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: P1199670

Luminaire Tested: GPC-SB2B-727-U-SLL-HSS

Issue Date: 10/30/2025

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1199670 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/13/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB2B-727-U-SLL-HSS |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOI LEFT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 7970 lumens |
| Efficiency: | N/A |
| Efficacy: | 107.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 73.9 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.627 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.988 |
| Total Harmonic Distortion (THDi): | 13.593 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

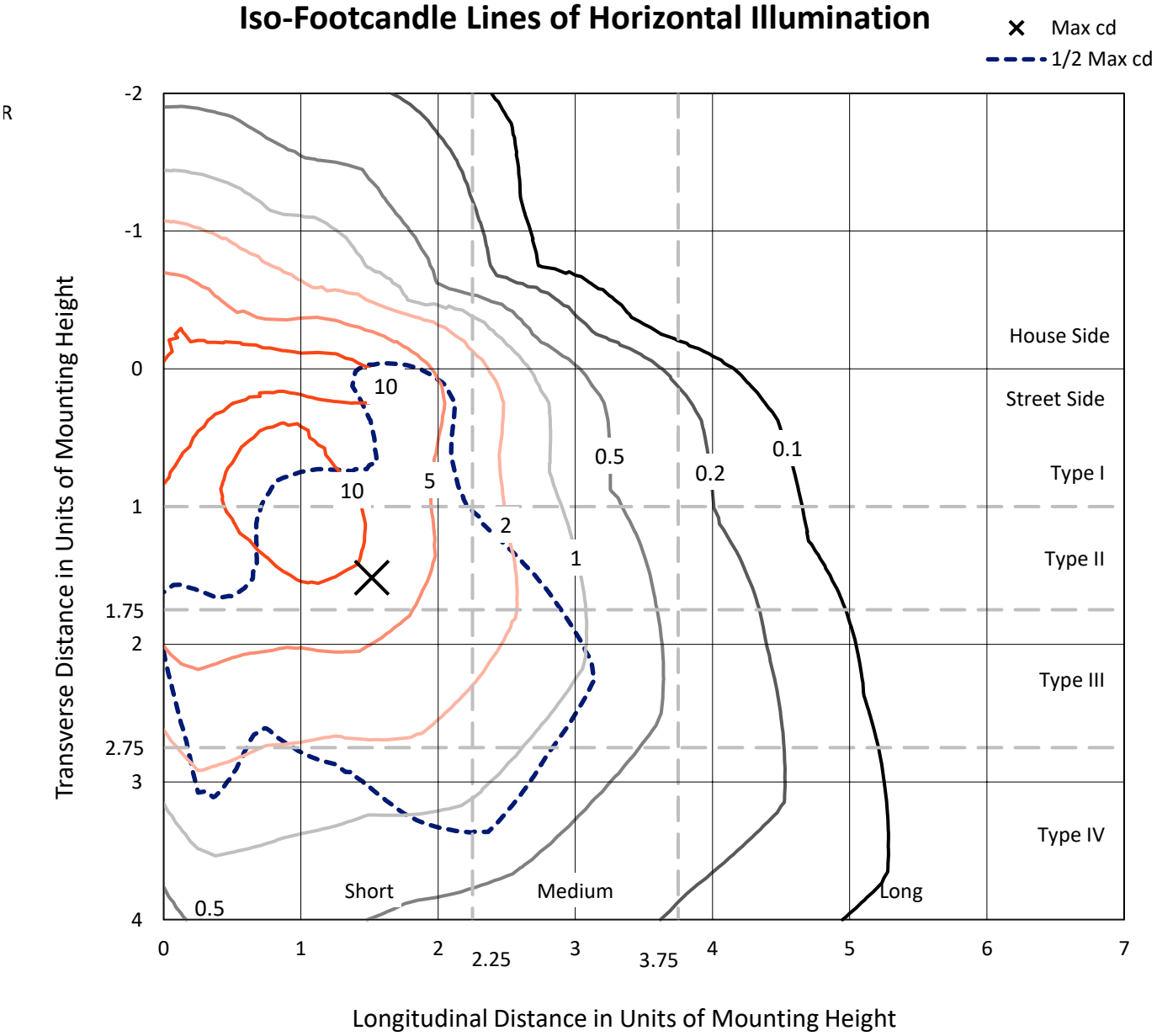


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REPORT NUMBER: P1199670
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## Iso-Footcandle Lines of Horizontal Illumination



