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: P1501692

Luminaire Tested: GSS-SB2D-940-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501692 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2D-940-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 90CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (52) 4000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 13714.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 93.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

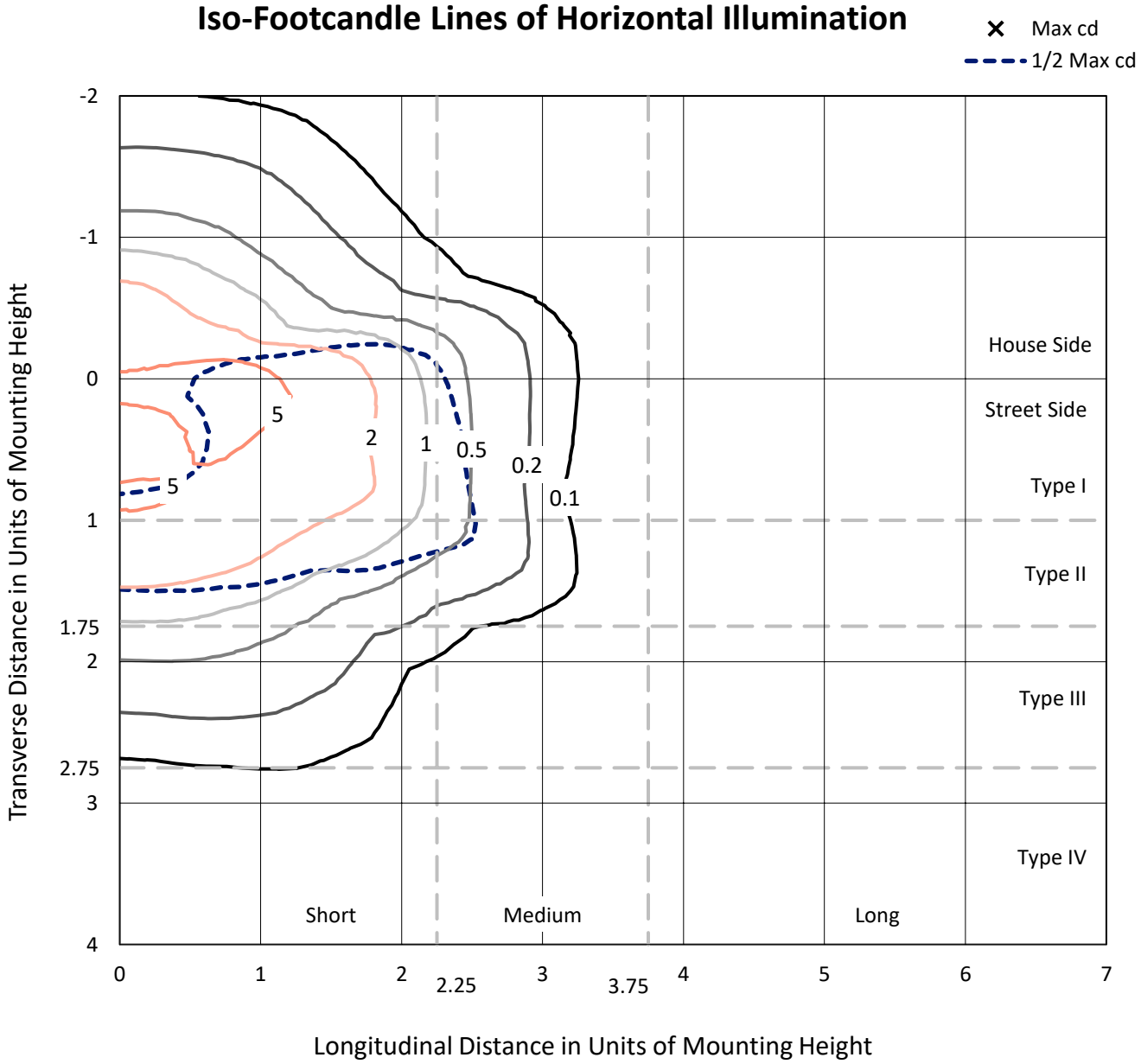
| | |
|---|---|
| Input Watts (W): | 147 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 3.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



