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: P1502074

Luminaire Tested: GSS-SB2B-940-U-T2LG-HSS

Issue Date: 07/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1502074 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2B-940-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 90CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (52) 4000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6158.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 83.2 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B1 - U0 - G1 |

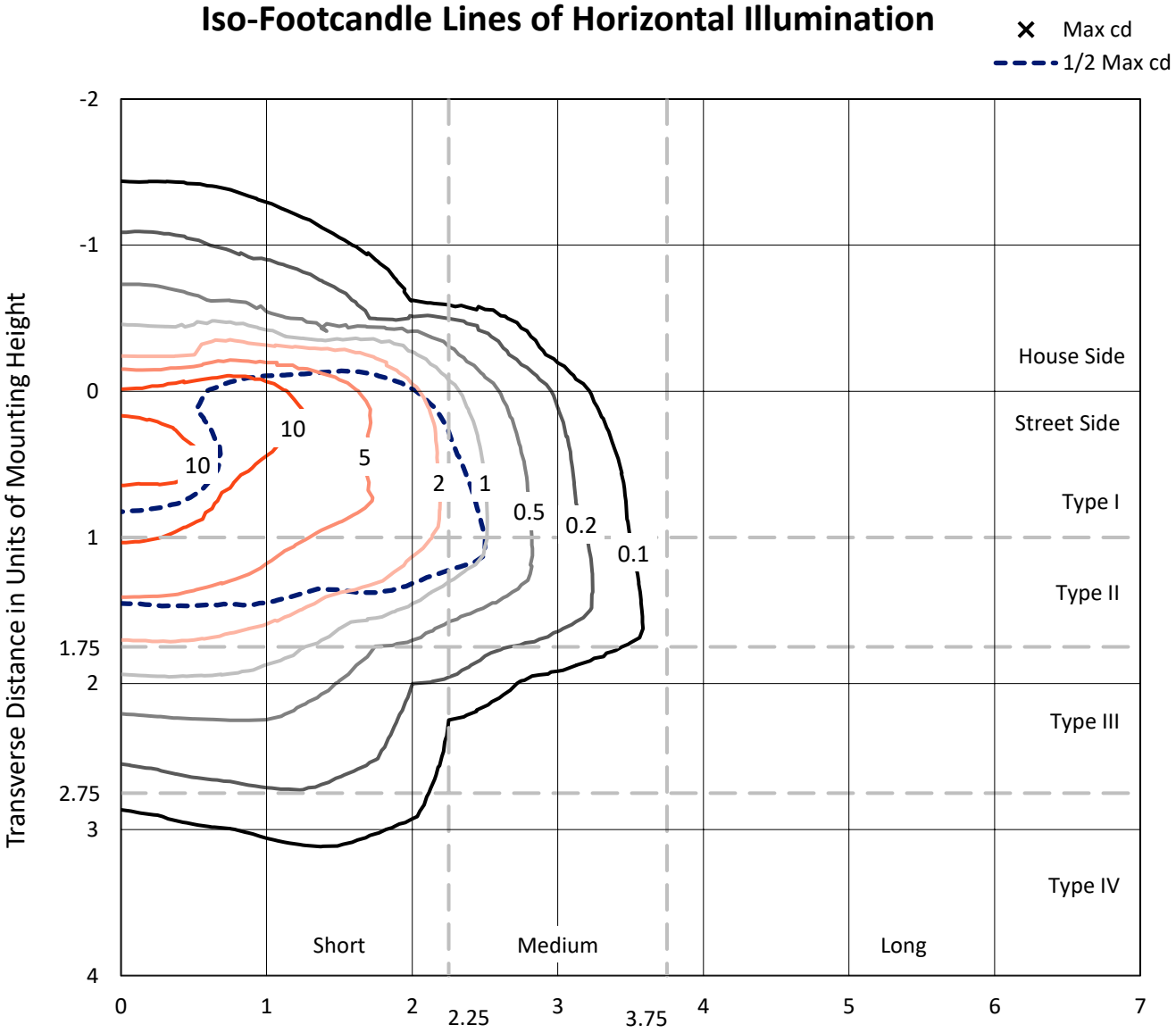
| | |
|---|---|
| Input Watts (W): | 74 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