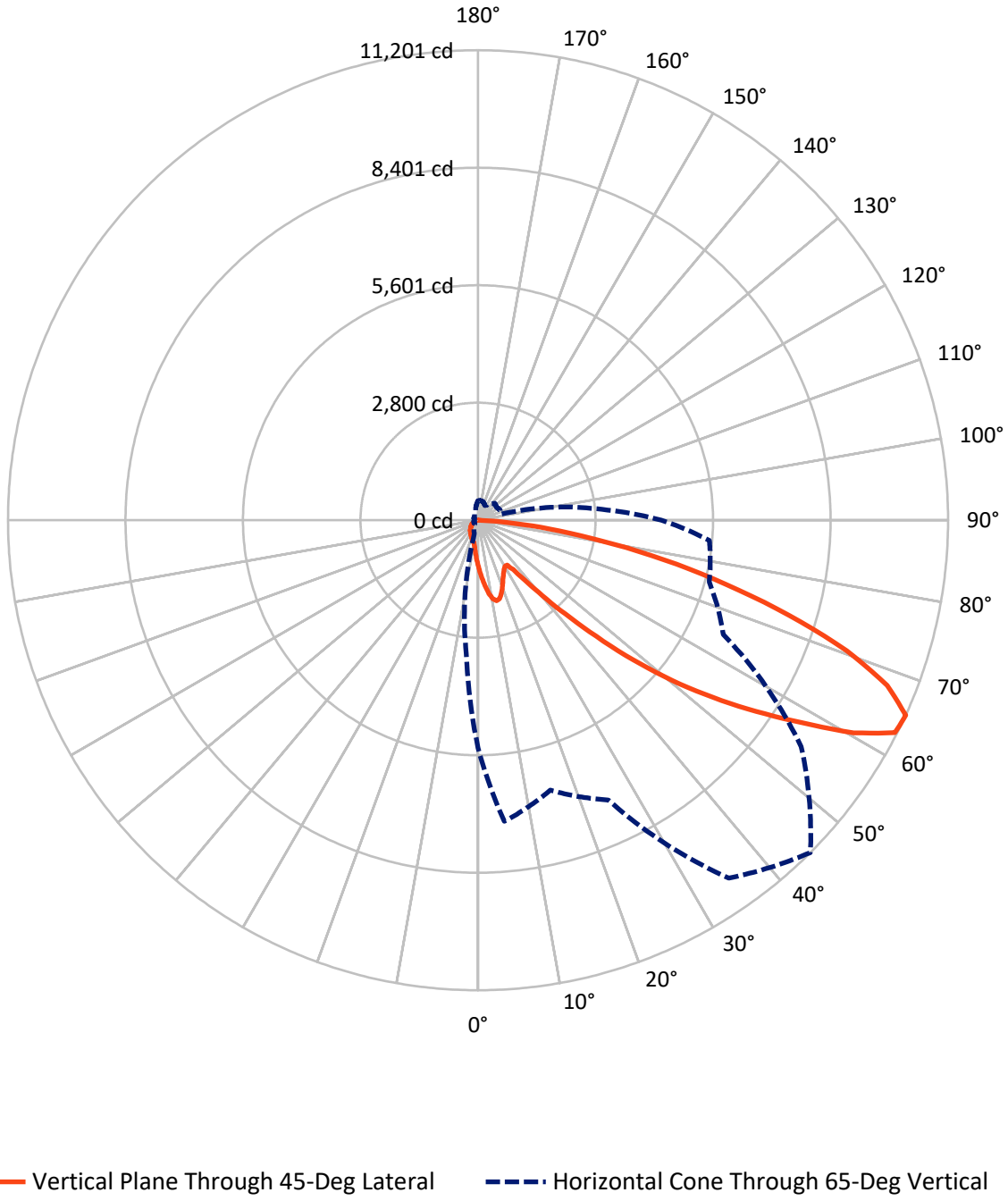

Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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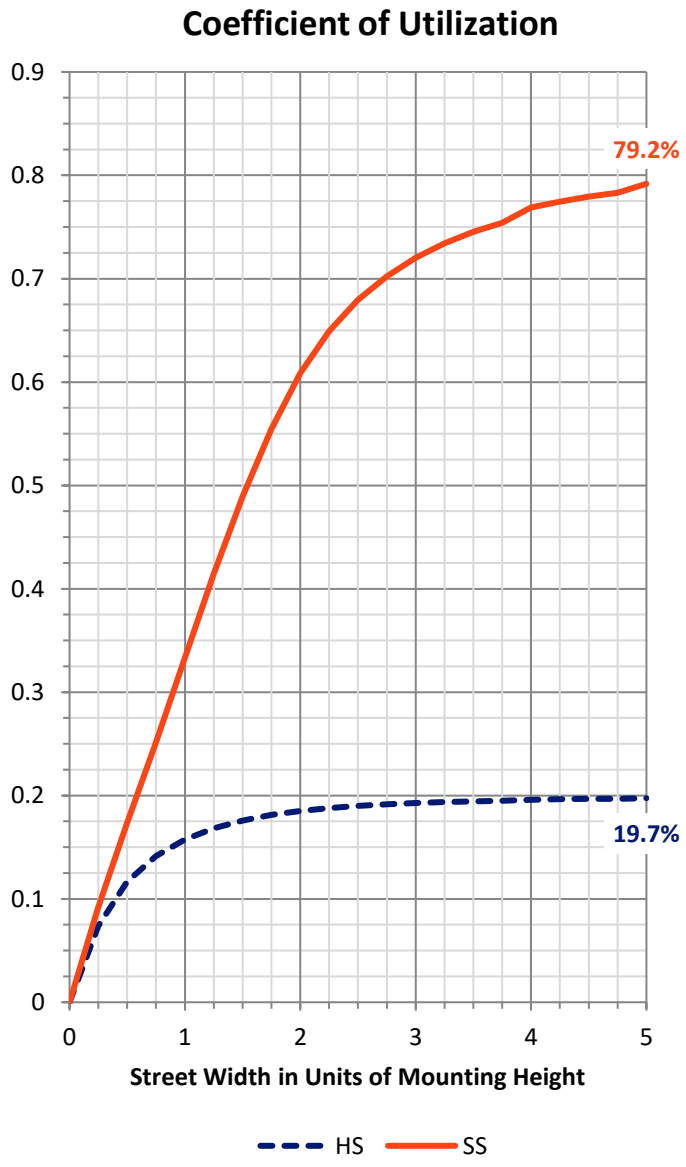
REPORT NUMBER: P1199670
CATALOG NUMBER: GPC-SB2B-727-U-SLL-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1584.2 | 0.0 | 1584.2 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| **Street Side** | Lumens | 6385.8 | 0.0 | 6385.8 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| **Total** | Lumens | 7970.0 | 0.0 | 7970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 108.7 | 1.4 |
| 10°-20° | 325.7 | 4.1 |
| 20°-30° | 479.8 | 6.0 |
| 30°-40° | 616.5 | 7.7 |
| 40°-50° | 997.0 | 12.5 |
| 50°-60° | 1748.3 | 21.9 |
| 60°-70° | 2187.6 | 27.4 |
| 70°-80° | 1278.3 | 16.0 |
| 80°-90° | 228.1 | 2.9 |
| 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° | 7970.0 | 100.0 |
| 0°-180° | 7970.0 | 100.0 |



