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: P1501765

Luminaire Tested: GSS-SB3A-727-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: | P1501765 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB3A-727-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (78) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9427.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 110.9 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B1 - U0 - G2 |

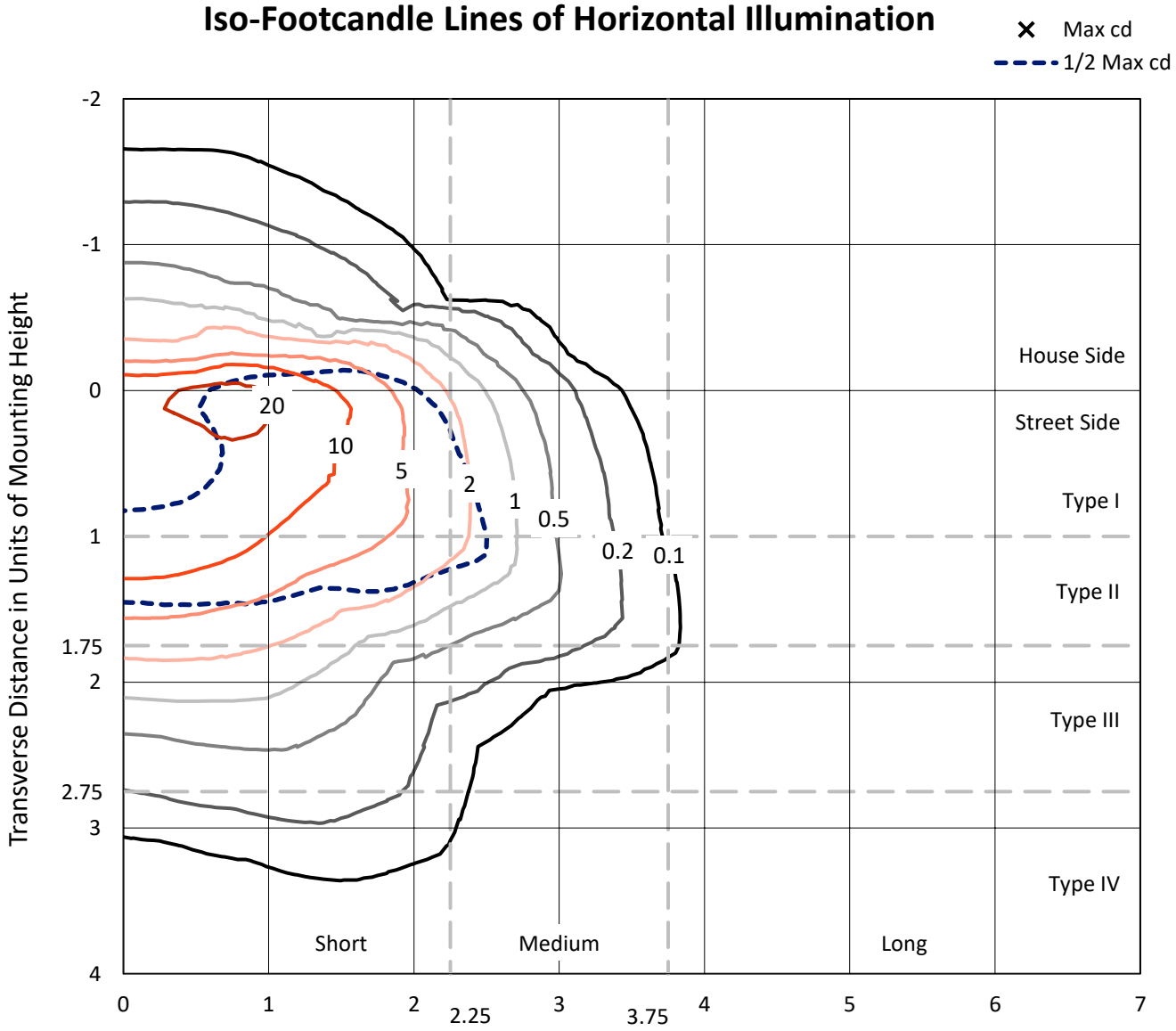
| | |
|---|---|
| Input Watts (W): | 85 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 11.0% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



