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: P1501565

Luminaire Tested: GSS-SB1A-840-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: | P1501565 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1A-840-U-T2LG |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 31W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE |
| Light Source: | (26) 4000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3882.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 125.2 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 |

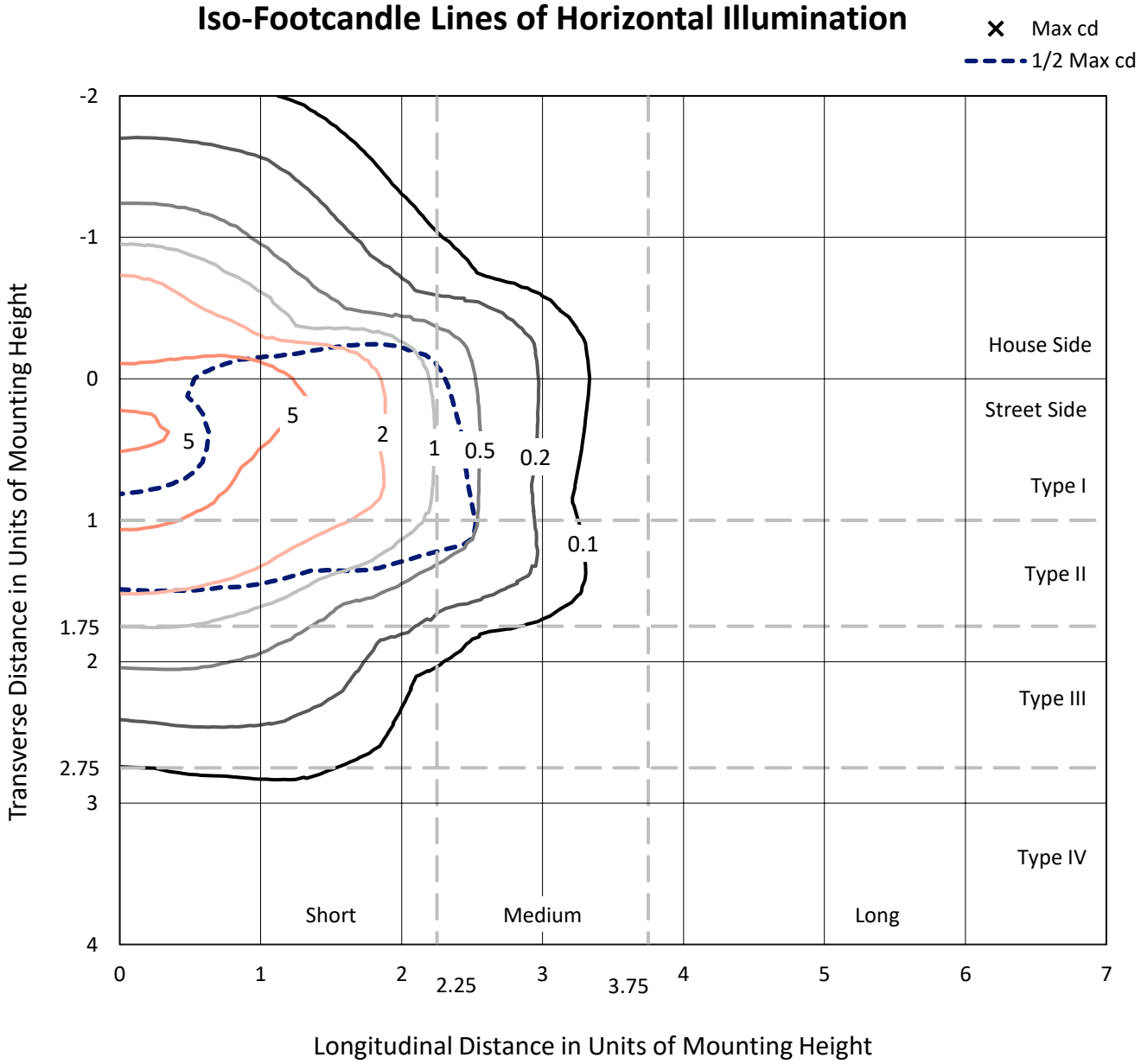
| | |
|---|---|
| Input Watts (W): | 31 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 6.4% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