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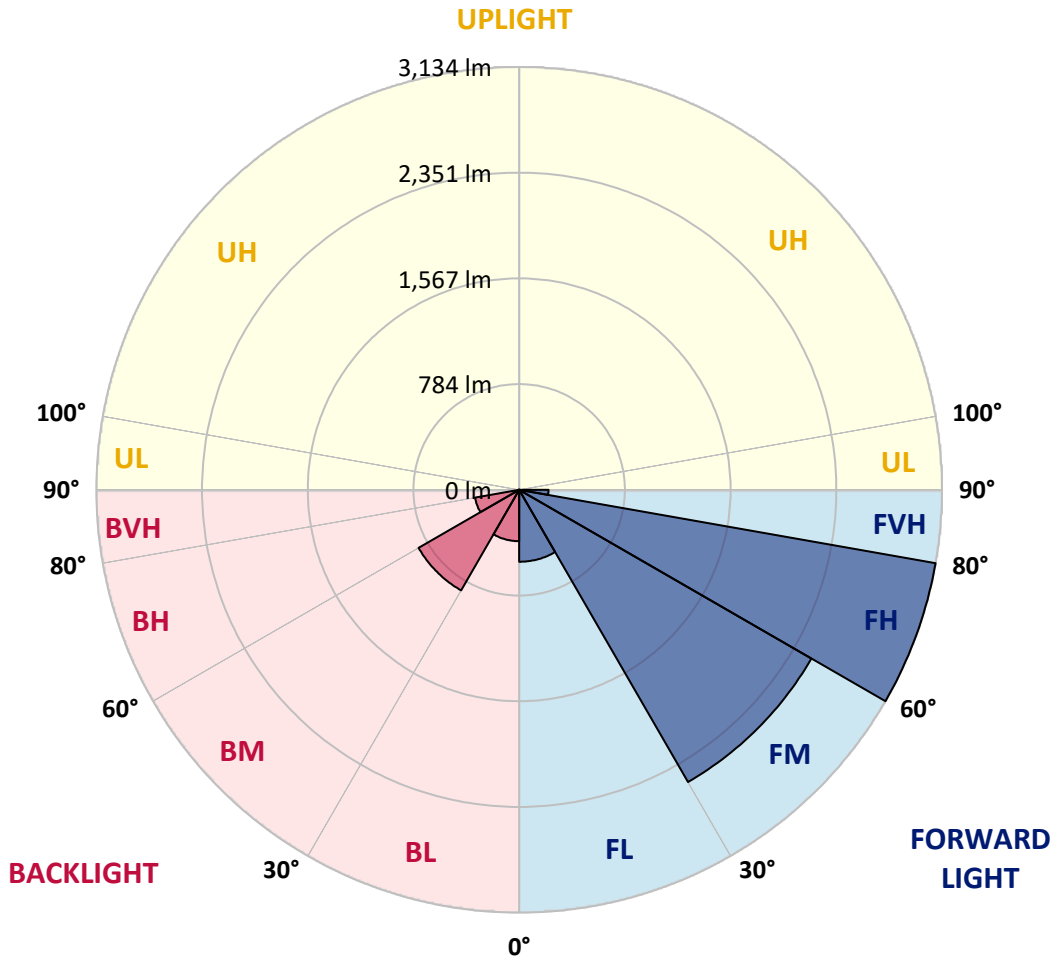
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 533.3 | 6.7 | | | |
| FM | (30°-60°) | 2501.1 | 31.4 | | | |
| FH | (60°-80°) | 3134.1 | 39.3 | | | G2/5000 |
| FVH | (80°-90°) | 217.4 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 380.9 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 860.7 | 10.8 | B1/1000 | | |
| BH | (60°-80°) | 331.9 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 |
| 2.5° | 1236.5 | 1245.8 | 1266.7 | 1277.6 | 1294.7 | 1295.8 | 1295.8 | 1280.9 | 1280.4 | 1250.2 | 1246.9 |
| 5° | 1382.0 | 1403.9 | 1453.3 | 1504.4 | 1515.4 | 1518.1 | 1512.6 | 1483.0 | 1461.0 | 1402.3 | 1389.6 |
| 7.5° | 1526.4 | 1568.6 | 1643.9 | 1711.9 | 1733.9 | 1733.9 | 1720.7 | 1672.4 | 1627.4 | 1542.3 | 1510.4 |
| 10° | 1646.1 | 1699.3 | 1801.4 | 1877.8 | 1903.0 | 1897.5 | 1870.6 | 1809.7 | 1747.6 | 1644.4 | 1602.7 |
| 12.5° | 1725.1 | 1785.0 | 1897.0 | 1958.5 | 1984.3 | 1970.0 | 1939.2 | 1879.9 | 1814.6 | 1705.9 | 1658.7 |
| 15° | 1764.6 | 1827.2 | 1924.4 | 1956.8 | 1949.7 | 1934.9 | 1931.0 | 1902.5 | 1853.0 | 1751.5 | 1699.9 |
| 17.5° | 1781.7 | 1839.9 | 1907.4 | 1887.1 | 1826.7 | 1815.2 | 1853.6 | 1889.8 | 1877.8 | 1791.0 | 1742.7 |
| 20° | 1797.6 | 1846.5 | 1866.8 | 1776.7 | 1671.3 | 1660.9 | 1734.4 | 1837.7 | 1890.4 | 1827.8 | 1783.3 |
| 22.5° | 1819.6 | 1849.7 | 1808.0 | 1660.3 | 1546.7 | 1522.5 | 1603.8 | 1759.2 | 1894.2 | 1874.5 | 1830.0 |
| 25° | 1849.7 | 1858.0 | 1743.2 | 1550.0 | 1435.8 | 1411.6 | 1487.4 | 1671.9 | 1887.6 | 1925.0 | 1887.1 |
| 27.5° | 1886.0 | 1869.0 | 1681.2 | 1457.7 | 1347.4 | 1324.9 | 1400.6 | 1587.9 | 1869.0 | 1975.5 | 1948.6 |
| 30° | 1933.2 | 1883.2 | 1619.7 | 1386.4 | 1284.2 | 1267.8 | 1340.8 | 1515.4 | 1845.9 | 2039.7 | 2024.9 |
| 32.5° | 1981.0 | 1889.3 | 1562.6 | 1344.6 | 1270.0 | 1276.0 | 1335.8 | 1476.4 | 1820.6 | 2101.2 | 2108.4 |
| 35° | 2032.6 | 1908.5 | 1534.6 | 1385.8 | 1389.1 | 1441.8 | 1466.5 | 1512.6 | 1816.8 | 2184.7 | 2212.7 |
| 37.5° | 2102.9 | 1951.3 | 1568.1 | 1590.6 | 1704.8 | 1814.1 | 1793.7 | 1690.0 | 1861.3 | 2309.3 | 2361.5 |
| 40° | 2203.9 | 2026.5 | 1714.1 | 1939.2 | 2173.7 | 2351.0 | 2273.6 | 2012.3 | 1997.4 | 2488.8 | 2566.8 |
| 42.5° | 2351.0 | 2146.2 | 1973.3 | 2365.3 | 2762.8 | 3054.9 | 2847.4 | 2427.9 | 2235.7 | 2745.2 | 2844.6 |
| 45° | 2568.5 | 2340.0 | 2286.8 | 2815.0 | 3489.2 | 3949.3 | 3517.8 | 2871.0 | 2569.6 | 3133.4 | 3211.4 |
| 47.5° | 2869.9 | 2625.0 | 2580.5 | 3288.8 | 4372.1 | 4967.3 | 4261.2 | 3281.7 | 2949.5 | 3662.7 | 3680.8 |
| 50° | 3270.1 | 3008.8 | 2858.9 | 3807.1 | 5340.1 | 6005.0 | 5004.0 | 3678.1 | 3384.9 | 4309.5 | 4288.6 |
| 52.5° | 3798.3 | 3544.1 | 3183.4 | 4300.7 | 6335.5 | 7020.7 | 5750.2 | 4026.2 | 3925.2 | 5060.0 | 5017.2 |
| 55° | 4518.7 | 4349.6 | 3627.0 | 4771.8 | 7330.4 | 8042.5 | 6467.3 | 4354.5 | 4638.9 | 5951.7 | 5692.5 |
| 57.5° | 5412.5 | 5533.3 | 4266.7 | 5318.1 | 8224.8 | 9095.6 | 7187.6 | 4813.5 | 5565.7 | 6948.8 | 6084.6 |
| 60° | 5989.0 | 7107.4 | 5491.6 | 6125.7 | 9241.1 | 10286.4 | 8174.8 | 5686.5 | 6539.7 | 7306.2 | 6009.9 |
| 62.5° | 5849.6 | 7608.2 | 6958.7 | 7156.9 | 10175.5 | 11152.3 | 9142.2 | 6563.3 | 6723.1 | 6779.7 | 5434.5 |
| 65° | 5421.9 | 7204.1 | 6659.4 | 7357.3 | 10412.2 | 11201.2 | 9400.8 | 6450.2 | 5703.0 | 5535.0 | 4368.2 |
| 67.5° | 4833.3 | 6724.8 | 5948.4 | 6825.8 | 9984.5 | 10518.1 | 8919.3 | 5705.7 | 4407.2 | 4153.6 | 3169.1 |
| 70° | 4198.0 | 6194.4 | 5481.7 | 6229.5 | 9169.1 | 9327.8 | 8100.7 | 5018.3 | 3241.6 | 2805.1 | 2033.7 |
| 72.5° | 3595.2 | 5642.0 | 5162.2 | 5618.4 | 8081.5 | 7753.1 | 7035.0 | 4410.5 | 2360.4 | 2023.2 | 1445.6 |
| 75° | 2978.6 | 4827.2 | 4707.0 | 4892.6 | 6651.2 | 6107.1 | 5845.2 | 3651.7 | 1852.5 | 1463.8 | 997.6 |
| 77.5° | 2298.3 | 3772.0 | 4048.7 | 3918.0 | 4681.7 | 4536.2 | 4530.8 | 2744.2 | 1353.4 | 976.8 | 625.4 |
| 80° | 1573.0 | 2628.9 | 3163.1 | 2763.9 | 3038.4 | 2964.3 | 3412.3 | 1841.0 | 981.7 | 588.0 | 348.1 |
| 82.5° | 924.6 | 1600.5 | 2201.7 | 1338.0 | 1680.1 | 1724.6 | 2032.0 | 895.5 | 577.6 | 135.6 | 75.8 |
| 85° | 375.0 | 632.0 | 860.9 | 523.8 | 810.4 | 683.6 | 771.4 | 251.5 | 160.9 | 3.3 | 0.0 |
| 87.5° | 94.4 | 202.1 | 141.7 | 58.7 | 93.9 | 86.2 | 68.1 | 30.7 | 6.6 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 |
| 2.5° | 1225.5 | 1212.9 | 1181.6 | 1150.3 | 1125.0 | 1091.0 | 1068.5 | 1041.5 | 1015.7 | 992.7 | 988.3 |
| 5° | 1355.1 | 1313.3 | 1256.2 | 1204.1 | 1150.8 | 1099.2 | 1048.1 | 994.3 | 944.9 | 914.7 | 895.5 |
| 7.5° | 1460.5 | 1386.9 | 1311.1 | 1244.7 | 1180.5 | 1120.1 | 1052.5 | 987.2 | 909.8 | 868.6 | 831.3 |