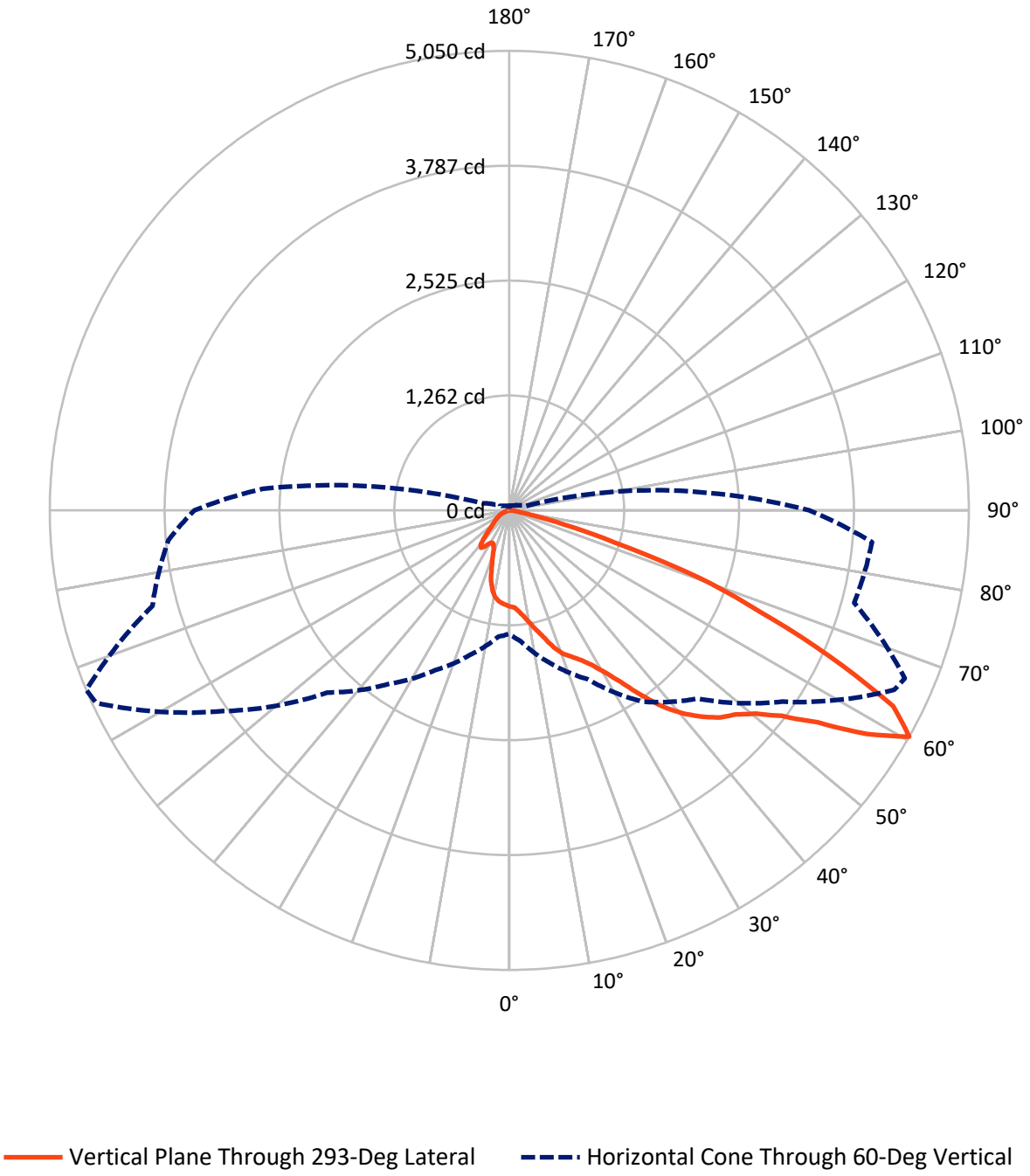

Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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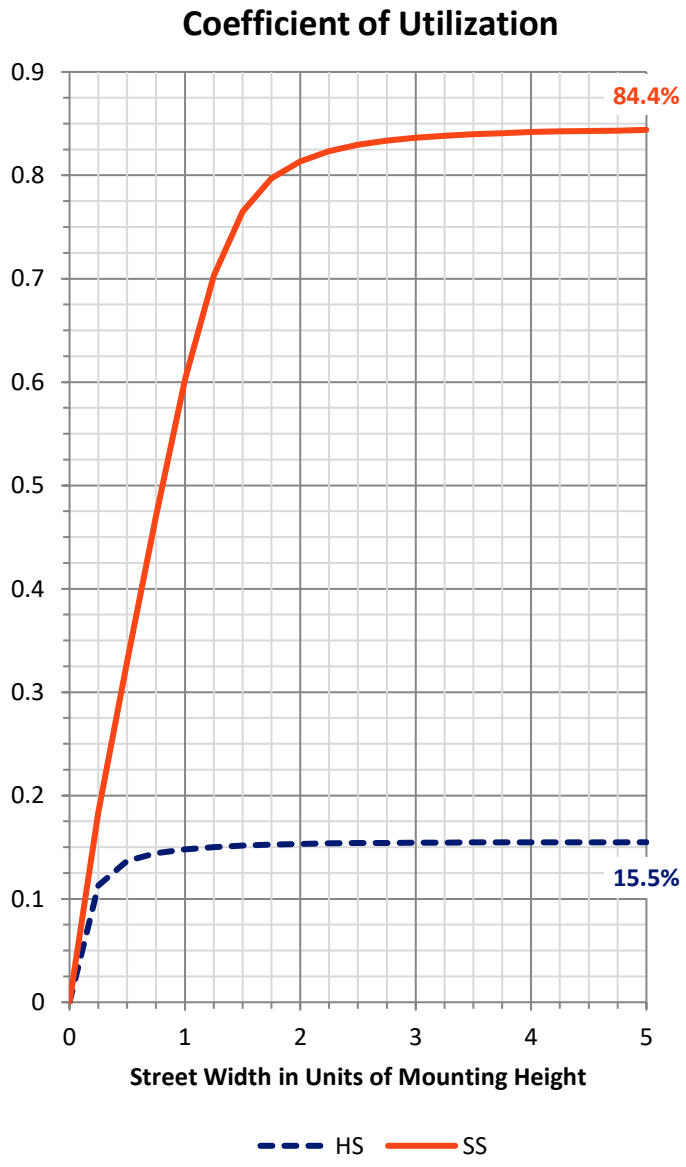
REPORT NUMBER: P1502074
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 960.8 | 0.0 | 960.8 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 5197.4 | 0.0 | 5197.4 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 6158.2 | 0.0 | 6158.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 95.6 | 1.6 |
| 10°-20° | 240.7 | 3.9 |
| 20°-30° | 449.3 | 7.3 |
| 30°-40° | 891.1 | 14.5 |
| 40°-50° | 1420.7 | 23.1 |
| 50°-60° | 1697.4 | 27.6 |
| 60°-70° | 1112.7 | 18.1 |
| 70°-80° | 233.1 | 3.8 |
| 80°-90° | 17.6 | 0.3 |
| 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° | 6158.2 | 100.0 |
| 0°-180° | 6158.2 | 100.0 |



