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: P1501620

Luminaire Tested: GSS-SB2D-927-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501620 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2D-927-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 90CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (52) 2700K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11512.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 78.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

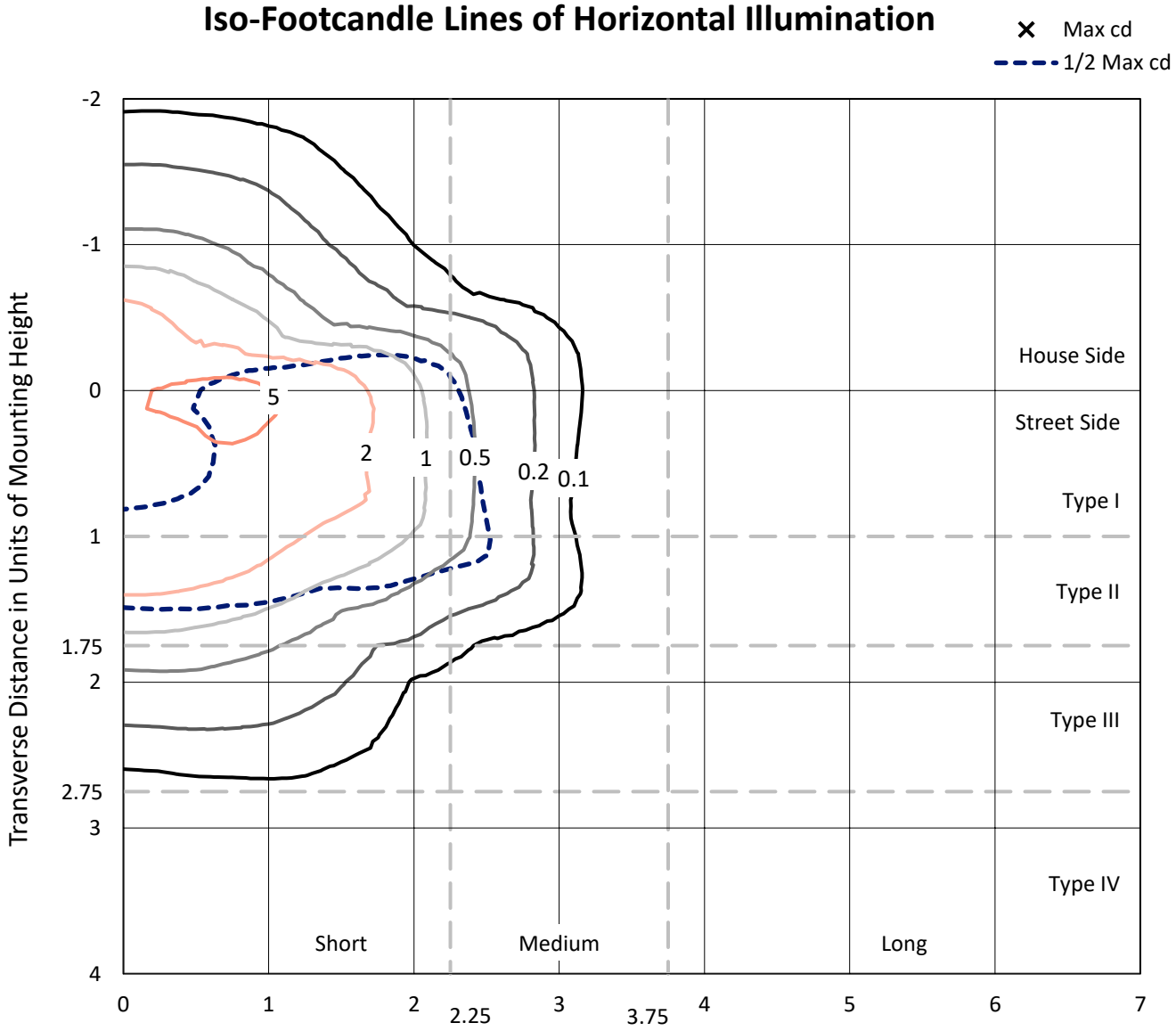
| | |
|---|---|
| Input Watts (W): | 147 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 3.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