| 10° | 1539.0 | 1442.4 | 1343.0 | 1266.7 | 1201.9 | 1143.1 | 1086.0 | 1020.1 | 926.8 | 875.2 | 819.2 |
| 12.5° | 1590.6 | 1475.8 | 1359.4 | 1272.1 | 1199.7 | 1154.1 | 1128.8 | 1103.0 | 1010.3 | 949.9 | 868.6 |
| 15° | 1626.3 | 1499.5 | 1371.0 | 1259.5 | 1170.6 | 1137.1 | 1162.3 | 1192.0 | 1132.7 | 1063.0 | 957.0 |
| 17.5° | 1665.3 | 1530.2 | 1375.9 | 1225.5 | 1114.0 | 1099.7 | 1165.1 | 1233.7 | 1231.0 | 1161.8 | 1058.0 |
| 20° | 1706.4 | 1557.1 | 1372.6 | 1170.6 | 1045.4 | 1058.0 | 1141.5 | 1221.1 | 1254.6 | 1217.2 | 1125.0 |
| 22.5° | 1748.7 | 1582.9 | 1360.0 | 1099.2 | 981.2 | 1020.7 | 1104.1 | 1173.9 | 1213.4 | 1201.9 | 1131.6 |
| 25° | 1802.0 | 1619.1 | 1341.3 | 1022.3 | 927.9 | 982.8 | 1060.8 | 1117.3 | 1144.8 | 1144.2 | 1095.9 |
| 27.5° | 1865.7 | 1667.5 | 1331.4 | 960.3 | 890.0 | 940.0 | 1009.2 | 1059.7 | 1078.9 | 1078.9 | 1040.4 |
| 30° | 1939.8 | 1724.6 | 1320.5 | 919.7 | 868.0 | 895.5 | 949.3 | 998.7 | 1017.9 | 1017.9 | 985.5 |
| 32.5° | 2022.2 | 1779.5 | 1294.1 | 895.0 | 851.6 | 852.1 | 886.2 | 931.2 | 954.2 | 957.5 | 934.5 |
| 35° | 2121.0 | 1838.2 | 1236.5 | 875.2 | 832.4 | 809.8 | 826.3 | 863.7 | 891.1 | 898.2 | 884.0 |
| 37.5° | 2250.6 | 1910.1 | 1154.1 | 846.1 | 802.7 | 765.4 | 769.2 | 797.8 | 828.0 | 838.9 | 829.6 |
| 40° | 2424.6 | 1994.7 | 1068.5 | 804.4 | 761.0 | 716.5 | 714.9 | 735.7 | 765.4 | 777.5 | 772.5 |
| 42.5° | 2654.7 | 2096.3 | 986.6 | 764.3 | 710.5 | 664.9 | 662.2 | 678.6 | 704.4 | 717.1 | 714.9 |
| 45° | 2948.9 | 2220.9 | 916.4 | 733.0 | 661.1 | 616.0 | 614.9 | 628.7 | 651.2 | 664.4 | 661.6 |
| 47.5° | 3358.0 | 2345.5 | 868.6 | 716.5 | 622.1 | 576.0 | 578.1 | 590.2 | 610.5 | 619.9 | 616.0 |
| 50° | 3891.1 | 2383.4 | 844.4 | 716.5 | 601.2 | 540.3 | 551.2 | 561.1 | 576.5 | 582.0 | 577.1 |
| 52.5° | 4402.8 | 2258.2 | 822.5 | 720.9 | 604.0 | 510.1 | 533.7 | 540.8 | 554.0 | 556.2 | 549.0 |
| 55° | 4653.7 | 1941.4 | 792.3 | 722.0 | 621.0 | 484.3 | 519.4 | 532.6 | 537.5 | 537.0 | 524.9 |
| 57.5° | 4567.5 | 1569.7 | 741.2 | 717.6 | 632.5 | 467.8 | 501.8 | 527.1 | 530.4 | 525.4 | 502.9 |
| 60° | 4265.0 | 1155.7 | 702.2 | 685.2 | 628.1 | 462.8 | 474.9 | 515.0 | 520.0 | 513.4 | 476.6 |
| 62.5° | 3757.7 | 802.2 | 672.0 | 613.8 | 608.9 | 461.2 | 432.7 | 488.7 | 500.7 | 491.4 | 437.6 |
| 65° | *2958.3* | *566.6* | *578.7* | *538.1* | *567.2* | *452.4* | *388.7* | *456.8* | *473.3* | *459.0* | *383.2* |
| 67.5° | 2001.8 | 409.0 | 468.9 | 487.6 | 499.6 | 432.7 | 356.9 | 420.6 | 442.5 | 423.9 | 320.1 |
| 70° | 1081.1 | 287.2 | 309.7 | 410.7 | 424.4 | 398.6 | 328.3 | 383.8 | 409.0 | 388.7 | 260.8 |
| 72.5° | 638.5 | 206.4 | 216.9 | 330.0 | 353.6 | 350.8 | 296.5 | 341.0 | 371.7 | 347.5 | 211.9 |
| 75° | 351.9 | 139.5 | 154.8 | 239.4 | 287.2 | 270.7 | 254.8 | 288.8 | 320.1 | 296.5 | 163.6 |
| 77.5° | 157.6 | 83.5 | 107.6 | 157.0 | 225.7 | 185.6 | 197.1 | 225.1 | 254.2 | 229.5 | 109.3 |
| 80° | 60.9 | 46.7 | 71.4 | 85.7 | 164.2 | 102.7 | 126.8 | 165.8 | 186.7 | 166.9 | 66.4 |
| 82.5° | 7.7 | 20.9 | 30.7 | 33.5 | 95.5 | 54.4 | 73.6 | 104.3 | 102.7 | 88.9 | 33.5 |
| 85° | 0.0 | 3.8 | 4.4 | 2.2 | 41.2 | 19.8 | 24.2 | 34.0 | 31.8 | 24.2 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 |
| 2.5° | 961.4 | 941.6 | 931.7 | 923.5 | 931.2 | 935.6 | 935.6 | 954.2 | 965.2 | 969.6 | 1000.4 |
| 5° | 847.2 | 810.4 | 785.7 | 770.9 | 775.8 | 781.3 | 787.3 | 810.9 | 826.9 | 837.3 | 885.1 |
| 7.5° | 757.1 | 701.1 | 666.5 | 648.4 | 651.2 | 655.0 | 660.0 | 683.0 | 698.9 | 712.7 | 765.9 |
| 10° | 712.7 | 633.6 | 588.0 | 566.1 | 562.2 | 560.0 | 558.4 | 572.1 | 584.2 | 595.2 | 647.9 |
| 12.5° | 714.9 | 604.5 | 549.0 | 522.1 | 510.6 | 497.4 | 487.0 | 489.2 | 496.9 | 510.6 | 544.1 |
| 15° | 742.9 | 595.2 | 528.7 | 495.2 | 476.0 | 460.7 | 448.0 | 445.3 | 448.0 | 450.2 | 471.1 |
| 17.5° | 780.7 | 594.1 | 511.2 | 469.4 | 449.7 | 437.0 | 425.5 | 421.7 | 422.2 | 425.0 | 430.5 |
| 20° | 810.9 | 590.8 | 491.4 | 444.7 | 427.2 | 416.2 | 404.6 | 400.8 | 401.9 | 402.5 | 408.5 |
| 22.5° | 826.9 | 585.8 | 469.4 | 420.0 | 405.2 | 394.2 | 383.8 | 383.2 | 383.2 | 386.5 | 390.9 |
| 25° | 826.9 | 575.4 | 449.7 | 396.4 | 383.2 | 373.4 | 360.7 | 362.9 | 364.0 | 368.4 | 375.0 |
| 27.5° | 807.1 | 555.6 | 433.7 | 376.1 | 362.4 | 352.5 | 341.0 | 343.7 | 345.4 | 350.3 | 358.5 |
| 30° | 781.8 | 532.0 | 415.6 | 356.9 | 341.0 | 333.8 | 323.9 | 325.0 | 327.2 | 332.7 | 342.1 |
| 32.5° | 754.9 | 504.0 | 400.8 | 337.7 | 321.7 | 316.3 | 305.3 | 306.9 | 309.1 | 315.2 | 325.6 |
| 35° | 725.3 | 471.1 | 383.2 | 320.1 | 304.2 | 299.8 | 287.2 | 288.3 | 291.5 | 298.1 | 308.6 |
| 37.5° | 694.0 | 444.2 | 365.7 | 303.1 | 286.6 | 282.2 | 269.0 | 270.1 | 274.0 | 281.7 | 291.5 |
| 40° | 663.3 | 417.8 | 347.0 | 285.0 | 268.5 | 264.6 | 250.4 | 251.5 | 255.9 | 264.1 | 274.5 |