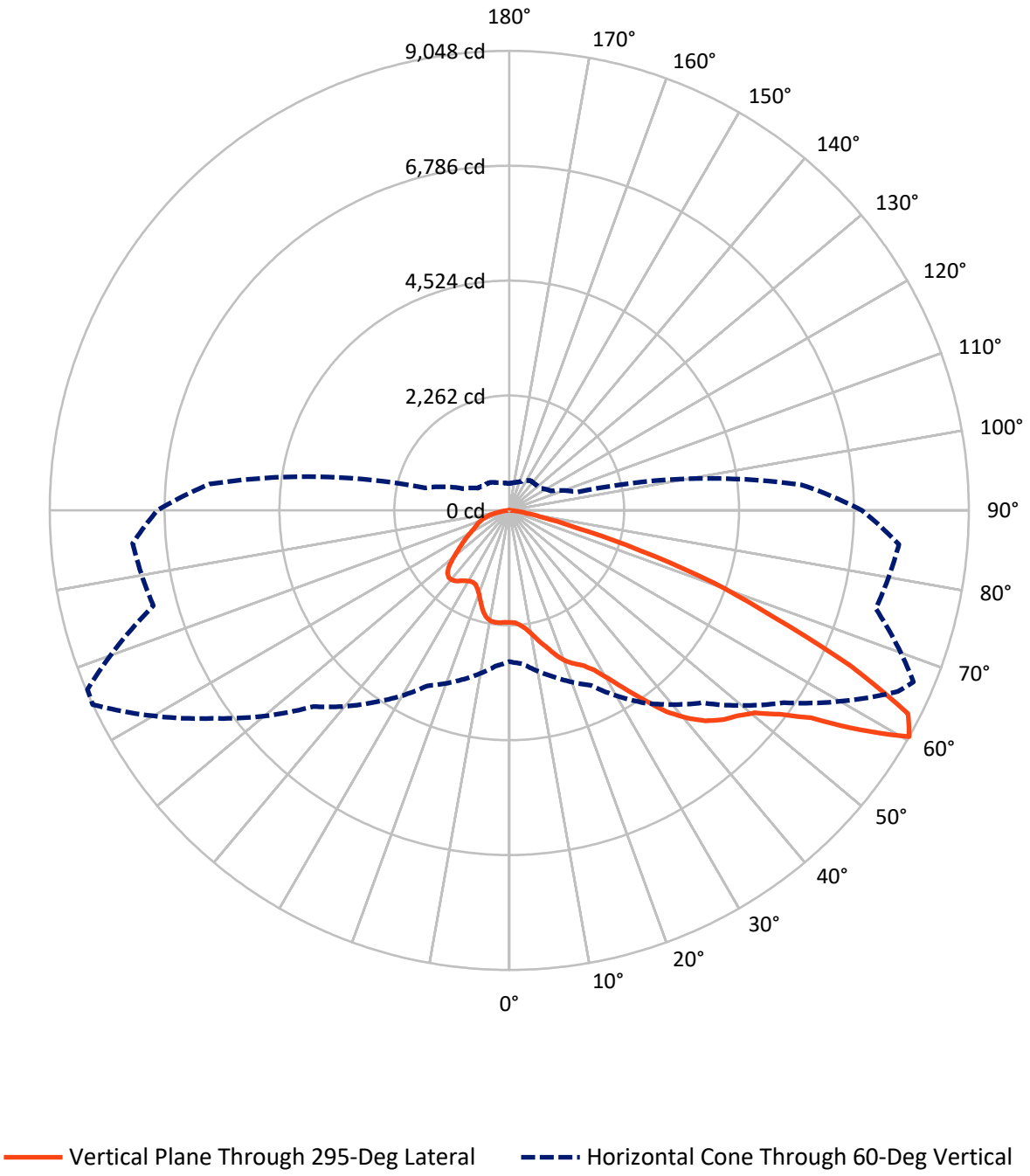

Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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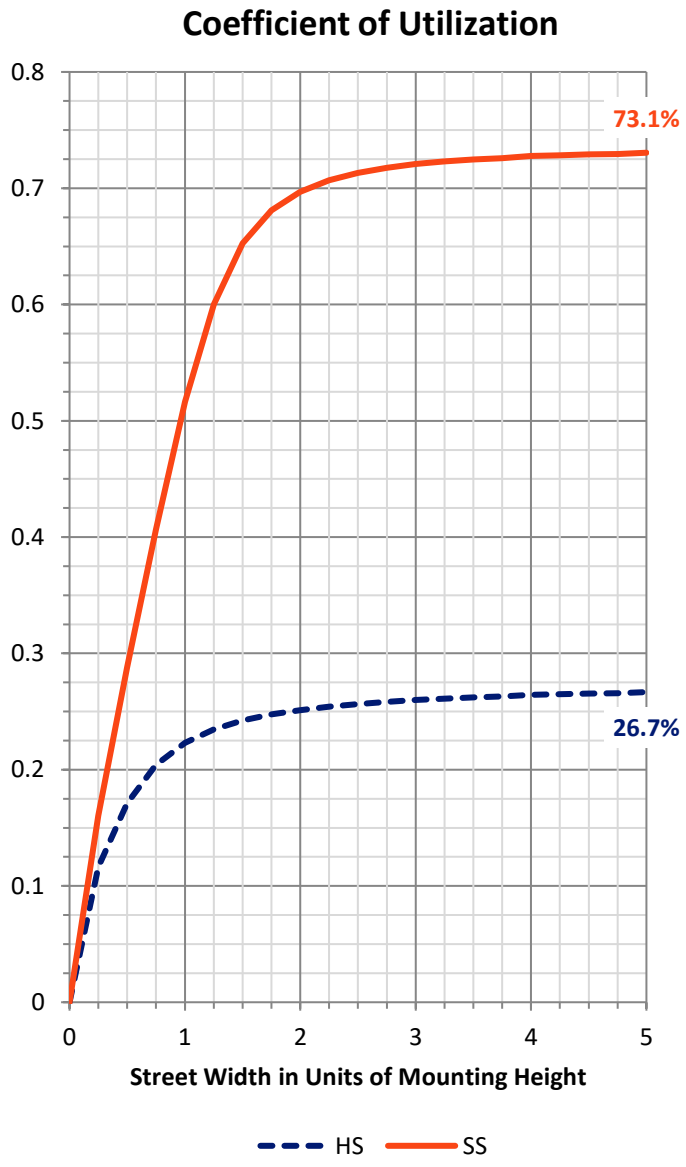
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3688.0 | 0.0 | 3688.0 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 10026.6 | 0.0 | 10026.6 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 13714.6 | 0.0 | 13714.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 207.5 | 1.5 |
| 10°-20° | 596.4 | 4.3 |
| 20°-30° | 1129.7 | 8.2 |
| 30°-40° | 1991.6 | 14.5 |
| 40°-50° | 2945.4 | 21.5 |
| 50°-60° | 3458.7 | 25.2 |
| 60°-70° | 2506.0 | 18.3 |
| 70°-80° | 772.8 | 5.6 |
| 80°-90° | 106.4 | 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° | 13714.6 | 100.0 |
| 0°-180° | 13714.6 | 100.0 |



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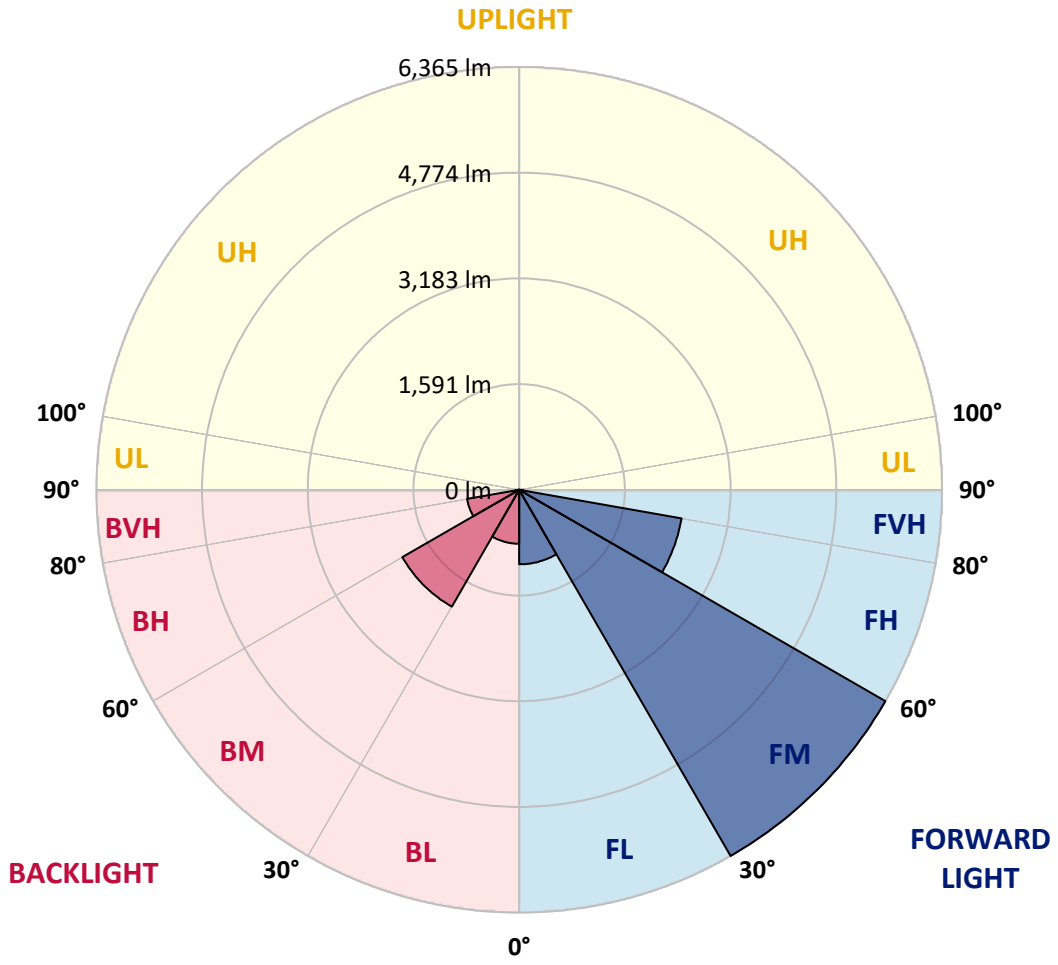
Scaled Data Report

