7 | 2997.0 | 4450.9 | 5904.8 |
| 62.5° | 577.1 | 632.1 | 635.4 | 652.1 | 668.9 | 805.6 | 942.3 | 1800.9 | 2659.6 | 4196.7 | 5733.9 |
| 65° | *557.8* | *599.7* | *599.3* | *607.2* | *615.1* | *679.0* | *742.8* | *1512.5* | *2282.2* | *3837.1* | *5391.9* |
| 67.5° | 523.3 | 546.8 | 547.9 | 543.5 | 539.1 | 557.2 | 575.3 | 1229.9 | 1884.5 | 3409.1 | 4933.7 |
| 70° | 479.4 | 487.2 | 487.2 | 466.7 | 446.1 | 441.0 | 435.8 | 968.4 | 1501.0 | 2942.0 | 4383.1 |
| 72.5° | 430.7 | 430.6 | 425.7 | 396.6 | 367.4 | 351.8 | 336.2 | 740.3 | 1144.5 | 2435.7 | 3727.1 |
| 75° | 375.3 | 377.2 | 354.6 | 322.0 | 289.4 | 275.2 | 261.0 | 537.3 | 813.6 | 1855.4 | 2897.1 |
| 77.5° | 319.8 | 320.8 | 283.6 | 251.9 | 220.3 | 210.6 | 201.0 | 364.1 | 527.2 | 1298.6 | 2070.0 |
| 80° | 256.5 | 256.7 | 212.3 | 185.5 | 158.7 | 154.7 | 150.7 | 234.6 | 318.6 | 836.7 | 1354.8 |
| 82.5° | 188.7 | 186.6 | 148.7 | 128.9 | 109.2 | 108.4 | 107.7 | 144.3 | 181.0 | 484.2 | 787.5 |
| 85° | 124.2 | 121.5 | 93.3 | 78.8 | 64.4 | 64.8 | 65.1 | 77.1 | 89.2 | 217.8 | 346.5 |
| 87.5° | 54.9 | 51.4 | 39.7 | 33.7 | 27.8 | 28.2 | 28.5 | 32.0 | 35.4 | 71.3 | 107.3 |
| 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: P1198721
CATALOG NUMBER: GPC-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | *1300.1* | 1300.1 | 1300.1 |
| 2.5° | 1403.5 | 1408.8 | 1416.3 | 1423.9 | 1428.4 | 1432.9 | 1435.1 | 1437.3 | *1436.3* | 1437.3 | 1435.1 |
| 5° | 1522.0 | 1540.5 | 1558.9 | 1577.3 | 1587.3 | 1597.2 | 1603.3 | 1609.4 | *1614.0* | 1609.4 | 1603.3 |
| 7.5° | 1639.3 | 1669.4 | 1696.5 | 1723.6 | 1739.9 | 1756.2 | 1765.1 | 1773.9 | *1778.1* | 1773.9 | 1765.1 |
| 10° | 1725.9 | 1761.5 | 1793.3 | 1825.1 | 1844.3 | 1863.5 | 1872.1 | 1880.6 | *1883.9* | 1880.6 | 1872.1 |
| 12.5° | 1778.5 | 1817.1 | 1845.8 | 1874.5 | 1888.5 | 1902.4 | 1907.1 | 1911.8 | *1912.3* | 1911.8 | 1907.1 |
| 15° | 1803.4 | 1836.7 | 1854.7 | 1872.8 | 1873.3 | 1873.8 | 1868.8 | 1863.8 | *1857.9* | 1863.8 | 1868.8 |
| 17.5° | 1809.6 | 1832.1 | 1832.4 | 1832.7 | 1812.5 | 1792.3 | 1773.8 | 1755.2 | *1742.2* | 1755.2 | 1773.8 |
| 20° | 1813.6 | 1821.5 | 1797.8 | 1774.1 | 1729.5 | 1684.9 | 1652.4 | 1619.9 | *1600.0* | 1619.9 | 1652.4 |
| 22.5° | 1817.2 | 1806.9 | 1757.8 | 1708.7 | 1643.1 | 1577.5 | 1536.9 | 1496.3 | *1474.3* | 1496.3 | 1536.9 |
| 25° | 1823.0 | 1790.6 | 1716.0 | 1641.5 | 1561.8 | 1482.1 | 1439.4 | 1396.8 | *1376.0* | 1396.8 | 1439.4 |
| 27.5° | 1835.4 | 1777.3 | 1678.6 | 1579.9 | 1491.6 | 1403.3 | 1361.3 | 1319.4 | *1299.6* | 1319.4 | 1361.3 |
| 30° | 1858.0 | 1771.6 | 1650.1 | 1528.5 | 1436.5 | 1344.5 | 1305.6 | 1266.6 | *1248.3* | 1266.6 | 1305.6 |
| 32.5° | 1886.5 | 1768.1 | 1630.6 | 1493.1 | 1406.7 | 1320.2 | 1289.6 | 1259.0 | *1245.8* | 1259.0 | 1289.6 |
| 35° | 1933.3 | 1788.5 | 1645.2 | 1502.0 | 1441.9 | 1381.9 | 1374.7 | 1367.6 | *1366.5* | 1367.6 | 1374.7 |
| 37.5° | 2031.2 | 1860.8 | 1730.6 | 1600.4 | 1596.5 | 1592.6 | 1625.2 | 1657.9 | *1674.8* | 1657.9 | 1625.2 |
| 40° | 2202.9 | 2017.6 | 1920.7 | 1823.9 | 1892.2 | 1960.6 | 2039.9 | 2119.2 | *2158.8* | 2119.2 | 2039.9 |
| 42.5° | 2451.8 | 2267.9 | 2212.1 | 2156.4 | 2305.4 | 2454.5 | 2598.8 | 2743.1 | *2827.8* | 2743.1 | 2598.8 |
| 45° | 2776.1 | 2610.9 | 2586.3 | 2561.6 | 2800.4 | 3039.3 | 3276.4 | 3513.5 | *3657.5* | 3513.5 | 3276.4 |
| 47.5° | 3162.8 | 3002.0 | 2997.0 | 2992.0 | 3336.6 | 3681.0 | 4028.1 | 4375.1 | *4578.9* | 4375.1 | 4028.1 |
| 50° | 3625.8 | 3427.4 | 3428.2 | 3429.1 | 3873.1 | 4317.1 | 4775.3 | 5233.4 | *5510.4* | 5233.4 | 4775.3 |
| 52.5° | 4159.0 | 3918.6 | 3894.3 | 3870.0 | 4400.4 | 4930.8 | 5497.6 | 6064.4 | *6396.4* | 6064.4 | 5497.6 |
| 55° | 4774.0 | 4536.5 | 4441.8 | 4347.1 | 4937.4 | 5527.6 | 6203.4 | 6879.1 | *7274.0* | 6879.1 | 6203.4 |
| 57.5° | 5439.0 | 5309.6 | 5119.6 | 4929.6 | 5525.6 | 6121.7 | 6887.1 | 7652.4 | *8142.1* | 7652.4 | 6887.1 |
| 60° | 6105.6 | 6306.5 | 6070.6 | 5834.6 | 6398.6 | 6962.7 | 7782.2 | 8601.7 | *9130.9* | 8601.7 | 7782.2 |
