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: P1501500

Luminaire Tested: GSS-SB2D-827-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: | P1501500 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB2D-827-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (52) 2700K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 16457.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 112.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

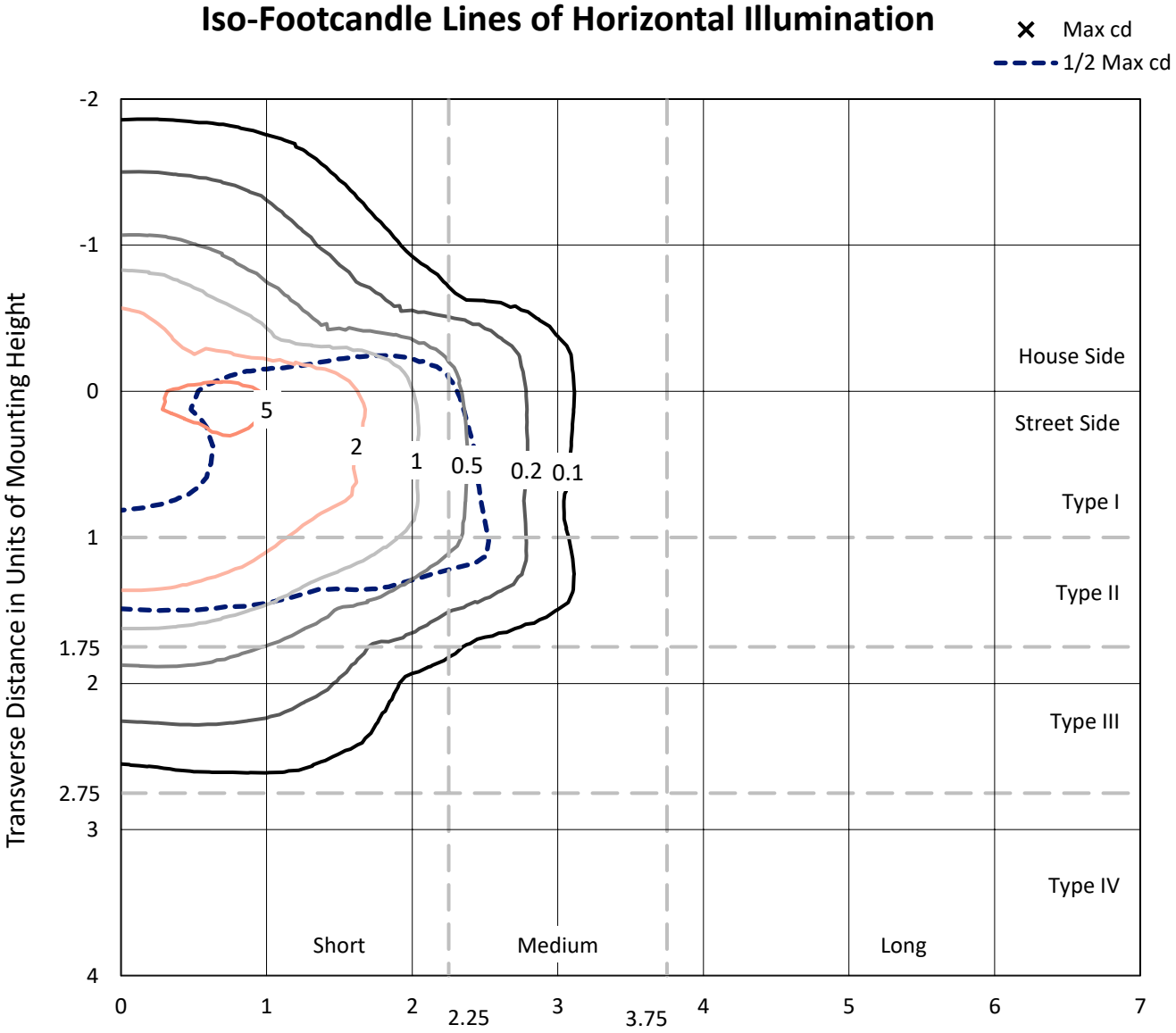
| | |
|---|---|
| Input Watts (W): | 147 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 3.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