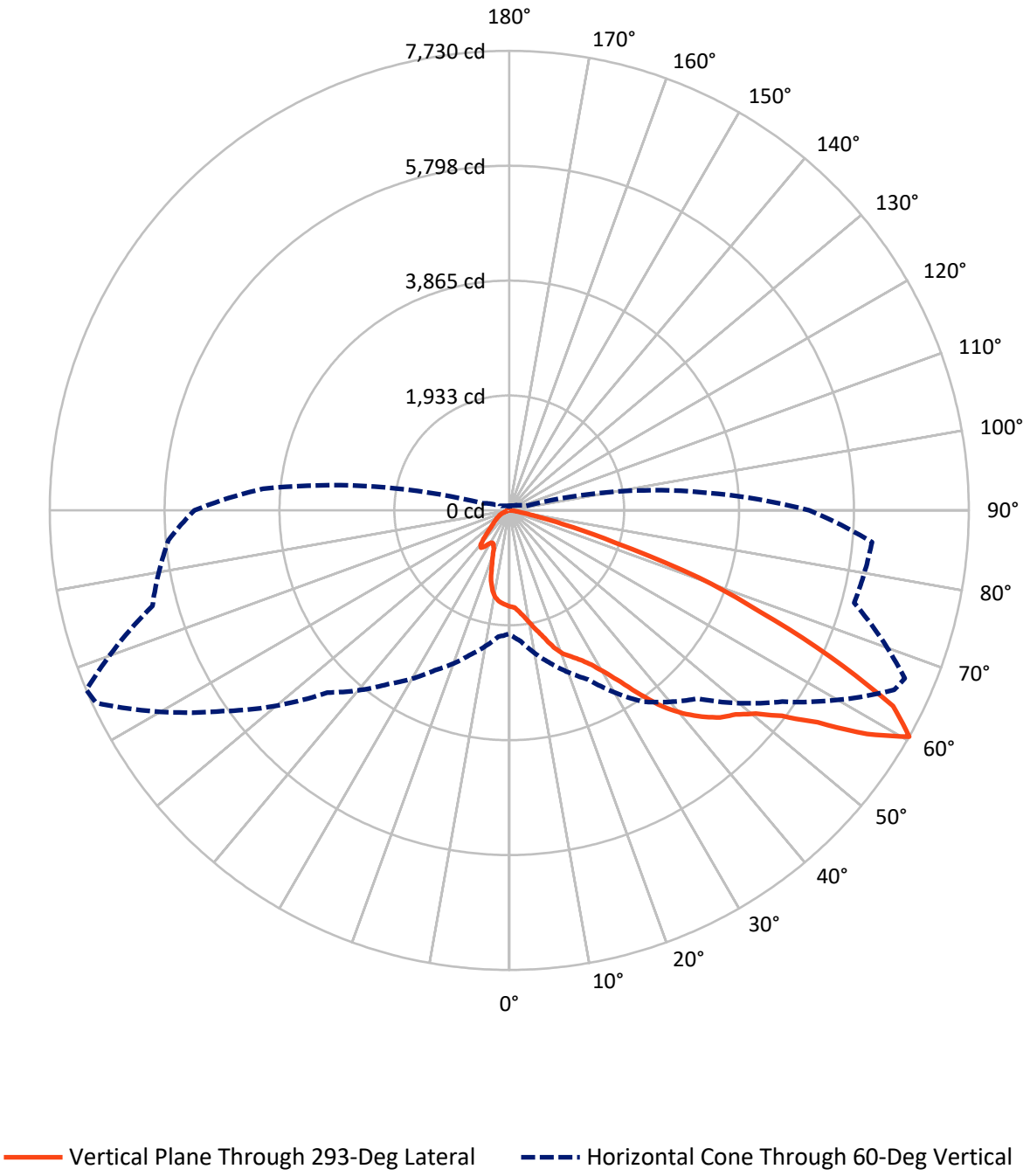

Based on 10 foot mounting height. Maximum calculated value = 26.9 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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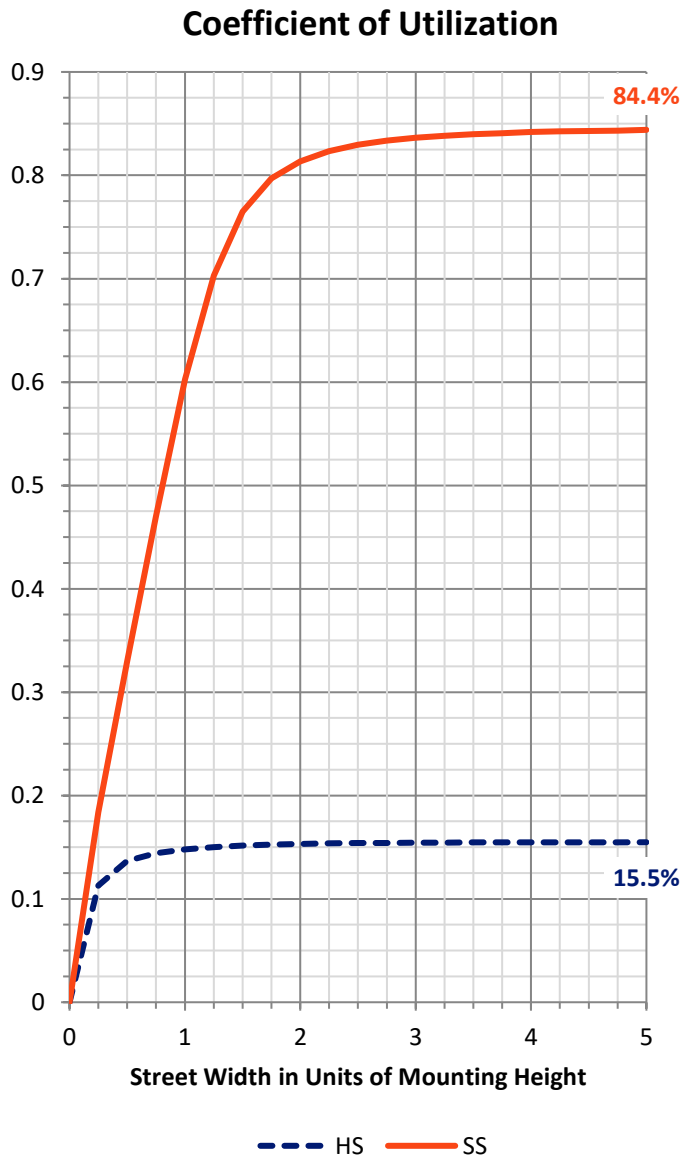
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1470.9 | 0.0 | 1470.9 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 7956.5 | 0.0 | 7956.5 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 9427.4 | 0.0 | 9427.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 146.3 | 1.6 |
| 10°-20° | 368.5 | 3.9 |
| 20°-30° | 687.9 | 7.3 |
| 30°-40° | 1364.1 | 14.5 |
| 40°-50° | 2174.9 | 23.1 |
| 50°-60° | 2598.4 | 27.6 |
| 60°-70° | 1703.4 | 18.1 |
| 70°-80° | 356.9 | 3.8 |
| 80°-90° | 27.0 | 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° | 9427.4 | 100.0 |
| 0°-180° | 9427.4 | 100.0 |



