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: P1199390

Luminaire Tested: GPC-SB2A-830-U-SLL-HSS

Issue Date: 10/30/2025

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1199390 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/15/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB2A-830-U-SLL-HSS |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF |
| | LEFT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6151 lumens |
| Efficiency: | N/A |
| Efficacy: | 107.3 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): | 57.3 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.484 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.994 |
| Total Harmonic Distortion (THDi): | 9.038 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

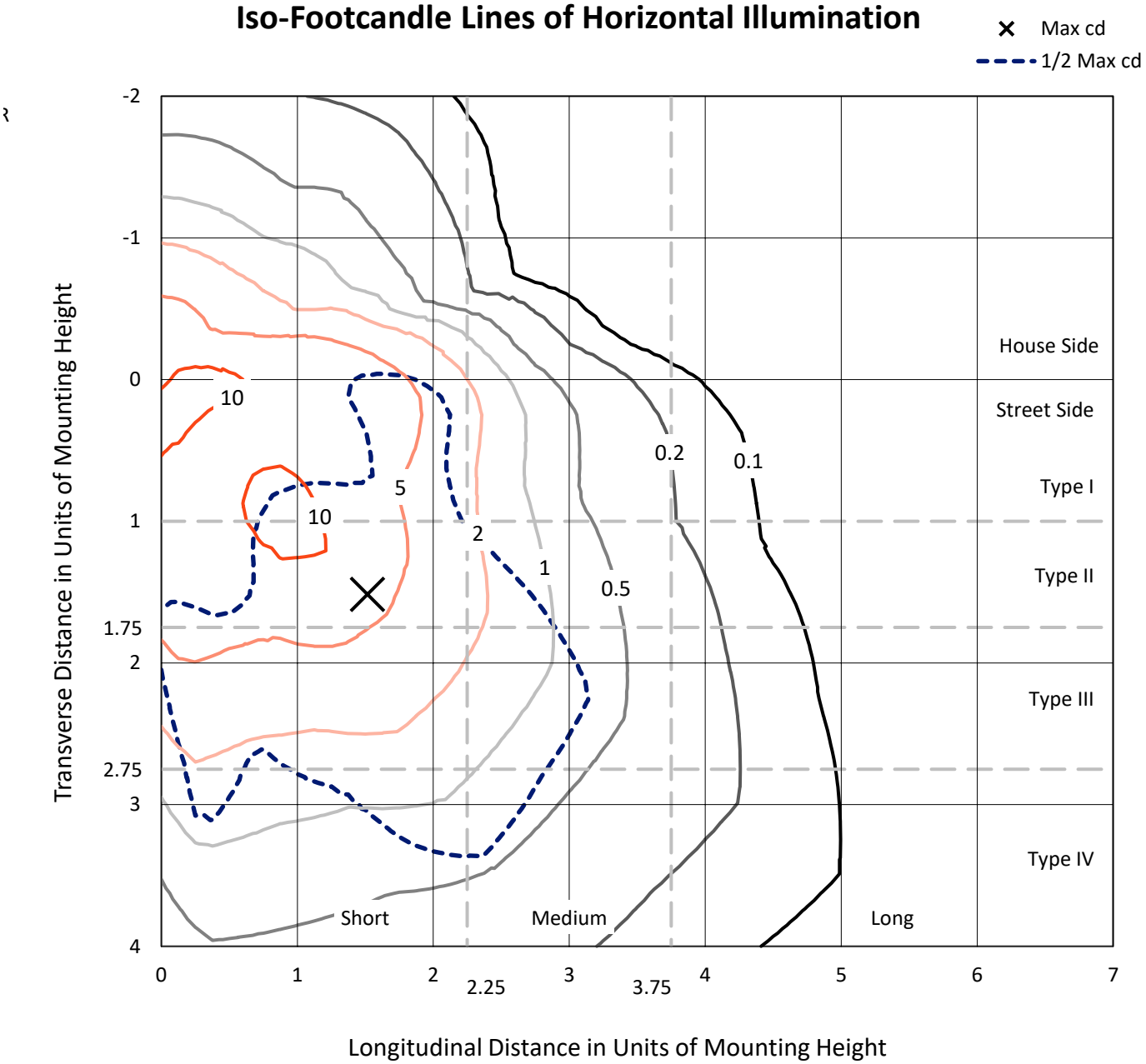


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REPORT NUMBER: P1199390
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## Iso-Footcandle Lines of Horizontal Illumination