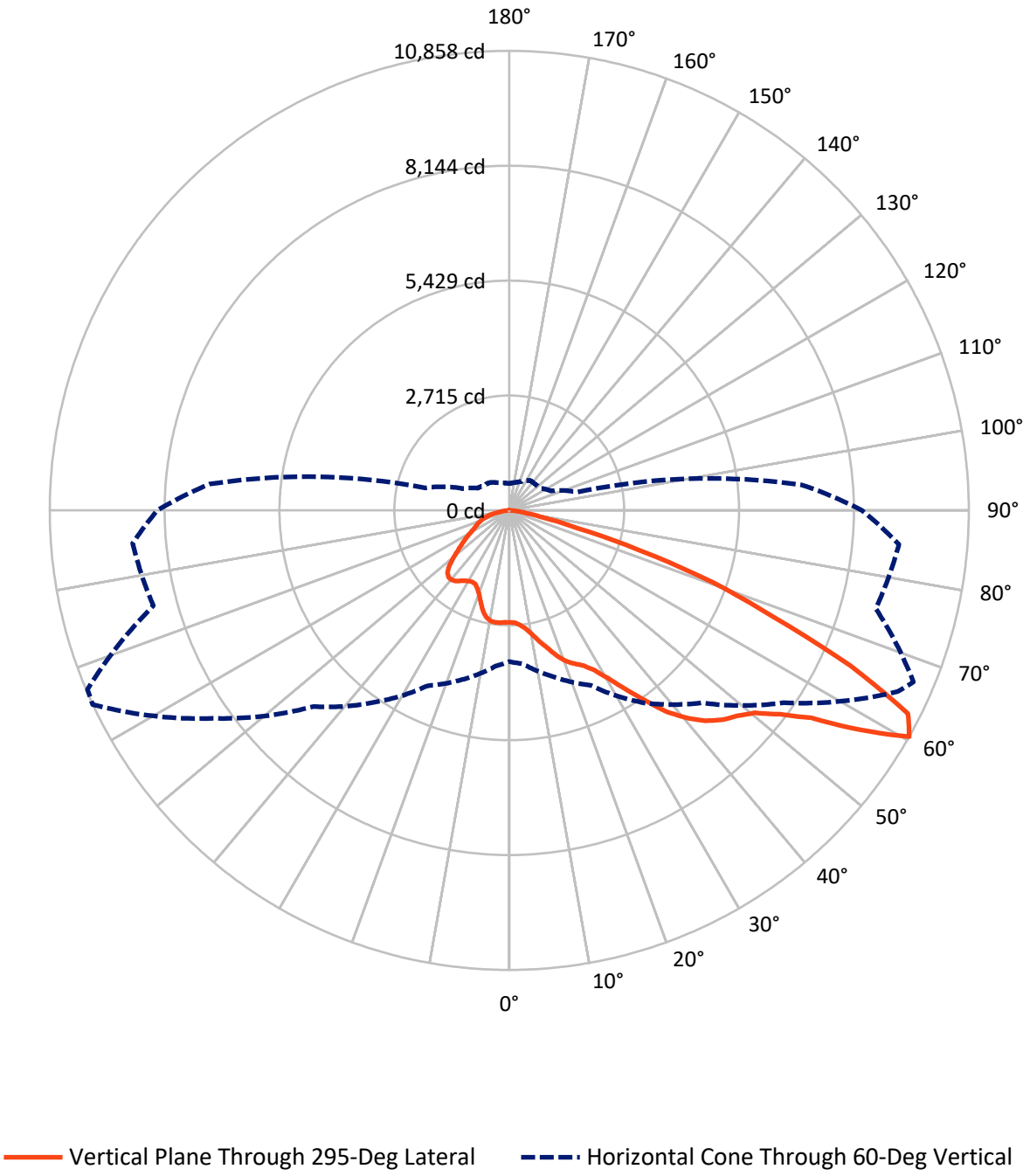

Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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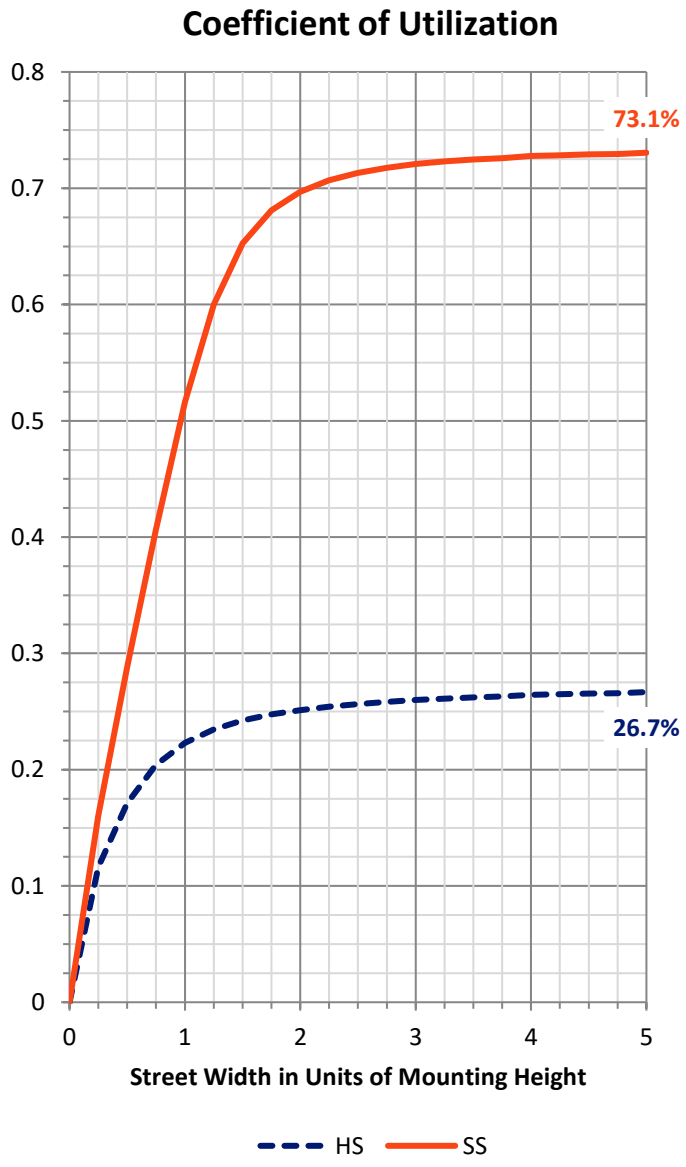
REPORT NUMBER: P1501500
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 4425.6 | 0.0 | 4425.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 12031.9 | 0.0 | 12031.9 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 16457.6 | 0.0 | 16457.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 249.0 | 1.5 |
| 10°-20° | 715.7 | 4.3 |
| 20°-30° | 1355.7 | 8.2 |
| 30°-40° | 2390.0 | 14.5 |
| 40°-50° | 3534.5 | 21.5 |
| 50°-60° | 4150.5 | 25.2 |
| 60°-70° | 3007.2 | 18.3 |
| 70°-80° | 927.4 | 5.6 |
| 80°-90° | 127.7 | 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° | 16457.6 | 100.0 |
| 0°-180° | 16457.6 | 100.0 |



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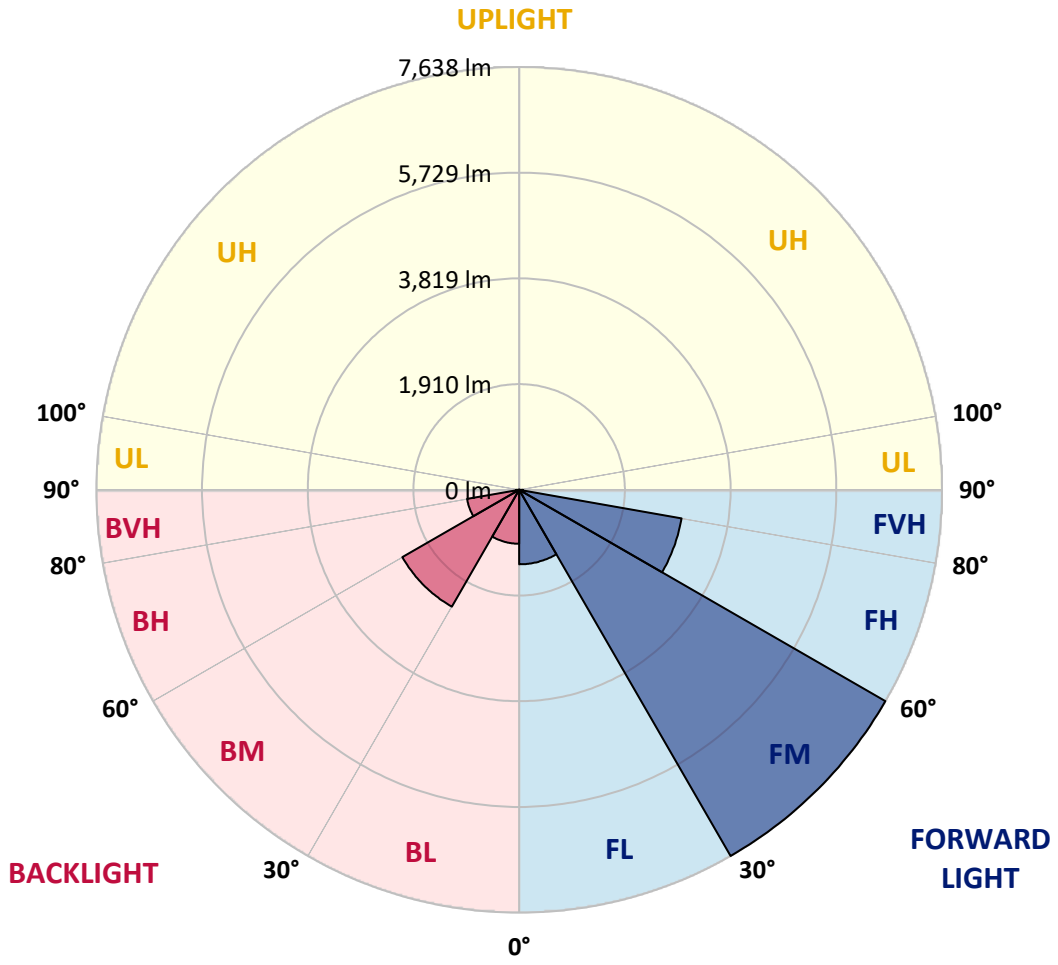
Scaled Data Report