| 62.5° | 6282.7 | 6831.6 | 6805.0 | 6778.4 | 7295.1 | 7811.8 | 8591.5 | 9371.2 | *9860.3* | 9371.2 | 8591.5 |
| 65° | *5907.0* | *6422.1* | *6524.1* | *6625.9* | *7282.6* | *7939.3* | *8695.3* | *9451.3* | *9867.8* | *9451.3* | *8695.3* |
| 67.5° | 5423.6 | 5913.5 | 5961.3 | 6009.0 | 6693.2 | 7377.4 | 8136.7 | 8896.0 | *9222.2* | 8896.0 | 8136.7 |
| 70° | 4916.0 | 5448.9 | 5470.3 | 5491.7 | 6103.5 | 6715.3 | 7368.8 | 8022.1 | *8203.5* | 8022.1 | 7368.8 |
| 72.5° | 4338.6 | 4950.1 | 4965.5 | 4980.8 | 5459.5 | 5938.2 | 6427.6 | 6916.9 | *6935.3* | 6916.9 | 6427.6 |
| 75° | 3530.0 | 4163.0 | 4219.8 | 4276.6 | 4649.0 | 5021.5 | 5366.0 | 5710.5 | *5618.2* | 5710.5 | 5366.0 |
| 77.5° | 2660.8 | 3251.6 | 3332.9 | 3414.2 | 3697.4 | 3980.5 | 4224.8 | 4469.2 | *4310.5* | 4469.2 | 4224.8 |
| 80° | 1851.8 | 2348.8 | 2449.9 | 2551.0 | 2764.8 | 2978.6 | 3106.9 | 3235.1 | *2980.0* | 3235.1 | 3106.9 |
| 82.5° | 1127.3 | 1467.2 | 1580.1 | 1693.0 | 1840.2 | 1987.4 | 2040.9 | 2094.4 | *1893.8* | 2094.4 | 2040.9 |
| 85° | 526.8 | 707.2 | 803.2 | 899.3 | 1020.2 | 1141.1 | 1171.5 | 1201.9 | *1041.2* | 1201.9 | 1171.5 |
| 87.5° | 167.9 | 228.5 | 282.1 | 335.7 | 396.1 | 456.6 | 459.2 | 461.7 | *387.6* | 461.7 | 459.2 |
| 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: P1198721
CATALOG NUMBER: GPC-SB1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 | 1300.1 |
| 2.5° | 1432.9 | 1428.4 | 1423.9 | 1416.3 | 1408.8 | 1403.5 | 1398.2 |
| 5° | 1597.2 | 1587.3 | 1577.3 | 1558.9 | 1540.5 | 1522.0 | 1503.4 |
| 7.5° | 1756.2 | 1739.9 | 1723.6 | 1696.5 | 1669.4 | 1639.3 | 1609.2 |
| 10° | 1863.5 | 1844.3 | 1825.1 | 1793.3 | 1761.5 | 1725.9 | 1690.3 |
| 12.5° | 1902.4 | 1888.5 | 1874.5 | 1845.8 | 1817.1 | 1778.5 | 1739.9 |
| 15° | 1873.8 | 1873.3 | 1872.8 | 1854.7 | 1836.7 | 1803.4 | 1770.1 |
| 17.5° | 1792.3 | 1812.5 | 1832.7 | 1832.4 | 1832.1 | 1809.6 | 1787.1 |
| 20° | 1684.9 | 1729.5 | 1774.1 | 1797.8 | 1821.5 | 1813.6 | 1805.8 |
| 22.5° | 1577.5 | 1643.1 | 1708.7 | 1757.8 | 1806.9 | 1817.2 | 1827.5 |
| 25° | 1482.1 | 1561.8 | 1641.5 | 1716.0 | 1790.6 | 1823.0 | 1855.4 |
| 27.5° | 1403.3 | 1491.6 | 1579.9 | 1678.6 | 1777.3 | 1835.4 | 1893.3 |
| 30° | 1344.5 | 1436.5 | 1528.5 | 1650.1 | 1771.6 | 1858.0 | 1944.5 |
| 32.5° | 1320.2 | 1406.7 | 1493.1 | 1630.6 | 1768.1 | 1886.5 | 2004.8 |
| 35° | 1381.9 | 1441.9 | 1502.0 | 1645.2 | 1788.5 | 1933.3 | 2078.2 |
| 37.5° | 1592.6 | 1596.5 | 1600.4 | 1730.6 | 1860.8 | 2031.2 | 2201.7 |
| 40° | 1960.6 | 1892.2 | 1823.9 | 1920.7 | 2017.6 | 2202.9 | 2388.3 |
| 42.5° | 2454.5 | 2305.4 | 2156.4 | 2212.1 | 2267.9 | 2451.8 | 2635.7 |
| 45° | 3039.3 | 2800.4 | 2561.6 | 2586.3 | 2610.9 | 2776.1 | 2941.3 |
| 47.5° | 3681.0 | 3336.6 | 2992.0 | 2997.0 | 3002.0 | 3162.8 | 3323.4 |
| 50° | 4317.1 | 3873.1 | 3429.1 | 3428.2 | 3427.4 | 3625.8 | 3824.3 |
| 52.5° | 4930.8 | 4400.4 | 3870.0 | 3894.3 | 3918.6 | 4159.0 | 4399.3 |
| 55° | 5527.6 | 4937.4 | 4347.1 | 4441.8 | 4536.5 | 4774.0 | 5011.5 |
| 57.5° | 6121.7 | 5525.6 | 4929.6 | 5119.6 | 5309.6 | 5439.0 | 5568.3 |
| 60° | 6962.7 | 6398.6 | 5834.6 | 6070.6 | 6306.5 | 6105.6 | 5904.8 |
| 62.5° | 7811.8 | 7295.1 | 6778.4 | 6805.0 | 6831.6 | 6282.7 | 5733.9 |
| 65° | *7939.3* | *7282.6* | *6625.9* | *6524.1* | *6422.1* | *5907.0* | *5391.9* |
| 67.5° | 7377.4 | 6693.2 | 6009.0 | 5961.3 | 5913.5 | 5423.6 | 4933.7 |
| 70° | 6715.3 | 6103.5 | 5491.7 | 5470.3 | 5448.9 | 4916.0 | 4383.1 |
| 72.5° | 5938.2 | 5459.5 | 4980.8 | 4965.5 | 4950.1 | 4338.6 | 3727.1 |
| 75° | 5021.5 | 4649.0 | 4276.6 | 4219.8 | 4163.0 | 3530.0 | 2897.1 |
| 77.5° | 3980.5 | 3697.4 | 3414.2 | 3332.9 | 3251.6 | 2660.8 | 2070.0 |
| 80° | 2978.6 | 2764.8 | 2551.0 | 2449.9 | 2348.8 | 1851.8 | 1354.8 |
| 82.5° | 1987.4 | 1840.2 | 1693.0 | 1580.1 | 1467.2 | 1127.3 | 787.5 |
| 85° | 1141.1 | 1020.2 | 899.3 | 803.2 | 707.2 | 526.8 | 346.5 |
| 87.5° | 456.6 | 396.1 | 335.7 | 282.1 | 228.5 | 167.9 | 107.3 |
| 90° | 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-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

