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: P1501677

Luminaire Tested: GSS-SB5A-935-U-T2LG

Issue Date: 07/20/2026

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501677 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB5A-935-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 143W 90CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (130) 3500K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 15093.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 105.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

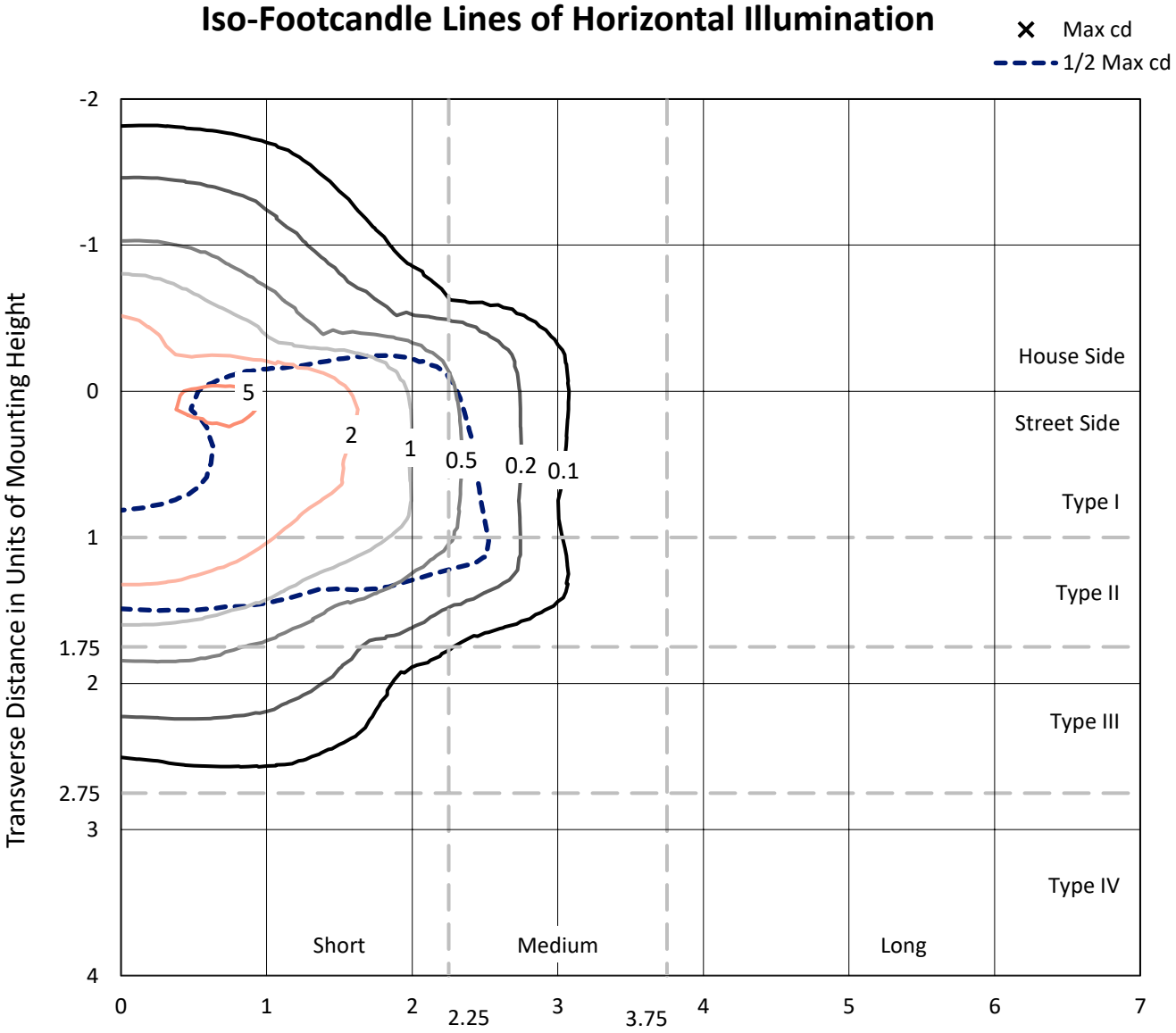
| | |
|---|---|
| Input Watts (W): | 143 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 10.5% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