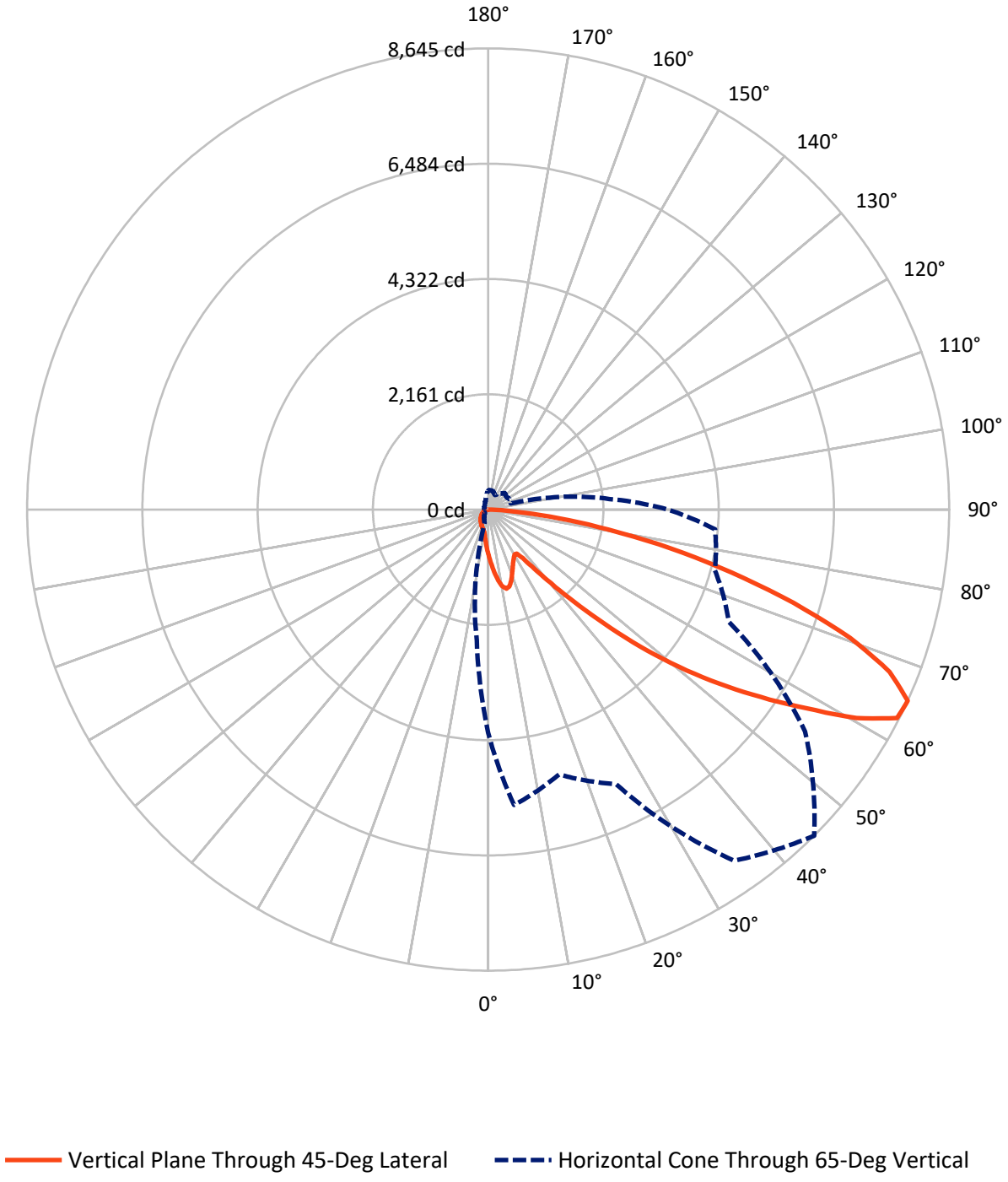

Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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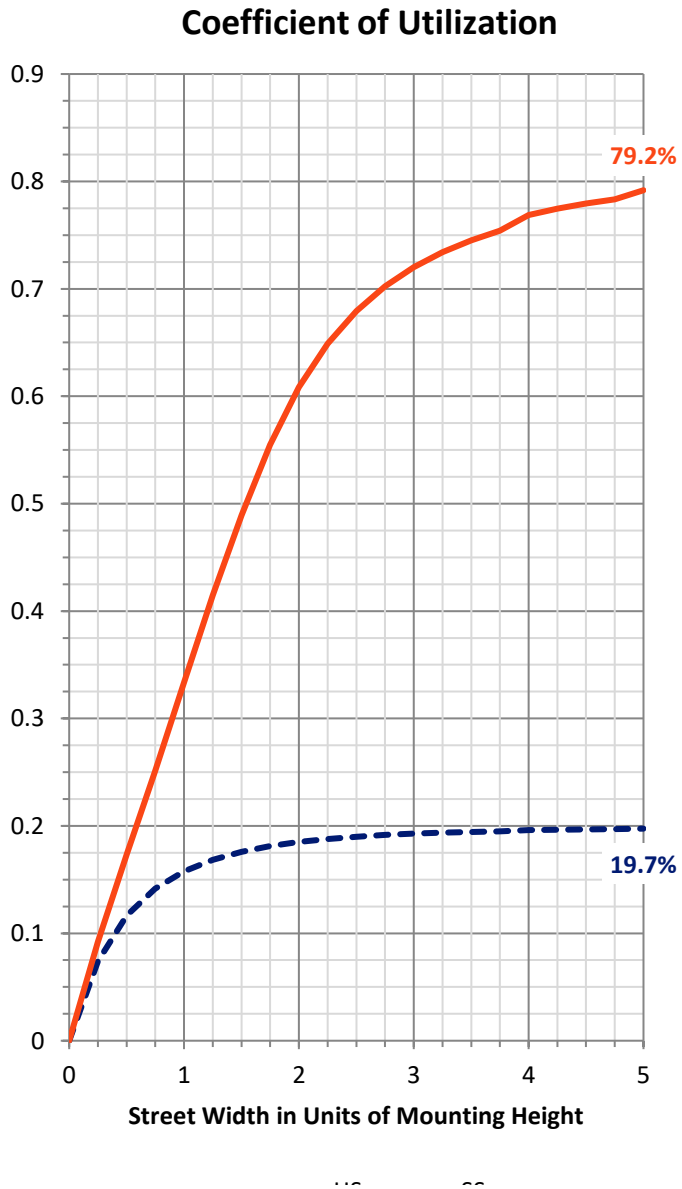
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CATALOG NUMBER: GPC-SB2A-830-U-SLL-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1222.6 | 0.0 | 1222.6 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| **Street Side** | Lumens | 4928.4 | 0.0 | 4928.4 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| **Total** | Lumens | 6151.0 | 0.0 | 6151.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 83.9 | 1.4 |
| 10°-20° | 251.4 | 4.1 |
| 20°-30° | 370.3 | 6.0 |
| 30°-40° | 475.8 | 7.7 |
| 40°-50° | 769.4 | 12.5 |
| 50°-60° | 1349.3 | 21.9 |
| 60°-70° | 1688.3 | 27.4 |
| 70°-80° | 986.6 | 16.0 |
| 80°-90° | 176.0 | 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° | 6151.0 | 100.0 |
| 0°-180° | 6151.0 | 100.0 |