Data in this report applies to products using SA and SB light squares

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

## Test Information

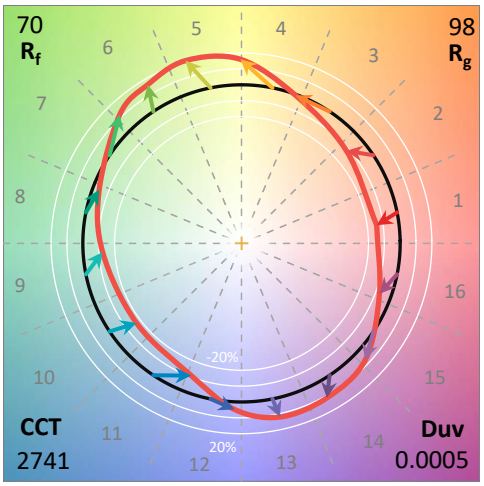
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-1-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-727-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.***TESTED IN SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2741 | CRI (Ra): | 71.5 | | |
| CIE u': | 0.2605 | R1: | 69.2 | R9: | -16.1 |
| CIE v': | 0.5272 | R2: | 79.4 | R10: | 51.4 |
| Duv: | 0.0005 | R3: | 87.8 | R11: | 63.1 |
| CIE x: | 0.4573 | R4: | 69.4 | R12: | 42.0 |
| CIE y: | 0.4113 | R5: | 66.4 | R13: | 70.2 |
| CIE z: | 0.1313 | R6: | 69.8 | R14: | 92.4 |
| Peak Wavelength (nm): | 602 | R7: | 79.8 | | |
| Dominant Wavelength (nm): | 583 | R8: | 50.1 | | |
| Purity: | 61.2 | | | | |

| | |
|---|---|
| Rf: | 69.9 |
| Rg: | 98.3 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.3./42% |
| Sphere Temperature (°C): | 25.7 |

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

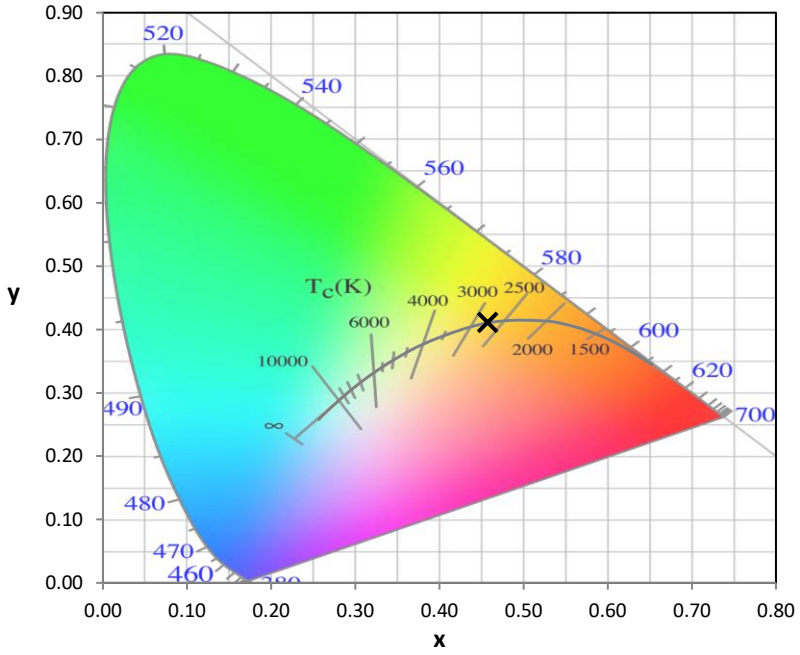
REPORT NUMBER: SP1-1908-441-1-R4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