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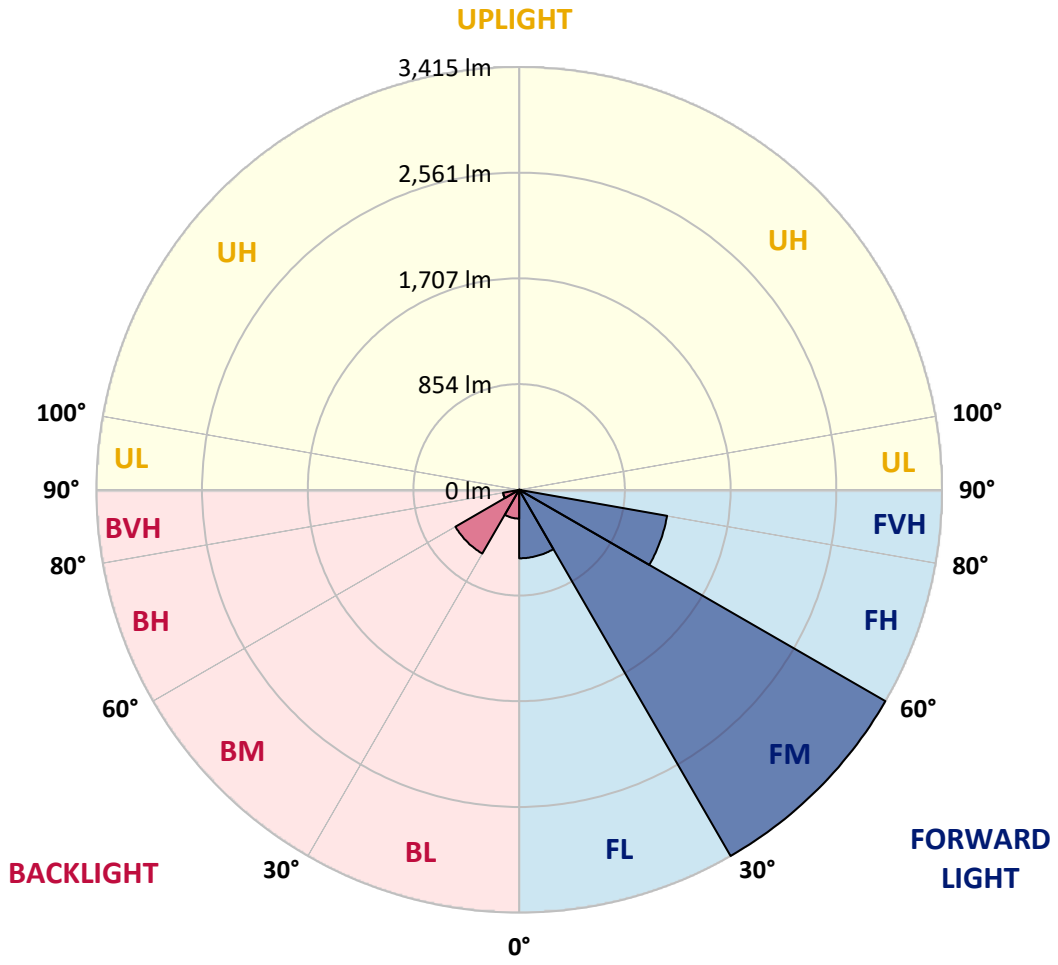
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 553.1 | 9.0 | | | |
| FM | (30°-60°) | 3415.0 | 55.5 | | | |
| FH | (60°-80°) | 1213.1 | 19.7 | | | G1/1800 |
| FVH | (80°-90°) | 16.2 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 232.5 | 3.8 | B1/500 | | |
| BM | (30°-60°) | 594.2 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 132.7 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 |
| 2.5° | 1108.9 | 1105.5 | 1100.3 | 1102.0 | 1100.3 | 1093.4 | 1083.1 | 1074.4 | 1081.3 | 1071.0 | 1064.1 |
| 5° | 1141.7 | 1141.7 | 1138.2 | 1138.2 | 1140.0 | 1136.5 | 1129.6 | 1117.5 | 1119.3 | 1110.6 | 1088.2 |
| 7.5° | 1141.7 | 1136.5 | 1145.1 | 1153.8 | 1169.3 | 1177.9 | 1181.4 | 1174.5 | 1177.9 | 1160.7 | 1131.3 |
| 10° | 1074.4 | 1071.0 | 1093.4 | 1126.2 | 1171.0 | 1210.7 | 1236.5 | 1238.3 | 1243.4 | 1226.2 | 1191.7 |
| 12.5° | 931.3 | 924.4 | 969.2 | 1031.3 | 1122.7 | 1214.1 | 1286.6 | 1314.2 | 1326.2 | 1319.3 | 1271.0 |
| 15° | 798.5 | 807.1 | 838.2 | 905.4 | 1027.9 | 1167.6 | 1314.2 | 1405.6 | 1422.8 | 1431.4 | 1374.5 |
| 17.5° | 784.7 | 786.4 | 796.8 | 829.5 | 922.7 | 1091.7 | 1317.6 | 1500.4 | 1524.6 | 1562.5 | 1484.9 |
| 20° | 822.6 | 819.2 | 829.5 | 839.9 | 884.7 | 1024.4 | 1284.8 | 1591.8 | 1638.4 | 1719.4 | 1634.9 |
| 22.5° | 893.3 | 893.3 | 898.5 | 905.4 | 927.8 | 1019.2 | 1271.0 | 1676.3 | 1755.7 | 1921.2 | 1822.9 |
| 25° | 1012.3 | 998.5 | 1002.0 | 993.4 | 1012.3 | 1081.3 | 1302.1 | 1743.6 | 1852.2 | 2145.4 | 2047.1 |
| 27.5° | 1196.9 | 1202.1 | 1171.0 | 1124.4 | 1134.8 | 1193.4 | 1378.0 | 1819.5 | 1952.3 | 2378.2 | 2274.8 |
| 30° | 1452.1 | 1443.5 | 1424.5 | 1333.1 | 1291.7 | 1343.5 | 1517.7 | 1943.6 | 2086.8 | 2673.1 | 2578.3 |
| 32.5° | 1652.2 | 1676.3 | 1643.6 | 1579.7 | 1515.9 | 1531.5 | 1714.3 | 2143.7 | 2250.6 | 2943.9 | 2892.2 |
| 35° | 1893.6 | 1893.6 | 1900.5 | 1810.8 | 1767.7 | 1764.3 | 1960.9 | 2361.0 | 2467.9 | 3188.8 | 3225.0 |
| 37.5° | 2219.6 | 2197.2 | 2159.2 | 2059.2 | 2026.4 | 2069.5 | 2192.0 | 2585.2 | 2700.7 | 3387.1 | 3483.7 |
| 40° | 2493.8 | 2509.3 | 2504.1 | 2359.3 | 2295.5 | 2342.0 | 2450.7 | 2776.6 | 2866.3 | 3514.8 | 3692.4 |
| 42.5° | 2762.8 | 2771.5 | 2749.0 | 2680.0 | 2586.9 | 2590.4 | 2680.0 | 2921.5 | 3012.9 | 3637.2 | 3889.0 |
| 45° | 2964.6 | 2962.9 | 2947.4 | 2930.1 | 2874.9 | 2818.0 | 2833.5 | 3081.9 | 3161.2 | 3676.9 | 3995.9 |
| 47.5° | 3028.4 | 3042.2 | 3056.0 | 3104.3 | 3142.2 | 3052.6 | 2973.2 | 3168.1 | 3240.5 | 3670.0 | 4035.6 |
| 50° | 2969.8 | 2999.1 | 3066.4 | 3138.8 | 3268.1 | 3261.2 | 3090.5 | 3261.2 | 3331.9 | 3707.9 | 4082.2 |
| 52.5° | 2838.7 | 2868.0 | 2957.7 | 3088.8 | 3283.7 | 3380.2 | 3307.8 | 3418.2 | 3501.0 | 3804.5 | 4178.7 |
| 55° | 2533.5 | 2545.5 | 2730.1 | 2902.5 | 3206.1 | 3328.5 | 3540.6 | 3683.8 | 3752.8 | 3921.8 | 4306.4 |
| 57.5° | 2062.6 | 2092.0 | 2273.0 | 2554.1 | 2988.8 | 3192.3 | 3673.4 | 4137.3 | 4135.6 | 4033.9 | 4333.9 |
| 60° | *1357.3* | *1443.5* | *1738.4* | *2048.8* | *2567.9* | *2924.9* | *3664.8* | *4668.5* | *4722.0* | *3923.5* | *4001.1* |
| 62.5° | 1036.5 | 1072.7 | 1240.0 | 1498.7 | 1900.5 | 2424.8 | 3607.9 | 4827.2 | 4868.6 | 3626.9 | 3502.7 |
| 65° | 779.5 | 824.4 | 984.8 | 1215.9 | 1341.7 | 1643.6 | 3235.4 | 4196.0 | 4252.9 | 3237.1 | 2723.2 |
| 67.5° | 477.7 | 513.9 | 727.8 | 998.5 | 1015.8 | 1021.0 | 2183.4 | 3178.5 | 3199.2 | 2611.1 | 1833.3 |
| 70° | 319.1 | 355.3 | 503.6 | 767.5 | 808.8 | 588.1 | 1198.6 | 2405.8 | 2404.1 | 1786.7 | 1114.1 |
| 72.5° | 184.5 | 201.8 | 319.1 | 565.7 | 636.4 | 374.2 | 598.4 | 1529.7 | 1462.5 | 839.9 | 520.8 |
| 75° | 105.2 | 117.3 | 175.9 | 363.9 | 446.7 | 238.0 | 236.3 | 819.2 | 724.3 | 432.9 | 284.6 |
| 77.5° | 63.8 | 69.0 | 96.6 | 238.0 | 269.0 | 160.4 | 131.1 | 381.1 | 367.3 | 253.5 | 150.0 |
| 80° | 31.0 | 36.2 | 58.6 | 139.7 | 172.5 | 86.2 | 79.3 | 150.0 | 160.4 | 139.7 | 79.3 |
| 82.5° | 10.3 | 13.8 | 32.8 | 53.5 | 112.1 | 34.5 | 32.8 | 82.8 | 88.0 | 82.8 | 37.9 |
| 85° | 5.2 | 6.9 | 15.5 | 17.2 | 43.1 | 17.2 | 12.1 | 36.2 | 44.8 | 27.6 | 15.5 |
| 87.5° | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.4 | 3.4 | 3.4 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 |
| 2.5° | 1058.9 | 1055.5 | 1048.6 | 1036.5 | 1034.8 | 1026.1 | 1012.3 | 1003.7 | 996.8 | 1002.0 | 1003.7 |
| 5° | 1077.9 | 1069.3 | 1048.6 | 1015.8 | 981.3 | 946.8 | 914.0 | 876.1 | 850.2 | 846.8 | 839.9 |
| 7.5° | 1112.4 | 1095.1 | 1050.3 | 986.5 | 898.5 | 815.7 | 719.2 | 626.0 | 579.5 | 572.6 | 557.0 |
| 10° | 1167.6 | 1138.2 | 1064.1 | 934.7 | 765.7 | 593.3 | 446.7 | 346.6 | 289.7 | 279.4 | 282.8 |
| 12.5° | 1233.1 | 1191.7 | 1065.8 | 846.8 | 582.9 | 367.3 | 253.5 | 215.6 | 203.5 | 198.3 | 198.3 |
| 15° | 1317.6 | 1257.2 | 1064.1 | 733.0 | 393.2 | 236.3 | 203.5 | 188.0 | 182.8 | 179.4 | 179.4 |
| 17.5° | 1424.5 | 1345.2 | 1052.0 | 562.2 | 265.6 | 205.2 | 186.3 | 174.2 | 167.3 | 165.6 | 165.6 |
| 20° | 1550.4 | 1443.5 | 1024.4 | 419.1 | 222.5 | 191.4 | 175.9 | 160.4 | 155.2 | 151.8 | 151.8 |
| 22.5° | 1710.8 | 1562.5 | 971.0 | 326.0 | 210.4 | 182.8 | 165.6 | 148.3 | 143.1 | 139.7 | 139.7 |
| 25° | 1897.1 | 1714.3 | 900.2 | 293.2 | 208.7 | 175.9 | 155.2 | 138.0 | 132.8 | 131.1 | 129.3 |
| 27.5° | 2117.8 | 1876.4 | 834.7 | 294.9 | 212.1 | 170.7 | 144.9 | 129.3 | 124.2 | 119.0 | 120.7 |
| 30° | 2378.2 | 2043.7 | 781.2 | 315.6 | 215.6 | 165.6 | 138.0 | 124.2 | 119.0 | 112.1 | 112.1 |
| 32.5° | 2635.2 | 2240.3 | 776.1 | 353.5 | 227.6 | 162.1 | 131.1 | 117.3 | 112.1 | 106.9 | 106.9 |
| 35° | 2899.1 | 2419.6 | 805.4 | 403.6 | 251.8 | 156.9 | 122.4 | 110.4 | 105.2 | 101.8 | 100.0 |
| 37.5° | 3150.9 | 2562.8 | 833.0 | 434.6 | 238.0 | 134.5 | 112.1 | 101.8 | 96.6 | 89.7 | 89.7 |
| 40° | 3318.2 | 2640.4 | 838.2 | 410.5 | 196.6 | 120.7 | 101.8 | 91.4 | 84.5 | 81.1 | 79.3 |
| 42.5° | 3440.6 | 2690.4 | 779.5 | 332.8 | 170.7 | 110.4 | 93.1 | 82.8 | 77.6 | 74.2 | 74.2 |
| 45° | 3490.6 | 2673.1 | 679.5 | 253.5 | 156.9 | 101.8 | 84.5 | 75.9 | 72.4 | 69.0 | 69.0 |
| 47.5° | 3483.7 | 2593.8 | 577.7 | 203.5 | 143.1 | 93.1 | 79.3 | 72.4 | 69.0 | 65.5 | 63.8 |
| 50° | 3471.6 | 2519.7 | 474.3 | 181.1 | 127.6 | 88.0 | 74.2 | 69.0 | 63.8 | 60.4 | 58.6 |
| 52.5° | 3551.0 | 2495.5 | 393.2 | 165.6 | 119.0 | 84.5 | 72.4 | 65.5 | 60.4 | 56.9 | 56.9 |
| 55° | 3630.3 | 2505.9 | 308.7 | 155.2 | 110.4 | 82.8 | 70.7 | 63.8 | 58.6 | 53.5 | 53.5 |
| 57.5° | 3625.1 | 2461.0 | 234.5 | 144.9 | 103.5 | 81.1 | 69.0 | 62.1 | 53.5 | 50.0 | 50.0 |
| 60° | *3295.7* | *2195.4* | *182.8* | *132.8* | *94.9* | *75.9* | *63.8* | *58.6* | *50.0* | *44.8* | *44.8* |
| 62.5° | 2787.0 | 1726.3 | 150.0 | 117.3 | 84.5 | 69.0 | 58.6 | 53.5 | 44.8 | 36.2 | 36.2 |
| 65° | 2059.2 | 1245.2 | 120.7 | 101.8 | 77.6 | 60.4 | 53.5 | 46.6 | 36.2 | 29.3 | 27.6 |
| 67.5° | 1393.5 | 765.7 | 96.6 | 84.5 | 69.0 | 51.7 | 44.8 | 39.7 | 32.8 | 24.1 | 22.4 |
| 70° | 826.1 | 407.0 | 70.7 | 58.6 | 51.7 | 37.9 | 37.9 | 34.5 | 27.6 | 20.7 | 19.0 |
| 72.5° | 393.2 | 141.4 | 51.7 | 43.1 | 39.7 | 27.6 | 29.3 | 29.3 | 22.4 | 15.5 | 13.8 |
| 75° | 200.1 | 69.0 | 34.5 | 31.0 | 25.9 | 20.7 | 24.1 | 22.4 | 15.5 | 10.3 | 10.3 |
| 77.5° | 113.8 | 48.3 | 24.1 | 20.7 | 17.2 | 13.8 | 15.5 | 13.8 | 8.6 | 5.2 | 5.2 |
| 80° | 63.8 | 34.5 | 15.5 | 13.8 | 10.3 | 8.6 | 8.6 | 6.9 | 5.2 | 1.7 | 1.7 |