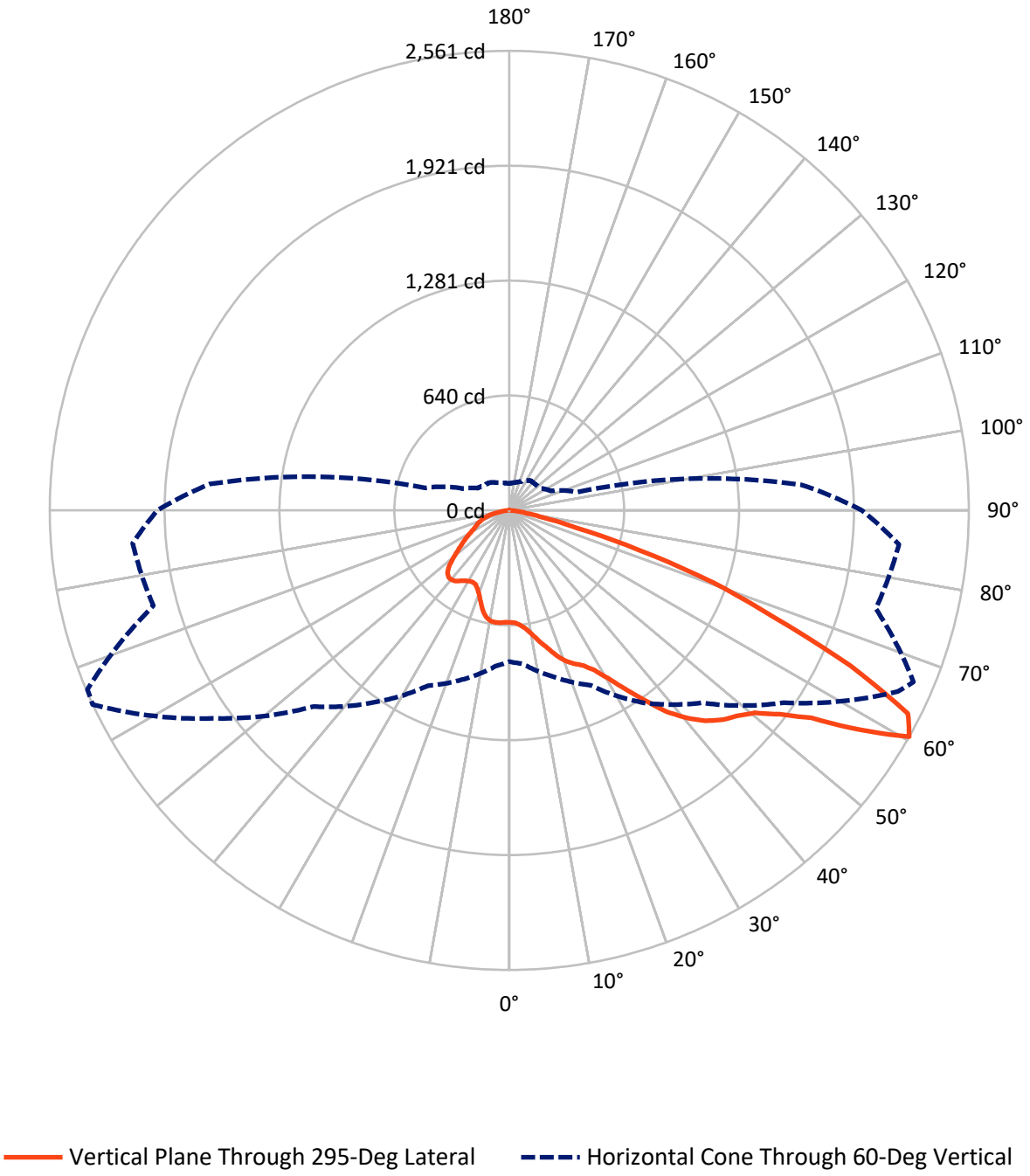

Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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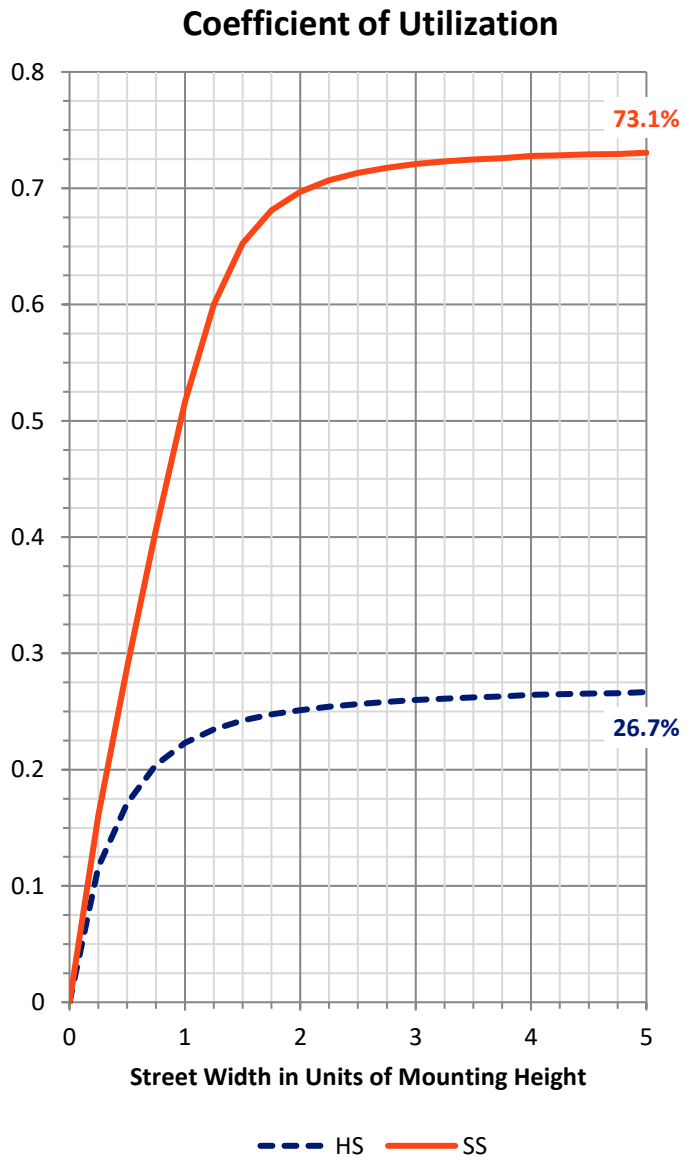
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1043.9 | 0.0 | 1043.9 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 2838.1 | 0.0 | 2838.1 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 3882.1 | 0.0 | 3882.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 58.7 | 1.5 |
| 10°-20° | 168.8 | 4.3 |
| 20°-30° | 319.8 | 8.2 |
| 30°-40° | 563.8 | 14.5 |
| 40°-50° | 833.7 | 21.5 |
| 50°-60° | 979.0 | 25.2 |
| 60°-70° | 709.3 | 18.3 |
| 70°-80° | 218.8 | 5.6 |
| 80°-90° | 30.1 | 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° | 3882.1 | 100.0 |
| 0°-180° | 3882.1 | 100.0 |



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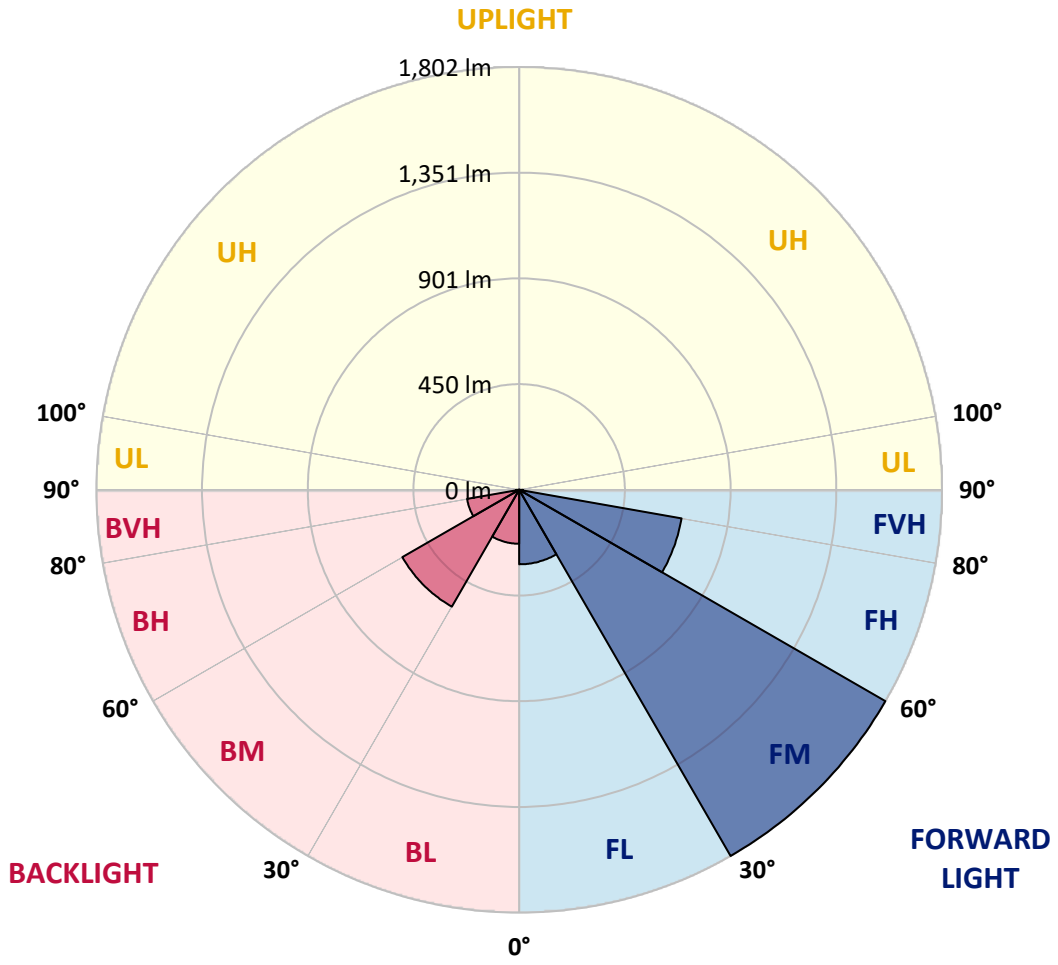
Scaled Data Report

