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: P1200820

Luminaire Tested: GPC-SB2D-830-U-SLR-HSS

Issue Date: 10/30/2025

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1200820 |
| | 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-SB2D-830-U-SLR-HSS |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF |
| | RIGHT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 13953 lumens |
| Efficiency: | N/A |
| Efficacy: | 94.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 147.6 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 1.234 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.999 |
| Total Harmonic Distortion (THDi): | 3.108 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

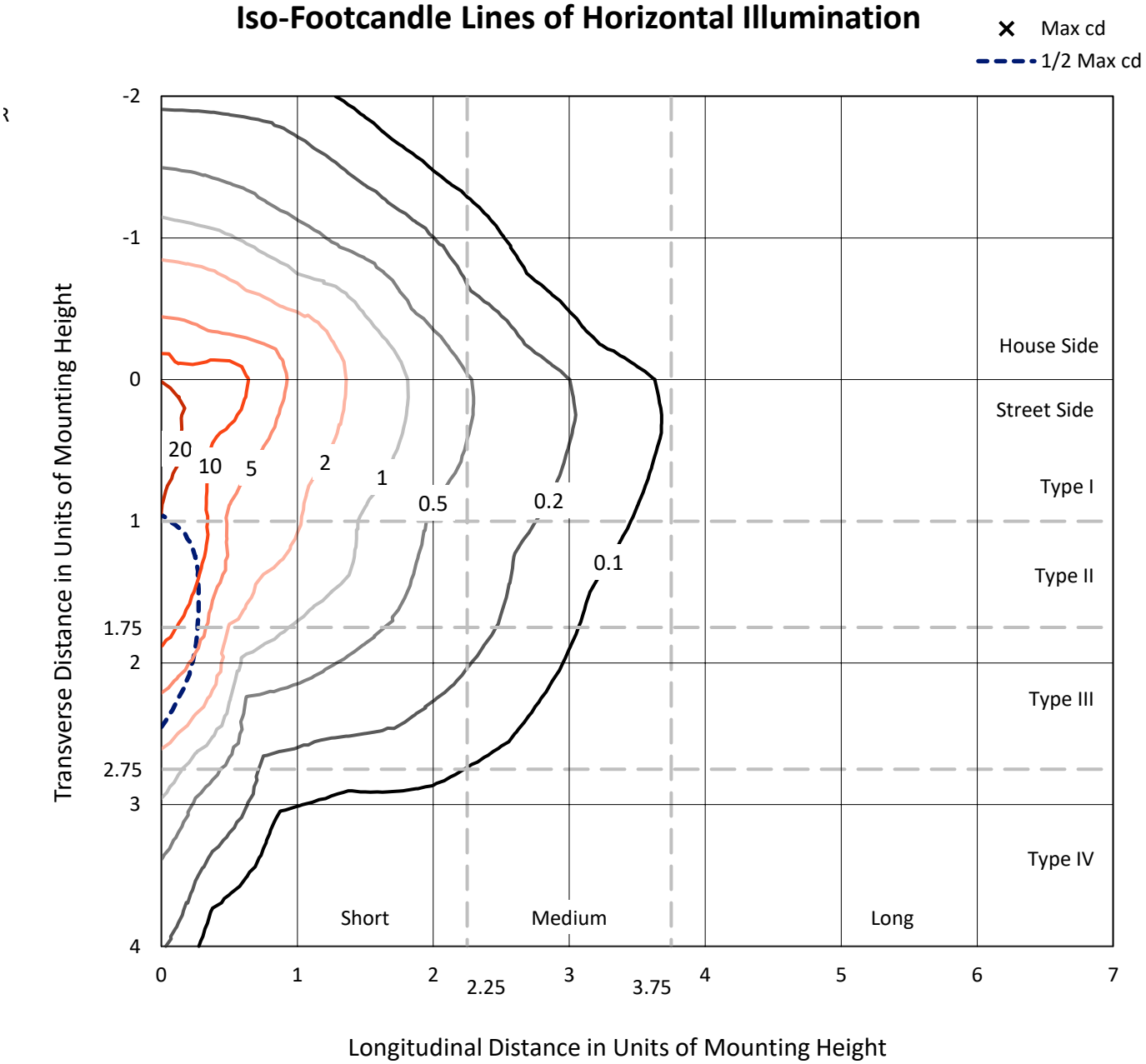


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REPORT NUMBER: P1200820
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## Iso-Footcandle Lines of Horizontal Illumination