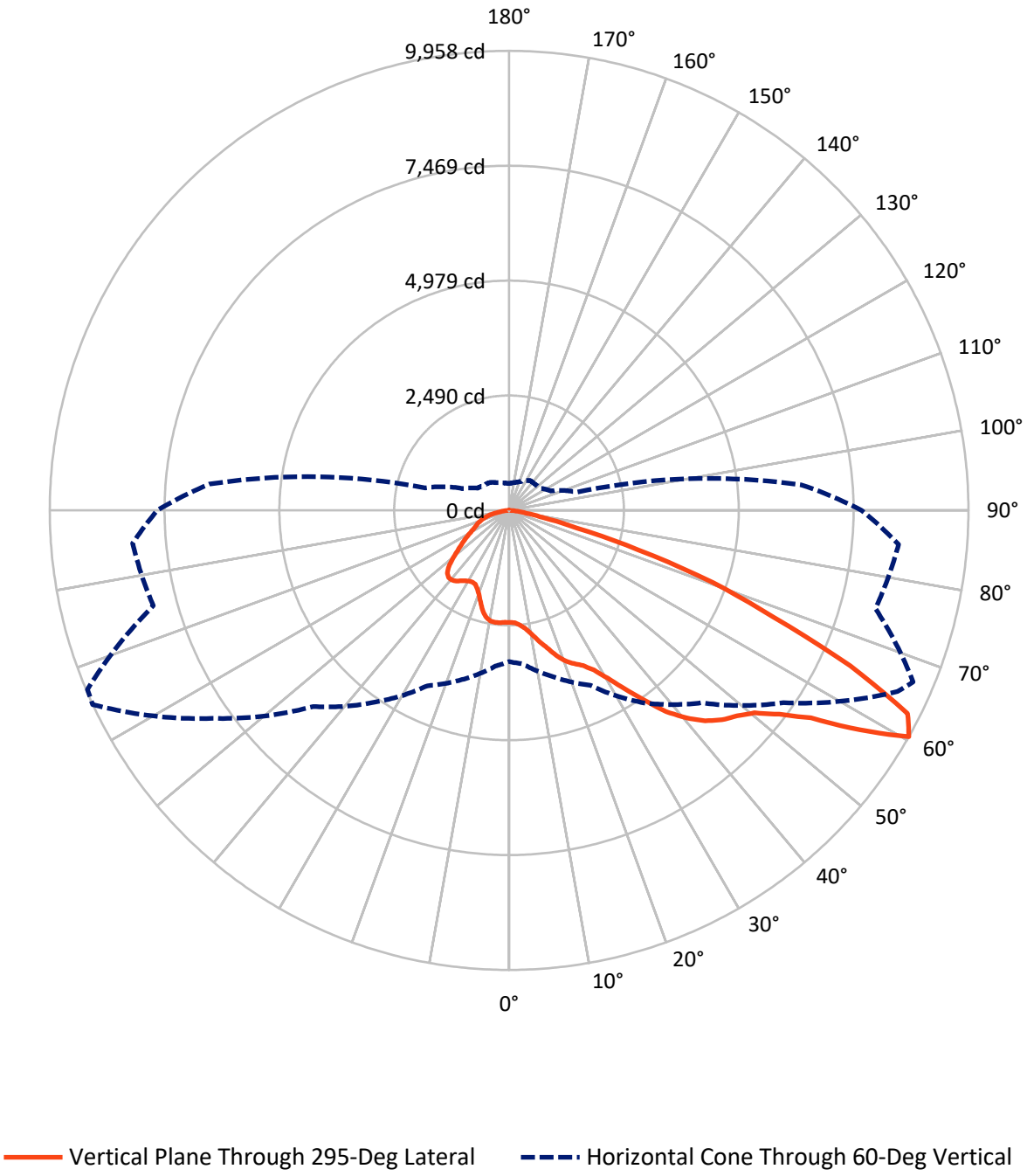

Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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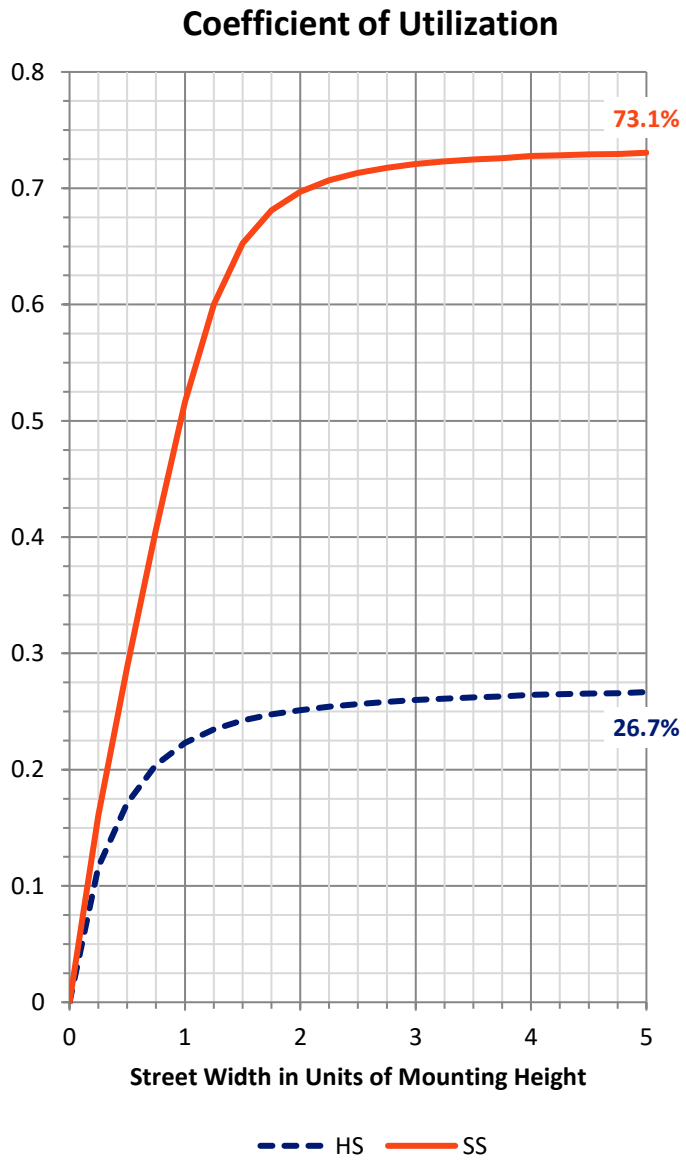
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 4058.9 | 0.0 | 4058.9 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 11034.9 | 0.0 | 11034.9 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 15093.8 | 0.0 | 15093.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 228.3 | 1.5 |
| 10°-20° | 656.4 | 4.3 |
| 20°-30° | 1243.3 | 8.2 |
| 30°-40° | 2191.9 | 14.5 |
| 40°-50° | 3241.6 | 21.5 |
| 50°-60° | 3806.5 | 25.2 |
| 60°-70° | 2758.0 | 18.3 |
| 70°-80° | 850.5 | 5.6 |
| 80°-90° | 117.1 | 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° | 15093.8 | 100.0 |
| 0°-180° | 15093.8 | 100.0 |



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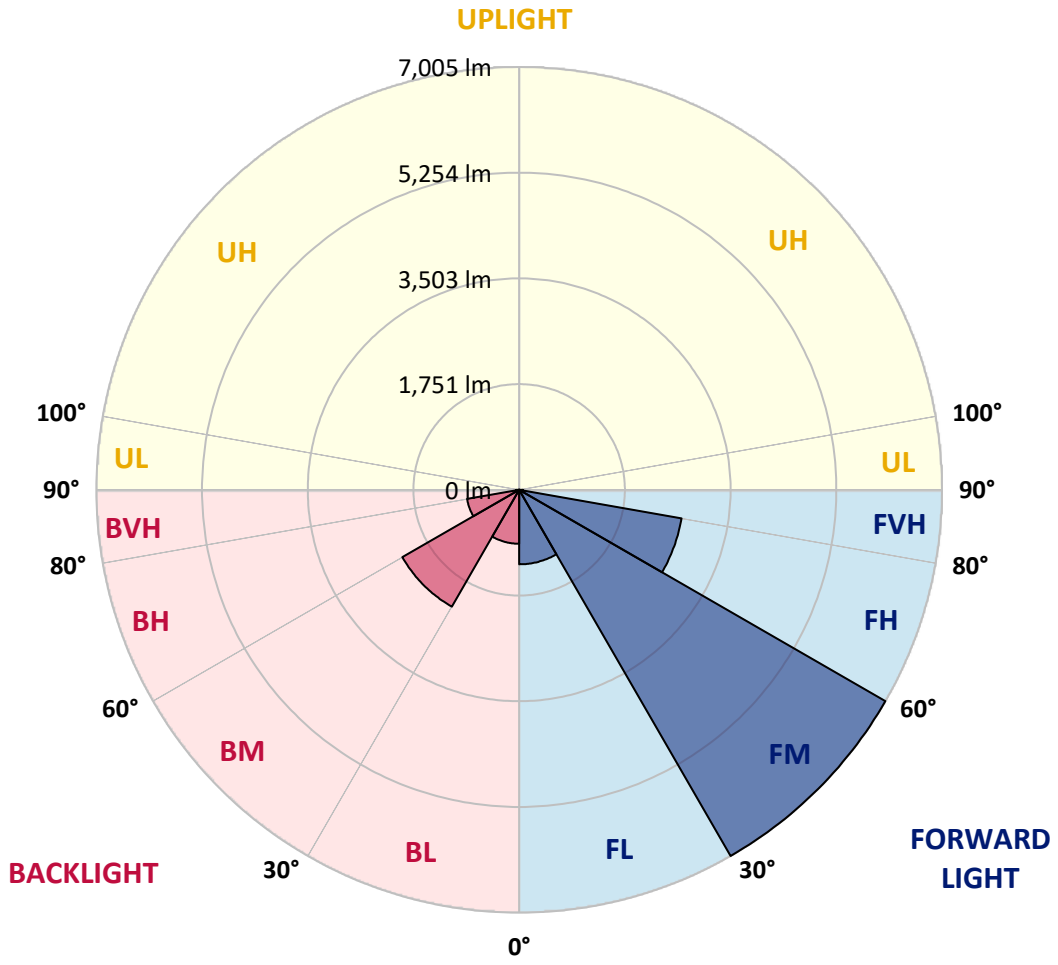
Scaled Data Report