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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°) | 317.4 | 8.2 | | | |
| FM | (30°-60°) | 1801.7 | 46.4 | | | |
| FH | (60°-80°) | 702.8 | 18.1 | | | G1/1800 |
| FVH | (80°-90°) | 16.2 | 0.4 | | | G1/100 |
| BL | (0°-30°) | 229.9 | 5.9 | B1/500 | | |
| BM | (30°-60°) | 574.8 | 14.8 | B1/1000 | | |
| BH | (60°-80°) | 225.3 | 5.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 13.9 | 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° | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 637.0 | 638.8 | 636.1 | 637.9 | 637.9 | 635.2 | 634.3 | 630.8 | 632.6 | 631.7 | 630.8 |
| 5° | 652.0 | 652.9 | 651.1 | 653.8 | 653.8 | 654.7 | 653.8 | 649.4 | 649.4 | 649.4 | 647.6 |
| 7.5° | 647.6 | 647.6 | 648.5 | 657.3 | 666.2 | 677.7 | 677.7 | 675.9 | 677.7 | 676.8 | 668.8 |
| 10° | 610.4 | 614.0 | 622.0 | 644.1 | 665.3 | 690.1 | 706.9 | 712.2 | 712.2 | 713.1 | 699.8 |
| 12.5° | 544.1 | 546.8 | 565.3 | 598.9 | 643.2 | 688.3 | 729.0 | 755.5 | 758.2 | 762.6 | 744.9 |
| 15° | 484.8 | 486.6 | 499.9 | 534.4 | 584.8 | 664.4 | 741.4 | 796.2 | 805.1 | 823.7 | 797.1 |
| 17.5° | 490.1 | 489.2 | 492.8 | 506.1 | 542.3 | 625.5 | 738.7 | 844.0 | 859.9 | 892.7 | 869.7 |
| 20° | 522.0 | 522.0 | 524.6 | 527.3 | 540.6 | 597.2 | 719.3 | 882.9 | 913.9 | 977.6 | 951.1 |
| 22.5° | 572.4 | 572.4 | 571.5 | 575.9 | 575.9 | 609.6 | 720.2 | 912.1 | 958.1 | 1072.3 | 1046.6 |
| 25° | 642.3 | 638.8 | 638.8 | 640.5 | 632.6 | 656.5 | 742.3 | 942.2 | 1002.4 | 1184.6 | 1162.5 |
| 27.5° | 721.0 | 723.7 | 721.9 | 715.7 | 705.1 | 723.7 | 795.4 | 989.1 | 1051.9 | 1303.2 | 1294.3 |
| 30° | 806.9 | 807.7 | 809.5 | 806.0 | 797.1 | 810.4 | 878.5 | 1059.9 | 1117.4 | 1427.0 | 1446.5 |
| 32.5° | 890.9 | 903.3 | 898.9 | 890.0 | 893.6 | 917.4 | 981.1 | 1155.4 | 1214.7 | 1542.0 | 1611.1 |
| 35° | 998.0 | 1002.4 | 1020.1 | 987.3 | 988.2 | 1028.9 | 1112.1 | 1281.1 | 1338.6 | 1661.5 | 1775.6 |
| 37.5° | 1153.7 | 1161.6 | 1153.7 | 1102.3 | 1094.4 | 1151.0 | 1239.5 | 1404.9 | 1446.5 | 1751.7 | 1928.7 |
| 40° | 1306.7 | 1316.4 | 1329.7 | 1269.6 | 1219.1 | 1266.0 | 1359.8 | 1499.6 | 1542.9 | 1801.3 | 2030.4 |
| 42.5° | 1433.2 | 1449.2 | 1435.0 | 1417.3 | 1371.3 | 1380.1 | 1443.8 | 1573.0 | 1616.4 | 1864.1 | 2133.0 |
| 45° | 1540.3 | 1542.9 | 1549.1 | 1536.7 | 1513.7 | 1505.8 | 1515.5 | 1637.6 | 1685.4 | 1892.4 | 2183.5 |
| 47.5° | 1584.5 | 1596.0 | 1601.3 | 1622.6 | 1646.4 | 1630.5 | 1576.6 | 1667.7 | 1711.0 | 1890.6 | 2199.4 |
| 50° | 1560.6 | 1572.1 | 1600.4 | 1650.9 | 1708.4 | 1736.7 | 1648.2 | 1709.3 | 1757.9 | 1922.5 | 2232.1 |
| 52.5° | 1497.8 | 1510.2 | 1556.2 | 1613.7 | 1710.1 | 1774.7 | 1749.1 | 1796.0 | 1842.9 | 1979.1 | 2287.0 |
| 55° | 1345.6 | 1364.2 | 1428.8 | 1524.4 | 1657.1 | 1754.4 | 1855.2 | 1923.4 | 1974.7 | 2047.2 | 2343.6 |
| 57.5° | 1124.5 | 1143.9 | 1216.5 | 1359.8 | 1558.9 | 1670.3 | 1886.2 | 2162.2 | 2185.2 | 2128.6 | 2348.9 |
| 60° | *842.2* | *858.2* | *960.8* | *1075.8* | *1309.4* | *1516.4* | *1868.5* | *2388.7* | *2447.1* | *2114.5* | *2179.9* |
| 62.5° | 667.1 | 686.5 | 777.7 | 830.7 | 998.0 | 1252.7 | 1806.6 | 2451.5 | 2502.0 | 1997.7 | 1944.6 |
| 65° | 521.1 | 534.4 | 619.3 | 695.4 | 736.1 | 855.5 | 1548.2 | 2144.5 | 2189.7 | 1807.5 | 1604.9 |
| 67.5° | 344.2 | 364.5 | 465.4 | 569.8 | 591.0 | 544.1 | 1065.2 | 1650.0 | 1671.2 | 1436.8 | 1206.7 |
| 70° | 246.8 | 256.6 | 331.8 | 443.2 | 475.1 | 364.5 | 580.4 | 1249.2 | 1255.4 | 964.3 | 813.0 |
| 72.5° | 168.1 | 169.9 | 225.6 | 339.7 | 378.7 | 264.5 | 319.4 | 822.8 | 801.5 | 476.0 | 465.4 |
| 75° | 114.1 | 115.9 | 144.2 | 226.5 | 268.1 | 184.0 | 207.9 | 448.5 | 430.9 | 262.8 | 282.2 |
| 77.5° | 77.0 | 78.7 | 99.1 | 152.2 | 178.7 | 127.4 | 152.2 | 237.1 | 232.7 | 174.3 | 151.3 |
| 80° | 58.4 | 61.0 | 73.4 | 97.3 | 124.7 | 74.3 | 86.7 | 112.4 | 114.1 | 92.9 | 77.0 |
| 82.5° | 32.7 | 36.3 | 44.2 | 49.5 | 80.5 | 41.6 | 41.6 | 67.2 | 64.6 | 57.5 | 41.6 |
| 85° | 14.2 | 15.0 | 17.7 | 18.6 | 32.7 | 17.7 | 15.0 | 29.2 | 30.1 | 28.3 | 13.3 |
| 87.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 3.5 | 3.5 | 3.5 | 3.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 626.4 | 631.7 | 626.4 | 623.7 | 623.7 | 619.3 | 617.5 | 617.5 | 611.3 | 614.0 | 612.2 |
| 5° | 640.5 | 642.3 | 636.1 | 628.1 | 617.5 | 608.7 | 596.3 | 580.4 | 570.6 | 569.8 | 570.6 |
| 7.5° | 662.6 | 663.5 | 646.7 | 629.0 | 602.5 | 570.6 | 532.6 | 501.6 | 474.2 | 469.8 | 475.1 |
| 10° | 693.6 | 691.8 | 667.1 | 625.5 | 569.8 | 502.5 | 444.1 | 415.8 | 399.9 | 399.0 | 398.1 |
| 12.5° | 735.2 | 723.7 | 685.6 | 610.4 | 513.1 | 435.3 | 405.2 | 403.4 | 407.9 | 411.4 | 412.3 |
| 15° | 783.0 | 767.9 | 700.7 | 581.3 | 455.6 | 410.5 | 412.3 | 427.3 | 432.6 | 436.2 | 436.2 |
| 17.5° | 842.2 | 822.8 | 717.5 | 539.7 | 426.4 | 415.8 | 428.2 | 442.4 | 451.2 | 454.7 | 453.9 |
| 20° | 921.0 | 880.3 | 730.8 | 499.9 | 418.5 | 424.7 | 435.3 | 449.4 | 458.3 | 462.7 | 462.7 |
| 22.5° | 999.7 | 949.3 | 733.4 | 472.4 | 418.5 | 425.5 | 435.3 | 449.4 | 459.2 | 463.6 | 462.7 |
| 25° | 1106.8 | 1037.8 | 734.3 | 453.0 | 419.4 | 421.1 | 430.0 | 442.4 | 456.5 | 460.9 | 462.7 |
| 27.5° | 1220.9 | 1135.1 | 738.7 | 448.5 | 415.8 | 414.9 | 421.1 | 432.6 | 446.8 | 458.3 | 459.2 |
| 30° | 1362.5 | 1244.8 | 740.5 | 453.0 | 416.7 | 405.2 | 409.6 | 421.1 | 436.2 | 447.7 | 451.2 |
| 32.5° | 1501.4 | 1346.5 | 737.0 | 462.7 | 418.5 | 399.0 | 399.9 | 407.0 | 422.9 | 430.9 | 437.0 |
| 35° | 1648.2 | 1454.5 | 730.8 | 476.0 | 419.4 | 396.3 | 388.4 | 391.9 | 402.5 | 403.4 | 406.1 |
| 37.5° | 1763.2 | 1535.0 | 712.2 | 493.7 | 421.1 | 386.6 | 370.7 | 368.0 | 363.6 | 354.8 | 356.5 |
| 40° | 1857.9 | 1588.9 | 681.2 | 502.5 | 416.7 | 375.1 | 348.6 | 336.2 | 319.4 | 306.1 | 308.8 |
| 42.5° | 1926.0 | 1625.2 | 644.1 | 504.3 | 409.6 | 355.7 | 322.9 | 301.7 | 283.1 | 269.0 | 269.8 |
| 45° | 1956.1 | 1621.7 | 604.3 | 491.0 | 392.8 | 331.8 | 299.0 | 278.7 | 258.3 | 243.3 | 241.5 |
| 47.5° | 1957.0 | 1587.2 | 549.4 | 459.2 | 364.5 | 304.3 | 276.9 | 254.8 | 238.0 | 227.4 | 226.5 |
| 50° | 1964.1 | 1567.7 | 498.1 | 413.2 | 327.3 | 275.1 | 257.5 | 235.3 | 225.6 | 210.6 | 206.1 |
| 52.5° | 2008.3 | 1599.6 | 462.7 | 362.7 | 292.8 | 253.9 | 240.6 | 221.2 | 205.3 | 195.5 | 194.6 |
| 55° | 2080.0 | 1654.4 | 443.2 | 324.7 | 260.1 | 233.6 | 224.7 | 207.9 | 193.8 | 184.0 | 181.4 |
| 57.5° | 2088.8 | 1682.7 | 420.2 | 289.3 | 233.6 | 217.6 | 214.1 | 195.5 | 175.2 | 168.1 | 165.4 |
| 60° | *1964.9* | *1634.9* | *391.9* | *256.6* | *214.1* | *205.3* | *203.5* | *178.7* | *161.9* | *153.1* | *149.5* |
| 62.5° | 1796.0 | 1515.5 | 348.6 | 226.5 | 199.1 | 192.9 | 185.8 | 166.3 | 145.1 | 135.4 | 132.7 |
| 65° | 1467.7 | 1274.0 | 296.4 | 206.1 | 184.0 | 176.9 | 175.2 | 148.6 | 134.5 | 129.2 | 128.3 |
| 67.5° | 1112.1 | 1023.6 | 261.0 | 191.1 | 168.1 | 165.4 | 159.2 | 150.4 | 144.2 | 138.0 | 136.2 |
| 70° | 786.5 | 738.7 | 222.1 | 171.6 | 152.2 | 147.7 | 173.4 | 163.7 | 141.6 | 133.6 | 132.7 |
| 72.5° | 476.9 | 463.6 | 192.0 | 153.9 | 130.9 | 138.0 | 160.1 | 147.7 | 127.4 | 117.7 | 114.1 |
| 75° | 300.8 | 275.1 | 161.0 | 130.9 | 104.4 | 112.4 | 139.8 | 131.8 | 109.7 | 100.0 | 97.3 |
| 77.5° | 163.7 | 152.2 | 121.2 | 107.0 | 82.3 | 91.1 | 122.1 | 108.8 | 87.6 | 95.5 | 84.9 |
| 80° | 71.7 | 79.6 | 80.5 | 61.9 | 54.9 | 67.2 | 87.6 | 84.9 | 67.2 | 68.1 | 56.6 |
| 82.5° | 34.5 | 45.1 | 52.2 | 42.5 | 31.0 | 39.8 | 58.4 | 48.7 | 45.1 | 42.5 | 40.7 |
| 85° | 10.6 | 16.8 | 23.0 | 20.3 | 14.2 | 16.8 | 27.4 | 26.5 | 31.8 | 27.4 | 25.7 |
| 87.5° | 3.5 | 3.5 | 2.7 | 2.7 | 2.7 | 3.5 | 4.4 | 2.7 | 0.9 | 0.9 | 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° | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 611.3 | 612.2 | 612.2 | 613.1 | 613.1 | 615.8 | 619.3 | 622.8 | 620.2 | 623.7 | 624.6 |
| 5° | 568.9 | 573.3 | 576.8 | 590.1 | 600.7 | 609.6 | 619.3 | 628.1 | 630.8 | 632.6 | 637.0 |
| 7.5° | 468.9 | 481.3 | 504.3 | 534.4 | 568.0 | 600.7 | 622.8 | 645.8 | 649.4 | 653.8 | 660.0 |
| 10° | 399.0 | 404.3 | 420.2 | 451.2 | 511.4 | 575.9 | 629.9 | 666.2 | 681.2 | 690.1 | 696.3 |
| 12.5° | 410.5 | 407.0 | 404.3 | 408.7 | 447.7 | 530.8 | 625.5 | 695.4 | 723.7 | 733.4 | 741.4 |
| 15° | 437.9 | 434.4 | 424.7 | 412.3 | 416.7 | 483.1 | 610.4 | 722.8 | 767.9 | 783.9 | 800.7 |
| 17.5° | 453.9 | 450.3 | 442.4 | 429.1 | 417.6 | 443.2 | 582.1 | 747.6 | 837.8 | 857.3 | 881.2 |
| 20° | 462.7 | 459.2 | 451.2 | 437.9 | 424.7 | 428.2 | 545.9 | 778.5 | 917.4 | 948.4 | 983.8 |
| 22.5° | 464.5 | 460.0 | 451.2 | 437.9 | 430.0 | 427.3 | 511.4 | 797.1 | 1003.3 | 1051.0 | 1091.7 |
| 25° | 463.6 | 455.6 | 444.1 | 434.4 | 430.0 | 429.1 | 487.5 | 807.7 | 1096.2 | 1172.2 | 1218.2 |
| 27.5° | 457.4 | 447.7 | 436.2 | 429.1 | 427.3 | 432.6 | 476.9 | 820.1 | 1205.0 | 1302.3 | 1375.7 |
| 30° | 450.3 | 436.2 | 422.0 | 419.4 | 423.8 | 440.6 | 485.7 | 824.5 | 1319.1 | 1443.8 | 1519.0 |
| 32.5° | 431.7 | 421.1 | 407.0 | 406.1 | 416.7 | 446.8 | 506.1 | 818.4 | 1420.0 | 1585.4 | 1680.1 |
| 35° | 405.2 | 399.0 | 391.0 | 393.7 | 410.5 | 452.1 | 520.2 | 798.9 | 1512.0 | 1717.2 | 1827.8 |
| 37.5° | 358.3 | 362.7 | 367.2 | 373.3 | 394.6 | 451.2 | 526.4 | 767.9 | 1588.1 | 1822.5 | 1964.1 |
| 40° | 306.1 | 321.1 | 335.3 | 351.2 | 379.5 | 444.1 | 528.2 | 729.9 | 1632.3 | 1902.1 | 2085.3 |
| 42.5° | 273.4 | 287.5 | 305.2 | 328.2 | 359.2 | 428.2 | 526.4 | 687.4 | 1646.4 | 1957.0 | 2162.2 |
| 45° | 243.3 | 260.1 | 282.2 | 306.1 | 341.5 | 405.2 | 510.5 | 641.4 | 1653.5 | 1982.6 | 2195.0 |
| 47.5° | 227.4 | 237.1 | 257.5 | 281.3 | 318.5 | 376.9 | 479.5 | 607.8 | 1642.9 | 1987.9 | 2234.8 |
| 50° | 208.8 | 222.1 | 235.3 | 258.3 | 294.6 | 341.5 | 442.4 | 588.3 | 1660.6 | 2040.1 | 2297.6 |
| 52.5° | 194.6 | 201.7 | 215.9 | 237.1 | 263.6 | 308.8 | 407.0 | 572.4 | 1709.3 | 2093.2 | 2363.1 |
| 55° | 184.0 | 192.0 | 200.8 | 218.5 | 238.9 | 276.0 | 370.7 | 548.5 | 1765.9 | 2149.8 | 2428.5 |
| 57.5° | 167.2 | 172.5 | 184.9 | 203.5 | 216.8 | 244.2 | 328.2 | 520.2 | 1761.5 | 2105.6 | 2315.3 |
| 60° | *152.2* | *157.5* | *170.7* | *189.3* | *197.3* | *215.9* | *286.6* | *483.9* | *1676.5* | *1961.4* | *2106.5* |
| 62.5° | 135.4 | 141.6 | 157.5 | 170.7 | 177.8 | 192.0 | 243.3 | 417.6 | 1499.6 | 1744.6 | 1862.3 |
| 65° | 128.3 | 131.8 | 142.4 | 158.4 | 157.5 | 170.7 | 205.3 | 328.2 | 1206.7 | 1333.3 | 1440.3 |
| 67.5° | 136.2 | 141.6 | 139.8 | 144.2 | 141.6 | 148.6 | 184.0 | 263.6 | 948.4 | 1004.1 | 1066.1 |
| 70° | 134.5 | 146.9 | 153.1 | 144.2 | 123.9 | 131.8 | 159.2 | 210.6 | 678.6 | 673.3 | 670.6 |
| 72.5° | 117.7 | 130.1 | 147.7 | 156.6 | 121.2 | 109.7 | 138.0 | 182.3 | 435.3 | 433.5 | 391.9 |
| 75° | 100.0 | 108.8 | 130.1 | 141.6 | 104.4 | 88.5 | 118.6 | 154.8 | 260.1 | 263.6 | 235.3 |
| 77.5° | 92.0 | 87.6 | 108.8 | 124.7 | 84.9 | 68.1 | 95.5 | 116.8 | 143.3 | 145.1 | 134.5 |
| 80° | 66.4 | 63.7 | 81.4 | 91.1 | 64.6 | 48.7 | 54.0 | 72.5 | 77.0 | 69.0 | 71.7 |
| 82.5° | 42.5 | 43.4 | 48.7 | 58.4 | 39.8 | 26.5 | 37.2 | 48.7 | 41.6 | 33.6 | 39.8 |
| 85° | 27.4 | 31.0 | 25.7 | 30.1 | 12.4 | 12.4 | 15.9 | 21.2 | 14.2 | 9.7 | 10.6 |
| 87.5° | 0.0 | 0.0 | 1.8 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1501565
CATALOG NUMBER: GSS-SB1A-840-U-T2LG