| 82.5° | 24.1 | 20.7 | 10.3 | 6.9 | 5.2 | 5.2 | 3.4 | 3.4 | 1.7 | 0.0 | 0.0 |
| 85° | 10.3 | 5.2 | 5.2 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 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 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 |
| 2.5° | 989.9 | 993.4 | 996.8 | 1010.6 | 1014.1 | 1024.4 | 1033.0 | 1043.4 | 1045.1 | 1058.9 | 1058.9 |
| 5° | 853.7 | 852.0 | 881.3 | 924.4 | 952.0 | 989.9 | 1019.2 | 1050.3 | 1067.5 | 1090.0 | 1100.3 |
| 7.5° | 565.7 | 608.8 | 674.3 | 750.2 | 848.5 | 939.9 | 1008.9 | 1069.3 | 1110.6 | 1136.5 | 1146.9 |
| 10° | 281.1 | 305.3 | 374.2 | 498.4 | 665.7 | 852.0 | 998.5 | 1110.6 | 1177.9 | 1207.2 | 1226.2 |
| 12.5° | 198.3 | 203.5 | 215.6 | 282.8 | 443.2 | 707.1 | 965.8 | 1155.5 | 1248.6 | 1303.8 | 1328.0 |
| 15° | 177.6 | 181.1 | 186.3 | 205.2 | 274.2 | 527.7 | 907.1 | 1205.5 | 1359.0 | 1422.8 | 1453.8 |
| 17.5° | 163.8 | 165.6 | 170.7 | 186.3 | 215.6 | 358.7 | 812.3 | 1259.0 | 1491.8 | 1569.4 | 1628.0 |
| 20° | 151.8 | 151.8 | 156.9 | 175.9 | 200.1 | 275.9 | 676.0 | 1319.3 | 1660.8 | 1772.9 | 1831.5 |
| 22.5° | 138.0 | 141.4 | 144.9 | 165.6 | 194.9 | 251.8 | 548.4 | 1365.9 | 1848.8 | 1985.0 | 2054.0 |
| 25° | 127.6 | 131.1 | 134.5 | 155.2 | 189.7 | 251.8 | 474.3 | 1395.2 | 2059.2 | 2221.3 | 2316.2 |
| 27.5° | 119.0 | 122.4 | 127.6 | 148.3 | 184.5 | 262.1 | 444.9 | 1403.8 | 2288.6 | 2499.0 | 2626.6 |
| 30° | 112.1 | 115.5 | 120.7 | 143.1 | 188.0 | 274.2 | 455.3 | 1391.8 | 2521.4 | 2785.2 | 2937.0 |
| 32.5° | 105.2 | 108.7 | 113.8 | 138.0 | 188.0 | 289.7 | 489.8 | 1367.6 | 2747.3 | 3071.5 | 3257.8 |
| 35° | 100.0 | 101.8 | 103.5 | 124.2 | 170.7 | 288.0 | 532.9 | 1343.5 | 2975.0 | 3354.4 | 3571.7 |
| 37.5° | 89.7 | 91.4 | 94.9 | 106.9 | 136.2 | 262.1 | 541.5 | 1314.2 | 3154.3 | 3592.4 | 3832.1 |
| 40° | 79.3 | 82.8 | 86.2 | 98.3 | 113.8 | 212.1 | 503.6 | 1252.1 | 3249.2 | 3775.2 | 4066.6 |
| 42.5° | 72.4 | 74.2 | 77.6 | 89.7 | 105.2 | 169.0 | 422.5 | 1143.4 | 3333.7 | 3899.3 | 4237.4 |
| 45° | 67.3 | 69.0 | 72.4 | 81.1 | 98.3 | 146.6 | 332.8 | 1010.6 | 3340.6 | 3939.0 | 4320.2 |
| 47.5° | 62.1 | 63.8 | 65.5 | 74.2 | 94.9 | 131.1 | 255.2 | 889.9 | 3338.8 | 3990.8 | 4390.9 |
| 50° | 58.6 | 60.4 | 63.8 | 70.7 | 89.7 | 117.3 | 210.4 | 791.6 | 3411.3 | 4102.9 | 4534.0 |
| 52.5° | 56.9 | 56.9 | 62.1 | 69.0 | 84.5 | 106.9 | 175.9 | 703.6 | 3449.2 | 4213.2 | 4637.5 |
| 55° | 53.5 | 55.2 | 58.6 | 65.5 | 79.3 | 101.8 | 150.0 | 593.3 | 3466.5 | 4268.4 | 4656.5 |
| 57.5° | 50.0 | 51.7 | 56.9 | 62.1 | 75.9 | 96.6 | 129.3 | 443.2 | 3219.8 | 3980.4 | 4339.1 |
| 60° | *44.8* | *48.3* | *55.2* | *60.4* | *70.7* | *88.0* | *113.8* | *300.1* | *2716.3* | *3459.6* | *3759.7* |
| 62.5° | 36.2 | 43.1 | 50.0 | 53.5 | 63.8 | 74.2 | 96.6 | 200.1 | 2169.6 | 2862.9 | 3204.3 |
| 65° | 27.6 | 36.2 | 41.4 | 46.6 | 53.5 | 62.1 | 81.1 | 136.2 | 1446.9 | 1926.4 | 2311.0 |
| 67.5° | 24.1 | 31.0 | 34.5 | 37.9 | 44.8 | 53.5 | 65.5 | 94.9 | 877.8 | 1157.2 | 1536.6 |
| 70° | 19.0 | 25.9 | 29.3 | 27.6 | 34.5 | 41.4 | 46.6 | 63.8 | 448.4 | 627.8 | 874.4 |
| 72.5° | 13.8 | 20.7 | 22.4 | 22.4 | 20.7 | 29.3 | 34.5 | 44.8 | 194.9 | 305.3 | 396.7 |
| 75° | 10.3 | 13.8 | 15.5 | 13.8 | 12.1 | 19.0 | 24.1 | 29.3 | 127.6 | 182.8 | 231.1 |
| 77.5° | 5.2 | 5.2 | 8.6 | 8.6 | 5.2 | 10.3 | 12.1 | 17.2 | 72.4 | 106.9 | 132.8 |
| 80° | 1.7 | 0.0 | 0.0 | 1.7 | 0.0 | 3.4 | 5.2 | 8.6 | 37.9 | 56.9 | 82.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 19.0 | 17.2 | 43.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 10.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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: P1502074
CATALOG NUMBER: GSS-SB2B-940-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1055.5 | *1055.5* | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 | 1055.5 |
| 2.5° | 1067.5 | *1067.5* | 1074.4 | 1084.8 | 1090.0 | 1093.4 | 1095.1 | 1098.6 | 1112.4 | 1108.9 |
| 5° | 1112.4 | *1115.8* | 1121.0 | 1131.3 | 1143.4 | 1140.0 | 1140.0 | 1140.0 | 1148.6 | 1141.7 |
| 7.5° | 1171.0 | *1181.4* | 1183.1 | 1195.2 | 1186.5 | 1169.3 | 1158.9 | 1143.4 | 1141.7 | 1141.7 |
| 10° | 1265.9 | *1262.4* | 1262.4 | 1246.9 | 1215.9 | 1165.8 | 1121.0 | 1090.0 | 1072.7 | 1074.4 |
| 12.5° | 1367.6 | *1353.8* | 1355.5 | 1298.6 | 1210.7 | 1100.3 | 1008.9 | 941.6 | 936.5 | 931.3 |
| 15° | 1493.5 | *1457.3* | 1450.4 | 1319.3 | 1133.1 | 964.1 | 874.4 | 820.9 | 803.7 | 798.5 |
| 17.5° | 1672.9 | *1581.5* | 1548.7 | 1283.1 | 1031.3 | 879.6 | 812.3 | 788.1 | 786.4 | 784.7 |
| 20° | 1862.6 | *1681.5* | 1619.4 | 1229.6 | 996.8 | 881.3 | 831.3 | 824.4 | 820.9 | 822.6 |
| 22.5° | 2083.3 | *1745.3* | 1666.0 | 1238.3 | 1027.9 | 938.2 | 898.5 | 893.3 | 889.9 | 893.3 |
| 25° | 2311.0 | *1819.5* | 1721.2 | 1307.3 | 1121.0 | 1043.4 | 996.8 | 986.5 | 996.8 | 1012.3 |
| 27.5° | 2540.4 | *1919.5* | 1829.8 | 1443.5 | 1271.0 | 1186.5 | 1141.7 | 1179.6 | 1195.2 | 1196.9 |
| 30° | 2743.9 | *2059.2* | 1976.4 | 1634.9 | 1441.8 | 1357.3 | 1365.9 | 1414.2 | 1433.2 | 1452.1 |
| 32.5° | 2930.1 | *2245.4* | 2181.6 | 1852.2 | 1662.5 | 1612.5 | 1607.3 | 1643.6 | 1664.2 | 1652.2 |
| 35° | 3118.1 | *2488.6* | 2426.5 | 2088.5 | 1933.3 | 1891.9 | 1848.8 | 1919.5 | 1912.6 | 1893.6 |
| 37.5° | 3295.7 | *2733.5* | 2676.6 | 2342.0 | 2181.6 | 2109.2 | 2102.3 | 2166.1 | 2223.0 | 2219.6 |
| 40° | 3423.4 | *2931.8* | 2862.9 | 2593.8 | 2442.0 | 2380.0 | 2416.2 | 2526.6 | 2512.8 | 2493.8 |
| 42.5° | 3540.6 | *3100.9* | 3038.8 | 2814.6 | 2655.9 | 2683.5 | 2716.3 | 2790.4 | 2781.8 | 2762.8 |
| 45° | 3595.8 | *3245.7* | 3192.3 | 2981.9 | 2904.2 | 2992.2 | 2990.5 | 3018.1 | 2971.5 | 2964.6 |
| 47.5° | 3673.4 | *3349.2* | 3294.0 | 3131.9 | 3200.9 | 3237.1 | 3135.3 | 3106.0 | 3062.9 | 3028.4 |
| 50° | 3816.6 | *3509.6* | 3454.4 | 3359.5 | 3418.2 | 3306.1 | 3181.9 | 3118.1 | 3030.1 | 2969.8 |
| 52.5° | 3983.9 | *3752.8* | 3704.5 | 3666.5 | 3502.7 | 3271.6 | 3112.9 | 2997.4 | 2890.4 | 2838.7 |
| 55° | 4194.3 | *4111.5* | 4077.0 | 3868.3 | 3426.8 | 3130.2 | 2943.9 | 2728.3 | 2581.7 | 2533.5 |
| 57.5° | 4263.2 | *4637.5* | 4625.4 | 3901.1 | 3214.7 | 2873.2 | 2536.9 | 2245.4 | 2093.7 | 2062.6 |
| 60° | *4059.7* | *5049.7* | *5006.5* | *3845.9* | *2830.1* | *2331.7* | *1938.5* | *1640.1* | *1393.5* | *1357.3* |
| 62.5° | 3799.3 | *4734.1* | 4718.5 | 3568.2 | 2155.8 | 1671.1 | 1448.7 | 1169.3 | 1064.1 | 1036.5 |
| 65° | 3254.3 | *3873.5* | 3880.4 | 2862.9 | 1364.2 | 1200.3 | 1190.0 | 929.6 | 800.2 | 779.5 |
| 67.5° | 2505.9 | *2971.5* | 2923.2 | 1800.5 | 795.0 | 960.6 | 950.3 | 679.5 | 491.5 | 477.7 |
| 70° | 1464.2 | *2212.7* | 2135.1 | 936.5 | 526.0 | 801.9 | 731.2 | 477.7 | 334.6 | 319.1 |
| 72.5° | 646.7 | *1217.6* | 1307.3 | 412.2 | 370.8 | 638.1 | 527.7 | 293.2 | 188.0 | 184.5 |
| 75° | 358.7 | *603.6* | 631.2 | 179.4 | 260.4 | 453.6 | 319.1 | 163.8 | 106.9 | 105.2 |
| 77.5° | 215.6 | *267.3* | 260.4 | 115.5 | 194.9 | 289.7 | 193.2 | 93.1 | 67.3 | 63.8 |
| 80° | 120.7 | *122.4* | 103.5 | 84.5 | 115.5 | 162.1 | 108.7 | 58.6 | 31.0 | 31.0 |
| 82.5° | 74.2 | *67.3* | 53.5 | 25.9 | 31.0 | 98.3 | 39.7 | 32.8 | 10.3 | 10.3 |
| 85° | 31.0 | *20.7* | 13.8 | 5.2 | 12.1 | 25.9 | 13.8 | 15.5 | 5.2 | 5.2 |
| 87.5° | 0.0 | *0.0* | 0.0 | 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 |