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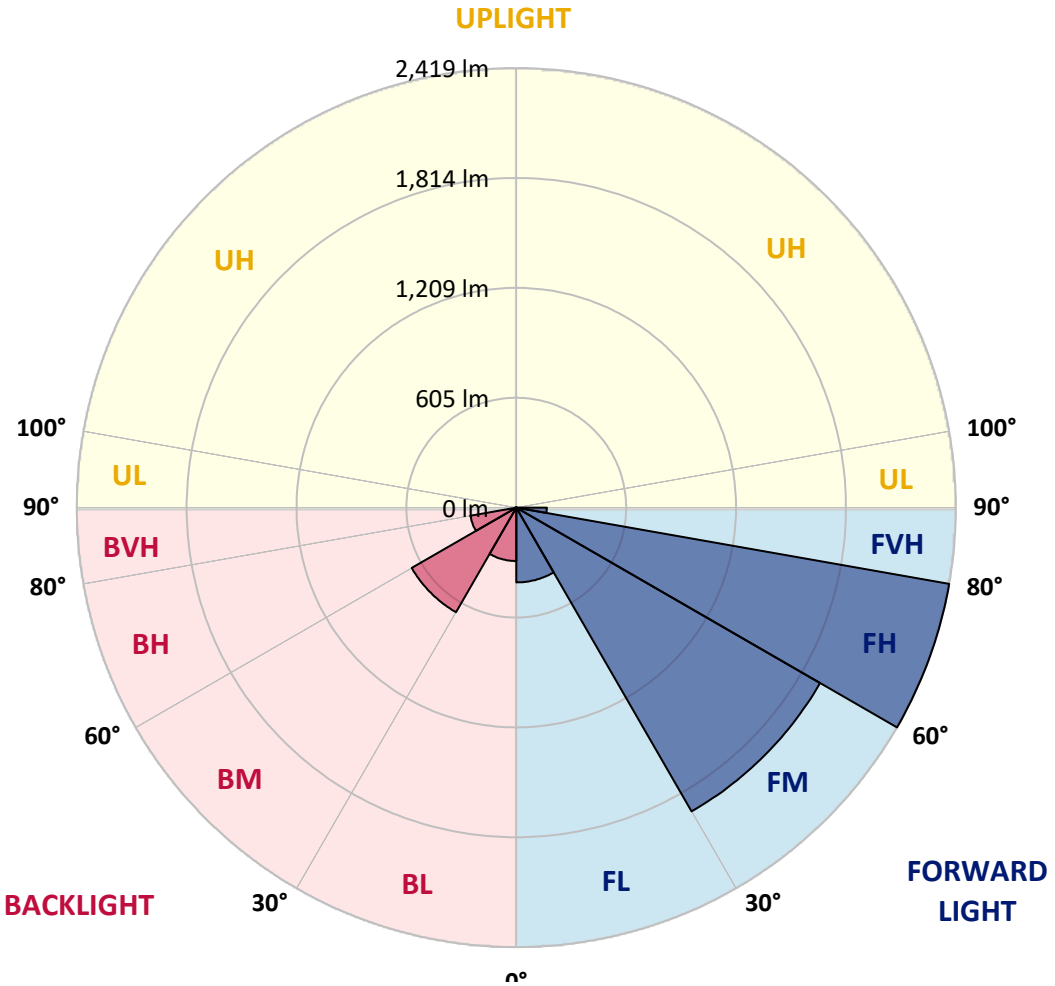
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 411.6 | 6.7 | | | |
| FM | (30°-60°) | 1930.3 | 31.4 | | | |
| FH | (60°-80°) | 2418.8 | 39.3 | | | G2/5000 |
| FVH | (80°-90°) | 167.8 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 294.0 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 664.2 | 10.8 | B1/1000 | | |
| BH | (60°-80°) | 256.2 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 8.2 | 0.1 | | | G0/10 |
| 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° | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | *851.7* | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 |
| 2.5° | 954.3 | 961.5 | 977.6 | 986.0 | 999.2 | *1000.0* | 1000.0 | 988.6 | 988.2 | 964.9 | 962.3 |
| 5° | 1066.6 | 1083.5 | 1121.6 | 1161.0 | 1169.5 | *1171.6* | 1167.4 | 1144.5 | 1127.6 | 1082.2 | 1072.5 |
| 7.5° | 1178.0 | 1210.6 | 1268.7 | 1321.2 | 1338.2 | *1338.2* | 1328.0 | 1290.7 | 1256.0 | 1190.3 | 1165.7 |
| 10° | 1270.4 | 1311.5 | 1390.3 | 1449.2 | 1468.7 | *1464.4* | 1443.7 | 1396.6 | 1348.8 | 1269.1 | 1236.9 |
| 12.5° | 1331.4 | 1377.6 | 1464.0 | 1511.5 | 1531.4 | *1520.4* | 1496.6 | 1450.9 | 1400.5 | 1316.6 | 1280.1 |
| 15° | 1361.9 | 1410.2 | 1485.2 | 1510.2 | 1504.7 | *1493.3* | 1490.3 | 1468.3 | 1430.1 | 1351.7 | 1311.9 |
| 17.5° | 1375.0 | 1420.0 | 1472.1 | 1456.4 | 1409.8 | *1400.9* | 1430.5 | 1458.5 | 1449.2 | 1382.2 | 1344.9 |
| 20° | 1387.3 | 1425.0 | 1440.7 | 1371.2 | 1289.9 | *1281.8* | 1338.6 | 1418.3 | 1458.9 | 1410.6 | 1376.3 |
| 22.5° | 1404.3 | 1427.6 | 1395.4 | 1281.4 | 1193.7 | *1175.0* | 1237.7 | 1357.7 | 1461.9 | 1446.6 | 1412.3 |
| 25° | 1427.6 | 1433.9 | 1345.4 | 1196.2 | 1108.1 | *1089.4* | 1147.9 | 1290.3 | 1456.8 | 1485.6 | 1456.4 |
| 27.5° | 1455.5 | 1442.4 | 1297.5 | 1125.0 | 1039.9 | *1022.5* | 1081.0 | 1225.5 | 1442.4 | 1524.6 | 1503.9 |
| 30° | 1492.0 | 1453.4 | 1250.0 | 1069.9 | 991.1 | *978.4* | 1034.8 | 1169.5 | 1424.6 | 1574.2 | 1562.8 |
| 32.5° | 1528.9 | 1458.1 | 1206.0 | 1037.7 | 980.1 | *984.8* | 1031.0 | 1139.4 | 1405.1 | 1621.7 | 1627.2 |
| 35° | 1568.7 | 1472.9 | 1184.4 | 1069.5 | 1072.1 | *1112.7* | 1131.8 | 1167.4 | 1402.2 | 1686.1 | 1707.7 |
| 37.5° | 1622.9 | 1506.0 | 1210.2 | 1227.6 | 1315.7 | *1400.0* | 1384.4 | 1304.3 | 1436.5 | 1782.2 | 1822.5 |
| 40° | 1700.9 | 1564.0 | 1322.9 | 1496.6 | 1677.6 | *1814.5* | 1754.7 | 1553.0 | 1541.6 | 1920.8 | 1981.0 |
| 42.5° | 1814.5 | 1656.4 | 1522.9 | 1825.5 | 2132.3 | *2357.7* | 2197.5 | 1873.8 | 1725.5 | 2118.7 | 2195.4 |
| 45° | 1982.3 | 1806.0 | 1764.9 | 2172.5 | 2692.9 | *3048.0* | 2714.9 | 2215.7 | 1983.1 | 2418.3 | 2478.5 |
| 47.5° | 2214.9 | 2025.9 | 1991.6 | 2538.2 | 3374.2 | *3833.6* | 3288.6 | 2532.7 | 2276.3 | 2826.8 | 2840.8 |
| 50° | 2523.8 | 2322.1 | 2206.4 | 2938.2 | 4121.3 | *4634.4* | 3862.0 | 2838.6 | 2612.4 | 3325.9 | 3309.8 |
| 52.5° | 2931.4 | 2735.2 | 2456.8 | 3319.2 | 4889.5 | *5418.4* | 4437.8 | 3107.3 | 3029.3 | 3905.2 | 3872.1 |
| 55° | 3487.4 | 3356.9 | 2799.2 | 3682.7 | 5657.3 | *6206.9* | 4991.2 | 3360.7 | 3580.2 | 4593.3 | 4393.3 |
| 57.5° | 4177.2 | 4270.4 | 3292.9 | 4104.3 | 6347.6 | *7019.7* | 5547.2 | 3714.9 | 4295.4 | 5362.8 | 4695.9 |
| 60° | 4622.2 | 5485.3 | 4238.2 | 4727.7 | 7132.0 | *7938.8* | 6309.1 | 4388.7 | 5047.2 | 5638.7 | 4638.3 |
| 62.5° | 4514.5 | 5871.8 | 5370.5 | 5523.4 | 7853.2 | *8607.0* | 7055.7 | 5065.4 | 5188.7 | 5232.3 | 4194.2 |
| 65° | *4184.4* | *5559.9* | *5139.5* | *5678.1* | *8035.8* | *8644.7* | *7255.3* | *4978.1* | *4401.4* | *4271.7* | *3371.3* |
| 67.5° | 3730.2 | 5190.0 | 4590.8 | 5267.9 | 7705.7 | *8117.6* | 6883.7 | 4403.5 | 3401.4 | 3205.6 | 2445.8 |
| 70° | 3239.9 | 4780.6 | 4230.6 | 4807.7 | 7076.5 | *7198.9* | 6251.9 | 3873.0 | 2501.8 | 2164.9 | 1569.5 |
| 72.5° | 2774.6 | 4354.3 | 3984.0 | 4336.1 | 6237.0 | *5983.6* | 5429.4 | 3403.9 | 1821.7 | 1561.5 | 1115.7 |
| 75° | 2298.8 | 3725.5 | 3632.7 | 3775.9 | 5133.2 | *4713.3* | 4511.1 | 2818.3 | 1429.7 | 1129.7 | 769.9 |
| 77.5° | 1773.8 | 2911.1 | 3124.7 | 3023.8 | 3613.2 | *3500.9* | 3496.7 | 2117.9 | 1044.5 | 753.8 | 482.6 |
| 80° | 1214.0 | 2028.9 | 2441.2 | 2133.1 | 2345.0 | *2287.8* | 2633.5 | 1420.8 | 757.6 | 453.8 | 268.7 |
| 82.5° | 713.6 | 1235.2 | 1699.2 | 1032.7 | 1296.6 | *1331.0* | 1568.3 | 691.1 | 445.8 | 104.7 | 58.5 |
| 85° | 289.4 | 487.7 | 664.4 | 404.2 | 625.4 | *527.6* | 595.4 | 194.1 | 124.2 | 2.5 | 0.0 |
| 87.5° | 72.9 | 155.9 | 109.3 | 45.3 | 72.5 | *66.5* | 52.5 | 23.7 | 5.1 | 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):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 |
| 2.5° | 945.8 | 936.0 | 911.9 | 887.7 | 868.2 | 842.0 | 824.6 | 803.8 | 783.9 | 766.1 | 762.7 |
| 5° | 1045.8 | 1013.6 | 969.5 | 929.3 | 888.2 | 848.3 | 808.9 | 767.4 | 729.3 | 706.0 | 691.1 |
| 7.5° | 1127.1 | 1070.4 | 1011.9 | 960.6 | 911.0 | 864.4 | 812.3 | 761.9 | 702.1 | 670.4 | 641.5 |
| 10° | 1187.7 | 1113.2 | 1036.5 | 977.6 | 927.6 | 882.2 | 838.2 | 787.3 | 715.3 | 675.4 | 632.2 |
| 12.5° | 1227.6 | 1139.0 | 1049.2 | 981.8 | 925.9 | 890.7 | 871.2 | 851.3 | 779.7 | 733.1 | 670.4 |
| 15° | 1255.1 | 1157.2 | 1058.1 | 972.1 | 903.4 | 877.6 | 897.1 | 919.9 | 874.2 | 820.4 | 738.6 |
| 17.5° | 1285.2 | 1181.0 | 1061.9 | 945.8 | 859.8 | 848.8 | 899.2 | 952.1 | 950.0 | 896.6 | 816.5 |
| 20° | 1317.0 | 1201.7 | 1059.3 | 903.4 | 806.8 | 816.5 | 881.0 | 942.4 | 968.2 | 939.4 | 868.2 |
| 22.5° | 1349.6 | 1221.6 | 1049.6 | 848.3 | 757.2 | 787.7 | 852.1 | 906.0 | 936.5 | 927.6 | 873.3 |
| 25° | 1390.7 | 1249.6 | 1035.2 | 789.0 | 716.1 | 758.5 | 818.7 | 862.3 | 883.5 | 883.1 | 845.8 |
| 27.5° | 1439.9 | 1286.9 | 1027.6 | 741.1 | 686.9 | 725.4 | 778.8 | 817.8 | 832.6 | 832.6 | 803.0 |
| 30° | 1497.1 | 1331.0 | 1019.1 | 709.8 | 669.9 | 691.1 | 732.6 | 770.8 | 785.6 | 785.6 | 760.6 |
| 32.5° | 1560.6 | 1373.3 | 998.8 | 690.7 | 657.2 | 657.6 | 683.9 | 718.7 | 736.5 | 739.0 | 721.2 |
| 35° | 1636.9 | 1418.7 | 954.3 | 675.4 | 642.4 | 625.0 | 637.7 | 666.5 | 687.7 | 693.2 | 682.2 |
| 37.5° | 1736.9 | 1474.2 | 890.7 | 653.0 | 619.5 | 590.7 | 593.7 | 615.7 | 639.0 | 647.5 | 640.3 |
| 40° | 1871.2 | 1539.4 | 824.6 | 620.8 | 587.3 | 553.0 | 551.7 | 567.8 | 590.7 | 600.0 | 596.2 |
| 42.5° | 2048.8 | 1617.8 | 761.5 | 589.8 | 548.3 | 513.1 | 511.0 | 523.7 | 543.7 | 553.4 | 551.7 |
| 45° | 2275.9 | 1714.0 | 707.2 | 565.7 | 510.2 | 475.4 | 474.6 | 485.2 | 502.6 | 512.7 | 510.6 |
| 47.5° | 2591.6 | 1810.2 | 670.4 | 553.0 | 480.1 | 444.5 | 446.2 | 455.5 | 471.2 | 478.4 | 475.4 |
| 50° | 3003.0 | 1839.5 | 651.7 | 553.0 | 464.0 | 417.0 | 425.4 | 433.1 | 444.9 | 449.2 | 445.4 |
| 52.5° | 3398.0 | 1742.8 | 634.8 | 556.4 | 466.1 | 393.7 | 411.9 | 417.4 | 427.6 | 429.2 | 423.7 |
| 55° | 3591.6 | 1498.3 | 611.5 | 557.2 | 479.2 | 373.7 | 400.9 | 411.0 | 414.8 | 414.4 | 405.1 |
| 57.5° | 3525.1 | 1211.5 | 572.0 | 553.8 | 488.1 | 361.0 | 387.3 | 406.8 | 409.3 | 405.5 | 388.1 |
| 60° | 3291.6 | 892.0 | 542.0 | 528.8 | 484.8 | 357.2 | 366.5 | 397.5 | 401.3 | 396.2 | 367.8 |
| 62.5° | 2900.1 | 619.1 | 518.7 | 473.7 | 469.9 | 355.9 | 333.9 | 377.1 | 386.5 | 379.2 | 337.7 |