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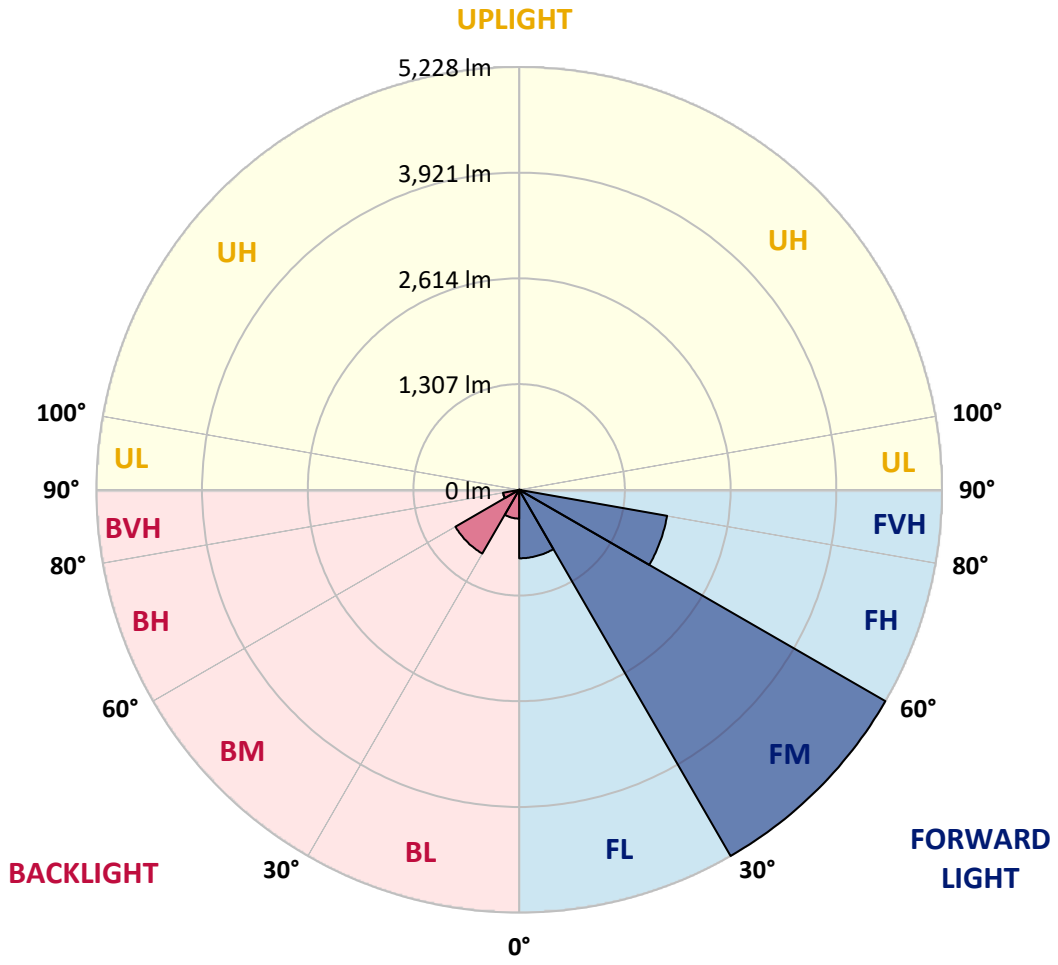
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 846.8 | 9.0 | | | |
| FM | (30°-60°) | 5227.8 | 55.5 | | | |
| FH | (60°-80°) | 1857.1 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 24.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 355.9 | 3.8 | B1/500 | | |
| BM | (30°-60°) | 909.6 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 203.2 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.3 | 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-G2**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5° | 1697.6 | 1692.3 | 1684.4 | 1687.0 | 1684.4 | 1673.8 | 1658.0 | 1644.8 | 1655.4 | 1639.5 | 1629.0 |
| 5° | 1747.8 | 1747.8 | 1742.5 | 1742.5 | 1745.1 | 1739.8 | 1729.3 | 1710.8 | 1713.4 | 1700.2 | 1665.9 |
| 7.5° | 1747.8 | 1739.8 | 1753.0 | 1766.2 | 1790.0 | 1803.2 | 1808.5 | 1797.9 | 1803.2 | 1776.8 | 1731.9 |
| 10° | 1644.8 | 1639.5 | 1673.8 | 1724.0 | 1792.6 | 1853.4 | 1893.0 | 1895.6 | 1903.5 | 1877.1 | 1824.3 |
| 12.5° | 1425.7 | 1415.1 | 1483.8 | 1578.8 | 1718.7 | 1858.6 | 1969.5 | 2011.8 | 2030.3 | 2019.7 | 1945.8 |
| 15° | 1222.4 | 1235.6 | 1283.1 | 1386.1 | 1573.5 | 1787.4 | 2011.8 | 2151.7 | 2178.1 | 2191.3 | 2104.2 |
| 17.5° | 1201.3 | 1203.9 | 1219.7 | 1269.9 | 1412.5 | 1671.2 | 2017.1 | 2296.9 | 2333.9 | 2392.0 | 2273.1 |
| 20° | 1259.3 | 1254.1 | 1269.9 | 1285.7 | 1354.4 | 1568.2 | 1966.9 | 2436.8 | 2508.1 | 2632.2 | 2502.8 |
| 22.5° | 1367.6 | 1367.6 | 1375.5 | 1386.1 | 1420.4 | 1560.3 | 1945.8 | 2566.2 | 2687.6 | 2941.1 | 2790.6 |
| 25° | 1549.8 | 1528.6 | 1533.9 | 1520.7 | 1549.8 | 1655.4 | 1993.3 | 2669.2 | 2835.5 | 3284.3 | 3133.8 |
| 27.5° | 1832.2 | 1840.2 | 1792.6 | 1721.4 | 1737.2 | 1827.0 | 2109.5 | 2785.3 | 2988.6 | 3640.7 | 3482.3 |
| 30° | 2223.0 | 2209.8 | 2180.7 | 2040.8 | 1977.5 | 2056.7 | 2323.3 | 2975.4 | 3194.6 | 4092.2 | 3947.0 |
| 32.5° | 2529.2 | 2566.2 | 2516.0 | 2418.4 | 2320.7 | 2344.4 | 2624.3 | 3281.7 | 3445.4 | 4506.7 | 4427.5 |
| 35° | 2898.9 | 2898.9 | 2909.4 | 2772.1 | 2706.1 | 2700.8 | 3001.8 | 3614.3 | 3778.0 | 4881.6 | 4937.0 |
| 37.5° | 3397.8 | 3363.5 | 3305.4 | 3152.3 | 3102.1 | 3168.2 | 3355.6 | 3957.5 | 4134.4 | 5185.2 | 5333.1 |
| 40° | 3817.6 | 3841.4 | 3833.5 | 3611.7 | 3514.0 | 3585.3 | 3751.6 | 4250.6 | 4387.9 | 5380.6 | 5652.5 |
| 42.5° | 4229.5 | 4242.7 | 4208.4 | 4102.8 | 3960.2 | 3965.5 | 4102.8 | 4472.4 | 4612.3 | 5568.0 | 5953.5 |
| 45° | 4538.4 | 4535.7 | 4512.0 | 4485.6 | 4401.1 | 4314.0 | 4337.7 | 4717.9 | 4839.3 | 5628.7 | 6117.2 |
| 47.5° | 4636.1 | 4657.2 | 4678.3 | 4752.2 | 4810.3 | 4673.0 | 4551.6 | 4849.9 | 4960.8 | 5618.2 | 6177.9 |
| 50° | 4546.3 | 4591.2 | 4694.1 | 4805.0 | 5003.0 | 4992.5 | 4731.1 | 4992.5 | 5100.7 | 5676.3 | 6249.2 |
| 52.5° | 4345.6 | 4390.5 | 4527.8 | 4728.5 | 5026.8 | 5174.6 | 5063.8 | 5232.7 | 5359.5 | 5824.1 | 6397.0 |
| 55° | 3878.3 | 3896.8 | 4179.3 | 4443.3 | 4908.0 | 5095.4 | 5420.2 | 5639.3 | 5744.9 | 6003.6 | 6592.4 |
| 57.5° | 3157.6 | 3202.5 | 3479.7 | 3910.0 | 4575.3 | 4886.9 | 5623.5 | 6333.7 | 6331.0 | 6175.3 | 6634.6 |
| 60° | *2077.8* | *2209.8* | *2661.2* | *3136.5* | *3931.1* | *4477.7* | *5610.3* | *7146.8* | *7228.7* | *6006.3* | *6125.1* |
| 62.5° | 1586.7 | 1642.2 | 1898.2 | 2294.3 | 2909.4 | 3712.0 | 5523.1 | 7389.7 | 7453.1 | 5552.2 | 5362.1 |
| 65° | 1193.3 | 1262.0 | 1507.5 | 1861.3 | 2054.0 | 2516.0 | 4952.9 | 6423.4 | 6510.5 | 4955.5 | 4168.8 |
| 67.5° | 731.3 | 786.8 | 1114.1 | 1528.6 | 1555.0 | 1563.0 | 3342.4 | 4865.8 | 4897.4 | 3997.1 | 2806.5 |
| 70° | 488.4 | 543.9 | 770.9 | 1174.9 | 1238.2 | 900.3 | 1834.9 | 3683.0 | 3680.3 | 2735.2 | 1705.5 |
| 72.5° | 282.5 | 308.9 | 488.4 | 866.0 | 974.2 | 572.9 | 916.1 | 2341.8 | 2238.8 | 1285.7 | 797.3 |
| 75° | 161.0 | 179.5 | 269.3 | 557.1 | 683.8 | 364.3 | 361.7 | 1254.1 | 1108.9 | 662.7 | 435.6 |
| 77.5° | 97.7 | 105.6 | 147.8 | 364.3 | 411.9 | 245.5 | 200.6 | 583.5 | 562.3 | 388.1 | 229.7 |
| 80° | 47.5 | 55.4 | 89.8 | 213.9 | 264.0 | 132.0 | 121.4 | 229.7 | 245.5 | 213.9 | 121.4 |
| 82.5° | 15.8 | 21.1 | 50.2 | 81.8 | 171.6 | 52.8 | 50.2 | 126.7 | 134.6 | 126.7 | 58.1 |
| 85° | 7.9 | 10.6 | 23.8 | 26.4 | 66.0 | 26.4 | 18.5 | 55.4 | 68.6 | 42.2 | 23.8 |
| 87.5° | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 5.3 | 5.3 | 5.3 | 5.3 |
| 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° | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5° | 1621.0 | 1615.8 | 1605.2 | 1586.7 | 1584.1 | 1570.9 | 1549.8 | 1536.6 | 1526.0 | 1533.9 | 1536.6 |
| 5° | 1650.1 | 1636.9 | 1605.2 | 1555.0 | 1502.2 | 1449.4 | 1399.3 | 1341.2 | 1301.6 | 1296.3 | 1285.7 |
| 7.5° | 1702.9 | 1676.5 | 1607.8 | 1510.2 | 1375.5 | 1248.8 | 1100.9 | 958.4 | 887.1 | 876.5 | 852.8 |
| 10° | 1787.4 | 1742.5 | 1629.0 | 1430.9 | 1172.2 | 908.2 | 683.8 | 530.7 | 443.5 | 427.7 | 433.0 |
| 12.5° | 1887.7 | 1824.3 | 1631.6 | 1296.3 | 892.4 | 562.3 | 388.1 | 330.0 | 311.5 | 303.6 | 303.6 |
| 15° | 2017.1 | 1924.7 | 1629.0 | 1122.1 | 601.9 | 361.7 | 311.5 | 287.8 | 279.9 | 274.6 | 274.6 |
| 17.5° | 2180.7 | 2059.3 | 1610.5 | 860.7 | 406.6 | 314.2 | 285.1 | 266.7 | 256.1 | 253.5 | 253.5 |
| 20° | 2373.5 | 2209.8 | 1568.2 | 641.6 | 340.6 | 293.1 | 269.3 | 245.5 | 237.6 | 232.3 | 232.3 |
| 22.5° | 2619.0 | 2392.0 | 1486.4 | 499.0 | 322.1 | 279.9 | 253.5 | 227.1 | 219.1 | 213.9 | 213.9 |
| 25° | 2904.1 | 2624.3 | 1378.1 | 448.8 | 319.5 | 269.3 | 237.6 | 211.2 | 203.3 | 200.6 | 198.0 |
| 27.5° | 3242.1 | 2872.5 | 1277.8 | 451.5 | 324.7 | 261.4 | 221.8 | 198.0 | 190.1 | 182.2 | 184.8 |
| 30° | 3640.7 | 3128.5 | 1196.0 | 483.1 | 330.0 | 253.5 | 211.2 | 190.1 | 182.2 | 171.6 | 171.6 |
| 32.5° | 4034.1 | 3429.5 | 1188.1 | 541.2 | 348.5 | 248.2 | 200.6 | 179.5 | 171.6 | 163.7 | 163.7 |
| 35° | 4438.1 | 3704.1 | 1232.9 | 617.8 | 385.5 | 240.3 | 187.4 | 169.0 | 161.0 | 155.8 | 153.1 |
| 37.5° | 4823.5 | 3923.2 | 1275.2 | 665.3 | 364.3 | 205.9 | 171.6 | 155.8 | 147.8 | 137.3 | 137.3 |
| 40° | 5079.6 | 4042.0 | 1283.1 | 628.3 | 301.0 | 184.8 | 155.8 | 139.9 | 129.4 | 124.1 | 121.4 |
| 42.5° | 5267.0 | 4118.6 | 1193.3 | 509.5 | 261.4 | 169.0 | 142.6 | 126.7 | 118.8 | 113.5 | 113.5 |
| 45° | 5343.6 | 4092.2 | 1040.2 | 388.1 | 240.3 | 155.8 | 129.4 | 116.2 | 110.9 | 105.6 | 105.6 |
| 47.5° | 5333.1 | 3970.7 | 884.4 | 311.5 | 219.1 | 142.6 | 121.4 | 110.9 | 105.6 | 100.3 | 97.7 |
| 50° | 5314.6 | 3857.2 | 726.0 | 277.2 | 195.4 | 134.6 | 113.5 | 105.6 | 97.7 | 92.4 | 89.8 |
| 52.5° | 5436.0 | 3820.3 | 601.9 | 253.5 | 182.2 | 129.4 | 110.9 | 100.3 | 92.4 | 87.1 | 87.1 |
| 55° | 5557.5 | 3836.1 | 472.6 | 237.6 | 169.0 | 126.7 | 108.2 | 97.7 | 89.8 | 81.8 | 81.8 |
| 57.5° | 5549.5 | 3767.5 | 359.1 | 221.8 | 158.4 | 124.1 | 105.6 | 95.0 | 81.8 | 76.6 | 76.6 |
| 60° | *5045.3* | *3360.9* | *279.9* | *203.3* | *145.2* | *116.2* | *97.7* | *89.8* | *76.6* | *68.6* | *68.6* |
| 62.5° | 4266.4 | 2642.8 | 229.7 | 179.5 | 129.4 | 105.6 | 89.8 | 81.8 | 68.6 | 55.4 | 55.4 |
| 65° | 3152.3 | 1906.2 | 184.8 | 155.8 | 118.8 | 92.4 | 81.8 | 71.3 | 55.4 | 44.9 | 42.2 |
| 67.5° | 2133.2 | 1172.2 | 147.8 | 129.4 | 105.6 | 79.2 | 68.6 | 60.7 | 50.2 | 37.0 | 34.3 |
| 70° | 1264.6 | 623.1 | 108.2 | 89.8 | 79.2 | 58.1 | 58.1 | 52.8 | 42.2 | 31.7 | 29.0 |
| 72.5° | 601.9 | 216.5 | 79.2 | 66.0 | 60.7 | 42.2 | 44.9 | 44.9 | 34.3 | 23.8 | 21.1 |
| 75° | 306.3 | 105.6 | 52.8 | 47.5 | 39.6 | 31.7 | 37.0 | 34.3 | 23.8 | 15.8 | 15.8 |
| 77.5° | 174.2 | 73.9 | 37.0 | 31.7 | 26.4 | 21.1 | 23.8 | 21.1 | 13.2 | 7.9 | 7.9 |