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 624.6 | 624.6 | *624.6* | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 | 624.6 |
| 2.5° | 627.3 | 626.4 | *626.4* | 628.1 | 632.6 | 634.3 | 637.0 | 636.1 | 638.8 | 637.0 |
| 5° | 639.6 | 640.5 | *643.2* | 644.1 | 646.7 | 650.3 | 651.1 | 650.3 | 652.0 | 652.0 |
| 7.5° | 664.4 | 668.0 | *666.2* | 670.6 | 667.1 | 662.6 | 655.6 | 650.3 | 645.8 | 647.6 |
| 10° | 706.0 | 704.2 | *703.3* | 695.4 | 679.5 | 656.5 | 637.9 | 617.5 | 614.0 | 610.4 |
| 12.5° | 752.0 | 750.2 | *750.2* | 722.8 | 677.7 | 629.9 | 587.4 | 555.6 | 545.0 | 544.1 |
| 15° | 816.6 | 805.1 | *794.5* | 737.0 | 646.7 | 565.3 | 515.8 | 491.0 | 484.8 | 484.8 |
| 17.5° | 897.1 | 867.0 | *849.3* | 726.3 | 596.3 | 522.9 | 493.7 | 487.5 | 485.7 | 490.1 |
| 20° | 997.1 | 921.0 | *895.3* | 702.5 | 577.7 | 528.2 | 514.0 | 514.9 | 515.8 | 522.0 |
| 22.5° | 1106.8 | 970.5 | *928.1* | 702.5 | 596.3 | 561.8 | 554.7 | 564.4 | 567.1 | 572.4 |
| 25° | 1228.9 | 1014.8 | *957.3* | 739.6 | 651.1 | 625.5 | 616.6 | 626.4 | 633.5 | 642.3 |
| 27.5° | 1366.0 | 1060.8 | *1007.7* | 806.9 | 721.9 | 706.0 | 696.3 | 700.7 | 710.4 | 721.0 |
| 30° | 1489.0 | 1137.7 | *1084.7* | 909.5 | 818.4 | 798.9 | 782.1 | 789.2 | 799.8 | 806.9 |
| 32.5° | 1597.8 | 1231.5 | *1186.4* | 1017.4 | 928.9 | 895.3 | 876.7 | 875.0 | 896.2 | 890.9 |
| 35° | 1697.8 | 1342.1 | *1298.8* | 1140.4 | 1041.3 | 999.7 | 975.0 | 1006.8 | 992.6 | 998.0 |
| 37.5° | 1776.5 | 1457.1 | *1422.6* | 1258.1 | 1158.1 | 1101.5 | 1086.4 | 1125.4 | 1147.5 | 1153.7 |
| 40° | 1841.1 | 1557.1 | *1520.8* | 1374.8 | 1265.1 | 1223.6 | 1247.4 | 1312.0 | 1309.4 | 1306.7 |
| 42.5° | 1890.6 | 1642.9 | *1603.1* | 1463.3 | 1367.8 | 1375.7 | 1394.3 | 1437.7 | 1448.3 | 1433.2 |
| 45° | 1912.7 | 1696.9 | *1665.0* | 1533.2 | 1484.5 | 1530.5 | 1538.5 | 1557.1 | 1550.0 | 1540.3 |
| 47.5° | 1938.4 | 1744.6 | *1711.0* | 1596.9 | 1611.1 | 1656.2 | 1640.3 | 1625.2 | 1599.6 | 1584.5 |
| 50° | 1981.7 | 1801.3 | *1773.0* | 1689.8 | 1741.1 | 1726.1 | 1664.1 | 1630.5 | 1578.3 | 1560.6 |
| 52.5° | 2064.0 | 1908.3 | *1887.1* | 1836.7 | 1802.2 | 1715.5 | 1640.3 | 1580.1 | 1521.7 | 1497.8 |
| 55° | 2137.5 | 2053.4 | *2041.0* | 1973.8 | 1783.6 | 1659.7 | 1558.9 | 1466.0 | 1366.0 | 1345.6 |
| 57.5° | 2179.9 | 2294.1 | *2308.2* | 2032.2 | 1698.6 | 1533.2 | 1384.6 | 1235.9 | 1141.3 | 1124.5 |
| 60° | *2053.4* | *2554.2* | *2561.2* | *2020.7* | *1545.6* | *1304.9* | *1078.5* | *973.2* | *871.4* | *842.2* |
| 62.5° | 1879.1 | 2500.2 | *2494.0* | 1951.7 | 1230.6 | 951.9 | 819.2 | 769.7 | 691.0 | 667.1 |
| 65° | 1615.5 | 2082.6 | *2089.7* | 1686.3 | 818.4 | 688.3 | 688.3 | 625.5 | 537.9 | 521.1 |
| 67.5° | 1316.4 | 1605.7 | *1589.8* | 1093.5 | 502.5 | 551.2 | 577.7 | 487.5 | 364.5 | 344.2 |
| 70° | 855.5 | 1226.2 | *1204.1* | 630.8 | 315.8 | 459.2 | 454.7 | 366.3 | 261.0 | 246.8 |
| 72.5° | 368.0 | 708.7 | *753.8* | 322.0 | 238.0 | 369.8 | 362.7 | 256.6 | 174.3 | 168.1 |
| 75° | 222.1 | 356.5 | *388.4* | 205.3 | 173.4 | 278.7 | 251.3 | 162.8 | 118.6 | 114.1 |
| 77.5° | 140.7 | 195.5 | *193.8* | 153.9 | 130.1 | 188.4 | 169.0 | 112.4 | 80.5 | 77.0 |
| 80° | 81.4 | 96.4 | *100.0* | 96.4 | 87.6 | 134.5 | 107.9 | 81.4 | 62.8 | 58.4 |
| 82.5° | 52.2 | 60.2 | *61.0* | 46.9 | 48.7 | 86.7 | 58.4 | 47.8 | 36.3 | 32.7 |
| 85° | 23.0 | 25.7 | *24.8* | 15.9 | 15.9 | 35.4 | 20.3 | 19.5 | 14.2 | 14.2 |
| 87.5° | 0.9 | 1.8 | *0.9* | 0.9 | 0.9 | 3.5 | 1.8 | 2.7 | 2.7 | 2.7 |
| 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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

