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: P1501374

Luminaire Tested: GSS-SB1B-727-U-T2LG

Issue Date: 07/20/2026

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1501374 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1B-727-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (26) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4744.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 118.6 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B1 - U0 - G1 |

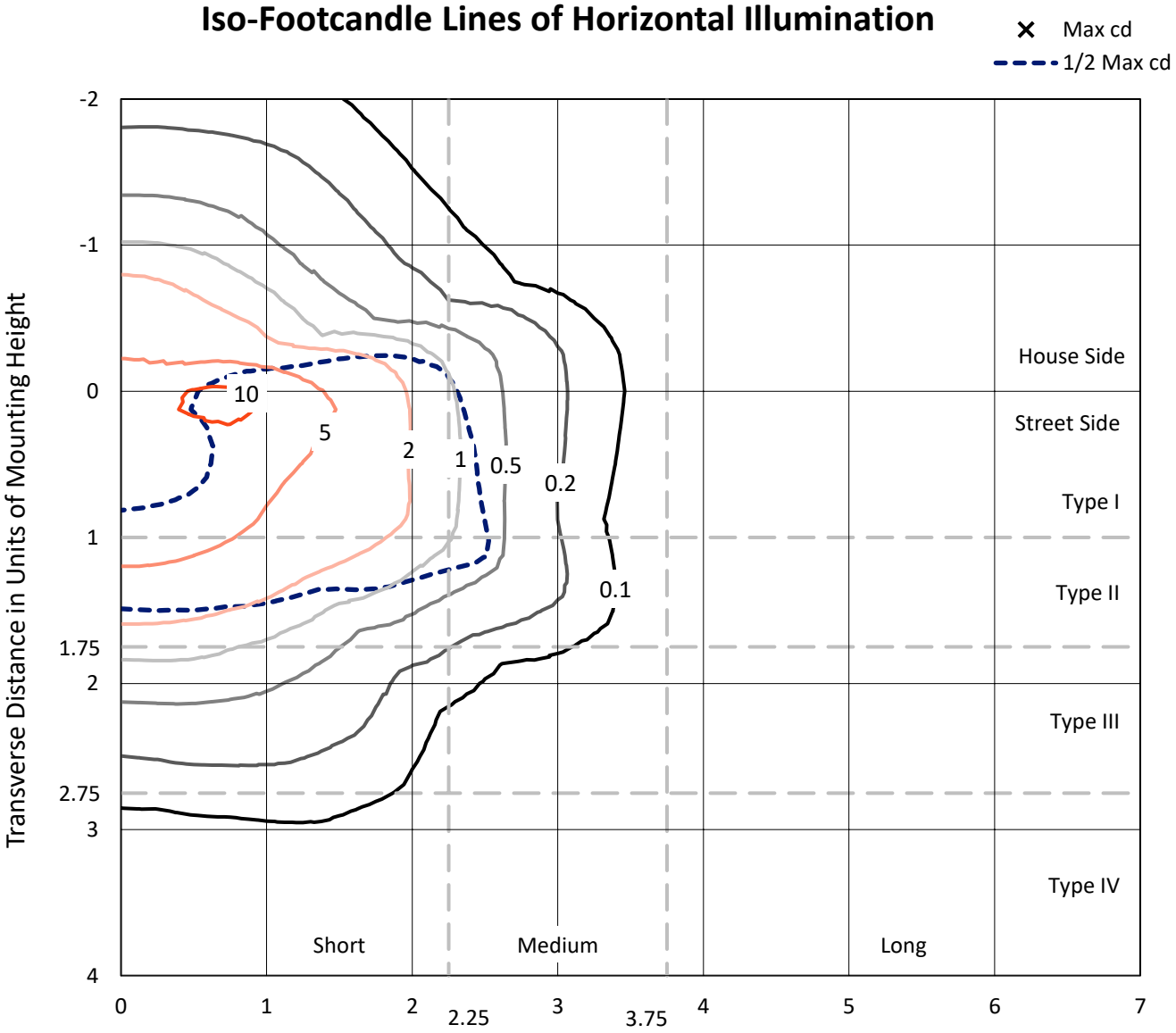
| | |
|---|---|
| Input Watts (W): | 40 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 5.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