| 80° | 97.7 | 52.8 | 23.8 | 21.1 | 15.8 | 13.2 | 13.2 | 10.6 | 7.9 | 2.6 | 2.6 |
| 82.5° | 37.0 | 31.7 | 15.8 | 10.6 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 0.0 | 0.0 |
| 85° | 15.8 | 7.9 | 7.9 | 5.3 | 5.3 | 2.6 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 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° | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5° | 1515.4 | 1520.7 | 1526.0 | 1547.1 | 1552.4 | 1568.2 | 1581.4 | 1597.3 | 1599.9 | 1621.0 | 1621.0 |
| 5° | 1306.9 | 1304.2 | 1349.1 | 1415.1 | 1457.3 | 1515.4 | 1560.3 | 1607.8 | 1634.2 | 1668.6 | 1684.4 |
| 7.5° | 866.0 | 932.0 | 1032.3 | 1148.5 | 1298.9 | 1438.9 | 1544.5 | 1636.9 | 1700.2 | 1739.8 | 1755.7 |
| 10° | 430.3 | 467.3 | 572.9 | 763.0 | 1019.1 | 1304.2 | 1528.6 | 1700.2 | 1803.2 | 1848.1 | 1877.1 |
| 12.5° | 303.6 | 311.5 | 330.0 | 433.0 | 678.5 | 1082.5 | 1478.5 | 1768.9 | 1911.5 | 1995.9 | 2032.9 |
| 15° | 271.9 | 277.2 | 285.1 | 314.2 | 419.8 | 807.9 | 1388.7 | 1845.4 | 2080.4 | 2178.1 | 2225.6 |
| 17.5° | 250.8 | 253.5 | 261.4 | 285.1 | 330.0 | 549.1 | 1243.5 | 1927.3 | 2283.7 | 2402.5 | 2492.3 |
| 20° | 232.3 | 232.3 | 240.3 | 269.3 | 306.3 | 422.4 | 1034.9 | 2019.7 | 2542.4 | 2714.0 | 2803.8 |
| 22.5° | 211.2 | 216.5 | 221.8 | 253.5 | 298.3 | 385.5 | 839.6 | 2091.0 | 2830.2 | 3038.8 | 3144.4 |
| 25° | 195.4 | 200.6 | 205.9 | 237.6 | 290.4 | 385.5 | 726.0 | 2135.9 | 3152.3 | 3400.5 | 3545.7 |
| 27.5° | 182.2 | 187.4 | 195.4 | 227.1 | 282.5 | 401.3 | 681.2 | 2149.1 | 3503.4 | 3825.5 | 4020.9 |
| 30° | 171.6 | 176.9 | 184.8 | 219.1 | 287.8 | 419.8 | 697.0 | 2130.6 | 3859.9 | 4263.8 | 4496.1 |
| 32.5° | 161.0 | 166.3 | 174.2 | 211.2 | 287.8 | 443.5 | 749.8 | 2093.6 | 4205.7 | 4702.1 | 4987.2 |
| 35° | 153.1 | 155.8 | 158.4 | 190.1 | 261.4 | 440.9 | 815.8 | 2056.7 | 4554.2 | 5135.0 | 5467.7 |
| 37.5° | 137.3 | 139.9 | 145.2 | 163.7 | 208.6 | 401.3 | 829.0 | 2011.8 | 4828.8 | 5499.4 | 5866.4 |
| 40° | 121.4 | 126.7 | 132.0 | 150.5 | 174.2 | 324.7 | 770.9 | 1916.7 | 4974.0 | 5779.2 | 6225.4 |
| 42.5° | 110.9 | 113.5 | 118.8 | 137.3 | 161.0 | 258.7 | 646.8 | 1750.4 | 5103.4 | 5969.3 | 6486.8 |
| 45° | 103.0 | 105.6 | 110.9 | 124.1 | 150.5 | 224.4 | 509.5 | 1547.1 | 5113.9 | 6030.0 | 6613.5 |
| 47.5° | 95.0 | 97.7 | 100.3 | 113.5 | 145.2 | 200.6 | 390.7 | 1362.3 | 5111.3 | 6109.2 | 6721.8 |
| 50° | 89.8 | 92.4 | 97.7 | 108.2 | 137.3 | 179.5 | 322.1 | 1211.8 | 5222.2 | 6280.9 | 6940.9 |
| 52.5° | 87.1 | 87.1 | 95.0 | 105.6 | 129.4 | 163.7 | 269.3 | 1077.2 | 5280.3 | 6449.8 | 7099.3 |
| 55° | 81.8 | 84.5 | 89.8 | 100.3 | 121.4 | 155.8 | 229.7 | 908.2 | 5306.7 | 6534.3 | 7128.3 |
| 57.5° | 76.6 | 79.2 | 87.1 | 95.0 | 116.2 | 147.8 | 198.0 | 678.5 | 4929.1 | 6093.4 | 6642.6 |
| 60° | *68.6* | *73.9* | *84.5* | *92.4* | *108.2* | *134.6* | *174.2* | *459.4* | *4158.2* | *5296.1* | *5755.5* |
| 62.5° | 55.4 | 66.0 | 76.6 | 81.8 | 97.7 | 113.5 | 147.8 | 306.3 | 3321.3 | 4382.6 | 4905.4 |
| 65° | 42.2 | 55.4 | 63.4 | 71.3 | 81.8 | 95.0 | 124.1 | 208.6 | 2215.1 | 2949.0 | 3537.8 |
| 67.5° | 37.0 | 47.5 | 52.8 | 58.1 | 68.6 | 81.8 | 100.3 | 145.2 | 1343.8 | 1771.5 | 2352.4 |
| 70° | 29.0 | 39.6 | 44.9 | 42.2 | 52.8 | 63.4 | 71.3 | 97.7 | 686.4 | 961.0 | 1338.5 |
| 72.5° | 21.1 | 31.7 | 34.3 | 34.3 | 31.7 | 44.9 | 52.8 | 68.6 | 298.3 | 467.3 | 607.2 |
| 75° | 15.8 | 21.1 | 23.8 | 21.1 | 18.5 | 29.0 | 37.0 | 44.9 | 195.4 | 279.9 | 353.8 |
| 77.5° | 7.9 | 7.9 | 13.2 | 13.2 | 7.9 | 15.8 | 18.5 | 26.4 | 110.9 | 163.7 | 203.3 |
| 80° | 2.6 | 0.0 | 0.0 | 2.6 | 0.0 | 5.3 | 7.9 | 13.2 | 58.1 | 87.1 | 126.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 29.0 | 26.4 | 66.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 15.8 |
| 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: P1501765
CATALOG NUMBER: GSS-SB3A-727-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1615.8 | *1615.8* | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 | 1615.8 |
| 2.5° | 1634.2 | *1634.2* | 1644.8 | 1660.6 | 1668.6 | 1673.8 | 1676.5 | 1681.8 | 1702.9 | 1697.6 |
| 5° | 1702.9 | *1708.2* | 1716.1 | 1731.9 | 1750.4 | 1745.1 | 1745.1 | 1745.1 | 1758.3 | 1747.8 |
| 7.5° | 1792.6 | *1808.5* | 1811.1 | 1829.6 | 1816.4 | 1790.0 | 1774.2 | 1750.4 | 1747.8 | 1747.8 |
| 10° | 1937.9 | *1932.6* | 1932.6 | 1908.8 | 1861.3 | 1784.7 | 1716.1 | 1668.6 | 1642.2 | 1644.8 |
| 12.5° | 2093.6 | *2072.5* | 2075.1 | 1988.0 | 1853.4 | 1684.4 | 1544.5 | 1441.5 | 1433.6 | 1425.7 |
| 15° | 2286.3 | *2230.9* | 2220.3 | 2019.7 | 1734.6 | 1475.8 | 1338.5 | 1256.7 | 1230.3 | 1222.4 |
| 17.5° | 2560.9 | *2421.0* | 2370.8 | 1964.3 | 1578.8 | 1346.5 | 1243.5 | 1206.5 | 1203.9 | 1201.3 |
| 20° | 2851.3 | *2574.1* | 2479.1 | 1882.4 | 1526.0 | 1349.1 | 1272.5 | 1262.0 | 1256.7 | 1259.3 |
| 22.5° | 3189.3 | *2671.8* | 2550.4 | 1895.6 | 1573.5 | 1436.2 | 1375.5 | 1367.6 | 1362.3 | 1367.6 |
| 25° | 3537.8 | *2785.3* | 2634.8 | 2001.2 | 1716.1 | 1597.3 | 1526.0 | 1510.2 | 1526.0 | 1549.8 |
| 27.5° | 3888.9 | *2938.5* | 2801.2 | 2209.8 | 1945.8 | 1816.4 | 1747.8 | 1805.8 | 1829.6 | 1832.2 |
| 30° | 4200.4 | *3152.3* | 3025.6 | 2502.8 | 2207.1 | 2077.8 | 2091.0 | 2164.9 | 2193.9 | 2223.0 |
| 32.5° | 4485.6 | *3437.4* | 3339.8 | 2835.5 | 2545.1 | 2468.5 | 2460.6 | 2516.0 | 2547.7 | 2529.2 |
| 35° | 4773.3 | *3809.7* | 3714.7 | 3197.2 | 2959.6 | 2896.2 | 2830.2 | 2938.5 | 2927.9 | 2898.9 |
| 37.5° | 5045.3 | *4184.6* | 4097.5 | 3585.3 | 3339.8 | 3228.9 | 3218.3 | 3316.0 | 3403.1 | 3397.8 |
| 40° | 5240.6 | *4488.2* | 4382.6 | 3970.7 | 3738.4 | 3643.4 | 3698.8 | 3867.8 | 3846.7 | 3817.6 |
| 42.5° | 5420.2 | *4746.9* | 4651.9 | 4308.7 | 4065.8 | 4108.0 | 4158.2 | 4271.7 | 4258.5 | 4229.5 |
| 45° | 5504.7 | *4968.7* | 4886.9 | 4564.8 | 4446.0 | 4580.6 | 4578.0 | 4620.2 | 4548.9 | 4538.4 |
| 47.5° | 5623.5 | *5127.1* | 5042.6 | 4794.5 | 4900.1 | 4955.5 | 4799.7 | 4754.9 | 4688.9 | 4636.1 |
| 50° | 5842.6 | *5372.7* | 5288.2 | 5143.0 | 5232.7 | 5061.1 | 4871.0 | 4773.3 | 4638.7 | 4546.3 |
| 52.5° | 6098.7 | *5744.9* | 5671.0 | 5612.9 | 5362.1 | 5008.3 | 4765.4 | 4588.5 | 4424.8 | 4345.6 |
| 55° | 6420.8 | *6294.1* | 6241.3 | 5921.8 | 5245.9 | 4791.8 | 4506.7 | 4176.7 | 3952.3 | 3878.3 |
| 57.5° | 6526.4 | *7099.3* | 7080.8 | 5972.0 | 4921.2 | 4398.4 | 3883.6 | 3437.4 | 3205.1 | 3157.6 |
| 60° | *6214.9* | *7730.3* | *7664.3* | *5887.5* | *4332.4* | *3569.4* | *2967.5* | *2510.8* | *2133.2* | *2077.8* |
| 62.5° | 5816.2 | *7247.1* | 7223.4 | 5462.4 | 3300.2 | 2558.3 | 2217.7 | 1790.0 | 1629.0 | 1586.7 |
| 65° | 4981.9 | *5929.7* | 5940.3 | 4382.6 | 2088.3 | 1837.5 | 1821.7 | 1423.0 | 1225.0 | 1193.3 |
| 67.5° | 3836.1 | *4548.9* | 4475.0 | 2756.3 | 1217.1 | 1470.5 | 1454.7 | 1040.2 | 752.4 | 731.3 |
| 70° | 2241.5 | *3387.3* | 3268.5 | 1433.6 | 805.2 | 1227.7 | 1119.4 | 731.3 | 512.2 | 488.4 |
| 72.5° | 990.0 | *1863.9* | 2001.2 | 631.0 | 567.6 | 976.8 | 807.9 | 448.8 | 287.8 | 282.5 |
| 75° | 549.1 | *924.0* | 966.3 | 274.6 | 398.7 | 694.4 | 488.4 | 250.8 | 163.7 | 161.0 |
| 77.5° | 330.0 | *409.2* | 398.7 | 176.9 | 298.3 | 443.5 | 295.7 | 142.6 | 103.0 | 97.7 |
| 80° | 184.8 | *187.4* | 158.4 | 129.4 | 176.9 | 248.2 | 166.3 | 89.8 | 47.5 | 47.5 |
| 82.5° | 113.5 | *103.0* | 81.8 | 39.6 | 47.5 | 150.5 | 60.7 | 50.2 | 15.8 | 15.8 |
| 85° | 47.5 | *31.7* | 21.1 | 7.9 | 18.5 | 39.6 | 21.1 | 23.8 | 7.9 | 7.9 |
| 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-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