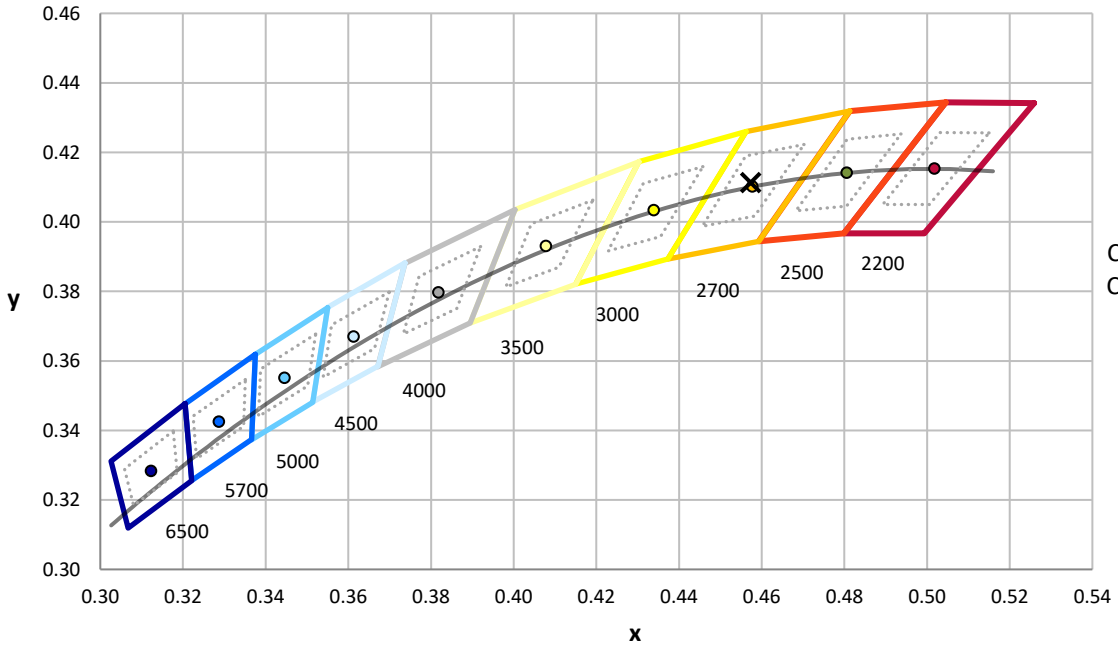
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-1-R4