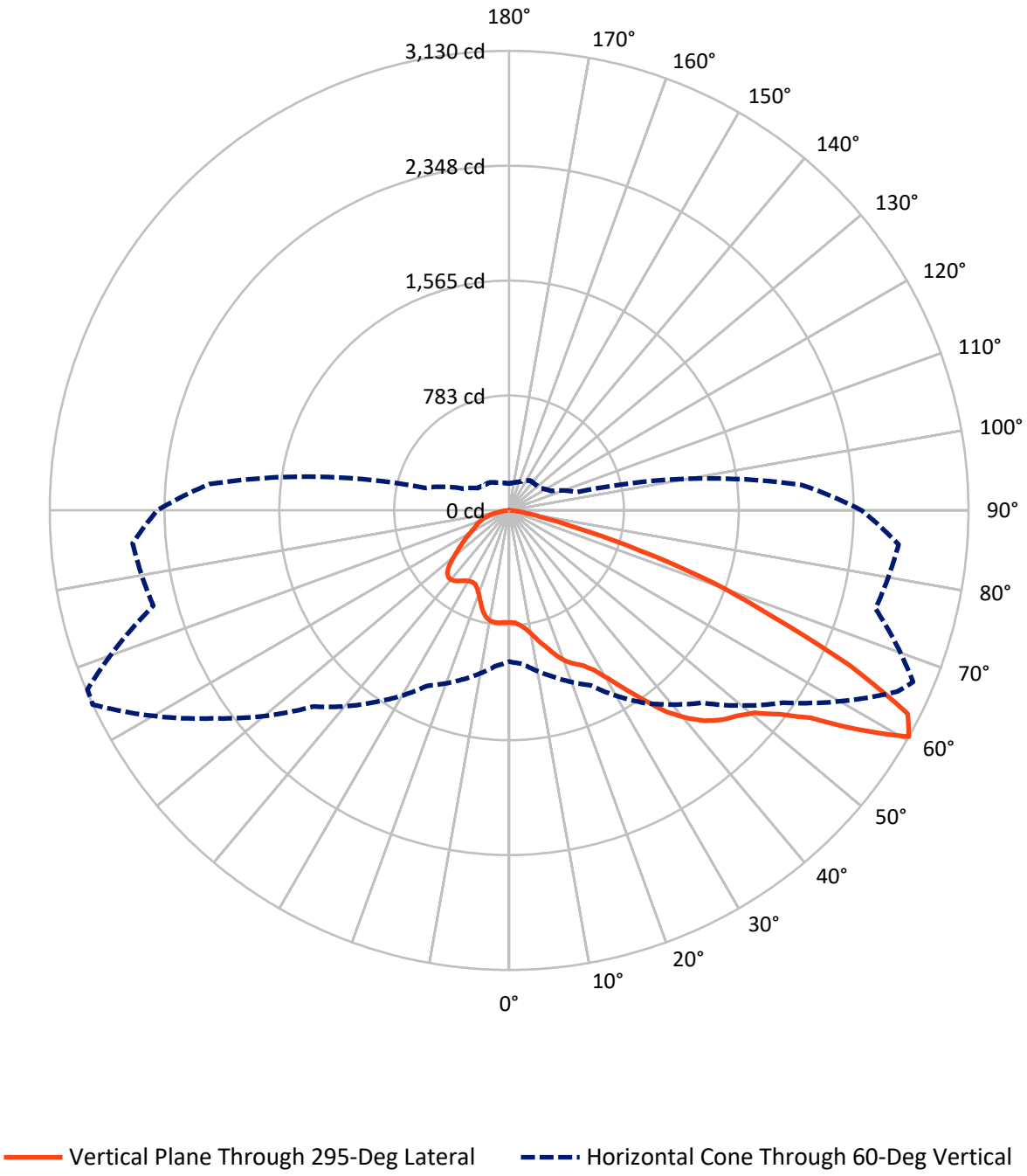

Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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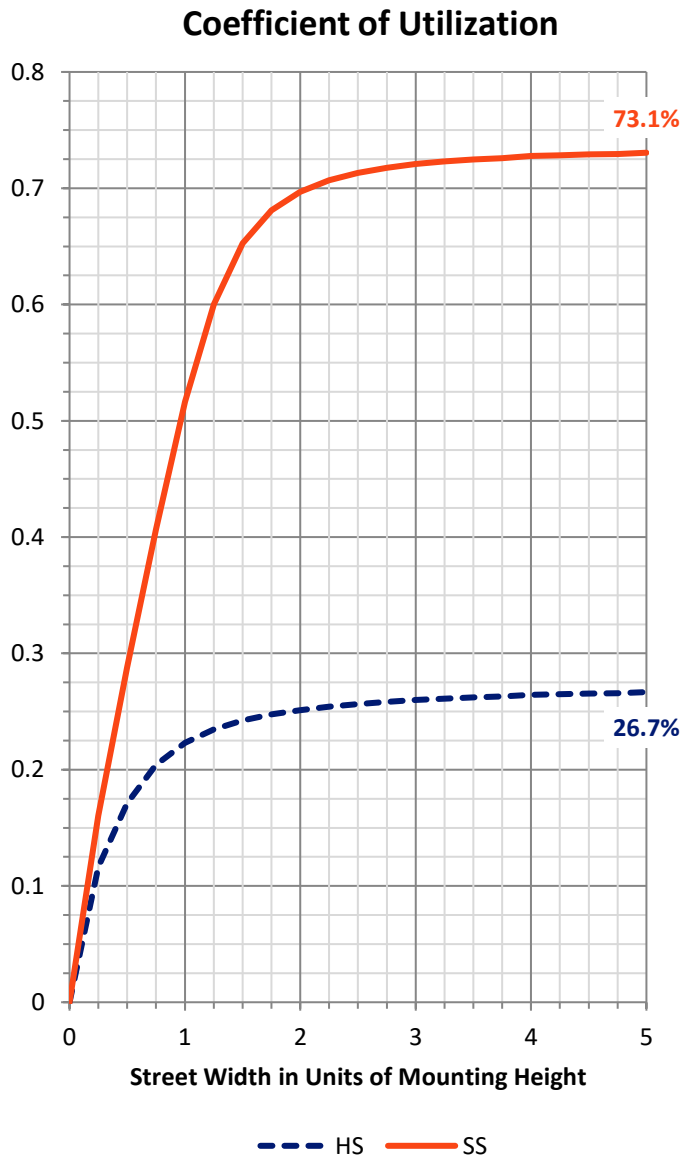
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1275.8 | 0.0 | 1275.8 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 3468.6 | 0.0 | 3468.6 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 4744.4 | 0.0 | 4744.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 71.8 | 1.5 |
| 10°-20° | 206.3 | 4.3 |
| 20°-30° | 390.8 | 8.2 |
| 30°-40° | 689.0 | 14.5 |
| 40°-50° | 1018.9 | 21.5 |
| 50°-60° | 1196.5 | 25.2 |
| 60°-70° | 866.9 | 18.3 |
| 70°-80° | 267.4 | 5.6 |
| 80°-90° | 36.8 | 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° | 4744.4 | 100.0 |
| 0°-180° | 4744.4 | 100.0 |



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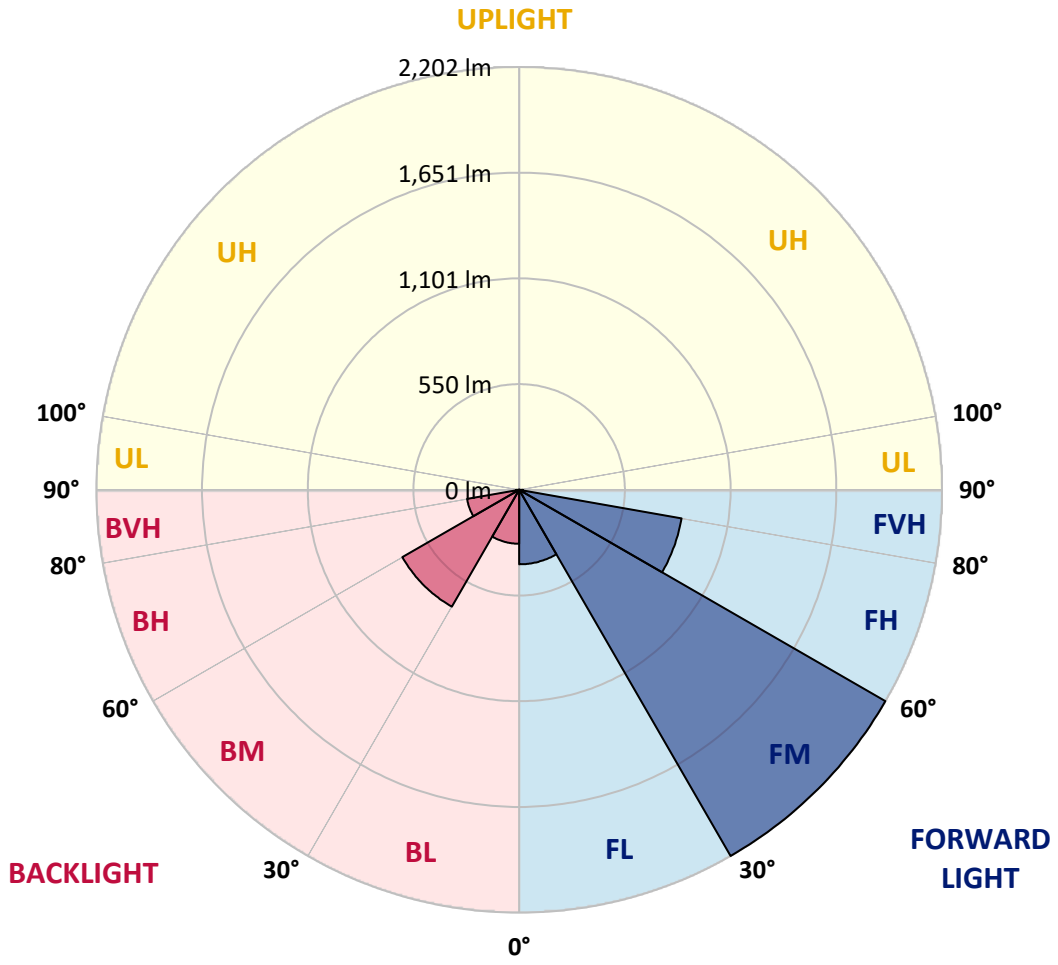
Scaled Data Report

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CATALOG NUMBER: GSS-SB1B-727-U-T2LG