| 42.5° | 629.8 | 397.5 | 322.8 | 266.3 | 248.7 | 244.9 | 231.7 | 233.3 | 238.3 | 246.5 | 257.0 |
| 45° | 589.7 | 384.3 | 295.9 | 248.7 | 229.0 | 225.1 | 213.0 | 216.3 | 221.8 | 230.1 | 241.0 |
| 47.5° | 548.5 | 378.8 | 273.4 | 230.1 | 208.6 | 205.3 | 195.5 | 201.0 | 207.0 | 213.6 | 225.7 |
| 50° | 509.0 | 371.7 | 250.4 | 212.5 | 191.1 | 187.8 | 181.2 | 188.3 | 194.4 | 200.4 | 211.9 |
| 52.5° | 463.9 | 356.3 | 229.5 | 197.1 | 176.2 | 175.1 | 171.9 | 178.4 | 183.9 | 189.4 | 199.3 |
| 55° | 417.3 | 331.6 | 211.4 | 183.4 | 163.6 | 164.7 | 163.1 | 168.6 | 173.0 | 177.9 | 186.7 |
| 57.5° | 376.6 | 300.3 | 197.1 | 168.6 | 152.6 | 155.9 | 153.7 | 156.5 | 159.2 | 165.3 | 172.4 |
| 60° | 335.5 | 263.0 | 181.2 | 151.0 | 141.7 | 145.5 | 139.5 | 138.9 | 140.0 | 141.7 | 154.8 |
| 62.5° | 280.0 | 224.0 | 161.4 | 135.6 | 129.6 | 131.2 | 119.7 | 110.9 | 110.9 | 112.6 | 132.3 |
| 65° | *225.1* | *187.8* | *139.5* | *118.0* | *113.1* | *112.0* | *95.5* | *83.5* | *82.4* | *87.3* | *104.3* |
| 67.5° | 185.0 | 155.9 | 117.5 | 98.3 | 95.0 | 96.1 | 84.0 | 71.9 | 70.8 | 76.3 | 88.9 |
| 70° | 153.2 | 125.7 | 93.9 | 75.8 | 79.1 | 84.0 | 71.9 | 60.4 | 58.7 | 63.7 | 75.8 |
| 72.5° | 121.9 | 98.3 | 71.9 | 56.0 | 65.3 | 71.4 | 58.7 | 47.8 | 46.7 | 51.1 | 62.6 |
| 75° | 89.5 | 70.3 | 48.9 | 40.6 | 50.5 | 56.0 | 42.8 | 34.0 | 32.4 | 36.2 | 47.8 |
| 77.5° | 55.5 | 39.5 | 30.7 | 24.2 | 34.6 | 37.3 | 22.5 | 19.8 | 19.2 | 22.0 | 30.2 |
| 80° | 25.8 | 17.0 | 14.8 | 8.2 | 12.6 | 14.8 | 9.3 | 10.4 | 11.0 | 13.2 | 18.7 |
| 82.5° | 7.1 | 2.7 | 0.5 | 0.0 | 0.0 | 4.4 | 2.2 | 4.4 | 5.5 | 8.2 | 12.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.7 | 4.9 | 8.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 4.4 |
| 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: P1199670
CATALOG NUMBER: GPC-SB2B-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 | 1103.6 |
| 2.5° | 1023.4 | 1045.4 | 1080.5 | 1116.8 | 1152.5 | 1188.7 | 1223.8 | 1236.5 |
| 5° | 928.4 | 979.0 | 1048.7 | 1123.4 | 1200.2 | 1278.2 | 1349.6 | 1382.0 |
| 7.5° | 822.5 | 895.0 | 999.8 | 1116.8 | 1239.2 | 1361.6 | 1474.2 | 1526.4 |
| 10° | 709.4 | 801.1 | 920.8 | 1078.9 | 1254.6 | 1423.7 | 1578.5 | 1646.1 |
| 12.5° | 601.8 | 697.8 | 830.2 | 1019.6 | 1242.5 | 1459.4 | 1645.5 | 1725.1 |
| 15° | 511.7 | 596.8 | 739.6 | 949.3 | 1203.5 | 1461.6 | 1677.3 | 1764.6 |
| 17.5° | 444.2 | 499.6 | 647.3 | 871.3 | 1152.5 | 1441.3 | 1688.3 | 1781.7 |
| 20° | 410.7 | 426.1 | 527.6 | 771.4 | 1104.7 | 1422.0 | 1699.3 | 1797.6 |
| 22.5° | 390.9 | 394.8 | 431.6 | 642.4 | 1047.6 | 1416.0 | 1718.5 | 1819.6 |
| 25° | 375.0 | 376.1 | 386.0 | 509.0 | 960.3 | 1412.2 | 1748.2 | 1849.7 |
| 27.5° | 359.1 | 359.1 | 364.6 | 410.1 | 841.7 | 1395.7 | 1786.6 | 1886.0 |
| 30° | 343.2 | 343.2 | 347.0 | 362.9 | 702.8 | 1363.3 | 1832.7 | 1933.2 |
| 32.5° | 326.7 | 326.7 | 330.0 | 341.5 | 561.1 | 1322.7 | 1875.0 | 1981.0 |
| 35° | 310.2 | 309.1 | 313.5 | 325.6 | 446.4 | 1271.1 | 1917.3 | 2032.6 |
| 37.5° | 292.6 | 292.1 | 296.5 | 310.2 | 385.4 | 1211.2 | 1949.1 | 2102.9 |
| 40° | 274.0 | 274.0 | 278.9 | 293.7 | 367.9 | 1136.0 | 1999.6 | 2203.9 |
| 42.5° | 257.0 | 255.9 | 261.3 | 279.5 | 354.7 | 1064.1 | 2090.2 | 2351.0 |
| 45° | 240.5 | 238.3 | 243.2 | 265.7 | 331.6 | 1038.8 | 2259.3 | 2568.5 |
| 47.5° | 225.1 | 219.6 | 224.0 | 249.3 | 310.8 | 1133.2 | 2536.1 | 2869.9 |
| 50° | 212.5 | 202.1 | 205.9 | 232.8 | 294.8 | 1338.0 | 2895.1 | 3270.1 |
| 52.5° | 199.3 | 185.6 | 187.8 | 212.5 | 280.6 | 1532.9 | 3284.4 | 3798.3 |
| 55° | 185.6 | 170.2 | 171.3 | 192.2 | 260.2 | 1562.0 | 3664.4 | 4518.7 |
| 57.5° | 170.2 | 155.9 | 155.9 | 173.5 | 245.4 | 1354.0 | 3956.5 | 5412.5 |
| 60° | 153.2 | 143.9 | 141.1 | 158.7 | 258.6 | 955.3 | 3990.5 | 5989.0 |
| 62.5° | 134.5 | 129.6 | 125.7 | 144.4 | 268.5 | 566.1 | 3716.5 | 5849.6 |
| 65° | *113.1* | *112.0* | *109.3* | *158.7* | *226.2* | *334.4* | *3190.5* | *5421.9* |
| 67.5° | 95.0 | 93.3 | 93.3 | 166.4 | 171.9 | 210.3 | 2492.7 | 4833.3 |
| 70° | 81.8 | 75.8 | 75.8 | 125.7 | 104.3 | 145.5 | 1740.5 | 4198.0 |
| 72.5° | 68.6 | 62.0 | 57.7 | 100.5 | 78.0 | 106.5 | 1087.7 | 3595.2 |
| 75° | 54.9 | 50.0 | 44.5 | 66.4 | 58.2 | 80.7 | 632.0 | 2978.6 |
| 77.5° | 39.5 | 37.3 | 31.3 | 48.9 | 42.3 | 58.2 | 376.1 | 2298.3 |
| 80° | 20.3 | 20.9 | 19.8 | 28.0 | 28.6 | 39.5 | 214.1 | 1573.0 |
| 82.5° | 12.1 | 9.3 | 10.4 | 13.7 | 16.5 | 22.5 | 80.7 | 924.6 |
| 85° | 7.7 | 4.9 | 4.9 | 6.6 | 8.2 | 8.8 | 24.7 | 375.0 |
| 87.5° | 3.8 | 1.6 | 2.2 | 3.3 | 2.7 | 2.2 | 1.1 | 94.4 |
| 90° | 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-79-2008: 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