## CIE 1931 Chromaticity Diagram




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



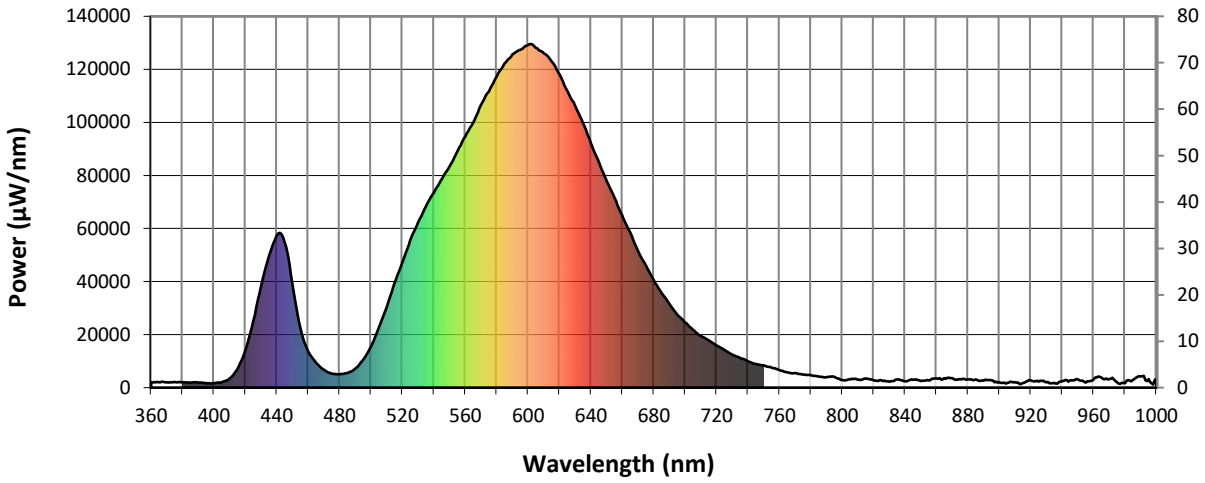

CCT = 2741K
CIE x = 0.4573
CIE y = 0.4113
Duv = 0.0005

Point lies inside the ANSI 2700K 4-step quadrangle

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

REPORT NUMBER: SP1-1908-441-1-R4

## Photopic Flux vs. Wavelength



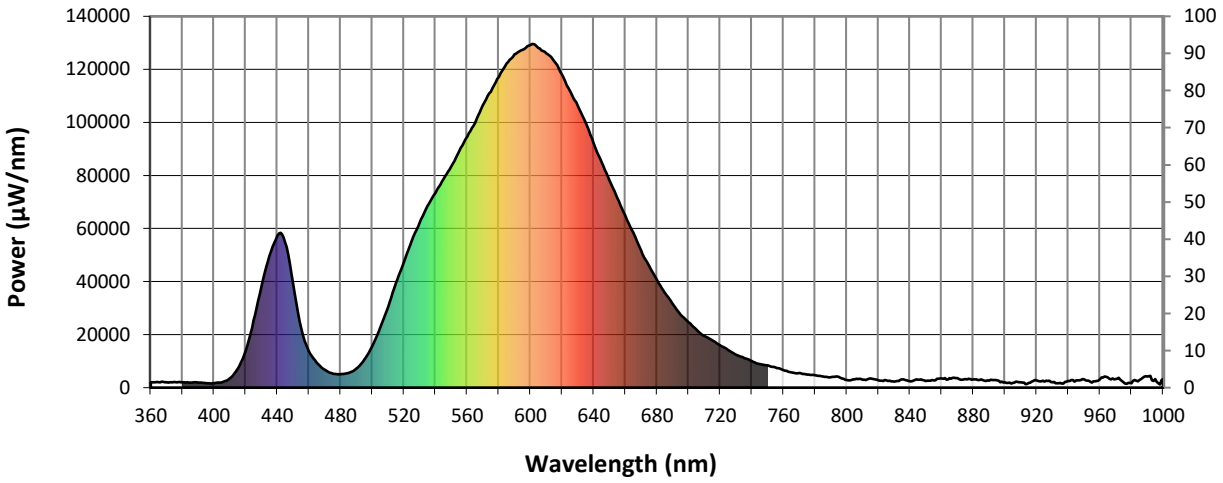

######

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-1-R4

## Scotopic Flux vs. Wavelength



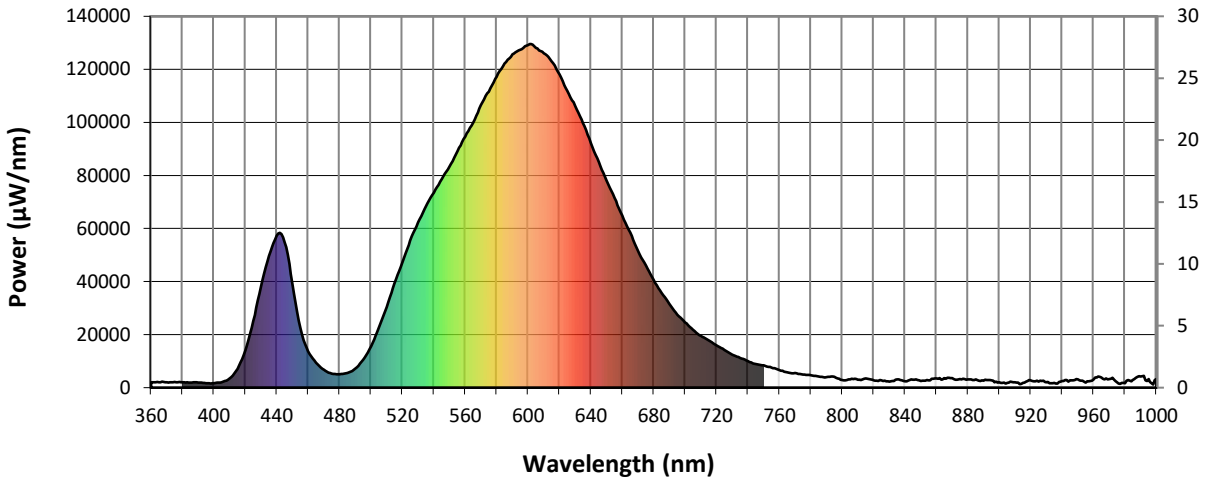

**Scotopic Lumens: 6474.3** **S/P: 1.04**

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-1-R4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 2145.7** **M/P: 0.35**

| 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 | 2044 | NR | 490 | 7179 | NR | 620 | 118034 | NR | 750 | 8362 | NR | 880 | 3128 | NR |
| 365 | 2016 | NR | 495 | 10476 | NR | 625 | 111884 | NR | 755 | 7635 | NR | 885 | 3110 | NR |
| 370 | 2020 | NR | 500 | 15549 | NR | 630 | 106119 | NR | 760 | 6582 | NR | 890 | 2632 | NR |
| 375 | 2137 | NR | 505 | 22477 | NR | 635 | 99706 | NR | 765 | 5777 | NR | 895 | 2709 | NR |
| 380 | 2046 | NR | 510 | 30417 | NR | 640 | 92142 | NR | 770 | 5474 | NR | 900 | 2016 | NR |
| 385 | 1925 | NR | 515 | 39274 | NR | 645 | 84987 | NR | 775 | 4977 | NR | 905 | 1748 | NR |
| 390 | 1893 | NR | 520 | 47282 | NR | 650 | 78016 | NR | 780 | 4723 | NR | 910 | 2046 | NR |
| 395 | 1695 | NR | 525 | 55413 | NR | 655 | 71541 | NR | 785 | 4219 | NR | 915 | 1844 | NR |
| 400 | 1633 | NR | 530 | 62377 | NR | 660 | 64863 | NR | 790 | 3969 | NR | 920 | 2734 | NR |
| 405 | 2065 | NR | 535 | 68520 | NR | 665 | 58485 | NR | 795 | 4122 | NR | 925 | 2307 | NR |
| 410 | 3449 | NR | 540 | 73435 | NR | 670 | 51641 | NR | 800 | 2864 | NR | 930 | 2039 | NR |
| 415 | 7117 | NR | 545 | 78677 | NR | 675 | 46030 | NR | 805 | 3151 | NR | 935 | 1784 | NR |
| 420 | 13992 | NR | 550 | 83331 | NR | 680 | 40590 | NR | 810 | 3022 | NR | 940 | 2464 | NR |
| 425 | 25176 | NR | 555 | 89120 | NR | 685 | 35691 | NR | 815 | 3471 | NR | 945 | 2794 | NR |
| 430 | 38151 | NR | 560 | 94613 | NR | 690 | 31631 | NR | 820 | 2749 | NR | 950 | 3090 | NR |
| 435 | 49673 | NR | 565 | 99818 | NR | 695 | 27437 | NR | 825 | 2729 | NR | 955 | 1866 | NR |
| 440 | 57273 | NR | 570 | 106526 | NR | 700 | 24589 | NR | 830 | 2282 | NR | 960 | 3110 | NR |
| 445 | 54802 | NR | 575 | 111610 | NR | 705 | 21832 | NR | 835 | 3140 | NR | 965 | 3880 | NR |
| 450 | 39184 | NR | 580 | 117163 | NR | 710 | 19500 | NR | 840 | 2365 | NR | 970 | 3243 | NR |
| 455 | 22506 | NR | 585 | 122201 | NR | 715 | 17870 | NR | 845 | 3024 | NR | 975 | 2014 | NR |
| 460 | 13692 | NR | 590 | 125662 | NR | 720 | 15924 | NR | 850 | 2510 | NR | 980 | 1688 | NR |
| 465 | 9446 | NR | 595 | 127415 | NR | 725 | 14268 | NR | 855 | 2739 | NR | 985 | 2827 | NR |
| 470 | 6698 | NR | 600 | 129155 | NR | 730 | 12438 | NR | 860 | 3515 | NR | 990 | 4172 | NR |
| 475 | 5328 | NR | 605 | 128057 | NR | 735 | 11255 | NR | 865 | 3600 | NR | 995 | 3177 | NR |
| 480 | 5081 | NR | 610 | 126031 | NR | 740 | 9951 | NR | 870 | 3609 | NR | 1000 | 3241 | NR |
| 485 | 5579 | NR | 615 | 123059 | NR | 745 | 8870 | NR | 875 | 3208 | NR | | | |