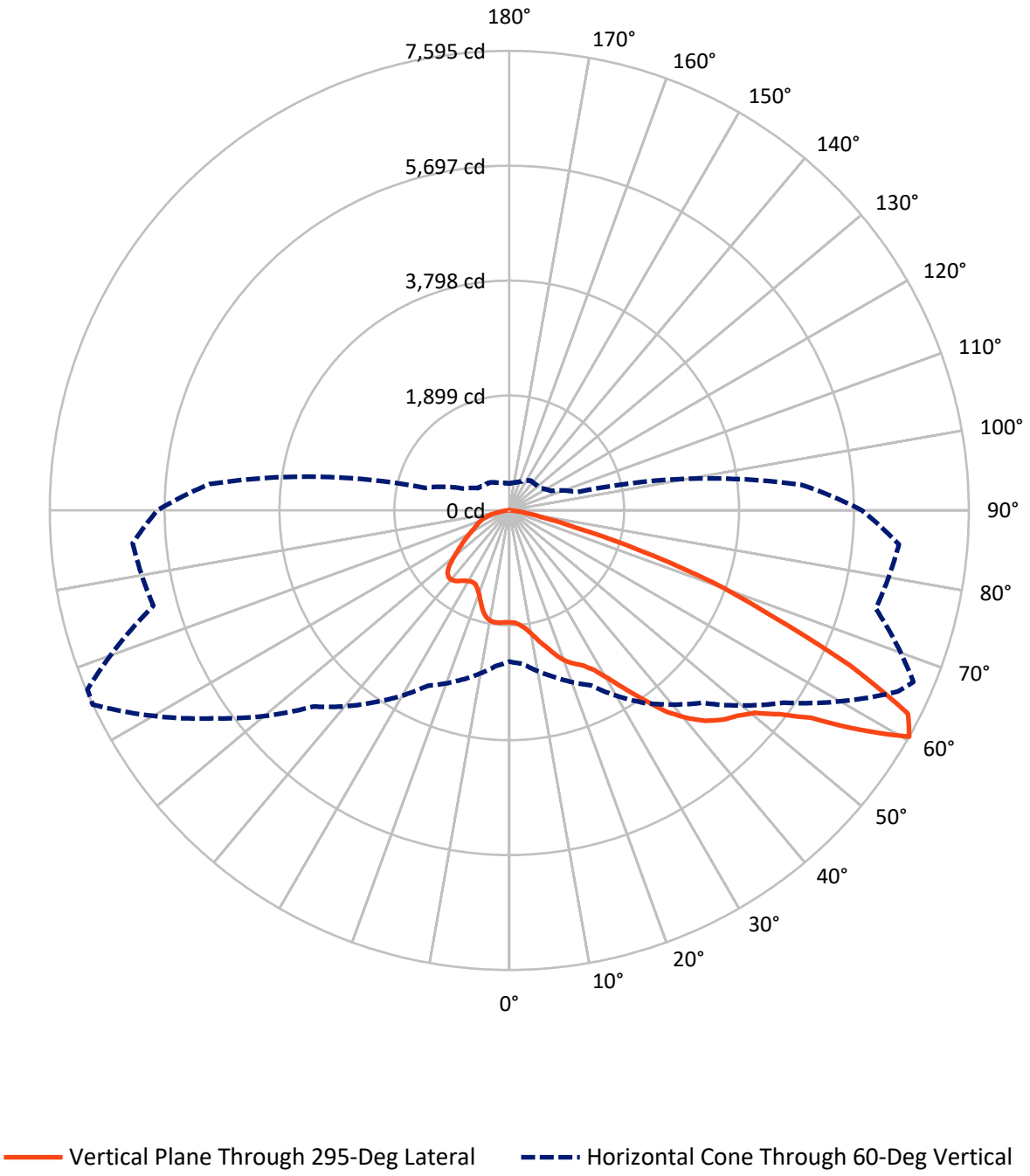

Based on 20 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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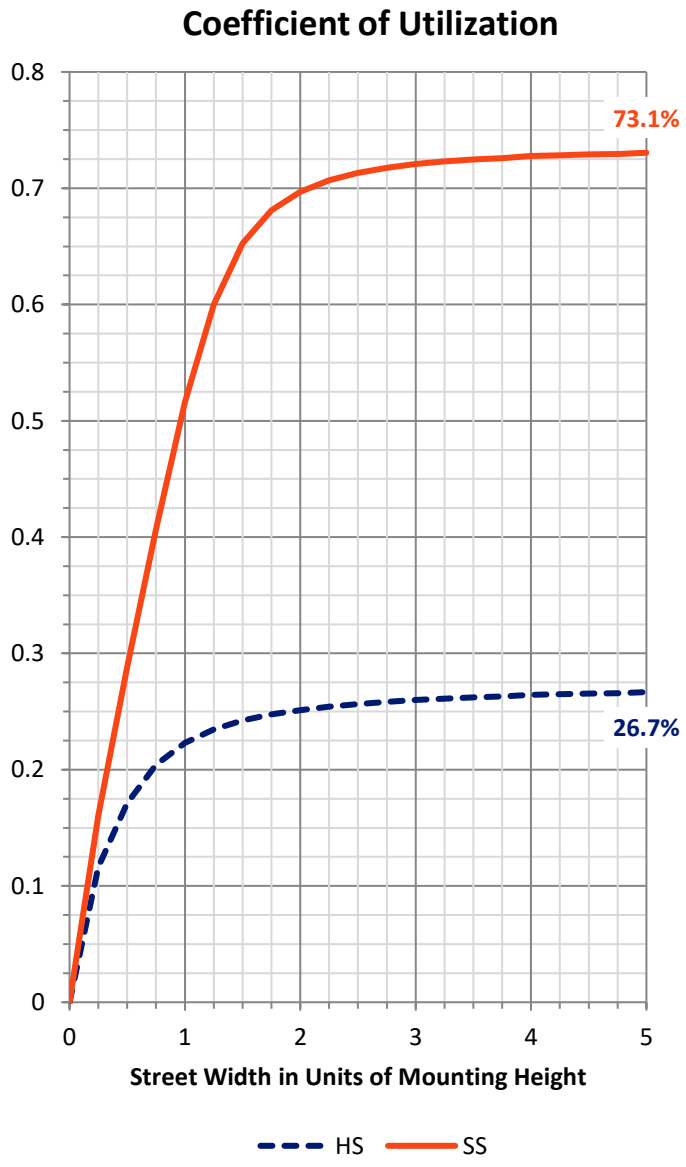
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3095.8 | 0.0 | 3095.8 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 8416.5 | 0.0 | 8416.5 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 11512.3 | 0.0 | 11512.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 174.2 | 1.5 |
| 10°-20° | 500.6 | 4.3 |
| 20°-30° | 948.3 | 8.2 |
| 30°-40° | 1671.8 | 14.5 |
| 40°-50° | 2472.4 | 21.5 |
| 50°-60° | 2903.3 | 25.2 |
| 60°-70° | 2103.6 | 18.3 |
| 70°-80° | 648.7 | 5.6 |
| 80°-90° | 89.3 | 0.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 11512.3 | 100.0 |
| 0°-180° | 11512.3 | 100.0 |



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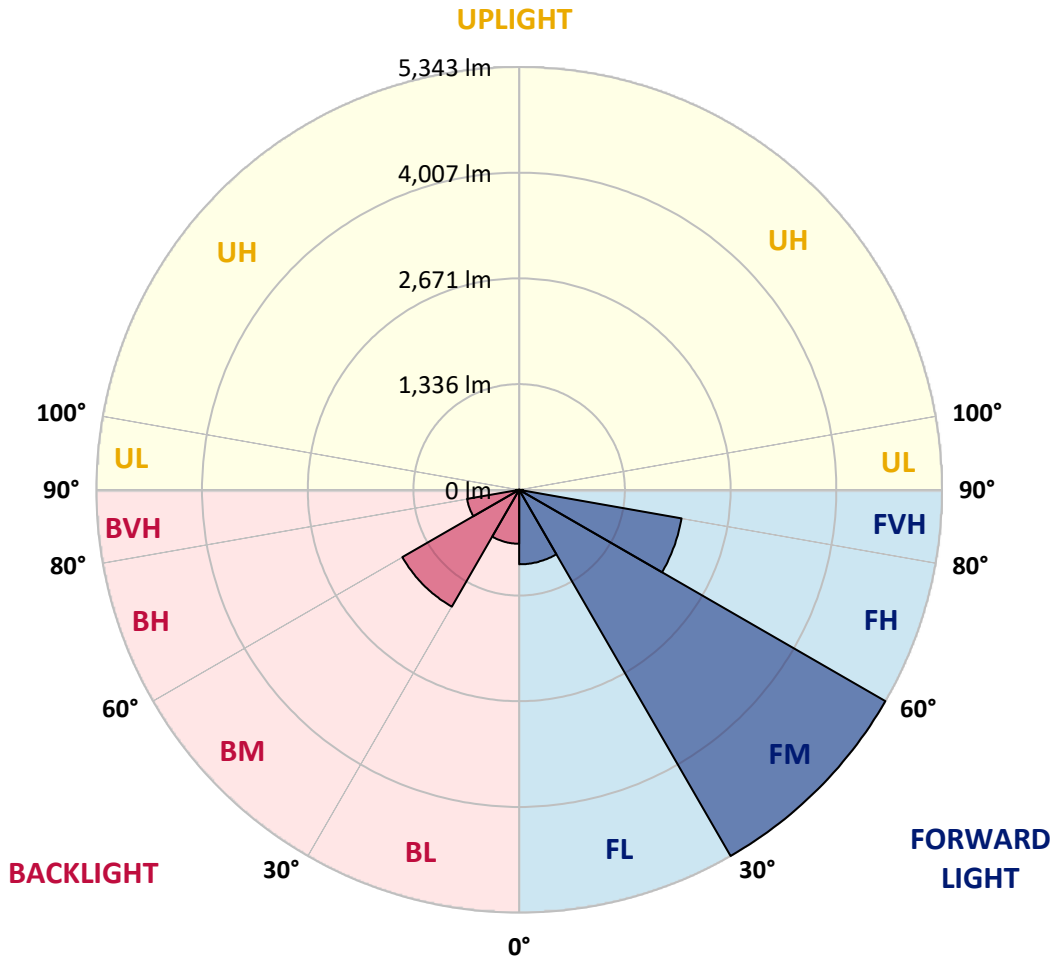
Scaled Data Report