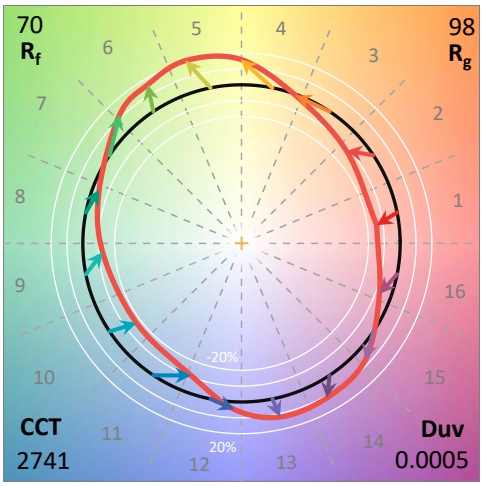
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-1-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| 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

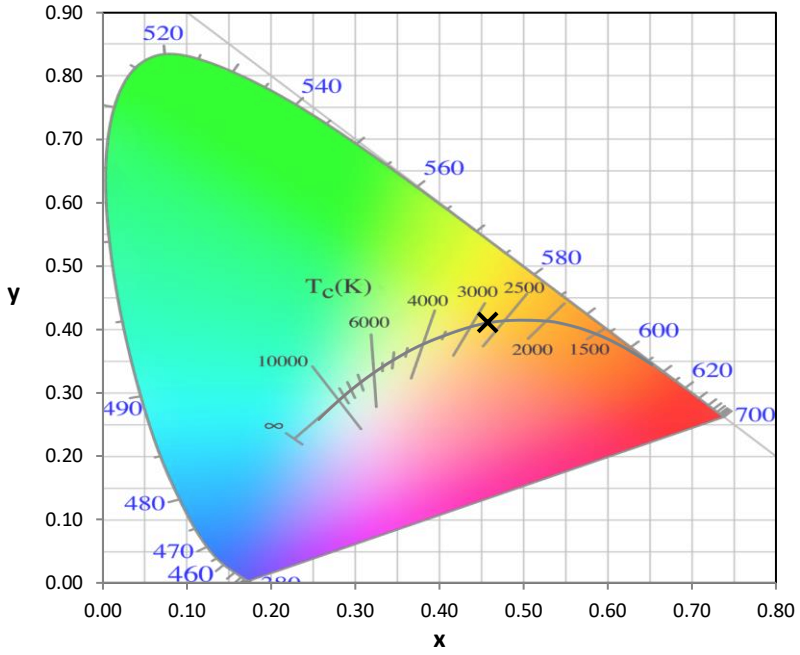
REPORT NUMBER: SP1-1908-441-1-R4

| 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 |

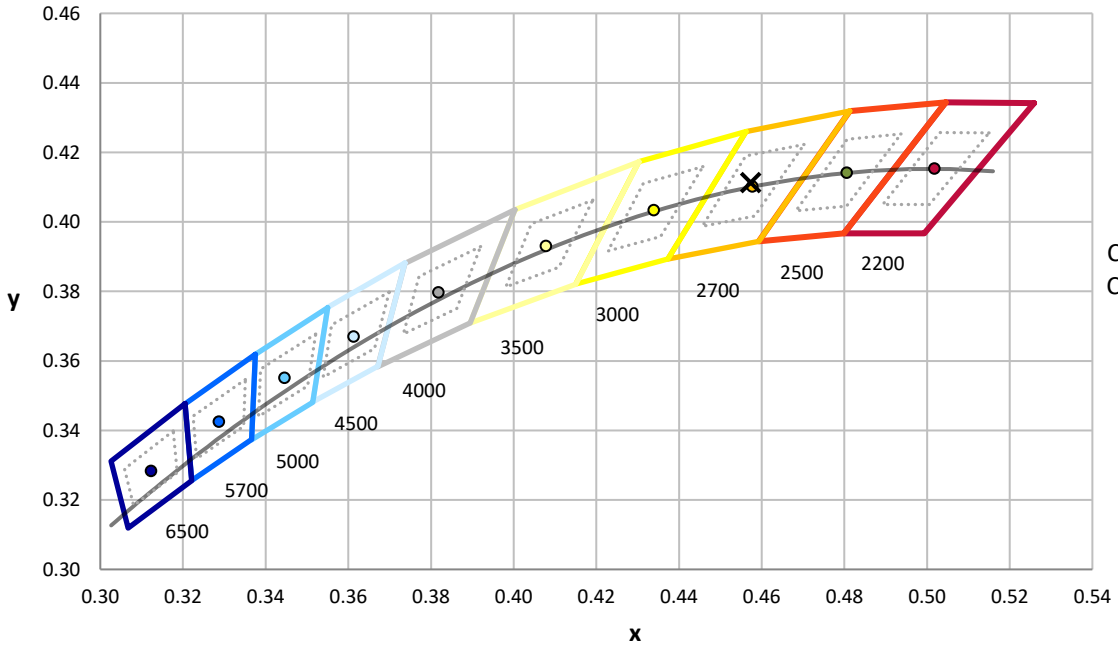
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