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 387.9 | 8.2 | | | |
| FM | (30°-60°) | 2201.9 | 46.4 | | | |
| FH | (60°-80°) | 858.9 | 18.1 | | | G1/1800 |
| FVH | (80°-90°) | 19.9 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 281.0 | 5.9 | B1/500 | | |
| BM | (30°-60°) | 702.5 | 14.8 | B1/1000 | | |
| BH | (60°-80°) | 275.4 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.9 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 |
| 2.5° | 778.5 | 780.7 | 777.4 | 779.6 | 779.6 | 776.3 | 775.3 | 770.9 | 773.1 | 772.0 | 770.9 |
| 5° | 796.9 | 798.0 | 795.8 | 799.0 | 799.0 | 800.1 | 799.0 | 793.6 | 793.6 | 793.6 | 791.5 |
| 7.5° | 791.5 | 791.5 | 792.6 | 803.4 | 814.2 | 828.2 | 828.2 | 826.1 | 828.2 | 827.2 | 817.4 |
| 10° | 746.1 | 750.4 | 760.1 | 787.1 | 813.1 | 843.4 | 863.9 | 870.4 | 870.4 | 871.5 | 855.3 |
| 12.5° | 665.0 | 668.2 | 690.9 | 732.0 | 786.1 | 841.2 | 890.9 | 923.4 | 926.6 | 932.0 | 910.4 |
| 15° | 592.5 | 594.7 | 610.9 | 653.1 | 714.7 | 812.0 | 906.1 | 973.1 | 983.9 | 1006.6 | 974.2 |
| 17.5° | 599.0 | 597.9 | 602.3 | 618.5 | 662.8 | 764.4 | 902.8 | 1031.5 | 1051.0 | 1091.0 | 1062.9 |
| 20° | 637.9 | 637.9 | 641.2 | 644.4 | 660.6 | 729.8 | 879.1 | 1079.1 | 1116.9 | 1194.8 | 1162.3 |
| 22.5° | 699.6 | 699.6 | 698.5 | 703.9 | 703.9 | 745.0 | 880.1 | 1114.8 | 1171.0 | 1310.5 | 1279.1 |
| 25° | 785.0 | 780.7 | 780.7 | 782.8 | 773.1 | 802.3 | 907.2 | 1151.5 | 1225.0 | 1447.8 | 1420.8 |
| 27.5° | 881.2 | 884.5 | 882.3 | 874.7 | 861.8 | 884.5 | 972.0 | 1208.8 | 1285.6 | 1592.7 | 1581.9 |
| 30° | 986.1 | 987.2 | 989.3 | 985.0 | 974.2 | 990.4 | 1073.7 | 1295.3 | 1365.6 | 1744.0 | 1767.8 |
| 32.5° | 1088.8 | 1103.9 | 1098.5 | 1087.7 | 1092.1 | 1121.2 | 1199.1 | 1412.1 | 1484.5 | 1884.6 | 1968.9 |
| 35° | 1219.6 | 1225.0 | 1246.7 | 1206.7 | 1207.7 | 1257.5 | 1359.1 | 1565.6 | 1635.9 | 2030.6 | 2170.1 |
| 37.5° | 1409.9 | 1419.7 | 1409.9 | 1347.2 | 1337.5 | 1406.7 | 1514.8 | 1717.0 | 1767.8 | 2140.9 | 2357.1 |
| 40° | 1597.0 | 1608.9 | 1625.1 | 1551.6 | 1490.0 | 1547.3 | 1661.9 | 1832.7 | 1885.7 | 2201.4 | 2481.5 |
| 42.5° | 1751.6 | 1771.1 | 1753.8 | 1732.2 | 1675.9 | 1686.7 | 1764.6 | 1922.5 | 1975.4 | 2278.2 | 2606.9 |
| 45° | 1882.4 | 1885.7 | 1893.3 | 1878.1 | 1850.0 | 1840.3 | 1852.2 | 2001.4 | 2059.8 | 2312.8 | 2668.5 |
| 47.5° | 1936.5 | 1950.6 | 1957.1 | 1983.0 | 2012.2 | 1992.7 | 1926.8 | 2038.1 | 2091.1 | 2310.6 | 2688.0 |
| 50° | 1907.3 | 1921.4 | 1956.0 | 2017.6 | 2087.9 | 2122.5 | 2014.4 | 2089.0 | 2148.4 | 2349.5 | 2728.0 |
| 52.5° | 1830.5 | 1845.7 | 1901.9 | 1972.2 | 2090.0 | 2169.0 | 2137.6 | 2194.9 | 2252.2 | 2418.7 | 2795.0 |
| 55° | 1644.6 | 1667.3 | 1746.2 | 1863.0 | 2025.2 | 2144.1 | 2267.4 | 2350.6 | 2413.3 | 2502.0 | 2864.2 |
| 57.5° | 1374.3 | 1398.0 | 1486.7 | 1661.9 | 1905.2 | 2041.4 | 2305.2 | 2642.6 | 2670.7 | 2601.5 | 2870.7 |
| 60° | *1029.3* | *1048.8* | *1174.2* | *1314.8* | *1600.2* | *1853.3* | *2283.6* | *2919.4* | *2990.7* | *2584.2* | *2664.2* |
| 62.5° | 815.3 | 839.0 | 950.4 | 1015.3 | 1219.6 | 1531.0 | 2207.9 | 2996.1 | 3057.8 | 2441.4 | 2376.6 |
| 65° | 636.9 | 653.1 | 756.9 | 849.9 | 899.6 | 1045.6 | 1892.2 | 2620.9 | 2676.1 | 2209.0 | 1961.4 |
| 67.5° | 420.6 | 445.5 | 568.7 | 696.3 | 722.3 | 665.0 | 1301.8 | 2016.5 | 2042.5 | 1755.9 | 1474.8 |
| 70° | 301.7 | 313.6 | 405.5 | 541.7 | 580.6 | 445.5 | 709.3 | 1526.7 | 1534.3 | 1178.6 | 993.7 |
| 72.5° | 205.4 | 207.6 | 275.7 | 415.2 | 462.8 | 323.3 | 390.3 | 1005.6 | 979.6 | 581.7 | 568.7 |
| 75° | 139.5 | 141.6 | 176.2 | 276.8 | 327.6 | 224.9 | 254.1 | 548.2 | 526.6 | 321.1 | 344.9 |
| 77.5° | 94.1 | 96.2 | 121.1 | 186.0 | 218.4 | 155.7 | 186.0 | 289.8 | 284.4 | 213.0 | 184.9 |
| 80° | 71.4 | 74.6 | 89.7 | 118.9 | 152.5 | 90.8 | 106.0 | 137.3 | 139.5 | 113.5 | 94.1 |
| 82.5° | 40.0 | 44.3 | 54.1 | 60.5 | 98.4 | 50.8 | 50.8 | 82.2 | 78.9 | 70.3 | 50.8 |
| 85° | 17.3 | 18.4 | 21.6 | 22.7 | 40.0 | 21.6 | 18.4 | 35.7 | 36.8 | 34.6 | 16.2 |
| 87.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.3 | 4.3 | 4.3 | 4.3 |
| 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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REPORT NUMBER: P1501374
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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 |
| 2.5° | 765.5 | 772.0 | 765.5 | 762.3 | 762.3 | 756.9 | 754.7 | 754.7 | 747.1 | 750.4 | 748.2 |
| 5° | 782.8 | 785.0 | 777.4 | 767.7 | 754.7 | 743.9 | 728.8 | 709.3 | 697.4 | 696.3 | 697.4 |
| 7.5° | 809.9 | 810.9 | 790.4 | 768.8 | 736.3 | 697.4 | 650.9 | 613.1 | 579.5 | 574.1 | 580.6 |
| 10° | 847.7 | 845.5 | 815.3 | 764.4 | 696.3 | 614.1 | 542.8 | 508.2 | 488.7 | 487.6 | 486.6 |
| 12.5° | 898.5 | 884.5 | 838.0 | 746.1 | 627.1 | 532.0 | 495.2 | 493.0 | 498.5 | 502.8 | 503.9 |
| 15° | 956.9 | 938.5 | 856.3 | 710.4 | 556.8 | 501.7 | 503.9 | 522.2 | 528.7 | 533.1 | 533.1 |
| 17.5° | 1029.3 | 1005.6 | 876.9 | 659.6 | 521.2 | 508.2 | 523.3 | 540.6 | 551.4 | 555.8 | 554.7 |
| 20° | 1125.6 | 1075.8 | 893.1 | 610.9 | 511.4 | 519.0 | 532.0 | 549.3 | 560.1 | 565.5 | 565.5 |
| 22.5° | 1221.8 | 1160.2 | 896.4 | 577.4 | 511.4 | 520.1 | 532.0 | 549.3 | 561.2 | 566.6 | 565.5 |
| 25° | 1352.6 | 1268.3 | 897.4 | 553.6 | 512.5 | 514.7 | 525.5 | 540.6 | 557.9 | 563.3 | 565.5 |
| 27.5° | 1492.1 | 1387.2 | 902.8 | 548.2 | 508.2 | 507.1 | 514.7 | 528.7 | 546.0 | 560.1 | 561.2 |
| 30° | 1665.1 | 1521.3 | 905.0 | 553.6 | 509.3 | 495.2 | 500.6 | 514.7 | 533.1 | 547.1 | 551.4 |
| 32.5° | 1834.9 | 1645.7 | 900.7 | 565.5 | 511.4 | 487.6 | 488.7 | 497.4 | 516.8 | 526.6 | 534.1 |
| 35° | 2014.4 | 1777.6 | 893.1 | 581.7 | 512.5 | 484.4 | 474.7 | 479.0 | 492.0 | 493.0 | 496.3 |
| 37.5° | 2154.9 | 1876.0 | 870.4 | 603.3 | 514.7 | 472.5 | 453.0 | 449.8 | 444.4 | 433.6 | 435.7 |
| 40° | 2270.6 | 1941.9 | 832.6 | 614.1 | 509.3 | 458.4 | 426.0 | 410.9 | 390.3 | 374.1 | 377.4 |
| 42.5° | 2353.9 | 1986.2 | 787.1 | 616.3 | 500.6 | 434.7 | 394.7 | 368.7 | 346.0 | 328.7 | 329.8 |
| 45° | 2390.6 | 1981.9 | 738.5 | 600.1 | 480.1 | 405.5 | 365.5 | 340.6 | 315.7 | 297.3 | 295.2 |
| 47.5° | 2391.7 | 1939.8 | 671.5 | 561.2 | 445.5 | 371.9 | 338.4 | 311.4 | 290.9 | 277.9 | 276.8 |
| 50° | 2400.4 | 1916.0 | 608.7 | 504.9 | 400.1 | 336.3 | 314.6 | 287.6 | 275.7 | 257.3 | 251.9 |
| 52.5° | 2454.4 | 1954.9 | 565.5 | 443.3 | 357.9 | 310.3 | 294.1 | 270.3 | 250.8 | 239.0 | 237.9 |
| 55° | 2542.0 | 2021.9 | 541.7 | 396.8 | 317.9 | 285.4 | 274.6 | 254.1 | 236.8 | 224.9 | 221.7 |
| 57.5° | 2552.8 | 2056.5 | 513.6 | 353.6 | 285.4 | 266.0 | 261.7 | 239.0 | 214.1 | 205.4 | 202.2 |
| 60° | *2401.4* | *1998.1* | *479.0* | *313.6* | *261.7* | *250.8* | *248.7* | *218.4* | *197.9* | *187.1* | *182.7* |
| 62.5° | 2194.9 | 1852.2 | 426.0 | 276.8 | 243.3 | 235.7 | 227.1 | 203.3 | 177.3 | 165.4 | 162.2 |
| 65° | 1793.8 | 1557.0 | 362.2 | 251.9 | 224.9 | 216.2 | 214.1 | 181.6 | 164.3 | 157.9 | 156.8 |
| 67.5° | 1359.1 | 1251.0 | 319.0 | 233.5 | 205.4 | 202.2 | 194.6 | 183.8 | 176.2 | 168.7 | 166.5 |
| 70° | 961.2 | 902.8 | 271.4 | 209.8 | 186.0 | 180.6 | 211.9 | 200.0 | 173.0 | 163.3 | 162.2 |
| 72.5° | 582.8 | 566.6 | 234.6 | 188.1 | 160.0 | 168.7 | 195.7 | 180.6 | 155.7 | 143.8 | 139.5 |
| 75° | 367.6 | 336.3 | 196.8 | 160.0 | 127.6 | 137.3 | 170.8 | 161.1 | 134.1 | 122.2 | 118.9 |
| 77.5° | 200.0 | 186.0 | 148.1 | 130.8 | 100.6 | 111.4 | 149.2 | 133.0 | 107.0 | 116.8 | 103.8 |
| 80° | 87.6 | 97.3 | 98.4 | 75.7 | 67.0 | 82.2 | 107.0 | 103.8 | 82.2 | 83.3 | 69.2 |