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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 941.3 | 8.2 | | | |
| FM | (30°-60°) | 5342.9 | 46.4 | | | |
| FH | (60°-80°) | 2084.1 | 18.1 | | | G2/5000 |
| FVH | (80°-90°) | 48.2 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 681.8 | 5.9 | B2/1000 | | |
| BM | (30°-60°) | 1704.6 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 668.2 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 41.1 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 |
| 2.5° | 1889.0 | 1894.3 | 1886.4 | 1891.6 | 1891.6 | 1883.8 | 1881.1 | 1870.6 | 1875.9 | 1873.3 | 1870.6 |
| 5° | 1933.6 | 1936.2 | 1931.0 | 1938.9 | 1938.9 | 1941.5 | 1938.9 | 1925.7 | 1925.7 | 1925.7 | 1920.5 |
| 7.5° | 1920.5 | 1920.5 | 1923.1 | 1949.3 | 1975.6 | 2009.7 | 2009.7 | 2004.4 | 2009.7 | 2007.1 | 1983.5 |
| 10° | 1810.3 | 1820.8 | 1844.4 | 1910.0 | 1973.0 | 2046.4 | 2096.3 | 2112.0 | 2112.0 | 2114.6 | 2075.3 |
| 12.5° | 1613.5 | 1621.4 | 1676.5 | 1776.2 | 1907.4 | 2041.2 | 2161.9 | 2240.6 | 2248.4 | 2261.6 | 2209.1 |
| 15° | 1437.7 | 1443.0 | 1482.3 | 1584.7 | 1734.2 | 1970.3 | 2198.6 | 2361.3 | 2387.5 | 2442.6 | 2363.9 |
| 17.5° | 1453.5 | 1450.9 | 1461.4 | 1500.7 | 1608.3 | 1854.9 | 2190.7 | 2502.9 | 2550.2 | 2647.2 | 2579.0 |
| 20° | 1547.9 | 1547.9 | 1555.8 | 1563.7 | 1603.0 | 1770.9 | 2133.0 | 2618.4 | 2710.2 | 2899.1 | 2820.4 |
| 22.5° | 1697.5 | 1697.5 | 1694.9 | 1708.0 | 1708.0 | 1807.7 | 2135.6 | 2704.9 | 2841.4 | 3179.8 | 3103.7 |
| 25° | 1904.7 | 1894.3 | 1894.3 | 1899.5 | 1875.9 | 1946.7 | 2201.2 | 2794.2 | 2972.6 | 3513.0 | 3447.4 |
| 27.5° | 2138.2 | 2146.1 | 2140.9 | 2122.5 | 2091.0 | 2146.1 | 2358.6 | 2933.2 | 3119.5 | 3864.6 | 3838.3 |
| 30° | 2392.7 | 2395.4 | 2400.6 | 2390.1 | 2363.9 | 2403.2 | 2605.3 | 3143.1 | 3313.6 | 4231.9 | 4289.6 |
| 32.5° | 2642.0 | 2678.7 | 2665.6 | 2639.4 | 2649.9 | 2720.7 | 2909.6 | 3426.4 | 3602.2 | 4573.0 | 4777.6 |
| 35° | 2959.4 | 2972.6 | 3025.0 | 2928.0 | 2930.6 | 3051.3 | 3297.9 | 3799.0 | 3969.5 | 4927.2 | 5265.6 |
| 37.5° | 3421.2 | 3444.8 | 3421.2 | 3269.0 | 3245.4 | 3413.3 | 3675.7 | 4166.3 | 4289.6 | 5194.8 | 5719.5 |
| 40° | 3875.1 | 3903.9 | 3943.3 | 3764.9 | 3615.3 | 3754.4 | 4032.5 | 4447.0 | 4575.6 | 5341.7 | 6021.2 |
| 42.5° | 4250.3 | 4297.5 | 4255.5 | 4203.0 | 4066.6 | 4092.8 | 4281.7 | 4664.8 | 4793.3 | 5528.0 | 6325.5 |
| 45° | 4567.7 | 4575.6 | 4594.0 | 4557.2 | 4489.0 | 4465.4 | 4494.3 | 4856.3 | 4998.0 | 5611.9 | 6475.1 |
| 47.5° | 4698.9 | 4733.0 | 4748.7 | 4811.7 | 4882.5 | 4835.3 | 4675.3 | 4945.5 | 5074.1 | 5606.7 | 6522.3 |
| 50° | 4628.1 | 4662.2 | 4746.1 | 4895.7 | 5066.2 | 5150.2 | 4887.8 | 5068.8 | 5213.1 | 5701.1 | 6619.4 |
| 52.5° | 4441.8 | 4478.5 | 4614.9 | 4785.5 | 5071.4 | 5263.0 | 5186.9 | 5325.9 | 5465.0 | 5869.0 | 6782.0 |
| 55° | 3990.5 | 4045.6 | 4237.1 | 4520.5 | 4914.0 | 5202.6 | 5501.7 | 5703.7 | 5855.9 | 6071.0 | 6950.0 |
| 57.5° | 3334.6 | 3392.3 | 3607.5 | 4032.5 | 4622.8 | 4953.4 | 5593.5 | 6412.1 | 6480.3 | 6312.4 | 6965.7 |
| 60° | *2497.7* | *2544.9* | *2849.2* | *3190.3* | *3883.0* | *4496.9* | *5541.1* | *7083.8* | *7256.9* | *6270.4* | *6464.6* |
| 62.5° | 1978.2 | 2035.9 | 2306.2 | 2463.6 | 2959.4 | 3715.0 | 5357.4 | 7270.0 | 7419.6 | 5924.1 | 5766.7 |
| 65° | 1545.3 | 1584.7 | 1836.5 | 2062.2 | 2182.8 | 2537.0 | 4591.3 | 6359.6 | 6493.4 | 5360.0 | 4759.2 |
| 67.5° | 1020.6 | 1080.9 | 1380.0 | 1689.6 | 1752.6 | 1613.5 | 3158.8 | 4893.0 | 4956.0 | 4260.8 | 3578.6 |
| 70° | 732.0 | 760.8 | 983.9 | 1314.4 | 1408.9 | 1080.9 | 1721.1 | 3704.5 | 3722.9 | 2859.7 | 2411.1 |
| 72.5° | 498.5 | 503.7 | 669.0 | 1007.5 | 1122.9 | 784.5 | 947.1 | 2440.0 | 2377.0 | 1411.5 | 1380.0 |
| 75° | 338.4 | 343.7 | 427.6 | 671.6 | 795.0 | 545.7 | 616.5 | 1330.2 | 1277.7 | 779.2 | 836.9 |
| 77.5° | 228.3 | 233.5 | 293.8 | 451.3 | 530.0 | 377.8 | 451.3 | 703.1 | 690.0 | 516.9 | 448.6 |
| 80° | 173.2 | 181.0 | 217.8 | 288.6 | 369.9 | 220.4 | 257.1 | 333.2 | 338.4 | 275.5 | 228.3 |
| 82.5° | 97.1 | 107.6 | 131.2 | 146.9 | 238.7 | 123.3 | 123.3 | 199.4 | 191.5 | 170.5 | 123.3 |
| 85° | 42.0 | 44.6 | 52.5 | 55.1 | 97.1 | 52.5 | 44.6 | 86.6 | 89.2 | 84.0 | 39.4 |
| 87.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 10.5 | 10.5 | 10.5 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 |
| 2.5° | 1857.5 | 1873.3 | 1857.5 | 1849.6 | 1849.6 | 1836.5 | 1831.3 | 1831.3 | 1812.9 | 1820.8 | 1815.5 |
| 5° | 1899.5 | 1904.7 | 1886.4 | 1862.8 | 1831.3 | 1805.0 | 1768.3 | 1721.1 | 1692.2 | 1689.6 | 1692.2 |
| 7.5° | 1965.1 | 1967.7 | 1917.9 | 1865.4 | 1786.7 | 1692.2 | 1579.4 | 1487.6 | 1406.3 | 1393.1 | 1408.9 |
| 10° | 2056.9 | 2051.7 | 1978.2 | 1854.9 | 1689.6 | 1490.2 | 1317.1 | 1233.1 | 1185.9 | 1183.3 | 1180.6 |
| 12.5° | 2180.2 | 2146.1 | 2033.3 | 1810.3 | 1521.7 | 1290.8 | 1201.6 | 1196.4 | 1209.5 | 1220.0 | 1222.6 |
| 15° | 2321.9 | 2277.3 | 2077.9 | 1723.7 | 1351.2 | 1217.4 | 1222.6 | 1267.2 | 1282.9 | 1293.4 | 1293.4 |
| 17.5° | 2497.7 | 2440.0 | 2127.8 | 1600.4 | 1264.6 | 1233.1 | 1269.8 | 1311.8 | 1338.0 | 1348.5 | 1345.9 |
| 20° | 2731.2 | 2610.5 | 2167.1 | 1482.3 | 1241.0 | 1259.3 | 1290.8 | 1332.8 | 1359.0 | 1372.2 | 1372.2 |
| 22.5° | 2964.7 | 2815.1 | 2175.0 | 1401.0 | 1241.0 | 1262.0 | 1290.8 | 1332.8 | 1361.7 | 1374.8 | 1372.2 |
| 25° | 3282.1 | 3077.5 | 2177.6 | 1343.3 | 1243.6 | 1248.8 | 1275.1 | 1311.8 | 1353.8 | 1366.9 | 1372.2 |
| 27.5° | 3620.6 | 3366.1 | 2190.7 | 1330.2 | 1233.1 | 1230.5 | 1248.8 | 1282.9 | 1324.9 | 1359.0 | 1361.7 |
| 30° | 4040.4 | 3691.4 | 2196.0 | 1343.3 | 1235.7 | 1201.6 | 1214.7 | 1248.8 | 1293.4 | 1327.5 | 1338.0 |
| 32.5° | 4452.3 | 3993.1 | 2185.5 | 1372.2 | 1241.0 | 1183.3 | 1185.9 | 1206.9 | 1254.1 | 1277.7 | 1296.1 |
| 35° | 4887.8 | 4313.2 | 2167.1 | 1411.5 | 1243.6 | 1175.4 | 1151.8 | 1162.3 | 1193.7 | 1196.4 | 1204.2 |
| 37.5° | 5228.9 | 4552.0 | 2112.0 | 1464.0 | 1248.8 | 1146.5 | 1099.3 | 1091.4 | 1078.3 | 1052.1 | 1057.3 |
| 40° | 5509.6 | 4712.0 | 2020.2 | 1490.2 | 1235.7 | 1112.4 | 1033.7 | 997.0 | 947.1 | 907.8 | 915.6 |
| 42.5° | 5711.6 | 4819.6 | 1910.0 | 1495.5 | 1214.7 | 1054.7 | 957.6 | 894.7 | 839.6 | 797.6 | 800.2 |
| 45° | 5800.8 | 4809.1 | 1791.9 | 1456.1 | 1164.9 | 983.9 | 886.8 | 826.4 | 766.1 | 721.5 | 716.2 |
| 47.5° | 5803.4 | 4706.8 | 1629.3 | 1361.7 | 1080.9 | 902.5 | 821.2 | 755.6 | 705.8 | 674.3 | 671.6 |
| 50° | 5824.4 | 4649.0 | 1477.1 | 1225.2 | 970.7 | 815.9 | 763.5 | 697.9 | 669.0 | 624.4 | 611.3 |
| 52.5° | 5955.6 | 4743.5 | 1372.2 | 1075.7 | 868.4 | 753.0 | 713.6 | 655.9 | 608.7 | 579.8 | 577.2 |
| 55° | 6168.1 | 4906.2 | 1314.4 | 962.9 | 771.3 | 692.6 | 666.4 | 616.5 | 574.6 | 545.7 | 537.8 |
| 57.5° | 6194.4 | 4990.1 | 1246.2 | 857.9 | 692.6 | 645.4 | 634.9 | 579.8 | 519.5 | 498.5 | 490.6 |
| 60° | *5827.1* | *4848.4* | *1162.3* | *760.8* | *634.9* | *608.7* | *603.4* | *530.0* | *480.1* | *453.9* | *443.4* |
| 62.5° | 5325.9 | 4494.3 | 1033.7 | 671.6 | 590.3 | 571.9 | 551.0 | 493.2 | 430.3 | 401.4 | 393.5 |
| 65° | 4352.6 | 3778.0 | 878.9 | 611.3 | 545.7 | 524.7 | 519.5 | 440.8 | 398.8 | 383.0 | 380.4 |
| 67.5° | 3297.9 | 3035.5 | 774.0 | 566.7 | 498.5 | 490.6 | 472.3 | 446.0 | 427.6 | 409.3 | 404.0 |
| 70° | 2332.4 | 2190.7 | 658.5 | 509.0 | 451.3 | 438.1 | 514.2 | 485.4 | 419.8 | 396.2 | 393.5 |
| 72.5° | 1414.1 | 1374.8 | 569.3 | 456.5 | 388.3 | 409.3 | 474.9 | 438.1 | 377.8 | 348.9 | 338.4 |
| 75° | 892.0 | 815.9 | 477.5 | 388.3 | 309.6 | 333.2 | 414.5 | 390.9 | 325.3 | 296.5 | 288.6 |
| 77.5° | 485.4 | 451.3 | 359.4 | 317.5 | 244.0 | 270.2 | 362.1 | 322.7 | 259.7 | 283.4 | 251.9 |
| 80° | 212.5 | 236.1 | 238.7 | 183.7 | 162.7 | 199.4 | 259.7 | 251.9 | 199.4 | 202.0 | 167.9 |