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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°) | 1234.2 | 8.2 | | | |
| FM | (30°-60°) | 7005.1 | 46.4 | | | |
| FH | (60°-80°) | 2732.4 | 18.1 | | | G2/5000 |
| FVH | (80°-90°) | 63.2 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 893.9 | 5.9 | B2/1000 | | |
| BM | (30°-60°) | 2235.0 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 876.1 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 53.9 | 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° | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 |
| 2.5° | 2476.7 | 2483.6 | 2473.2 | 2480.1 | 2480.1 | 2469.8 | 2466.4 | 2452.6 | 2459.5 | 2456.0 | 2452.6 |
| 5° | 2535.1 | 2538.6 | 2531.7 | 2542.0 | 2542.0 | 2545.5 | 2542.0 | 2524.8 | 2524.8 | 2524.8 | 2518.0 |
| 7.5° | 2518.0 | 2518.0 | 2521.4 | 2555.8 | 2590.2 | 2634.9 | 2634.9 | 2628.0 | 2634.9 | 2631.5 | 2600.5 |
| 10° | 2373.5 | 2387.2 | 2418.2 | 2504.2 | 2586.7 | 2683.1 | 2748.4 | 2769.1 | 2769.1 | 2772.5 | 2720.9 |
| 12.5° | 2115.5 | 2125.8 | 2198.0 | 2328.8 | 2500.8 | 2676.2 | 2834.4 | 2937.6 | 2947.9 | 2965.1 | 2896.3 |
| 15° | 1885.0 | 1891.9 | 1943.5 | 2077.7 | 2273.7 | 2583.3 | 2882.6 | 3095.8 | 3130.2 | 3202.5 | 3099.3 |
| 17.5° | 1905.7 | 1902.2 | 1916.0 | 1967.6 | 2108.6 | 2432.0 | 2872.3 | 3281.6 | 3343.5 | 3470.8 | 3381.3 |
| 20° | 2029.5 | 2029.5 | 2039.8 | 2050.1 | 2101.7 | 2321.9 | 2796.6 | 3432.9 | 3553.3 | 3801.0 | 3697.8 |
| 22.5° | 2225.6 | 2225.6 | 2222.1 | 2239.3 | 2239.3 | 2370.0 | 2800.0 | 3546.5 | 3725.3 | 4169.1 | 4069.3 |
| 25° | 2497.3 | 2483.6 | 2483.6 | 2490.4 | 2459.5 | 2552.3 | 2886.0 | 3663.4 | 3897.3 | 4605.9 | 4519.9 |
| 27.5° | 2803.5 | 2813.8 | 2806.9 | 2782.8 | 2741.5 | 2813.8 | 3092.4 | 3845.7 | 4089.9 | 5066.9 | 5032.5 |
| 30° | 3137.1 | 3140.6 | 3147.4 | 3133.7 | 3099.3 | 3150.9 | 3415.7 | 4120.9 | 4344.5 | 5548.4 | 5624.1 |
| 32.5° | 3463.9 | 3512.1 | 3494.9 | 3460.5 | 3474.2 | 3567.1 | 3814.8 | 4492.4 | 4722.9 | 5995.6 | 6263.9 |
| 35° | 3880.1 | 3897.3 | 3966.1 | 3838.8 | 3842.3 | 4000.5 | 4323.9 | 4980.9 | 5204.5 | 6460.0 | 6903.7 |
| 37.5° | 4485.5 | 4516.5 | 4485.5 | 4286.0 | 4255.1 | 4475.2 | 4819.2 | 5462.4 | 5624.1 | 6810.8 | 7498.8 |
| 40° | 5080.6 | 5118.5 | 5170.1 | 4936.1 | 4740.1 | 4922.4 | 5287.0 | 5830.5 | 5999.1 | 7003.5 | 7894.4 |
| 42.5° | 5572.5 | 5634.4 | 5579.4 | 5510.6 | 5331.7 | 5366.1 | 5613.8 | 6116.0 | 6284.6 | 7247.7 | 8293.4 |
| 45° | 5988.7 | 5999.1 | 6023.1 | 5975.0 | 5885.5 | 5854.6 | 5892.4 | 6367.1 | 6552.9 | 7357.8 | 8489.5 |
| 47.5° | 6160.7 | 6205.4 | 6226.1 | 6308.6 | 6401.5 | 6339.6 | 6129.8 | 6484.1 | 6652.6 | 7350.9 | 8551.4 |
| 50° | 6067.8 | 6112.6 | 6222.6 | 6418.7 | 6642.3 | 6752.4 | 6408.4 | 6645.7 | 6834.9 | 7474.7 | 8678.7 |
| 52.5° | 5823.6 | 5871.8 | 6050.6 | 6274.2 | 6649.2 | 6900.3 | 6800.5 | 6982.8 | 7165.2 | 7694.9 | 8891.9 |
| 55° | 5232.0 | 5304.2 | 5555.3 | 5926.8 | 6442.8 | 6821.2 | 7213.3 | 7478.2 | 7677.7 | 7959.8 | 9112.1 |
| 57.5° | 4372.0 | 4447.7 | 4729.8 | 5287.0 | 6061.0 | 6494.4 | 7333.7 | 8406.9 | 8496.4 | 8276.2 | 9132.7 |
| 60° | *3274.7* | *3336.6* | *3735.6* | *4182.8* | *5090.9* | *5895.9* | *7264.9* | *9287.5* | *9514.6* | *8221.2* | *8475.7* |
| 62.5° | 2593.6 | 2669.3 | 3023.6 | 3230.0 | 3880.1 | 4870.8 | 7024.1 | 9531.8 | 9727.8 | 7767.1 | 7560.7 |
| 65° | 2026.1 | 2077.7 | 2407.9 | 2703.7 | 2861.9 | 3326.3 | 6019.7 | 8338.1 | 8513.6 | 7027.6 | 6239.8 |
| 67.5° | 1338.1 | 1417.2 | 1809.3 | 2215.2 | 2297.8 | 2115.5 | 4141.5 | 6415.3 | 6497.8 | 5586.3 | 4691.9 |
| 70° | 959.7 | 997.5 | 1289.9 | 1723.4 | 1847.2 | 1417.2 | 2256.5 | 4857.0 | 4881.1 | 3749.4 | 3161.2 |
| 72.5° | 653.6 | 660.4 | 877.2 | 1320.9 | 1472.2 | 1028.5 | 1241.8 | 3199.0 | 3116.5 | 1850.6 | 1809.3 |
| 75° | 443.7 | 450.6 | 560.7 | 880.6 | 1042.3 | 715.5 | 808.4 | 1744.0 | 1675.2 | 1021.6 | 1097.3 |
| 77.5° | 299.3 | 306.1 | 385.3 | 591.6 | 694.8 | 495.3 | 591.6 | 921.9 | 904.7 | 677.6 | 588.2 |
| 80° | 227.0 | 237.3 | 285.5 | 378.4 | 485.0 | 288.9 | 337.1 | 436.9 | 443.7 | 361.2 | 299.3 |
| 82.5° | 127.3 | 141.0 | 172.0 | 192.6 | 313.0 | 161.7 | 161.7 | 261.4 | 251.1 | 223.6 | 161.7 |
| 85° | 55.0 | 58.5 | 68.8 | 72.2 | 127.3 | 68.8 | 58.5 | 113.5 | 117.0 | 110.1 | 51.6 |
| 87.5° | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 13.8 | 13.8 | 13.8 | 13.8 |
| 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 |
| 2.5° | 2435.4 | 2456.0 | 2435.4 | 2425.1 | 2425.1 | 2407.9 | 2401.0 | 2401.0 | 2376.9 | 2387.2 | 2380.4 |
| 5° | 2490.4 | 2497.3 | 2473.2 | 2442.3 | 2401.0 | 2366.6 | 2318.4 | 2256.5 | 2218.7 | 2215.2 | 2218.7 |
| 7.5° | 2576.4 | 2579.9 | 2514.5 | 2445.7 | 2342.5 | 2218.7 | 2070.8 | 1950.4 | 1843.7 | 1826.5 | 1847.2 |
| 10° | 2696.8 | 2689.9 | 2593.6 | 2432.0 | 2215.2 | 1953.8 | 1726.8 | 1616.7 | 1554.8 | 1551.4 | 1547.9 |
| 12.5° | 2858.5 | 2813.8 | 2665.9 | 2373.5 | 1995.1 | 1692.4 | 1575.4 | 1568.6 | 1585.8 | 1599.5 | 1603.0 |
| 15° | 3044.2 | 2985.8 | 2724.3 | 2260.0 | 1771.5 | 1596.1 | 1603.0 | 1661.4 | 1682.1 | 1695.8 | 1695.8 |
| 17.5° | 3274.7 | 3199.0 | 2789.7 | 2098.3 | 1658.0 | 1616.7 | 1664.9 | 1719.9 | 1754.3 | 1768.1 | 1764.6 |
| 20° | 3580.9 | 3422.6 | 2841.3 | 1943.5 | 1627.0 | 1651.1 | 1692.4 | 1747.4 | 1781.8 | 1799.0 | 1799.0 |
| 22.5° | 3887.0 | 3690.9 | 2851.6 | 1836.9 | 1627.0 | 1654.6 | 1692.4 | 1747.4 | 1785.3 | 1802.5 | 1799.0 |
| 25° | 4303.2 | 4034.9 | 2855.1 | 1761.2 | 1630.5 | 1637.4 | 1671.8 | 1719.9 | 1774.9 | 1792.1 | 1799.0 |
| 27.5° | 4747.0 | 4413.3 | 2872.3 | 1744.0 | 1616.7 | 1613.3 | 1637.4 | 1682.1 | 1737.1 | 1781.8 | 1785.3 |
| 30° | 5297.3 | 4839.8 | 2879.1 | 1761.2 | 1620.2 | 1575.4 | 1592.6 | 1637.4 | 1695.8 | 1740.6 | 1754.3 |
| 32.5° | 5837.4 | 5235.4 | 2865.4 | 1799.0 | 1627.0 | 1551.4 | 1554.8 | 1582.3 | 1644.2 | 1675.2 | 1699.3 |
| 35° | 6408.4 | 5655.1 | 2841.3 | 1850.6 | 1630.5 | 1541.0 | 1510.1 | 1523.8 | 1565.1 | 1568.6 | 1578.9 |
| 37.5° | 6855.6 | 5968.1 | 2769.1 | 1919.4 | 1637.4 | 1503.2 | 1441.3 | 1431.0 | 1413.8 | 1379.4 | 1386.2 |
| 40° | 7223.6 | 6177.9 | 2648.7 | 1953.8 | 1620.2 | 1458.5 | 1355.3 | 1307.1 | 1241.8 | 1190.2 | 1200.5 |
| 42.5° | 7488.5 | 6319.0 | 2504.2 | 1960.7 | 1592.6 | 1382.8 | 1255.5 | 1173.0 | 1100.7 | 1045.7 | 1049.1 |
| 45° | 7605.4 | 6305.2 | 2349.4 | 1909.1 | 1527.3 | 1289.9 | 1162.7 | 1083.5 | 1004.4 | 946.0 | 939.1 |
| 47.5° | 7608.9 | 6171.0 | 2136.1 | 1785.3 | 1417.2 | 1183.3 | 1076.7 | 990.7 | 925.3 | 884.0 | 880.6 |
| 50° | 7636.4 | 6095.4 | 1936.6 | 1606.4 | 1272.7 | 1069.8 | 1001.0 | 915.0 | 877.2 | 818.7 | 801.5 |
| 52.5° | 7808.4 | 6219.2 | 1799.0 | 1410.3 | 1138.6 | 987.2 | 935.6 | 860.0 | 798.0 | 760.2 | 756.8 |
| 55° | 8087.0 | 6432.5 | 1723.4 | 1262.4 | 1011.3 | 908.1 | 873.7 | 808.4 | 753.3 | 715.5 | 705.2 |
| 57.5° | 8121.4 | 6542.5 | 1633.9 | 1124.8 | 908.1 | 846.2 | 832.4 | 760.2 | 681.1 | 653.6 | 643.2 |
| 60° | *7639.8* | *6356.8* | *1523.8* | *997.5* | *832.4* | *798.0* | *791.2* | *694.8* | *629.5* | *595.1* | *581.3* |
| 62.5° | 6982.8 | 5892.4 | 1355.3 | 880.6 | 774.0 | 749.9 | 722.4 | 646.7 | 564.1 | 526.3 | 516.0 |
| 65° | 5706.7 | 4953.3 | 1152.3 | 801.5 | 715.5 | 688.0 | 681.1 | 577.9 | 522.9 | 502.2 | 498.8 |
| 67.5° | 4323.9 | 3979.9 | 1014.7 | 743.0 | 653.6 | 643.2 | 619.2 | 584.8 | 560.7 | 536.6 | 529.7 |
| 70° | 3058.0 | 2872.3 | 863.4 | 667.3 | 591.6 | 574.5 | 674.2 | 636.4 | 550.4 | 519.4 | 516.0 |
| 72.5° | 1854.1 | 1802.5 | 746.4 | 598.5 | 509.1 | 536.6 | 622.6 | 574.5 | 495.3 | 457.5 | 443.7 |
| 75° | 1169.5 | 1069.8 | 626.0 | 509.1 | 405.9 | 436.9 | 543.5 | 512.5 | 426.5 | 388.7 | 378.4 |
| 77.5° | 636.4 | 591.6 | 471.3 | 416.2 | 319.9 | 354.3 | 474.7 | 423.1 | 340.5 | 371.5 | 330.2 |
| 80° | 278.6 | 309.6 | 313.0 | 240.8 | 213.3 | 261.4 | 340.5 | 330.2 | 261.4 | 264.9 | 220.1 |