| 65° | *2283.1* | *437.3* | *446.6* | *415.3* | *437.7* | *349.2* | *300.0* | *352.6* | *365.3* | *354.2* | *295.8* |
| 67.5° | 1545.0 | 315.7 | 361.9 | 376.3 | 385.6 | 333.9 | 275.4 | 324.6 | 341.5 | 327.1 | 247.0 |
| 70° | 834.3 | 221.6 | 239.0 | 317.0 | 327.6 | 307.6 | 253.4 | 296.2 | 315.7 | 300.0 | 201.3 |
| 72.5° | 492.8 | 159.3 | 167.4 | 254.7 | 272.9 | 270.8 | 228.8 | 263.1 | 286.9 | 268.2 | 163.6 |
| 75° | 271.6 | 107.6 | 119.5 | 184.8 | 221.6 | 208.9 | 196.6 | 222.9 | 247.0 | 228.8 | 126.3 |
| 77.5° | 121.6 | 64.4 | 83.1 | 121.2 | 174.2 | 143.2 | 152.1 | 173.7 | 196.2 | 177.1 | 84.3 |
| 80° | 47.0 | 36.0 | 55.1 | 66.1 | 126.7 | 79.2 | 97.9 | 128.0 | 144.1 | 128.8 | 51.3 |
| 82.5° | 5.9 | 16.1 | 23.7 | 25.8 | 73.7 | 42.0 | 56.8 | 80.5 | 79.2 | 68.6 | 25.8 |
| 85° | 0.0 | 3.0 | 3.4 | 1.7 | 31.8 | 15.3 | 18.6 | 26.3 | 24.6 | 18.6 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 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° | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 |
| 2.5° | 742.0 | 726.7 | 719.1 | 712.7 | 718.7 | 722.1 | 722.1 | 736.5 | 744.9 | 748.3 | 772.1 |
| 5° | 653.8 | 625.4 | 606.4 | 594.9 | 598.7 | 603.0 | 607.6 | 625.9 | 638.2 | 646.2 | 683.1 |
| 7.5° | 584.3 | 541.1 | 514.4 | 500.4 | 502.6 | 505.5 | 509.3 | 527.1 | 539.4 | 550.0 | 591.1 |
| 10° | 550.0 | 489.0 | 453.8 | 436.9 | 433.9 | 432.2 | 430.9 | 441.5 | 450.9 | 459.3 | 500.0 |
| 12.5° | 551.7 | 466.5 | 423.7 | 403.0 | 394.1 | 383.9 | 375.9 | 377.6 | 383.5 | 394.1 | 419.9 |
| 15° | 573.3 | 459.3 | 408.1 | 382.2 | 367.4 | 355.5 | 345.8 | 343.7 | 345.8 | 347.5 | 363.6 |
| 17.5° | 602.6 | 458.5 | 394.5 | 362.3 | 347.0 | 337.3 | 328.4 | 325.4 | 325.9 | 328.0 | 332.2 |
| 20° | 625.9 | 455.9 | 379.2 | 343.2 | 329.7 | 321.2 | 312.3 | 309.3 | 310.2 | 310.6 | 315.3 |
| 22.5° | 638.2 | 452.1 | 362.3 | 324.2 | 312.7 | 304.2 | 296.2 | 295.8 | 295.8 | 298.3 | 301.7 |
| 25° | 638.2 | 444.1 | 347.0 | 305.9 | 295.8 | 288.1 | 278.4 | 280.1 | 280.9 | 284.3 | 289.4 |
| 27.5° | 622.9 | 428.8 | 334.8 | 290.3 | 279.7 | 272.0 | 263.1 | 265.3 | 266.5 | 270.3 | 276.7 |
| 30° | 603.4 | 410.6 | 320.8 | 275.4 | 263.1 | 257.6 | 250.0 | 250.9 | 252.5 | 256.8 | 264.0 |
| 32.5° | 582.6 | 389.0 | 309.3 | 260.6 | 248.3 | 244.1 | 235.6 | 236.9 | 238.6 | 243.2 | 251.3 |
| 35° | 559.8 | 363.6 | 295.8 | 247.0 | 234.8 | 231.4 | 221.6 | 222.5 | 225.0 | 230.1 | 238.1 |
| 37.5° | 535.6 | 342.8 | 282.2 | 233.9 | 221.2 | 217.8 | 207.6 | 208.5 | 211.4 | 217.4 | 225.0 |
| 40° | 511.9 | 322.5 | 267.8 | 219.9 | 207.2 | 204.2 | 193.2 | 194.1 | 197.5 | 203.8 | 211.9 |
| 42.5° | 486.0 | 306.8 | 249.2 | 205.5 | 192.0 | 189.0 | 178.8 | 180.1 | 183.9 | 190.3 | 198.3 |
| 45° | 455.1 | 296.6 | 228.4 | 192.0 | 176.7 | 173.7 | 164.4 | 167.0 | 171.2 | 177.5 | 186.0 |
| 47.5° | 423.3 | 292.4 | 211.0 | 177.5 | 161.0 | 158.5 | 150.9 | 155.1 | 159.7 | 164.8 | 174.2 |
| 50° | 392.8 | 286.9 | 193.2 | 164.0 | 147.5 | 144.9 | 139.8 | 145.3 | 150.0 | 154.7 | 163.6 |
| 52.5° | 358.1 | 275.0 | 177.1 | 152.1 | 136.0 | 135.2 | 132.6 | 137.7 | 142.0 | 146.2 | 153.8 |
| 55° | 322.0 | 255.9 | 163.1 | 141.5 | 126.3 | 127.1 | 125.9 | 130.1 | 133.5 | 137.3 | 144.1 |
| 57.5° | 290.7 | 231.8 | 152.1 | 130.1 | 117.8 | 120.3 | 118.6 | 120.8 | 122.9 | 127.5 | 133.1 |
| 60° | 258.9 | 203.0 | 139.8 | 116.5 | 109.3 | 112.3 | 107.6 | 107.2 | 108.1 | 109.3 | 119.5 |
| 62.5° | 216.1 | 172.9 | 124.6 | 104.7 | 100.0 | 101.3 | 92.4 | 85.6 | 85.6 | 86.9 | 102.1 |
| 65° | *173.7* | *144.9* | *107.6* | *91.1* | *87.3* | *86.4* | *73.7* | *64.4* | *63.6* | *67.4* | *80.5* |
| 67.5° | 142.8 | 120.3 | 90.7 | 75.8 | 73.3 | 74.2 | 64.8 | 55.5 | 54.7 | 58.9 | 68.6 |
| 70° | 118.2 | 97.0 | 72.5 | 58.5 | 61.0 | 64.8 | 55.5 | 46.6 | 45.3 | 49.2 | 58.5 |
| 72.5° | 94.1 | 75.8 | 55.5 | 43.2 | 50.4 | 55.1 | 45.3 | 36.9 | 36.0 | 39.4 | 48.3 |
| 75° | 69.1 | 54.2 | 37.7 | 31.4 | 39.0 | 43.2 | 33.1 | 26.3 | 25.0 | 28.0 | 36.9 |
| 77.5° | 42.8 | 30.5 | 23.7 | 18.6 | 26.7 | 28.8 | 17.4 | 15.3 | 14.8 | 16.9 | 23.3 |
| 80° | 19.9 | 13.1 | 11.4 | 6.4 | 9.7 | 11.4 | 7.2 | 8.1 | 8.5 | 10.2 | 14.4 |
| 82.5° | 5.5 | 2.1 | 0.4 | 0.0 | 0.0 | 3.4 | 1.7 | 3.4 | 4.2 | 6.4 | 9.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 2.1 | 3.8 | 6.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.4 |
| 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: P1199390
CATALOG NUMBER: GPC-SB2A-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 | 851.7 |
| 2.5° | 789.9 | 806.8 | 833.9 | 861.9 | 889.4 | 917.4 | 944.5 | 954.3 |
| 5° | 716.5 | 755.5 | 809.3 | 867.0 | 926.3 | 986.5 | 1041.6 | 1066.6 |
| 7.5° | 634.8 | 690.7 | 771.6 | 861.9 | 956.4 | 1050.9 | 1137.7 | 1178.0 |
| 10° | 547.5 | 618.2 | 710.6 | 832.6 | 968.2 | 1098.8 | 1218.3 | 1270.4 |
| 12.5° | 464.4 | 538.6 | 640.7 | 786.9 | 958.9 | 1126.3 | 1269.9 | 1331.4 |
| 15° | 394.9 | 460.6 | 570.8 | 732.6 | 928.8 | 1128.0 | 1294.5 | 1361.9 |
| 17.5° | 342.8 | 385.6 | 499.6 | 672.5 | 889.4 | 1112.3 | 1303.0 | 1375.0 |
| 20° | 317.0 | 328.8 | 407.2 | 595.4 | 852.6 | 1097.5 | 1311.5 | 1387.3 |
| 22.5° | 301.7 | 304.7 | 333.1 | 495.8 | 808.5 | 1092.8 | 1326.3 | 1404.3 |
| 25° | 289.4 | 290.3 | 297.9 | 392.8 | 741.1 | 1089.9 | 1349.2 | 1427.6 |
| 27.5° | 277.1 | 277.1 | 281.4 | 316.5 | 649.6 | 1077.1 | 1378.8 | 1455.5 |
| 30° | 264.8 | 264.8 | 267.8 | 280.1 | 542.4 | 1052.1 | 1414.4 | 1492.0 |
| 32.5° | 252.1 | 252.1 | 254.7 | 263.6 | 433.1 | 1020.8 | 1447.1 | 1528.9 |
| 35° | 239.4 | 238.6 | 242.0 | 251.3 | 344.5 | 981.0 | 1479.7 | 1568.7 |
| 37.5° | 225.9 | 225.4 | 228.8 | 239.4 | 297.5 | 934.8 | 1504.3 | 1622.9 |
| 40° | 211.4 | 211.4 | 215.3 | 226.7 | 283.9 | 876.7 | 1543.3 | 1700.9 |
| 42.5° | 198.3 | 197.5 | 201.7 | 215.7 | 273.7 | 821.2 | 1613.2 | 1814.5 |
| 45° | 185.6 | 183.9 | 187.7 | 205.1 | 255.9 | 801.7 | 1743.7 | 1982.3 |
| 47.5° | 173.7 | 169.5 | 172.9 | 192.4 | 239.8 | 874.6 | 1957.3 | 2214.9 |
| 50° | 164.0 | 155.9 | 158.9 | 179.7 | 227.5 | 1032.7 | 2234.4 | 2523.8 |
| 52.5° | 153.8 | 143.2 | 144.9 | 164.0 | 216.5 | 1183.1 | 2534.8 | 2931.4 |
| 55° | 143.2 | 131.4 | 132.2 | 148.3 | 200.9 | 1205.5 | 2828.0 | 3487.4 |
| 57.5° | 131.4 | 120.3 | 120.3 | 133.9 | 189.4 | 1044.9 | 3053.5 | 4177.2 |
| 60° | 118.2 | 111.0 | 108.9 | 122.5 | 199.6 | 737.3 | 3079.7 | 4622.2 |
| 62.5° | 103.8 | 100.0 | 97.0 | 111.4 | 207.2 | 436.9 | 2868.3 | 4514.5 |
| 65° | *87.3* | *86.4* | *84.3* | *122.5* | *174.6* | *258.1* | *2462.4* | *4184.4* |
| 67.5° | 73.3 | 72.0 | 72.0 | 128.4 | 132.6 | 162.3 | 1923.8 | 3730.2 |
| 70° | 63.1 | 58.5 | 58.5 | 97.0 | 80.5 | 112.3 | 1343.3 | 3239.9 |
| 72.5° | 53.0 | 47.9 | 44.5 | 77.5 | 60.2 | 82.2 | 839.4 | 2774.6 |
| 75° | 42.4 | 38.6 | 34.3 | 51.3 | 44.9 | 62.3 | 487.7 | 2298.8 |
| 77.5° | 30.5 | 28.8 | 24.2 | 37.7 | 32.6 | 44.9 | 290.3 | 1773.8 |
| 80° | 15.7 | 16.1 | 15.3 | 21.6 | 22.0 | 30.5 | 165.3 | 1214.0 |
| 82.5° | 9.3 | 7.2 | 8.1 | 10.6 | 12.7 | 17.4 | 62.3 | 713.6 |
| 85° | 5.9 | 3.8 | 3.8 | 5.1 | 6.4 | 6.8 | 19.1 | 289.4 |
| 87.5° | 3.0 | 1.3 | 1.7 | 2.5 | 2.1 | 1.7 | 0.8 | 72.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