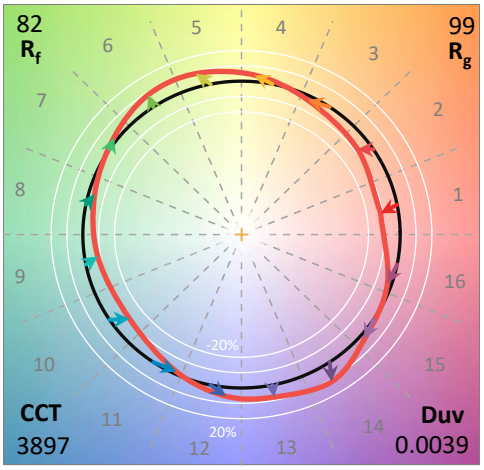
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-11 |
| 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-840-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3897 |
| CIE u': | 0.2249 |
| CIE v': | 0.5084 |
| Duv: | 0.0039 |
| CIE x: | 0.3882 |
| CIE y: | 0.3900 |
| CIE z: | 0.2218 |
| Peak Wavelength (nm): | 445 |
| Dominant Wavelength (nm): | 577 |
| Purity: | 33.54925 |
| Rf: | 81.8 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 80.2 |
| R1: | 78.9 |
| R2: | 83.5 |
| R3: | 88.3 |
| R4: | 82.1 |
| R5: | 78.8 |
| R6: | 78.4 |
| R7: | 85.8 |
| R8: | 65.8 |
| R9: | 6.7 |
| R10: | 61.9 |
| R11: | 81.9 |
| R12: | 58.9 |
| R13: | 79.2 |
| R14: | 93.2 |
| R15: | 71.9 |




## Test Conditions

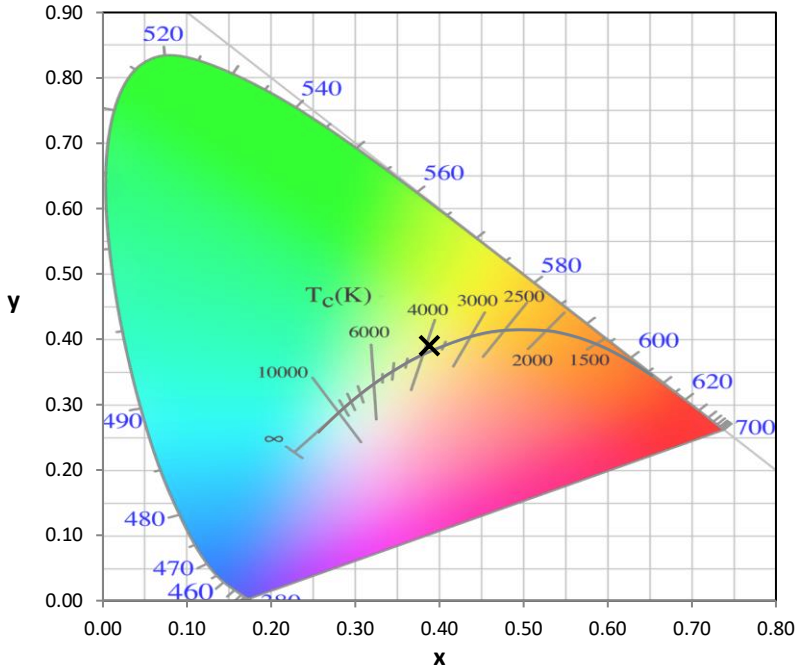
| | |
|---|---|
| Stabilization Time: | 24M |
| Operation Time: | 1H 24M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-11