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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°) | 1345.7 | 8.2 | | | |
| FM | (30°-60°) | 7638.1 | 46.4 | | | |
| FH | (60°-80°) | 2979.3 | 18.1 | | | G2/5000 |
| FVH | (80°-90°) | 68.9 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 974.7 | 5.9 | B2/1000 | | |
| BM | (30°-60°) | 2436.9 | 14.8 | B2/2500 | | |
| BH | (60°-80°) | 955.3 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 58.8 | 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° | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 |
| 2.5° | 2700.5 | 2708.0 | 2696.7 | 2704.2 | 2704.2 | 2693.0 | 2689.2 | 2674.2 | 2681.7 | 2677.9 | 2674.2 |
| 5° | 2764.2 | 2768.0 | 2760.5 | 2771.7 | 2771.7 | 2775.5 | 2771.7 | 2753.0 | 2753.0 | 2753.0 | 2745.5 |
| 7.5° | 2745.5 | 2745.5 | 2749.2 | 2786.7 | 2824.2 | 2873.0 | 2873.0 | 2865.5 | 2873.0 | 2869.2 | 2835.5 |
| 10° | 2587.9 | 2602.9 | 2636.7 | 2730.5 | 2820.5 | 2925.5 | 2996.8 | 3019.3 | 3019.3 | 3023.0 | 2966.7 |
| 12.5° | 2306.6 | 2317.9 | 2396.7 | 2539.2 | 2726.7 | 2918.0 | 3090.5 | 3203.0 | 3214.3 | 3233.0 | 3158.0 |
| 15° | 2055.3 | 2062.8 | 2119.1 | 2265.4 | 2479.2 | 2816.7 | 3143.0 | 3375.6 | 3413.1 | 3491.8 | 3379.3 |
| 17.5° | 2077.8 | 2074.1 | 2089.1 | 2145.4 | 2299.1 | 2651.7 | 3131.8 | 3578.1 | 3645.6 | 3784.4 | 3686.9 |
| 20° | 2212.9 | 2212.9 | 2224.1 | 2235.4 | 2291.6 | 2531.7 | 3049.3 | 3743.1 | 3874.4 | 4144.4 | 4031.9 |
| 22.5° | 2426.7 | 2426.7 | 2422.9 | 2441.7 | 2441.7 | 2584.2 | 3053.0 | 3866.9 | 4061.9 | 4545.8 | 4437.0 |
| 25° | 2723.0 | 2708.0 | 2708.0 | 2715.5 | 2681.7 | 2783.0 | 3146.8 | 3994.4 | 4249.5 | 5022.1 | 4928.3 |
| 27.5° | 3056.8 | 3068.0 | 3060.5 | 3034.3 | 2989.3 | 3068.0 | 3371.8 | 4193.2 | 4459.5 | 5524.7 | 5487.2 |
| 30° | 3420.6 | 3424.3 | 3431.8 | 3416.8 | 3379.3 | 3435.6 | 3724.4 | 4493.3 | 4737.0 | 6049.8 | 6132.3 |
| 32.5° | 3776.9 | 3829.4 | 3810.6 | 3773.1 | 3788.1 | 3889.4 | 4159.4 | 4898.3 | 5149.6 | 6537.3 | 6829.9 |
| 35° | 4230.7 | 4249.5 | 4324.5 | 4185.7 | 4189.5 | 4362.0 | 4714.5 | 5430.9 | 5674.7 | 7043.7 | 7527.5 |
| 37.5° | 4890.8 | 4924.6 | 4890.8 | 4673.3 | 4639.5 | 4879.6 | 5254.6 | 5956.0 | 6132.3 | 7426.2 | 8176.4 |
| 40° | 5539.7 | 5580.9 | 5637.2 | 5382.2 | 5168.4 | 5367.2 | 5764.7 | 6357.3 | 6541.1 | 7636.3 | 8607.7 |
| 42.5° | 6076.0 | 6143.5 | 6083.5 | 6008.5 | 5813.5 | 5851.0 | 6121.0 | 6668.6 | 6852.4 | 7902.6 | 9042.8 |
| 45° | 6529.8 | 6541.1 | 6567.4 | 6514.8 | 6417.3 | 6383.6 | 6424.8 | 6942.4 | 7144.9 | 8022.6 | 9256.6 |
| 47.5° | 6717.4 | 6766.1 | 6788.6 | 6878.7 | 6979.9 | 6912.4 | 6683.6 | 7069.9 | 7253.7 | 8015.1 | 9324.1 |
| 50° | 6616.1 | 6664.9 | 6784.9 | 6998.7 | 7242.5 | 7362.5 | 6987.4 | 7246.2 | 7452.5 | 8150.1 | 9462.8 |
| 52.5° | 6349.8 | 6402.3 | 6597.4 | 6841.1 | 7250.0 | 7523.8 | 7415.0 | 7613.8 | 7812.6 | 8390.2 | 9695.4 |
| 55° | 5704.7 | 5783.5 | 6057.3 | 6462.3 | 7024.9 | 7437.5 | 7865.1 | 8153.9 | 8371.4 | 8679.0 | 9935.4 |
| 57.5° | 4767.1 | 4849.6 | 5157.1 | 5764.7 | 6608.6 | 7081.2 | 7996.3 | 9166.5 | 9264.1 | 9024.0 | 9957.9 |
| 60° | *3570.6* | *3638.1* | *4073.2* | *4560.8* | *5550.9* | *6428.6* | *7921.3* | *10126.7* | *10374.2* | *8964.0* | *9241.6* |
| 62.5° | 2828.0 | 2910.5 | 3296.8 | 3521.8 | 4230.7 | 5310.9 | 7658.8 | 10393.0 | 10606.8 | 8468.9 | 8243.9 |
| 65° | 2209.1 | 2265.4 | 2625.4 | 2948.0 | 3120.5 | 3626.9 | 6563.6 | 9091.5 | 9282.8 | 7662.5 | 6803.6 |
| 67.5° | 1459.0 | 1545.3 | 1972.8 | 2415.4 | 2505.4 | 2306.6 | 4515.8 | 6994.9 | 7084.9 | 6091.0 | 5115.9 |
| 70° | 1046.4 | 1087.7 | 1406.5 | 1879.1 | 2014.1 | 1545.3 | 2460.4 | 5295.9 | 5322.1 | 4088.2 | 3446.8 |
| 72.5° | 712.6 | 720.1 | 956.4 | 1440.2 | 1605.3 | 1121.4 | 1354.0 | 3488.1 | 3398.1 | 2017.8 | 1972.8 |
| 75° | 483.8 | 491.3 | 611.4 | 960.2 | 1136.4 | 780.1 | 881.4 | 1901.6 | 1826.6 | 1113.9 | 1196.5 |
| 77.5° | 326.3 | 333.8 | 420.1 | 645.1 | 757.6 | 540.1 | 645.1 | 1005.2 | 986.4 | 738.9 | 641.4 |
| 80° | 247.5 | 258.8 | 311.3 | 412.6 | 528.8 | 315.1 | 367.6 | 476.3 | 483.8 | 393.8 | 326.3 |
| 82.5° | 138.8 | 153.8 | 187.5 | 210.0 | 341.3 | 176.3 | 176.3 | 285.0 | 273.8 | 243.8 | 176.3 |
| 85° | 60.0 | 63.8 | 75.0 | 78.8 | 138.8 | 75.0 | 63.8 | 123.8 | 127.5 | 120.0 | 56.3 |
| 87.5° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 |
| 2.5° | 2655.4 | 2677.9 | 2655.4 | 2644.2 | 2644.2 | 2625.4 | 2617.9 | 2617.9 | 2591.7 | 2602.9 | 2595.4 |
| 5° | 2715.5 | 2723.0 | 2696.7 | 2662.9 | 2617.9 | 2580.4 | 2527.9 | 2460.4 | 2419.2 | 2415.4 | 2419.2 |
| 7.5° | 2809.2 | 2813.0 | 2741.7 | 2666.7 | 2554.2 | 2419.2 | 2257.9 | 2126.6 | 2010.3 | 1991.6 | 2014.1 |
| 10° | 2940.5 | 2933.0 | 2828.0 | 2651.7 | 2415.4 | 2130.4 | 1882.8 | 1762.8 | 1695.3 | 1691.5 | 1687.8 |
| 12.5° | 3116.8 | 3068.0 | 2906.7 | 2587.9 | 2175.4 | 1845.3 | 1717.8 | 1710.3 | 1729.0 | 1744.0 | 1747.8 |
| 15° | 3319.3 | 3255.5 | 2970.5 | 2464.2 | 1931.6 | 1740.3 | 1747.8 | 1811.6 | 1834.1 | 1849.1 | 1849.1 |
| 17.5° | 3570.6 | 3488.1 | 3041.8 | 2287.9 | 1807.8 | 1762.8 | 1815.3 | 1875.3 | 1912.8 | 1927.8 | 1924.1 |
| 20° | 3904.4 | 3731.9 | 3098.0 | 2119.1 | 1774.0 | 1800.3 | 1845.3 | 1905.3 | 1942.8 | 1961.6 | 1961.6 |
| 22.5° | 4238.2 | 4024.4 | 3109.3 | 2002.8 | 1774.0 | 1804.1 | 1845.3 | 1905.3 | 1946.6 | 1965.3 | 1961.6 |
| 25° | 4692.0 | 4399.5 | 3113.0 | 1920.3 | 1777.8 | 1785.3 | 1822.8 | 1875.3 | 1935.3 | 1954.1 | 1961.6 |
| 27.5° | 5175.9 | 4812.1 | 3131.8 | 1901.6 | 1762.8 | 1759.0 | 1785.3 | 1834.1 | 1894.1 | 1942.8 | 1946.6 |
| 30° | 5776.0 | 5277.1 | 3139.3 | 1920.3 | 1766.5 | 1717.8 | 1736.5 | 1785.3 | 1849.1 | 1897.8 | 1912.8 |
| 32.5° | 6364.8 | 5708.5 | 3124.3 | 1961.6 | 1774.0 | 1691.5 | 1695.3 | 1725.3 | 1792.8 | 1826.6 | 1852.8 |
| 35° | 6987.4 | 6166.0 | 3098.0 | 2017.8 | 1777.8 | 1680.3 | 1646.5 | 1661.5 | 1706.5 | 1710.3 | 1721.5 |
| 37.5° | 7475.0 | 6507.3 | 3019.3 | 2092.9 | 1785.3 | 1639.0 | 1571.5 | 1560.3 | 1541.5 | 1504.0 | 1511.5 |
| 40° | 7876.3 | 6736.1 | 2888.0 | 2130.4 | 1766.5 | 1590.3 | 1477.7 | 1425.2 | 1354.0 | 1297.7 | 1309.0 |
| 42.5° | 8165.1 | 6889.9 | 2730.5 | 2137.9 | 1736.5 | 1507.8 | 1369.0 | 1279.0 | 1200.2 | 1140.2 | 1143.9 |
| 45° | 8292.6 | 6874.9 | 2561.7 | 2081.6 | 1665.3 | 1406.5 | 1267.7 | 1181.4 | 1095.2 | 1031.4 | 1023.9 |
| 47.5° | 8296.4 | 6728.6 | 2329.1 | 1946.6 | 1545.3 | 1290.2 | 1173.9 | 1080.2 | 1008.9 | 963.9 | 960.2 |
| 50° | 8326.4 | 6646.1 | 2111.6 | 1751.5 | 1387.7 | 1166.4 | 1091.4 | 997.7 | 956.4 | 892.6 | 873.9 |
| 52.5° | 8513.9 | 6781.1 | 1961.6 | 1537.8 | 1241.5 | 1076.4 | 1020.2 | 937.7 | 870.1 | 828.9 | 825.1 |
| 55° | 8817.7 | 7013.7 | 1879.1 | 1376.5 | 1102.7 | 990.2 | 952.7 | 881.4 | 821.4 | 780.1 | 768.9 |
| 57.5° | 8855.2 | 7133.7 | 1781.5 | 1226.5 | 990.2 | 922.7 | 907.7 | 828.9 | 742.6 | 712.6 | 701.4 |
| 60° | *8330.1* | *6931.2* | *1661.5* | *1087.7* | *907.7* | *870.1* | *862.6* | *757.6* | *686.4* | *648.9* | *633.9* |
| 62.5° | 7613.8 | 6424.8 | 1477.7 | 960.2 | 843.9 | 817.6 | 787.6 | 705.1 | 615.1 | 573.8 | 562.6 |
| 65° | 6222.3 | 5400.9 | 1256.5 | 873.9 | 780.1 | 750.1 | 742.6 | 630.1 | 570.1 | 547.6 | 543.8 |
| 67.5° | 4714.5 | 4339.5 | 1106.4 | 810.1 | 712.6 | 701.4 | 675.1 | 637.6 | 611.4 | 585.1 | 577.6 |
| 70° | 3334.3 | 3131.8 | 941.4 | 727.6 | 645.1 | 626.4 | 735.1 | 693.9 | 600.1 | 566.3 | 562.6 |
| 72.5° | 2021.6 | 1965.3 | 813.9 | 652.6 | 555.1 | 585.1 | 678.9 | 626.4 | 540.1 | 498.8 | 483.8 |
| 75° | 1275.2 | 1166.4 | 682.6 | 555.1 | 442.6 | 476.3 | 592.6 | 558.8 | 465.1 | 423.8 | 412.6 |
| 77.5° | 693.9 | 645.1 | 513.8 | 453.8 | 348.8 | 386.3 | 517.6 | 461.3 | 371.3 | 405.1 | 360.1 |
| 80° | 303.8 | 337.6 | 341.3 | 262.5 | 232.5 | 285.0 | 371.3 | 360.1 | 285.0 | 288.8 | 240.0 |
| 82.5° | 146.3 | 191.3 | 221.3 | 180.0 | 131.3 | 168.8 | 247.5 | 206.3 | 191.3 | 180.0 | 172.5 |