| 82.5° | 42.2 | 55.1 | 63.8 | 51.9 | 37.8 | 48.7 | 71.4 | 59.5 | 55.1 | 51.9 | 49.7 |
| 85° | 13.0 | 20.5 | 28.1 | 24.9 | 17.3 | 20.5 | 33.5 | 32.4 | 38.9 | 33.5 | 31.4 |
| 87.5° | 4.3 | 4.3 | 3.2 | 3.2 | 3.2 | 4.3 | 5.4 | 3.2 | 1.1 | 1.1 | 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° | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 |
| 2.5° | 747.1 | 748.2 | 748.2 | 749.3 | 749.3 | 752.5 | 756.9 | 761.2 | 758.0 | 762.3 | 763.4 |
| 5° | 695.2 | 700.6 | 705.0 | 721.2 | 734.2 | 745.0 | 756.9 | 767.7 | 770.9 | 773.1 | 778.5 |
| 7.5° | 573.1 | 588.2 | 616.3 | 653.1 | 694.2 | 734.2 | 761.2 | 789.3 | 793.6 | 799.0 | 806.6 |
| 10° | 487.6 | 494.1 | 513.6 | 551.4 | 625.0 | 703.9 | 769.8 | 814.2 | 832.6 | 843.4 | 850.9 |
| 12.5° | 501.7 | 497.4 | 494.1 | 499.5 | 547.1 | 648.7 | 764.4 | 849.9 | 884.5 | 896.4 | 906.1 |
| 15° | 535.2 | 530.9 | 519.0 | 503.9 | 509.3 | 590.4 | 746.1 | 883.4 | 938.5 | 958.0 | 978.5 |
| 17.5° | 554.7 | 550.4 | 540.6 | 524.4 | 510.3 | 541.7 | 711.5 | 913.7 | 1023.9 | 1047.7 | 1076.9 |
| 20° | 565.5 | 561.2 | 551.4 | 535.2 | 519.0 | 523.3 | 667.1 | 951.5 | 1121.2 | 1159.1 | 1202.3 |
| 22.5° | 567.7 | 562.2 | 551.4 | 535.2 | 525.5 | 522.2 | 625.0 | 974.2 | 1226.1 | 1284.5 | 1334.3 |
| 25° | 566.6 | 556.8 | 542.8 | 530.9 | 525.5 | 524.4 | 595.8 | 987.2 | 1339.7 | 1432.6 | 1488.9 |
| 27.5° | 559.0 | 547.1 | 533.1 | 524.4 | 522.2 | 528.7 | 582.8 | 1002.3 | 1472.7 | 1591.6 | 1681.3 |
| 30° | 550.4 | 533.1 | 515.8 | 512.5 | 517.9 | 538.5 | 593.6 | 1007.7 | 1612.1 | 1764.6 | 1856.5 |
| 32.5° | 527.6 | 514.7 | 497.4 | 496.3 | 509.3 | 546.0 | 618.5 | 1000.2 | 1735.4 | 1937.6 | 2053.3 |
| 35° | 495.2 | 487.6 | 477.9 | 481.2 | 501.7 | 552.5 | 635.8 | 976.4 | 1847.8 | 2098.7 | 2233.8 |
| 37.5° | 437.9 | 443.3 | 448.7 | 456.3 | 482.2 | 551.4 | 643.3 | 938.5 | 1940.8 | 2227.4 | 2400.4 |
| 40° | 374.1 | 392.5 | 409.8 | 429.3 | 463.9 | 542.8 | 645.5 | 892.0 | 1994.9 | 2324.7 | 2548.5 |
| 42.5° | 334.1 | 351.4 | 373.0 | 401.1 | 439.0 | 523.3 | 643.3 | 840.1 | 2012.2 | 2391.7 | 2642.6 |
| 45° | 297.3 | 317.9 | 344.9 | 374.1 | 417.4 | 495.2 | 623.9 | 783.9 | 2020.8 | 2423.1 | 2682.6 |
| 47.5° | 277.9 | 289.8 | 314.6 | 343.8 | 389.2 | 460.6 | 586.0 | 742.8 | 2007.9 | 2429.6 | 2731.2 |
| 50° | 255.2 | 271.4 | 287.6 | 315.7 | 360.1 | 417.4 | 540.6 | 719.0 | 2029.5 | 2493.3 | 2808.0 |
| 52.5° | 237.9 | 246.5 | 263.8 | 289.8 | 322.2 | 377.4 | 497.4 | 699.6 | 2089.0 | 2558.2 | 2888.0 |
| 55° | 224.9 | 234.6 | 245.4 | 267.1 | 291.9 | 337.3 | 453.0 | 670.4 | 2158.2 | 2627.4 | 2968.0 |
| 57.5° | 204.4 | 210.8 | 226.0 | 248.7 | 264.9 | 298.4 | 401.1 | 635.8 | 2152.8 | 2573.4 | 2829.6 |
| 60° | *186.0* | *192.5* | *208.7* | *231.4* | *241.1* | *263.8* | *350.3* | *591.4* | *2049.0* | *2397.1* | *2574.4* |
| 62.5° | 165.4 | 173.0 | 192.5 | 208.7 | 217.3 | 234.6 | 297.3 | 510.3 | 1832.7 | 2132.2 | 2276.0 |
| 65° | 156.8 | 161.1 | 174.1 | 193.5 | 192.5 | 208.7 | 250.8 | 401.1 | 1474.8 | 1629.4 | 1760.3 |
| 67.5° | 166.5 | 173.0 | 170.8 | 176.2 | 173.0 | 181.6 | 224.9 | 322.2 | 1159.1 | 1227.2 | 1302.9 |
| 70° | 164.3 | 179.5 | 187.1 | 176.2 | 151.4 | 161.1 | 194.6 | 257.3 | 829.3 | 822.8 | 819.6 |
| 72.5° | 143.8 | 158.9 | 180.6 | 191.4 | 148.1 | 134.1 | 168.7 | 222.7 | 532.0 | 529.8 | 479.0 |
| 75° | 122.2 | 133.0 | 158.9 | 173.0 | 127.6 | 108.1 | 144.9 | 189.2 | 317.9 | 322.2 | 287.6 |
| 77.5° | 112.4 | 107.0 | 133.0 | 152.5 | 103.8 | 83.3 | 116.8 | 142.7 | 175.2 | 177.3 | 164.3 |
| 80° | 81.1 | 77.8 | 99.5 | 111.4 | 78.9 | 59.5 | 66.0 | 88.7 | 94.1 | 84.3 | 87.6 |
| 82.5° | 51.9 | 53.0 | 59.5 | 71.4 | 48.7 | 32.4 | 45.4 | 59.5 | 50.8 | 41.1 | 48.7 |
| 85° | 33.5 | 37.8 | 31.4 | 36.8 | 15.1 | 15.1 | 19.5 | 25.9 | 17.3 | 11.9 | 13.0 |
| 87.5° | 0.0 | 0.0 | 2.2 | 4.3 | 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: P1501374
CATALOG NUMBER: GSS-SB1B-727-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 763.4 | 763.4 | *763.4* | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 | 763.4 |
| 2.5° | 766.6 | 765.5 | *765.5* | 767.7 | 773.1 | 775.3 | 778.5 | 777.4 | 780.7 | 778.5 |
| 5° | 781.7 | 782.8 | *786.1* | 787.1 | 790.4 | 794.7 | 795.8 | 794.7 | 796.9 | 796.9 |
| 7.5° | 812.0 | 816.3 | *814.2* | 819.6 | 815.3 | 809.9 | 801.2 | 794.7 | 789.3 | 791.5 |
| 10° | 862.8 | 860.7 | *859.6* | 849.9 | 830.4 | 802.3 | 779.6 | 754.7 | 750.4 | 746.1 |
| 12.5° | 919.1 | 916.9 | *916.9* | 883.4 | 828.2 | 769.8 | 717.9 | 679.0 | 666.0 | 665.0 |
| 15° | 998.0 | 983.9 | *971.0* | 900.7 | 790.4 | 690.9 | 630.4 | 600.1 | 592.5 | 592.5 |
| 17.5° | 1096.4 | 1059.6 | *1038.0* | 887.7 | 728.8 | 639.0 | 603.3 | 595.8 | 593.6 | 599.0 |
| 20° | 1218.6 | 1125.6 | *1094.2* | 858.5 | 706.1 | 645.5 | 628.2 | 629.3 | 630.4 | 637.9 |
| 22.5° | 1352.6 | 1186.1 | *1134.2* | 858.5 | 728.8 | 686.6 | 677.9 | 689.8 | 693.1 | 699.6 |
| 25° | 1501.8 | 1240.2 | *1169.9* | 903.9 | 795.8 | 764.4 | 753.6 | 765.5 | 774.2 | 785.0 |
| 27.5° | 1669.4 | 1296.4 | *1231.5* | 986.1 | 882.3 | 862.8 | 850.9 | 856.3 | 868.2 | 881.2 |
| 30° | 1819.7 | 1390.5 | *1325.6* | 1111.5 | 1000.2 | 976.4 | 955.8 | 964.5 | 977.4 | 986.1 |
| 32.5° | 1952.7 | 1505.1 | *1449.9* | 1243.4 | 1135.3 | 1094.2 | 1071.5 | 1069.3 | 1095.3 | 1088.8 |
| 35° | 2074.9 | 1640.2 | *1587.3* | 1393.7 | 1272.6 | 1221.8 | 1191.5 | 1230.5 | 1213.2 | 1219.6 |
| 37.5° | 2171.1 | 1780.8 | *1738.6* | 1537.5 | 1415.3 | 1346.1 | 1327.8 | 1375.3 | 1402.4 | 1409.9 |
| 40° | 2250.1 | 1903.0 | *1858.7* | 1680.3 | 1546.2 | 1495.4 | 1524.6 | 1603.5 | 1600.2 | 1597.0 |
| 42.5° | 2310.6 | 2007.9 | *1959.2* | 1788.4 | 1671.6 | 1681.3 | 1704.0 | 1757.0 | 1770.0 | 1751.6 |
| 45° | 2337.6 | 2073.8 | *2034.9* | 1873.8 | 1814.3 | 1870.6 | 1880.3 | 1903.0 | 1894.3 | 1882.4 |
| 47.5° | 2369.0 | 2132.2 | *2091.1* | 1951.6 | 1968.9 | 2024.1 | 2004.6 | 1986.2 | 1954.9 | 1936.5 |
| 50° | 2422.0 | 2201.4 | *2166.8* | 2065.2 | 2127.9 | 2109.5 | 2033.8 | 1992.7 | 1928.9 | 1907.3 |
| 52.5° | 2522.5 | 2332.2 | *2306.3* | 2244.7 | 2202.5 | 2096.5 | 2004.6 | 1931.1 | 1859.7 | 1830.5 |
| 55° | 2612.3 | 2509.6 | *2494.4* | 2412.3 | 2179.8 | 2028.4 | 1905.2 | 1791.6 | 1669.4 | 1644.6 |
| 57.5° | 2664.2 | 2803.7 | *2821.0* | 2483.6 | 2076.0 | 1873.8 | 1692.1 | 1510.5 | 1394.8 | 1374.3 |
| 60° | *2509.6* | *3121.5* | *3130.2* | *2469.6* | *1888.9* | *1594.8* | *1318.0* | *1189.4* | *1065.0* | *1029.3* |
| 62.5° | 2296.6 | 3055.6 | *3048.0* | 2385.2 | 1504.0 | 1163.4 | 1001.2 | 940.7 | 844.5 | 815.3 |
| 65° | 1974.4 | 2545.2 | *2553.9* | 2060.8 | 1000.2 | 841.2 | 841.2 | 764.4 | 657.4 | 636.9 |
| 67.5° | 1608.9 | 1962.5 | *1943.0* | 1336.4 | 614.1 | 673.6 | 706.1 | 595.8 | 445.5 | 420.6 |
| 70° | 1045.6 | 1498.6 | *1471.6* | 770.9 | 386.0 | 561.2 | 555.8 | 447.6 | 319.0 | 301.7 |
| 72.5° | 449.8 | 866.1 | *921.2* | 393.6 | 290.9 | 452.0 | 443.3 | 313.6 | 213.0 | 205.4 |
| 75° | 271.4 | 435.7 | *474.7* | 250.8 | 211.9 | 340.6 | 307.1 | 198.9 | 144.9 | 139.5 |
| 77.5° | 171.9 | 239.0 | *236.8* | 188.1 | 158.9 | 230.3 | 206.5 | 137.3 | 98.4 | 94.1 |
| 80° | 99.5 | 117.9 | *122.2* | 117.9 | 107.0 | 164.3 | 131.9 | 99.5 | 76.8 | 71.4 |
| 82.5° | 63.8 | 73.5 | *74.6* | 57.3 | 59.5 | 106.0 | 71.4 | 58.4 | 44.3 | 40.0 |
| 85° | 28.1 | 31.4 | *30.3* | 19.5 | 19.5 | 43.2 | 24.9 | 23.8 | 17.3 | 17.3 |
| 87.5° | 1.1 | 2.2 | *1.1* | 1.1 | 1.1 | 4.3 | 2.2 | 3.2 | 3.2 | 3.2 |
| 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

