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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1364391

Luminaire Tested: **GSS-SB3A-850-U-SLR**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1364391 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB3A-850-U-SLR |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 80CRI 5000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC |
| Light Source: | (78) 5000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

Luminaire Equipment:

| Sample No. | Condition | Description |
|---|---|---|
| a | good | reflector |
| b | good | lens |
| c | good | housing |
| d | good | cord |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11369.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 133.8 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G2 |

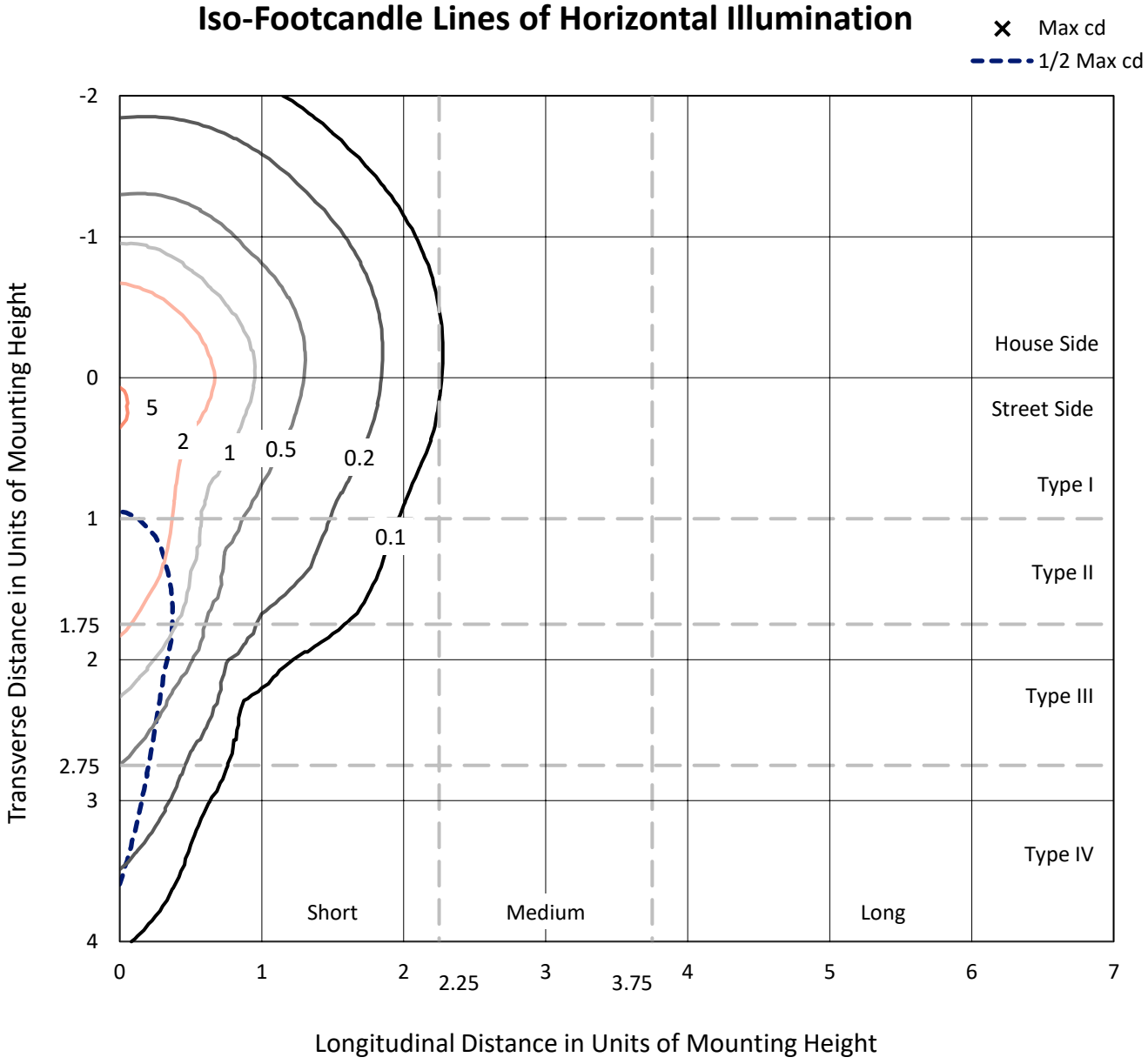
| | |
|---|---|
| Input Watts (W): | 85 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 11.0% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



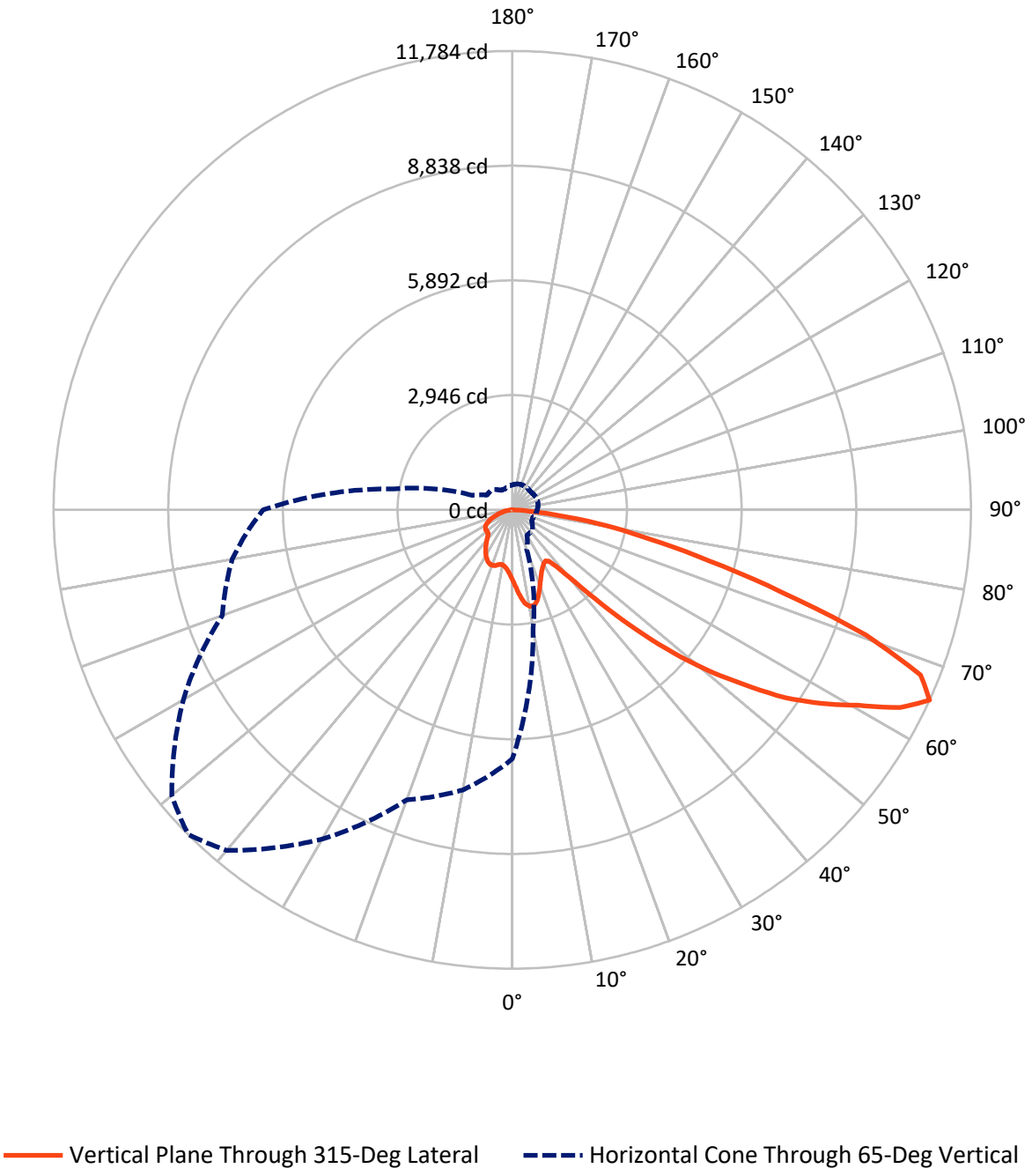

Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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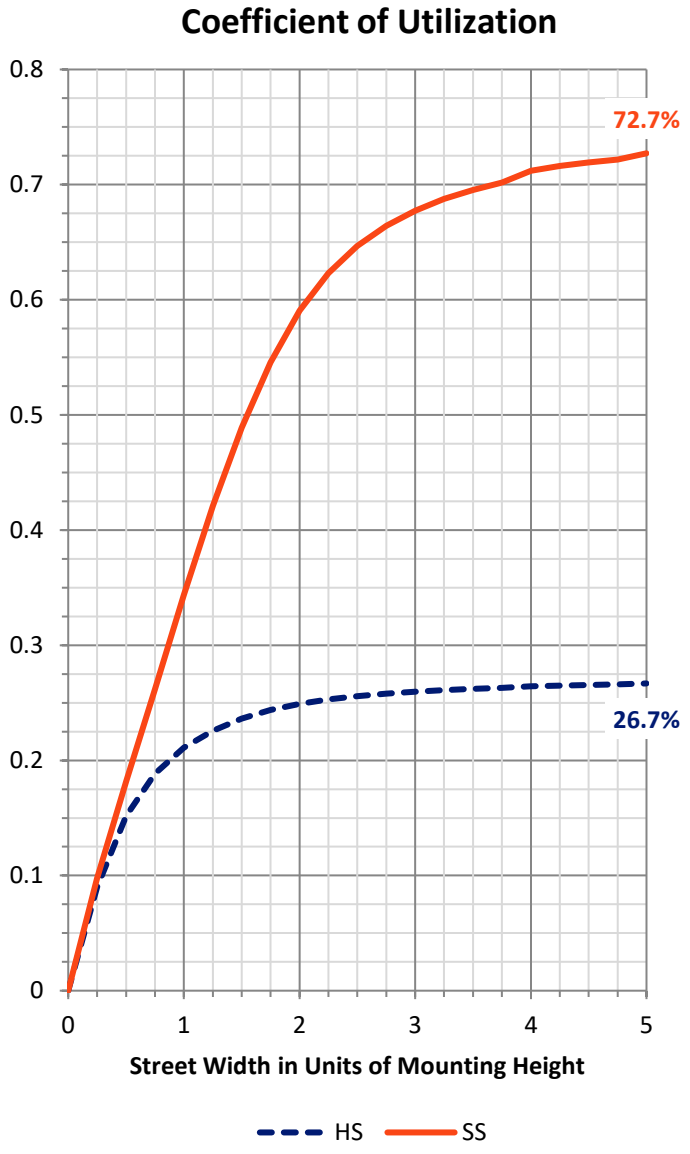
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3058.7 | 0.0 | 3058.7 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 8310.9 | 0.0 | 8310.9 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 11369.5 | 0.0 | 11369.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 179.0 | 1.6 |
| 10°-20° | 548.6 | 4.8 |
| 20°-30° | 849.0 | 7.5 |
| 30°-40° | 1053.3 | 9.3 |
| 40°-50° | 1540.3 | 13.5 |
| 50°-60° | 2412.7 | 21.2 |
| 60°-70° | 2862.8 | 25.2 |
| 70°-80° | 1669.7 | 14.7 |
| 80°-90° | 254.0 | 2.2 |
| 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° | 11369.5 | 100.0 |
| 0°-180° | 11369.5 | 100.0 |



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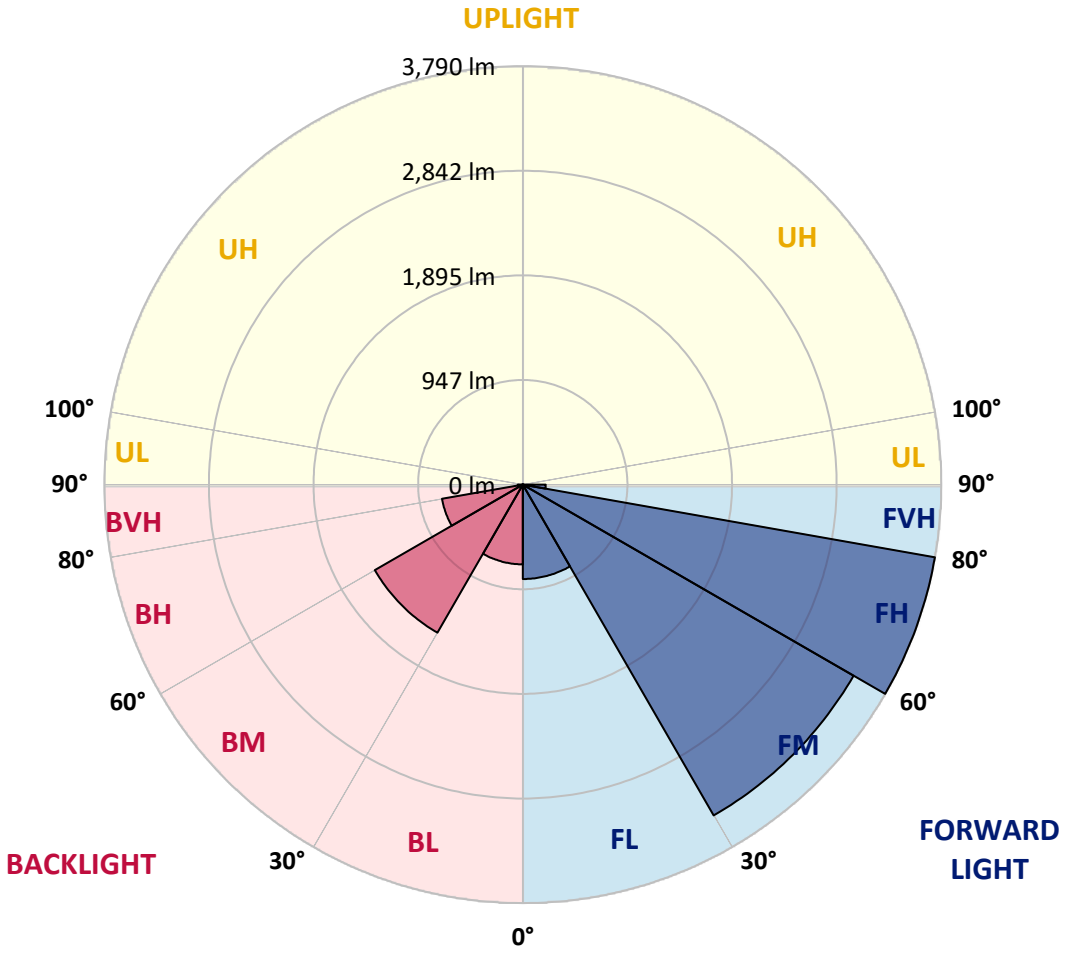
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 854.5 | 7.5 | | | |
| FM | (30°-60°) | 3458.8 | 30.4 | | | |
| FH | (60°-80°) | 3789.8 | 33.3 | | | G2/5000 |
| FVH | (80°-90°) | 207.8 | 1.8 | | | G2/225 |
| BL | (0°-30°) | 722.0 | 6.4 | B2/1000 | | |
| BM | (30°-60°) | 1547.5 | 13.6 | B2/2500 | | |
| BH | (60°-80°) | 742.8 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 46.3 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1958.9 | 1941.1 | 1923.6 | 1907.4 | 1891.3 | 1875.2 | 1858.8 | 1843.2 | 1827.4 | 1811.5 | 1797.6 |
| 5° | 2092.3 | 2060.9 | 2029.8 | 1997.0 | 1964.4 | 1932.5 | 1900.5 | 1870.2 | 1840.1 | 1808.7 | 1781.8 |
| 7.5° | 2227.2 | 2174.4 | 2121.5 | 2071.8 | 2022.0 | 1977.5 | 1933.0 | 1893.3 | 1853.2 | 1811.5 | 1779.0 |
| 10° | 2312.0 | 2248.9 | 2185.5 | 2123.8 | 2061.7 | 2007.0 | 1951.9 | 1906.0 | 1860.2 | 1815.7 | 1780.9 |