| 85° | 45.0 | 71.3 | 97.5 | 86.3 | 60.0 | 71.3 | 116.3 | 112.5 | 135.0 | 116.3 | 108.8 |
| 87.5° | 15.0 | 15.0 | 11.3 | 11.3 | 11.3 | 15.0 | 18.8 | 11.3 | 3.8 | 3.8 | 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° | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 |
| 2.5° | 2591.7 | 2595.4 | 2595.4 | 2599.2 | 2599.2 | 2610.4 | 2625.4 | 2640.4 | 2629.2 | 2644.2 | 2647.9 |
| 5° | 2411.7 | 2430.4 | 2445.4 | 2501.7 | 2546.7 | 2584.2 | 2625.4 | 2662.9 | 2674.2 | 2681.7 | 2700.5 |
| 7.5° | 1987.8 | 2040.3 | 2137.9 | 2265.4 | 2407.9 | 2546.7 | 2640.4 | 2738.0 | 2753.0 | 2771.7 | 2798.0 |
| 10° | 1691.5 | 1714.0 | 1781.5 | 1912.8 | 2167.9 | 2441.7 | 2670.4 | 2824.2 | 2888.0 | 2925.5 | 2951.7 |
| 12.5° | 1740.3 | 1725.3 | 1714.0 | 1732.8 | 1897.8 | 2250.4 | 2651.7 | 2948.0 | 3068.0 | 3109.3 | 3143.0 |
| 15° | 1856.6 | 1841.6 | 1800.3 | 1747.8 | 1766.5 | 2047.8 | 2587.9 | 3064.3 | 3255.5 | 3323.1 | 3394.3 |
| 17.5° | 1924.1 | 1909.1 | 1875.3 | 1819.1 | 1770.3 | 1879.1 | 2467.9 | 3169.3 | 3551.8 | 3634.4 | 3735.6 |
| 20° | 1961.6 | 1946.6 | 1912.8 | 1856.6 | 1800.3 | 1815.3 | 2314.1 | 3300.6 | 3889.4 | 4020.7 | 4170.7 |
| 22.5° | 1969.1 | 1950.3 | 1912.8 | 1856.6 | 1822.8 | 1811.6 | 2167.9 | 3379.3 | 4253.2 | 4455.7 | 4628.3 |
| 25° | 1965.3 | 1931.6 | 1882.8 | 1841.6 | 1822.8 | 1819.1 | 2066.6 | 3424.3 | 4647.0 | 4969.6 | 5164.6 |
| 27.5° | 1939.1 | 1897.8 | 1849.1 | 1819.1 | 1811.6 | 1834.1 | 2021.6 | 3476.8 | 5108.4 | 5520.9 | 5832.2 |
| 30° | 1909.1 | 1849.1 | 1789.1 | 1777.8 | 1796.6 | 1867.8 | 2059.1 | 3495.6 | 5592.2 | 6121.0 | 6439.8 |
| 32.5° | 1830.3 | 1785.3 | 1725.3 | 1721.5 | 1766.5 | 1894.1 | 2145.4 | 3469.3 | 6019.8 | 6721.1 | 7122.4 |
| 35° | 1717.8 | 1691.5 | 1657.8 | 1669.0 | 1740.3 | 1916.6 | 2205.4 | 3386.8 | 6409.8 | 7280.0 | 7748.8 |
| 37.5° | 1519.0 | 1537.8 | 1556.5 | 1582.8 | 1672.8 | 1912.8 | 2231.6 | 3255.5 | 6732.4 | 7726.3 | 8326.4 |
| 40° | 1297.7 | 1361.5 | 1421.5 | 1489.0 | 1609.0 | 1882.8 | 2239.1 | 3094.3 | 6919.9 | 8063.9 | 8840.2 |
| 42.5° | 1158.9 | 1219.0 | 1294.0 | 1391.5 | 1522.8 | 1815.3 | 2231.6 | 2914.2 | 6979.9 | 8296.4 | 9166.5 |
| 45° | 1031.4 | 1102.7 | 1196.5 | 1297.7 | 1447.7 | 1717.8 | 2164.1 | 2719.2 | 7009.9 | 8405.2 | 9305.3 |
| 47.5° | 963.9 | 1005.2 | 1091.4 | 1192.7 | 1350.2 | 1597.8 | 2032.8 | 2576.7 | 6964.9 | 8427.7 | 9474.1 |
| 50° | 885.1 | 941.4 | 997.7 | 1095.2 | 1249.0 | 1447.7 | 1875.3 | 2494.2 | 7039.9 | 8649.0 | 9740.4 |
| 52.5° | 825.1 | 855.1 | 915.2 | 1005.2 | 1117.7 | 1309.0 | 1725.3 | 2426.7 | 7246.2 | 8874.0 | 10017.9 |
| 55° | 780.1 | 813.9 | 851.4 | 926.4 | 1012.7 | 1170.2 | 1571.5 | 2325.4 | 7486.3 | 9114.0 | 10295.5 |
| 57.5° | 708.9 | 731.4 | 783.9 | 862.6 | 918.9 | 1035.2 | 1391.5 | 2205.4 | 7467.5 | 8926.5 | 9815.4 |
| 60° | *645.1* | *667.6* | *723.9* | *802.6* | *836.4* | *915.2* | *1215.2* | *2051.6* | *7107.4* | *8315.1* | *8930.2* |
| 62.5° | 573.8 | 600.1 | 667.6 | 723.9 | 753.9 | 813.9 | 1031.4 | 1770.3 | 6357.3 | 7396.2 | 7895.1 |
| 65° | 543.8 | 558.8 | 603.9 | 671.4 | 667.6 | 723.9 | 870.1 | 1391.5 | 5115.9 | 5652.2 | 6106.0 |
| 67.5° | 577.6 | 600.1 | 592.6 | 611.4 | 600.1 | 630.1 | 780.1 | 1117.7 | 4020.7 | 4257.0 | 4519.5 |
| 70° | 570.1 | 622.6 | 648.9 | 611.4 | 525.1 | 558.8 | 675.1 | 892.6 | 2876.7 | 2854.2 | 2843.0 |
| 72.5° | 498.8 | 551.3 | 626.4 | 663.9 | 513.8 | 465.1 | 585.1 | 772.6 | 1845.3 | 1837.8 | 1661.5 |
| 75° | 423.8 | 461.3 | 551.3 | 600.1 | 442.6 | 375.1 | 502.6 | 656.4 | 1102.7 | 1117.7 | 997.7 |
| 77.5° | 390.1 | 371.3 | 461.3 | 528.8 | 360.1 | 288.8 | 405.1 | 495.1 | 607.6 | 615.1 | 570.1 |
| 80° | 281.3 | 270.0 | 345.1 | 386.3 | 273.8 | 206.3 | 228.8 | 307.6 | 326.3 | 292.5 | 303.8 |
| 82.5° | 180.0 | 183.8 | 206.3 | 247.5 | 168.8 | 112.5 | 157.5 | 206.3 | 176.3 | 142.5 | 168.8 |
| 85° | 116.3 | 131.3 | 108.8 | 127.5 | 52.5 | 52.5 | 67.5 | 90.0 | 60.0 | 41.3 | 45.0 |
| 87.5° | 0.0 | 0.0 | 7.5 | 15.0 | 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: P1501500
CATALOG NUMBER: GSS-SB2D-827-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2647.9 | 2647.9 | *2647.9* | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 | 2647.9 |
| 2.5° | 2659.2 | 2655.4 | *2655.4* | 2662.9 | 2681.7 | 2689.2 | 2700.5 | 2696.7 | 2708.0 | 2700.5 |
| 5° | 2711.7 | 2715.5 | *2726.7* | 2730.5 | 2741.7 | 2756.7 | 2760.5 | 2756.7 | 2764.2 | 2764.2 |
| 7.5° | 2816.7 | 2831.7 | *2824.2* | 2843.0 | 2828.0 | 2809.2 | 2779.2 | 2756.7 | 2738.0 | 2745.5 |
| 10° | 2993.0 | 2985.5 | *2981.8* | 2948.0 | 2880.5 | 2783.0 | 2704.2 | 2617.9 | 2602.9 | 2587.9 |
| 12.5° | 3188.0 | 3180.5 | *3180.5* | 3064.3 | 2873.0 | 2670.4 | 2490.4 | 2355.4 | 2310.4 | 2306.6 |
| 15° | 3461.8 | 3413.1 | *3368.1* | 3124.3 | 2741.7 | 2396.7 | 2186.6 | 2081.6 | 2055.3 | 2055.3 |
| 17.5° | 3803.1 | 3675.6 | *3600.6* | 3079.3 | 2527.9 | 2216.6 | 2092.9 | 2066.6 | 2059.1 | 2077.8 |
| 20° | 4227.0 | 3904.4 | *3795.6* | 2978.0 | 2449.2 | 2239.1 | 2179.1 | 2182.9 | 2186.6 | 2212.9 |
| 22.5° | 4692.0 | 4114.4 | *3934.4* | 2978.0 | 2527.9 | 2381.6 | 2351.6 | 2392.9 | 2404.2 | 2426.7 |
| 25° | 5209.6 | 4302.0 | *4058.2* | 3135.5 | 2760.5 | 2651.7 | 2614.2 | 2655.4 | 2685.5 | 2723.0 |
| 27.5° | 5791.0 | 4497.0 | *4272.0* | 3420.6 | 3060.5 | 2993.0 | 2951.7 | 2970.5 | 3011.8 | 3056.8 |
| 30° | 6312.3 | 4823.3 | *4598.3* | 3855.6 | 3469.3 | 3386.8 | 3315.6 | 3345.6 | 3390.6 | 3420.6 |
| 32.5° | 6773.6 | 5220.9 | *5029.6* | 4313.2 | 3938.2 | 3795.6 | 3716.9 | 3709.4 | 3799.4 | 3776.9 |
| 35° | 7197.5 | 5689.7 | *5505.9* | 4834.6 | 4414.5 | 4238.2 | 4133.2 | 4268.2 | 4208.2 | 4230.7 |
| 37.5° | 7531.3 | 6177.3 | *6031.0* | 5333.4 | 4909.6 | 4669.5 | 4605.8 | 4770.8 | 4864.6 | 4890.8 |
| 40° | 7805.1 | 6601.1 | *6447.3* | 5828.5 | 5363.4 | 5187.1 | 5288.4 | 5562.2 | 5550.9 | 5539.7 |
| 42.5° | 8015.1 | 6964.9 | *6796.1* | 6203.5 | 5798.5 | 5832.2 | 5911.0 | 6094.8 | 6139.8 | 6076.0 |
| 45° | 8108.9 | 7193.7 | *7058.7* | 6499.8 | 6293.6 | 6488.6 | 6522.3 | 6601.1 | 6571.1 | 6529.8 |
| 47.5° | 8217.6 | 7396.2 | *7253.7* | 6769.9 | 6829.9 | 7021.2 | 6953.7 | 6889.9 | 6781.1 | 6717.4 |
| 50° | 8401.4 | 7636.3 | *7516.3* | 7163.7 | 7381.2 | 7317.5 | 7054.9 | 6912.4 | 6691.1 | 6616.1 |
| 52.5° | 8750.2 | 8090.1 | *8000.1* | 7786.3 | 7640.0 | 7272.5 | 6953.7 | 6698.6 | 6451.1 | 6349.8 |
| 55° | 9061.5 | 8705.2 | *8652.7* | 8367.7 | 7561.3 | 7036.2 | 6608.6 | 6214.8 | 5791.0 | 5704.7 |
| 57.5° | 9241.6 | 9725.4 | *9785.4* | 8615.2 | 7201.2 | 6499.8 | 5869.7 | 5239.6 | 4838.3 | 4767.1 |
| 60° | *8705.2* | *10828.1* | *10858.1* | *8566.4* | *6552.4* | *5532.2* | *4572.0* | *4125.7* | *3694.4* | *3570.6* |
| 62.5° | 7966.3 | 10599.3 | *10573.0* | 8273.9 | 5217.1 | 4035.7 | 3473.1 | 3263.0 | 2929.2 | 2828.0 |
| 65° | 6848.6 | 8829.0 | *8859.0* | 7148.7 | 3469.3 | 2918.0 | 2918.0 | 2651.7 | 2280.4 | 2209.1 |
| 67.5° | 5580.9 | 6807.4 | *6739.9* | 4635.8 | 2130.4 | 2336.6 | 2449.2 | 2066.6 | 1545.3 | 1459.0 |
| 70° | 3626.9 | 5198.4 | *5104.6* | 2674.2 | 1339.0 | 1946.6 | 1927.8 | 1552.8 | 1106.4 | 1046.4 |
| 72.5° | 1560.3 | 3004.3 | *3195.5* | 1365.2 | 1008.9 | 1567.8 | 1537.8 | 1087.7 | 738.9 | 712.6 |
| 75° | 941.4 | 1511.5 | *1646.5* | 870.1 | 735.1 | 1181.4 | 1065.2 | 690.1 | 502.6 | 483.8 |
| 77.5° | 596.4 | 828.9 | *821.4* | 652.6 | 551.3 | 798.9 | 716.4 | 476.3 | 341.3 | 326.3 |
| 80° | 345.1 | 408.8 | *423.8* | 408.8 | 371.3 | 570.1 | 457.6 | 345.1 | 266.3 | 247.5 |
| 82.5° | 221.3 | 255.0 | *258.8* | 198.8 | 206.3 | 367.6 | 247.5 | 202.5 | 153.8 | 138.8 |
| 85° | 97.5 | 108.8 | *105.0* | 67.5 | 67.5 | 150.0 | 86.3 | 82.5 | 60.0 | 60.0 |
| 87.5° | 3.8 | 7.5 | *3.8* | 3.8 | 3.8 | 15.0 | 7.5 | 11.3 | 11.3 | 11.3 |
| 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-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