| 82.5° | 134.2 | 175.4 | 202.9 | 165.1 | 120.4 | 154.8 | 227.0 | 189.2 | 175.4 | 165.1 | 158.2 |
| 85° | 41.3 | 65.4 | 89.4 | 79.1 | 55.0 | 65.4 | 106.6 | 103.2 | 123.8 | 106.6 | 99.8 |
| 87.5° | 13.8 | 13.8 | 10.3 | 10.3 | 10.3 | 13.8 | 17.2 | 10.3 | 3.4 | 3.4 | 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° | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 |
| 2.5° | 2376.9 | 2380.4 | 2380.4 | 2383.8 | 2383.8 | 2394.1 | 2407.9 | 2421.6 | 2411.3 | 2425.1 | 2428.5 |
| 5° | 2211.8 | 2229.0 | 2242.8 | 2294.4 | 2335.6 | 2370.0 | 2407.9 | 2442.3 | 2452.6 | 2459.5 | 2476.7 |
| 7.5° | 1823.1 | 1871.3 | 1960.7 | 2077.7 | 2208.4 | 2335.6 | 2421.6 | 2511.1 | 2524.8 | 2542.0 | 2566.1 |
| 10° | 1551.4 | 1572.0 | 1633.9 | 1754.3 | 1988.2 | 2239.3 | 2449.2 | 2590.2 | 2648.7 | 2683.1 | 2707.1 |
| 12.5° | 1596.1 | 1582.3 | 1572.0 | 1589.2 | 1740.6 | 2063.9 | 2432.0 | 2703.7 | 2813.8 | 2851.6 | 2882.6 |
| 15° | 1702.7 | 1689.0 | 1651.1 | 1603.0 | 1620.2 | 1878.1 | 2373.5 | 2810.3 | 2985.8 | 3047.7 | 3113.0 |
| 17.5° | 1764.6 | 1750.9 | 1719.9 | 1668.3 | 1623.6 | 1723.4 | 2263.4 | 2906.7 | 3257.5 | 3333.2 | 3426.1 |
| 20° | 1799.0 | 1785.3 | 1754.3 | 1702.7 | 1651.1 | 1664.9 | 2122.4 | 3027.0 | 3567.1 | 3687.5 | 3825.1 |
| 22.5° | 1805.9 | 1788.7 | 1754.3 | 1702.7 | 1671.8 | 1661.4 | 1988.2 | 3099.3 | 3900.8 | 4086.5 | 4244.7 |
| 25° | 1802.5 | 1771.5 | 1726.8 | 1689.0 | 1671.8 | 1668.3 | 1895.3 | 3140.6 | 4261.9 | 4557.8 | 4736.6 |
| 27.5° | 1778.4 | 1740.6 | 1695.8 | 1668.3 | 1661.4 | 1682.1 | 1854.1 | 3188.7 | 4685.0 | 5063.4 | 5348.9 |
| 30° | 1750.9 | 1695.8 | 1640.8 | 1630.5 | 1647.7 | 1713.0 | 1888.5 | 3205.9 | 5128.8 | 5613.8 | 5906.2 |
| 32.5° | 1678.6 | 1637.4 | 1582.3 | 1578.9 | 1620.2 | 1737.1 | 1967.6 | 3181.8 | 5520.9 | 6164.2 | 6532.2 |
| 35° | 1575.4 | 1551.4 | 1520.4 | 1530.7 | 1596.1 | 1757.7 | 2022.6 | 3106.2 | 5878.7 | 6676.7 | 7106.7 |
| 37.5° | 1393.1 | 1410.3 | 1427.5 | 1451.6 | 1534.2 | 1754.3 | 2046.7 | 2985.8 | 6174.5 | 7086.0 | 7636.4 |
| 40° | 1190.2 | 1248.7 | 1303.7 | 1365.6 | 1475.7 | 1726.8 | 2053.6 | 2837.9 | 6346.5 | 7395.6 | 8107.7 |
| 42.5° | 1062.9 | 1117.9 | 1186.7 | 1276.2 | 1396.6 | 1664.9 | 2046.7 | 2672.7 | 6401.5 | 7608.9 | 8406.9 |
| 45° | 946.0 | 1011.3 | 1097.3 | 1190.2 | 1327.8 | 1575.4 | 1984.8 | 2493.9 | 6429.0 | 7708.6 | 8534.2 |
| 47.5° | 884.0 | 921.9 | 1001.0 | 1093.9 | 1238.3 | 1465.4 | 1864.4 | 2363.2 | 6387.8 | 7729.3 | 8689.0 |
| 50° | 811.8 | 863.4 | 915.0 | 1004.4 | 1145.5 | 1327.8 | 1719.9 | 2287.5 | 6456.5 | 7932.2 | 8933.2 |
| 52.5° | 756.8 | 784.3 | 839.3 | 921.9 | 1025.1 | 1200.5 | 1582.3 | 2225.6 | 6645.7 | 8138.6 | 9187.8 |
| 55° | 715.5 | 746.4 | 780.8 | 849.6 | 928.8 | 1073.2 | 1441.3 | 2132.7 | 6865.9 | 8358.8 | 9442.3 |
| 57.5° | 650.1 | 670.8 | 718.9 | 791.2 | 842.8 | 949.4 | 1276.2 | 2022.6 | 6848.7 | 8186.8 | 9002.0 |
| 60° | *591.6* | *612.3* | *663.9* | *736.1* | *767.1* | *839.3* | *1114.5* | *1881.6* | *6518.5* | *7626.1* | *8190.2* |
| 62.5° | 526.3 | 550.4 | 612.3 | 663.9 | 691.4 | 746.4 | 946.0 | 1623.6 | 5830.5 | 6783.3 | 7240.8 |
| 65° | 498.8 | 512.5 | 553.8 | 615.7 | 612.3 | 663.9 | 798.0 | 1276.2 | 4691.9 | 5183.8 | 5600.0 |
| 67.5° | 529.7 | 550.4 | 543.5 | 560.7 | 550.4 | 577.9 | 715.5 | 1025.1 | 3687.5 | 3904.2 | 4145.0 |
| 70° | 522.9 | 571.0 | 595.1 | 560.7 | 481.6 | 512.5 | 619.2 | 818.7 | 2638.3 | 2617.7 | 2607.4 |
| 72.5° | 457.5 | 505.7 | 574.5 | 608.8 | 471.3 | 426.5 | 536.6 | 708.6 | 1692.4 | 1685.5 | 1523.8 |
| 75° | 388.7 | 423.1 | 505.7 | 550.4 | 405.9 | 344.0 | 460.9 | 602.0 | 1011.3 | 1025.1 | 915.0 |
| 77.5° | 357.7 | 340.5 | 423.1 | 485.0 | 330.2 | 264.9 | 371.5 | 454.1 | 557.3 | 564.1 | 522.9 |
| 80° | 258.0 | 247.7 | 316.5 | 354.3 | 251.1 | 189.2 | 209.8 | 282.1 | 299.3 | 268.3 | 278.6 |
| 82.5° | 165.1 | 168.6 | 189.2 | 227.0 | 154.8 | 103.2 | 144.5 | 189.2 | 161.7 | 130.7 | 154.8 |
| 85° | 106.6 | 120.4 | 99.8 | 117.0 | 48.2 | 48.2 | 61.9 | 82.6 | 55.0 | 37.8 | 41.3 |
| 87.5° | 0.0 | 0.0 | 6.9 | 13.8 | 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: P1501677
CATALOG NUMBER: GSS-SB5A-935-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2428.5 | 2428.5 | *2428.5* | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 | 2428.5 |
| 2.5° | 2438.8 | 2435.4 | *2435.4* | 2442.3 | 2459.5 | 2466.4 | 2476.7 | 2473.2 | 2483.6 | 2476.7 |
| 5° | 2487.0 | 2490.4 | *2500.8* | 2504.2 | 2514.5 | 2528.3 | 2531.7 | 2528.3 | 2535.1 | 2535.1 |
| 7.5° | 2583.3 | 2597.1 | *2590.2* | 2607.4 | 2593.6 | 2576.4 | 2548.9 | 2528.3 | 2511.1 | 2518.0 |
| 10° | 2745.0 | 2738.1 | *2734.7* | 2703.7 | 2641.8 | 2552.3 | 2480.1 | 2401.0 | 2387.2 | 2373.5 |
| 12.5° | 2923.8 | 2917.0 | *2917.0* | 2810.3 | 2634.9 | 2449.2 | 2284.0 | 2160.2 | 2118.9 | 2115.5 |
| 15° | 3175.0 | 3130.2 | *3089.0* | 2865.4 | 2514.5 | 2198.0 | 2005.4 | 1909.1 | 1885.0 | 1885.0 |
| 17.5° | 3488.0 | 3371.0 | *3302.2* | 2824.1 | 2318.4 | 2032.9 | 1919.4 | 1895.3 | 1888.5 | 1905.7 |
| 20° | 3876.7 | 3580.9 | *3481.1* | 2731.2 | 2246.2 | 2053.6 | 1998.5 | 2002.0 | 2005.4 | 2029.5 |
| 22.5° | 4303.2 | 3773.5 | *3608.4* | 2731.2 | 2318.4 | 2184.3 | 2156.8 | 2194.6 | 2204.9 | 2225.6 |
| 25° | 4777.9 | 3945.5 | *3721.9* | 2875.7 | 2531.7 | 2432.0 | 2397.6 | 2435.4 | 2462.9 | 2497.3 |
| 27.5° | 5311.1 | 4124.3 | *3918.0* | 3137.1 | 2806.9 | 2745.0 | 2707.1 | 2724.3 | 2762.2 | 2803.5 |
| 30° | 5789.2 | 4423.6 | *4217.2* | 3536.1 | 3181.8 | 3106.2 | 3040.8 | 3068.3 | 3109.6 | 3137.1 |
| 32.5° | 6212.3 | 4788.2 | *4612.8* | 3955.8 | 3611.8 | 3481.1 | 3408.9 | 3402.0 | 3484.5 | 3463.9 |
| 35° | 6601.0 | 5218.2 | *5049.7* | 4433.9 | 4048.7 | 3887.0 | 3790.7 | 3914.5 | 3859.5 | 3880.1 |
| 37.5° | 6907.2 | 5665.4 | *5531.2* | 4891.4 | 4502.7 | 4282.6 | 4224.1 | 4375.5 | 4461.5 | 4485.5 |
| 40° | 7158.3 | 6054.1 | *5913.1* | 5345.5 | 4918.9 | 4757.3 | 4850.2 | 5101.3 | 5090.9 | 5080.6 |
| 42.5° | 7350.9 | 6387.8 | *6233.0* | 5689.5 | 5318.0 | 5348.9 | 5421.2 | 5589.7 | 5631.0 | 5572.5 |
| 45° | 7436.9 | 6597.6 | *6473.7* | 5961.2 | 5772.0 | 5950.9 | 5981.9 | 6054.1 | 6026.6 | 5988.7 |
| 47.5° | 7536.7 | 6783.3 | *6652.6* | 6208.9 | 6263.9 | 6439.3 | 6377.4 | 6319.0 | 6219.2 | 6160.7 |
| 50° | 7705.2 | 7003.5 | *6893.4* | 6570.1 | 6769.6 | 6711.1 | 6470.3 | 6339.6 | 6136.6 | 6067.8 |
| 52.5° | 8025.1 | 7419.7 | *7337.1* | 7141.1 | 7006.9 | 6669.8 | 6377.4 | 6143.5 | 5916.5 | 5823.6 |
| 55° | 8310.6 | 7983.8 | *7935.7* | 7674.2 | 6934.7 | 6453.1 | 6061.0 | 5699.8 | 5311.1 | 5232.0 |
| 57.5° | 8475.7 | 8919.5 | *8974.5* | 7901.3 | 6604.5 | 5961.2 | 5383.3 | 4805.4 | 4437.4 | 4372.0 |
| 60° | *7983.8* | *9930.8* | *9958.3* | *7856.6* | *6009.4* | *5073.7* | *4193.1* | *3783.8* | *3388.2* | *3274.7* |
| 62.5° | 7306.2 | 9720.9 | *9696.9* | 7588.3 | 4784.8 | 3701.2 | 3185.3 | 2992.6 | 2686.5 | 2593.6 |
| 65° | 6281.1 | 8097.3 | *8124.9* | 6556.3 | 3181.8 | 2676.2 | 2676.2 | 2432.0 | 2091.4 | 2026.1 |
| 67.5° | 5118.5 | 6243.3 | *6181.4* | 4251.6 | 1953.8 | 2143.0 | 2246.2 | 1895.3 | 1417.2 | 1338.1 |
| 70° | 3326.3 | 4767.6 | *4681.6* | 2452.6 | 1228.0 | 1785.3 | 1768.1 | 1424.1 | 1014.7 | 959.7 |
| 72.5° | 1431.0 | 2755.3 | *2930.7* | 1252.1 | 925.3 | 1437.8 | 1410.3 | 997.5 | 677.6 | 653.6 |
| 75° | 863.4 | 1386.2 | *1510.1* | 798.0 | 674.2 | 1083.5 | 976.9 | 632.9 | 460.9 | 443.7 |
| 77.5° | 546.9 | 760.2 | *753.3* | 598.5 | 505.7 | 732.7 | 657.0 | 436.9 | 313.0 | 299.3 |
| 80° | 316.5 | 374.9 | *388.7* | 374.9 | 340.5 | 522.9 | 419.7 | 316.5 | 244.2 | 227.0 |
| 82.5° | 202.9 | 233.9 | *237.3* | 182.3 | 189.2 | 337.1 | 227.0 | 185.8 | 141.0 | 127.3 |
| 85° | 89.4 | 99.8 | *96.3* | 61.9 | 61.9 | 137.6 | 79.1 | 75.7 | 55.0 | 55.0 |
| 87.5° | 3.4 | 6.9 | *3.4* | 3.4 | 3.4 | 13.8 | 6.9 | 10.3 | 10.3 | 10.3 |
| 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: SP1-2106-271-3