## CIE 1931 Chromaticity Diagram




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



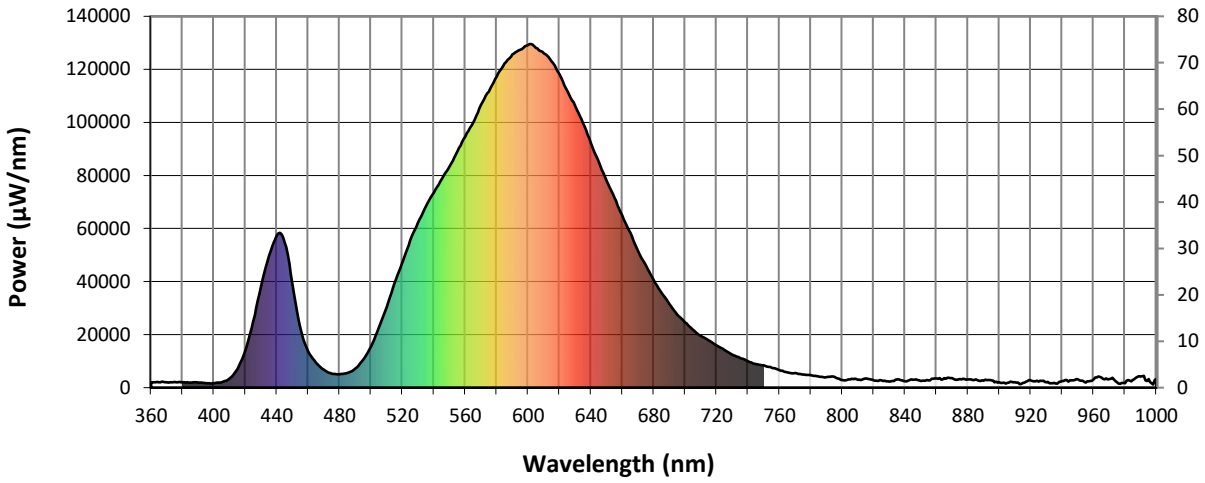

CCT = 2741K
CIE x = 0.4573
CIE y = 0.4113
Duv = 0.0005

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



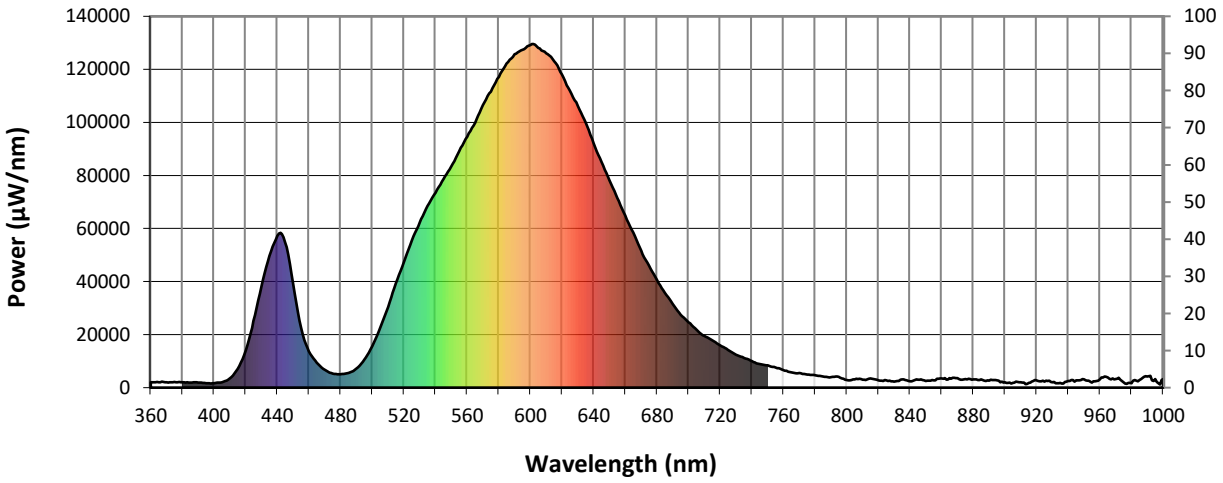

######

| 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



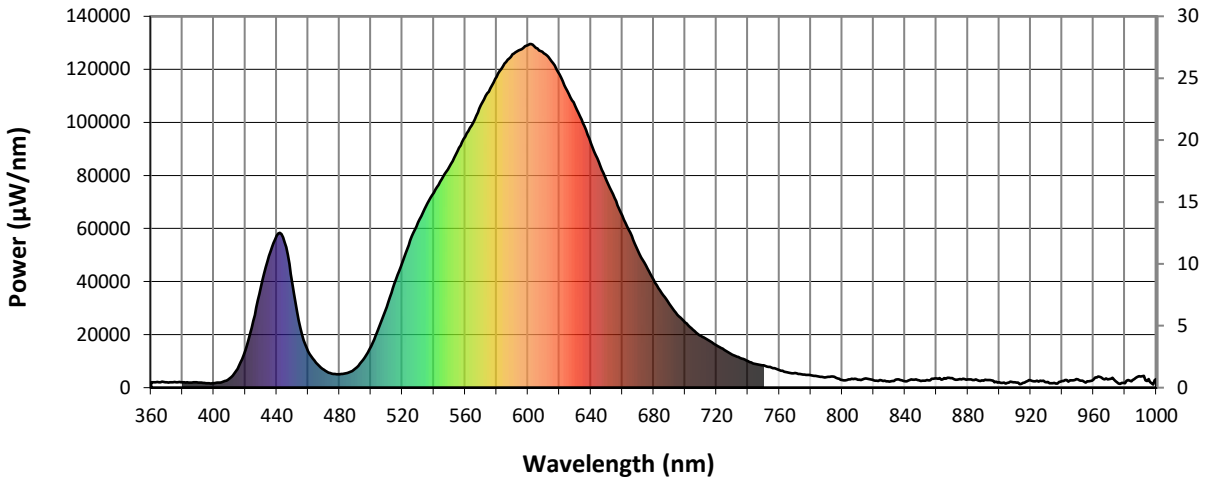

**Scotopic Lumens: 6474.3** **S/P: 1.04**

| 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 | | | |

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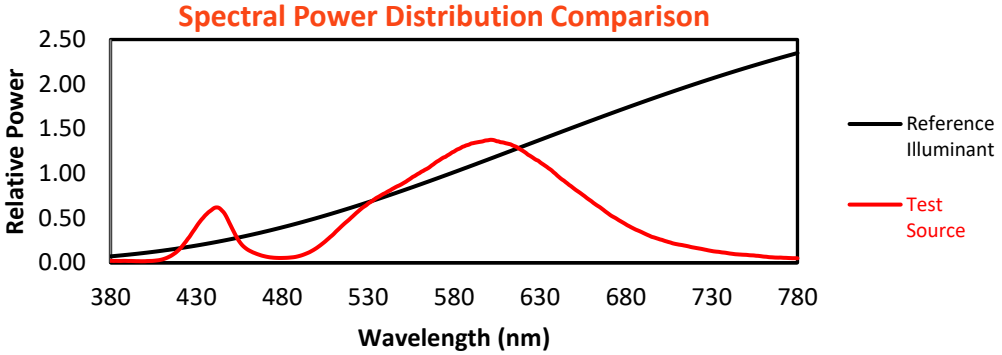
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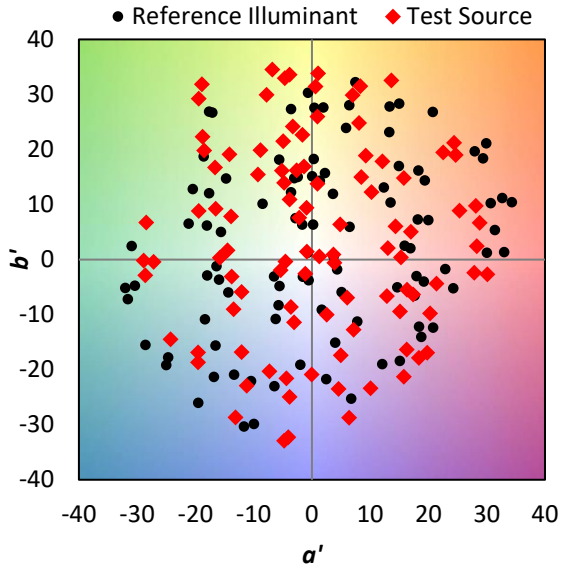
## Summary

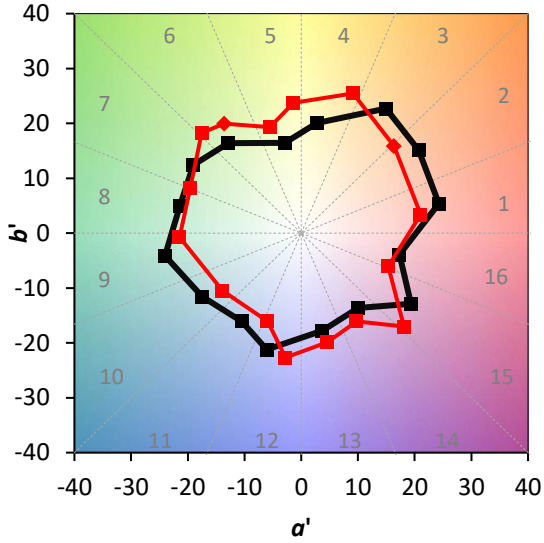
$R_f$ = 69.9
$R_g$ = 98.3
CIE $R_a$ = 71.5
$R_9$ = -16.1

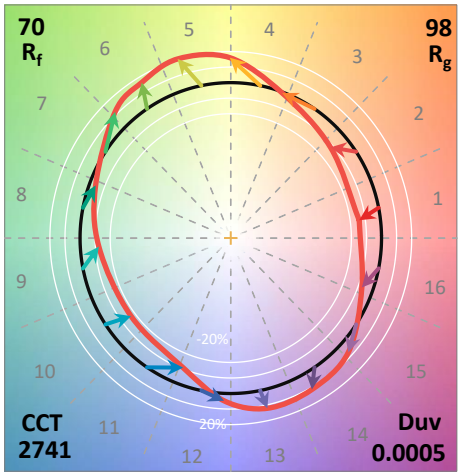
## Spectral Power Distribution Comparison

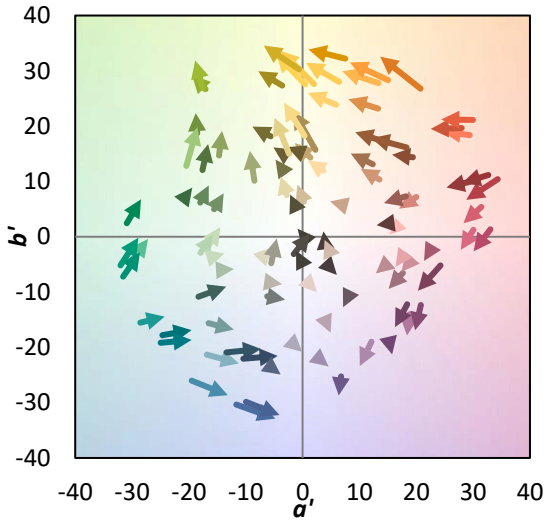



## Color Vector Graphics



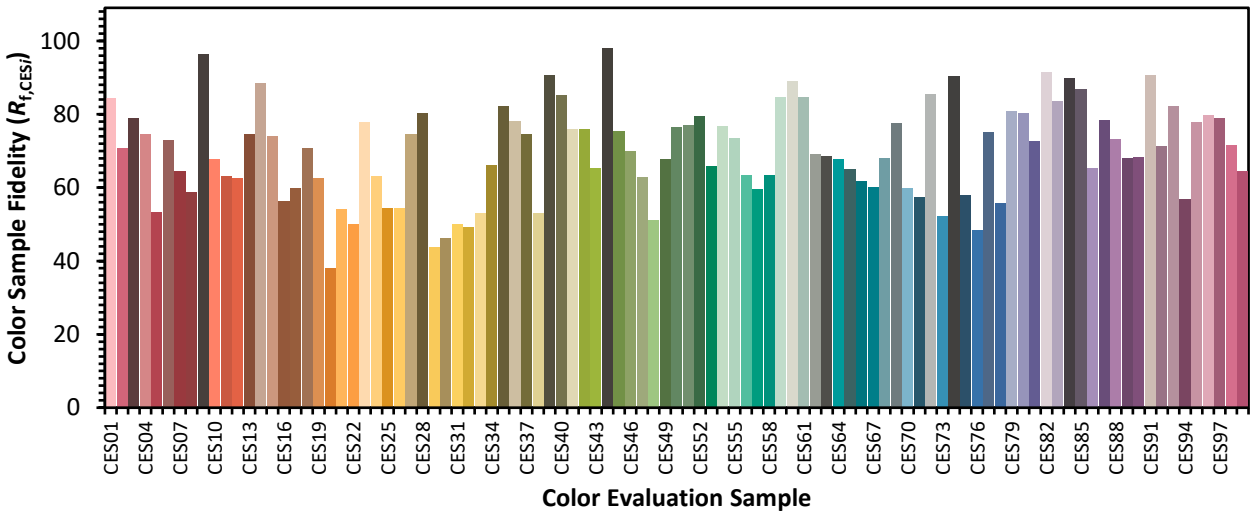
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**Individual Sample Fidelity Index ($R_{f,i}$)**