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: SP1-2106-271-4

Luminaire Tested: GFLD-SA1-A-940-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

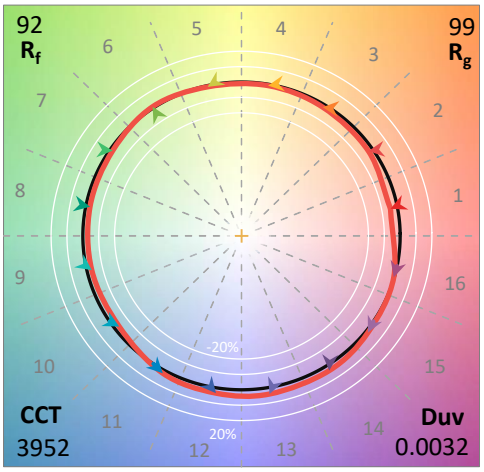
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-940-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3952 | CRI (Ra): | 92.2 | | |
| CIE u': | 0.2242 | R1: | 92.0 | R9: | 63.3 |
| CIE v': | 0.5064 | R2: | 93.7 | R10: | 84.3 |
| Duv: | 0.0032 | R3: | 94.4 | R11: | 92.7 |
| CIE x: | 0.3848 | R4: | 93.1 | R12: | 75.6 |
| CIE y: | 0.3864 | R5: | 91.2 | R13: | 92.2 |
| CIE z: | 0.2287 | R6: | 91.1 | R14: | 96.5 |
| Peak Wavelength (nm): | 614 | R7: | 95.4 | | |
| Dominant Wavelength (nm): | 577 | R8: | 86.5 | | |
| Purity: | 31.6 | | | | |

| | |
|---|---|
| Rf: | 92.2 |
| Rg: | 98.9 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 72M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.8/42% |
| Sphere Temperature (°C): | 24.9 |