Luminaire Tested: GFLD-SA1-A-935-U-WR-X-BK

Test Date: 06/15/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

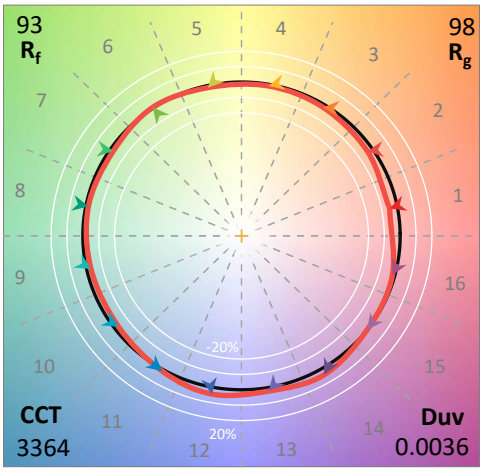
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-3 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-935-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3364 | CRI (Ra): | 92.0 | | |
| CIE u': | 0.2376 | R1: | 91.7 | R9: | 59.7 |
| CIE v': | 0.5188 | R2: | 94.0 | R10: | 85.2 |
| Duv: | 0.0036 | R3: | 95.5 | R11: | 92.8 |
| CIE x: | 0.4173 | R4: | 93.0 | R12: | 78.2 |
| CIE y: | 0.4050 | R5: | 90.9 | R13: | 92.0 |
| CIE z: | 0.1777 | R6: | 92.2 | R14: | 96.9 |
| Peak Wavelength (nm): | 622 | R7: | 94.8 | | |
| Dominant Wavelength (nm): | 580 | R8: | 84.1 | | |
| Purity: | 46.9 | | | | |

| | |
|---|---|
| Rf: | 92.6 |
| Rg: | 98.3 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 76M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.8/44% |
| Sphere Temperature (°C): | 24.9 |

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

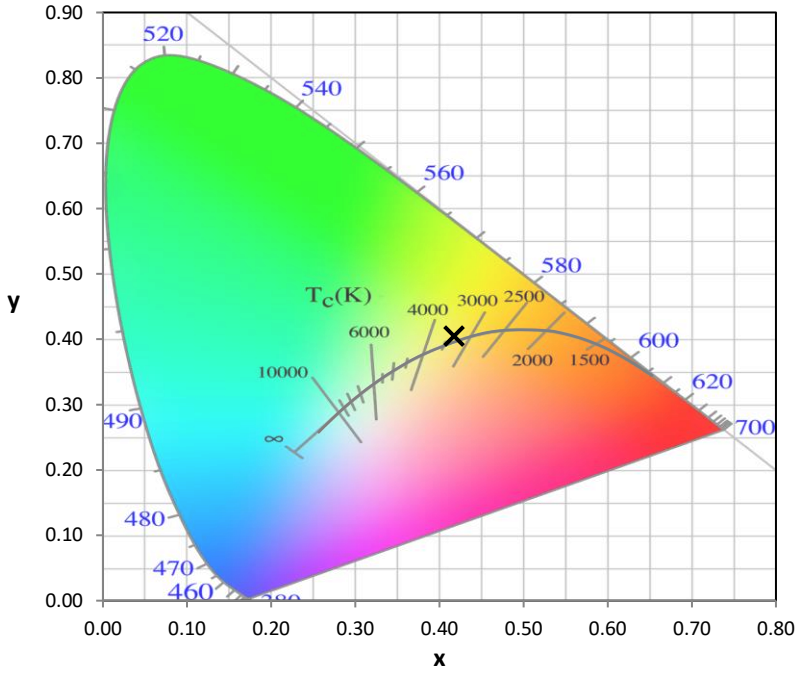
REPORT NUMBER: SP1-2106-271-3

| 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 |

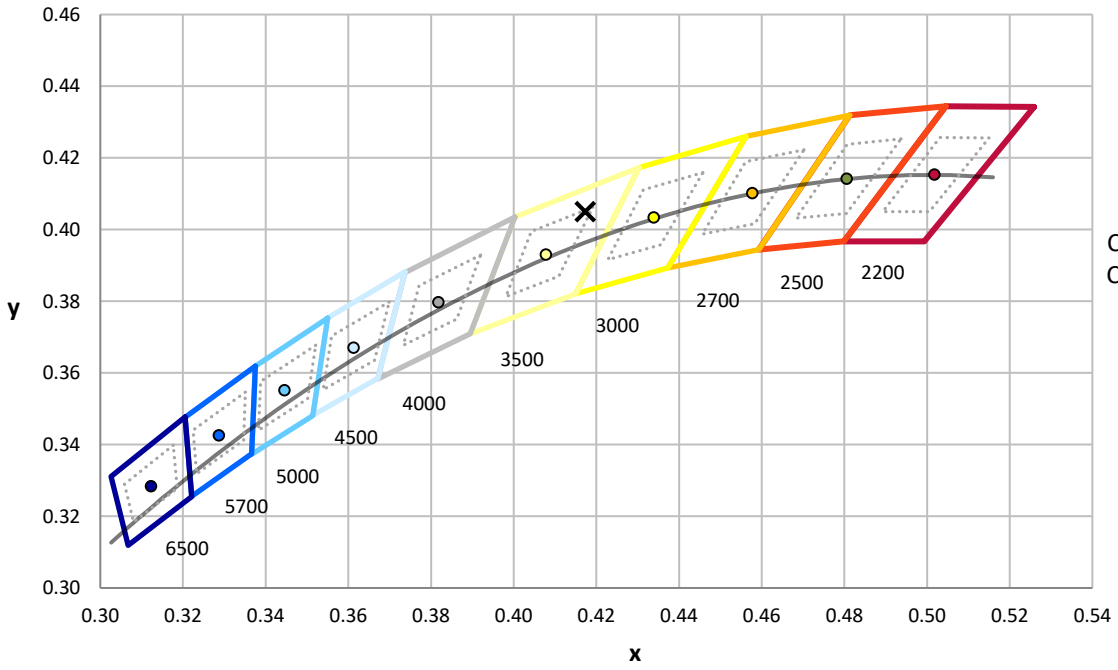
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-3