| 12.5° | 2355.1 | 2292.3 | 2229.4 | 2160.2 | 2090.9 | 2029.5 | 1968.0 | 1917.4 | 1867.1 | 1818.5 | 1784.5 |
| 15° | 2375.9 | 2312.3 | 2248.9 | 2178.5 | 2108.2 | 2042.0 | 1975.6 | 1918.6 | 1861.6 | 1807.3 | 1777.3 |
| 17.5° | 2381.5 | 2322.0 | 2262.8 | 2187.7 | 2112.6 | 2037.0 | 1961.7 | 1895.2 | 1829.0 | 1765.6 | 1740.0 |
| 20° | 2399.6 | 2339.5 | 2279.5 | 2198.8 | 2118.2 | 2029.5 | 1940.8 | 1853.5 | 1766.2 | 1682.2 | 1666.1 |
| 22.5° | 2419.0 | 2364.0 | 2309.2 | 2220.5 | 2132.1 | 2023.7 | 1915.2 | 1805.7 | 1696.1 | 1596.0 | 1580.7 |
| 25° | 2449.6 | 2402.1 | 2354.5 | 2257.8 | 2161.0 | 2023.1 | 1885.2 | 1748.7 | 1612.1 | 1497.3 | 1495.9 |
| 27.5° | 2494.1 | 2457.7 | 2421.3 | 2312.3 | 2203.6 | 2028.4 | 1853.2 | 1690.3 | 1527.1 | 1409.7 | 1416.7 |
| 30° | 2556.7 | 2528.0 | 2499.7 | 2376.8 | 2253.6 | 2039.8 | 1826.2 | 1639.4 | 1452.8 | 1338.8 | 1346.3 |
| 32.5° | 2633.1 | 2615.3 | 2597.6 | 2452.7 | 2307.8 | 2052.6 | 1797.6 | 1594.9 | 1392.5 | 1287.4 | 1287.4 |
| 35° | 2762.4 | 2740.2 | 2718.0 | 2533.3 | 2349.0 | 2049.5 | 1750.3 | 1544.3 | 1338.0 | 1256.8 | 1239.6 |
| 37.5° | 2926.5 | 2900.1 | 2873.7 | 2631.8 | 2389.8 | 2040.9 | 1691.9 | 1488.1 | 1284.6 | 1220.6 | 1187.8 |
| 40° | 3168.4 | 3116.4 | 3064.1 | 2744.4 | 2424.6 | 2021.4 | 1618.3 | 1421.1 | 1224.0 | 1173.4 | 1132.2 |
| 42.5° | 3507.6 | 3397.5 | 3287.1 | 2868.9 | 2450.2 | 1987.8 | 1525.1 | 1341.3 | 1157.2 | 1121.9 | 1071.1 |
| 45° | 3928.9 | 3752.3 | 3575.7 | 3038.0 | 2500.2 | 1964.7 | 1429.2 | 1260.1 | 1091.4 | 1059.4 | 1008.8 |
| 47.5° | 4332.0 | 4108.5 | 3884.9 | 3211.8 | 2538.6 | 1937.7 | 1336.9 | 1179.5 | 1022.7 | 985.7 | 938.4 |
| 50° | 4799.2 | 4496.1 | 4193.0 | 3363.3 | 2533.6 | 1891.9 | 1249.8 | 1107.8 | 965.4 | 914.8 | 868.1 |
| 52.5° | 5398.4 | 4917.1 | 4435.5 | 3435.0 | 2434.3 | 1797.9 | 1161.7 | 1043.2 | 925.4 | 860.6 | 810.5 |
| 55° | 6114.3 | 5340.0 | 4565.6 | 3416.1 | 2266.7 | 1673.3 | 1079.4 | 989.3 | 898.7 | 834.2 | 775.2 |
| 57.5° | 6844.2 | 5695.0 | 4546.1 | 3313.0 | 2079.8 | 1542.9 | 1006.0 | 943.7 | 881.4 | 827.2 | 754.9 |
| 60° | 7392.0 | 5854.1 | 4315.9 | 3065.8 | 1815.7 | 1378.0 | 940.4 | 896.7 | 853.1 | 810.5 | 738.2 |
| 62.5° | 7165.4 | 5501.2 | 3837.1 | 2660.7 | 1484.2 | 1168.9 | 853.6 | 829.1 | 805.0 | 786.9 | 717.9 |
| 65° | *6400.7* | *4744.9* | *3089.1* | *2087.1* | *1085.0* | *918.7* | *752.1* | *746.8* | *741.8* | *736.8* | *679.8* |
| 67.5° | 5683.4 | 4075.1 | 2466.9 | 1624.1 | 781.3 | 702.4 | 623.4 | 638.1 | 652.9 | 660.4 | 621.4 |
| 70° | 4996.6 | 3462.0 | 1927.5 | 1244.6 | 561.7 | 533.9 | 506.1 | 528.0 | 550.0 | 547.8 | 528.9 |
| 72.5° | 4288.9 | 2874.8 | 1460.3 | 935.6 | 411.0 | 410.4 | 410.1 | 426.8 | 443.5 | 421.2 | 433.2 |
| 75° | 3511.8 | 2295.3 | 1078.8 | 693.5 | 308.1 | 306.1 | 304.5 | 324.2 | 344.2 | 353.1 | 360.9 |
| 77.5° | 2335.6 | 1505.9 | 676.2 | 448.2 | 220.2 | 221.9 | 223.0 | 244.7 | 266.4 | 292.0 | 293.3 |