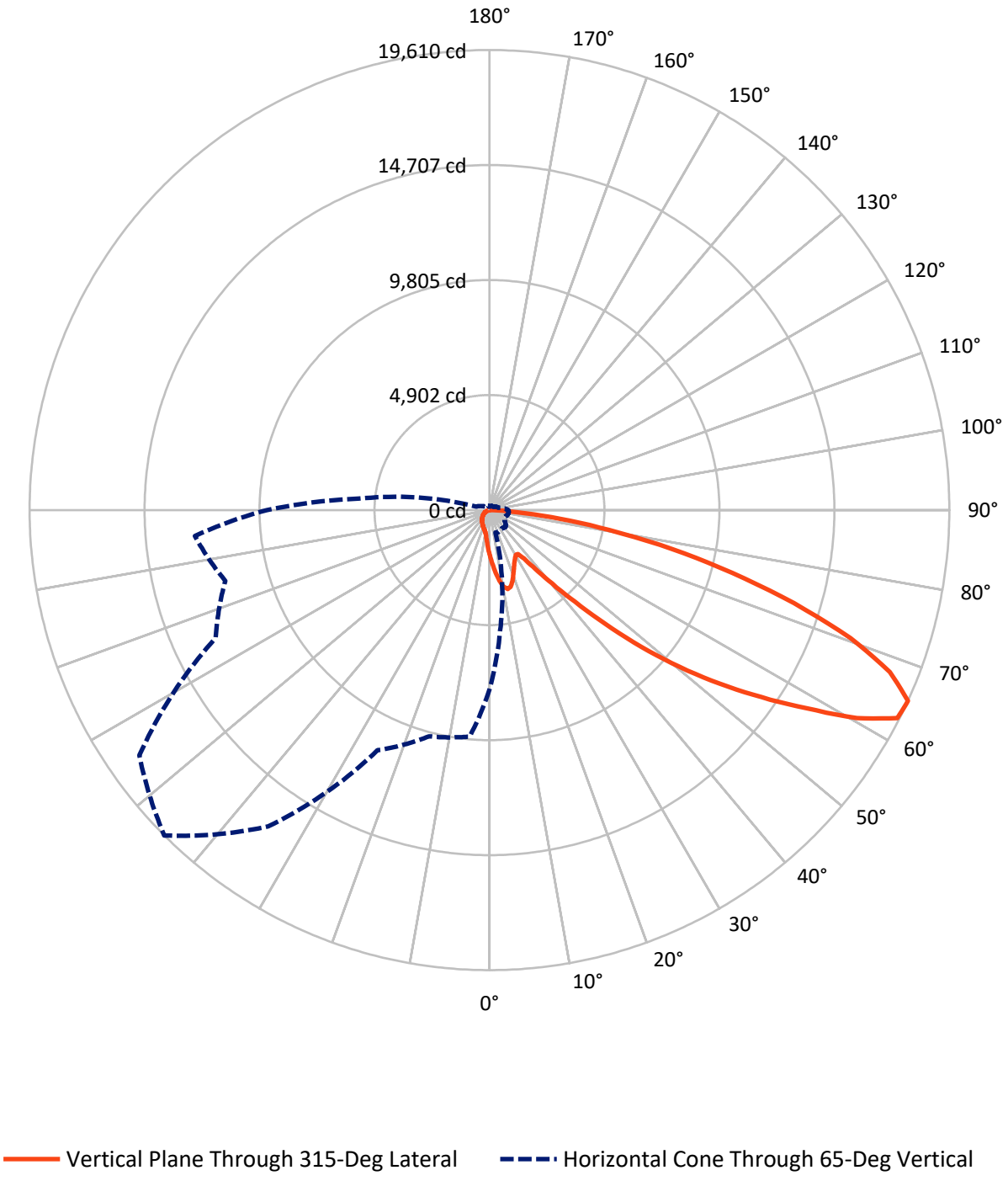

Based on 10 foot mounting height. Maximum calculated value = 26.9 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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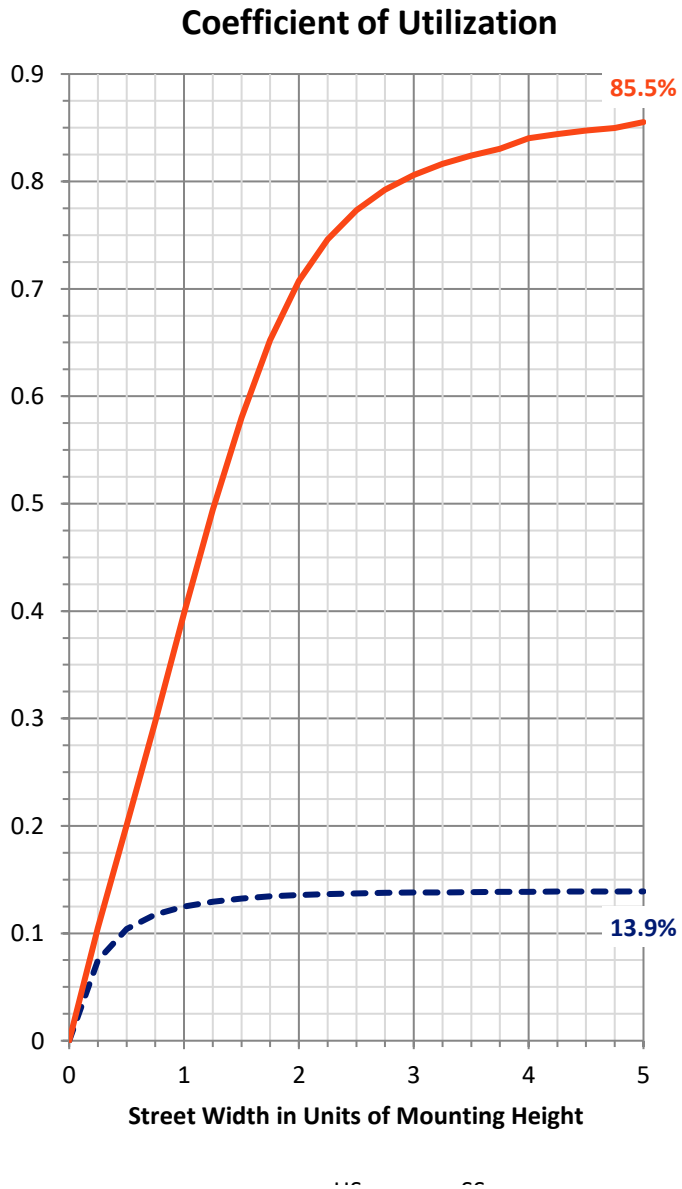
REPORT NUMBER: P1200820
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1954.0 | 0.0 | 1954.0 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| **Street Side** | Lumens | 11999.0 | 0.0 | 11999.0 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| **Total** | Lumens | 13953.0 | 0.0 | 13953.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 190.2 | 1.4 |
| 10°-20° | 570.2 | 4.1 |
| 20°-30° | 840.0 | 6.0 |
| 30°-40° | 1079.2 | 7.7 |
| 40°-50° | 1745.4 | 12.5 |
| 50°-60° | 3060.8 | 21.9 |
| 60°-70° | 3829.8 | 27.4 |
| 70°-80° | 2238.0 | 16.0 |
| 80°-90° | 399.3 | 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° | 13953.0 | 100.0 |
| 0°-180° | 13953.0 | 100.0 |



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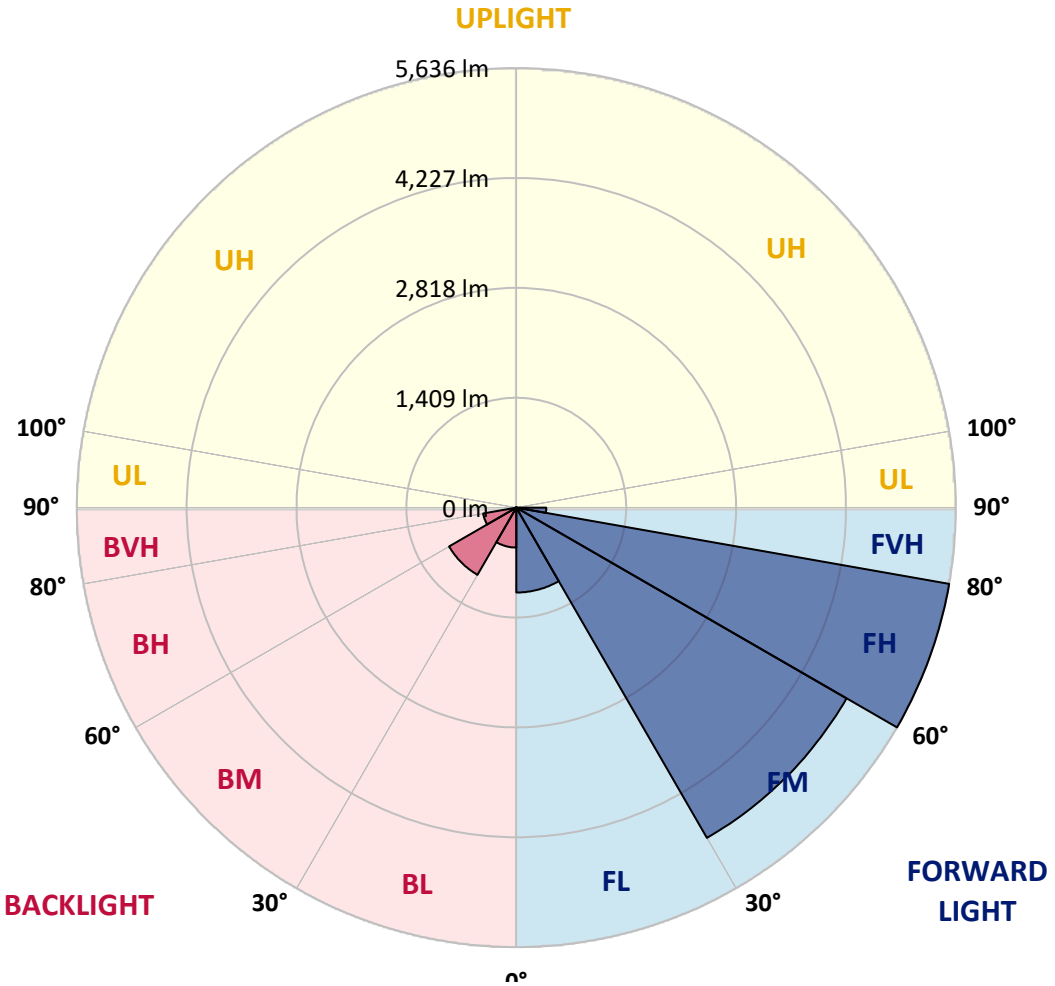
Scaled Data Report