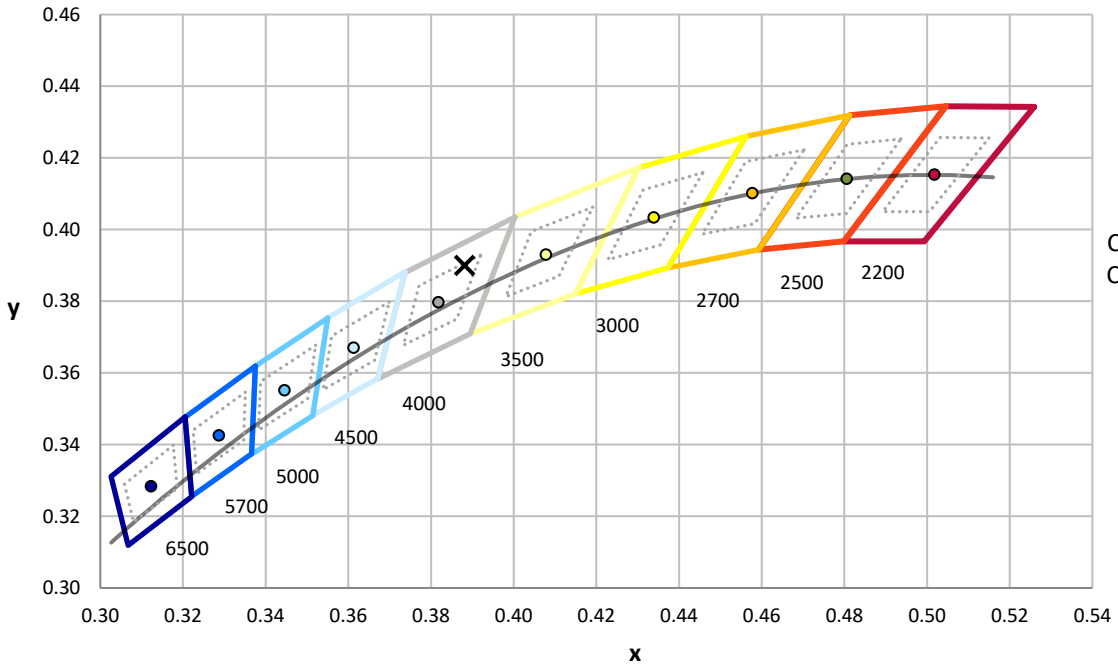
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-11