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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°) | 1121.4 | 8.2 | | | |
| FM | (30°-60°) | 6365.0 | 46.4 | | | |
| FH | (60°-80°) | 2482.8 | 18.1 | | | G2/5000 |
| FVH | (80°-90°) | 57.4 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 812.2 | 5.9 | B2/1000 | | |
| BM | (30°-60°) | 2030.7 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 796.1 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 49.0 | 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° | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 |
| 2.5° | 2250.4 | 2256.6 | 2247.3 | 2253.5 | 2253.5 | 2244.1 | 2241.0 | 2228.5 | 2234.8 | 2231.6 | 2228.5 |
| 5° | 2303.5 | 2306.6 | 2300.4 | 2309.8 | 2309.8 | 2312.9 | 2309.8 | 2294.1 | 2294.1 | 2294.1 | 2287.9 |
| 7.5° | 2287.9 | 2287.9 | 2291.0 | 2322.3 | 2353.5 | 2394.2 | 2394.2 | 2387.9 | 2394.2 | 2391.0 | 2362.9 |
| 10° | 2156.6 | 2169.1 | 2197.2 | 2275.4 | 2350.4 | 2437.9 | 2497.3 | 2516.0 | 2516.0 | 2519.2 | 2472.3 |
| 12.5° | 1922.2 | 1931.6 | 1997.2 | 2116.0 | 2272.3 | 2431.7 | 2575.4 | 2669.2 | 2678.6 | 2694.2 | 2631.7 |
| 15° | 1712.8 | 1719.0 | 1765.9 | 1887.8 | 2066.0 | 2347.3 | 2619.2 | 2813.0 | 2844.2 | 2909.9 | 2816.1 |
| 17.5° | 1731.5 | 1728.4 | 1740.9 | 1787.8 | 1915.9 | 2209.7 | 2609.8 | 2981.8 | 3038.0 | 3153.7 | 3072.4 |
| 20° | 1844.1 | 1844.1 | 1853.4 | 1862.8 | 1909.7 | 2109.7 | 2541.1 | 3119.3 | 3228.7 | 3453.7 | 3359.9 |
| 22.5° | 2022.2 | 2022.2 | 2019.1 | 2034.7 | 2034.7 | 2153.5 | 2544.2 | 3222.4 | 3384.9 | 3788.1 | 3697.5 |
| 25° | 2269.1 | 2256.6 | 2256.6 | 2262.9 | 2234.8 | 2319.1 | 2622.3 | 3328.7 | 3541.2 | 4185.1 | 4106.9 |
| 27.5° | 2547.3 | 2556.7 | 2550.4 | 2528.5 | 2491.0 | 2556.7 | 2809.8 | 3494.3 | 3716.2 | 4603.9 | 4572.6 |
| 30° | 2850.5 | 2853.6 | 2859.9 | 2847.4 | 2816.1 | 2863.0 | 3103.6 | 3744.4 | 3947.5 | 5041.5 | 5110.2 |
| 32.5° | 3147.4 | 3191.2 | 3175.5 | 3144.3 | 3156.8 | 3241.2 | 3466.2 | 4081.9 | 4291.3 | 5447.8 | 5691.6 |
| 35° | 3525.6 | 3541.2 | 3603.7 | 3488.1 | 3491.2 | 3635.0 | 3928.8 | 4525.8 | 4728.9 | 5869.7 | 6272.9 |
| 37.5° | 4075.7 | 4103.8 | 4075.7 | 3894.4 | 3866.3 | 4066.3 | 4378.9 | 4963.3 | 5110.2 | 6188.5 | 6813.6 |
| 40° | 4616.4 | 4650.8 | 4697.7 | 4485.1 | 4307.0 | 4472.6 | 4803.9 | 5297.8 | 5450.9 | 6363.6 | 7173.1 |
| 42.5° | 5063.4 | 5119.6 | 5069.6 | 5007.1 | 4844.6 | 4875.8 | 5100.9 | 5557.2 | 5710.3 | 6585.5 | 7535.6 |
| 45° | 5441.5 | 5450.9 | 5472.8 | 5429.0 | 5347.8 | 5319.6 | 5354.0 | 5785.3 | 5954.1 | 6685.5 | 7713.8 |
| 47.5° | 5597.8 | 5638.4 | 5657.2 | 5732.2 | 5816.6 | 5760.3 | 5569.7 | 5891.6 | 6044.8 | 6679.2 | 7770.1 |
| 50° | 5513.4 | 5554.1 | 5654.1 | 5832.2 | 6035.4 | 6135.4 | 5822.9 | 6038.5 | 6210.4 | 6791.8 | 7885.7 |
| 52.5° | 5291.5 | 5335.3 | 5497.8 | 5701.0 | 6041.6 | 6269.8 | 6179.2 | 6344.8 | 6510.5 | 6991.8 | 8079.5 |
| 55° | 4753.9 | 4819.6 | 5047.7 | 5385.3 | 5854.1 | 6197.9 | 6554.2 | 6794.9 | 6976.2 | 7232.5 | 8279.5 |
| 57.5° | 3972.5 | 4041.3 | 4297.6 | 4803.9 | 5507.2 | 5901.0 | 6663.6 | 7638.8 | 7720.0 | 7520.0 | 8298.3 |
| 60° | *2975.5* | *3031.8* | *3394.3* | *3800.6* | *4625.8* | *5357.1* | *6601.1* | *8438.9* | *8645.2* | *7470.0* | *7701.3* |
| 62.5° | 2356.6 | 2425.4 | 2747.3 | 2934.9 | 3525.6 | 4425.7 | 6382.3 | 8660.8 | 8839.0 | 7057.4 | 6869.9 |
| 65° | 1840.9 | 1887.8 | 2187.9 | 2456.7 | 2600.4 | 3022.4 | 5469.7 | 7576.3 | 7735.7 | 6385.4 | 5669.7 |
| 67.5° | 1215.8 | 1287.7 | 1644.0 | 2012.8 | 2087.9 | 1922.2 | 3763.1 | 5829.1 | 5904.1 | 5075.9 | 4263.2 |
| 70° | 872.0 | 906.4 | 1172.1 | 1565.9 | 1678.4 | 1287.7 | 2050.3 | 4413.2 | 4435.1 | 3406.8 | 2872.4 |
| 72.5° | 593.8 | 600.1 | 797.0 | 1200.2 | 1337.7 | 934.5 | 1128.3 | 2906.7 | 2831.7 | 1681.5 | 1644.0 |
| 75° | 403.2 | 409.4 | 509.5 | 800.1 | 947.0 | 650.1 | 734.5 | 1584.6 | 1522.1 | 928.3 | 997.0 |
| 77.5° | 271.9 | 278.2 | 350.1 | 537.6 | 631.4 | 450.1 | 537.6 | 837.6 | 822.0 | 615.7 | 534.5 |
| 80° | 206.3 | 215.7 | 259.4 | 343.8 | 440.7 | 262.5 | 306.3 | 396.9 | 403.2 | 328.2 | 271.9 |
| 82.5° | 115.6 | 128.1 | 156.3 | 175.0 | 284.4 | 146.9 | 146.9 | 237.5 | 228.2 | 203.2 | 146.9 |
| 85° | 50.0 | 53.1 | 62.5 | 65.6 | 115.6 | 62.5 | 53.1 | 103.1 | 106.3 | 100.0 | 46.9 |
| 87.5° | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 12.5 | 12.5 | 12.5 | 12.5 |
| 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° | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 |
| 2.5° | 2212.9 | 2231.6 | 2212.9 | 2203.5 | 2203.5 | 2187.9 | 2181.6 | 2181.6 | 2159.7 | 2169.1 | 2162.9 |
| 5° | 2262.9 | 2269.1 | 2247.3 | 2219.1 | 2181.6 | 2150.4 | 2106.6 | 2050.3 | 2016.0 | 2012.8 | 2016.0 |
| 7.5° | 2341.0 | 2344.1 | 2284.8 | 2222.2 | 2128.5 | 2016.0 | 1881.6 | 1772.2 | 1675.3 | 1659.7 | 1678.4 |
| 10° | 2450.4 | 2444.2 | 2356.6 | 2209.7 | 2012.8 | 1775.3 | 1569.0 | 1469.0 | 1412.7 | 1409.6 | 1406.5 |
| 12.5° | 2597.3 | 2556.7 | 2422.3 | 2156.6 | 1812.8 | 1537.8 | 1431.5 | 1425.2 | 1440.9 | 1453.4 | 1456.5 |
| 15° | 2766.1 | 2713.0 | 2475.4 | 2053.5 | 1609.6 | 1450.2 | 1456.5 | 1509.6 | 1528.4 | 1540.9 | 1540.9 |
| 17.5° | 2975.5 | 2906.7 | 2534.8 | 1906.6 | 1506.5 | 1469.0 | 1512.8 | 1562.8 | 1594.0 | 1606.5 | 1603.4 |