| 80° | 1370.8 | 863.3 | 355.9 | 247.7 | 139.6 | 141.2 | 142.4 | 165.2 | 187.7 | 223.8 | 222.4 |
| 82.5° | 685.4 | 432.6 | 180.2 | 133.2 | 86.2 | 86.5 | 86.8 | 97.9 | 109.0 | 129.3 | 134.9 |
| 85° | 155.7 | 102.9 | 50.0 | 42.3 | 34.8 | 36.4 | 38.4 | 45.6 | 52.8 | 64.0 | 67.3 |
| 87.5° | 12.5 | 12.2 | 11.7 | 11.4 | 11.1 | 11.7 | 12.5 | 13.9 | 15.3 | 16.7 | 19.5 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1782.6 | 1767.8 | 1756.2 | 1744.8 | 1734.8 | 1724.5 | 1712.5 | 1700.3 | 1691.7 | 1682.8 | 1676.9 |
| 5° | 1755.1 | 1728.9 | 1707.2 | 1685.5 | 1667.8 | 1649.4 | 1633.3 | 1616.9 | 1604.1 | 1591.0 | 1580.4 |
| 7.5° | 1746.4 | 1714.2 | 1686.1 | 1657.7 | 1633.8 | 1609.9 | 1589.9 | 1569.6 | 1550.4 | 1531.5 | 1519.3 |
| 10° | 1746.7 | 1712.8 | 1683.9 | 1655.0 | 1629.7 | 1604.4 | 1577.9 | 1551.5 | 1530.4 | 1509.3 | 1490.9 |
| 12.5° | 1756.2 | 1728.1 | 1707.8 | 1687.8 | 1664.4 | 1641.1 | 1609.6 | 1577.9 | 1549.3 | 1520.9 | 1498.4 |
| 15° | 1759.0 | 1740.6 | 1738.9 | 1737.3 | 1729.2 | 1721.1 | 1691.9 | 1662.7 | 1623.3 | 1583.5 | 1551.2 |
| 17.5° | 1737.5 | 1735.0 | 1762.6 | 1790.1 | 1805.9 | 1821.8 | 1801.5 | 1780.9 | 1725.3 | 1669.7 | 1621.6 |
| 20° | 1681.9 | 1697.5 | 1751.4 | 1805.1 | 1847.9 | 1890.7 | 1888.5 | 1886.6 | 1814.0 | 1741.2 | 1678.0 |
| 22.5° | 1604.1 | 1627.2 | 1697.5 | 1767.8 | 1829.6 | 1891.3 | 1907.2 | 1922.7 | 1851.5 | 1780.1 | 1702.2 |
| 25° | 1521.2 | 1546.5 | 1611.6 | 1676.6 | 1743.1 | 1809.6 | 1839.0 | 1868.5 | 1809.8 | 1751.2 | 1675.5 |
| 27.5° | 1440.9 | 1465.3 | 1513.7 | 1562.1 | 1615.5 | 1668.9 | 1702.0 | 1735.0 | 1699.2 | 1663.3 | 1602.1 |
| 30° | 1365.2 | 1384.1 | 1419.2 | 1454.2 | 1490.4 | 1526.5 | 1552.9 | 1579.3 | 1555.7 | 1532.1 | 1488.1 |
| 32.5° | 1295.4 | 1303.5 | 1326.3 | 1349.1 | 1376.1 | 1402.8 | 1417.5 | 1432.0 | 1413.6 | 1395.3 | 1366.3 |
| 35° | 1232.9 | 1226.2 | 1241.2 | 1256.2 | 1277.9 | 1299.9 | 1311.0 | 1322.1 | 1306.8 | 1291.5 | 1265.7 |
| 37.5° | 1170.0 | 1151.7 | 1158.9 | 1165.6 | 1184.2 | 1202.6 | 1218.4 | 1234.5 | 1223.4 | 1212.3 | 1190.3 |
| 40° | 1105.5 | 1078.8 | 1078.3 | 1077.4 | 1095.2 | 1112.8 | 1132.8 | 1152.5 | 1150.6 | 1148.4 | 1127.5 |
| 42.5° | 1037.1 | 1003.2 | 999.6 | 996.0 | 1013.5 | 1031.0 | 1052.1 | 1073.3 | 1077.4 | 1081.6 | 1064.4 |
| 45° | 973.7 | 939.3 | 933.7 | 928.1 | 943.1 | 958.7 | 981.8 | 1005.2 | 1014.9 | 1024.6 | 1009.0 |
| 47.5° | 908.7 | 878.6 | 875.3 | 871.7 | 887.5 | 903.7 | 929.2 | 955.1 | 965.4 | 976.0 | 965.4 |
| 50° | 843.6 | 818.9 | 823.0 | 827.2 | 844.7 | 862.0 | 882.0 | 902.3 | 921.5 | 940.4 | 938.4 |
| 52.5° | 792.2 | 773.5 | 786.6 | 799.4 | 815.2 | 831.4 | 852.2 | 873.1 | 893.1 | 913.4 | 916.5 |
| 55° | 754.6 | 734.1 | 752.4 | 770.8 | 789.9 | 809.1 | 828.6 | 848.1 | 867.0 | 885.6 | 889.8 |
| 57.5° | 726.0 | 697.4 | 715.7 | 734.1 | 754.9 | 775.8 | 795.2 | 814.7 | 836.7 | 858.6 | 862.0 |