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

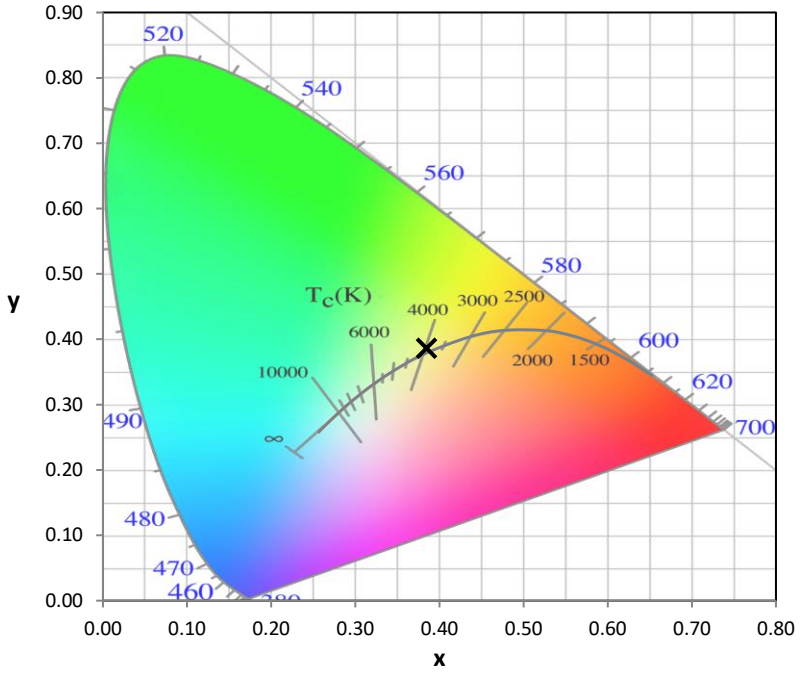
REPORT NUMBER: SP1-2106-271-4

| 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 |

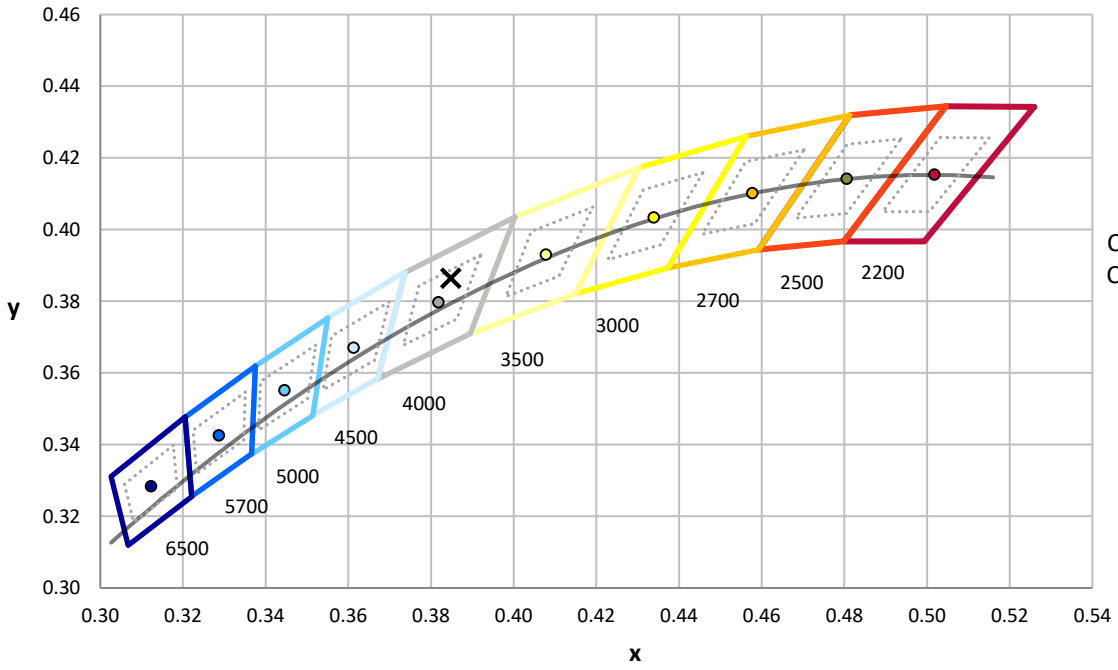
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-4

## CIE 1931 Chromaticity Diagram




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



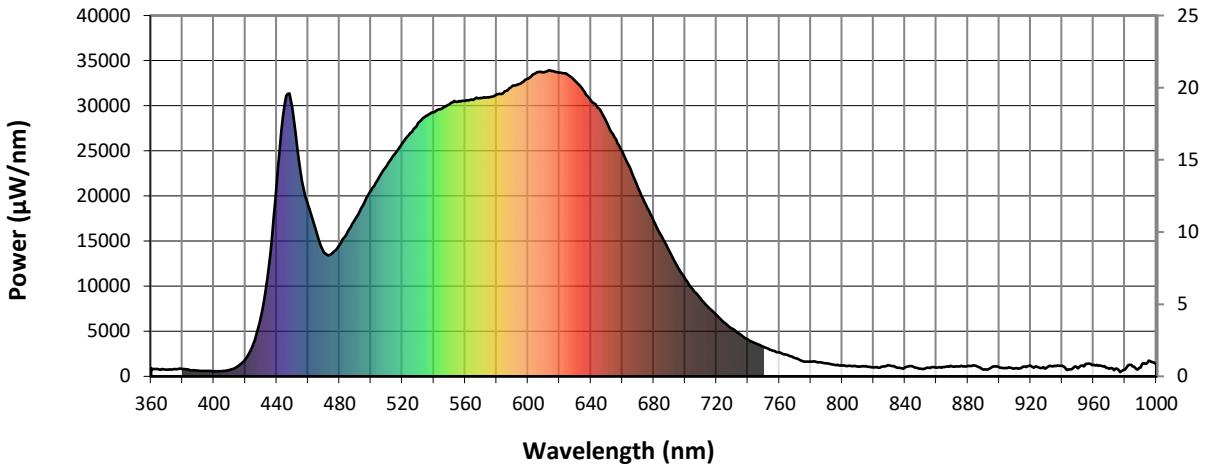

CCT = 3952K
CIE x = 0.3848
CIE y = 0.3864
Duv = 0.0032

Point lies inside the ANSI 4000K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-4

## Photopic Flux vs. Wavelength



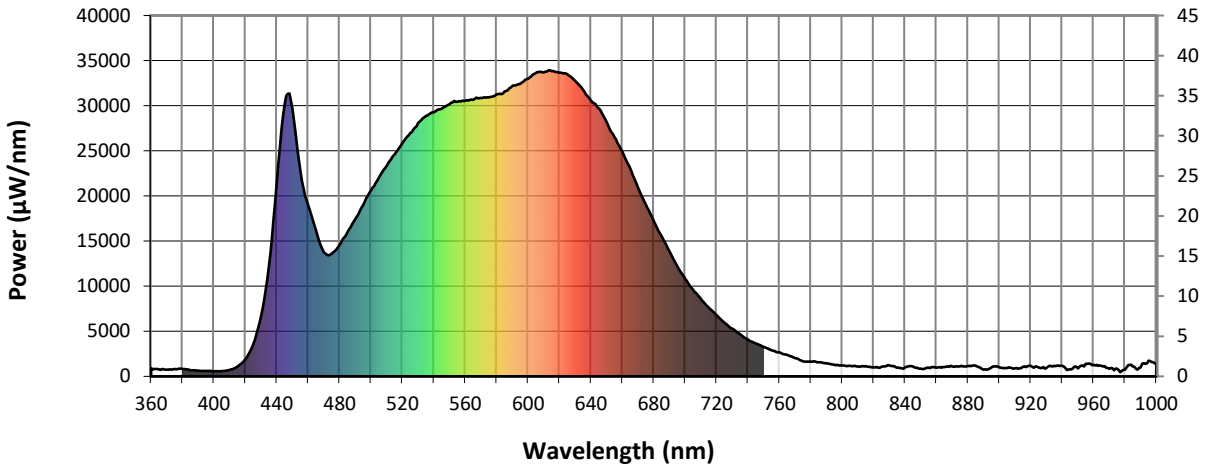

######

| 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 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Scotopic Flux vs. Wavelength



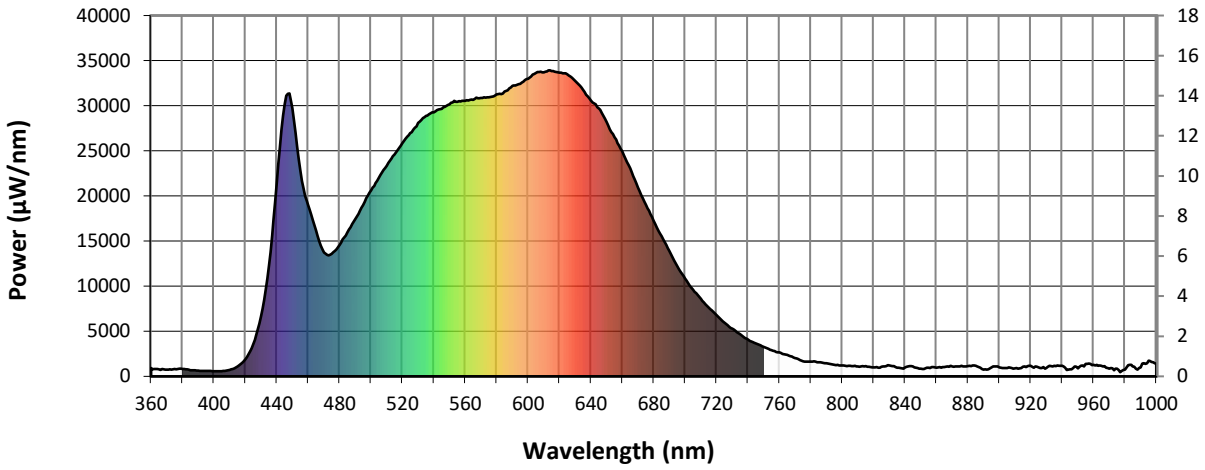

**Scotopic Lumens: 3705.7** **S/P: 1.75**

| 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 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1498.3** **S/P: 0.71**