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

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

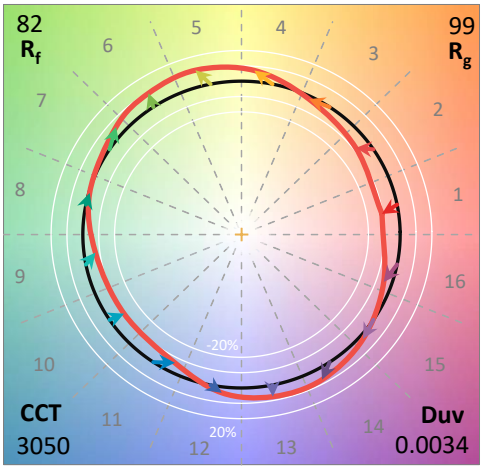
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2408-195-9 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 08/07/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | MCGRAW EDISON |
| Catalog Number: | **GALN-SB1A-830-U-5WQ** |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3050 |
| CIE u': | 0.2476 |
| CIE v': | 0.5251 |
| Duv: | 0.0034 |
| CIE x: | 0.4383 |
| CIE y: | 0.4131 |
| CIE z: | 0.1487 |
| Peak Wavelength (nm): | 603 |
| Dominant Wavelength (nm): | 581 |
| Purity: | 55.55201 |
| Rf: | 81.5 |
| Rg: | 99.2 |

| | |
|---|---|
| CRI (Ra): | 81.0 |
| R1: | 79.6 |
| R2: | 85.6 |
| R3: | 92.0 |
| R4: | 82.6 |
| R5: | 78.9 |
| R6: | 81.7 |
| R7: | 85.2 |
| R8: | 62.0 |
| R9: | 7.1 |
| R10: | 67.0 |
| R11: | 82.7 |
| R12: | 63.2 |
| R13: | 80.3 |
| R14: | 95.0 |
| R15: | 71.7 |