| 60° | 702.1 | 665.9 | 678.2 | 690.1 | 711.5 | 732.7 | 753.0 | 773.0 | 795.2 | 817.5 | 821.9 |
| 62.5° | 670.7 | 623.4 | 625.1 | 626.2 | 650.4 | 674.3 | 691.0 | 707.6 | 728.8 | 750.2 | 756.6 |
| 65° | *629.0* | *578.3* | *572.8* | *567.2* | *590.0* | *613.1* | *626.2* | *639.5* | *657.9* | *676.2* | *682.6* |
| 67.5° | 576.7 | 531.6 | 520.2 | 508.8 | 530.0 | 551.1 | 561.9 | 572.8 | 585.3 | 597.8 | 605.0 |
| 70° | 502.2 | 475.5 | 468.2 | 461.0 | 478.2 | 495.5 | 504.9 | 514.4 | 524.4 | 534.4 | 538.3 |
| 72.5° | 427.1 | 421.2 | 416.0 | 411.0 | 424.0 | 437.1 | 445.2 | 453.2 | 462.7 | 472.1 | 474.4 |
| 75° | 357.6 | 354.5 | 350.6 | 347.0 | 357.0 | 367.0 | 373.1 | 379.5 | 389.3 | 399.0 | 403.2 |
| 77.5° | 286.1 | 278.6 | 274.7 | 270.3 | 279.4 | 288.6 | 294.5 | 300.3 | 308.4 | 316.4 | 317.5 |
| 80° | 213.5 | 204.4 | 201.3 | 198.0 | 204.6 | 211.3 | 213.5 | 215.5 | 222.2 | 228.6 | 228.6 |
| 82.5° | 134.9 | 134.9 | 132.9 | 130.7 | 129.3 | 127.9 | 125.1 | 122.3 | 129.0 | 135.7 | 137.9 |
| 85° | 67.8 | 68.1 | 65.1 | 61.7 | 57.8 | 53.4 | 52.6 | 51.4 | 51.2 | 50.6 | 52.6 |
| 87.5° | 21.1 | 22.8 | 24.5 | 25.6 | 27.2 | 28.4 | 27.5 | 26.4 | 25.3 | 24.5 | 22.2 |
| 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):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1671.1 | 1668.3 | 1665.5 | 1663.3 | 1661.4 | 1660.0 | 1661.4 | 1663.3 | 1665.5 | 1668.3 | 1671.1 |
| 5° | 1569.6 | 1565.2 | 1560.4 | 1557.4 | 1554.3 | 1551.5 | 1554.3 | 1557.4 | 1560.4 | 1565.2 | 1569.6 |
| 7.5° | 1507.0 | 1499.8 | 1492.6 | 1487.3 | 1482.0 | 1479.2 | 1482.0 | 1487.3 | 1492.6 | 1499.8 | 1507.0 |
| 10° | 1473.1 | 1462.8 | 1452.8 | 1447.3 | 1441.7 | 1437.5 | 1441.7 | 1447.3 | 1452.8 | 1462.8 | 1473.1 |
| 12.5° | 1475.9 | 1463.1 | 1450.9 | 1442.5 | 1434.2 | 1429.2 | 1434.2 | 1442.5 | 1450.9 | 1463.1 | 1475.9 |
| 15° | 1518.7 | 1500.9 | 1482.6 | 1472.3 | 1462.0 | 1454.2 | 1462.0 | 1472.3 | 1482.6 | 1500.9 | 1518.7 |
| 17.5° | 1573.8 | 1547.6 | 1521.5 | 1512.3 | 1502.9 | 1498.7 | 1502.9 | 1512.3 | 1521.5 | 1547.6 | 1573.8 |
| 20° | 1614.9 | 1579.9 | 1545.4 | 1531.5 | 1517.6 | 1512.6 | 1517.6 | 1531.5 | 1545.4 | 1579.9 | 1614.9 |
| 22.5° | 1624.4 | 1583.2 | 1541.8 | 1528.7 | 1515.4 | 1509.8 | 1515.4 | 1528.7 | 1541.8 | 1583.2 | 1624.4 |
| 25° | 1600.2 | 1556.8 | 1513.2 | 1499.8 | 1486.2 | 1482.0 | 1486.2 | 1499.8 | 1513.2 | 1556.8 | 1600.2 |
| 27.5° | 1541.0 | 1502.6 | 1463.9 | 1449.8 | 1435.3 | 1426.4 | 1435.3 | 1449.8 | 1463.9 | 1502.6 | 1541.0 |
| 30° | 1444.5 | 1415.8 | 1387.5 | 1378.6 | 1369.4 | 1365.2 | 1369.4 | 1378.6 | 1387.5 | 1415.8 | 1444.5 |
| 32.5° | 1337.4 | 1319.6 | 1301.8 | 1296.0 | 1290.2 | 1287.4 | 1290.2 | 1296.0 | 1301.8 | 1319.6 | 1337.4 |
| 35° | 1240.1 | 1227.3 | 1214.5 | 1209.8 | 1205.4 | 1201.2 | 1205.4 | 1209.8 | 1214.5 | 1227.3 | 1240.1 |
| 37.5° | 1168.4 | 1153.4 | 1137.8 | 1129.4 | 1121.1 | 1115.0 | 1121.1 | 1129.4 | 1137.8 | 1153.4 | 1168.4 |