REPORT NUMBER: P1200820
CATALOG NUMBER: GPC-SB2D-830-U-SLR-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1088.3 | 7.8 | | | |
| FM | (30°-60°) | 4890.4 | 35.0 | | | |
| FH | (60°-80°) | 5636.4 | 40.4 | | | G3/7500 |
| FVH | (80°-90°) | 384.0 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 512.2 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 995.0 | 7.1 | B1/1000 | | |
| BH | (60°-80°) | 431.5 | 3.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 15.3 | 0.1 | | | 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° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 |
| 2.5° | 2182.9 | 2145.4 | 2123.3 | 2068.5 | 2013.7 | 1969.5 | 1909.9 | 1870.5 | 1823.4 | 1778.2 | 1737.9 |
| 5° | 2432.8 | 2372.3 | 2299.2 | 2199.3 | 2107.9 | 2014.7 | 1924.4 | 1835.0 | 1740.8 | 1654.3 | 1601.4 |
| 7.5° | 2644.3 | 2556.8 | 2428.0 | 2295.4 | 2179.1 | 2066.6 | 1960.9 | 1842.7 | 1728.3 | 1592.7 | 1520.6 |
| 10° | 2805.8 | 2694.3 | 2525.1 | 2351.1 | 2217.5 | 2104.1 | 2001.3 | 1901.3 | 1785.9 | 1622.5 | 1532.2 |
| 12.5° | 2903.8 | 2784.6 | 2583.7 | 2380.0 | 2227.1 | 2100.3 | 2020.5 | 1976.3 | 1931.1 | 1768.6 | 1662.9 |
| 15° | 2975.9 | 2847.1 | 2625.1 | 2400.2 | 2205.0 | 2049.3 | 1990.7 | 2034.9 | 2086.8 | 1983.0 | 1860.9 |
| 17.5° | 3050.9 | 2915.4 | 2678.9 | 2408.8 | 2145.4 | 1950.3 | 1925.3 | 2039.7 | 2159.9 | 2155.0 | 2033.9 |
| 20° | 3122.0 | 2987.5 | 2726.0 | 2403.0 | 2049.3 | 1830.2 | 1852.3 | 1998.4 | 2137.7 | 2196.4 | 2131.0 |
| 22.5° | 3203.7 | 3061.5 | 2771.2 | 2380.9 | 1924.4 | 1717.7 | 1786.9 | 1933.0 | 2055.1 | 2124.3 | 2104.1 |
| 25° | 3303.7 | 3154.7 | 2834.6 | 2348.3 | 1789.8 | 1624.5 | 1720.6 | 1857.1 | 1956.1 | 2004.1 | 2003.2 |
| 27.5° | 3411.4 | 3266.2 | 2919.2 | 2330.9 | 1681.2 | 1558.1 | 1645.6 | 1766.7 | 1855.1 | 1888.8 | 1888.8 |
| 30° | 3545.0 | 3396.0 | 3019.2 | 2311.7 | 1610.0 | 1519.7 | 1567.7 | 1661.9 | 1748.5 | 1782.1 | 1782.1 |
| 32.5° | 3691.1 | 3540.2 | 3115.3 | 2265.6 | 1566.8 | 1490.8 | 1491.8 | 1551.4 | 1630.2 | 1670.6 | 1676.4 |
| 35° | 3873.7 | 3713.2 | 3218.2 | 2164.7 | 1532.2 | 1457.2 | 1417.8 | 1446.6 | 1512.0 | 1560.1 | 1572.5 |
| 37.5° | 4134.2 | 3940.0 | 3344.1 | 2020.5 | 1481.2 | 1405.3 | 1339.9 | 1346.7 | 1396.6 | 1449.5 | 1468.7 |
| 40° | 4493.7 | 4244.7 | 3492.1 | 1870.5 | 1408.2 | 1332.2 | 1254.4 | 1251.5 | 1288.0 | 1339.9 | 1361.1 |
| 42.5° | 4980.1 | 4647.5 | 3669.9 | 1727.3 | 1338.0 | 1243.8 | 1164.0 | 1159.2 | 1188.1 | 1233.2 | 1255.3 |
| 45° | 5622.2 | 5162.7 | 3888.1 | 1604.3 | 1283.2 | 1157.3 | 1078.5 | 1076.6 | 1100.6 | 1140.0 | 1163.1 |
| 47.5° | 6444.0 | 5878.8 | 4106.3 | 1520.6 | 1254.4 | 1089.1 | 1008.3 | 1012.2 | 1033.3 | 1068.9 | 1085.2 |
| 50° | 7508.1 | 6812.1 | 4172.6 | 1478.4 | 1254.4 | 1052.5 | 945.8 | 965.1 | 982.4 | 1009.3 | 1018.9 |
| 52.5° | 8783.6 | 7708.0 | 3953.5 | 1439.9 | 1262.1 | 1057.3 | 893.0 | 934.3 | 946.8 | 969.9 | 973.7 |
| 55° | 9965.9 | 8147.3 | 3398.9 | 1387.0 | 1264.0 | 1087.1 | 847.8 | 909.3 | 932.4 | 941.0 | 940.1 |
| 57.5° | 10652.2 | 7996.4 | 2748.1 | 1297.6 | 1256.3 | 1107.3 | 819.0 | 878.6 | 922.8 | 928.5 | 919.9 |
| 60° | 10521.5 | 7466.7 | 2023.4 | 1229.4 | 1199.6 | 1099.6 | 810.3 | 831.5 | 901.6 | 910.3 | 898.7 |
| 62.5° | 9514.1 | 6578.6 | 1404.3 | 1176.5 | 1074.6 | 1066.0 | 807.4 | 757.4 | 855.5 | 876.6 | 860.3 |
| 65° | *7647.4* | *5179.0* | *992.0* | *1013.1* | *942.0* | *992.9* | *792.0* | *680.5* | *799.7* | *828.6* | *803.6* |
| 67.5° | 5548.1 | 3504.6 | 716.1 | 820.9 | 853.6 | 874.7 | 757.4 | 624.8 | 736.3 | 774.7 | 742.1 |
| 70° | 3560.3 | 1892.6 | 502.7 | 542.1 | 719.0 | 743.0 | 697.8 | 574.8 | 671.9 | 716.1 | 680.5 |
| 72.5° | 2530.9 | 1117.9 | 361.4 | 379.7 | 577.7 | 619.0 | 614.2 | 519.1 | 596.9 | 650.7 | 608.4 |
| 75° | 1746.5 | 616.1 | 244.1 | 271.1 | 419.1 | 502.7 | 473.9 | 446.0 | 505.6 | 560.4 | 519.1 |
| 77.5° | 1094.8 | 275.9 | 146.1 | 188.4 | 274.9 | 395.1 | 324.9 | 345.1 | 394.1 | 445.0 | 401.8 |
| 80° | 609.4 | 106.7 | 81.7 | 125.0 | 149.9 | 287.4 | 179.7 | 222.0 | 290.3 | 326.8 | 292.2 |
| 82.5° | 132.6 | 13.5 | 36.5 | 53.8 | 58.6 | 167.3 | 95.2 | 128.8 | 182.6 | 179.7 | 155.7 |
| 85° | 0.0 | 0.0 | 6.7 | 7.7 | 3.8 | 72.1 | 34.6 | 42.3 | 59.6 | 55.8 | 42.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 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° | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 |
| 2.5° | 1730.2 | 1683.1 | 1648.5 | 1631.2 | 1616.8 | 1630.2 | 1637.9 | 1637.9 | 1670.6 | 1689.8 | 1697.5 |
| 5° | 1567.7 | 1483.2 | 1418.8 | 1375.5 | 1349.5 | 1358.2 | 1367.8 | 1378.4 | 1419.7 | 1447.6 | 1465.9 |
| 7.5° | 1455.3 | 1325.5 | 1227.5 | 1166.9 | 1135.2 | 1140.0 | 1146.7 | 1155.4 | 1195.8 | 1223.6 | 1247.7 |
| 10° | 1434.1 | 1247.7 | 1109.2 | 1029.5 | 991.0 | 984.3 | 980.4 | 977.6 | 1001.6 | 1022.7 | 1042.0 |
| 12.5° | 1520.6 | 1251.5 | 1058.3 | 961.2 | 914.1 | 893.9 | 870.9 | 852.6 | 856.4 | 869.9 | 893.9 |
| 15° | 1675.4 | 1300.5 | 1042.0 | 925.7 | 867.0 | 833.4 | 806.5 | 784.4 | 779.5 | 784.4 | 788.2 |
| 17.5° | 1852.3 | 1366.8 | 1040.0 | 894.9 | 821.8 | 787.2 | 765.1 | 744.9 | 738.2 | 739.2 | 744.0 |
| 20° | 1969.5 | 1419.7 | 1034.3 | 860.3 | 778.6 | 747.8 | 728.6 | 708.4 | 701.7 | 703.6 | 704.6 |
| 22.5° | 1981.1 | 1447.6 | 1025.6 | 821.8 | 735.3 | 709.4 | 690.2 | 671.9 | 670.9 | 670.9 | 676.7 |
| 25° | 1918.6 | 1447.6 | 1007.4 | 787.2 | 694.0 | 670.9 | 653.6 | 631.5 | 635.4 | 637.3 | 645.0 |
| 27.5° | 1821.5 | 1413.0 | 972.8 | 759.4 | 658.4 | 634.4 | 617.1 | 596.9 | 601.7 | 604.6 | 613.3 |
| 30° | 1725.4 | 1368.8 | 931.4 | 727.6 | 624.8 | 596.9 | 584.4 | 567.1 | 569.0 | 572.9 | 582.5 |
| 32.5° | 1636.0 | 1321.7 | 882.4 | 701.7 | 591.1 | 563.3 | 553.7 | 534.4 | 537.3 | 541.2 | 551.7 |
| 35° | 1547.6 | 1269.8 | 824.7 | 670.9 | 560.4 | 532.5 | 524.8 | 502.7 | 504.6 | 510.4 | 521.9 |
| 37.5° | 1452.4 | 1215.0 | 777.6 | 640.2 | 530.6 | 501.8 | 494.1 | 471.0 | 472.9 | 479.6 | 493.1 |
| 40° | 1352.4 | 1161.1 | 731.5 | 607.5 | 498.9 | 470.0 | 463.3 | 438.3 | 440.2 | 447.9 | 462.3 |
| 42.5° | 1251.5 | 1102.5 | 695.9 | 565.2 | 466.2 | 435.4 | 428.7 | 405.6 | 408.5 | 417.2 | 431.6 |
| 45° | 1158.3 | 1032.3 | 672.9 | 518.1 | 435.4 | 400.8 | 394.1 | 373.0 | 378.7 | 388.3 | 402.7 |
| 47.5° | 1078.5 | 960.3 | 663.2 | 478.7 | 402.7 | 365.3 | 359.5 | 342.2 | 351.8 | 362.4 | 373.9 |
| 50° | 1010.2 | 891.0 | 650.7 | 438.3 | 372.0 | 334.5 | 328.7 | 317.2 | 329.7 | 340.3 | 350.8 |
| 52.5° | 961.2 | 812.2 | 623.8 | 401.8 | 345.1 | 308.6 | 306.6 | 300.9 | 312.4 | 322.0 | 331.6 |
| 55° | 918.9 | 730.5 | 580.6 | 370.1 | 321.0 | 286.4 | 288.4 | 285.5 | 295.1 | 302.8 | 311.4 |
| 57.5° | 880.5 | 659.4 | 525.8 | 345.1 | 295.1 | 267.2 | 273.0 | 269.1 | 273.9 | 278.8 | 289.3 |
| 60° | 834.3 | 587.3 | 460.4 | 317.2 | 264.3 | 248.0 | 254.7 | 244.1 | 243.2 | 245.1 | 248.0 |
| 62.5° | 766.1 | 490.2 | 392.2 | 282.6 | 237.4 | 226.8 | 229.7 | 209.5 | 194.2 | 194.2 | 197.0 |
| 65° | *670.9* | *394.1* | *328.7* | *244.1* | *206.7* | *198.0* | *196.1* | *167.3* | *146.1* | *144.2* | *152.8* |
| 67.5° | 560.4 | 323.9 | 273.0 | 205.7 | 172.1 | 166.3 | 168.2 | 147.1 | 125.9 | 124.0 | 133.6 |
| 70° | 456.6 | 268.2 | 220.1 | 164.4 | 132.6 | 138.4 | 147.1 | 125.9 | 105.7 | 102.9 | 111.5 |
| 72.5° | 371.0 | 213.4 | 172.1 | 125.9 | 98.0 | 114.4 | 125.0 | 102.9 | 83.6 | 81.7 | 89.4 |
| 75° | 286.4 | 156.7 | 123.0 | 85.5 | 71.1 | 88.4 | 98.0 | 75.0 | 59.6 | 56.7 | 63.4 |