## Test Conditions

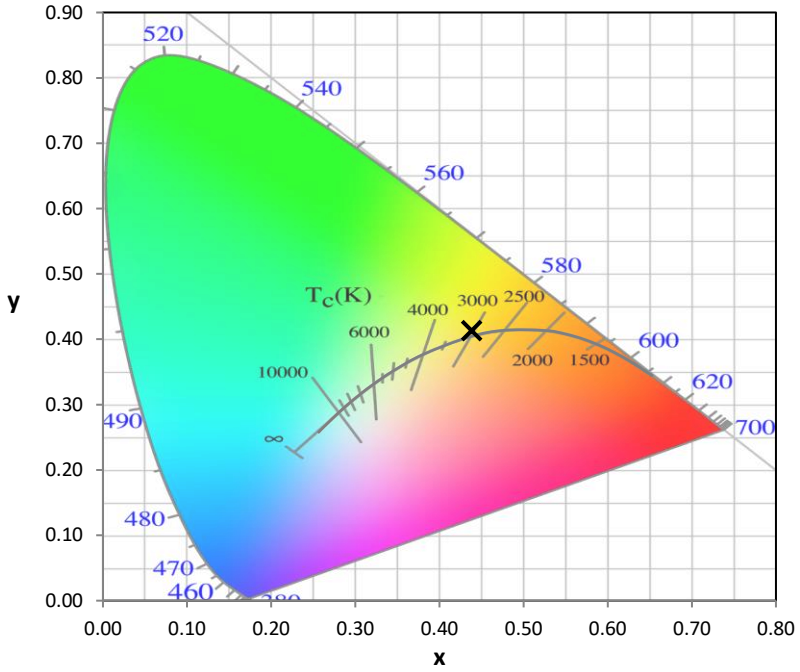
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.2 |

REPORT NUMBER: SP1-2408-195-9

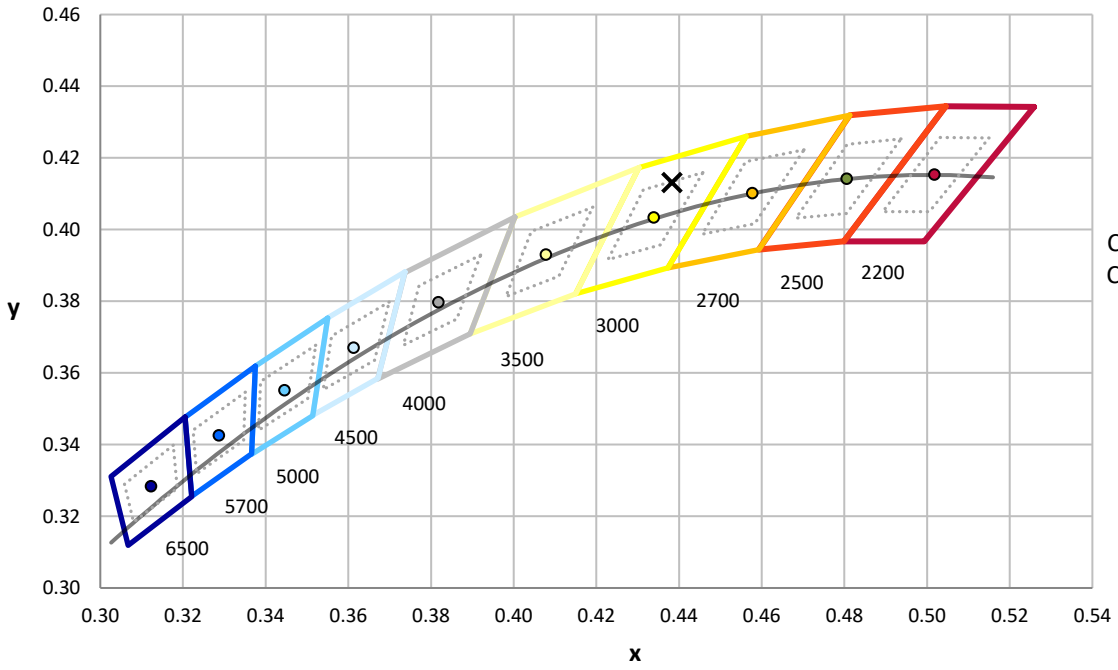
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2408-195-9

## CIE 1931 Chromaticity Diagram




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

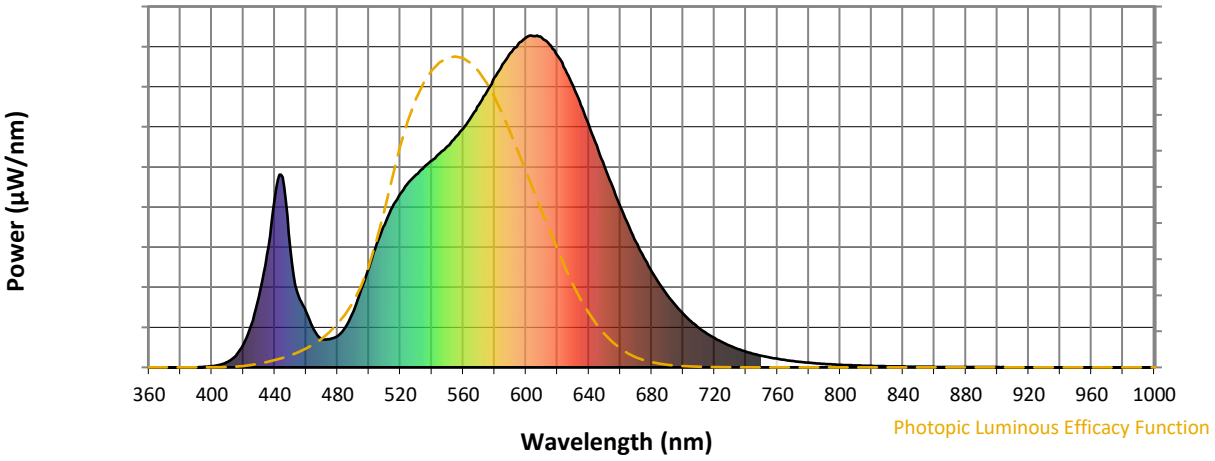



CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

## Photopic Flux vs. Wavelength

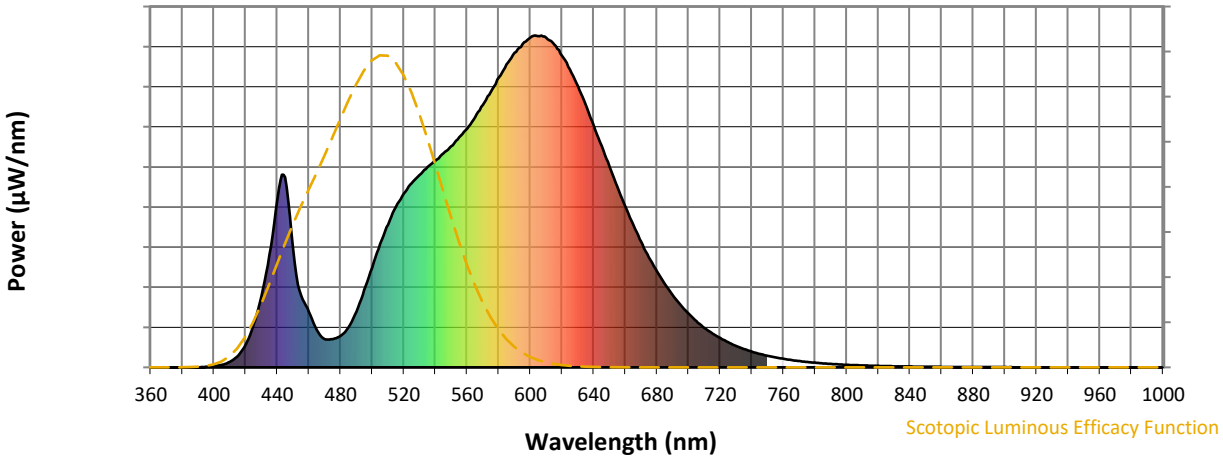



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Scotopic Flux vs. Wavelength

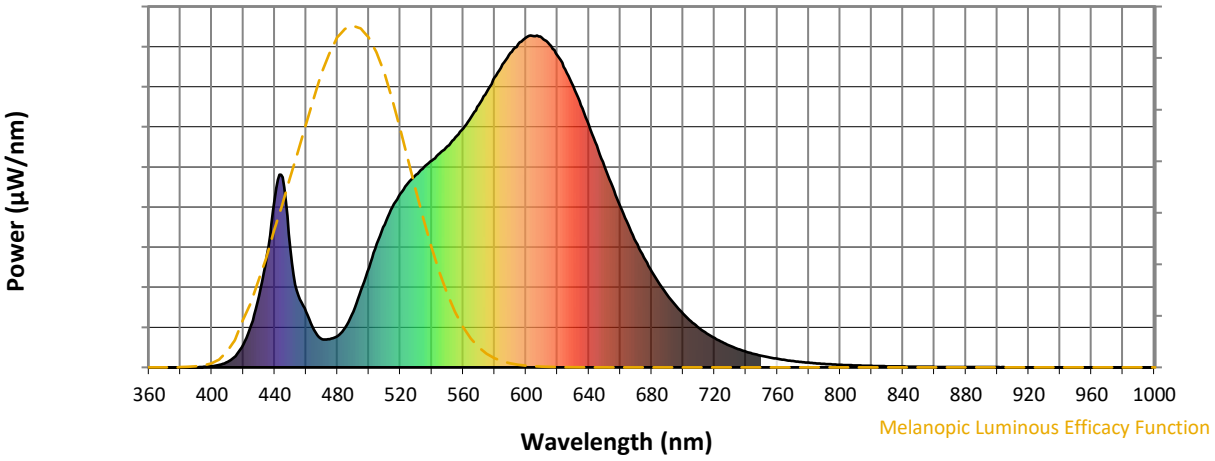



**Scotopic Lumens: NR** **S/P: 1.27**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.32**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