| 20° | 3253.7 | 3109.9 | 2581.7 | 1765.9 | 1478.4 | 1500.3 | 1537.8 | 1587.8 | 1619.0 | 1634.6 | 1634.6 |
| 22.5° | 3531.8 | 3353.7 | 2591.1 | 1669.0 | 1478.4 | 1503.4 | 1537.8 | 1587.8 | 1622.1 | 1637.8 | 1634.6 |
| 25° | 3910.0 | 3666.2 | 2594.2 | 1600.3 | 1481.5 | 1487.7 | 1519.0 | 1562.8 | 1612.8 | 1628.4 | 1634.6 |
| 27.5° | 4313.2 | 4010.0 | 2609.8 | 1584.6 | 1469.0 | 1465.9 | 1487.7 | 1528.4 | 1578.4 | 1619.0 | 1622.1 |
| 30° | 4813.3 | 4397.6 | 2616.1 | 1600.3 | 1472.1 | 1431.5 | 1447.1 | 1487.7 | 1540.9 | 1581.5 | 1594.0 |
| 32.5° | 5304.0 | 4757.0 | 2603.6 | 1634.6 | 1478.4 | 1409.6 | 1412.7 | 1437.7 | 1494.0 | 1522.1 | 1544.0 |
| 35° | 5822.9 | 5138.4 | 2581.7 | 1681.5 | 1481.5 | 1400.2 | 1372.1 | 1384.6 | 1422.1 | 1425.2 | 1434.6 |
| 37.5° | 6229.2 | 5422.8 | 2516.0 | 1744.0 | 1487.7 | 1365.9 | 1309.6 | 1300.2 | 1284.6 | 1253.3 | 1259.6 |
| 40° | 6563.6 | 5613.4 | 2406.7 | 1775.3 | 1472.1 | 1325.2 | 1231.5 | 1187.7 | 1128.3 | 1081.4 | 1090.8 |
| 42.5° | 6804.3 | 5741.6 | 2275.4 | 1781.5 | 1447.1 | 1256.5 | 1140.8 | 1065.8 | 1000.2 | 950.2 | 953.3 |
| 45° | 6910.5 | 5729.1 | 2134.7 | 1734.7 | 1387.7 | 1172.1 | 1056.4 | 984.5 | 912.7 | 859.5 | 853.3 |
| 47.5° | 6913.7 | 5607.2 | 1941.0 | 1622.1 | 1287.7 | 1075.2 | 978.3 | 900.2 | 840.8 | 803.3 | 800.1 |
| 50° | 6938.7 | 5538.4 | 1759.7 | 1459.6 | 1156.4 | 972.0 | 909.5 | 831.4 | 797.0 | 743.9 | 728.2 |
| 52.5° | 7094.9 | 5650.9 | 1634.6 | 1281.5 | 1034.5 | 897.0 | 850.1 | 781.4 | 725.1 | 690.7 | 687.6 |
| 55° | 7348.1 | 5844.7 | 1565.9 | 1147.1 | 918.9 | 825.1 | 793.9 | 734.5 | 684.5 | 650.1 | 640.7 |
| 57.5° | 7379.4 | 5944.7 | 1484.6 | 1022.0 | 825.1 | 768.9 | 756.4 | 690.7 | 618.9 | 593.8 | 584.5 |
| 60° | *6941.8* | *5776.0* | *1384.6* | *906.4* | *756.4* | *725.1* | *718.9* | *631.4* | *572.0* | *540.7* | *528.2* |
| 62.5° | 6344.8 | 5354.0 | 1231.5 | 800.1 | 703.2 | 681.4 | 656.4 | 587.6 | 512.6 | 478.2 | 468.8 |
| 65° | 5185.2 | 4500.8 | 1047.1 | 728.2 | 650.1 | 625.1 | 618.9 | 525.1 | 475.1 | 456.3 | 453.2 |
| 67.5° | 3928.8 | 3616.2 | 922.0 | 675.1 | 593.8 | 584.5 | 562.6 | 531.3 | 509.5 | 487.6 | 481.3 |
| 70° | 2778.6 | 2609.8 | 784.5 | 606.4 | 537.6 | 522.0 | 612.6 | 578.2 | 500.1 | 472.0 | 468.8 |
| 72.5° | 1684.7 | 1637.8 | 678.2 | 543.8 | 462.6 | 487.6 | 565.7 | 522.0 | 450.1 | 415.7 | 403.2 |
| 75° | 1062.7 | 972.0 | 568.8 | 462.6 | 368.8 | 396.9 | 493.8 | 465.7 | 387.6 | 353.2 | 343.8 |
| 77.5° | 578.2 | 537.6 | 428.2 | 378.2 | 290.7 | 321.9 | 431.3 | 384.4 | 309.4 | 337.6 | 300.1 |
| 80° | 253.2 | 281.3 | 284.4 | 218.8 | 193.8 | 237.5 | 309.4 | 300.1 | 237.5 | 240.7 | 200.0 |
| 82.5° | 121.9 | 159.4 | 184.4 | 150.0 | 109.4 | 140.6 | 206.3 | 171.9 | 159.4 | 150.0 | 143.8 |
| 85° | 37.5 | 59.4 | 81.3 | 71.9 | 50.0 | 59.4 | 96.9 | 93.8 | 112.5 | 96.9 | 90.6 |
| 87.5° | 12.5 | 12.5 | 9.4 | 9.4 | 9.4 | 12.5 | 15.6 | 9.4 | 3.1 | 3.1 | 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° | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 |
| 2.5° | 2159.7 | 2162.9 | 2162.9 | 2166.0 | 2166.0 | 2175.4 | 2187.9 | 2200.4 | 2191.0 | 2203.5 | 2206.6 |
| 5° | 2009.7 | 2025.3 | 2037.8 | 2084.7 | 2122.2 | 2153.5 | 2187.9 | 2219.1 | 2228.5 | 2234.8 | 2250.4 |
| 7.5° | 1656.5 | 1700.3 | 1781.5 | 1887.8 | 2006.6 | 2122.2 | 2200.4 | 2281.6 | 2294.1 | 2309.8 | 2331.6 |
| 10° | 1409.6 | 1428.4 | 1484.6 | 1594.0 | 1806.6 | 2034.7 | 2225.4 | 2353.5 | 2406.7 | 2437.9 | 2459.8 |
| 12.5° | 1450.2 | 1437.7 | 1428.4 | 1444.0 | 1581.5 | 1875.3 | 2209.7 | 2456.7 | 2556.7 | 2591.1 | 2619.2 |
| 15° | 1547.1 | 1534.6 | 1500.3 | 1456.5 | 1472.1 | 1706.5 | 2156.6 | 2553.6 | 2713.0 | 2769.2 | 2828.6 |
| 17.5° | 1603.4 | 1590.9 | 1562.8 | 1515.9 | 1475.2 | 1565.9 | 2056.6 | 2641.1 | 2959.9 | 3028.6 | 3113.0 |
| 20° | 1634.6 | 1622.1 | 1594.0 | 1547.1 | 1500.3 | 1512.8 | 1928.4 | 2750.5 | 3241.2 | 3350.6 | 3475.6 |
| 22.5° | 1640.9 | 1625.3 | 1594.0 | 1547.1 | 1519.0 | 1509.6 | 1806.6 | 2816.1 | 3544.3 | 3713.1 | 3856.9 |
| 25° | 1637.8 | 1609.6 | 1569.0 | 1534.6 | 1519.0 | 1515.9 | 1722.2 | 2853.6 | 3872.5 | 4141.3 | 4303.8 |
| 27.5° | 1615.9 | 1581.5 | 1540.9 | 1515.9 | 1509.6 | 1528.4 | 1684.7 | 2897.4 | 4257.0 | 4600.8 | 4860.2 |
| 30° | 1590.9 | 1540.9 | 1490.9 | 1481.5 | 1497.1 | 1556.5 | 1715.9 | 2913.0 | 4660.2 | 5100.9 | 5366.5 |
| 32.5° | 1525.3 | 1487.7 | 1437.7 | 1434.6 | 1472.1 | 1578.4 | 1787.8 | 2891.1 | 5016.5 | 5600.9 | 5935.4 |
| 35° | 1431.5 | 1409.6 | 1381.5 | 1390.9 | 1450.2 | 1597.1 | 1837.8 | 2822.3 | 5341.5 | 6066.6 | 6457.3 |
| 37.5° | 1265.8 | 1281.5 | 1297.1 | 1319.0 | 1394.0 | 1594.0 | 1859.7 | 2713.0 | 5610.3 | 6438.6 | 6938.7 |
| 40° | 1081.4 | 1134.6 | 1184.6 | 1240.8 | 1340.9 | 1569.0 | 1865.9 | 2578.6 | 5766.6 | 6719.9 | 7366.9 |
| 42.5° | 965.8 | 1015.8 | 1078.3 | 1159.6 | 1269.0 | 1512.8 | 1859.7 | 2428.5 | 5816.6 | 6913.7 | 7638.8 |
| 45° | 859.5 | 918.9 | 997.0 | 1081.4 | 1206.5 | 1431.5 | 1803.4 | 2266.0 | 5841.6 | 7004.3 | 7754.4 |
| 47.5° | 803.3 | 837.6 | 909.5 | 993.9 | 1125.2 | 1331.5 | 1694.0 | 2147.2 | 5804.1 | 7023.1 | 7895.1 |
| 50° | 737.6 | 784.5 | 831.4 | 912.7 | 1040.8 | 1206.5 | 1562.8 | 2078.5 | 5866.6 | 7207.5 | 8117.0 |