| 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 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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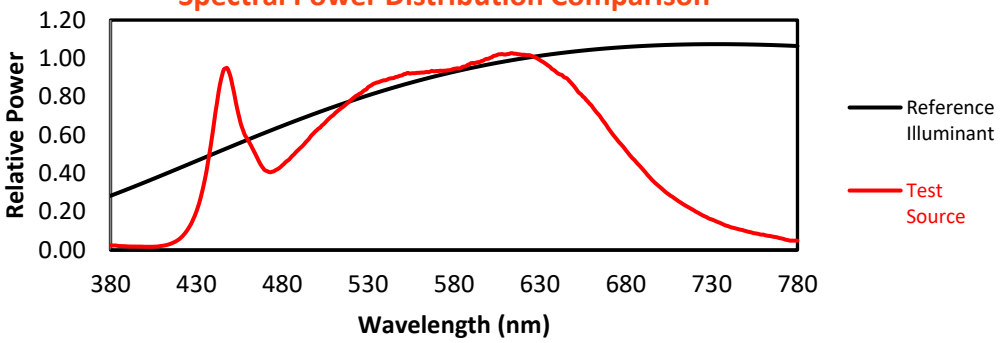
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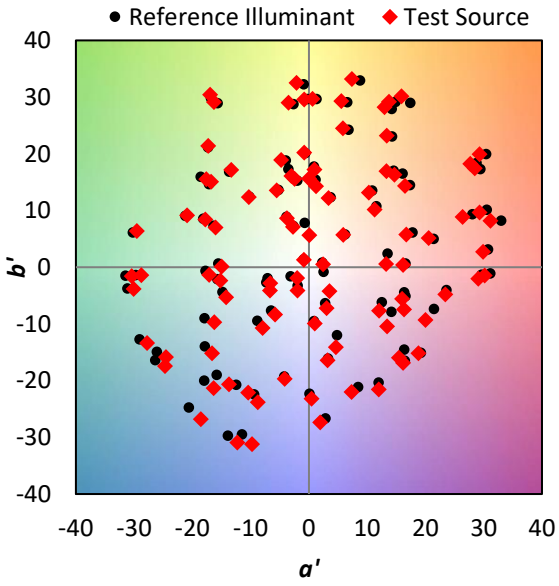
## Summary

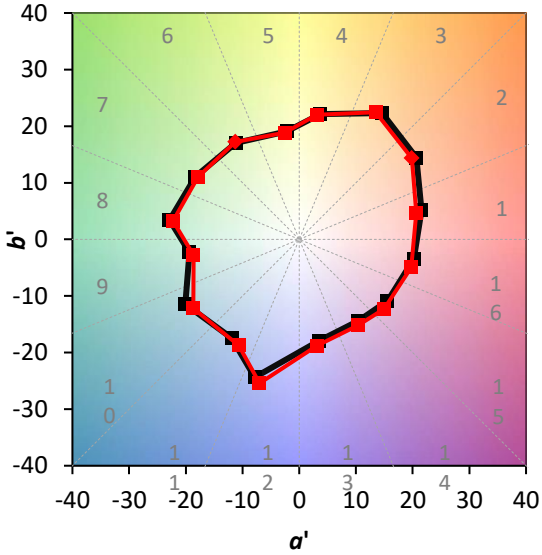
$R_f$ = 92.2
$R_g$ = 98.9
CIE $R_a$ = 92.2
$R_9$ = 63.3

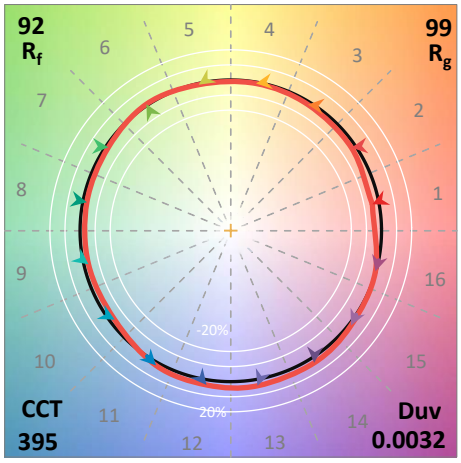
## Spectral Power Distribution Comparison

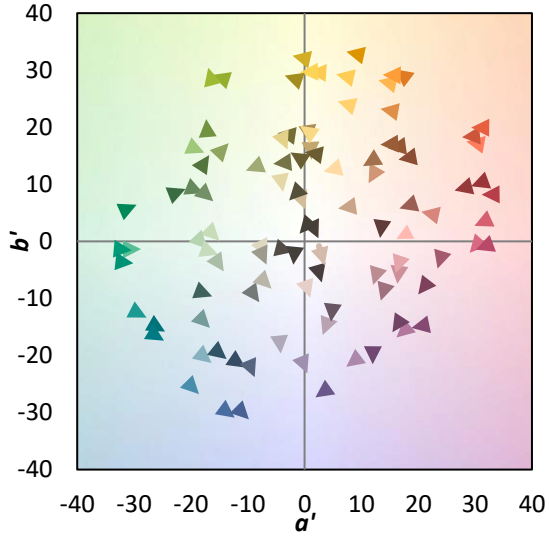



## Color Vector Graphics



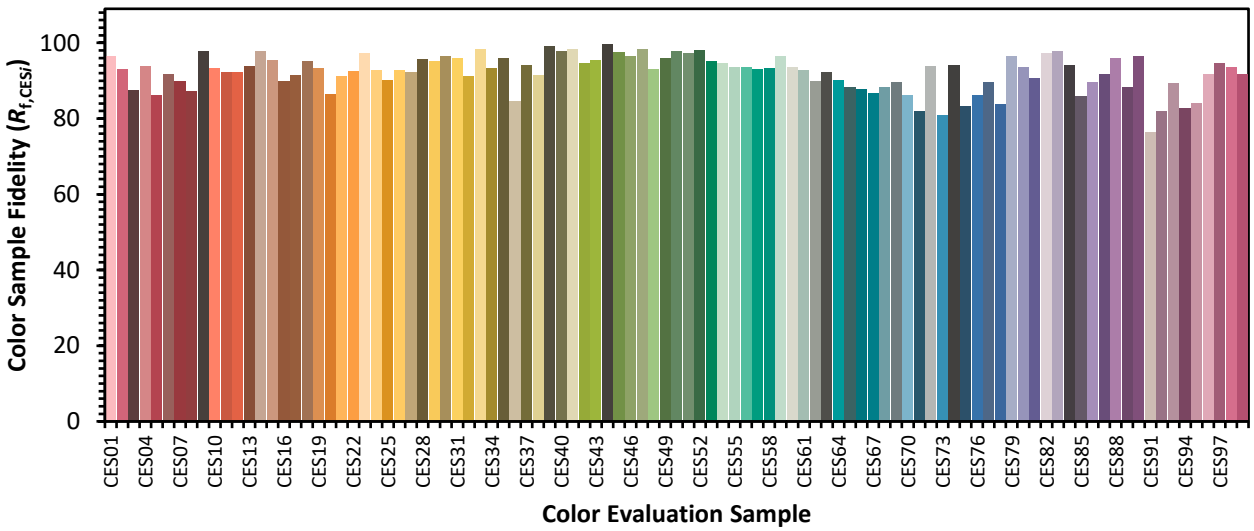
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 93 | CES51 = 97 | CES76 = 86 |
| CES02 = 61 | CES27 = 92 | CES52 = 98 | CES77 = 90 |
| CES03 = 31 | CES28 = 96 | CES53 = 95 | CES78 = 84 |
| CES04 = 69 | CES29 = 95 | CES54 = 95 | CES79 = 97 |
| CES05 = 49 | CES30 = 97 | CES55 = 94 | CES80 = 94 |
| CES06 = 50 | CES31 = 96 | CES56 = 94 | CES81 = 91 |
| CES07 = 42 | CES32 = 91 | CES57 = 93 | CES82 = 97 |
| CES08 = 41 | CES33 = 98 | CES58 = 93 | CES83 = 98 |
| CES09 = 29 | CES34 = 93 | CES59 = 96 | CES84 = 94 |
| CES10 = 74 | CES35 = 96 | CES60 = 94 | CES85 = 86 |
| CES11 = 57 | CES36 = 85 | CES61 = 93 | CES86 = 90 |
| CES12 = 63 | CES37 = 94 | CES62 = 90 | CES87 = 92 |
| CES13 = 43 | CES38 = 91 | CES63 = 92 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 90 | CES89 = 88 |
| CES15 = 71 | CES40 = 98 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 98 | CES66 = 88 | CES91 = 76 |
| CES17 = 49 | CES42 = 95 | CES67 = 87 | CES92 = 82 |
| CES18 = 56 | CES43 = 95 | CES68 = 88 | CES93 = 89 |
| CES19 = 71 | CES44 = 100 | CES69 = 90 | CES94 = 83 |
| CES20 = 66 | CES45 = 97 | CES70 = 86 | CES95 = 84 |
| CES21 = 85 | CES46 = 97 | CES71 = 82 | CES96 = 92 |
| CES22 = 78 | CES47 = 98 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 93 | CES73 = 81 | CES98 = 93 |
| CES24 = 90 | CES49 = 96 | CES74 = 94 | CES99 = 92 |
| CES25 = 71 | CES50 = 98 | CES75 = 83 | |