| 40° | 1106.6 | 1085.0 | 1063.5 | 1052.1 | 1040.5 | 1034.4 | 1040.5 | 1052.1 | 1063.5 | 1085.0 | 1106.6 |
| 42.5° | 1046.9 | 1021.8 | 996.8 | 979.3 | 962.1 | 950.9 | 962.1 | 979.3 | 996.8 | 1021.8 | 1046.9 |
| 45° | 993.2 | 965.1 | 937.0 | 916.2 | 895.3 | 881.4 | 895.3 | 916.2 | 937.0 | 965.1 | 993.2 |
| 47.5° | 955.1 | 930.9 | 906.4 | 888.1 | 869.7 | 856.4 | 869.7 | 888.1 | 906.4 | 930.9 | 955.1 |
| 50° | 936.5 | 917.3 | 898.1 | 880.9 | 863.3 | 850.8 | 863.3 | 880.9 | 898.1 | 917.3 | 936.5 |
| 52.5° | 919.8 | 905.9 | 892.0 | 877.0 | 862.0 | 850.8 | 862.0 | 877.0 | 892.0 | 905.9 | 919.8 |
| 55° | 893.9 | 883.9 | 873.6 | 862.5 | 851.4 | 842.5 | 851.4 | 862.5 | 873.6 | 883.9 | 893.9 |
| 57.5° | 865.3 | 854.7 | 843.9 | 835.5 | 827.2 | 823.0 | 827.2 | 835.5 | 843.9 | 854.7 | 865.3 |
| 60° | 826.4 | 818.0 | 809.7 | 801.9 | 793.8 | 786.9 | 793.8 | 801.9 | 809.7 | 818.0 | 826.4 |
| 62.5° | 763.3 | 759.4 | 755.7 | 746.8 | 738.2 | 728.5 | 738.2 | 746.8 | 755.7 | 759.4 | 763.3 |
| 65° | *689.0* | *687.1* | *685.4* | *679.0* | *672.9* | *661.8* | *672.9* | *679.0* | *685.4* | *687.1* | *689.0* |
| 67.5° | 612.3 | 608.7 | 604.8 | 598.1 | 591.7 | 589.5 | 591.7 | 598.1 | 604.8 | 608.7 | 612.3 |
| 70° | 542.2 | 536.6 | 531.1 | 516.1 | 501.0 | 483.8 | 501.0 | 516.1 | 531.1 | 536.6 | 542.2 |
| 72.5° | 476.9 | 468.2 | 459.3 | 441.8 | 424.0 | 406.0 | 424.0 | 441.8 | 459.3 | 468.2 | 476.9 |
| 75° | 407.3 | 395.1 | 383.2 | 364.5 | 346.2 | 333.7 | 346.2 | 364.5 | 383.2 | 395.1 | 407.3 |
| 77.5° | 319.2 | 308.6 | 298.1 | 286.9 | 275.8 | 269.7 | 275.8 | 286.9 | 298.1 | 308.6 | 319.2 |
| 80° | 228.6 | 220.8 | 212.7 | 207.1 | 201.6 | 197.4 | 201.6 | 207.1 | 212.7 | 220.8 | 228.6 |
| 82.5° | 140.4 | 136.8 | 133.5 | 127.3 | 121.0 | 116.8 | 121.0 | 127.3 | 133.5 | 136.8 | 140.4 |
| 85° | 54.2 | 53.4 | 52.8 | 50.6 | 48.7 | 47.3 | 48.7 | 50.6 | 52.8 | 53.4 | 54.2 |
| 87.5° | 20.0 | 18.4 | 16.7 | 15.6 | 14.5 | 13.9 | 14.5 | 15.6 | 16.7 | 18.4 | 20.0 |
| 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: P1364391
CATALOG NUMBER: GSS-SB3A-850-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1676.9 | 1682.8 | 1691.7 | 1700.3 | 1712.5 | 1724.5 | 1734.8 | 1744.8 | 1756.2 | 1767.8 | 1782.6 |
| 5° | 1580.4 | 1591.0 | 1604.1 | 1616.9 | 1633.3 | 1649.4 | 1667.8 | 1685.5 | 1707.2 | 1728.9 | 1755.1 |
| 7.5° | 1519.3 | 1531.5 | 1550.4 | 1569.6 | 1589.9 | 1609.9 | 1633.8 | 1657.7 | 1686.1 | 1714.2 | 1746.4 |
| 10° | 1490.9 | 1509.3 | 1530.4 | 1551.5 | 1577.9 | 1604.4 | 1629.7 | 1655.0 | 1683.9 | 1712.8 | 1746.7 |
| 12.5° | 1498.4 | 1520.9 | 1549.3 | 1577.9 | 1609.6 | 1641.1 | 1664.4 | 1687.8 | 1707.8 | 1728.1 | 1756.2 |
| 15° | 1551.2 | 1583.5 | 1623.3 | 1662.7 | 1691.9 | 1721.1 | 1729.2 | 1737.3 | 1738.9 | 1740.6 | 1759.0 |
| 17.5° | 1621.6 | 1669.7 | 1725.3 | 1780.9 | 1801.5 | 1821.8 | 1805.9 | 1790.1 | 1762.6 | 1735.0 | 1737.5 |