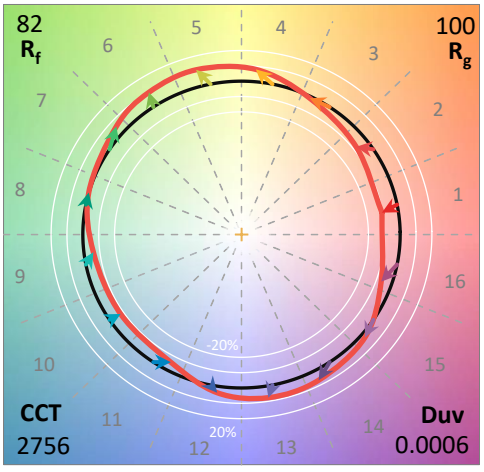
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-8 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-827-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2756 |
| CIE u': | 0.2599 |
| CIE v': | 0.5271 |
| Duv: | 0.0006 |
| CIE x: | 0.4563 |
| CIE y: | 0.4112 |
| CIE z: | 0.1325 |
| Peak Wavelength (nm): | 609 |
| Dominant Wavelength (nm): | 583 |
| Purity: | 60.41121 |
| Rf: | 82.2 |
| Rg: | 99.9 |

| | |
|---|---|
| CRI (Ra): | 82.9 |
| R1: | 81.6 |
| R2: | 88.8 |
| R3: | 96.0 |
| R4: | 83.4 |
| R5: | 81.4 |
| R6: | 87.0 |
| R7: | 84.0 |
| R8: | 60.8 |
| R9: | 10.8 |
| R10: | 74.8 |
| R11: | 84.3 |
| R12: | 72.1 |
| R13: | 82.9 |
| R14: | 97.3 |
| R15: | 73.7 |