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

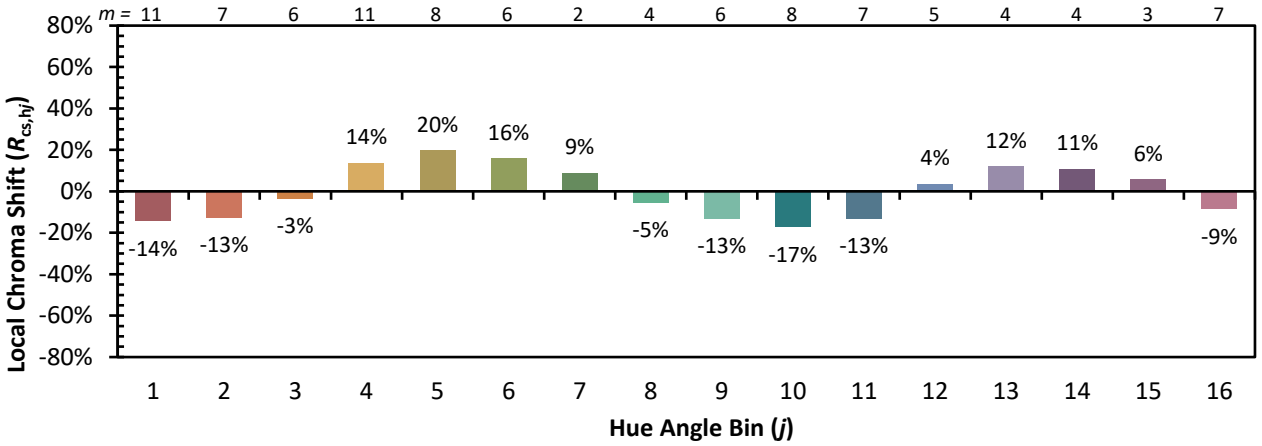


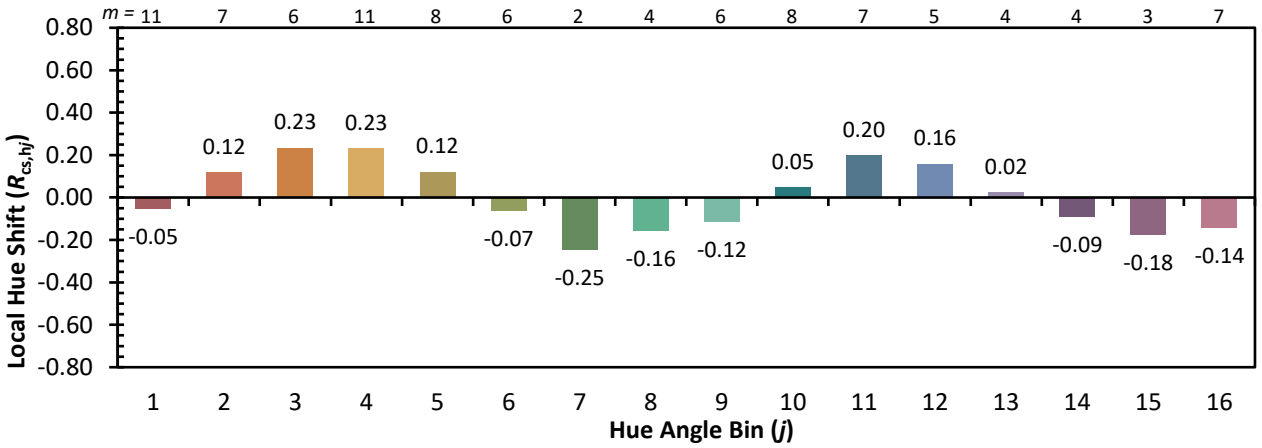
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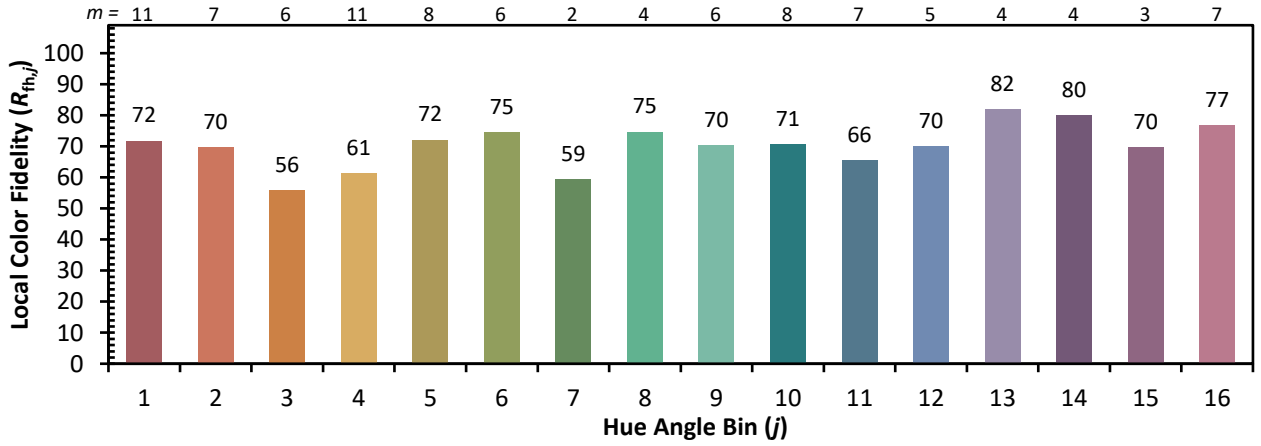
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### Color Rendition by Hue-Angle Bin



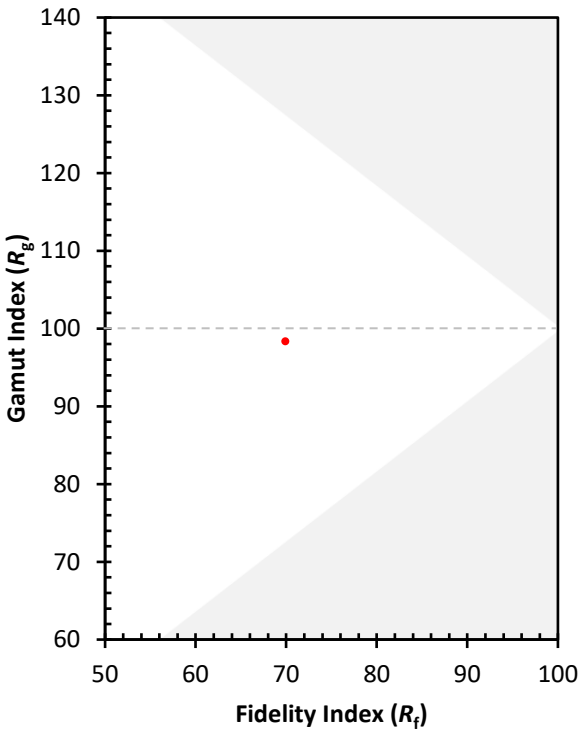



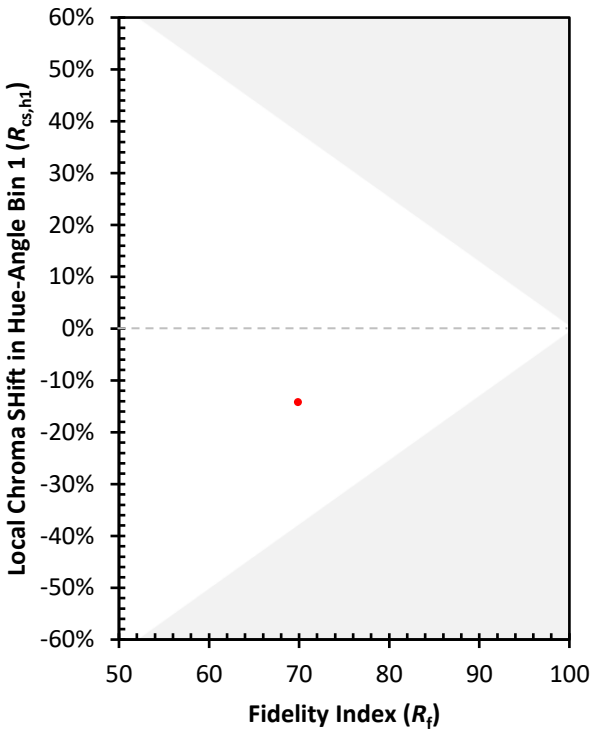
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### Measure Comparisons




(END OF REPORT)