| 82.5° | 102.3 | 133.8 | 154.8 | 125.9 | 91.8 | 118.1 | 173.2 | 144.3 | 133.8 | 125.9 | 120.7 |
| 85° | 31.5 | 49.8 | 68.2 | 60.3 | 42.0 | 49.8 | 81.3 | 78.7 | 94.5 | 81.3 | 76.1 |
| 87.5° | 10.5 | 10.5 | 7.9 | 7.9 | 7.9 | 10.5 | 13.1 | 7.9 | 2.6 | 2.6 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 |
| 2.5° | 1812.9 | 1815.5 | 1815.5 | 1818.2 | 1818.2 | 1826.0 | 1836.5 | 1847.0 | 1839.2 | 1849.6 | 1852.3 |
| 5° | 1687.0 | 1700.1 | 1710.6 | 1750.0 | 1781.4 | 1807.7 | 1836.5 | 1862.8 | 1870.6 | 1875.9 | 1889.0 |
| 7.5° | 1390.5 | 1427.2 | 1495.5 | 1584.7 | 1684.4 | 1781.4 | 1847.0 | 1915.2 | 1925.7 | 1938.9 | 1957.2 |
| 10° | 1183.3 | 1199.0 | 1246.2 | 1338.0 | 1516.4 | 1708.0 | 1868.0 | 1975.6 | 2020.2 | 2046.4 | 2064.8 |
| 12.5° | 1217.4 | 1206.9 | 1199.0 | 1212.1 | 1327.5 | 1574.2 | 1854.9 | 2062.2 | 2146.1 | 2175.0 | 2198.6 |
| 15° | 1298.7 | 1288.2 | 1259.3 | 1222.6 | 1235.7 | 1432.5 | 1810.3 | 2143.5 | 2277.3 | 2324.5 | 2374.4 |
| 17.5° | 1345.9 | 1335.4 | 1311.8 | 1272.5 | 1238.3 | 1314.4 | 1726.3 | 2217.0 | 2484.6 | 2542.3 | 2613.1 |
| 20° | 1372.2 | 1361.7 | 1338.0 | 1298.7 | 1259.3 | 1269.8 | 1618.8 | 2308.8 | 2720.7 | 2812.5 | 2917.5 |
| 22.5° | 1377.4 | 1364.3 | 1338.0 | 1298.7 | 1275.1 | 1267.2 | 1516.4 | 2363.9 | 2975.2 | 3116.9 | 3237.5 |
| 25° | 1374.8 | 1351.2 | 1317.1 | 1288.2 | 1275.1 | 1272.5 | 1445.6 | 2395.4 | 3250.7 | 3476.3 | 3612.7 |
| 27.5° | 1356.4 | 1327.5 | 1293.4 | 1272.5 | 1267.2 | 1282.9 | 1414.1 | 2432.1 | 3573.4 | 3862.0 | 4079.7 |
| 30° | 1335.4 | 1293.4 | 1251.5 | 1243.6 | 1256.7 | 1306.6 | 1440.4 | 2445.2 | 3911.8 | 4281.7 | 4504.7 |
| 32.5° | 1280.3 | 1248.8 | 1206.9 | 1204.2 | 1235.7 | 1324.9 | 1500.7 | 2426.8 | 4210.9 | 4701.5 | 4982.2 |
| 35° | 1201.6 | 1183.3 | 1159.6 | 1167.5 | 1217.4 | 1340.7 | 1542.7 | 2369.1 | 4483.8 | 5092.4 | 5420.4 |
| 37.5° | 1062.6 | 1075.7 | 1088.8 | 1107.2 | 1170.1 | 1338.0 | 1561.1 | 2277.3 | 4709.4 | 5404.6 | 5824.4 |
| 40° | 907.8 | 952.4 | 994.4 | 1041.6 | 1125.5 | 1317.1 | 1566.3 | 2164.5 | 4840.6 | 5640.8 | 6183.9 |
| 42.5° | 810.7 | 852.7 | 905.1 | 973.4 | 1065.2 | 1269.8 | 1561.1 | 2038.5 | 4882.5 | 5803.4 | 6412.1 |
| 45° | 721.5 | 771.3 | 836.9 | 907.8 | 1012.7 | 1201.6 | 1513.8 | 1902.1 | 4903.5 | 5879.5 | 6509.2 |
| 47.5° | 674.3 | 703.1 | 763.5 | 834.3 | 944.5 | 1117.7 | 1422.0 | 1802.4 | 4872.1 | 5895.3 | 6627.3 |
| 50° | 619.2 | 658.5 | 697.9 | 766.1 | 873.7 | 1012.7 | 1311.8 | 1744.7 | 4924.5 | 6050.1 | 6813.5 |
| 52.5° | 577.2 | 598.2 | 640.2 | 703.1 | 781.8 | 915.6 | 1206.9 | 1697.5 | 5068.8 | 6207.5 | 7007.7 |
| 55° | 545.7 | 569.3 | 595.6 | 648.0 | 708.4 | 818.6 | 1099.3 | 1626.6 | 5236.7 | 6375.4 | 7201.8 |
| 57.5° | 495.9 | 511.6 | 548.3 | 603.4 | 642.8 | 724.1 | 973.4 | 1542.7 | 5223.6 | 6244.2 | 6866.0 |
| 60° | *451.3* | *467.0* | *506.4* | *561.5* | *585.1* | *640.2* | *850.1* | *1435.1* | *4971.8* | *5816.6* | *6246.8* |
| 62.5° | 401.4 | 419.8 | 467.0 | 506.4 | 527.3 | 569.3 | 721.5 | 1238.3 | 4447.0 | 5173.8 | 5522.7 |
| 65° | 380.4 | 390.9 | 422.4 | 469.6 | 467.0 | 506.4 | 608.7 | 973.4 | 3578.6 | 3953.8 | 4271.2 |
| 67.5° | 404.0 | 419.8 | 414.5 | 427.6 | 419.8 | 440.8 | 545.7 | 781.8 | 2812.5 | 2977.8 | 3161.5 |
| 70° | 398.8 | 435.5 | 453.9 | 427.6 | 367.3 | 390.9 | 472.3 | 624.4 | 2012.3 | 1996.6 | 1988.7 |
| 72.5° | 348.9 | 385.7 | 438.1 | 464.4 | 359.4 | 325.3 | 409.3 | 540.5 | 1290.8 | 1285.6 | 1162.3 |
| 75° | 296.5 | 322.7 | 385.7 | 419.8 | 309.6 | 262.4 | 351.6 | 459.1 | 771.3 | 781.8 | 697.9 |
| 77.5° | 272.9 | 259.7 | 322.7 | 369.9 | 251.9 | 202.0 | 283.4 | 346.3 | 425.0 | 430.3 | 398.8 |
| 80° | 196.8 | 188.9 | 241.4 | 270.2 | 191.5 | 144.3 | 160.0 | 215.1 | 228.3 | 204.6 | 212.5 |
| 82.5° | 125.9 | 128.6 | 144.3 | 173.2 | 118.1 | 78.7 | 110.2 | 144.3 | 123.3 | 99.7 | 118.1 |
| 85° | 81.3 | 91.8 | 76.1 | 89.2 | 36.7 | 36.7 | 47.2 | 63.0 | 42.0 | 28.9 | 31.5 |
| 87.5° | 0.0 | 0.0 | 5.2 | 10.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1501620
CATALOG NUMBER: GSS-SB2D-927-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1852.3 | 1852.3 | *1852.3* | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 | 1852.3 |
| 2.5° | 1860.1 | 1857.5 | *1857.5* | 1862.8 | 1875.9 | 1881.1 | 1889.0 | 1886.4 | 1894.3 | 1889.0 |
| 5° | 1896.9 | 1899.5 | *1907.4* | 1910.0 | 1917.9 | 1928.4 | 1931.0 | 1928.4 | 1933.6 | 1933.6 |
| 7.5° | 1970.3 | 1980.8 | *1975.6* | 1988.7 | 1978.2 | 1965.1 | 1944.1 | 1928.4 | 1915.2 | 1920.5 |
| 10° | 2093.6 | 2088.4 | *2085.8* | 2062.2 | 2014.9 | 1946.7 | 1891.6 | 1831.3 | 1820.8 | 1810.3 |
| 12.5° | 2230.1 | 2224.8 | *2224.8* | 2143.5 | 2009.7 | 1868.0 | 1742.1 | 1647.6 | 1616.1 | 1613.5 |
| 15° | 2421.6 | 2387.5 | *2356.0* | 2185.5 | 1917.9 | 1676.5 | 1529.6 | 1456.1 | 1437.7 | 1437.7 |
| 17.5° | 2660.3 | 2571.1 | *2518.7* | 2154.0 | 1768.3 | 1550.6 | 1464.0 | 1445.6 | 1440.4 | 1453.5 |
| 20° | 2956.8 | 2731.2 | *2655.1* | 2083.2 | 1713.2 | 1566.3 | 1524.3 | 1526.9 | 1529.6 | 1547.9 |
| 22.5° | 3282.1 | 2878.1 | *2752.2* | 2083.2 | 1768.3 | 1666.0 | 1645.0 | 1673.9 | 1681.7 | 1697.5 |
| 25° | 3644.2 | 3009.3 | *2838.8* | 2193.3 | 1931.0 | 1854.9 | 1828.7 | 1857.5 | 1878.5 | 1904.7 |
| 27.5° | 4050.9 | 3145.7 | *2988.3* | 2392.7 | 2140.9 | 2093.6 | 2064.8 | 2077.9 | 2106.8 | 2138.2 |
| 30° | 4415.5 | 3374.0 | *3216.6* | 2697.1 | 2426.8 | 2369.1 | 2319.3 | 2340.3 | 2371.7 | 2392.7 |
| 32.5° | 4738.2 | 3652.1 | *3518.3* | 3017.2 | 2754.8 | 2655.1 | 2600.0 | 2594.8 | 2657.7 | 2642.0 |
| 35° | 5034.7 | 3980.0 | *3851.5* | 3381.8 | 3088.0 | 2964.7 | 2891.2 | 2985.7 | 2943.7 | 2959.4 |
| 37.5° | 5268.2 | 4321.1 | *4218.8* | 3730.8 | 3434.3 | 3266.4 | 3221.8 | 3337.2 | 3402.8 | 3421.2 |
| 40° | 5459.7 | 4617.6 | *4510.0* | 4077.1 | 3751.8 | 3628.5 | 3699.3 | 3890.8 | 3883.0 | 3875.1 |
| 42.5° | 5606.7 | 4872.1 | *4754.0* | 4339.5 | 4056.1 | 4079.7 | 4134.8 | 4263.4 | 4294.9 | 4250.3 |
| 45° | 5672.3 | 5032.1 | *4937.6* | 4546.7 | 4402.4 | 4538.9 | 4562.5 | 4617.6 | 4596.6 | 4567.7 |
| 47.5° | 5748.3 | 5173.8 | *5074.1* | 4735.6 | 4777.6 | 4911.4 | 4864.2 | 4819.6 | 4743.5 | 4698.9 |
| 50° | 5876.9 | 5341.7 | *5257.7* | 5011.1 | 5163.3 | 5118.7 | 4935.0 | 4835.3 | 4680.5 | 4628.1 |
| 52.5° | 6120.9 | 5659.1 | *5596.2* | 5446.6 | 5344.3 | 5087.2 | 4864.2 | 4685.8 | 4512.6 | 4441.8 |
| 55° | 6338.7 | 6089.4 | *6052.7* | 5853.3 | 5289.2 | 4921.9 | 4622.8 | 4347.3 | 4050.9 | 3990.5 |
| 57.5° | 6464.6 | 6803.0 | *6845.0* | 6026.4 | 5037.3 | 4546.7 | 4106.0 | 3665.2 | 3384.5 | 3334.6 |
| 60° | *6089.4* | *7574.4* | *7595.4* | *5992.3* | *4583.5* | *3869.8* | *3198.2* | *2886.0* | *2584.3* | *2497.7* |
| 62.5° | 5572.6 | 7414.3 | *7396.0* | 5787.7 | 3649.4 | 2823.0 | 2429.5 | 2282.5 | 2049.0 | 1978.2 |
| 65° | 4790.7 | 6176.0 | *6197.0* | 5000.6 | 2426.8 | 2041.2 | 2041.2 | 1854.9 | 1595.2 | 1545.3 |
| 67.5° | 3903.9 | 4761.9 | *4714.6* | 3242.8 | 1490.2 | 1634.5 | 1713.2 | 1445.6 | 1080.9 | 1020.6 |
| 70° | 2537.0 | 3636.3 | *3570.7* | 1870.6 | 936.6 | 1361.7 | 1348.5 | 1086.2 | 774.0 | 732.0 |
| 72.5° | 1091.4 | 2101.5 | *2235.3* | 955.0 | 705.8 | 1096.7 | 1075.7 | 760.8 | 516.9 | 498.5 |
| 75° | 658.5 | 1057.3 | *1151.8* | 608.7 | 514.2 | 826.4 | 745.1 | 482.7 | 351.6 | 338.4 |
| 77.5° | 417.2 | 579.8 | *574.6* | 456.5 | 385.7 | 558.8 | 501.1 | 333.2 | 238.7 | 228.3 |
| 80° | 241.4 | 286.0 | *296.5* | 286.0 | 259.7 | 398.8 | 320.1 | 241.4 | 186.3 | 173.2 |
| 82.5° | 154.8 | 178.4 | *181.0* | 139.1 | 144.3 | 257.1 | 173.2 | 141.7 | 107.6 | 97.1 |
| 85° | 68.2 | 76.1 | *73.5* | 47.2 | 47.2 | 104.9 | 60.3 | 57.7 | 42.0 | 42.0 |
| 87.5° | 2.6 | 5.2 | *2.6* | 2.6 | 2.6 | 10.5 | 5.2 | 7.9 | 7.9 | 7.9 |
| 90° | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

# LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-1

Luminaire Tested: GFLD-SA1-A-927-U-WR-X-BK

Test Date: 06/16/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

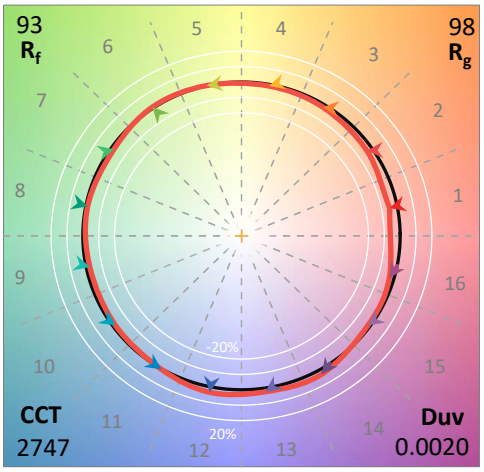
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/16/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-927-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2747 | CRI (Ra): | 92.5 | | |
| CIE u': | 0.2598 | R1: | 92.3 | R9: | 58.3 |
| CIE v': | 0.5293 | R2: | 95.5 | R10: | 88.5 |
| Duv: | 0.0020 | R3: | 97.5 | R11: | 93.7 |
| CIE x: | 0.4594 | R4: | 93.1 | R12: | 84.9 |
| CIE y: | 0.4160 | R5: | 91.8 | R13: | 93.0 |
| CIE z: | 0.1246 | R6: | 95.1 | R14: | 97.8 |
| Peak Wavelength (nm): | 624 | R7: | 92.9 | | |
| Dominant Wavelength (nm): | 583 | R8: | 81.7 | | |
| Purity: | 63 | | | | |

| | |
|---|---|
| Rf: | 93.1 |
| Rg: | 98.2 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 198M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.3/43% |
| Sphere Temperature (°C): | 24.2 |

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

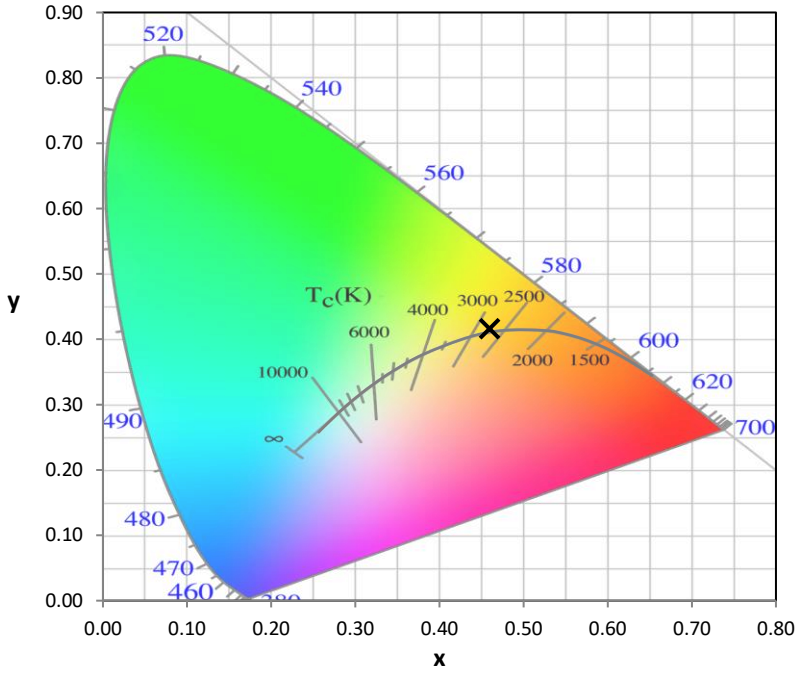
REPORT NUMBER: SP1-2106-271-1

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | XITRON 2801 IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61603 IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | AGILENT E3634A IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | ONSET IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | ONSET IN0046 | 12/1/2020 | 12/1/2021 |