## CIE 1931 Chromaticity Diagram




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



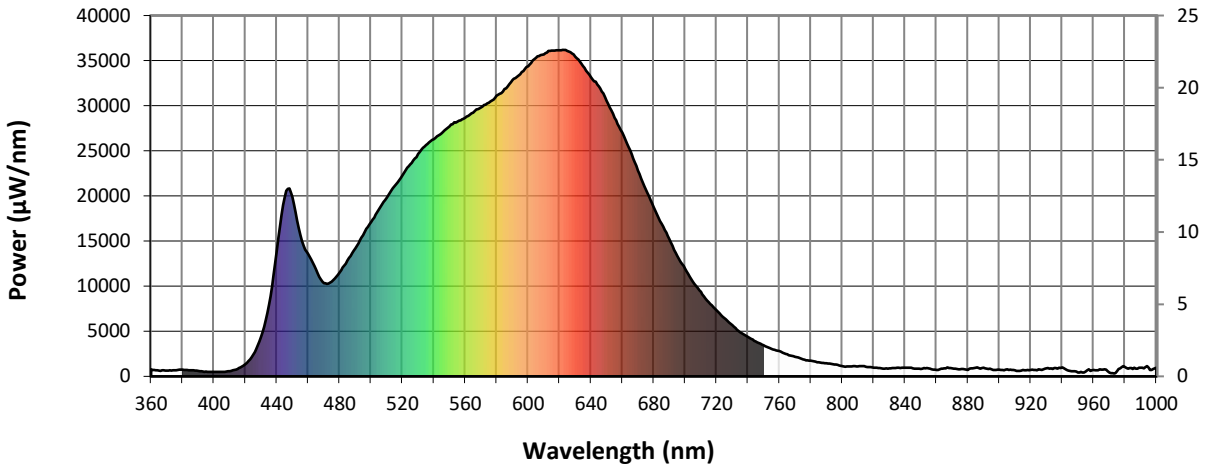

CCT = 3364K
CIE x = 0.4173
CIE y = 0.4050
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-3

## Photopic Flux vs. Wavelength



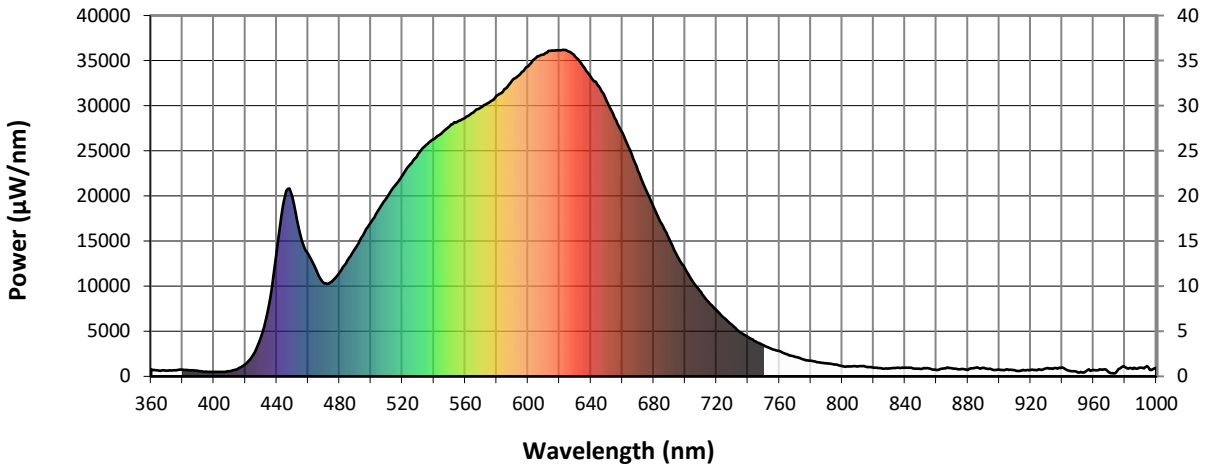

######

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-3

## Scotopic Flux vs. Wavelength



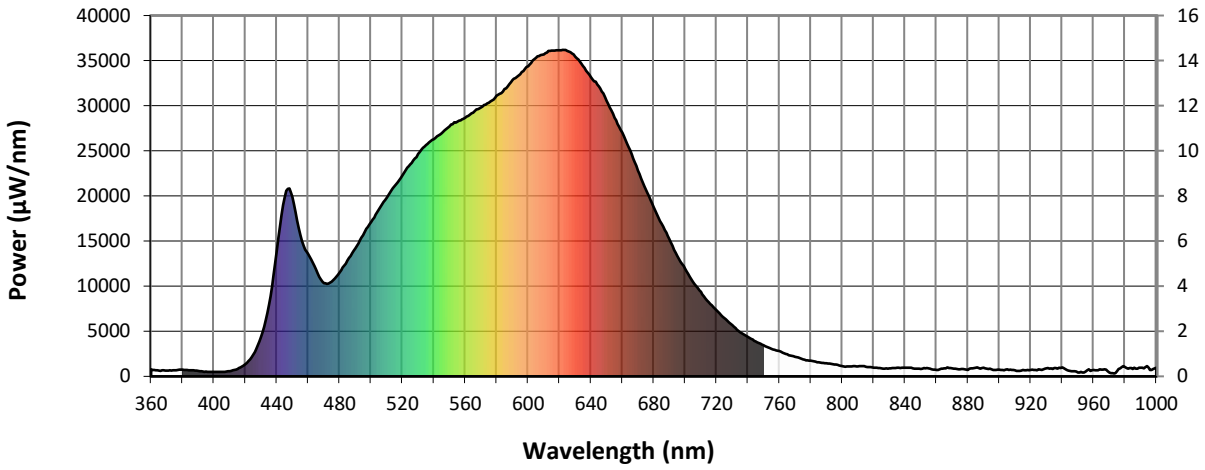

**Scotopic Lumens: 3109.5** **S/P: 1.54**

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-3

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1210.8** **S/P: 0.6**

| 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 | 792 | NR | 490 | 14205 | NR | 620 | 36151 | NR | 750 | 3427 | NR | 880 | 712 | NR |
| 365 | 640 | NR | 495 | 15647 | NR | 625 | 36077 | NR | 755 | 3047 | NR | 885 | 942 | NR |
| 370 | 630 | NR | 500 | 17088 | NR | 630 | 35451 | NR | 760 | 2790 | NR | 890 | 952 | NR |
| 375 | 684 | NR | 505 | 18475 | NR | 635 | 34417 | NR | 765 | 2433 | NR | 895 | 764 | NR |
| 380 | 731 | NR | 510 | 19780 | NR | 640 | 33166 | NR | 770 | 2178 | NR | 900 | 743 | NR |
| 385 | 664 | NR | 515 | 21055 | NR | 645 | 32124 | NR | 775 | 1893 | NR | 905 | 776 | NR |
| 390 | 595 | NR | 520 | 22268 | NR | 650 | 30559 | NR | 780 | 1724 | NR | 910 | 659 | NR |
| 395 | 520 | NR | 525 | 23497 | NR | 655 | 28656 | NR | 785 | 1549 | NR | 915 | 701 | NR |
| 400 | 491 | NR | 530 | 24653 | NR | 660 | 27033 | NR | 790 | 1451 | NR | 920 | 728 | NR |
| 405 | 489 | NR | 535 | 25661 | NR | 665 | 25030 | NR | 795 | 1317 | NR | 925 | 793 | NR |
| 410 | 585 | NR | 540 | 26289 | NR | 670 | 22820 | NR | 800 | 1124 | NR | 930 | 877 | NR |
| 415 | 826 | NR | 545 | 26945 | NR | 675 | 20678 | NR | 805 | 1116 | NR | 935 | 923 | NR |
| 420 | 1336 | NR | 550 | 27713 | NR | 680 | 18748 | NR | 810 | 1105 | NR | 940 | 1001 | NR |
| 425 | 2406 | NR | 555 | 28230 | NR | 685 | 16904 | NR | 815 | 1073 | NR | 945 | 604 | NR |
| 430 | 4355 | NR | 560 | 28678 | NR | 690 | 15203 | NR | 820 | 977 | NR | 950 | 424 | NR |
| 435 | 7911 | NR | 565 | 29242 | NR | 695 | 13356 | NR | 825 | 882 | NR | 955 | 550 | NR |
| 440 | 13821 | NR | 570 | 29806 | NR | 700 | 11948 | NR | 830 | 875 | NR | 960 | 709 | NR |
| 445 | 19836 | NR | 575 | 30322 | NR | 705 | 10482 | NR | 835 | 944 | NR | 965 | 755 | NR |
| 450 | 19902 | NR | 580 | 31125 | NR | 710 | 9351 | NR | 840 | 956 | NR | 970 | 426 | NR |
| 455 | 15697 | NR | 585 | 31838 | NR | 715 | 8217 | NR | 845 | 875 | NR | 975 | 556 | NR |
| 460 | 13589 | NR | 590 | 32845 | NR | 720 | 7313 | NR | 850 | 801 | NR | 980 | 1040 | NR |
| 465 | 11857 | NR | 595 | 33487 | NR | 725 | 6460 | NR | 855 | 890 | NR | 985 | 833 | NR |
| 470 | 10336 | NR | 600 | 34359 | NR | 730 | 5680 | NR | 860 | 706 | NR | 990 | 964 | NR |
| 475 | 10504 | NR | 605 | 35281 | NR | 735 | 4904 | NR | 865 | 902 | NR | 995 | 953 | NR |
| 480 | 11526 | NR | 610 | 35679 | NR | 740 | 4372 | NR | 870 | 879 | NR | 1000 | 950 | NR |
| 485 | 12831 | NR | 615 | 36113 | NR | 745 | 3858 | NR | 875 | 769 | NR | | | |