## Test Conditions

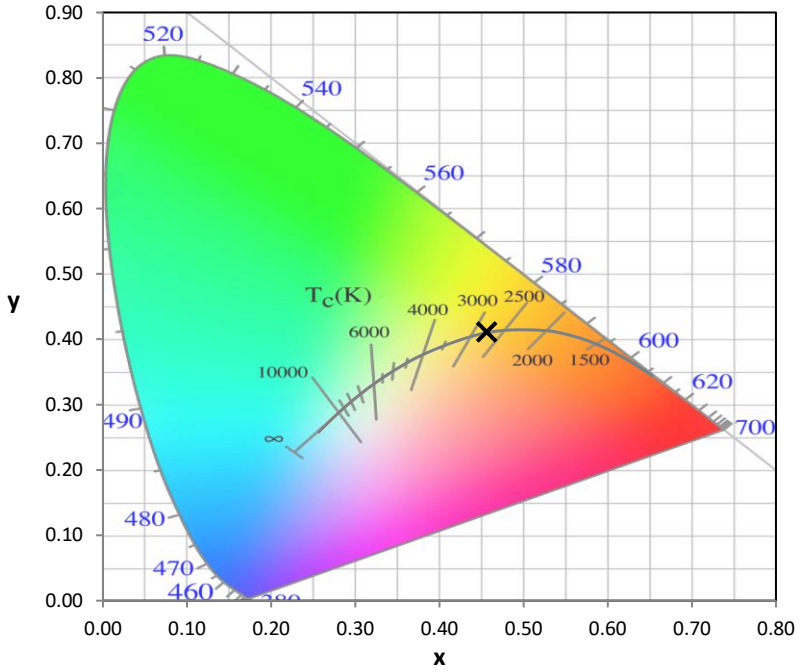
| | |
|---|---|
| Stabilization Time: | 29M |
| Operation Time: | 1H 29M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-8

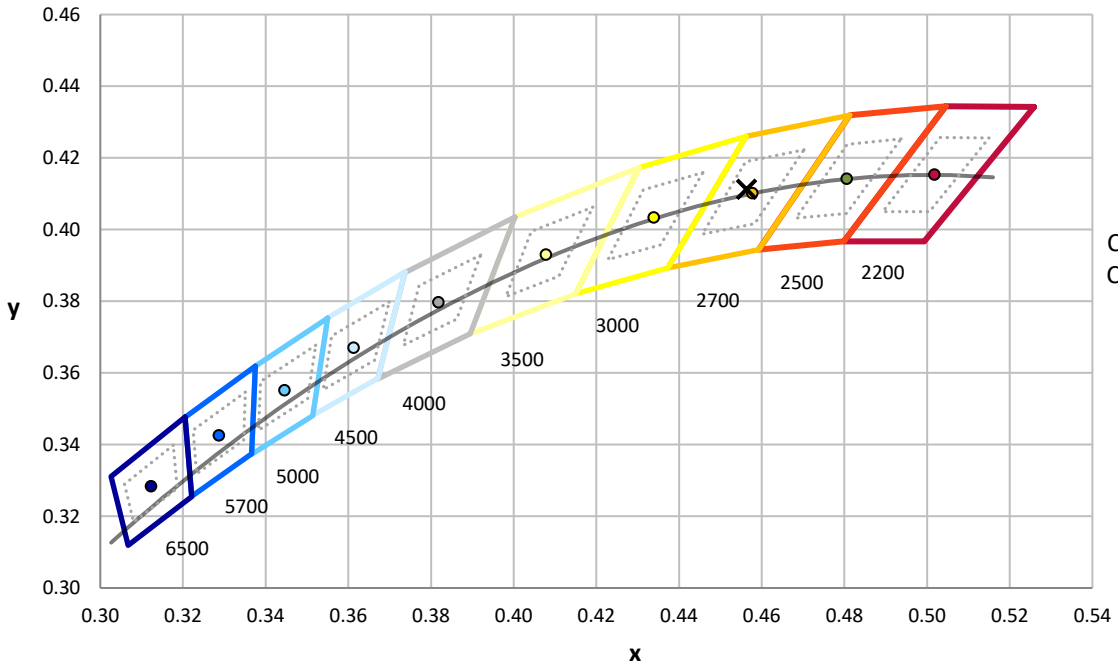
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-8