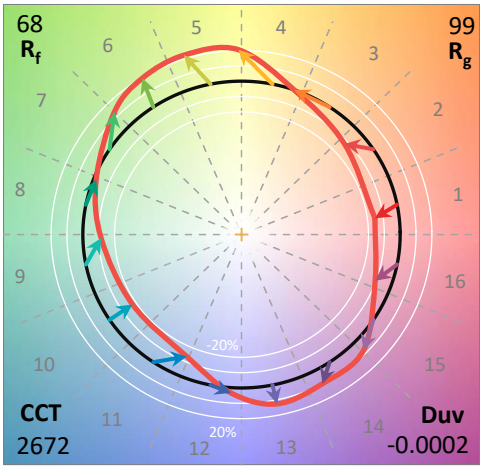
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-3 |
| 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-727-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2672 |
| CIE u': | 0.2638 |
| CIE v': | 0.5276 |
| Duv: | -0.0002 |
| CIE x: | 0.4619 |
| CIE y: | 0.4106 |
| CIE z: | 0.1275 |
| Peak Wavelength (nm): | 601 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 61.88407 |
| Rf: | 67.9 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 71.1 |
| R1: | 68.3 |
| R2: | 79.8 |
| R3: | 91.2 |
| R4: | 69.4 |
| R5: | 66.5 |
| R6: | 72.6 |
| R7: | 77.0 |
| R8: | 44.1 |
| R9: | -27.8 |
| R10: | 54.4 |
| R11: | 65.8 |
| R12: | 45.6 |
| R13: | 69.8 |
| R14: | 94.5 |
| R15: | 60.1 |