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

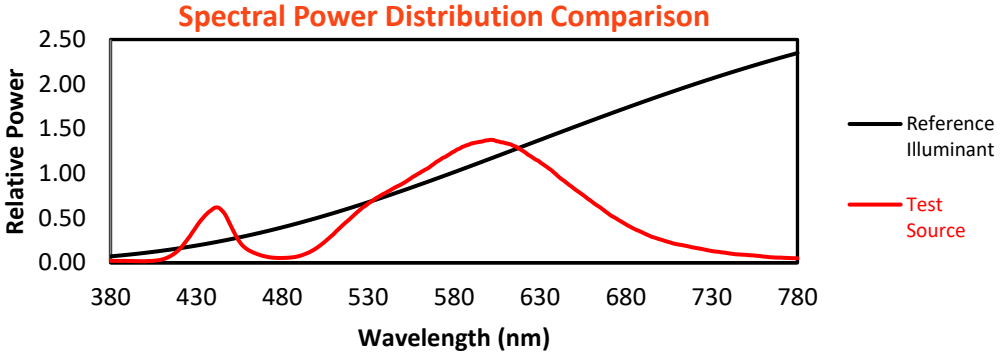
REPORT NUMBER: SP1-1908-441-1-R4

# TM-30-18

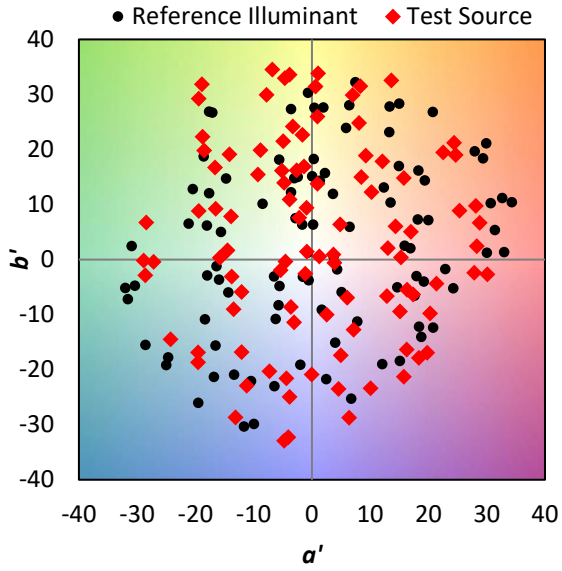
## Summary

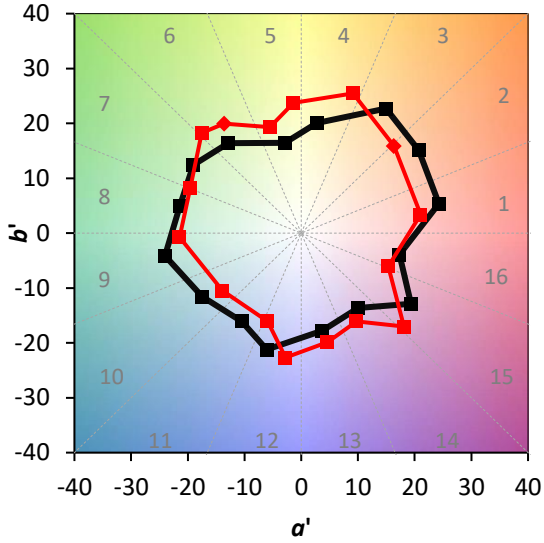
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$R_g$ = 98.3
CIE $R_a$ = 71.5
$R_9$ = -16.1

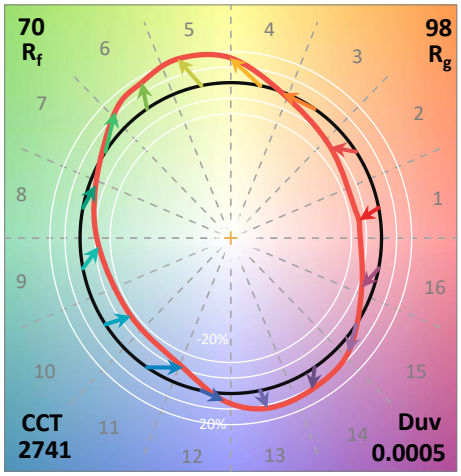
## Spectral Power Distribution Comparison