## CIE 1931 Chromaticity Diagram




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

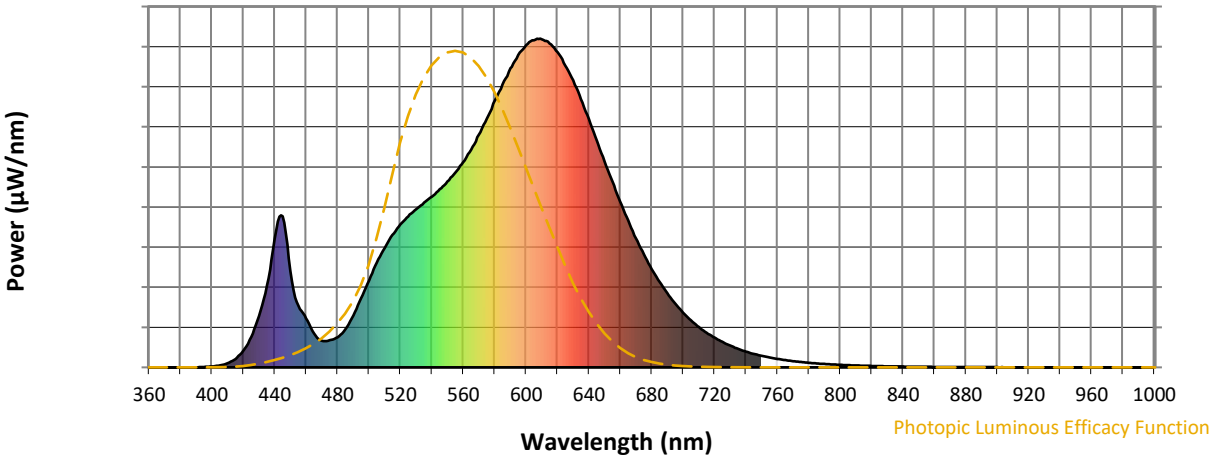



CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

## Photopic Flux vs. Wavelength

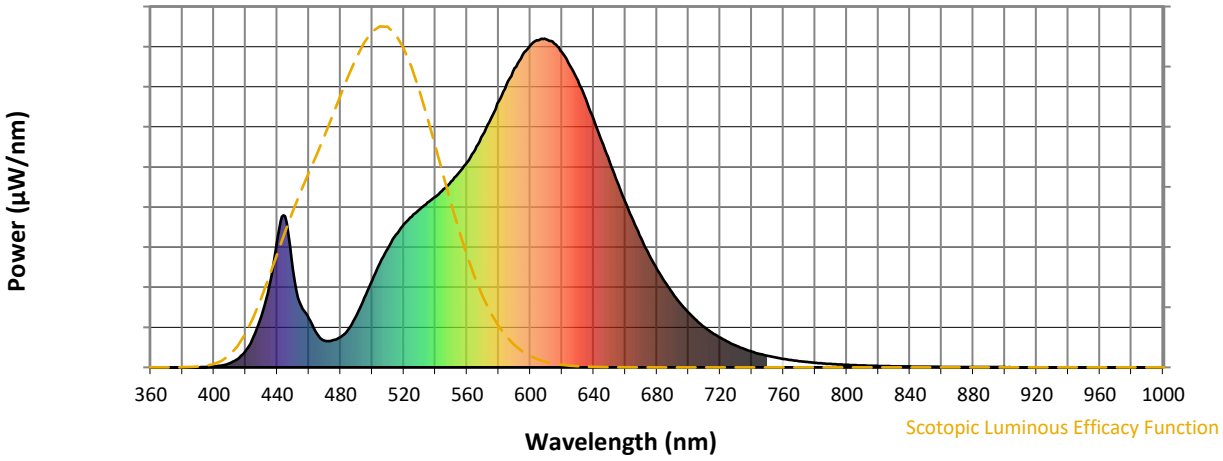



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-8

## Scotopic Flux vs. Wavelength

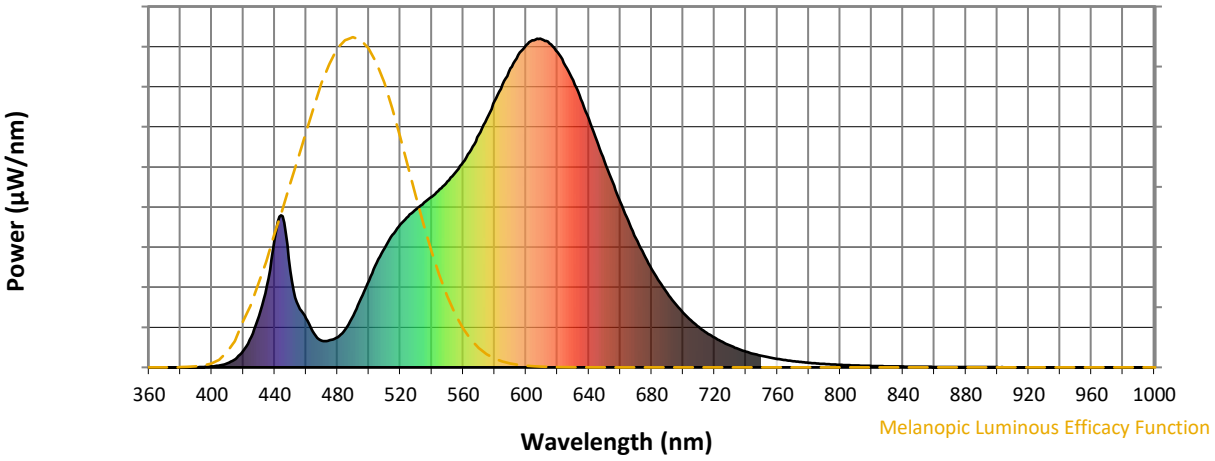



**Scotopic Lumens: NR** **S/P: 1.2**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-8

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.16**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 158 | NR | 620 | 959 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 211 | NR | 625 | 918 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 264 | NR | 630 | 873 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 318 | NR | 635 | 816 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 755 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 403 | NR | 645 | 689 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 435 | NR | 650 | 626 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 459 | NR | 655 | 564 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 481 | NR | 660 | 503 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 501 | NR | 665 | 447 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 519 | NR | 670 | 392 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 26 | NR | 545 | 542 | NR | 675 | 343 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 51 | NR | 550 | 565 | NR | 680 | 299 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 93 | NR | 555 | 593 | NR | 685 | 260 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 624 | NR | 690 | 225 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 250 | NR | 565 | 662 | NR | 695 | 194 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 391 | NR | 570 | 707 | NR | 700 | 166 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 460 | NR | 575 | 756 | NR | 705 | 143 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 293 | NR | 580 | 810 | NR | 710 | 122 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 188 | NR | 585 | 860 | NR | 715 | 105 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 149 | NR | 590 | 910 | NR | 720 | 90 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 950 | NR | 725 | 77 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 80 | NR | 600 | 980 | NR | 730 | 66 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 82 | NR | 605 | 995 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 92 | NR | 610 | 998 | NR | 740 | 48 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 116 | NR | 615 | 985 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

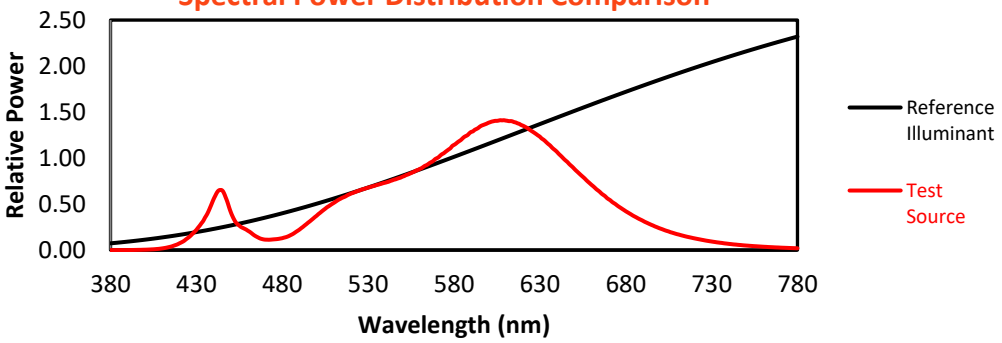
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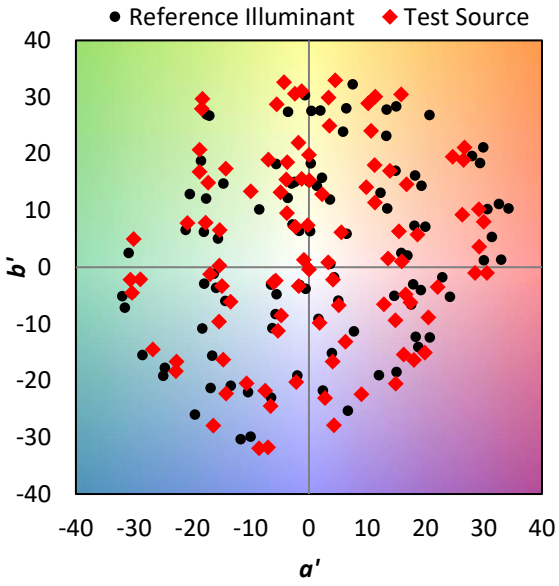
## Summary

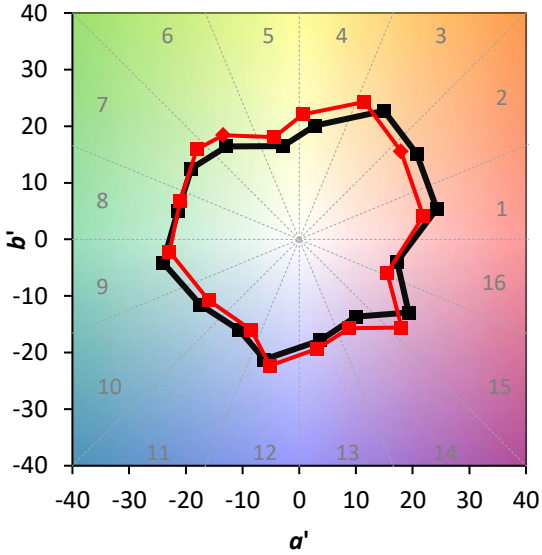
$R_f$ = 82.2
$R_g$ = 99.9
CIE $R_a$ = 82.9
$R_9$ = 10.8

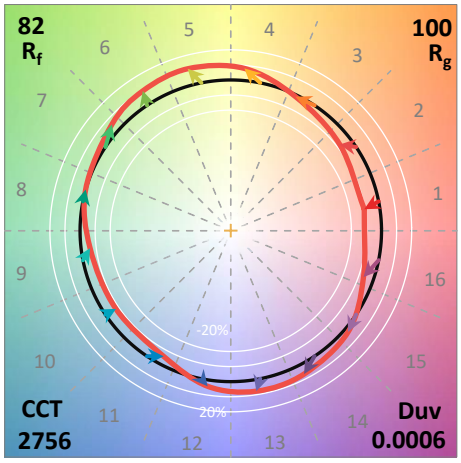
## Spectral Power Distribution Comparison

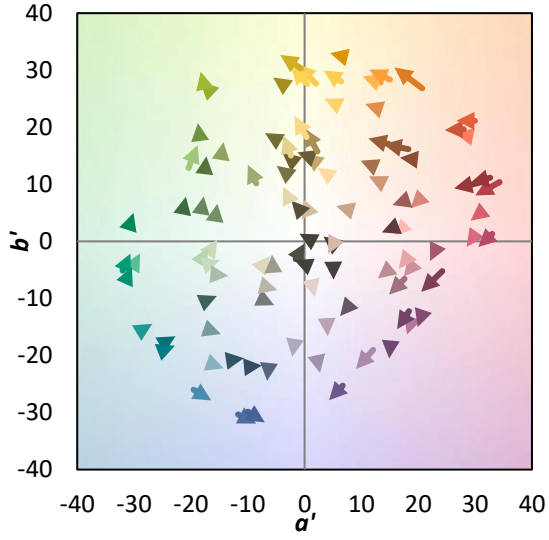



## Color Vector Graphics



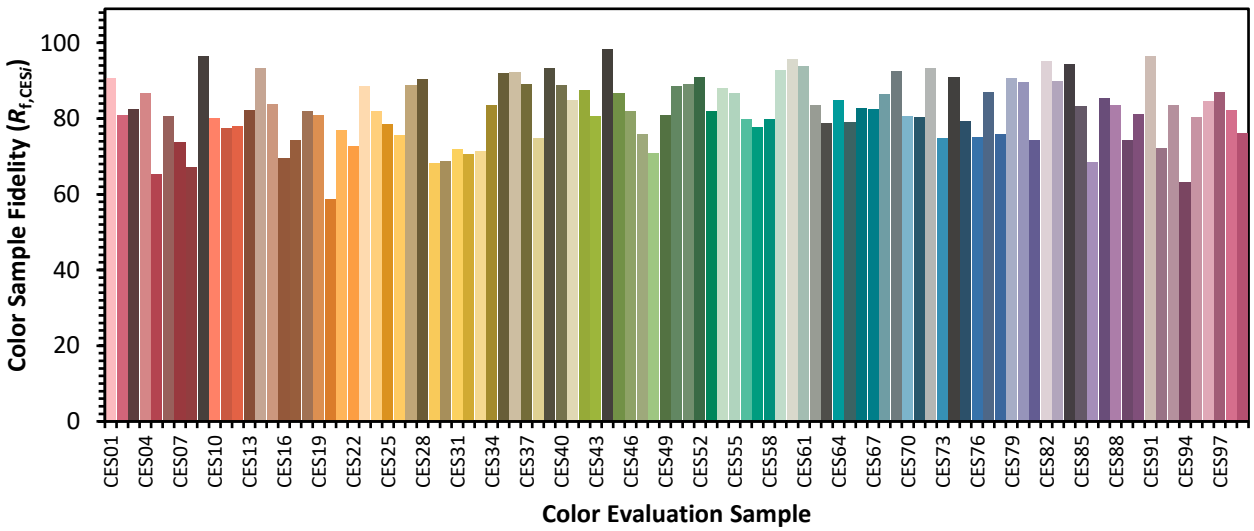



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**Individual Sample Fidelity Index ($R_{f,i}$)**