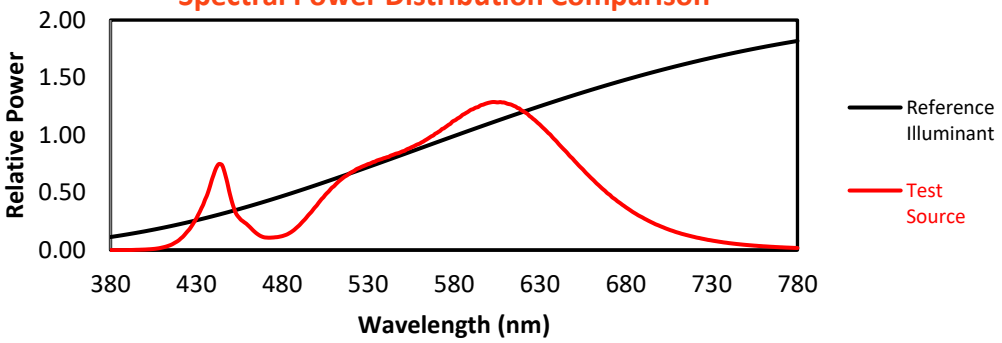
REPORT NUMBER: SP1-2408-195-9

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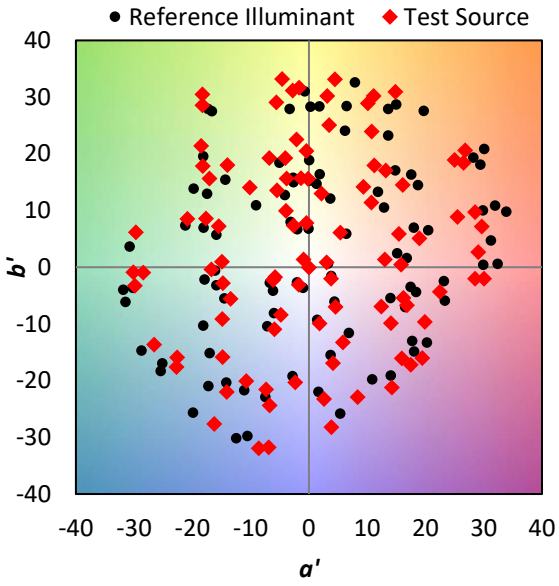
## Summary

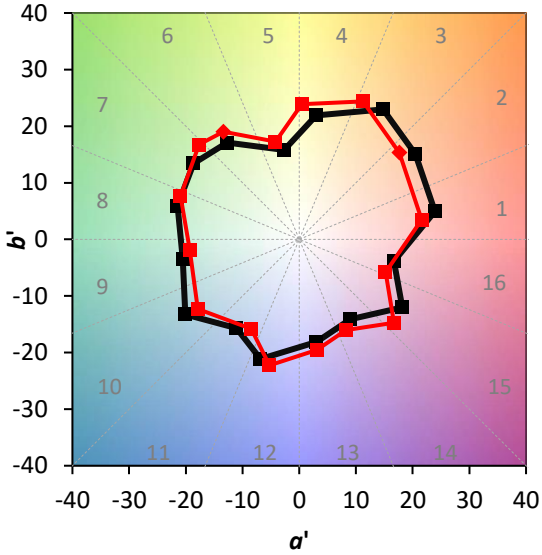
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 81.0
$R_9$ = 7.1

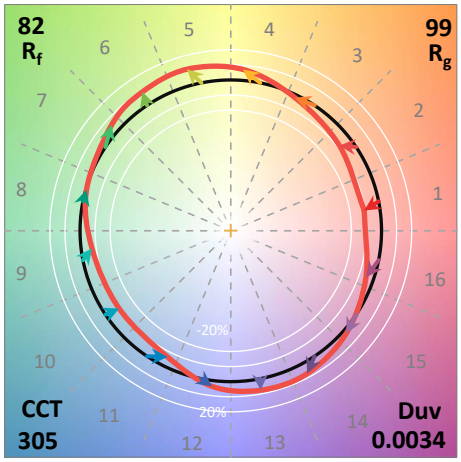
## Spectral Power Distribution Comparison

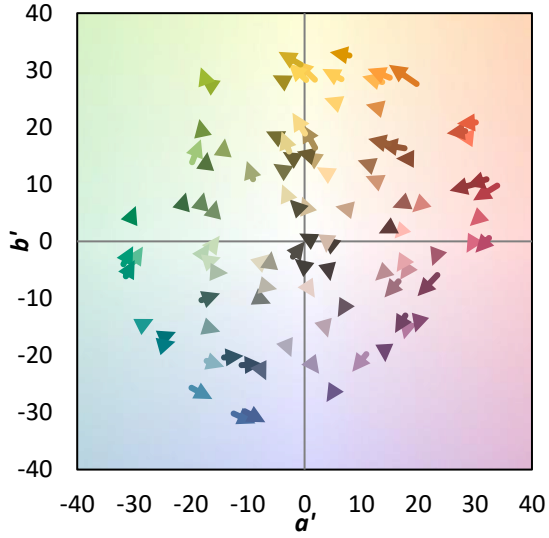



## Color Vector Graphics



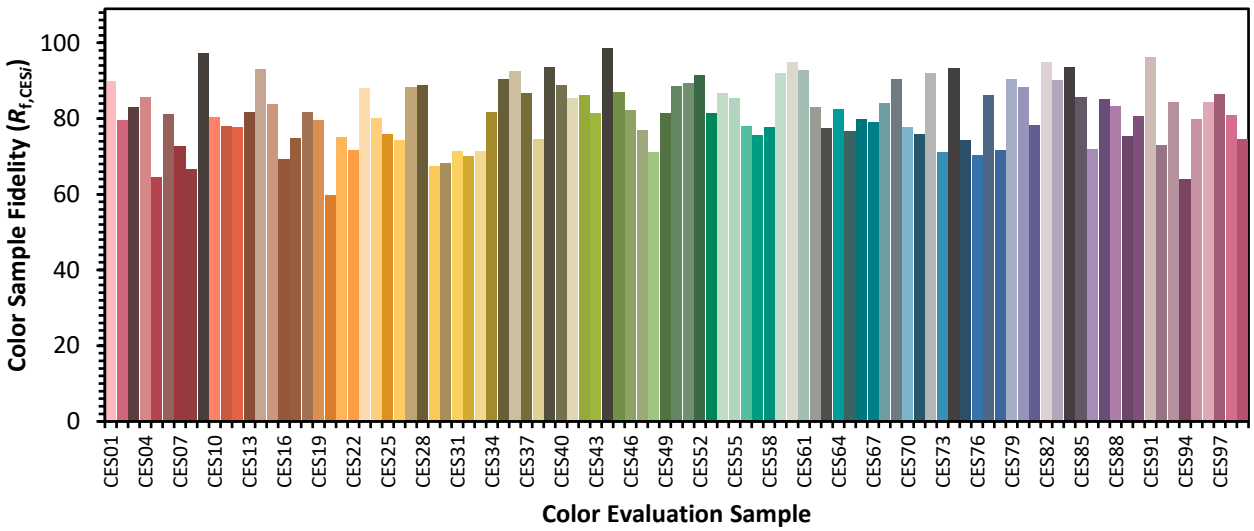



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**Individual Sample Fidelity Index ($R_{f,i}$)**