| 77.5° | 191.3 | 97.1 | 69.2 | 53.8 | 42.3 | 60.6 | 65.4 | 39.4 | 34.6 | 33.6 | 38.4 |
| 80° | 116.3 | 45.2 | 29.8 | 26.0 | 14.4 | 22.1 | 26.0 | 16.3 | 18.3 | 19.2 | 23.1 |
| 82.5° | 58.6 | 12.5 | 4.8 | 1.0 | 0.0 | 0.0 | 7.7 | 3.8 | 7.7 | 9.6 | 14.4 |
| 85° | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 4.8 | 8.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 |
| 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° | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 |
| 2.5° | 1751.3 | 1791.7 | 1830.2 | 1891.7 | 1955.1 | 2017.6 | 2081.0 | 2142.6 | 2164.7 | 2181.0 | 2217.5 |
| 5° | 1549.5 | 1625.4 | 1713.8 | 1835.9 | 1966.6 | 2101.2 | 2237.7 | 2362.7 | 2419.4 | 2457.8 | 2544.3 |
| 7.5° | 1340.9 | 1439.9 | 1566.8 | 1750.4 | 1955.1 | 2169.5 | 2383.8 | 2580.9 | 2672.2 | 2746.2 | 2877.9 |
| 10° | 1134.2 | 1241.9 | 1402.4 | 1612.0 | 1888.8 | 2196.4 | 2492.4 | 2763.5 | 2881.7 | 2975.0 | 3153.7 |
| 12.5° | 952.6 | 1053.5 | 1221.7 | 1453.4 | 1785.0 | 2175.2 | 2554.9 | 2880.8 | 3020.1 | 3124.9 | 3321.0 |
| 15° | 824.7 | 895.9 | 1044.8 | 1294.8 | 1661.9 | 2107.0 | 2558.8 | 2936.5 | 3089.3 | 3198.9 | 3369.1 |
| 17.5° | 753.6 | 777.6 | 874.7 | 1133.3 | 1525.4 | 2017.6 | 2523.2 | 2955.7 | 3119.1 | 3221.0 | 3339.3 |
| 20° | 715.1 | 719.0 | 745.9 | 923.7 | 1350.5 | 1934.0 | 2489.5 | 2975.0 | 3147.0 | 3232.6 | 3268.1 |
| 22.5° | 684.4 | 684.4 | 691.1 | 755.5 | 1124.6 | 1834.0 | 2479.0 | 3008.6 | 3185.5 | 3238.3 | 3165.3 |
| 25° | 656.5 | 656.5 | 658.4 | 675.7 | 891.0 | 1681.2 | 2472.2 | 3060.5 | 3238.3 | 3252.8 | 3051.9 |
| 27.5° | 627.7 | 628.6 | 628.6 | 638.2 | 718.0 | 1473.5 | 2443.4 | 3127.8 | 3301.8 | 3272.0 | 2943.2 |
| 30° | 598.8 | 600.8 | 600.8 | 607.5 | 635.4 | 1230.4 | 2386.7 | 3208.5 | 3384.4 | 3297.0 | 2835.6 |
| 32.5° | 570.0 | 571.9 | 571.9 | 577.7 | 597.9 | 982.4 | 2315.6 | 3282.6 | 3468.1 | 3307.5 | 2735.6 |
| 35° | 540.2 | 543.1 | 541.2 | 548.9 | 570.0 | 781.5 | 2225.2 | 3356.6 | 3558.4 | 3341.2 | 2686.6 |
| 37.5° | 510.4 | 512.3 | 511.4 | 519.1 | 543.1 | 674.8 | 2120.4 | 3412.3 | 3681.5 | 3416.2 | 2745.2 |
| 40° | 480.6 | 479.6 | 479.6 | 488.3 | 514.3 | 644.0 | 1988.8 | 3500.7 | 3858.3 | 3547.8 | 3000.9 |
| 42.5° | 449.8 | 449.8 | 447.9 | 457.5 | 489.3 | 620.9 | 1862.8 | 3659.3 | 4115.9 | 3757.4 | 3454.6 |
| 45° | 422.0 | 421.0 | 417.2 | 425.8 | 465.2 | 580.6 | 1818.6 | 3955.4 | 4496.6 | 4096.7 | 4003.5 |
| 47.5° | 395.1 | 394.1 | 384.5 | 392.2 | 436.4 | 544.0 | 1983.9 | 4439.9 | 5024.3 | 4595.6 | 4517.7 |
| 50° | 371.0 | 372.0 | 353.7 | 360.5 | 407.6 | 516.2 | 2342.5 | 5068.5 | 5725.0 | 5267.5 | 5005.1 |
| 52.5° | 348.9 | 348.9 | 324.9 | 328.7 | 372.0 | 491.2 | 2683.7 | 5750.0 | 6649.7 | 6204.6 | 5573.1 |
| 55° | 326.8 | 324.9 | 298.0 | 299.9 | 336.4 | 455.6 | 2734.7 | 6415.2 | 7910.8 | 7614.8 | 6349.8 |
| 57.5° | 301.8 | 298.0 | 273.0 | 273.0 | 303.7 | 429.7 | 2370.4 | 6926.5 | 9475.7 | 9687.1 | 7469.6 |
| 60° | 271.1 | 268.2 | 251.8 | 247.0 | 277.8 | 452.7 | 1672.5 | 6986.1 | 10484.9 | 12442.9 | 9614.1 |
| 62.5° | 231.7 | 235.5 | 226.8 | 220.1 | 252.8 | 470.0 | 991.0 | 6506.5 | 10240.8 | 13319.6 | 12182.5 |
| 65° | *182.6* | *198.0* | *196.1* | *191.3* | *277.8* | *396.0* | *585.4* | *5585.6* | *9492.0* | *12612.1* | *11658.6* |
| 67.5° | 155.7 | 166.3 | 163.4 | 163.4 | 291.2 | 300.9 | 368.1 | 4363.9 | 8461.6 | 11773.0 | 10413.8 |
| 70° | 132.6 | 143.2 | 132.6 | 132.6 | 220.1 | 182.6 | 254.7 | 3047.1 | 7349.5 | 10844.4 | 9596.8 |
| 72.5° | 109.6 | 120.2 | 108.6 | 100.9 | 175.9 | 136.5 | 186.5 | 1904.2 | 6294.0 | 9877.5 | 9037.4 |
| 75° | 83.6 | 96.1 | 87.5 | 77.9 | 116.3 | 101.9 | 141.3 | 1106.4 | 5214.6 | 8451.0 | 8240.5 |
| 77.5° | 52.9 | 69.2 | 65.4 | 54.8 | 85.5 | 74.0 | 101.9 | 658.4 | 4023.6 | 6603.6 | 7088.0 |
| 80° | 32.7 | 35.6 | 36.5 | 34.6 | 49.0 | 50.0 | 69.2 | 374.9 | 2753.9 | 4602.3 | 5537.6 |
| 82.5° | 21.1 | 21.1 | 16.3 | 18.3 | 24.0 | 28.8 | 39.4 | 141.3 | 1618.7 | 2801.9 | 3854.5 |
| 85° | 15.4 | 13.5 | 8.7 | 8.7 | 11.5 | 14.4 | 15.4 | 43.3 | 656.5 | 1106.4 | 1507.2 |
| 87.5° | 7.7 | 6.7 | 2.9 | 3.8 | 5.8 | 4.8 | 3.8 | 1.9 | 165.3 | 353.7 | 248.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1200820
CATALOG NUMBER: GPC-SB2D-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 1932.0 | 1932.0 | *1932.0* | 1932.0 | 1932.0 | 1932.0 | 1932.0 | 1932.0 |
| 2.5° | 2236.7 | 2266.5 | *2268.5* | 2268.5 | 2242.5 | 2241.6 | 2188.7 | 2182.9 |
| 5° | 2633.7 | 2653.0 | *2657.8* | 2648.1 | 2596.2 | 2557.8 | 2454.9 | 2432.8 |
| 7.5° | 2997.1 | 3035.5 | *3035.5* | 3012.5 | 2927.9 | 2849.0 | 2700.1 | 2644.3 |
| 10° | 3287.4 | 3331.6 | *3322.0* | 3274.9 | 3168.2 | 3059.6 | 2878.8 | 2805.8 |
| 12.5° | 3428.7 | 3473.8 | *3448.8* | 3395.0 | 3291.2 | 3176.8 | 2986.5 | 2903.8 |
| 15° | 3425.8 | 3413.3 | *3387.3* | 3380.6 | 3330.6 | 3244.1 | 3066.3 | 2975.9 |
| 17.5° | 3303.7 | 3198.0 | *3177.8* | 3245.1 | 3308.5 | 3287.4 | 3135.5 | 3050.9 |
| 20° | 3110.5 | 2925.9 | *2907.7* | 3036.5 | 3217.2 | 3309.5 | 3199.9 | 3122.0 |
| 22.5° | 2906.7 | 2707.7 | *2665.5* | 2807.7 | 3079.7 | 3316.2 | 3281.6 | 3203.7 |
| 25° | 2713.5 | 2513.6 | *2471.3* | 2603.9 | 2926.9 | 3304.7 | 3370.0 | 3303.7 |
| 27.5° | 2552.0 | 2358.8 | *2319.4* | 2452.1 | 2779.8 | 3272.0 | 3458.5 | 3411.4 |
| 30° | 2427.1 | 2248.3 | *2219.4* | 2347.3 | 2653.0 | 3231.6 | 3570.9 | 3545.0 |
| 32.5° | 2354.0 | 2223.3 | *2233.9* | 2338.6 | 2584.7 | 3187.4 | 3678.6 | 3691.1 |
| 35° | 2426.1 | 2431.9 | *2524.2* | 2567.4 | 2648.1 | 3180.7 | 3824.7 | 3873.7 |
| 37.5° | 2784.6 | 2984.6 | *3175.9* | 3140.3 | 2958.6 | 3258.5 | 4042.9 | 4134.2 |
| 40° | 3395.0 | 3805.5 | *4115.9* | 3980.4 | 3522.9 | 3496.9 | 4357.2 | 4493.7 |
| 42.5° | 4140.9 | 4836.8 | *5348.2* | 4984.9 | 4250.5 | 3914.1 | 4806.1 | 4980.1 |
| 45° | 4928.2 | 6108.5 | *6914.0* | 6158.5 | 5026.2 | 4498.5 | 5485.7 | 5622.2 |
| 47.5° | 5757.7 | 7654.2 | *8696.1* | 7460.0 | 5745.2 | 5163.7 | 6412.3 | 6444.0 |
| 50° | 6665.1 | 9348.8 | *10512.8* | 8760.5 | 6439.2 | 5925.9 | 7544.6 | 7508.1 |
| 52.5° | 7529.2 | 11091.5 | *12291.1* | 10066.8 | 7048.6 | 6871.7 | 8858.6 | 8783.6 |
| 55° | 8353.9 | 12833.2 | *14079.9* | 11322.2 | 7623.4 | 8121.3 | 10419.6 | 9965.9 |
| 57.5° | 9310.3 | 14399.0 | *15923.5* | 12583.3 | 8427.0 | 9743.8 | 12165.1 | 10652.2 |
| 60° | 10724.3 | 16178.2 | *18008.4* | 14311.5 | 9955.3 | 11449.0 | 12790.9 | 10521.5 |
| 62.5° | 12529.4 | 17814.2 | *19524.2* | 16005.2 | 11490.4 | 11770.1 | 11869.1 | 9514.1 |
| 65° | *12880.3* | *18228.5* | *19609.8* | *16457.9* | *11292.4* | *9984.1* | *9690.0* | *7647.4* |
| 67.5° | 11949.8 | 17479.7 | *18414.0* | 15615.0 | 9989.0 | 7715.7 | 7271.6 | 5548.1 |
| 70° | 10906.0 | 16052.3 | *16330.1* | 14181.8 | 8785.5 | 5675.0 | 4910.9 | 3560.3 |
| 72.5° | 9836.1 | 14148.1 | *13573.3* | 12316.1 | 7721.4 | 4132.3 | 3542.1 | 2530.9 |
| 75° | 8565.4 | 11644.2 | *10691.6* | 10233.1 | 6393.0 | 3243.1 | 2562.6 | 1746.5 |
| 77.5° | 6859.2 | 8196.3 | *7941.6* | 7932.0 | 4804.2 | 2369.4 | 1710.0 | 1094.8 |
| 80° | 4838.8 | 5319.4 | *5189.6* | 5974.0 | 3223.0 | 1718.7 | 1029.5 | 609.4 |
| 82.5° | 2342.5 | 2941.3 | *3019.2* | 3557.5 | 1567.7 | 1011.2 | 237.4 | 132.6 |
| 85° | 917.0 | 1418.8 | *1196.7* | 1350.5 | 440.2 | 281.6 | 5.8 | 0.0 |
| 87.5° | 102.9 | 164.4 | *150.9* | 119.2 | 53.8 | 11.5 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
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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