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Peachtree City, GA 30269

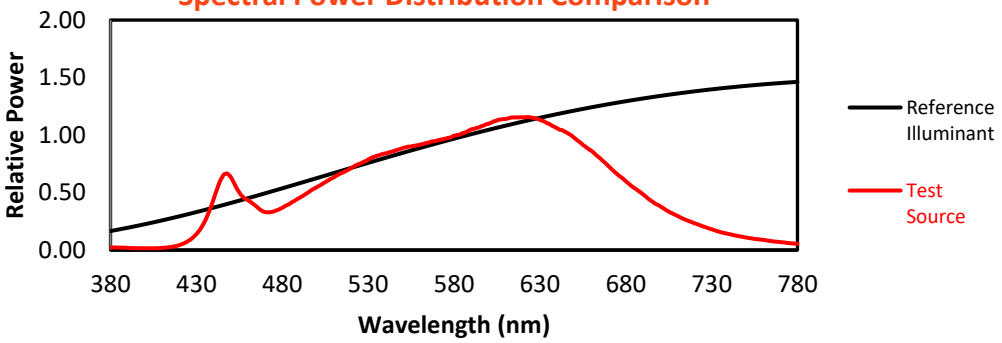
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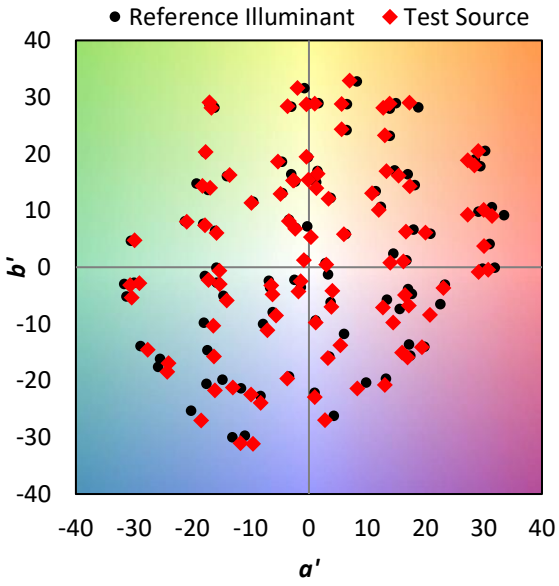
## Summary

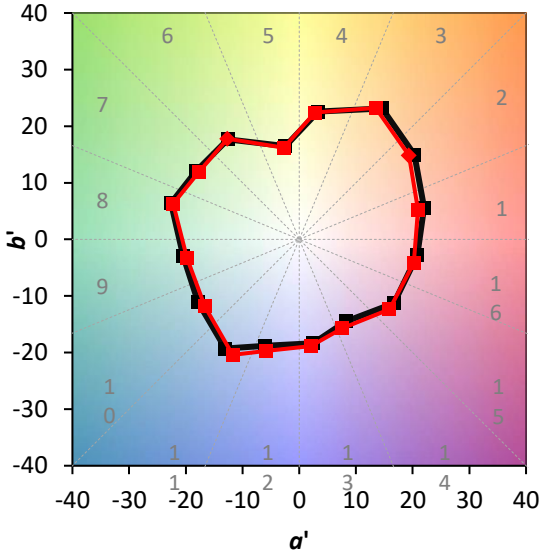
$R_f$ = 92.6
$R_g$ = 98.3
CIE $R_a$ = 92.0
$R_9$ = 59.7

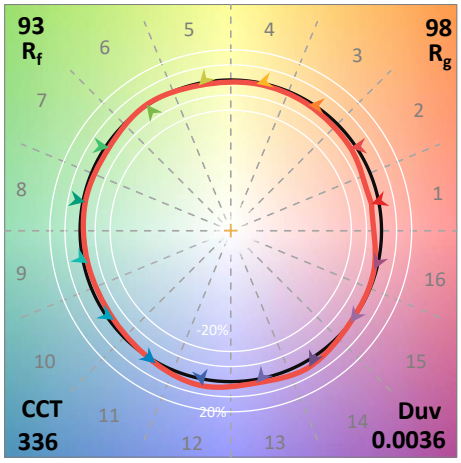
## Spectral Power Distribution Comparison

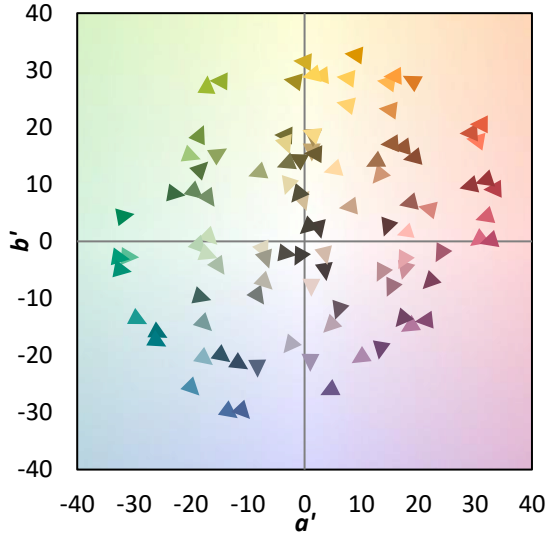



## Color Vector Graphics



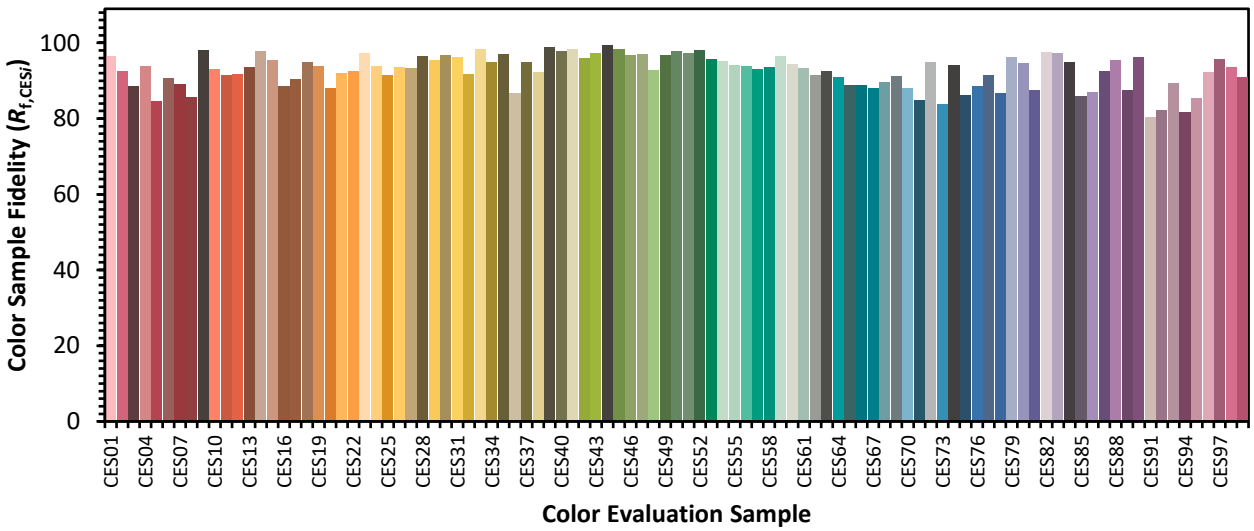
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 88 |
| CES02 = 62 | CES27 = 93 | CES52 = 98 | CES77 = 91 |
| CES03 = 31 | CES28 = 96 | CES53 = 96 | CES78 = 87 |
| CES04 = 70 | CES29 = 96 | CES54 = 95 | CES79 = 96 |
| CES05 = 50 | CES30 = 97 | CES55 = 94 | CES80 = 95 |
| CES06 = 51 | CES31 = 96 | CES56 = 94 | CES81 = 88 |
| CES07 = 42 | CES32 = 92 | CES57 = 93 | CES82 = 98 |
| CES08 = 41 | CES33 = 98 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 95 | CES59 = 96 | CES84 = 95 |
| CES10 = 75 | CES35 = 97 | CES60 = 94 | CES85 = 86 |
| CES11 = 58 | CES36 = 87 | CES61 = 93 | CES86 = 87 |
| CES12 = 64 | CES37 = 95 | CES62 = 91 | CES87 = 92 |
| CES13 = 43 | CES38 = 92 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 91 | CES89 = 87 |
| CES15 = 71 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 89 | CES91 = 80 |
| CES17 = 49 | CES42 = 96 | CES67 = 88 | CES92 = 82 |
| CES18 = 56 | CES43 = 97 | CES68 = 90 | CES93 = 89 |
| CES19 = 71 | CES44 = 99 | CES69 = 91 | CES94 = 82 |
| CES20 = 66 | CES45 = 98 | CES70 = 88 | CES95 = 85 |
| CES21 = 86 | CES46 = 97 | CES71 = 85 | CES96 = 92 |
| CES22 = 78 | CES47 = 97 | CES72 = 95 | CES97 = 96 |
| CES23 = 91 | CES48 = 93 | CES73 = 84 | CES98 = 94 |
| CES24 = 90 | CES49 = 97 | CES74 = 94 | CES99 = 91 |
| CES25 = 71 | CES50 = 98 | CES75 = 86 | |