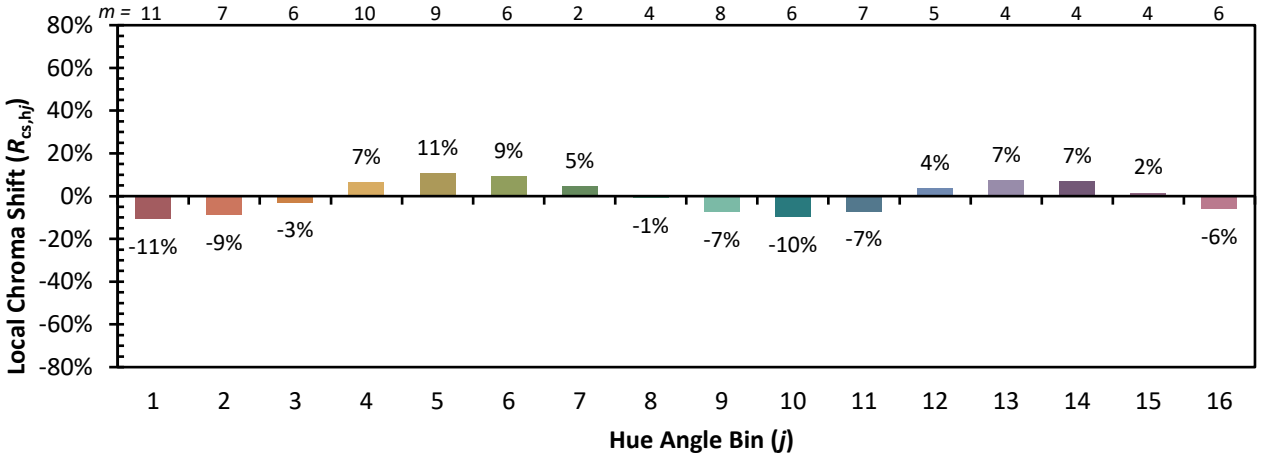
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 92 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 94 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 91 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 78 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |

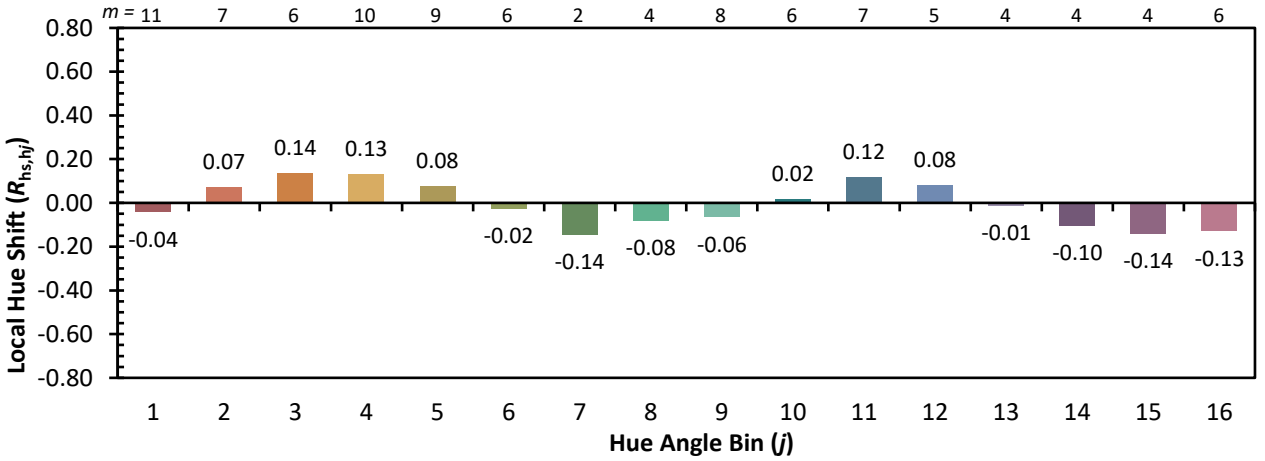


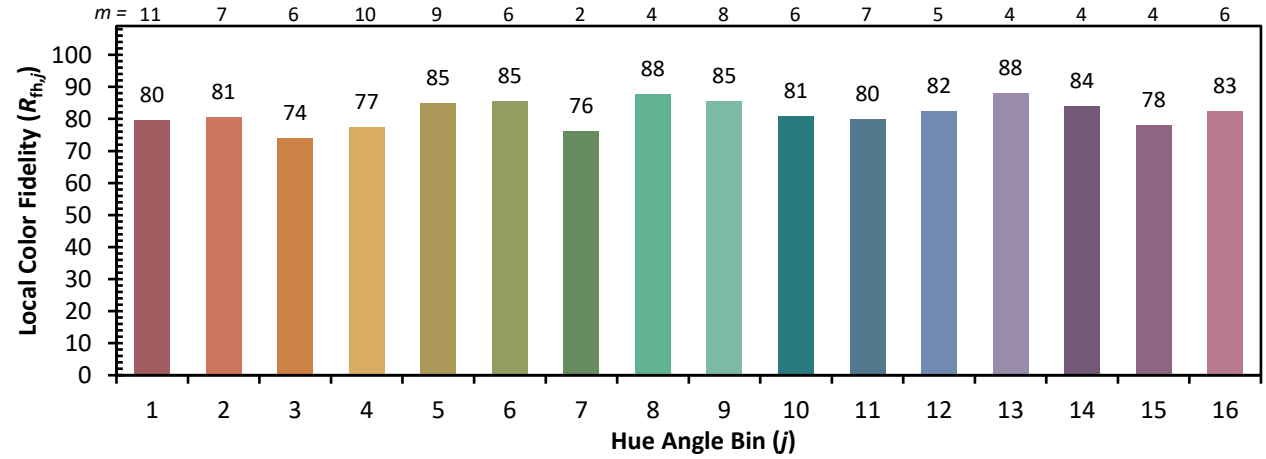
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## Color Rendition by Hue-Angle Bin



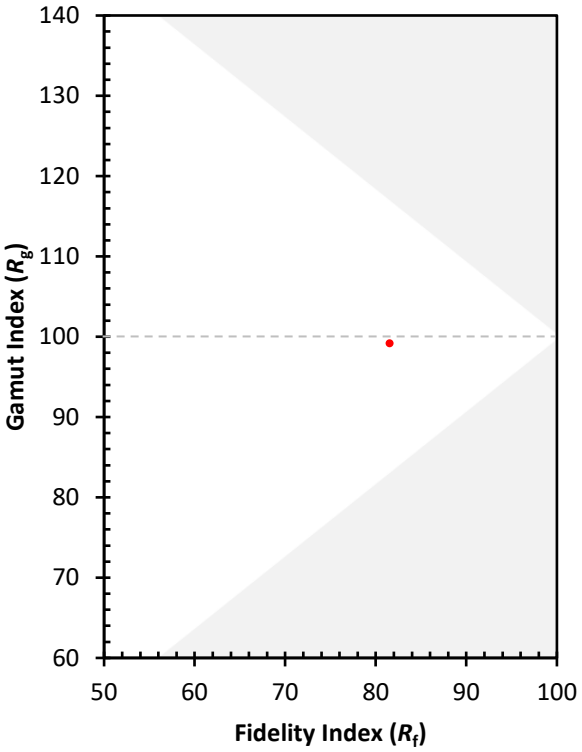



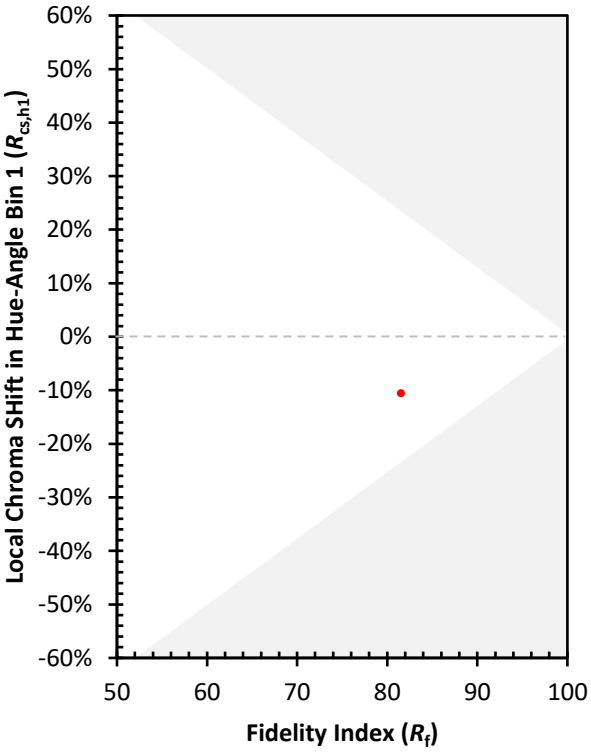



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## Measure Comparisons




(END OF REPORT)