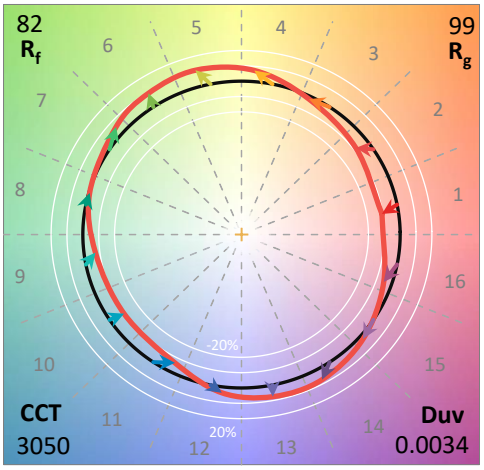
## Test Information

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

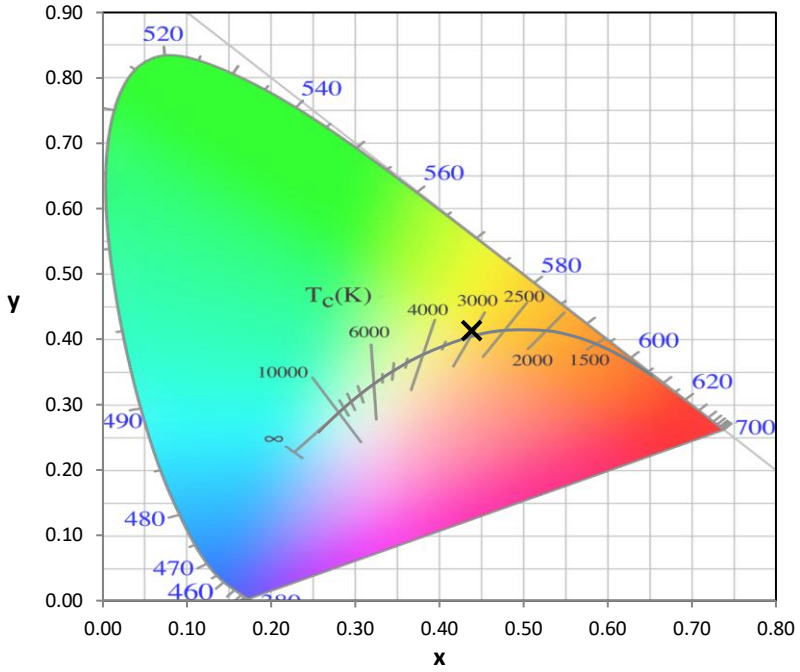
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.2 |