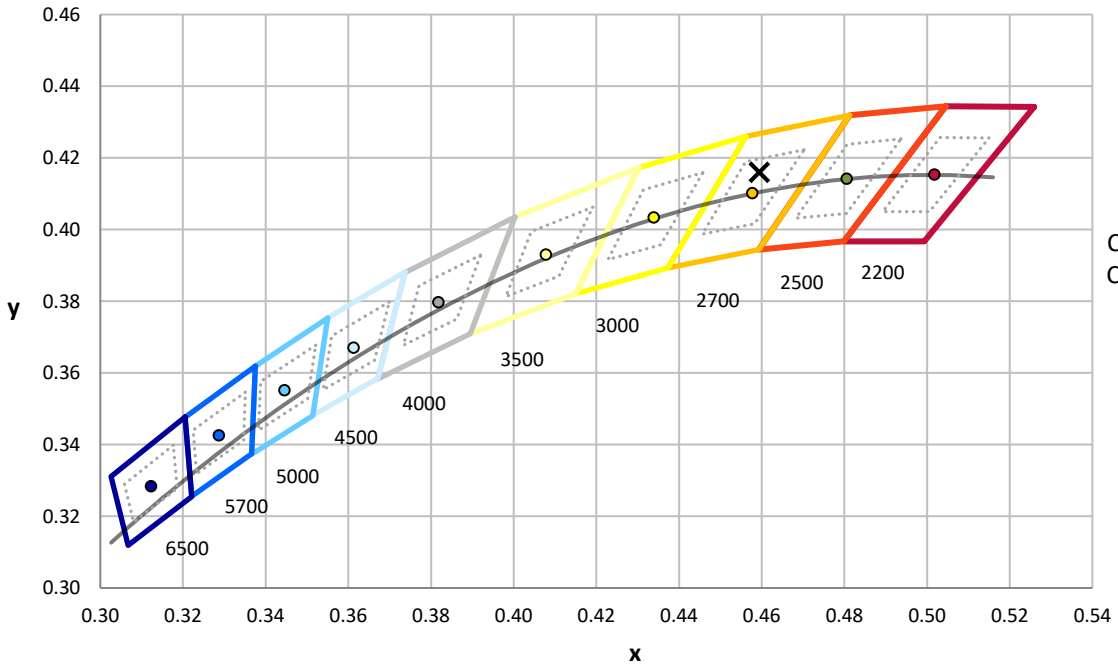
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-1

## CIE 1931 Chromaticity Diagram




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



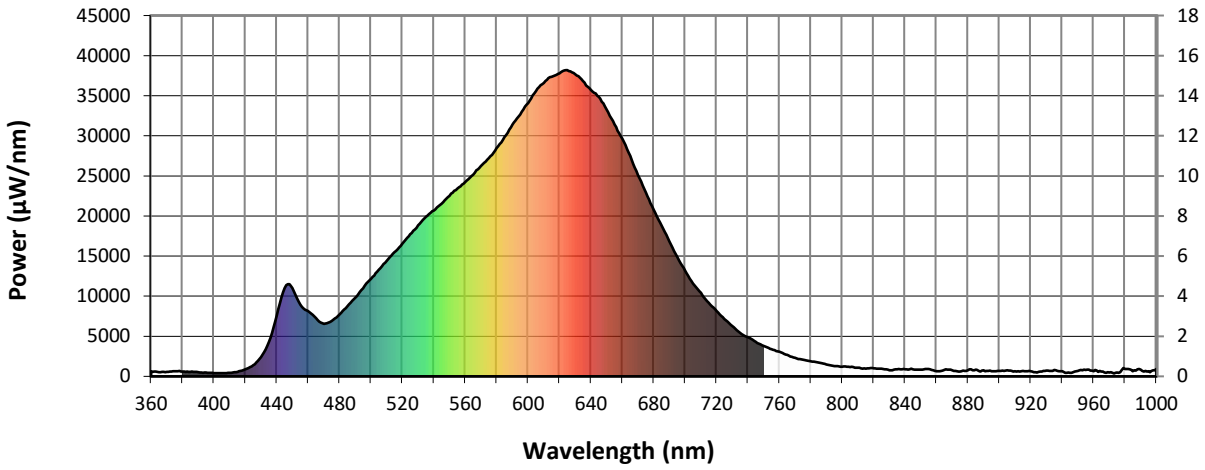

CCT = 2747K
CIE x = 0.4594
CIE y = 0.4160
Duv = 0.0020

Point lies inside the ANSI 2700K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-1