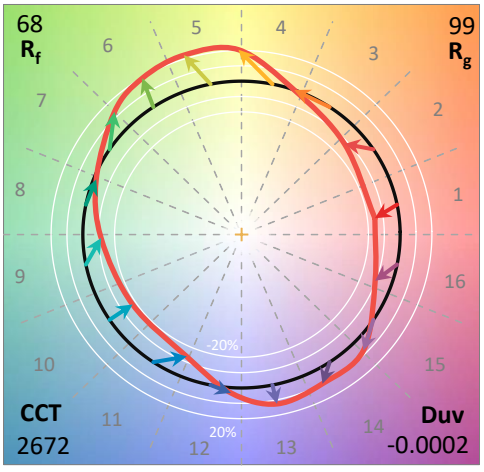
## Test Information

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

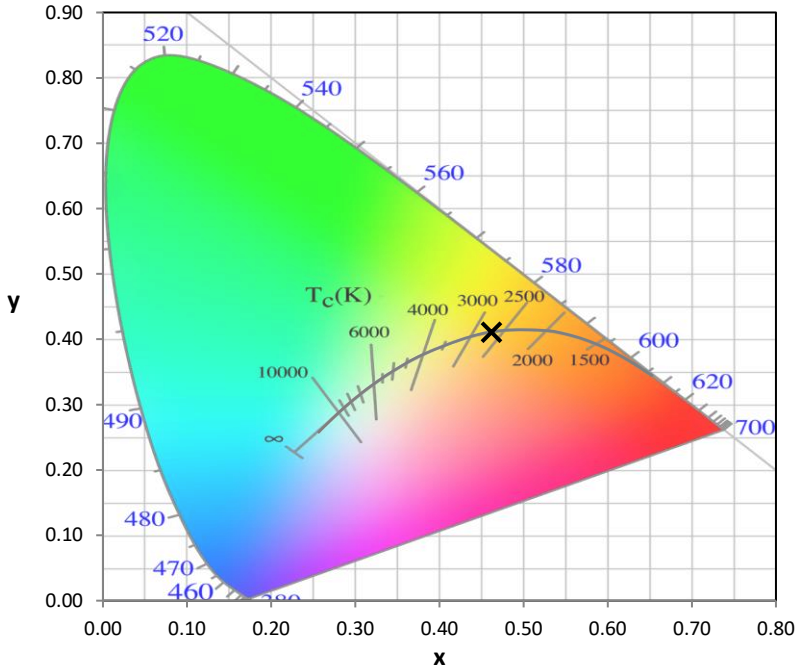
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