## Test Conditions

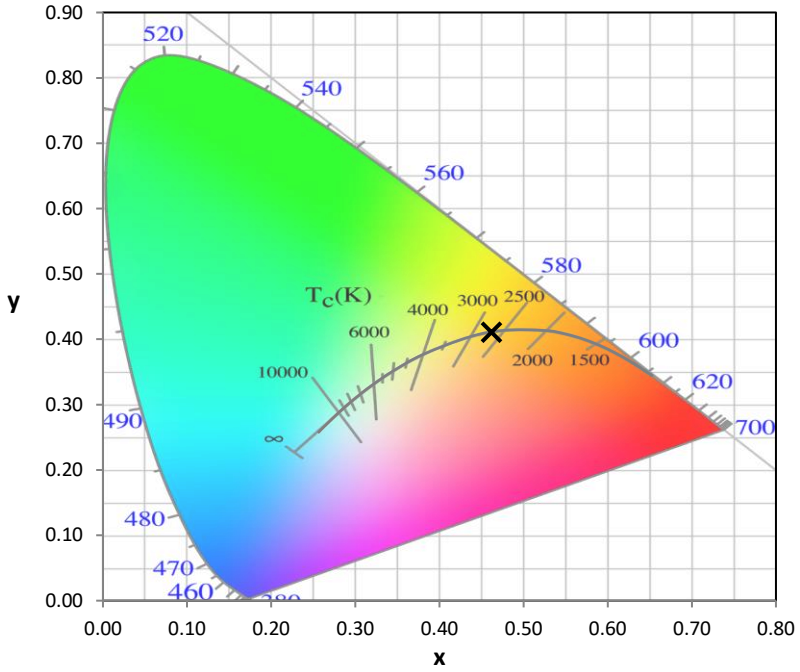
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

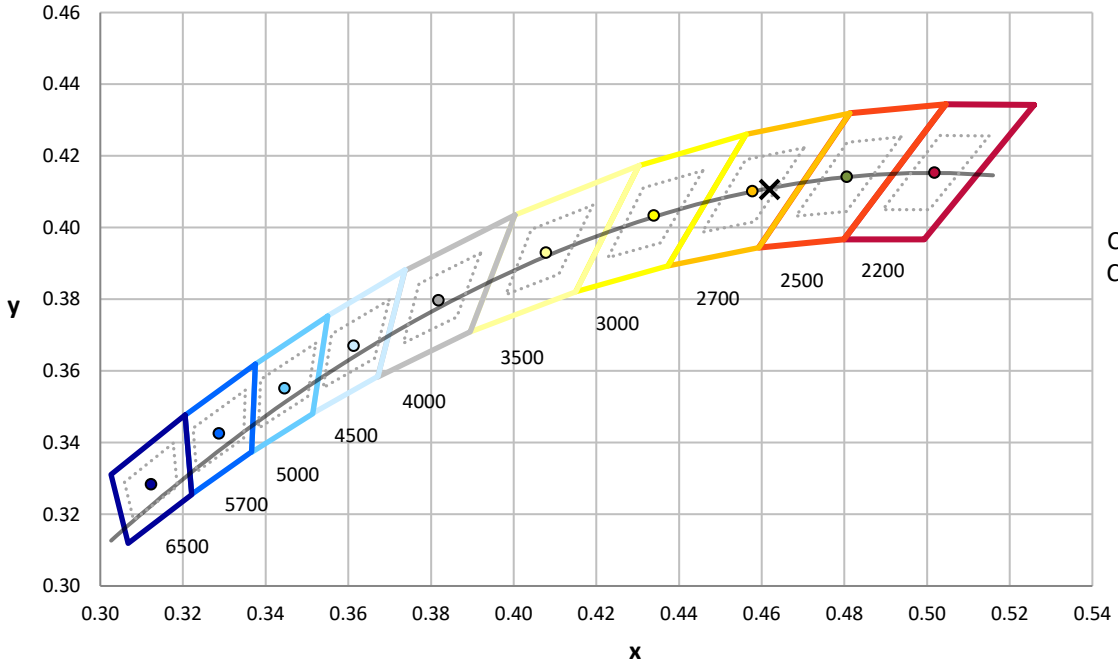
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-3

## CIE 1931 Chromaticity Diagram




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

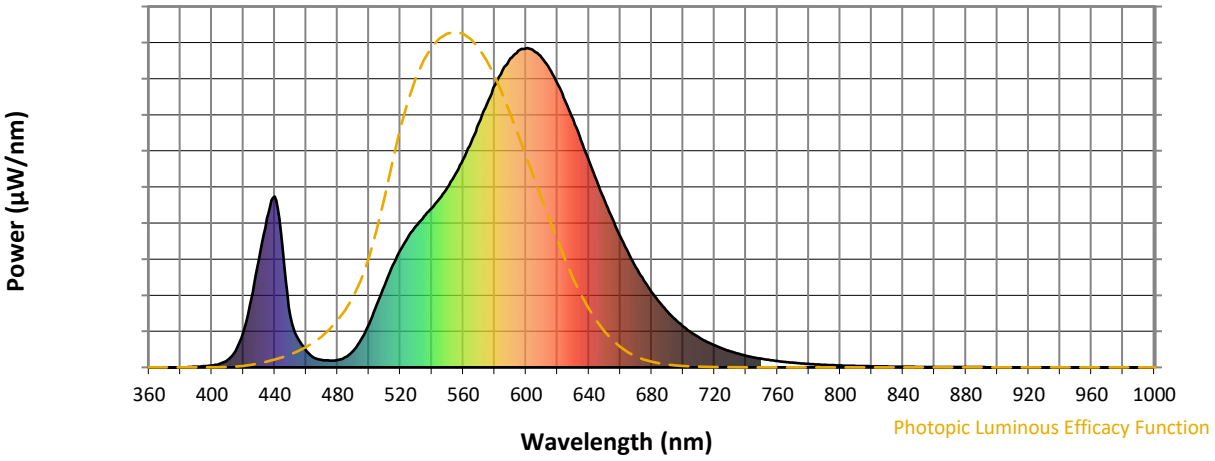



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

## Photopic Flux vs. Wavelength

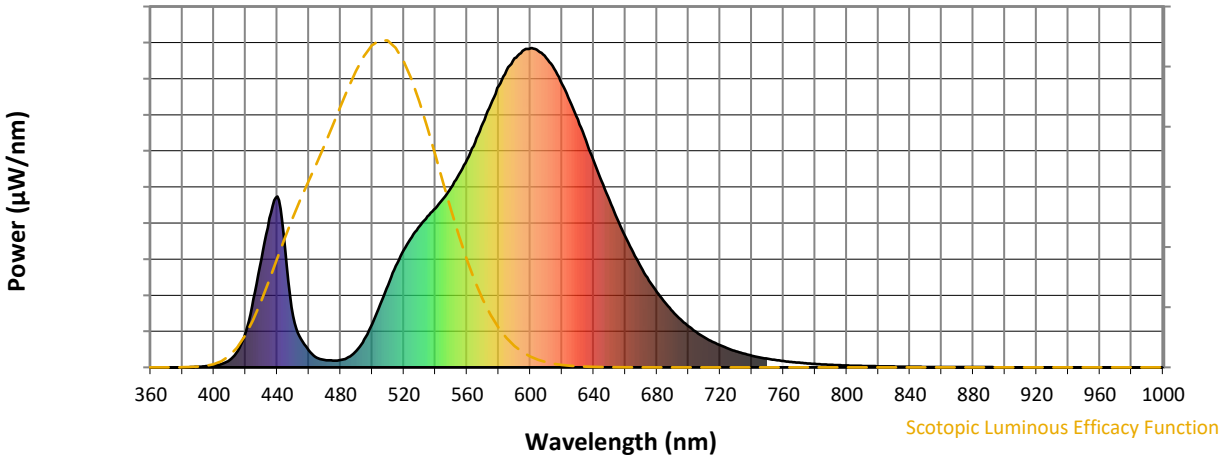



## Photopic Lumens: NR

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-3

## Scotopic Flux vs. Wavelength

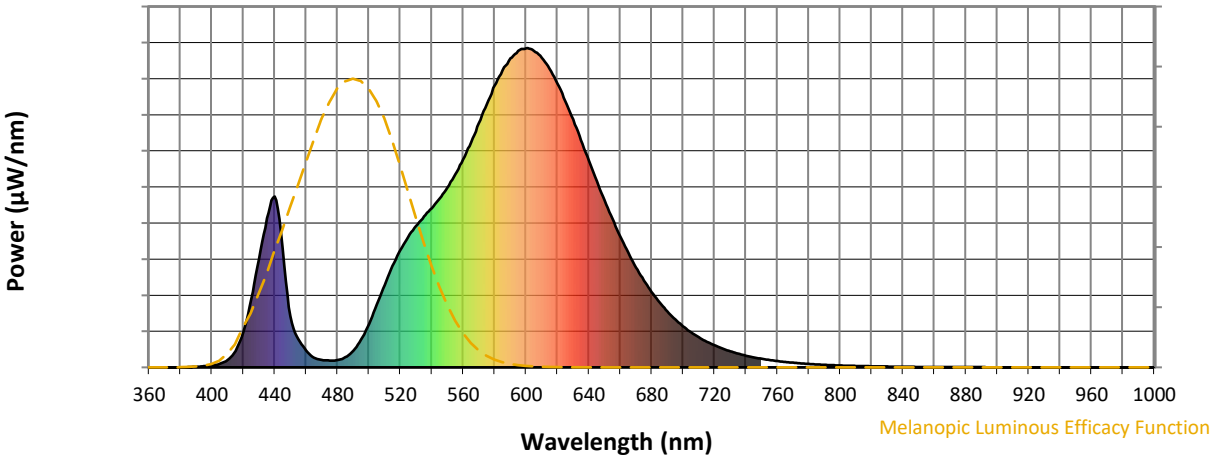



**Scotopic Lumens: NR** **S/P: 1.02**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-3

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.71**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