| 52.5° | 687.6 | 712.6 | 762.6 | 837.6 | 931.4 | 1090.8 | 1437.7 | 2022.2 | 6038.5 | 7395.0 | 8348.3 |
| 55° | 650.1 | 678.2 | 709.5 | 772.0 | 843.9 | 975.2 | 1309.6 | 1937.8 | 6238.5 | 7595.0 | 8579.6 |
| 57.5° | 590.7 | 609.5 | 653.2 | 718.9 | 765.8 | 862.6 | 1159.6 | 1837.8 | 6222.9 | 7438.7 | 8179.5 |
| 60° | *537.6* | *556.3* | *603.2* | *668.9* | *697.0* | *762.6* | *1012.7* | *1709.7* | *5922.9* | *6929.3* | *7441.9* |
| 62.5° | 478.2 | 500.1 | 556.3 | 603.2 | 628.2 | 678.2 | 859.5 | 1475.2 | 5297.8 | 6163.5 | 6579.2 |
| 65° | 453.2 | 465.7 | 503.2 | 559.5 | 556.3 | 603.2 | 725.1 | 1159.6 | 4263.2 | 4710.2 | 5088.4 |
| 67.5° | 481.3 | 500.1 | 493.8 | 509.5 | 500.1 | 525.1 | 650.1 | 931.4 | 3350.6 | 3547.5 | 3766.3 |
| 70° | 475.1 | 518.8 | 540.7 | 509.5 | 437.6 | 465.7 | 562.6 | 743.9 | 2397.3 | 2378.5 | 2369.1 |
| 72.5° | 415.7 | 459.5 | 522.0 | 553.2 | 428.2 | 387.6 | 487.6 | 643.9 | 1537.8 | 1531.5 | 1384.6 |
| 75° | 353.2 | 384.4 | 459.5 | 500.1 | 368.8 | 312.6 | 418.8 | 547.0 | 918.9 | 931.4 | 831.4 |
| 77.5° | 325.1 | 309.4 | 384.4 | 440.7 | 300.1 | 240.7 | 337.6 | 412.6 | 506.3 | 512.6 | 475.1 |
| 80° | 234.4 | 225.0 | 287.5 | 321.9 | 228.2 | 171.9 | 190.7 | 256.3 | 271.9 | 243.8 | 253.2 |
| 82.5° | 150.0 | 153.2 | 171.9 | 206.3 | 140.6 | 93.8 | 131.3 | 171.9 | 146.9 | 118.8 | 140.6 |
| 85° | 96.9 | 109.4 | 90.6 | 106.3 | 43.8 | 43.8 | 56.3 | 75.0 | 50.0 | 34.4 | 37.5 |
| 87.5° | 0.0 | 0.0 | 6.3 | 12.5 | 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: P1501692
CATALOG NUMBER: GSS-SB2D-940-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2206.6 | 2206.6 | *2206.6* | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 | 2206.6 |
| 2.5° | 2216.0 | 2212.9 | *2212.9* | 2219.1 | 2234.8 | 2241.0 | 2250.4 | 2247.3 | 2256.6 | 2250.4 |
| 5° | 2259.8 | 2262.9 | *2272.3* | 2275.4 | 2284.8 | 2297.3 | 2300.4 | 2297.3 | 2303.5 | 2303.5 |
| 7.5° | 2347.3 | 2359.8 | *2353.5* | 2369.1 | 2356.6 | 2341.0 | 2316.0 | 2297.3 | 2281.6 | 2287.9 |
| 10° | 2494.2 | 2487.9 | *2484.8* | 2456.7 | 2400.4 | 2319.1 | 2253.5 | 2181.6 | 2169.1 | 2156.6 |
| 12.5° | 2656.7 | 2650.4 | *2650.4* | 2553.6 | 2394.2 | 2225.4 | 2075.3 | 1962.8 | 1925.3 | 1922.2 |
| 15° | 2884.9 | 2844.2 | *2806.7* | 2603.6 | 2284.8 | 1997.2 | 1822.2 | 1734.7 | 1712.8 | 1712.8 |
| 17.5° | 3169.3 | 3063.0 | *3000.5* | 2566.1 | 2106.6 | 1847.2 | 1744.0 | 1722.2 | 1715.9 | 1731.5 |
| 20° | 3522.5 | 3253.7 | *3163.0* | 2481.7 | 2041.0 | 1865.9 | 1815.9 | 1819.1 | 1822.2 | 1844.1 |
| 22.5° | 3910.0 | 3428.7 | *3278.7* | 2481.7 | 2106.6 | 1984.7 | 1959.7 | 1994.1 | 2003.5 | 2022.2 |
| 25° | 4341.4 | 3585.0 | *3381.8* | 2612.9 | 2300.4 | 2209.7 | 2178.5 | 2212.9 | 2237.9 | 2269.1 |
| 27.5° | 4825.8 | 3747.5 | *3560.0* | 2850.5 | 2550.4 | 2494.2 | 2459.8 | 2475.4 | 2509.8 | 2547.3 |
| 30° | 5260.3 | 4019.4 | *3831.9* | 3213.0 | 2891.1 | 2822.3 | 2763.0 | 2788.0 | 2825.5 | 2850.5 |
| 32.5° | 5644.7 | 4350.7 | *4191.3* | 3594.4 | 3281.8 | 3163.0 | 3097.4 | 3091.1 | 3166.2 | 3147.4 |
| 35° | 5997.9 | 4741.4 | *4588.3* | 4028.8 | 3678.7 | 3531.8 | 3444.3 | 3556.8 | 3506.8 | 3525.6 |
| 37.5° | 6276.1 | 5147.7 | *5025.8* | 4444.5 | 4091.3 | 3891.3 | 3838.1 | 3975.7 | 4053.8 | 4075.7 |
| 40° | 6504.2 | 5500.9 | *5372.8* | 4857.1 | 4469.5 | 4322.6 | 4407.0 | 4635.2 | 4625.8 | 4616.4 |
| 42.5° | 6679.2 | 5804.1 | *5663.5* | 5169.6 | 4832.1 | 4860.2 | 4925.8 | 5079.0 | 5116.5 | 5063.4 |
| 45° | 6757.4 | 5994.8 | *5882.2* | 5416.5 | 5244.6 | 5407.2 | 5435.3 | 5500.9 | 5475.9 | 5441.5 |
| 47.5° | 6848.0 | 6163.5 | *6044.8* | 5641.6 | 5691.6 | 5851.0 | 5794.7 | 5741.6 | 5650.9 | 5597.8 |
| 50° | 7001.2 | 6363.6 | *6263.6* | 5969.8 | 6151.0 | 6097.9 | 5879.1 | 5760.3 | 5575.9 | 5513.4 |
| 52.5° | 7291.8 | 6741.8 | *6666.7* | 6488.6 | 6366.7 | 6060.4 | 5794.7 | 5582.2 | 5375.9 | 5291.5 |
| 55° | 7551.3 | 7254.3 | *7210.6* | 6973.0 | 6301.1 | 5863.5 | 5507.2 | 5179.0 | 4825.8 | 4753.9 |
| 57.5° | 7701.3 | 8104.5 | *8154.5* | 7179.3 | 6001.0 | 5416.5 | 4891.4 | 4366.4 | 4031.9 | 3972.5 |
| 60° | *7254.3* | *9023.4* | *9048.4* | *7138.7* | *5460.3* | *4610.1* | *3810.0* | *3438.1* | *3078.6* | *2975.5* |
| 62.5° | 6638.6 | 8832.7 | *8810.9* | 6894.9 | 4347.6 | 3363.1 | 2894.2 | 2719.2 | 2441.0 | 2356.6 |
| 65° | 5707.2 | 7357.5 | *7382.5* | 5957.3 | 2891.1 | 2431.7 | 2431.7 | 2209.7 | 1900.3 | 1840.9 |
| 67.5° | 4650.8 | 5672.8 | *5616.6* | 3863.1 | 1775.3 | 1947.2 | 2041.0 | 1722.2 | 1287.7 | 1215.8 |
| 70° | 3022.4 | 4332.0 | *4253.8* | 2228.5 | 1115.8 | 1622.1 | 1606.5 | 1294.0 | 922.0 | 872.0 |
| 72.5° | 1300.2 | 2503.5 | *2662.9* | 1137.7 | 840.8 | 1306.5 | 1281.5 | 906.4 | 615.7 | 593.8 |
| 75° | 784.5 | 1259.6 | *1372.1* | 725.1 | 612.6 | 984.5 | 887.6 | 575.1 | 418.8 | 403.2 |
| 77.5° | 497.0 | 690.7 | *684.5* | 543.8 | 459.5 | 665.7 | 597.0 | 396.9 | 284.4 | 271.9 |
| 80° | 287.5 | 340.7 | *353.2* | 340.7 | 309.4 | 475.1 | 381.3 | 287.5 | 221.9 | 206.3 |
| 82.5° | 184.4 | 212.5 | *215.7* | 165.7 | 171.9 | 306.3 | 206.3 | 168.8 | 128.1 | 115.6 |
| 85° | 81.3 | 90.6 | *87.5* | 56.3 | 56.3 | 125.0 | 71.9 | 68.8 | 50.0 | 50.0 |
| 87.5° | 3.1 | 6.3 | *3.1* | 3.1 | 3.1 | 12.5 | 6.3 | 9.4 | 9.4 | 9.4 |
| 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