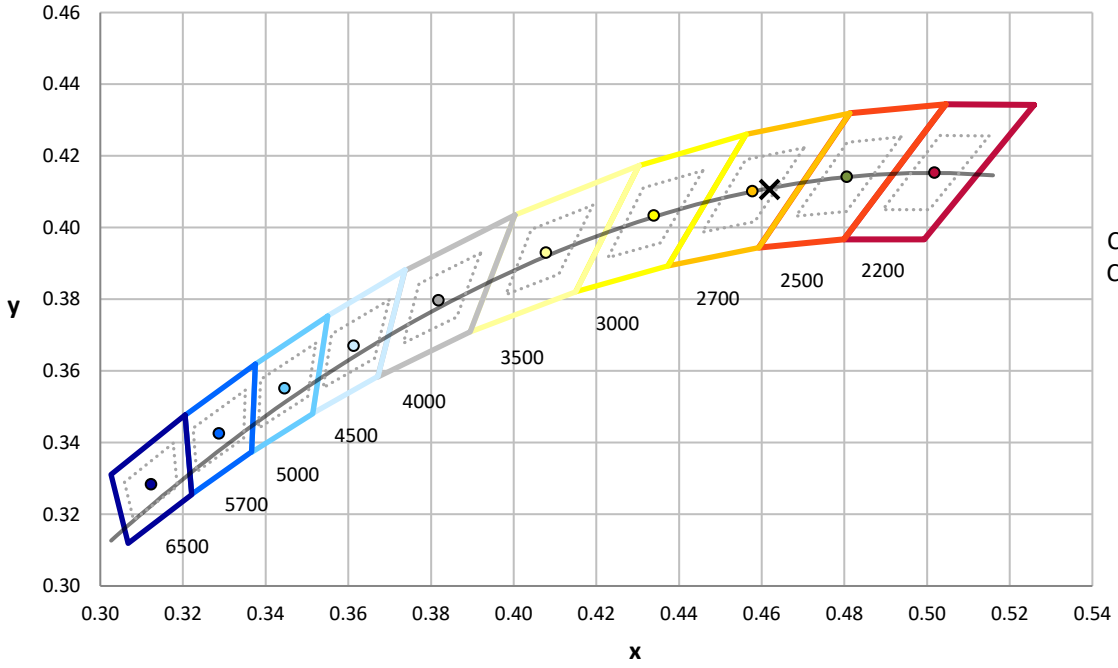
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