| 20° | 1678.0 | 1741.2 | 1814.0 | 1886.6 | 1888.5 | 1890.7 | 1847.9 | 1805.1 | 1751.4 | 1697.5 | 1681.9 |
| 22.5° | 1702.2 | 1780.1 | 1851.5 | 1922.7 | 1907.2 | 1891.3 | 1829.6 | 1767.8 | 1697.5 | 1627.2 | 1604.1 |
| 25° | 1675.5 | 1751.2 | 1809.8 | 1868.5 | 1839.0 | 1809.6 | 1743.1 | 1676.6 | 1611.6 | 1546.5 | 1521.2 |
| 27.5° | 1602.1 | 1663.3 | 1699.2 | 1735.0 | 1702.0 | 1668.9 | 1615.5 | 1562.1 | 1513.7 | 1465.3 | 1440.9 |
| 30° | 1488.1 | 1532.1 | 1555.7 | 1579.3 | 1552.9 | 1526.5 | 1490.4 | 1454.2 | 1419.2 | 1384.1 | 1365.2 |
| 32.5° | 1366.3 | 1395.3 | 1413.6 | 1432.0 | 1417.5 | 1402.8 | 1376.1 | 1349.1 | 1326.3 | 1303.5 | 1295.4 |
| 35° | 1265.7 | 1291.5 | 1306.8 | 1322.1 | 1311.0 | 1299.9 | 1277.9 | 1256.2 | 1241.2 | 1226.2 | 1232.9 |
| 37.5° | 1190.3 | 1212.3 | 1223.4 | 1234.5 | 1218.4 | 1202.6 | 1184.2 | 1165.6 | 1158.9 | 1151.7 | 1170.0 |
| 40° | 1127.5 | 1148.4 | 1150.6 | 1152.5 | 1132.8 | 1112.8 | 1095.2 | 1077.4 | 1078.3 | 1078.8 | 1105.5 |
| 42.5° | 1064.4 | 1081.6 | 1077.4 | 1073.3 | 1052.1 | 1031.0 | 1013.5 | 996.0 | 999.6 | 1003.2 | 1037.1 |
| 45° | 1009.0 | 1024.6 | 1014.9 | 1005.2 | 981.8 | 958.7 | 943.1 | 928.1 | 933.7 | 939.3 | 973.7 |
| 47.5° | 965.4 | 976.0 | 965.4 | 955.1 | 929.2 | 903.7 | 887.5 | 871.7 | 875.3 | 878.6 | 908.7 |
| 50° | 938.4 | 940.4 | 921.5 | 902.3 | 882.0 | 862.0 | 844.7 | 827.2 | 823.0 | 818.9 | 843.6 |
| 52.5° | 916.5 | 913.4 | 893.1 | 873.1 | 852.2 | 831.4 | 815.2 | 799.4 | 786.6 | 773.5 | 792.2 |
| 55° | 889.8 | 885.6 | 867.0 | 848.1 | 828.6 | 809.1 | 789.9 | 770.8 | 752.4 | 734.1 | 754.6 |
| 57.5° | 862.0 | 858.6 | 836.7 | 814.7 | 795.2 | 775.8 | 754.9 | 734.1 | 715.7 | 697.4 | 726.0 |
| 60° | 821.9 | 817.5 | 795.2 | 773.0 | 753.0 | 732.7 | 711.5 | 690.1 | 678.2 | 665.9 | 702.1 |
| 62.5° | 756.6 | 750.2 | 728.8 | 707.6 | 691.0 | 674.3 | 650.4 | 626.2 | 625.1 | 623.4 | 670.7 |
| 65° | *682.6* | *676.2* | *657.9* | *639.5* | *626.2* | *613.1* | *590.0* | *567.2* | *572.8* | *578.3* | *629.0* |
| 67.5° | 605.0 | 597.8 | 585.3 | 572.8 | 561.9 | 551.1 | 530.0 | 508.8 | 520.2 | 531.6 | 576.7 |
| 70° | 538.3 | 534.4 | 524.4 | 514.4 | 504.9 | 495.5 | 478.2 | 461.0 | 468.2 | 475.5 | 502.2 |
| 72.5° | 474.4 | 472.1 | 462.7 | 453.2 | 445.2 | 437.1 | 424.0 | 411.0 | 416.0 | 421.2 | 427.1 |
| 75° | 403.2 | 399.0 | 389.3 | 379.5 | 373.1 | 367.0 | 357.0 | 347.0 | 350.6 | 354.5 | 357.6 |
| 77.5° | 317.5 | 316.4 | 308.4 | 300.3 | 294.5 | 288.6 | 279.4 | 270.3 | 274.7 | 278.6 | 286.1 |
| 80° | 228.6 | 228.6 | 222.2 | 215.5 | 213.5 | 211.3 | 204.6 | 198.0 | 201.3 | 204.4 | 213.5 |
| 82.5° | 137.9 | 135.7 | 129.0 | 122.3 | 125.1 | 127.9 | 129.3 | 130.7 | 132.9 | 134.9 | 134.9 |
| 85° | 52.6 | 50.6 | 51.2 | 51.4 | 52.6 | 53.4 | 57.8 | 61.7 | 65.1 | 68.1 | 67.8 |
| 87.5° | 22.2 | 24.5 | 25.3 | 26.4 | 27.5 | 28.4 | 27.2 | 25.6 | 24.5 | 22.8 | 21.1 |