REPORT NUMBER: SP1-2408-195-9

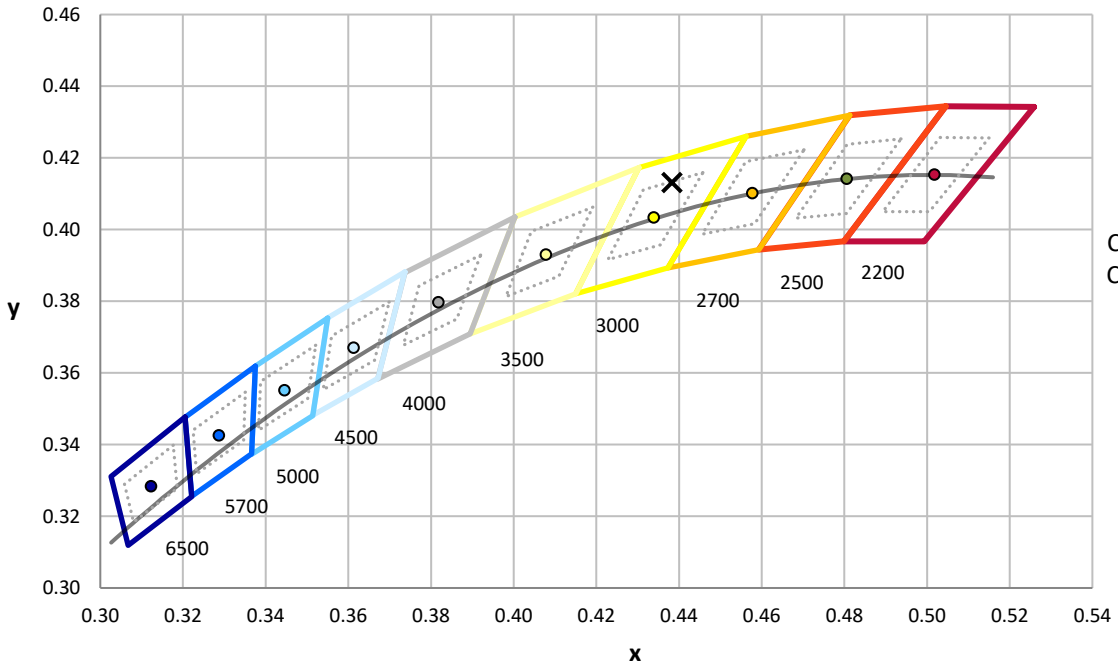
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