## CIE 1931 Chromaticity Diagram




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

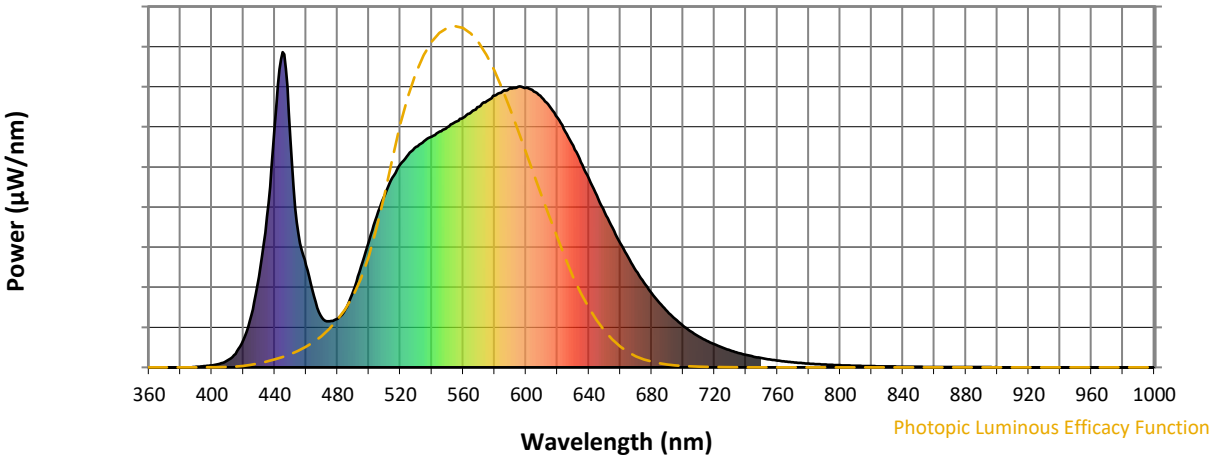



CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

## Photopic Flux vs. Wavelength

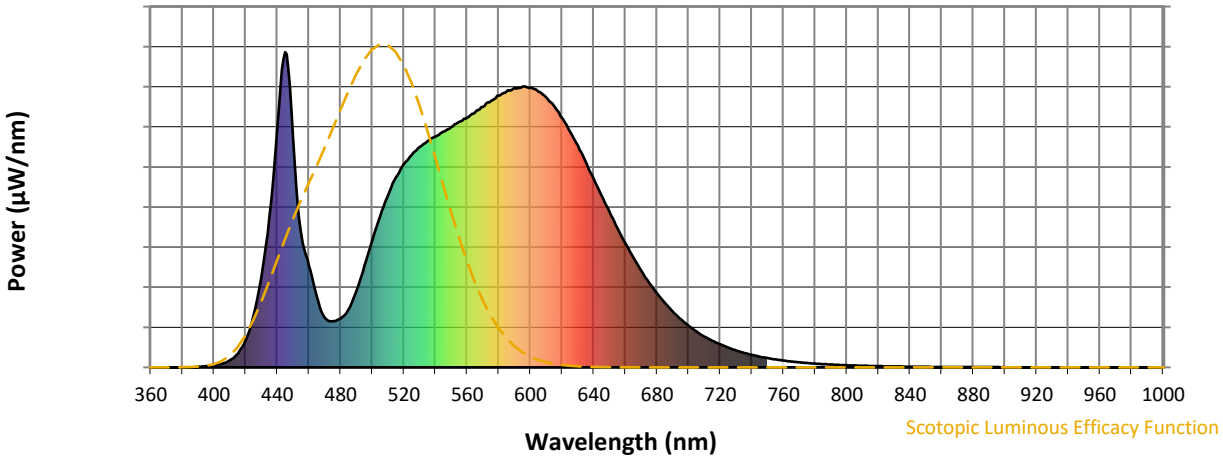



## Photopic Lumens: NR

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-11

## Scotopic Flux vs. Wavelength

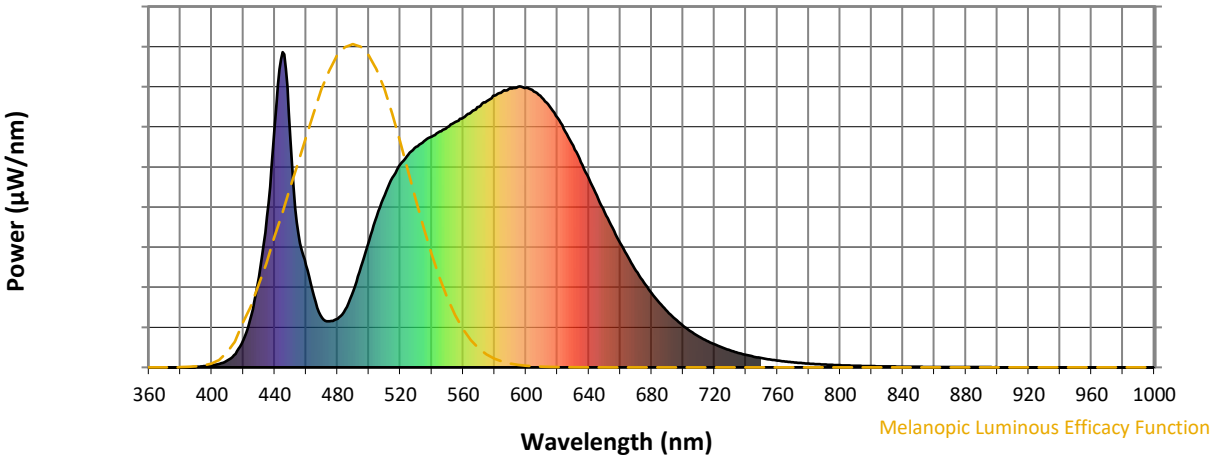



**Scotopic Lumens: NR** **S/P: 1.57**

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-11

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.06**

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

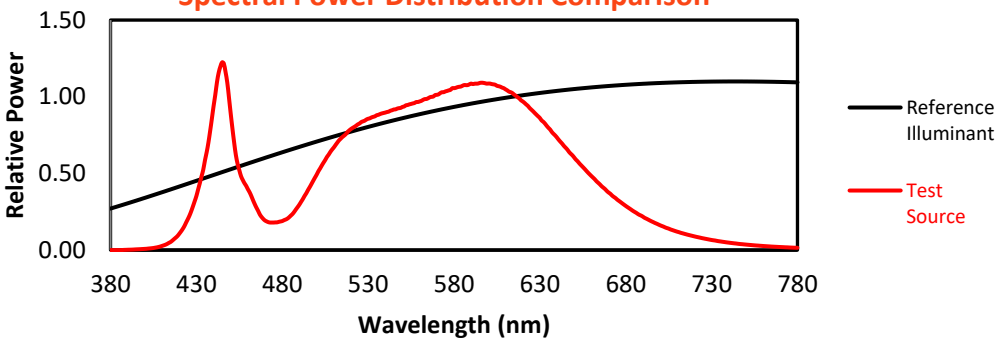
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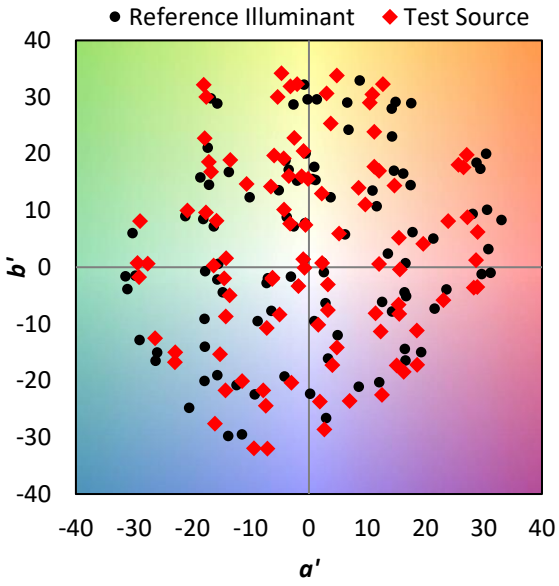
## Summary

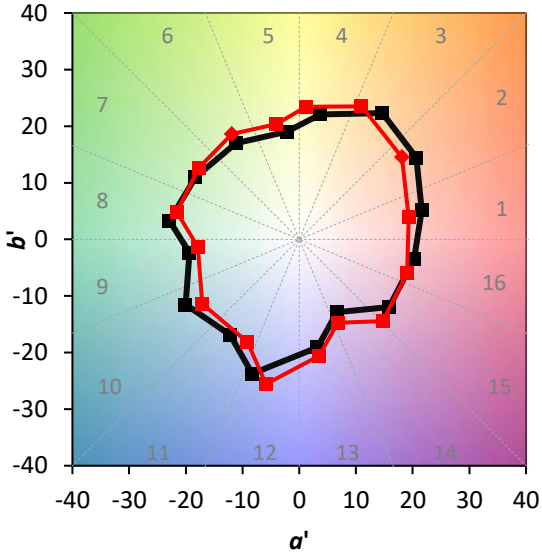
$R_f$ = 81.8
$R_g$ = 98.6
CIE $R_a$ = 80.2
$R_9$ = 6.7

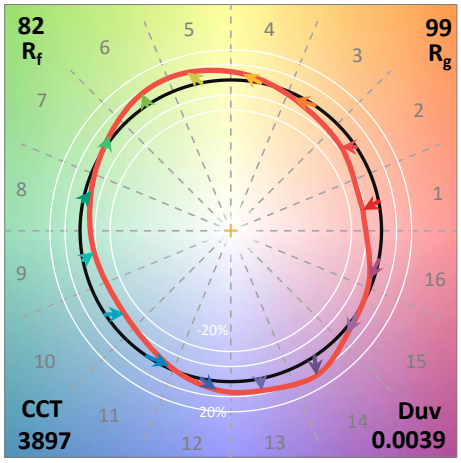
## Spectral Power Distribution Comparison

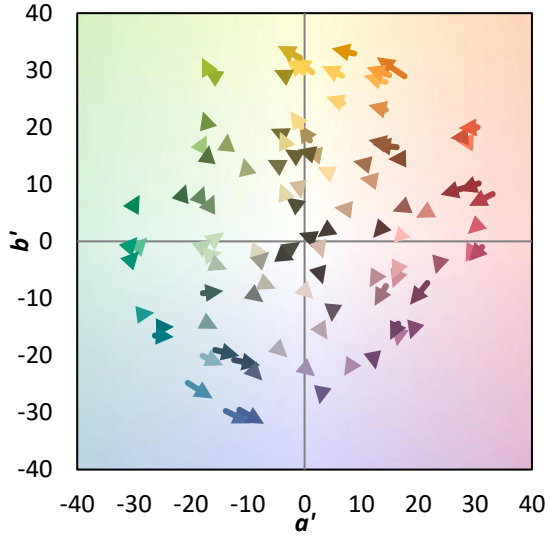



## Color Vector Graphics



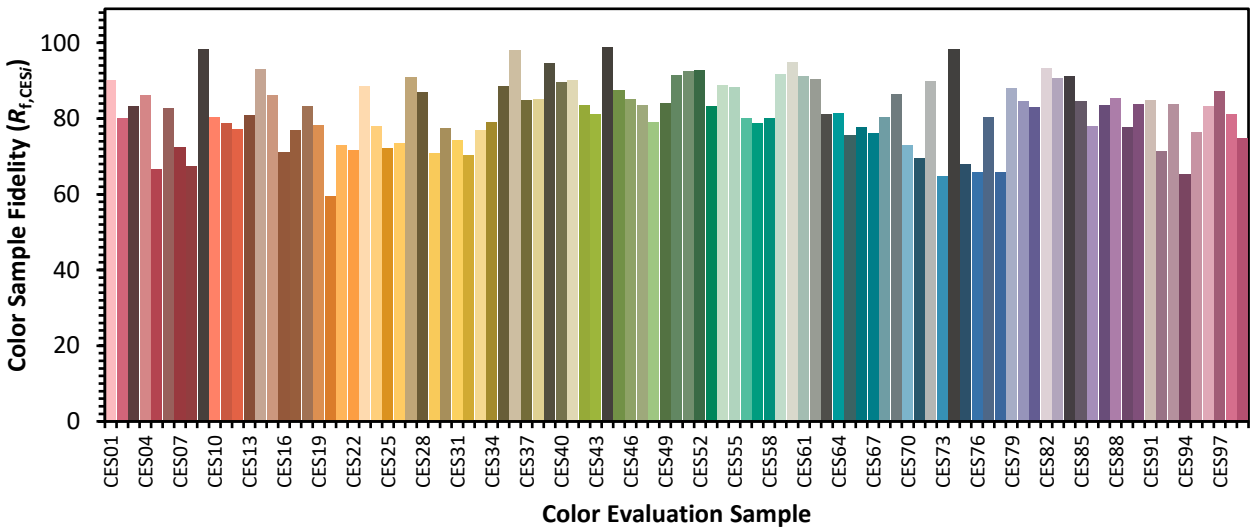



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**Individual Sample Fidelity Index ($R_{f,i}$)**

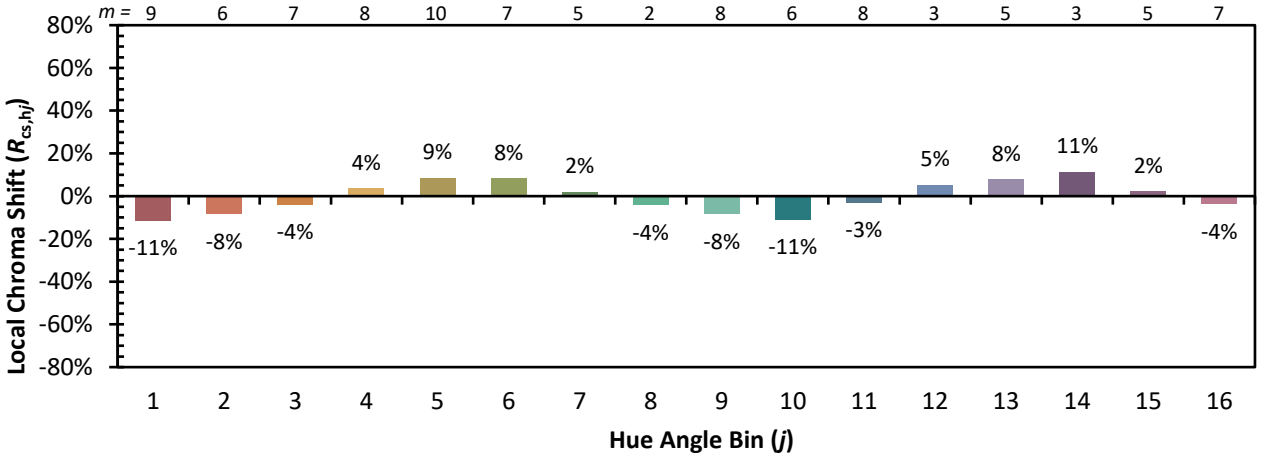
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 73 | CES51 = 93 | CES76 = 66 |
| CES02 = 61 | CES27 = 91 | CES52 = 93 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 83 | CES78 = 66 |
| CES04 = 69 | CES29 = 71 | CES54 = 89 | CES79 = 88 |
| CES05 = 48 | CES30 = 77 | CES55 = 88 | CES80 = 85 |
| CES06 = 50 | CES31 = 74 | CES56 = 80 | CES81 = 83 |
| CES07 = 41 | CES32 = 70 | CES57 = 79 | CES82 = 93 |
| CES08 = 40 | CES33 = 77 | CES58 = 80 | CES83 = 91 |
| CES09 = 29 | CES34 = 79 | CES59 = 92 | CES84 = 91 |
| CES10 = 74 | CES35 = 88 | CES60 = 95 | CES85 = 84 |
| CES11 = 57 | CES36 = 98 | CES61 = 91 | CES86 = 78 |
| CES12 = 63 | CES37 = 85 | CES62 = 90 | CES87 = 84 |
| CES13 = 42 | CES38 = 85 | CES63 = 81 | CES88 = 85 |
| CES14 = 74 | CES39 = 95 | CES64 = 81 | CES89 = 78 |
| CES15 = 71 | CES40 = 90 | CES65 = 76 | CES90 = 84 |
| CES16 = 47 | CES41 = 90 | CES66 = 78 | CES91 = 85 |
| CES17 = 49 | CES42 = 84 | CES67 = 76 | CES92 = 71 |
| CES18 = 56 | CES43 = 81 | CES68 = 80 | CES93 = 84 |
| CES19 = 71 | CES44 = 99 | CES69 = 86 | CES94 = 65 |
| CES20 = 65 | CES45 = 87 | CES70 = 73 | CES95 = 77 |
| CES21 = 86 | CES46 = 85 | CES71 = 70 | CES96 = 83 |
| CES22 = 78 | CES47 = 84 | CES72 = 90 | CES97 = 87 |
| CES23 = 91 | CES48 = 79 | CES73 = 65 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 75 |
| CES25 = 71 | CES50 = 91 | CES75 = 68 | |