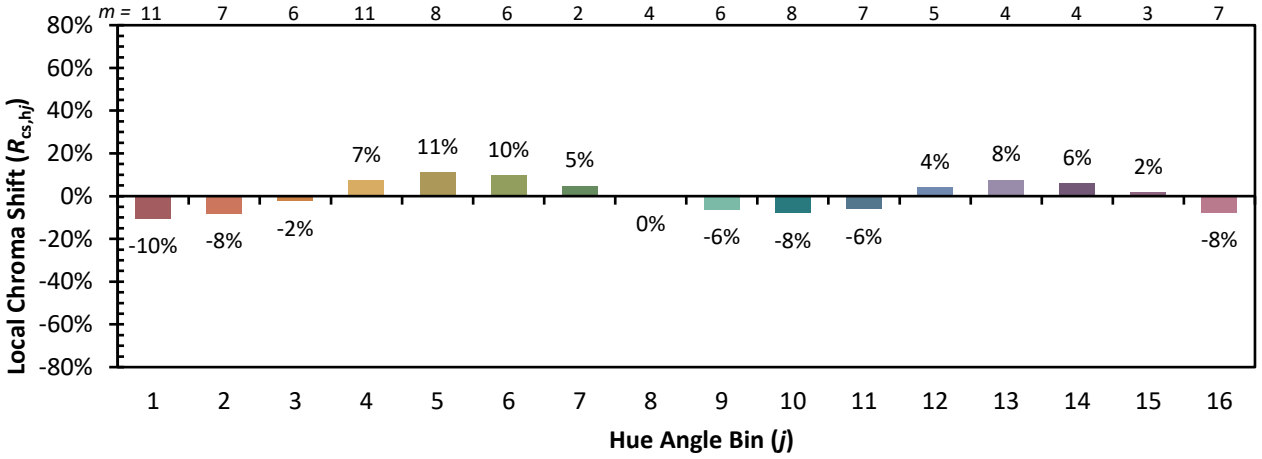
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 | |

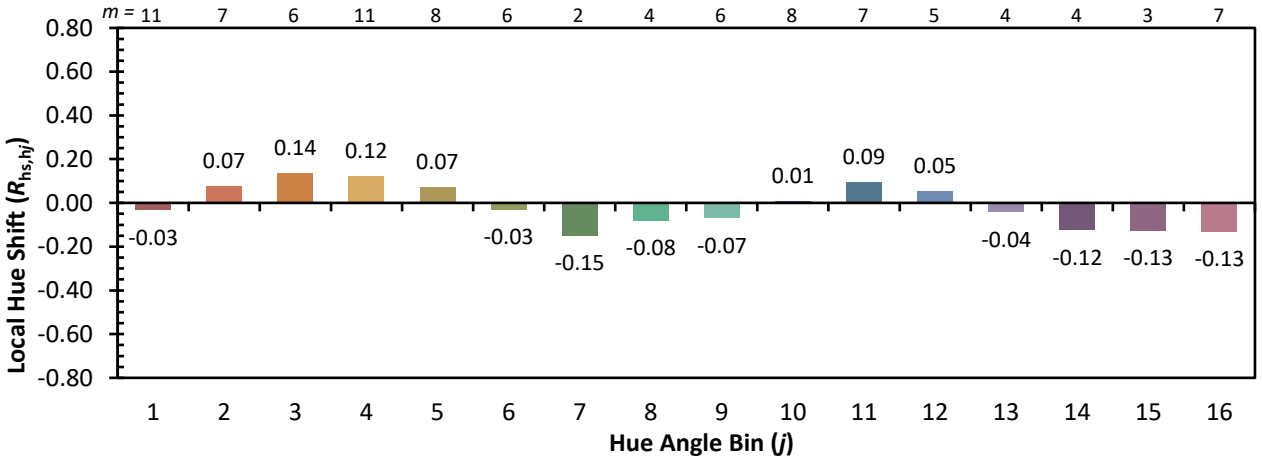


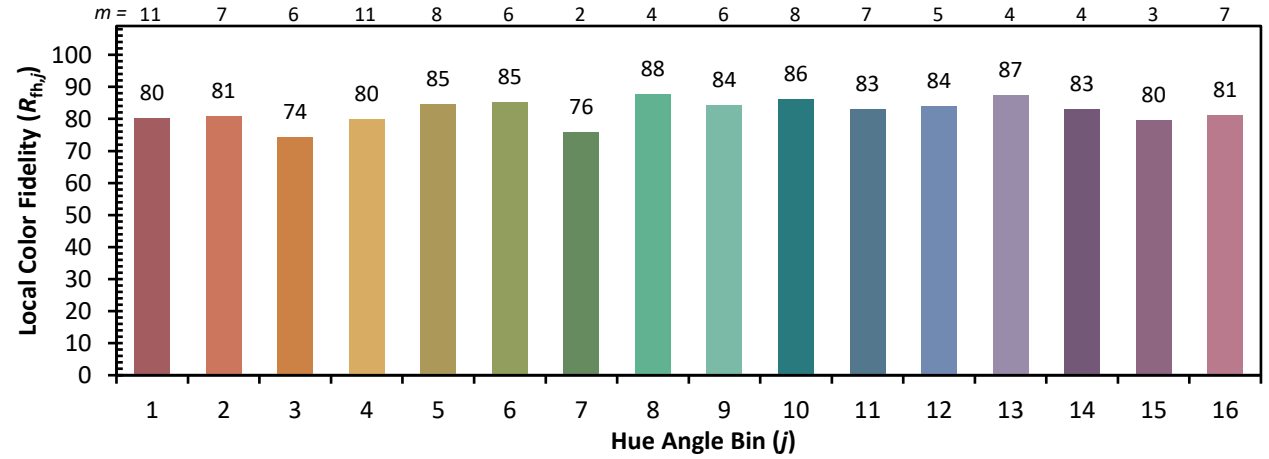
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## Color Rendition by Hue-Angle Bin



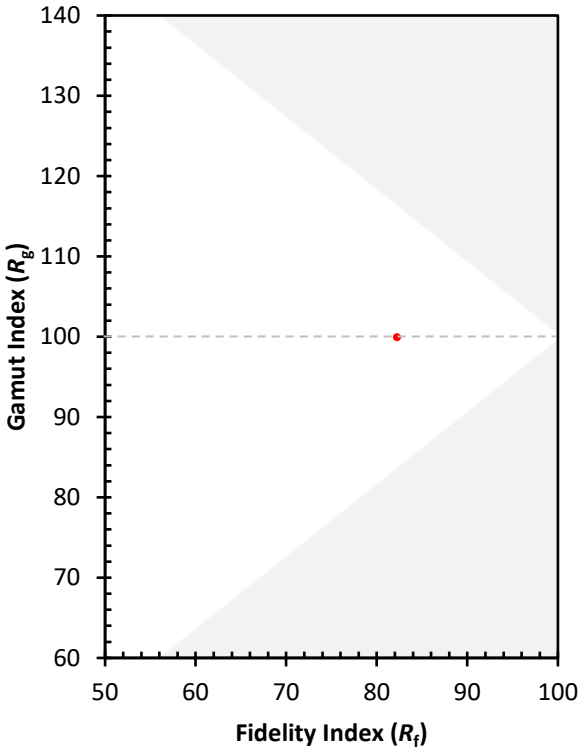



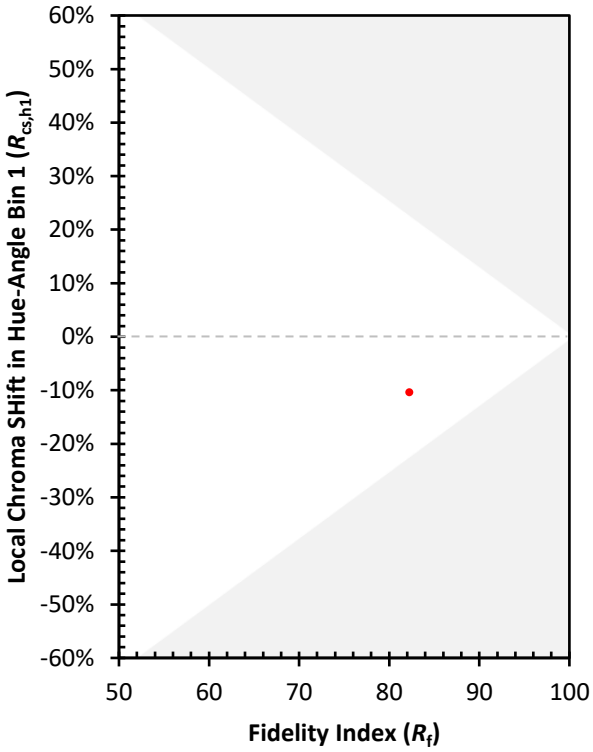



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## Measure Comparisons




(END OF REPORT)