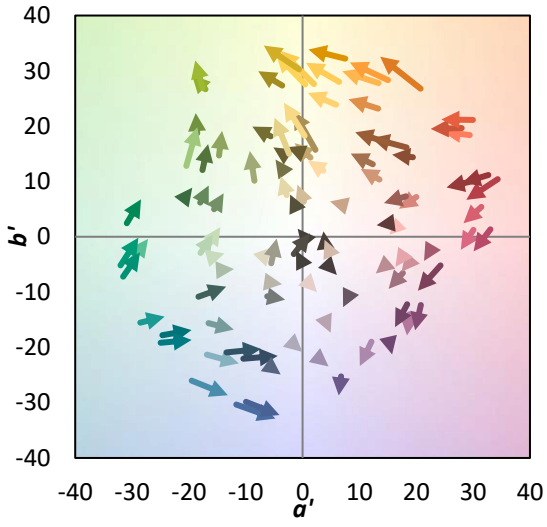



## Color Vector Graphics



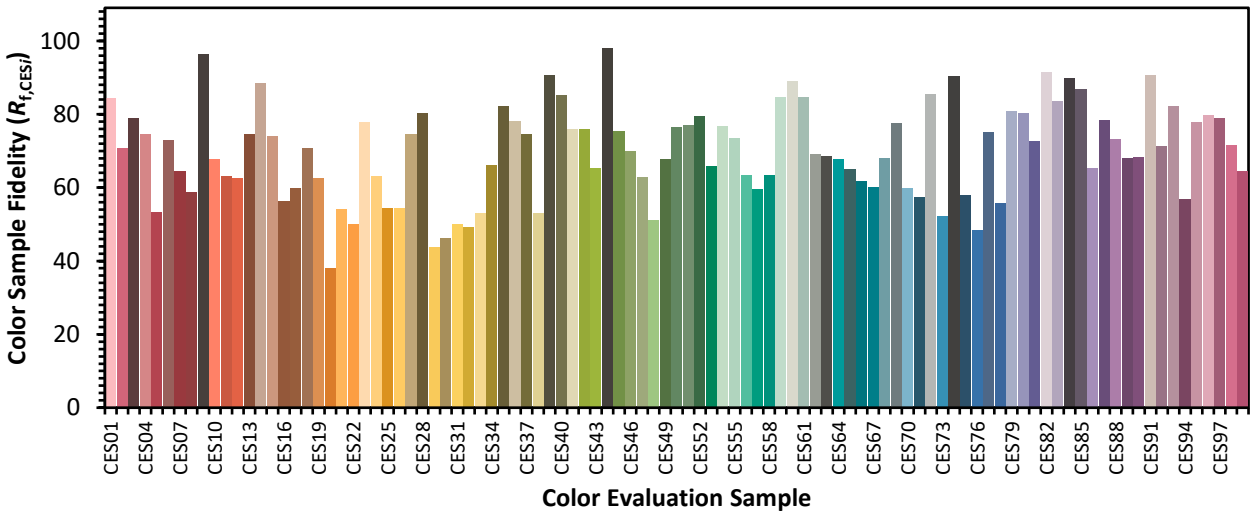
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Peachtree City, GA 30269