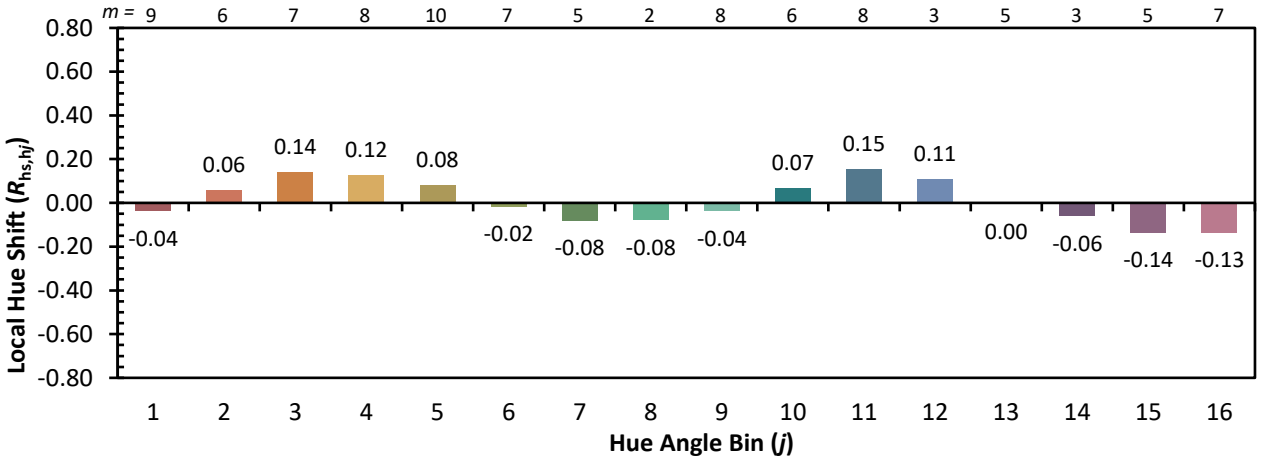


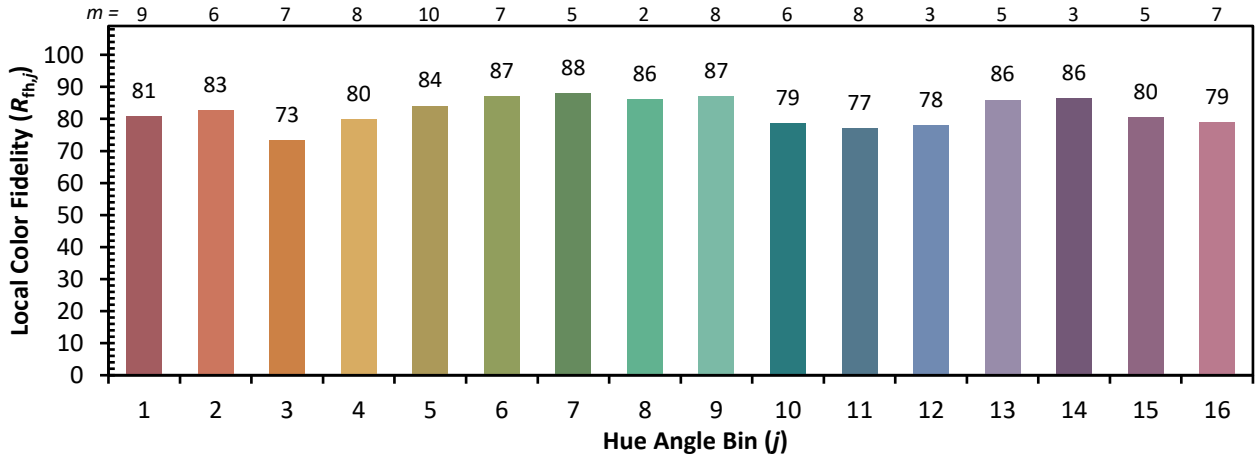
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## Color Rendition by Hue-Angle Bin



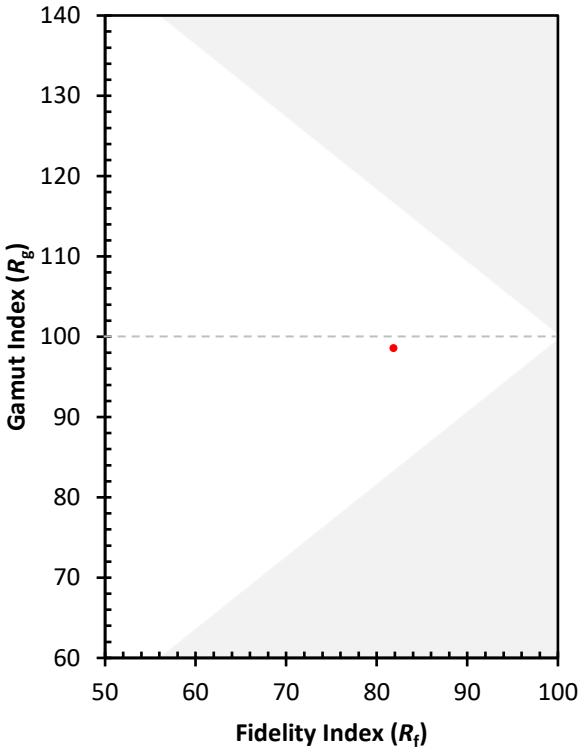



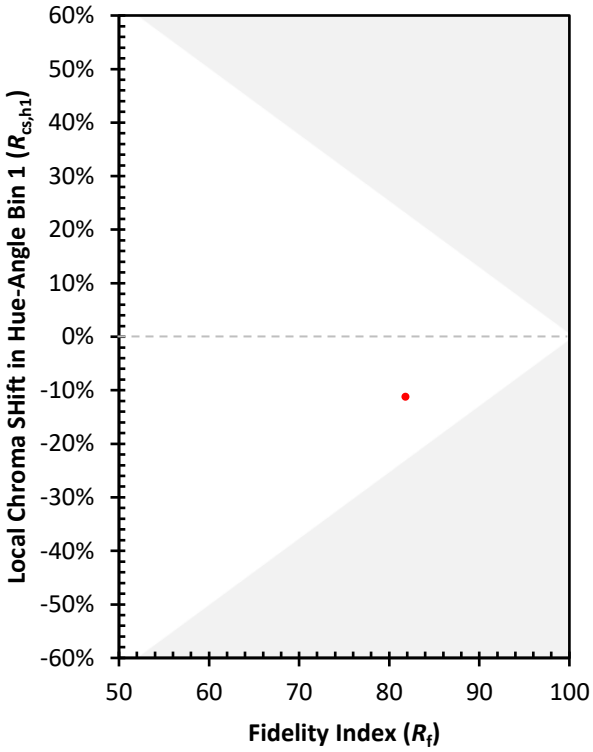



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## Measure Comparisons




(END OF REPORT)