## Photopic Flux vs. Wavelength



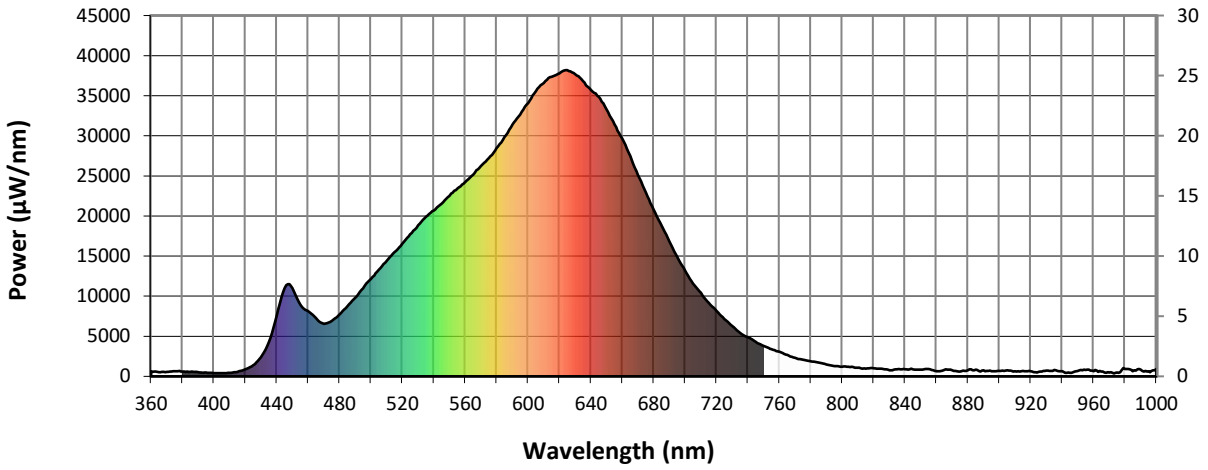

######

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-1

## Scotopic Flux vs. Wavelength



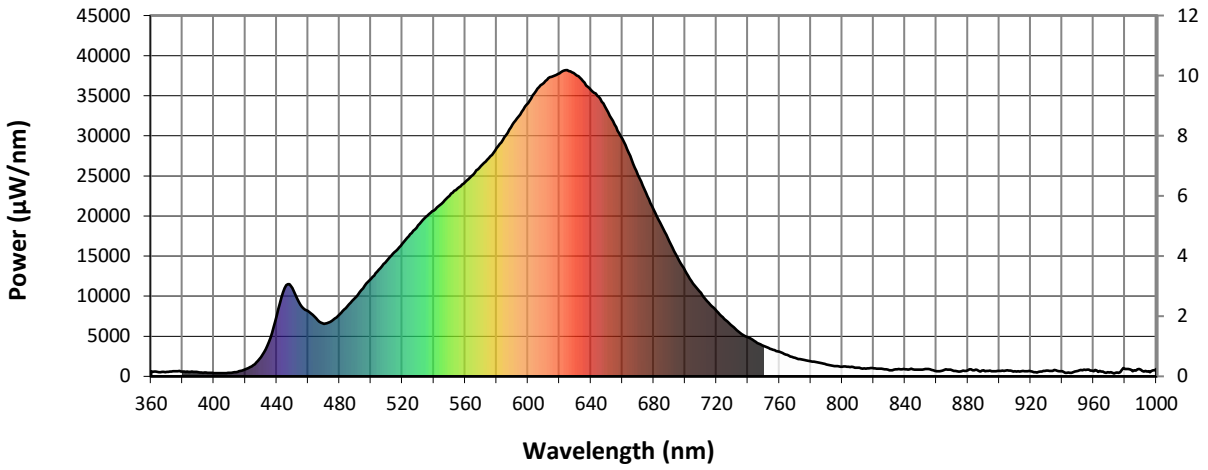

**Scotopic Lumens: 2290.1** **S/P: 1.28**

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 849.3** **S/P: 0.48**

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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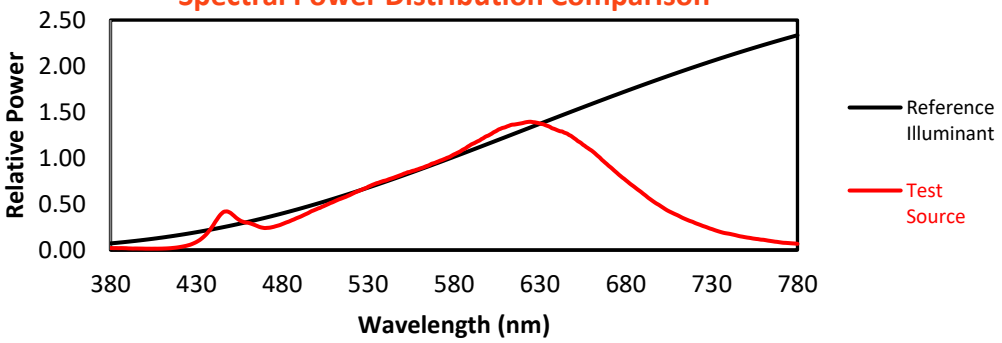
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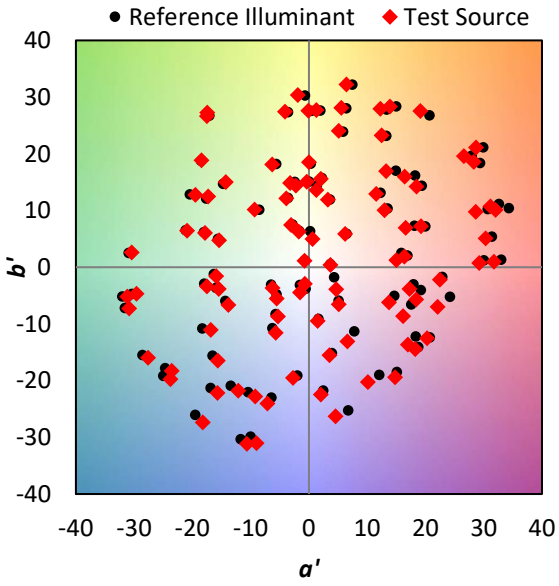
## Summary

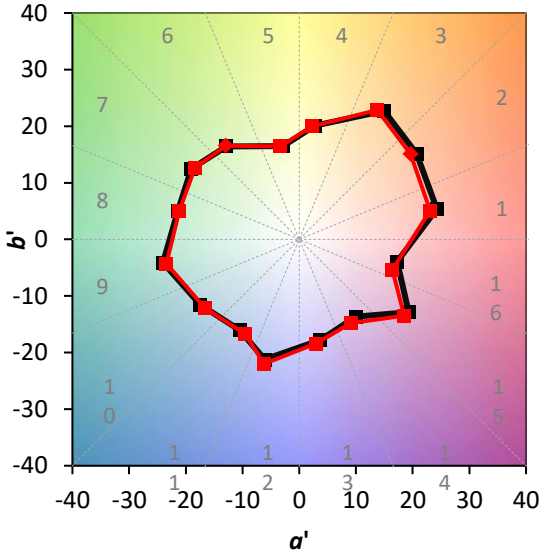
$R_f$ = 93.1
$R_g$ = 98.2
CIE $R_a$ = 92.5
$R_9$ = 58.3

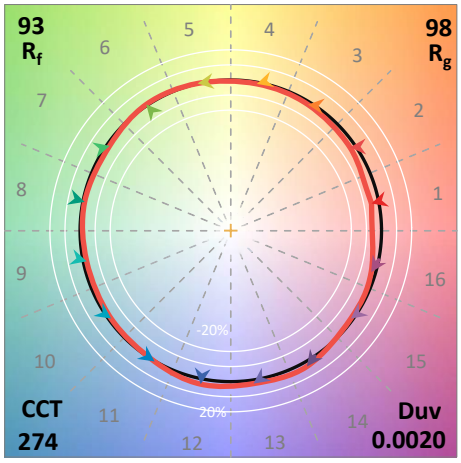
## Spectral Power Distribution Comparison

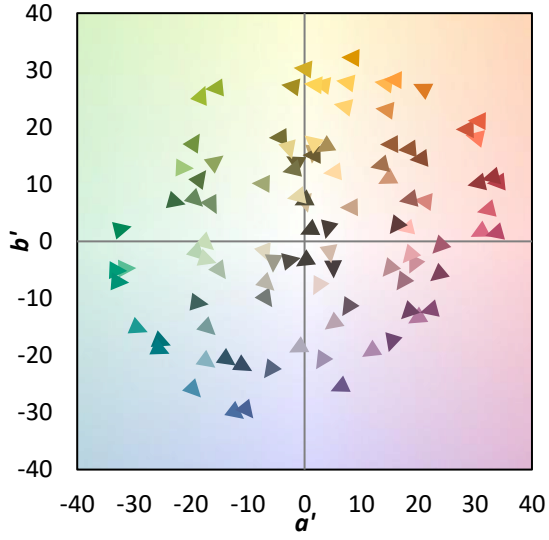



## Color Vector Graphics



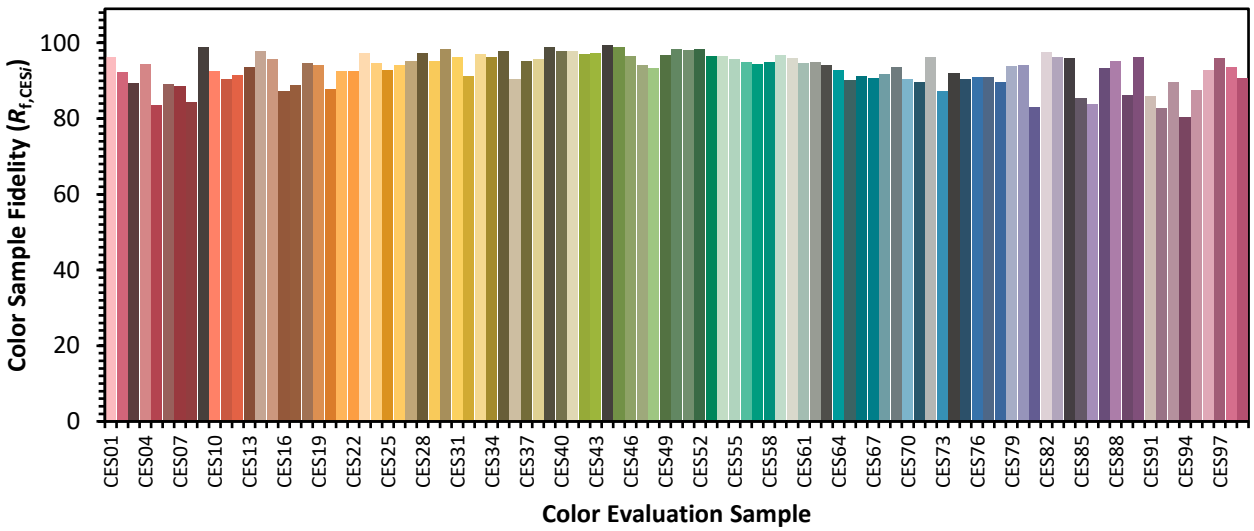
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 91 |
| CES02 = 64 | CES27 = 95 | CES52 = 98 | CES77 = 91 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 90 |
| CES04 = 70 | CES29 = 95 | CES54 = 96 | CES79 = 94 |
| CES05 = 51 | CES30 = 98 | CES55 = 96 | CES80 = 94 |
| CES06 = 52 | CES31 = 96 | CES56 = 95 | CES81 = 83 |
| CES07 = 44 | CES32 = 91 | CES57 = 94 | CES82 = 97 |
| CES08 = 43 | CES33 = 97 | CES58 = 95 | CES83 = 96 |
| CES09 = 29 | CES34 = 96 | CES59 = 97 | CES84 = 96 |
| CES10 = 76 | CES35 = 98 | CES60 = 96 | CES85 = 85 |
| CES11 = 59 | CES36 = 91 | CES61 = 95 | CES86 = 84 |
| CES12 = 66 | CES37 = 95 | CES62 = 95 | CES87 = 93 |
| CES13 = 44 | CES38 = 96 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 99 | CES64 = 93 | CES89 = 86 |
| CES15 = 72 | CES40 = 98 | CES65 = 90 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 91 | CES91 = 86 |
| CES17 = 50 | CES42 = 97 | CES67 = 91 | CES92 = 83 |
| CES18 = 57 | CES43 = 97 | CES68 = 92 | CES93 = 90 |
| CES19 = 72 | CES44 = 99 | CES69 = 94 | CES94 = 80 |
| CES20 = 68 | CES45 = 99 | CES70 = 90 | CES95 = 87 |
| CES21 = 87 | CES46 = 96 | CES71 = 90 | CES96 = 93 |
| CES22 = 79 | CES47 = 94 | CES72 = 96 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 87 | CES98 = 94 |
| CES24 = 91 | CES49 = 97 | CES74 = 92 | CES99 = 91 |
| CES25 = 72 | CES50 = 98 | CES75 = 90 | |