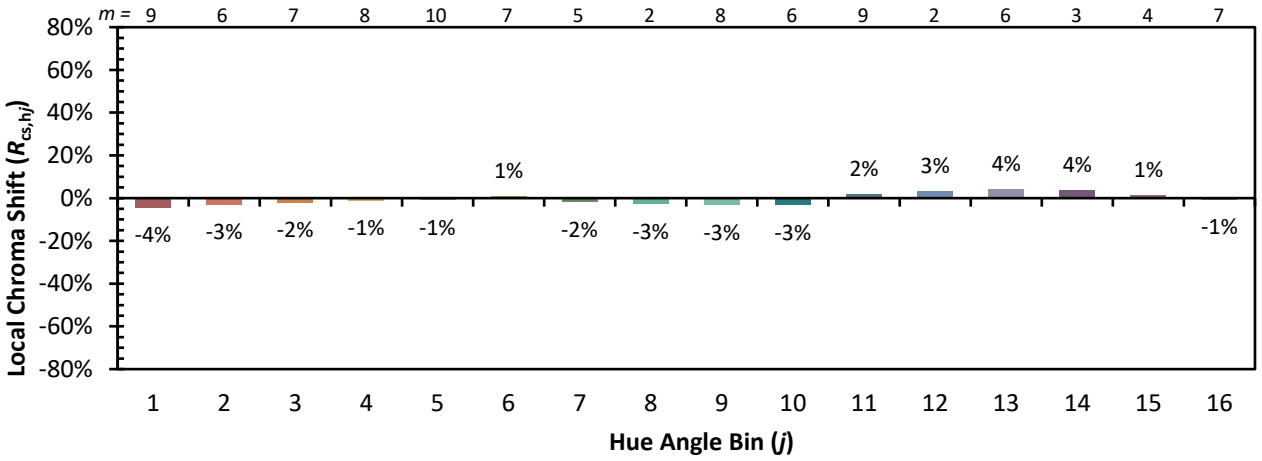


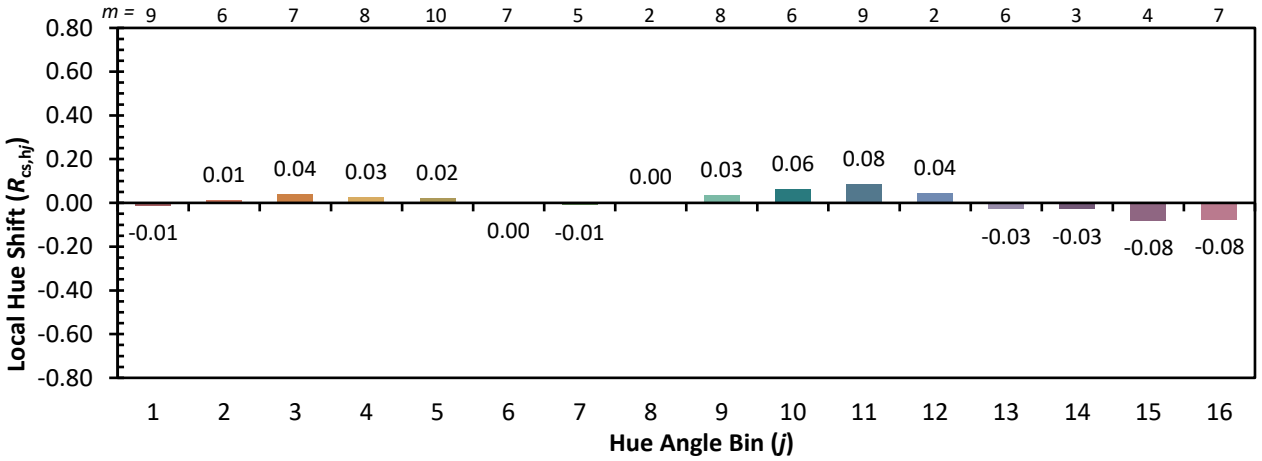
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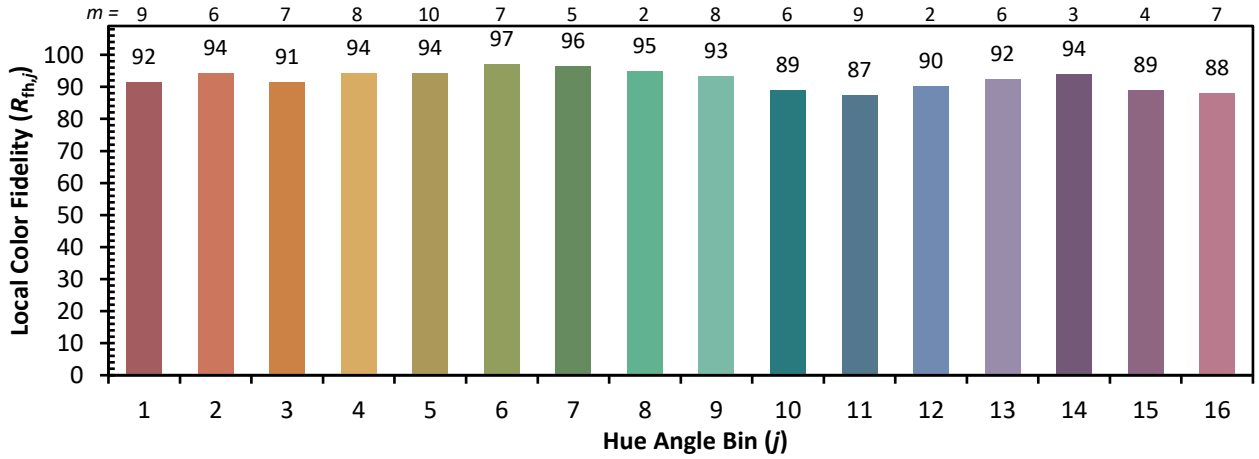
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## Color Rendition by Hue-Angle Bin



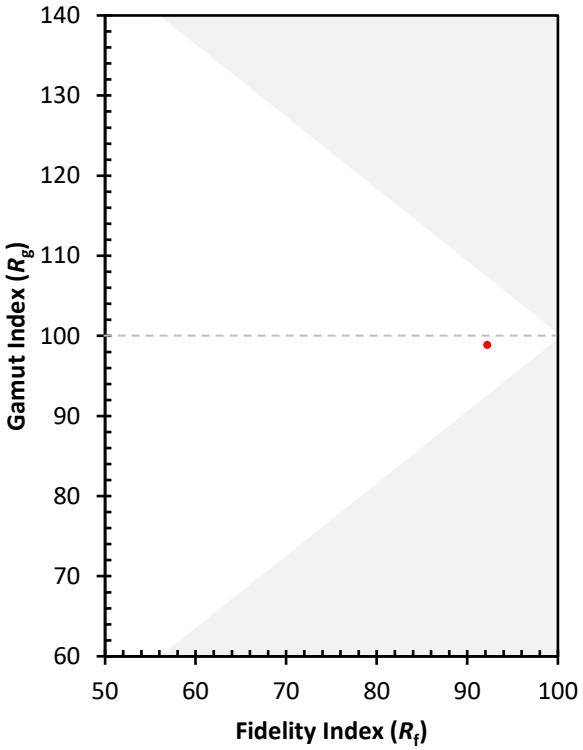



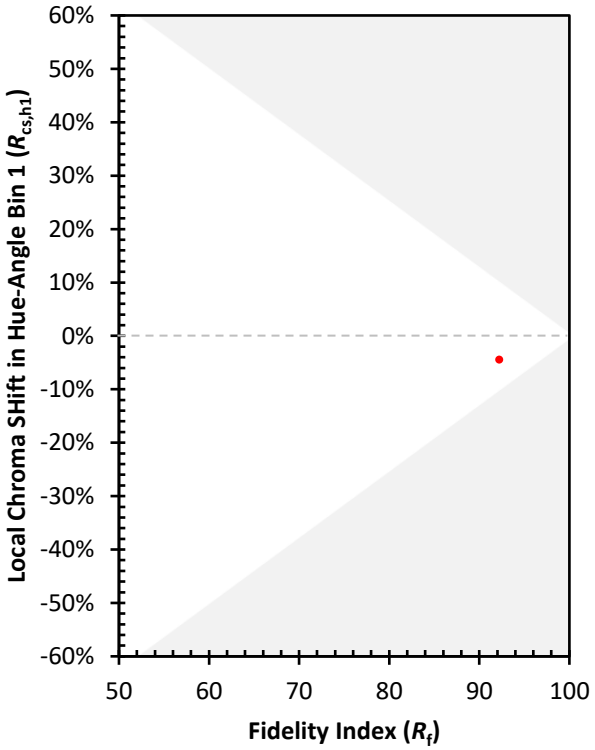
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### Measure Comparisons




(END OF REPORT)