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

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 | |

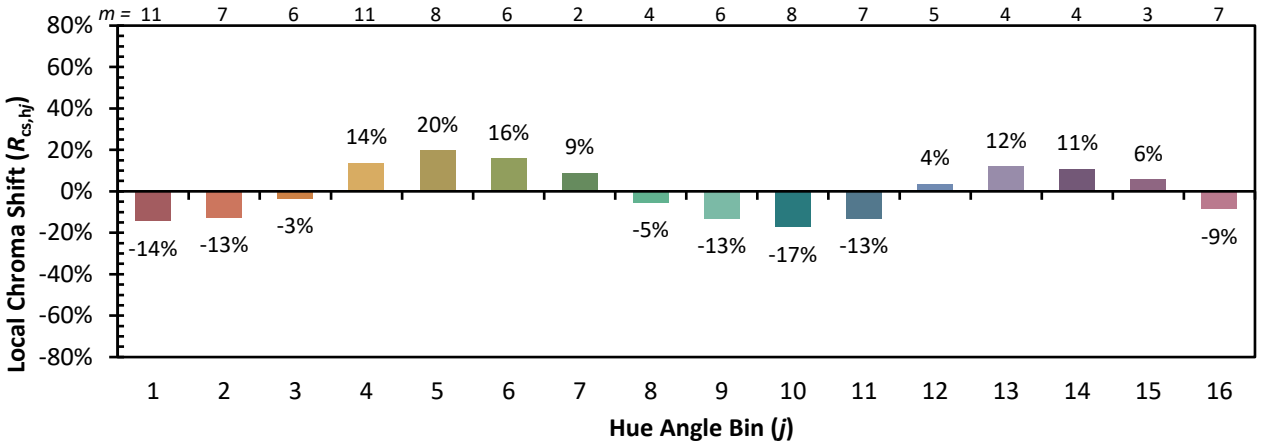


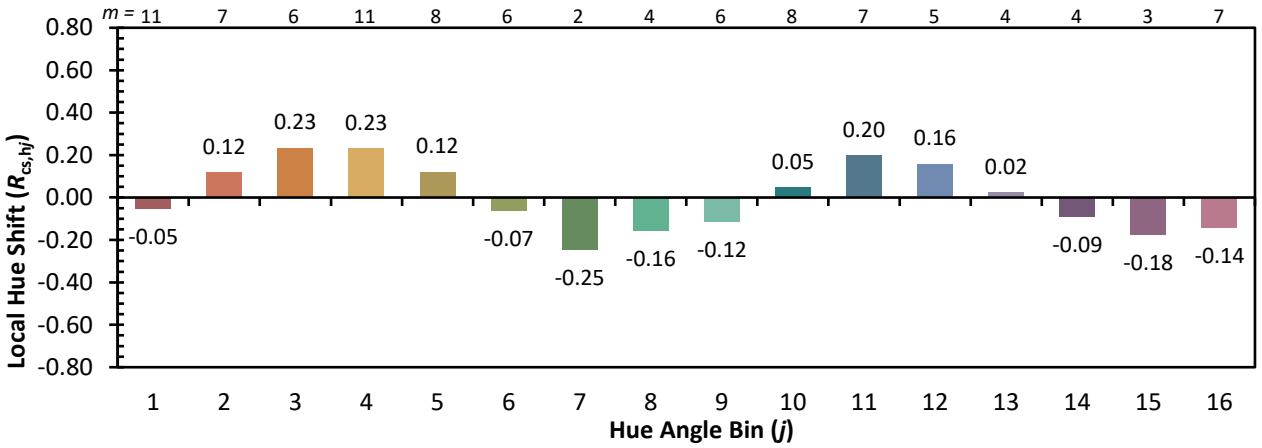
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Peachtree City, GA 30269

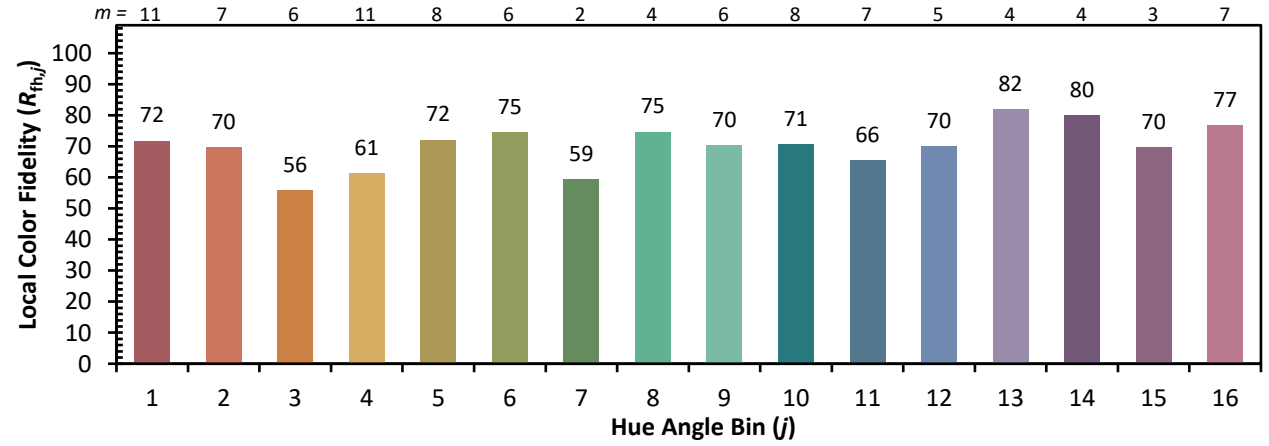
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### Color Rendition by Hue-Angle Bin



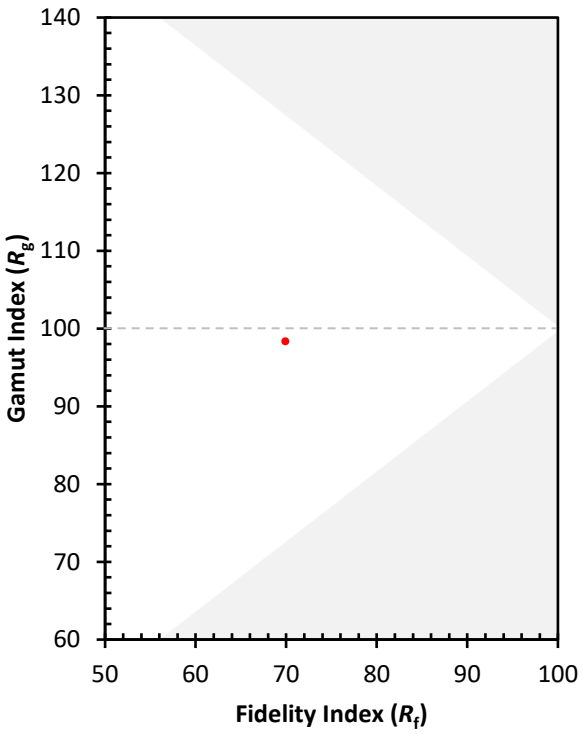



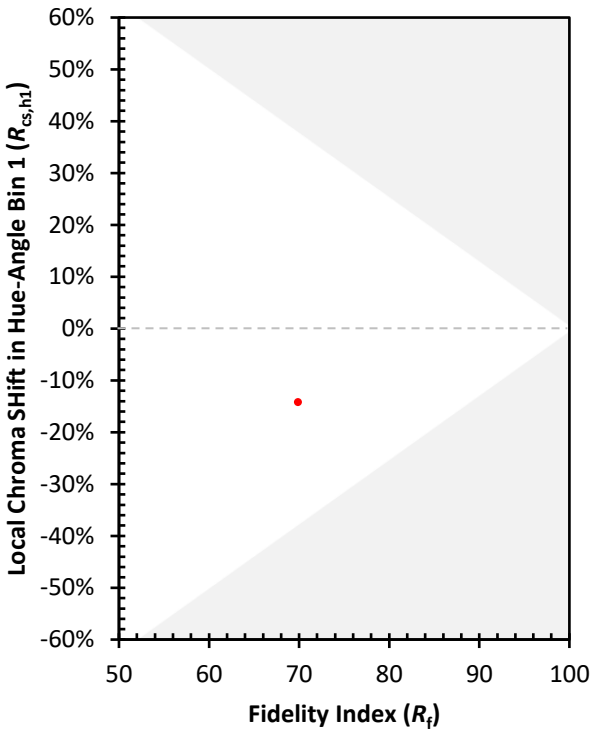
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### Measure Comparisons




(END OF REPORT)