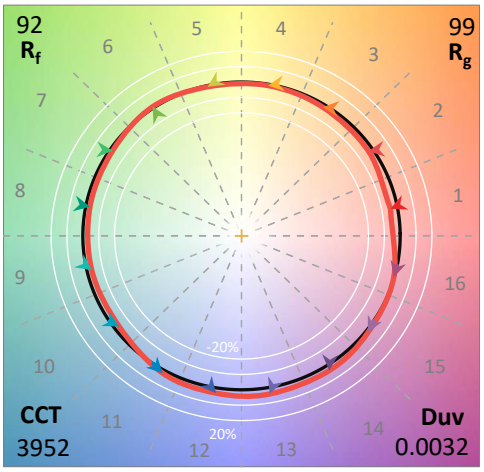
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| 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

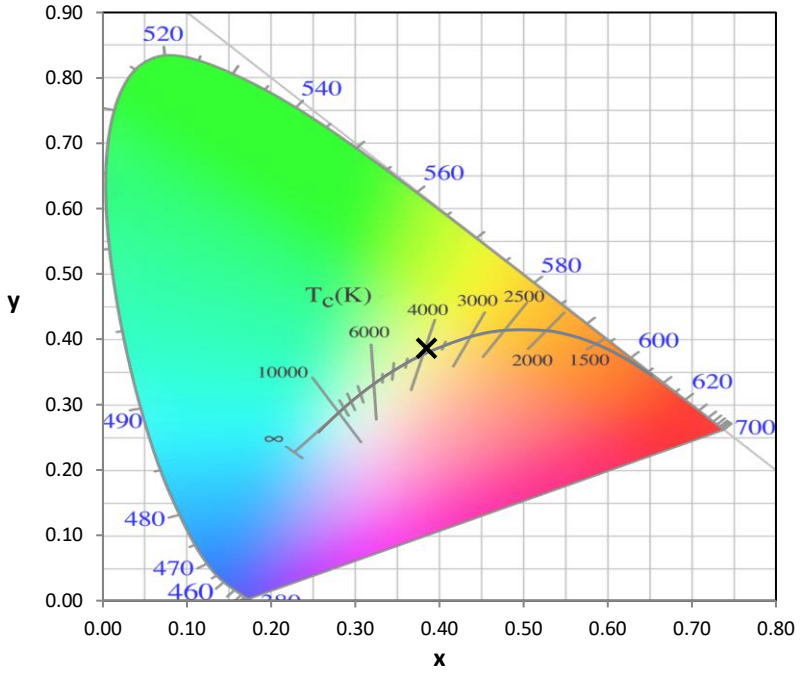
REPORT NUMBER: SP1-2106-271-4

| 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 |

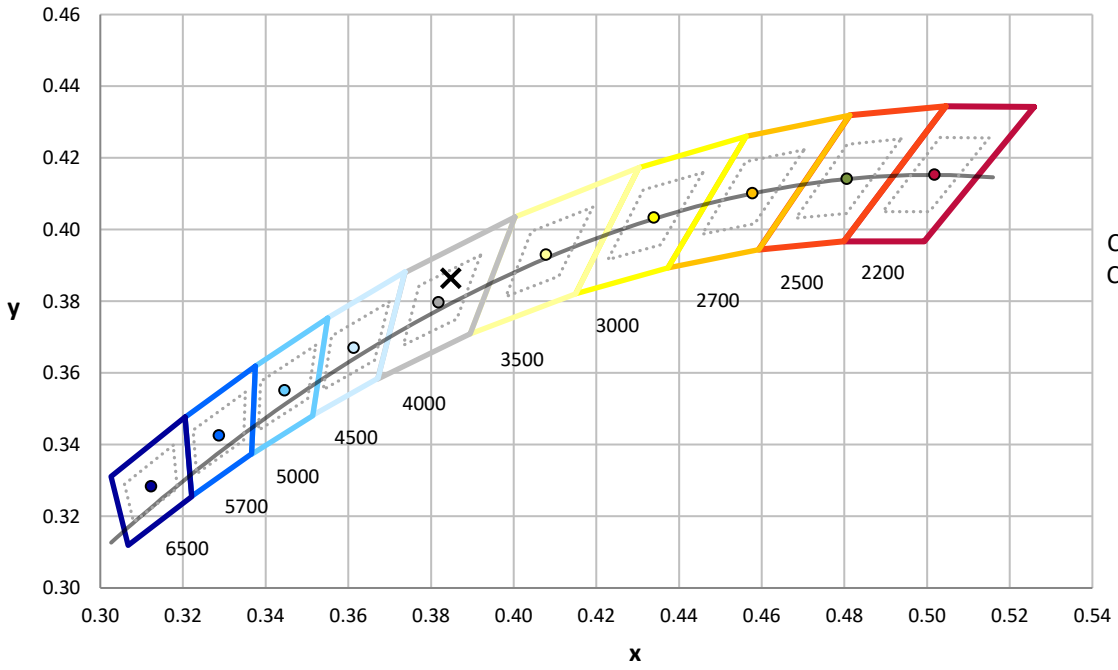
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-4

## CIE 1931 Chromaticity Diagram




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



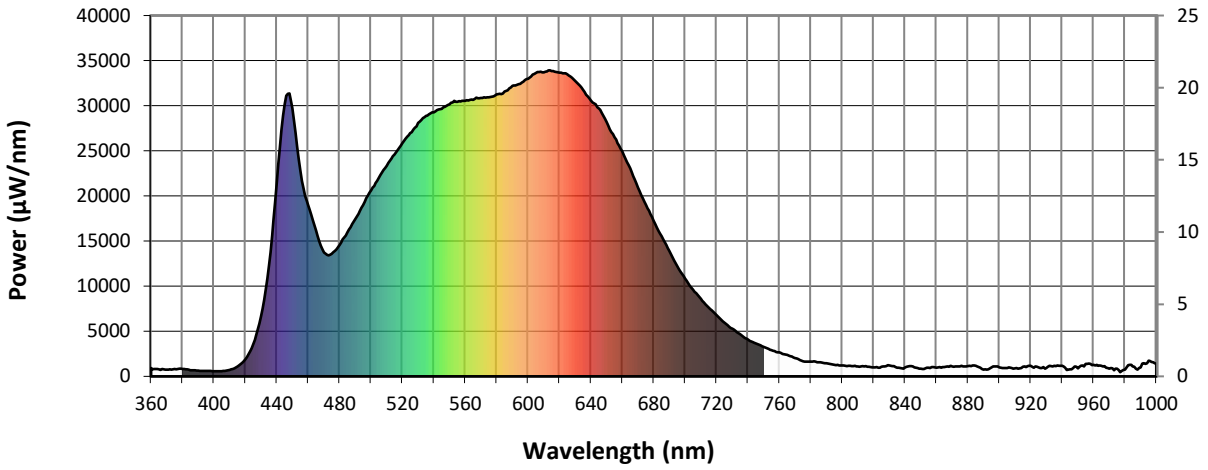

CCT = 3952K
CIE x = 0.3848
CIE y = 0.3864
Duv = 0.0032

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



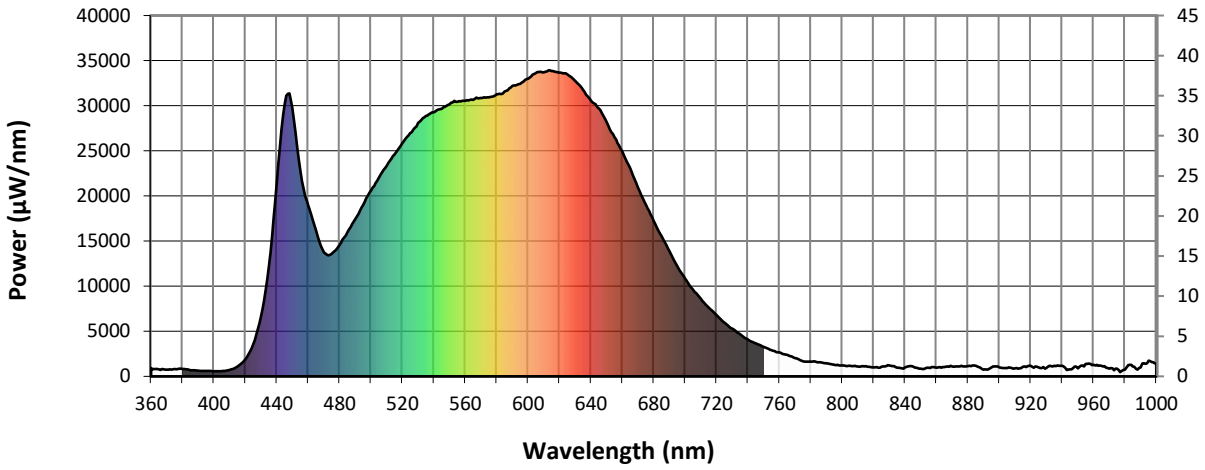

######

| 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



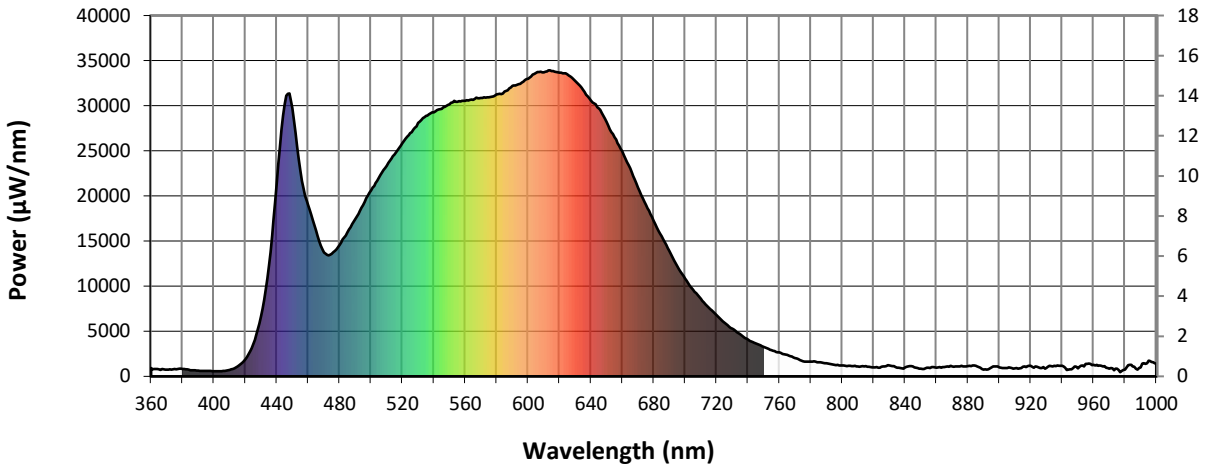

**Scotopic Lumens: 3705.7** **S/P: 1.75**

| 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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Peachtree City, GA 30269