| 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: P1364391
CATALOG NUMBER: GSS-SB3A-850-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1797.6 | 1811.5 | 1827.4 | 1843.2 | 1858.8 | 1875.2 | 1891.3 | 1907.4 | 1923.6 | 1941.1 | 1958.9 |
| 5° | 1781.8 | 1808.7 | 1840.1 | 1870.2 | 1900.5 | 1932.5 | 1964.4 | 1997.0 | 2029.8 | 2060.9 | 2092.3 |
| 7.5° | 1779.0 | 1811.5 | 1853.2 | 1893.3 | 1933.0 | 1977.5 | 2022.0 | 2071.8 | 2121.5 | 2174.4 | 2227.2 |
| 10° | 1780.9 | 1815.7 | 1860.2 | 1906.0 | 1951.9 | 2007.0 | 2061.7 | 2123.8 | 2185.5 | 2248.9 | 2312.0 |
| 12.5° | 1784.5 | 1818.5 | 1867.1 | 1917.4 | 1968.0 | 2029.5 | 2090.9 | 2160.2 | 2229.4 | 2292.3 | 2355.1 |
| 15° | 1777.3 | 1807.3 | 1861.6 | 1918.6 | 1975.6 | 2042.0 | 2108.2 | 2178.5 | 2248.9 | 2312.3 | 2375.9 |
| 17.5° | 1740.0 | 1765.6 | 1829.0 | 1895.2 | 1961.7 | 2037.0 | 2112.6 | 2187.7 | 2262.8 | 2322.0 | 2381.5 |
| 20° | 1666.1 | 1682.2 | 1766.2 | 1853.5 | 1940.8 | 2029.5 | 2118.2 | 2198.8 | 2279.5 | 2339.5 | 2399.6 |
| 22.5° | 1580.7 | 1596.0 | 1696.1 | 1805.7 | 1915.2 | 2023.7 | 2132.1 | 2220.5 | 2309.2 | 2364.0 | 2419.0 |
| 25° | 1495.9 | 1497.3 | 1612.1 | 1748.7 | 1885.2 | 2023.1 | 2161.0 | 2257.8 | 2354.5 | 2402.1 | 2449.6 |
| 27.5° | 1416.7 | 1409.7 | 1527.1 | 1690.3 | 1853.2 | 2028.4 | 2203.6 | 2312.3 | 2421.3 | 2457.7 | 2494.1 |
| 30° | 1346.3 | 1338.8 | 1452.8 | 1639.4 | 1826.2 | 2039.8 | 2253.6 | 2376.8 | 2499.7 | 2528.0 | 2556.7 |
| 32.5° | 1287.4 | 1287.4 | 1392.5 | 1594.9 | 1797.6 | 2052.6 | 2307.8 | 2452.7 | 2597.6 | 2615.3 | 2633.1 |
| 35° | 1239.6 | 1256.8 | 1338.0 | 1544.3 | 1750.3 | 2049.5 | 2349.0 | 2533.3 | 2718.0 | 2740.2 | 2762.4 |
| 37.5° | 1187.8 | 1220.6 | 1284.6 | 1488.1 | 1691.9 | 2040.9 | 2389.8 | 2631.8 | 2873.7 | 2900.1 | 2926.5 |
| 40° | 1132.2 | 1173.4 | 1224.0 | 1421.1 | 1618.3 | 2021.4 | 2424.6 | 2744.4 | 3064.1 | 3116.4 | 3168.4 |
| 42.5° | 1071.1 | 1121.9 | 1157.2 | 1341.3 | 1525.1 | 1987.8 | 2450.2 | 2868.9 | 3287.1 | 3397.5 | 3507.6 |
| 45° | 1008.8 | 1059.4 | 1091.4 | 1260.1 | 1429.2 | 1964.7 | 2500.2 | 3038.0 | 3575.7 | 3752.3 | 3928.9 |
| 47.5° | 938.4 | 985.7 | 1022.7 | 1179.5 | 1336.9 | 1937.7 | 2538.6 | 3211.8 | 3884.9 | 4108.5 | 4332.0 |
| 50° | 868.1 | 914.8 | 965.4 | 1107.8 | 1249.8 | 1891.9 | 2533.6 | 3363.3 | 4193.0 | 4496.1 | 4799.2 |
| 52.5° | 810.5 | 860.6 | 925.4 | 1043.2 | 1161.7 | 1797.9 | 2434.3 | 3435.0 | 4435.5 | 4917.1 | 5398.4 |
| 55° | 775.2 | 834.2 | 898.7 | 989.3 | 1079.4 | 1673.3 | 2266.7 | 3416.1 | 4565.6 | 5340.0 | 6114.3 |
| 57.5° | 754.9 | 827.2 | 881.4 | 943.7 | 1006.0 | 1542.9 | 2079.8 | 3313.0 | 4546.1 | 5695.0 | 6844.2 |
| 60° | 738.2 | 810.5 | 853.1 | 896.7 | 940.4 | 1378.0 | 1815.7 | 3065.8 | 4315.9 | 5854.1 | 7392.0 |
| 62.5° | 717.9 | 786.9 | 805.0 | 829.1 | 853.6 | 1168.9 | 1484.2 | 2660.7 | 3837.1 | 5501.2 | 7165.4 |