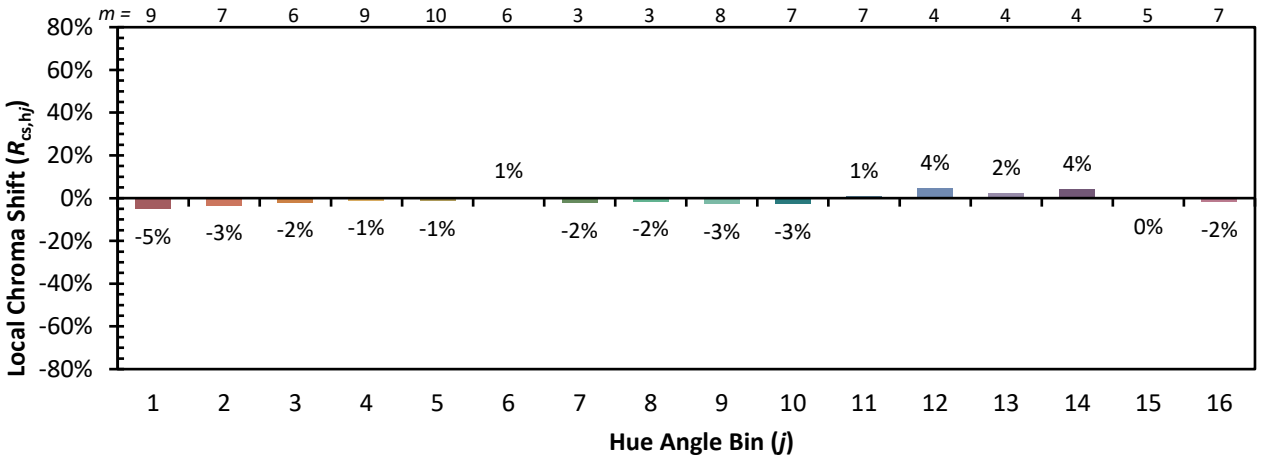


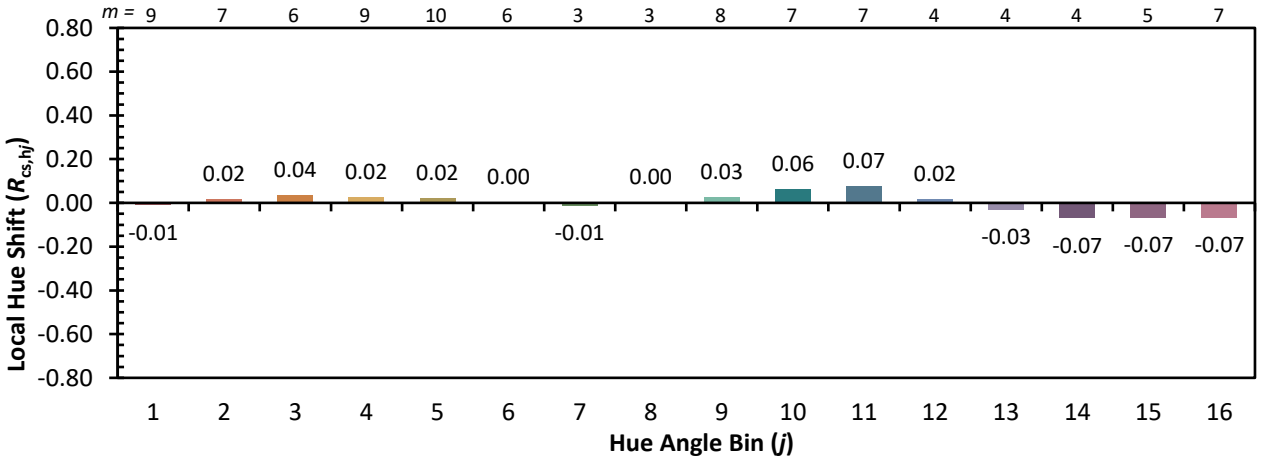
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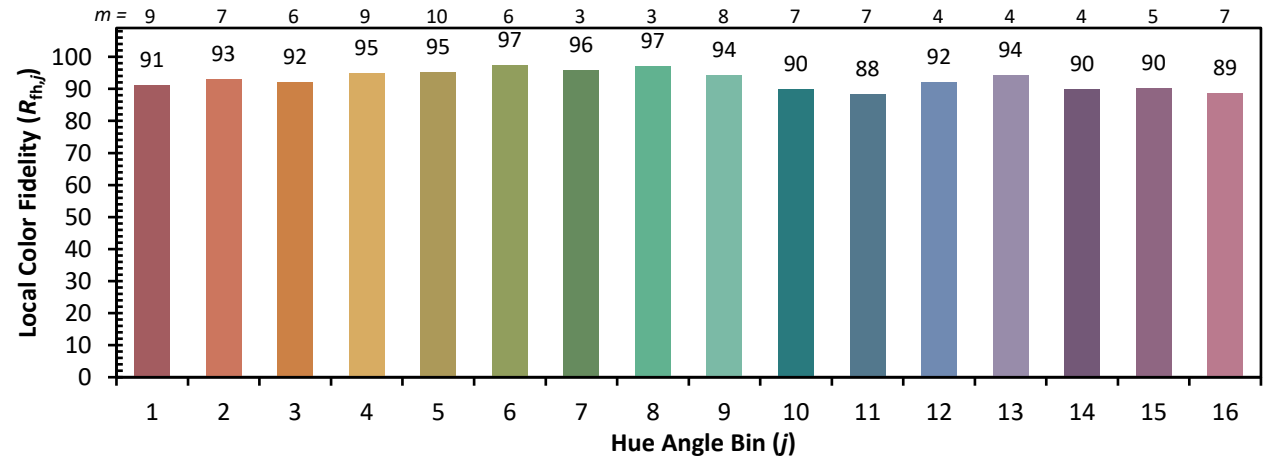
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### Color Rendition by Hue-Angle Bin



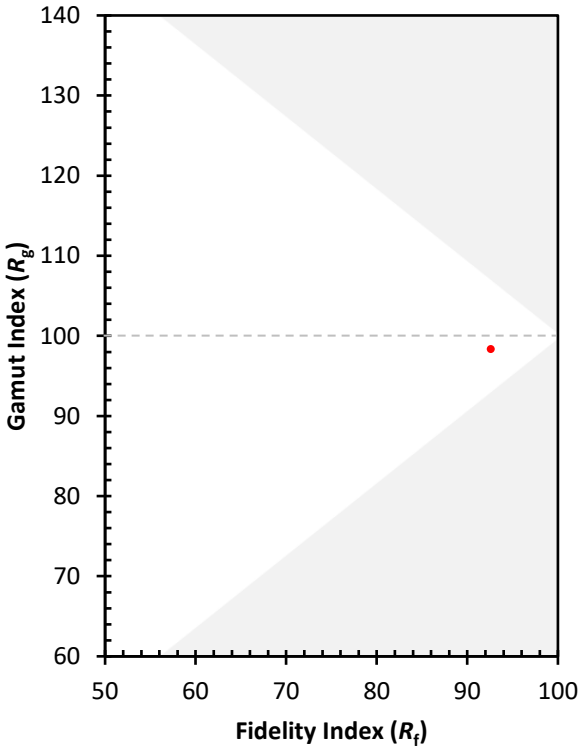



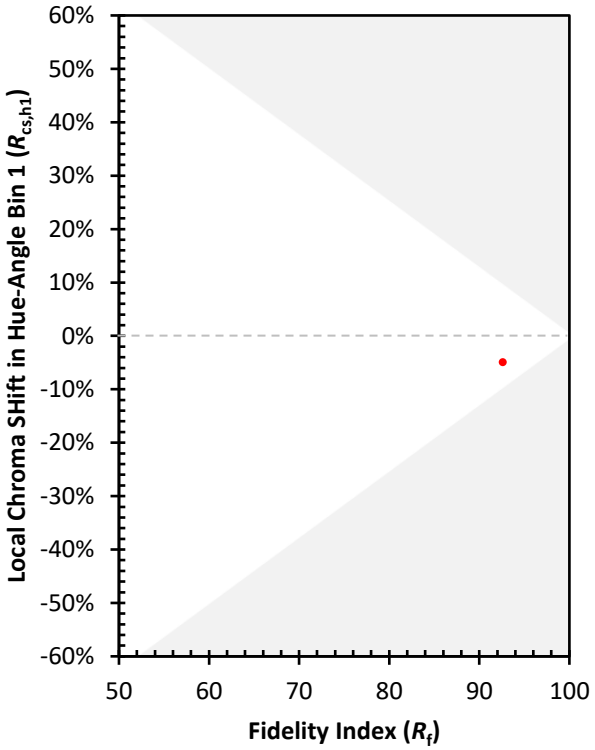
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### Measure Comparisons




(END OF REPORT)