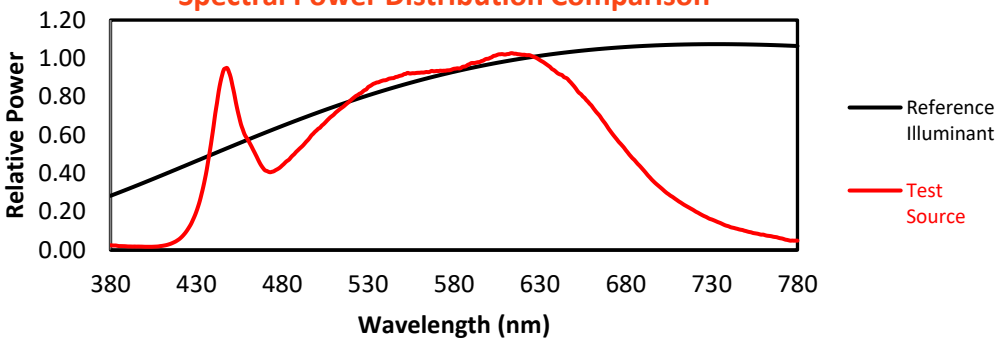
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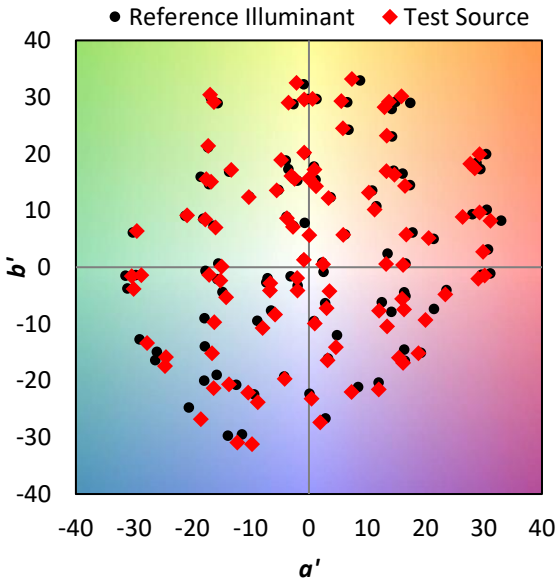
## Summary

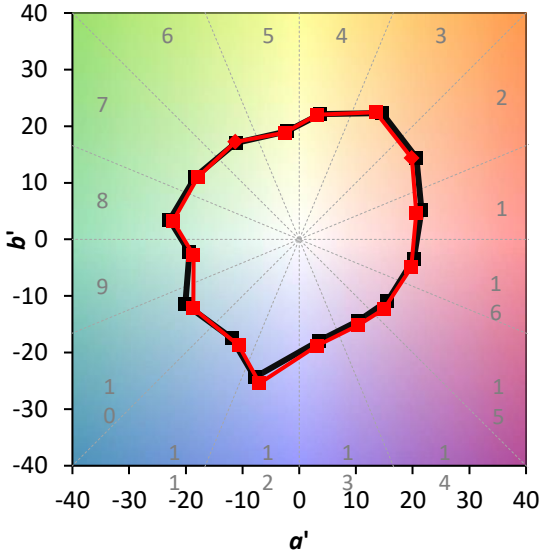
$R_f$ = 92.2
$R_g$ = 98.9
CIE $R_a$ = 92.2
$R_9$ = 63.3

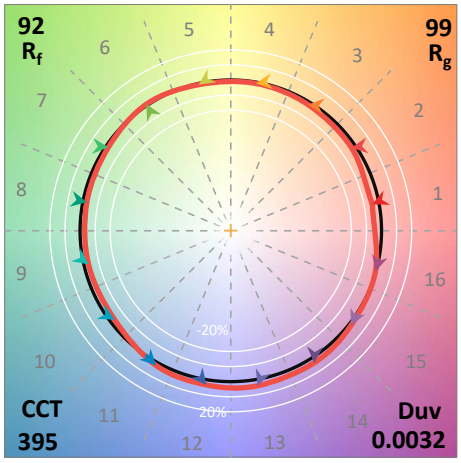
## Spectral Power Distribution Comparison

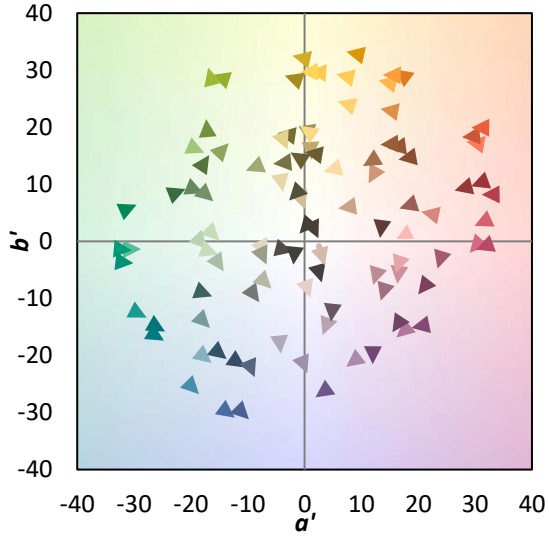



## Color Vector Graphics



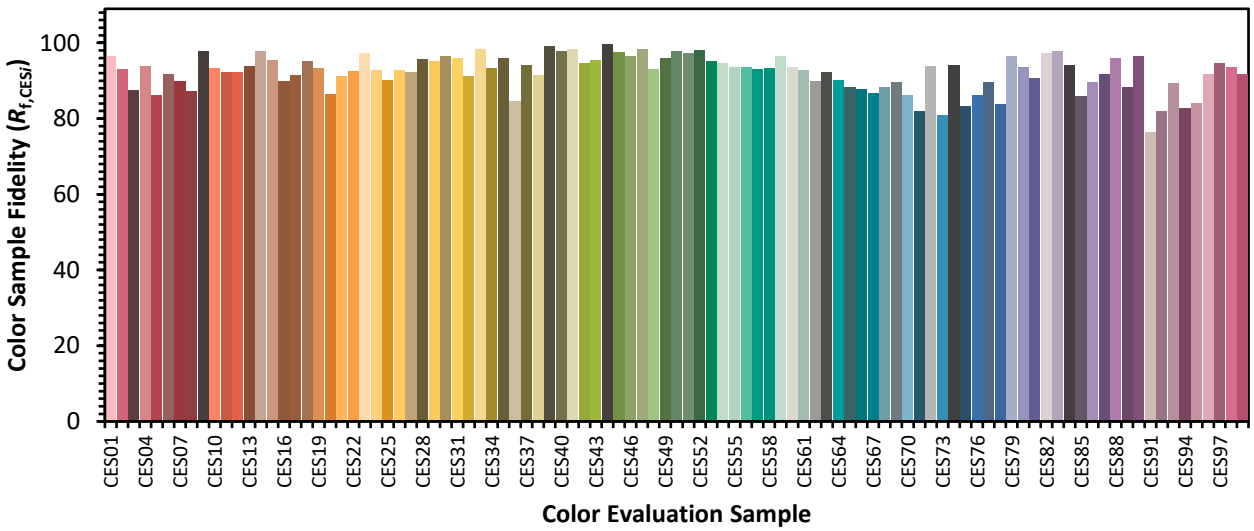
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**Individual Sample Fidelity Index ($R_{f,i}$)**