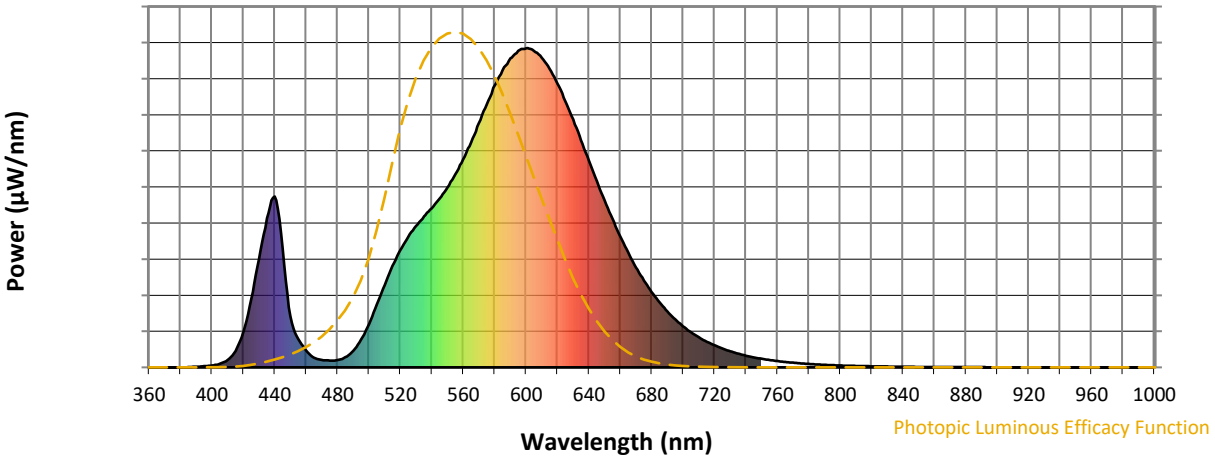



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

## Photopic Flux vs. Wavelength

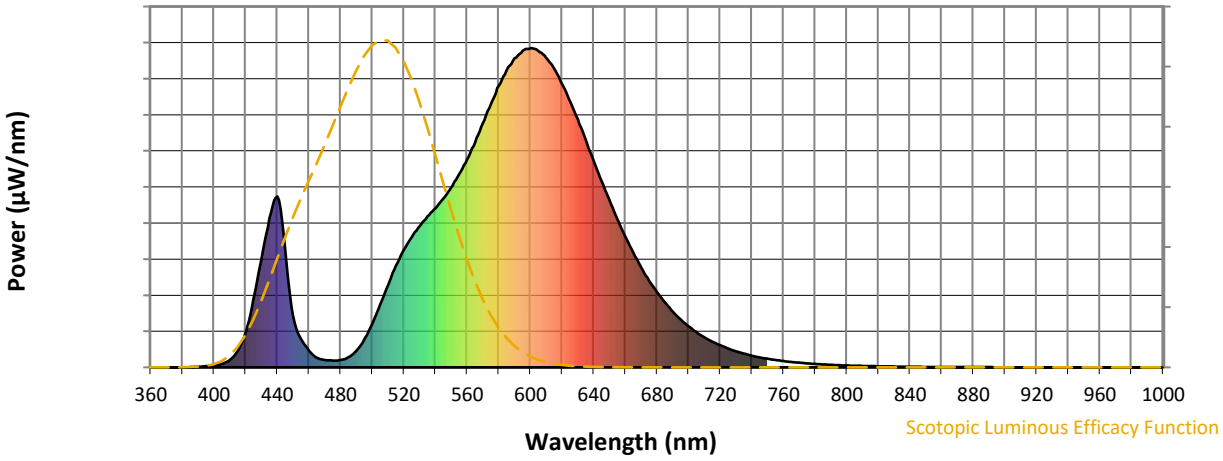



## Photopic Lumens: NR

| 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

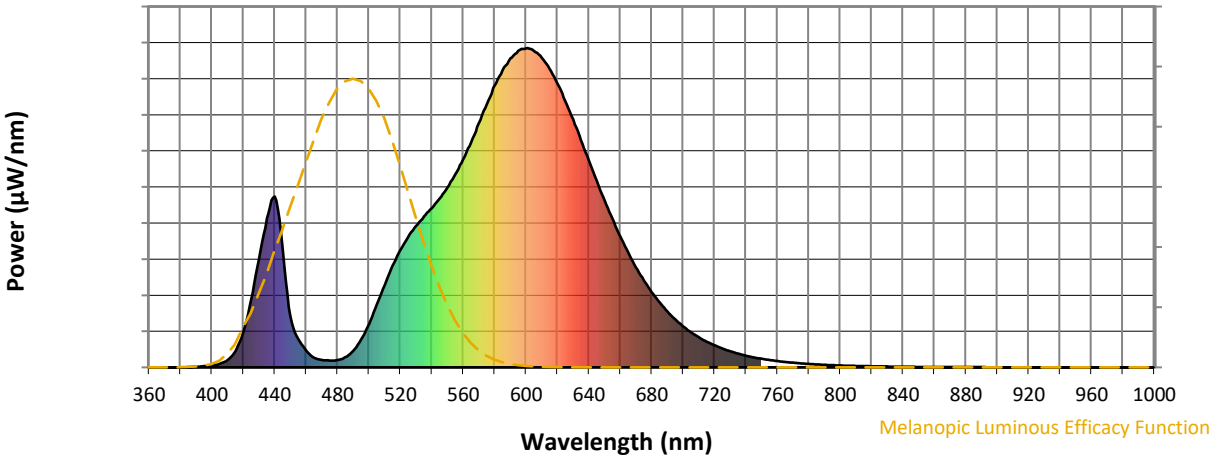



**Scotopic Lumens: NR** **S/P: 1.02**

| 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 | | | |

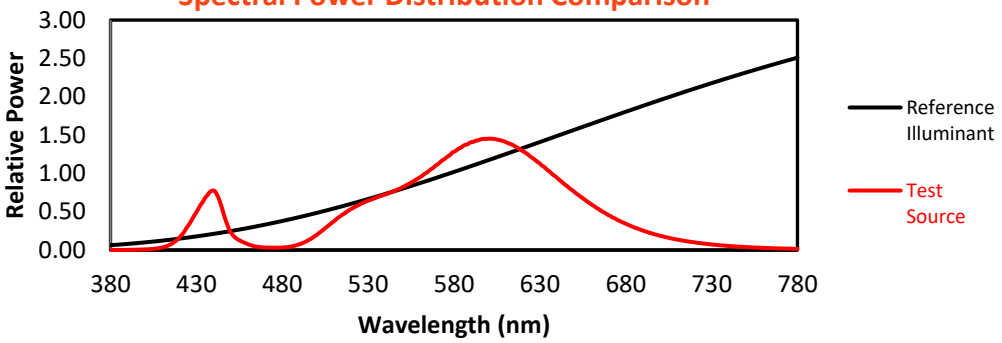
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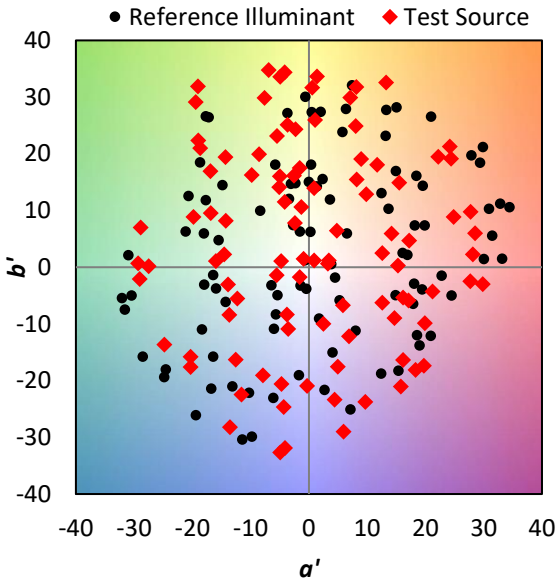
## Summary

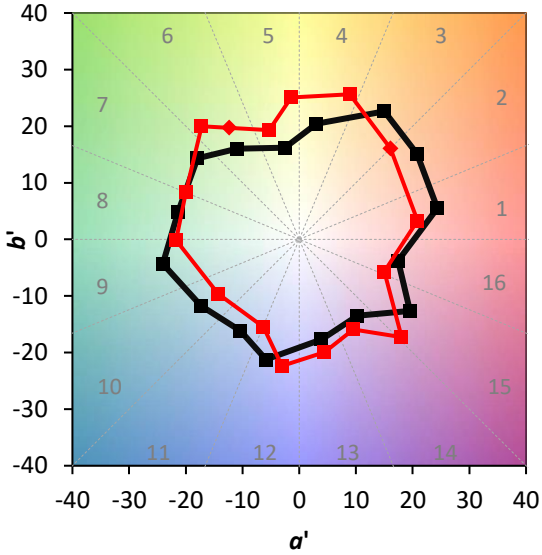
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

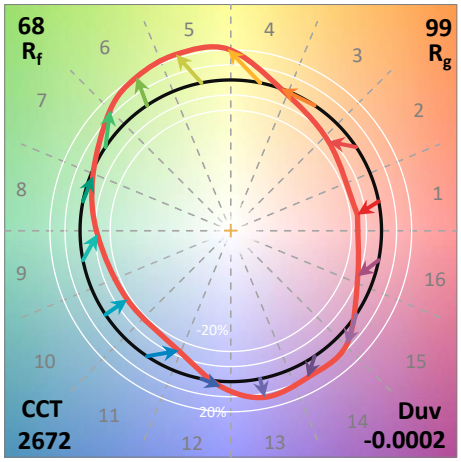
## Spectral Power Distribution Comparison

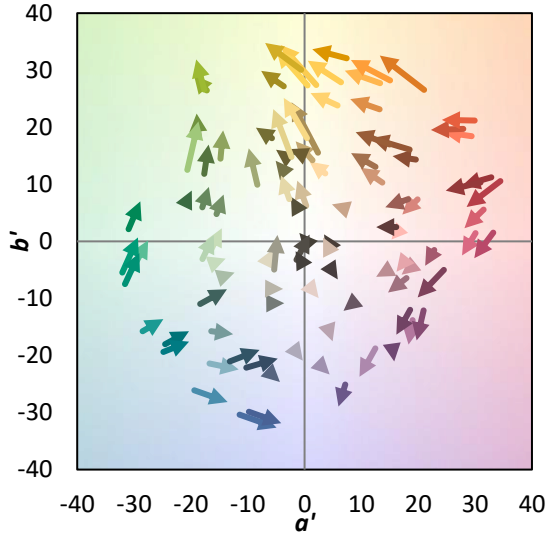



## Color Vector Graphics



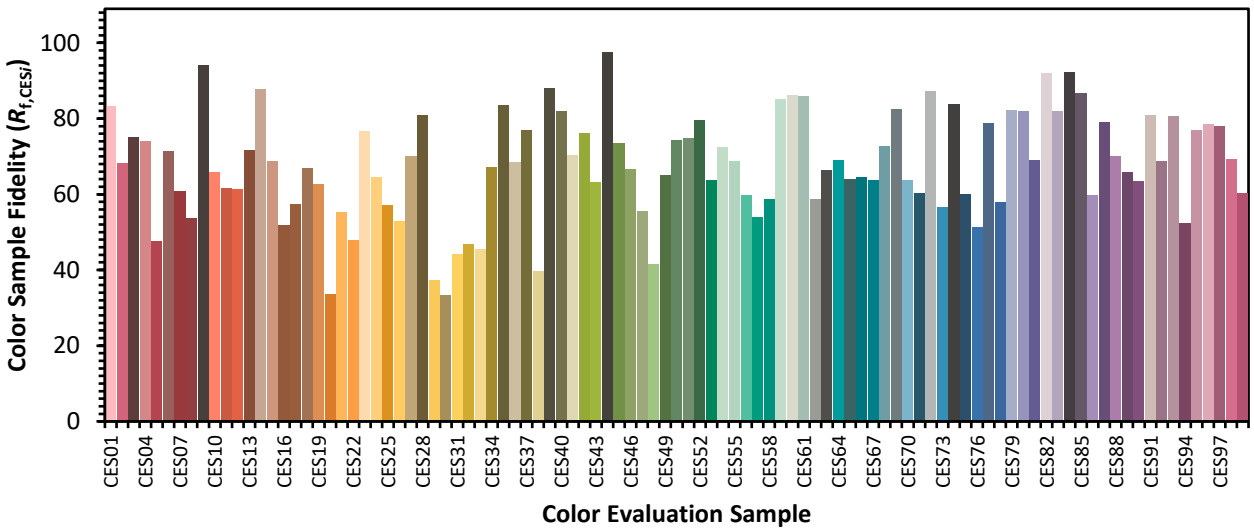



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**Individual Sample Fidelity Index ($R_{f,i}$)**