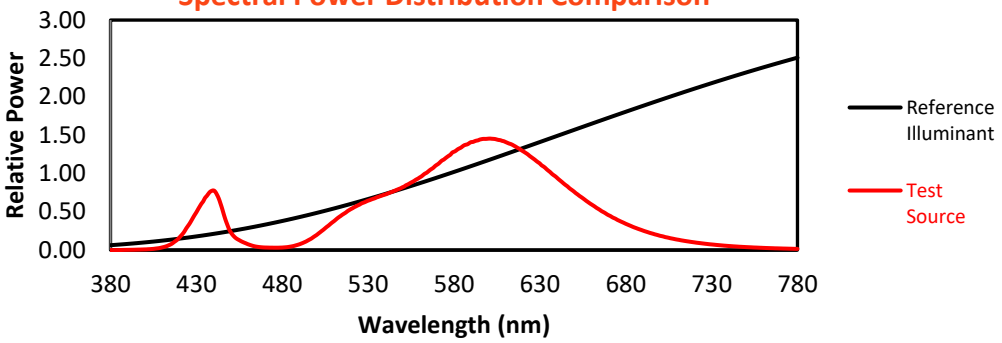
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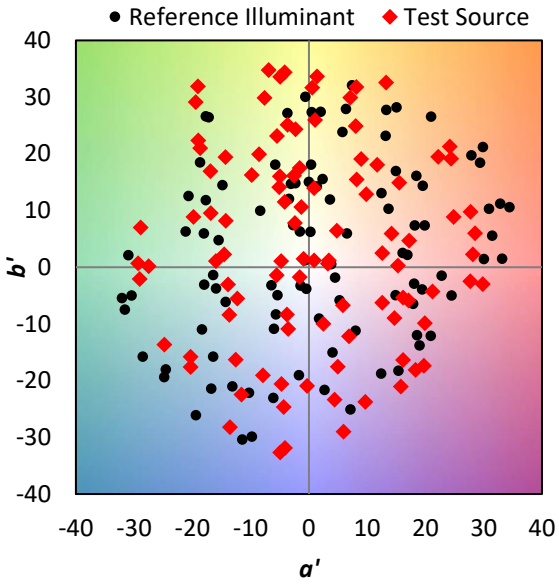
## Summary

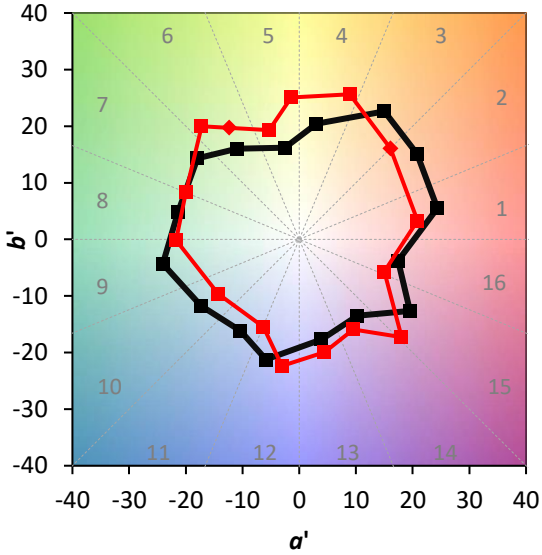
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

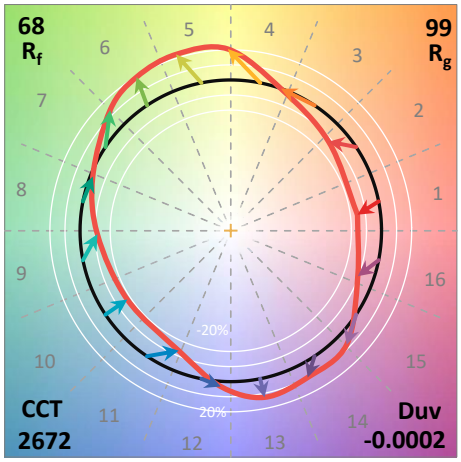
## Spectral Power Distribution Comparison

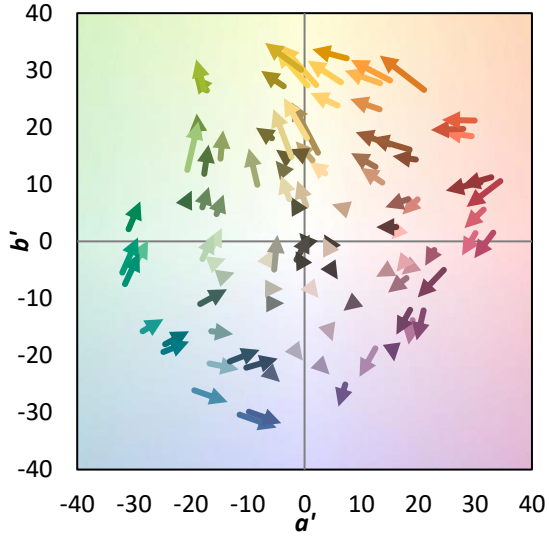



## Color Vector Graphics



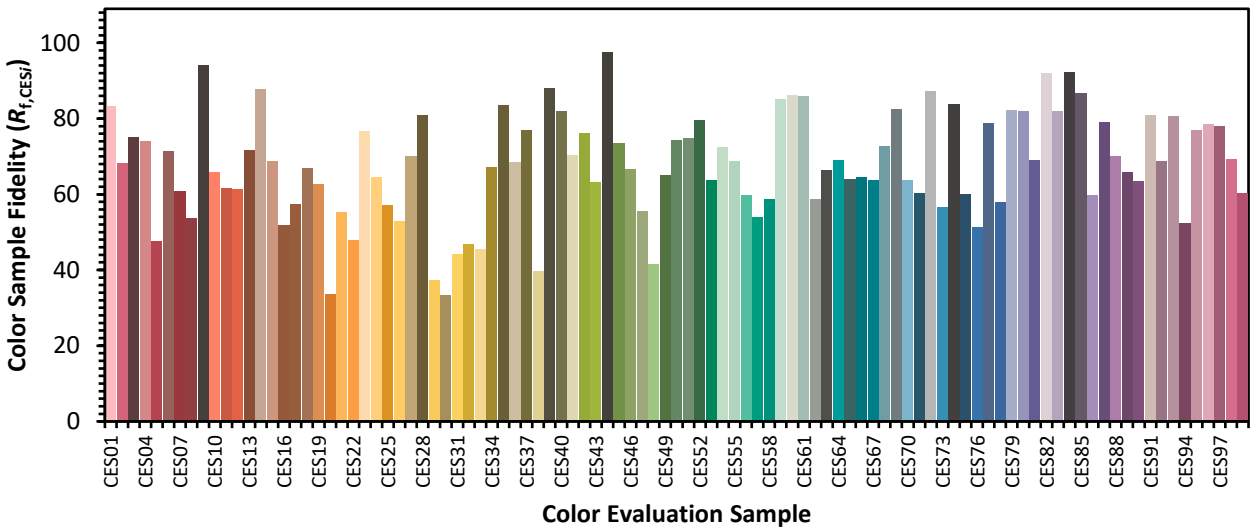



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**Individual Sample Fidelity Index ($R_{f,i}$)**