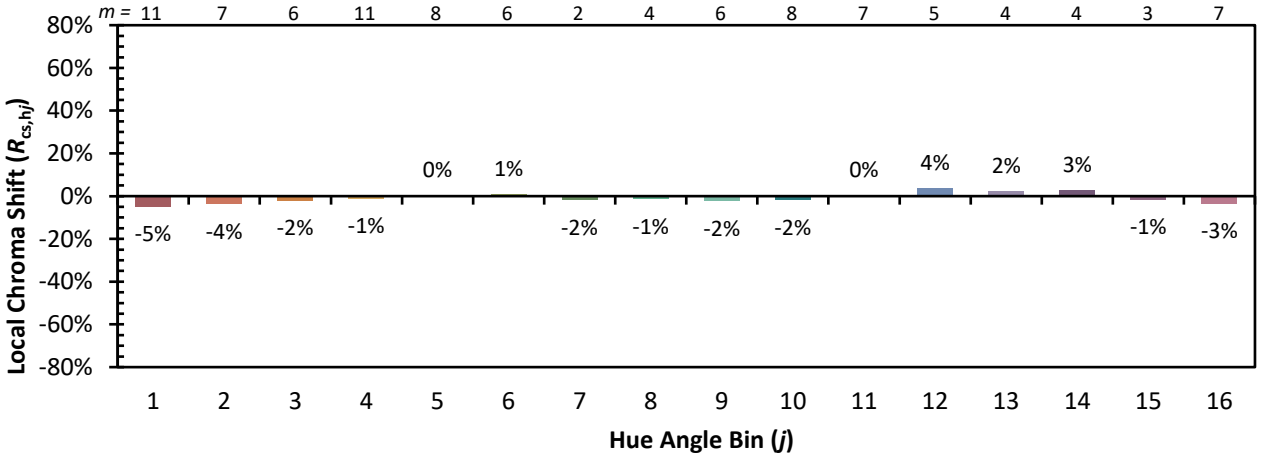


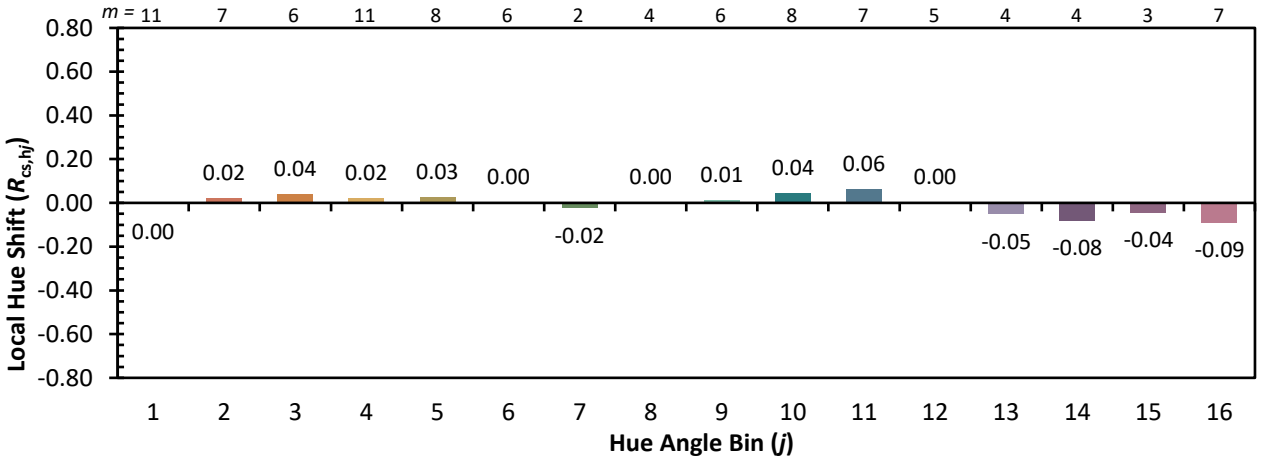
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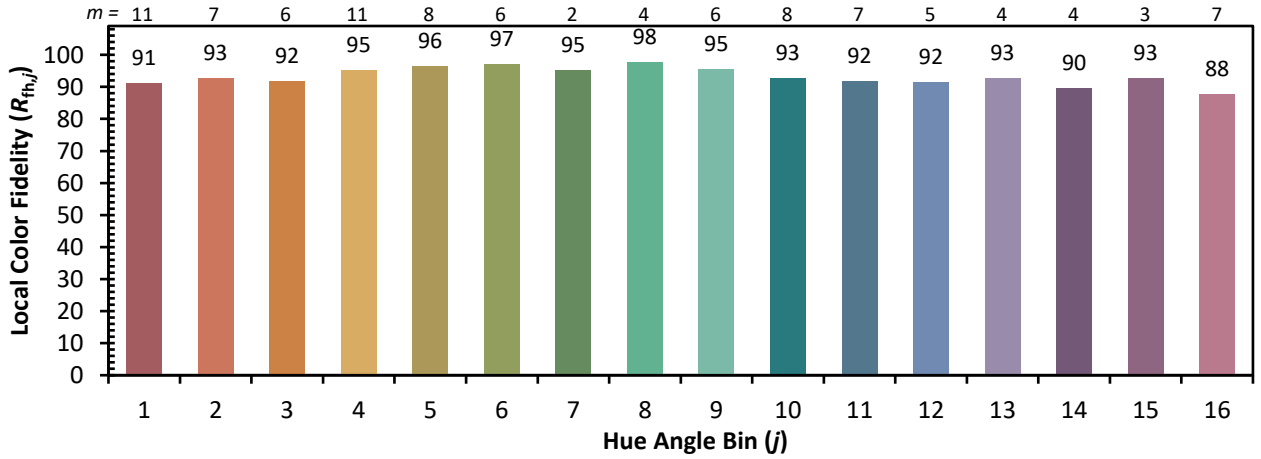
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### Color Rendition by Hue-Angle Bin



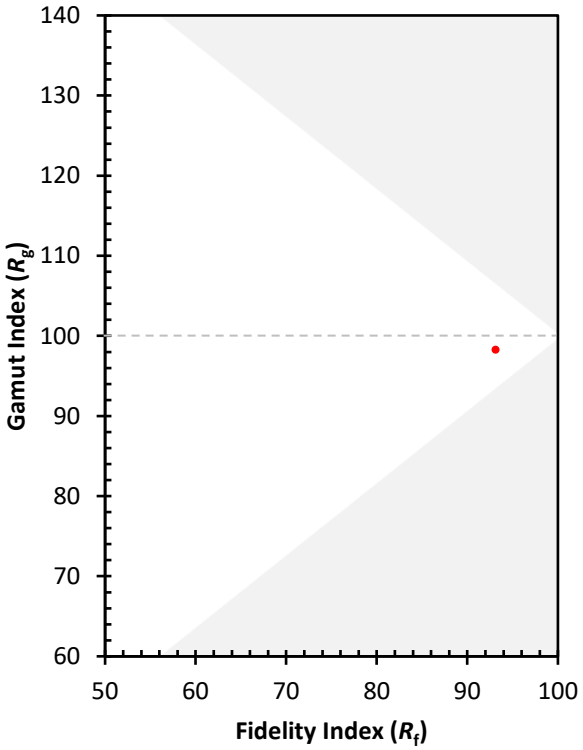



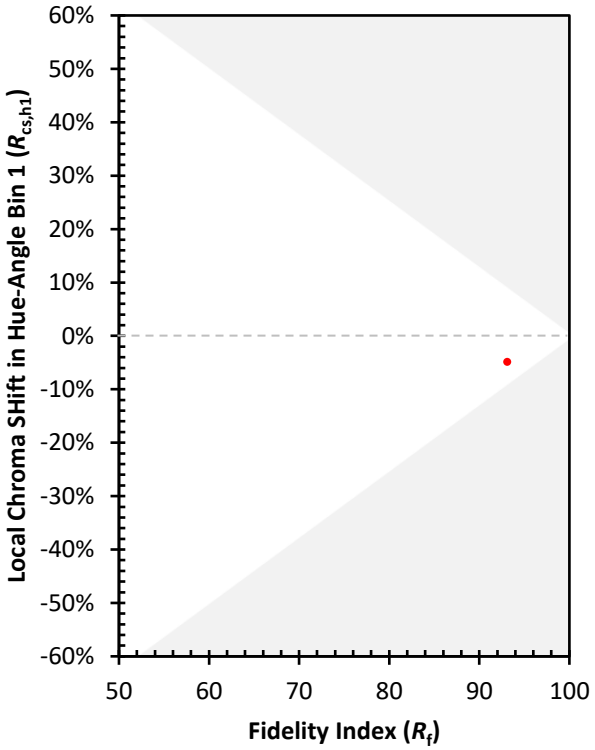
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### Measure Comparisons




(END OF REPORT)