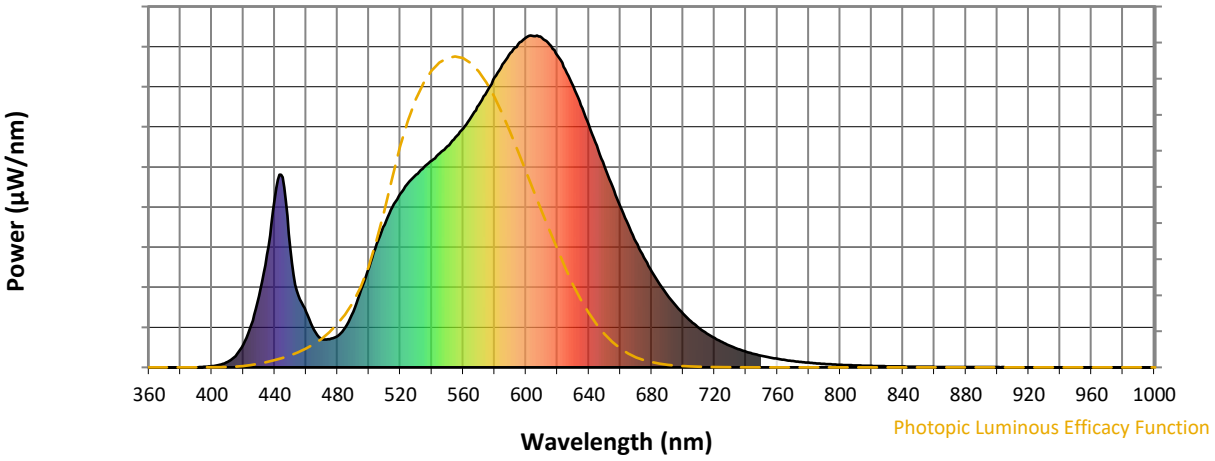



CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

## Photopic Flux vs. Wavelength

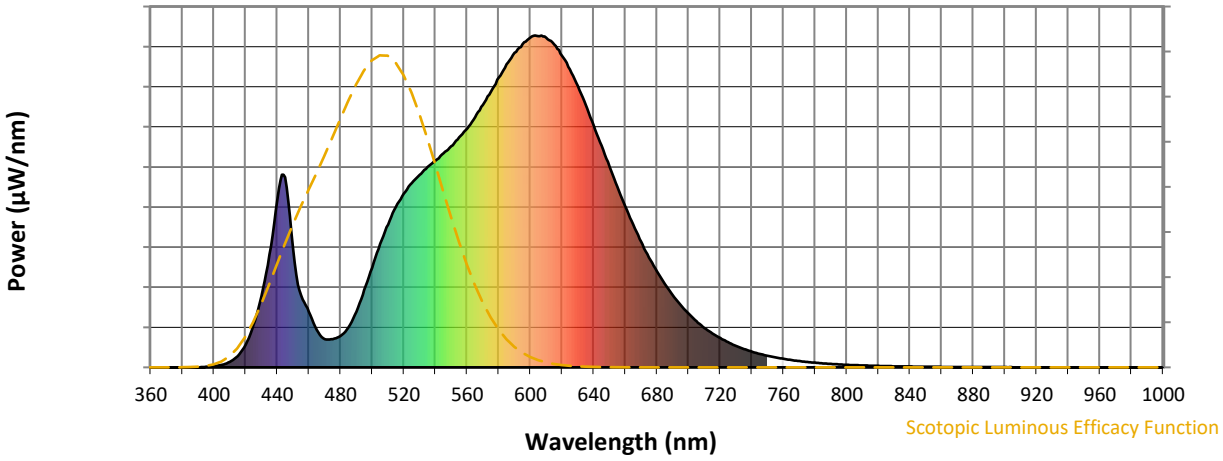



## Photopic Lumens: NR

| 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

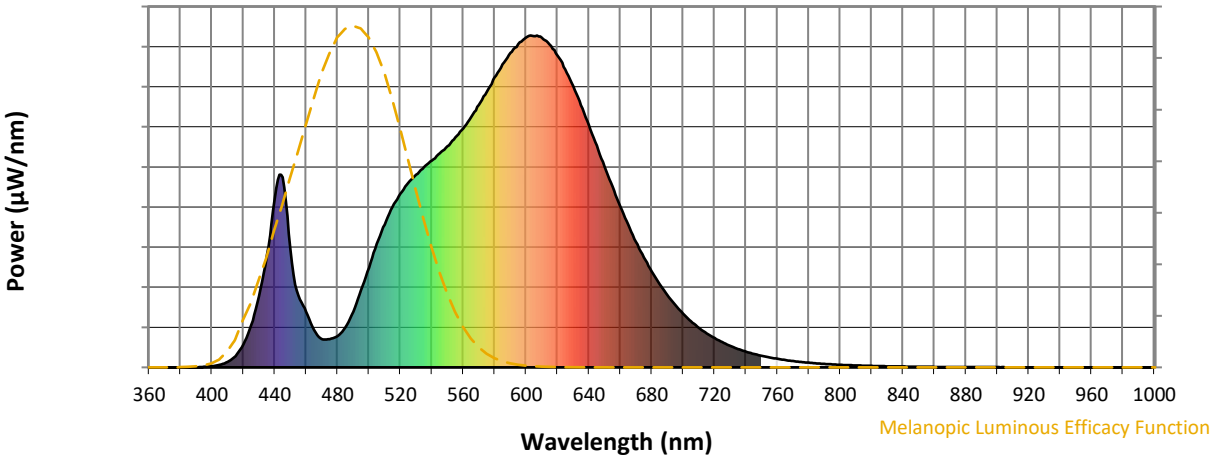



**Scotopic Lumens: NR** **S/P: 1.27**

| 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 | | | |

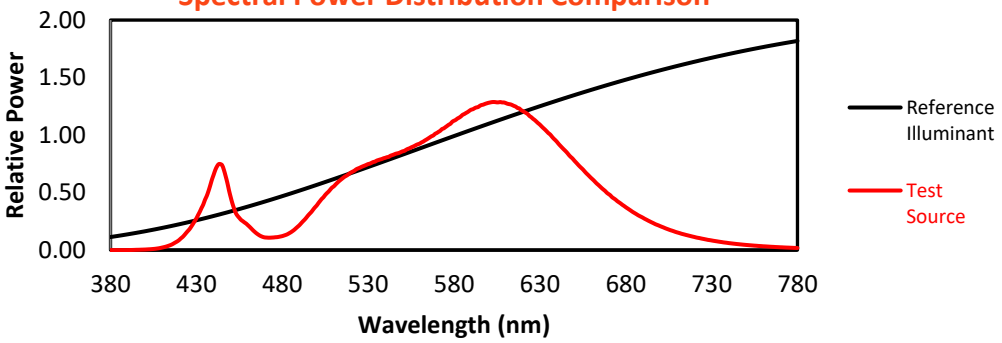
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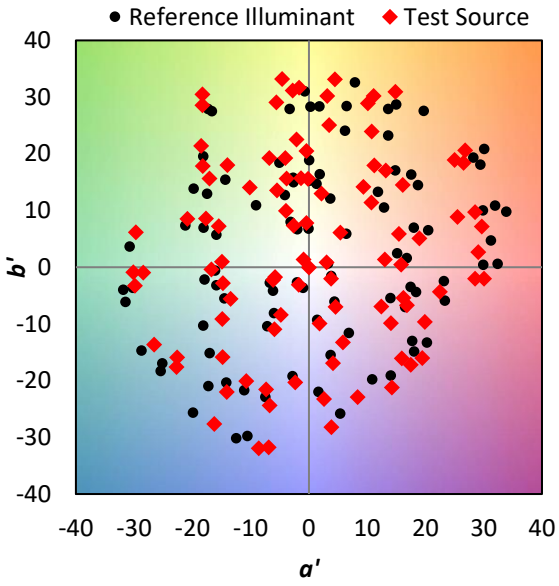
## Summary

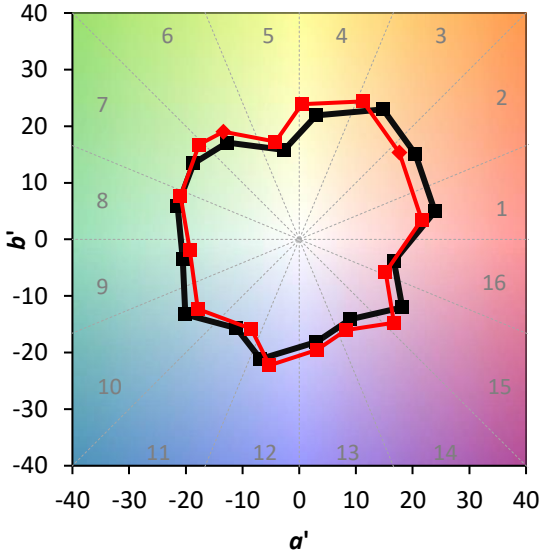
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 81.0
$R_9$ = 7.1

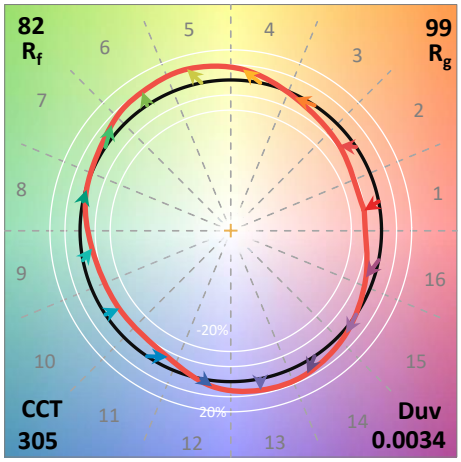
## Spectral Power Distribution Comparison

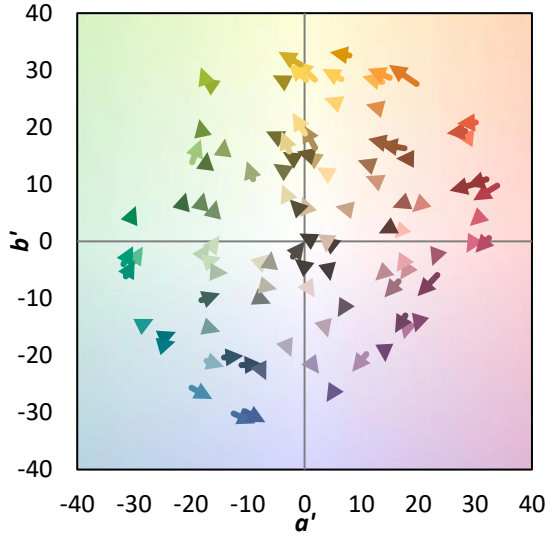



## Color Vector Graphics



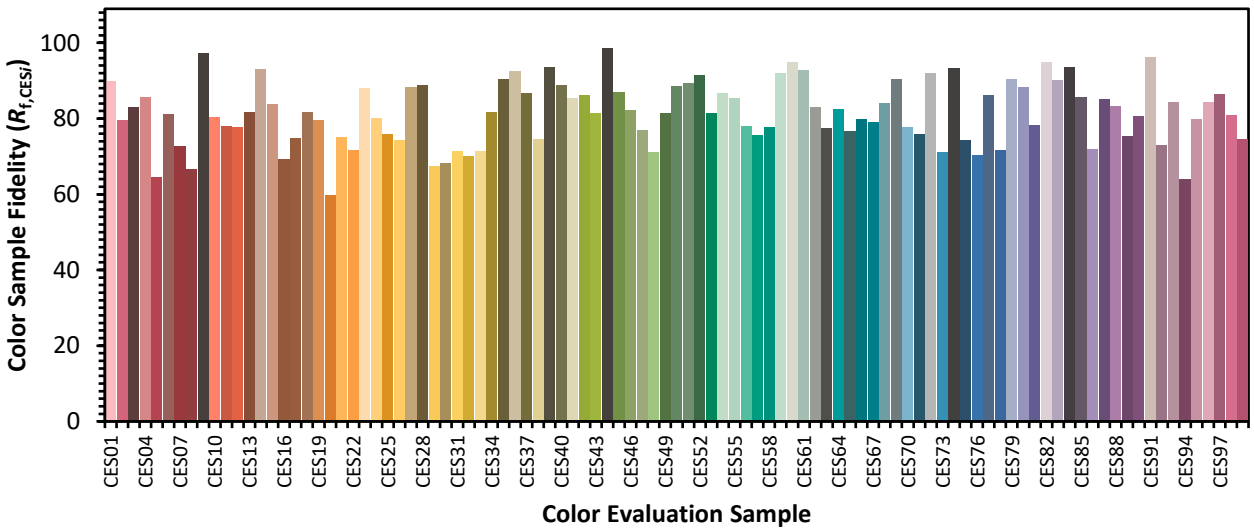



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**Individual Sample Fidelity Index ($R_{f,i}$)**