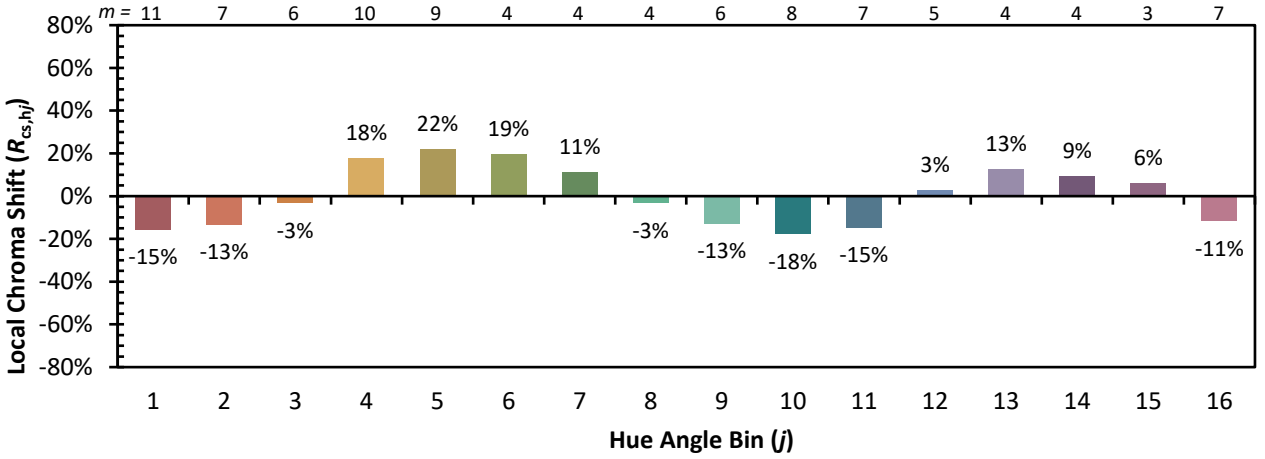
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 | |

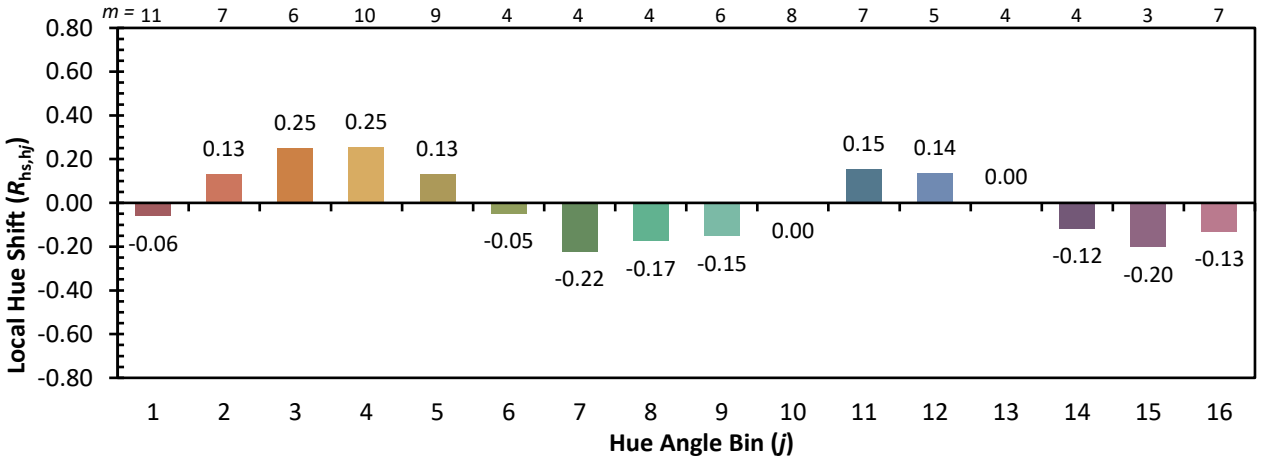


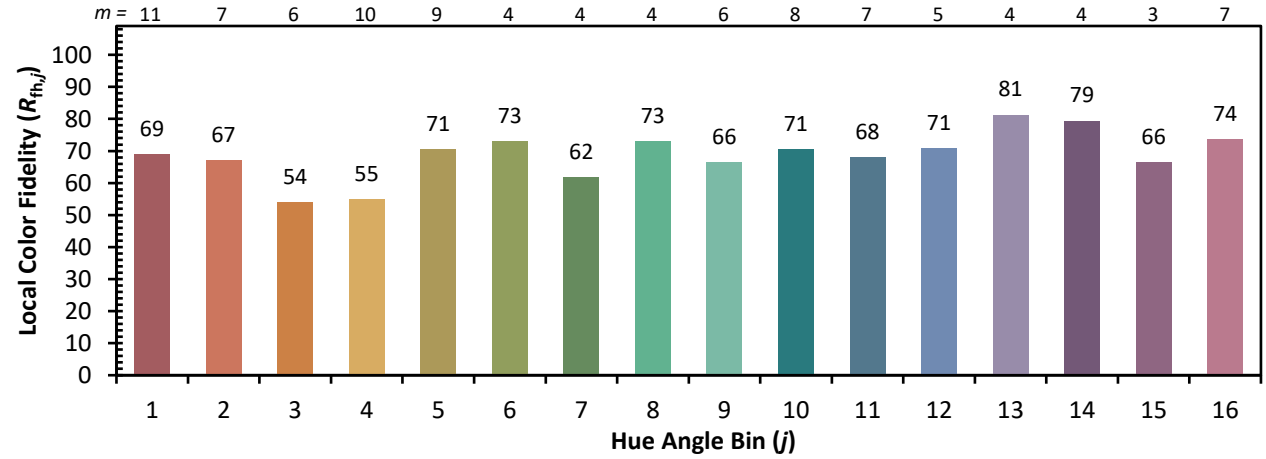
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## Color Rendition by Hue-Angle Bin



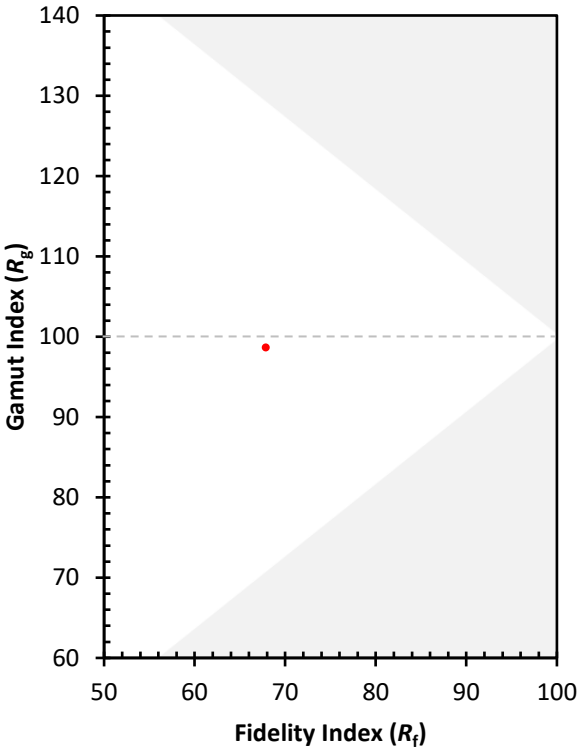



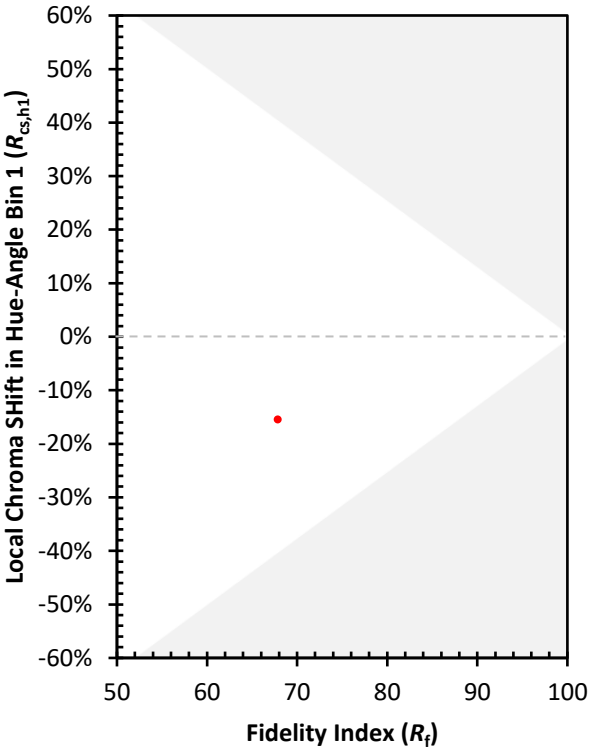



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## Measure Comparisons




(END OF REPORT)