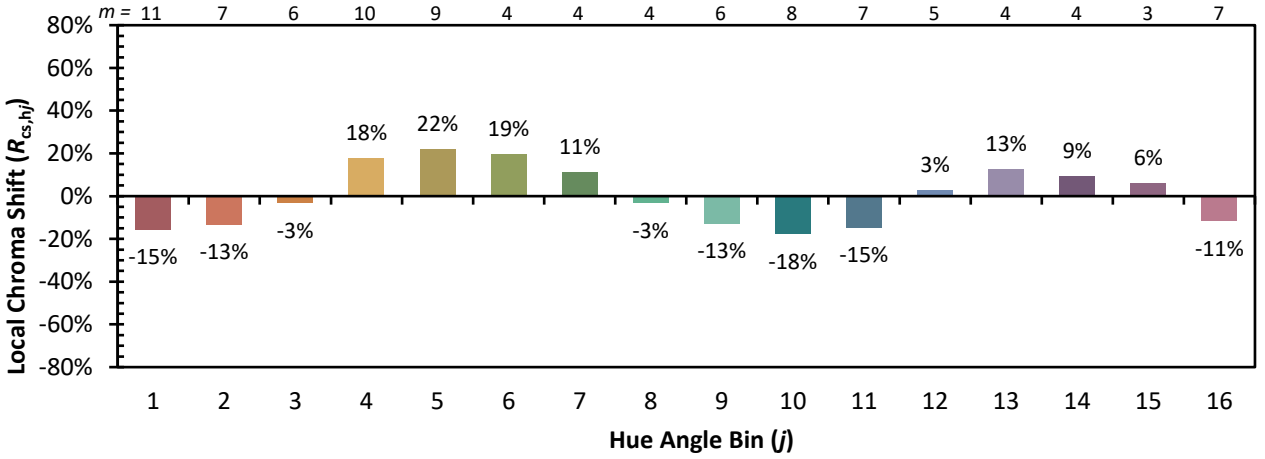
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 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 | |

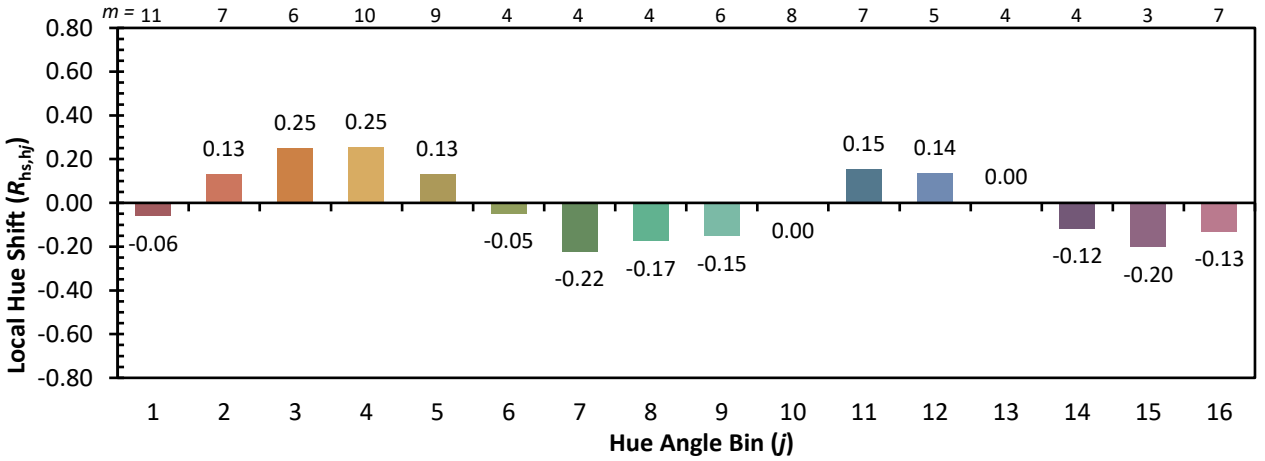


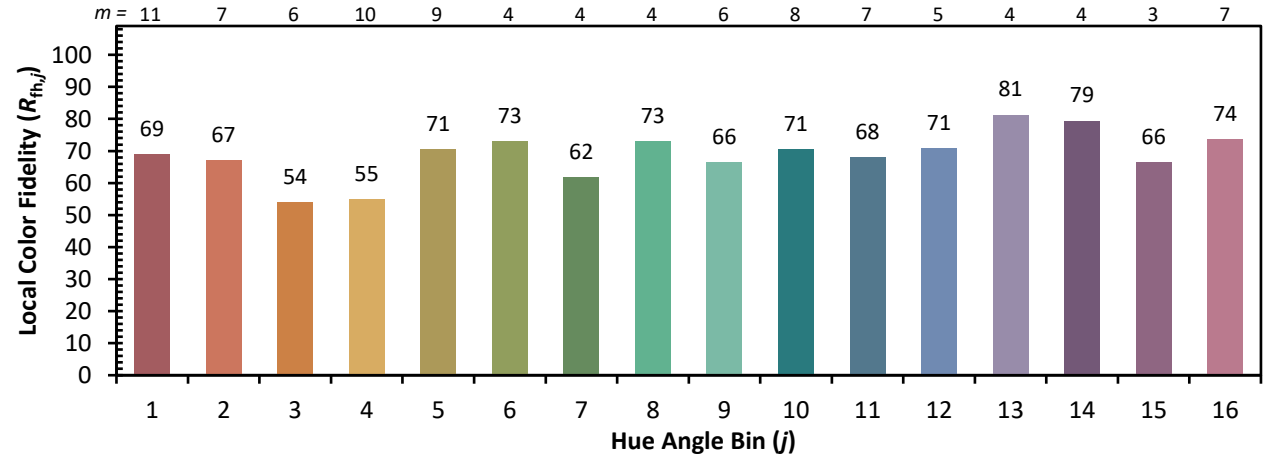
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## Color Rendition by Hue-Angle Bin



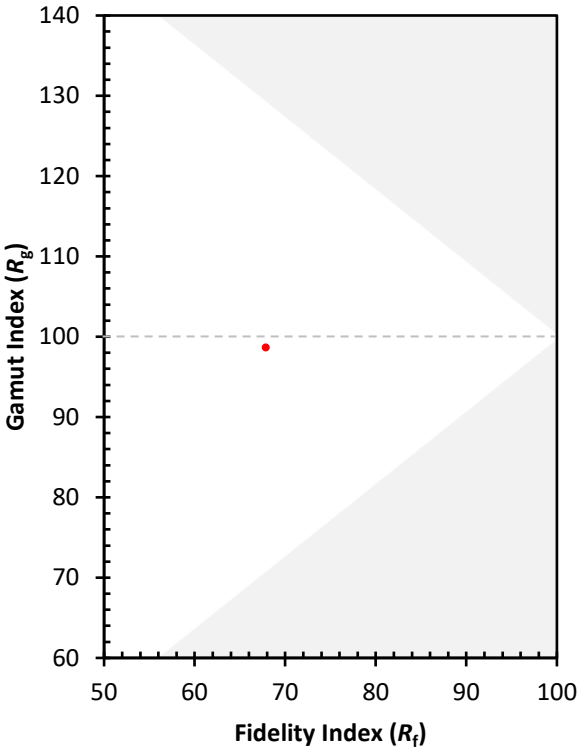



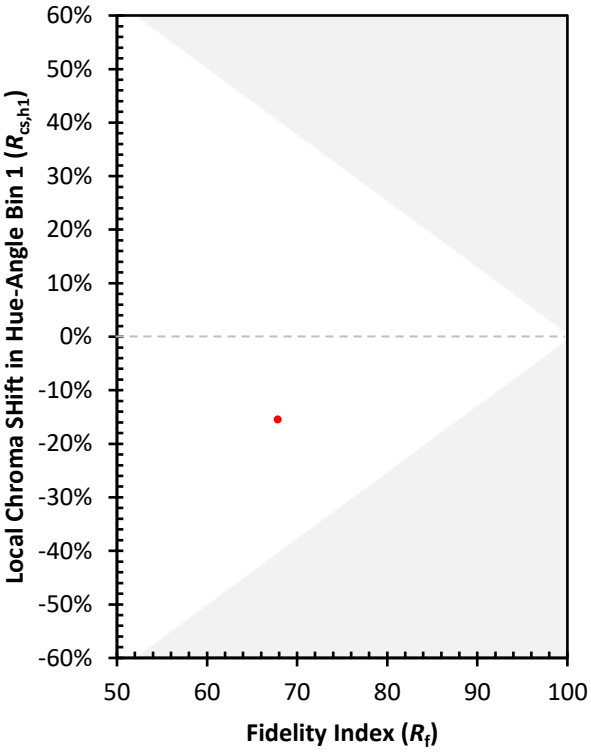



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## Measure Comparisons




(END OF REPORT)