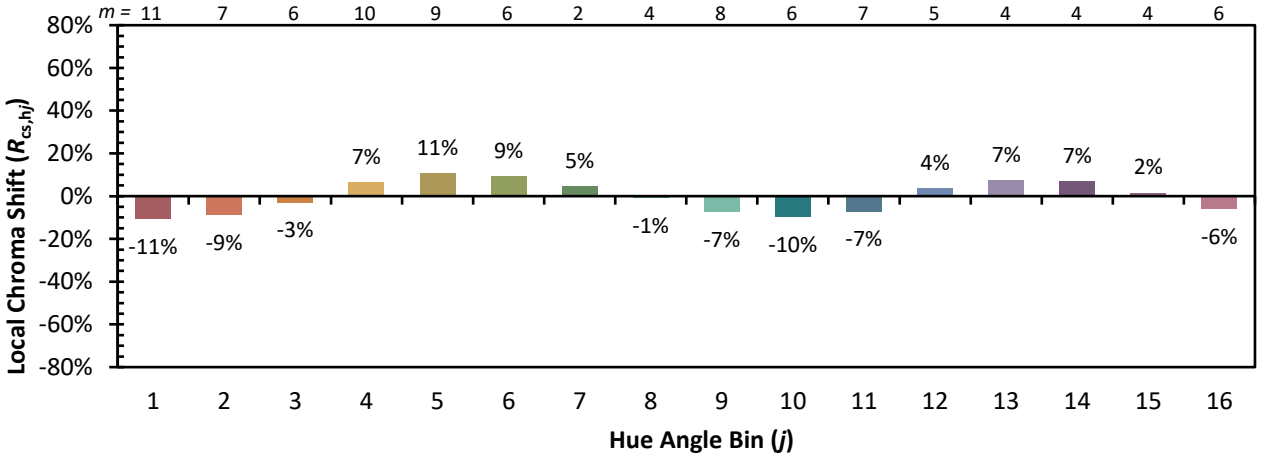
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 92 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 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 | |

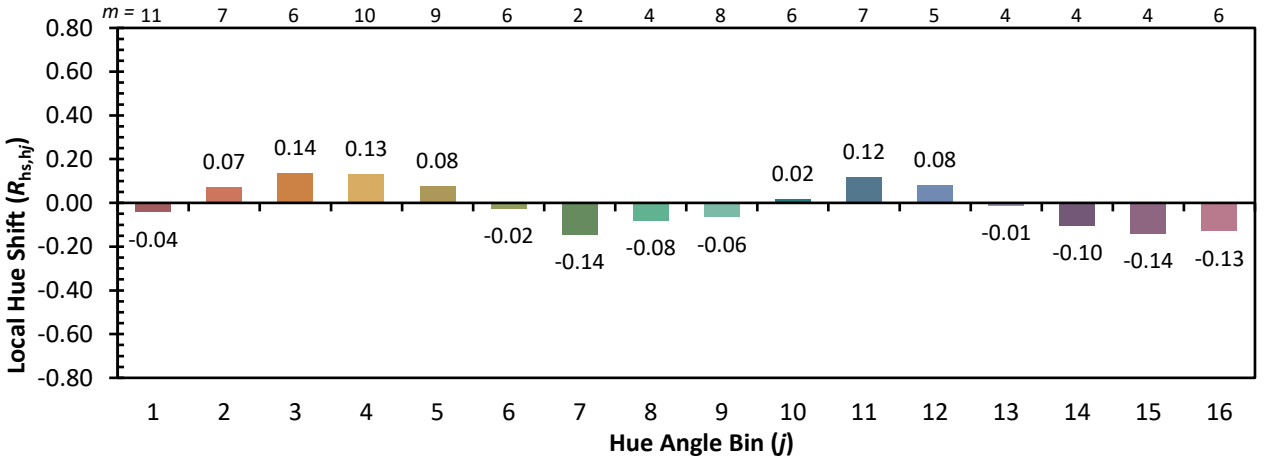


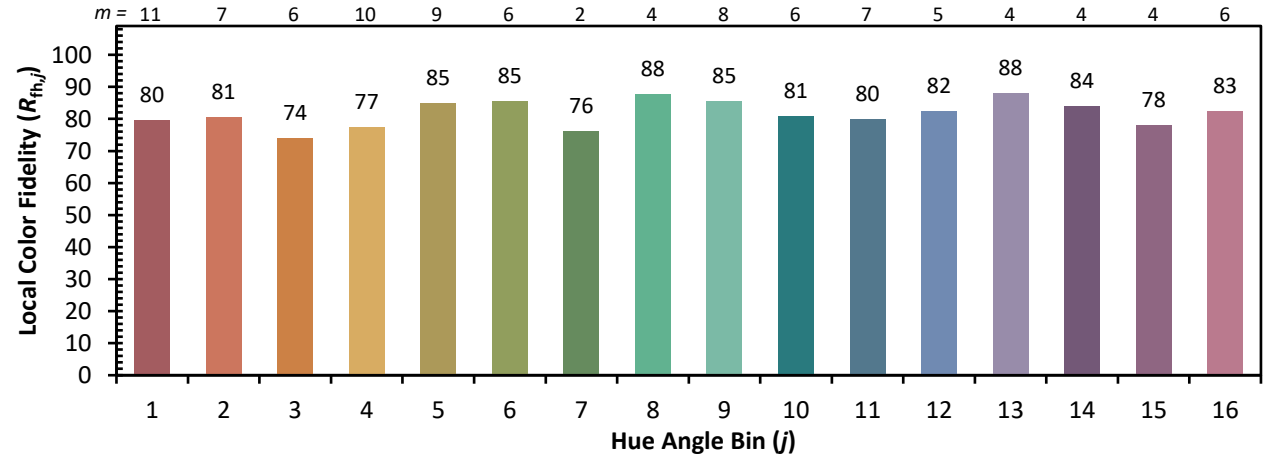
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## Color Rendition by Hue-Angle Bin



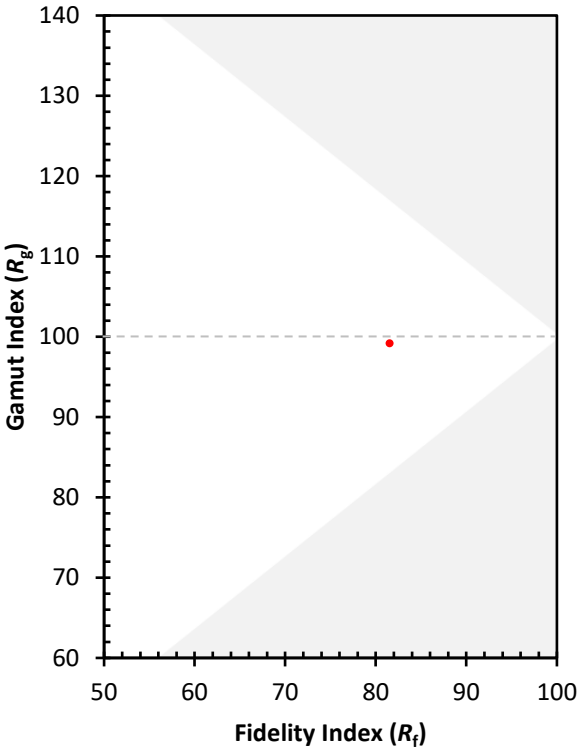



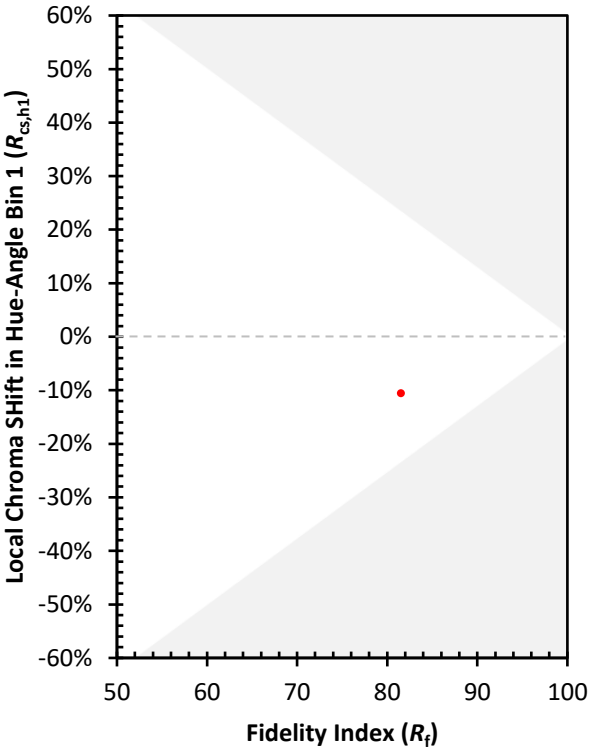



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## Measure Comparisons




(END OF REPORT)