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

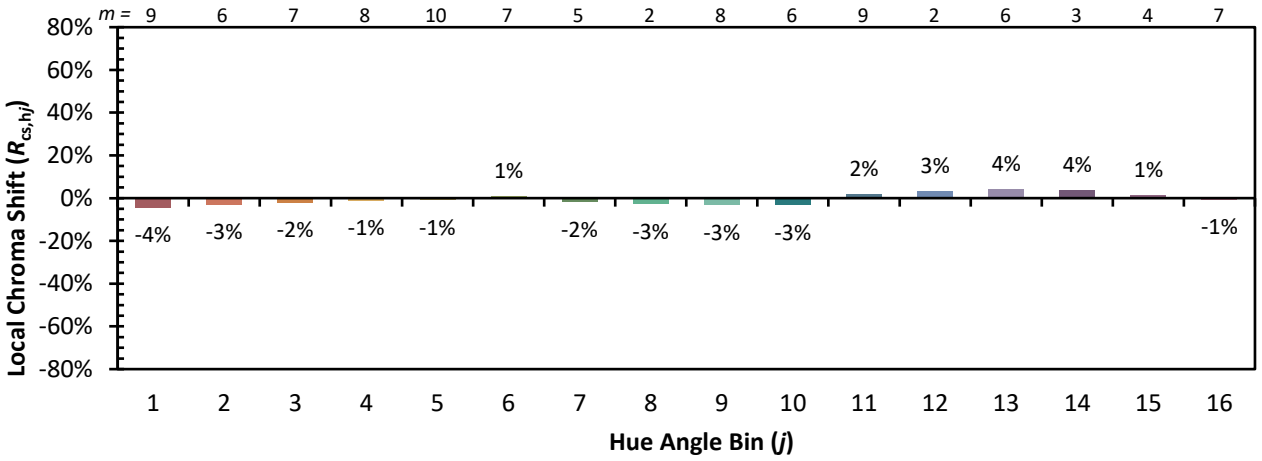


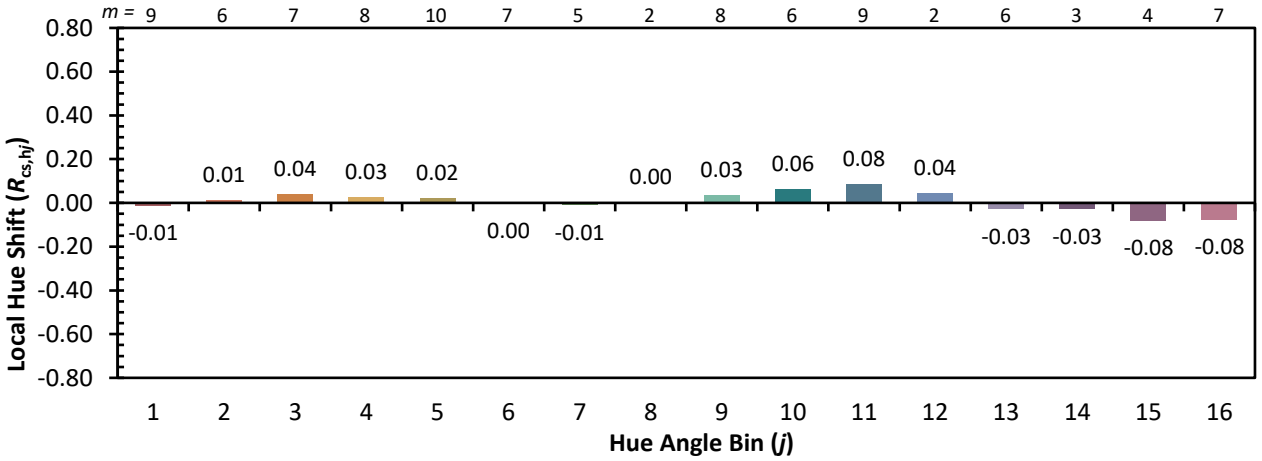
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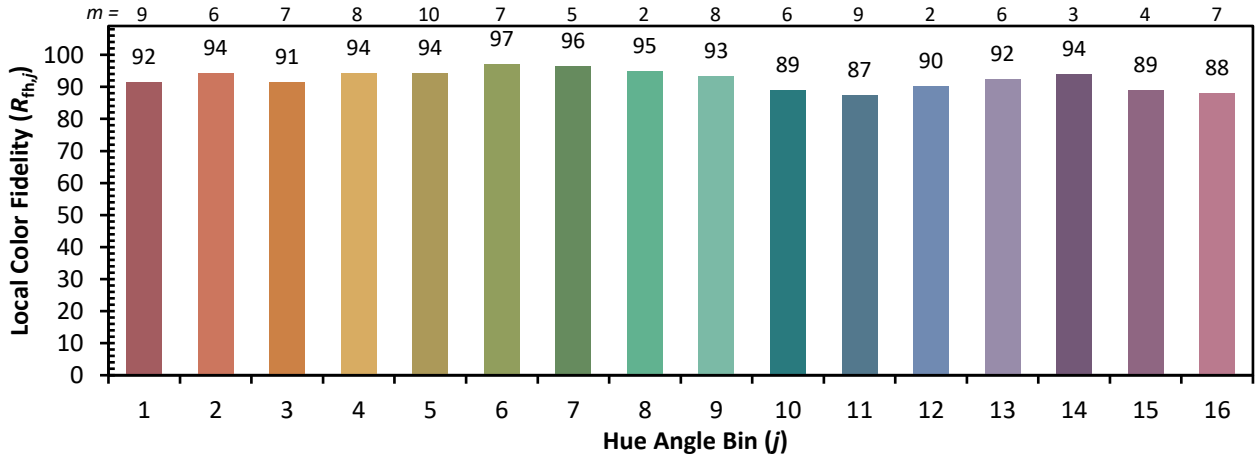
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## Color Rendition by Hue-Angle Bin



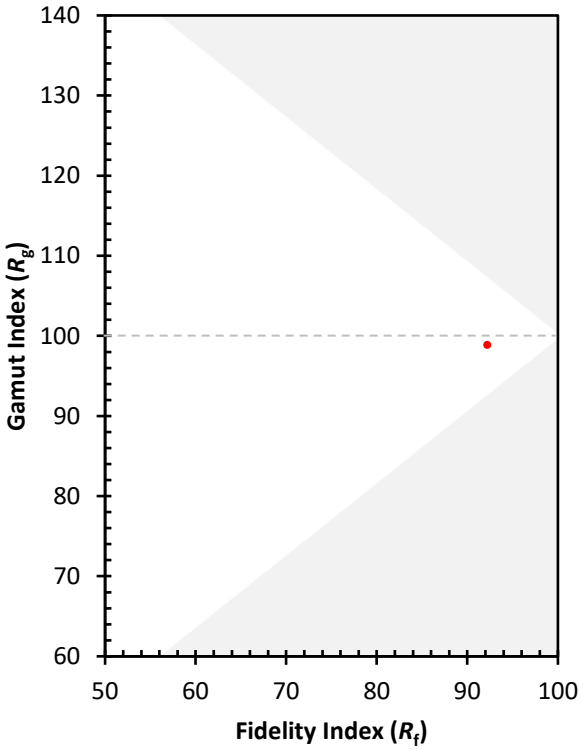



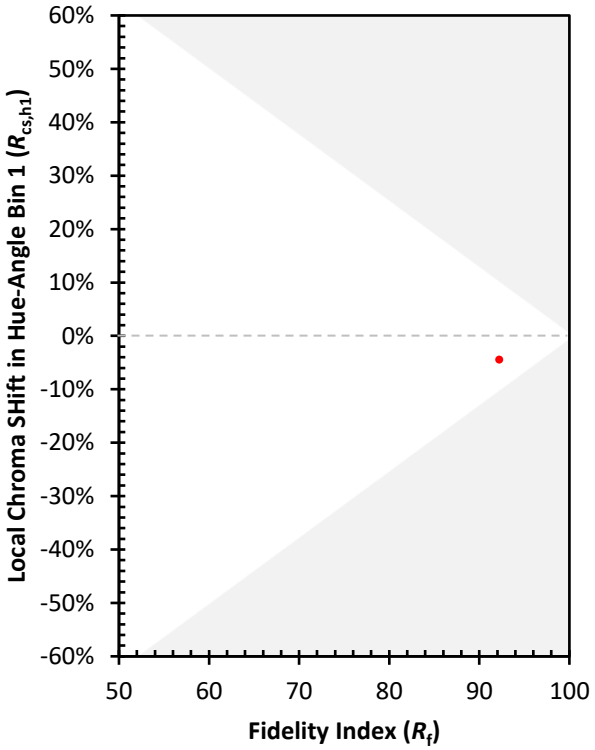
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### Measure Comparisons




(END OF REPORT)