| 65° | *679.8* | *736.8* | *741.8* | *746.8* | *752.1* | *918.7* | *1085.0* | *2087.1* | *3089.1* | *4744.9* | *6400.7* |
| 67.5° | 621.4 | 660.4 | 652.9 | 638.1 | 623.4 | 702.4 | 781.3 | 1624.1 | 2466.9 | 4075.1 | 5683.4 |
| 70° | 528.9 | 547.8 | 550.0 | 528.0 | 506.1 | 533.9 | 561.7 | 1244.6 | 1927.5 | 3462.0 | 4996.6 |
| 72.5° | 433.2 | 421.2 | 443.5 | 426.8 | 410.1 | 410.4 | 411.0 | 935.6 | 1460.3 | 2874.8 | 4288.9 |
| 75° | 360.9 | 353.1 | 344.2 | 324.2 | 304.5 | 306.1 | 308.1 | 693.5 | 1078.8 | 2295.3 | 3511.8 |
| 77.5° | 293.3 | 292.0 | 266.4 | 244.7 | 223.0 | 221.9 | 220.2 | 448.2 | 676.2 | 1505.9 | 2335.6 |
| 80° | 222.4 | 223.8 | 187.7 | 165.2 | 142.4 | 141.2 | 139.6 | 247.7 | 355.9 | 863.3 | 1370.8 |
| 82.5° | 134.9 | 129.3 | 109.0 | 97.9 | 86.8 | 86.5 | 86.2 | 133.2 | 180.2 | 432.6 | 685.4 |
| 85° | 67.3 | 64.0 | 52.8 | 45.6 | 38.4 | 36.4 | 34.8 | 42.3 | 50.0 | 102.9 | 155.7 |
| 87.5° | 19.5 | 16.7 | 15.3 | 13.9 | 12.5 | 11.7 | 11.1 | 11.4 | 11.7 | 12.2 | 12.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1364391
CATALOG NUMBER: GSS-SB3A-850-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | *1812.9* | 1812.9 | 1812.9 |
| 2.5° | 1965.8 | 1972.8 | 1980.3 | 1988.1 | 1992.5 | 1997.0 | 2001.7 | 2006.1 | *2010.3* | 2006.1 | 2001.7 |
| 5° | 2123.8 | 2154.9 | 2176.0 | 2197.2 | 2213.3 | 2229.4 | 2238.6 | 2248.0 | *2249.4* | 2248.0 | 2238.6 |
| 7.5° | 2264.4 | 2301.7 | 2334.0 | 2366.2 | 2386.8 | 2407.4 | 2419.3 | 2431.6 | *2435.7* | 2431.6 | 2419.3 |
| 10° | 2355.6 | 2399.6 | 2430.7 | 2462.1 | 2481.3 | 2500.2 | 2509.7 | 2519.1 | *2521.9* | 2519.1 | 2509.7 |
| 12.5° | 2397.1 | 2439.1 | 2463.3 | 2487.2 | 2499.4 | 2511.4 | 2515.8 | 2519.7 | *2516.4* | 2519.7 | 2515.8 |
| 15° | 2400.7 | 2425.2 | 2435.5 | 2445.5 | 2439.6 | 2433.5 | 2424.9 | 2416.3 | *2410.7* | 2416.3 | 2424.9 |
| 17.5° | 2390.1 | 2399.0 | 2380.4 | 2362.0 | 2328.7 | 2295.3 | 2270.3 | 2245.3 | *2227.2* | 2245.3 | 2270.3 |
| 20° | 2385.7 | 2371.8 | 2322.3 | 2273.1 | 2210.5 | 2147.9 | 2106.0 | 2063.7 | *2038.1* | 2063.7 | 2106.0 |
| 22.5° | 2379.8 | 2340.6 | 2257.5 | 2174.4 | 2088.7 | 2003.4 | 1955.0 | 1906.9 | *1879.6* | 1906.9 | 1955.0 |
| 25° | 2382.3 | 2314.8 | 2202.4 | 2090.4 | 1989.7 | 1889.4 | 1836.8 | 1784.5 | *1754.5* | 1784.5 | 1836.8 |
| 27.5° | 2391.2 | 2288.4 | 2149.3 | 2010.3 | 1901.3 | 1792.0 | 1742.0 | 1691.9 | *1665.5* | 1691.9 | 1742.0 |
| 30° | 2420.2 | 2283.4 | 2117.1 | 1950.5 | 1836.5 | 1722.5 | 1673.6 | 1624.4 | *1596.0* | 1624.4 | 1673.6 |
| 32.5° | 2460.8 | 2288.4 | 2102.1 | 1915.8 | 1799.5 | 1683.6 | 1636.6 | 1589.9 | *1565.4* | 1589.9 | 1636.6 |
| 35° | 2544.2 | 2325.9 | 2119.3 | 1913.0 | 1805.1 | 1697.5 | 1663.0 | 1628.8 | *1615.5* | 1628.8 | 1663.0 |
| 37.5° | 2671.5 | 2416.3 | 2203.6 | 1990.8 | 1917.4 | 1844.0 | 1844.0 | 1844.0 | *1854.6* | 1844.0 | 1844.0 |
| 40° | 2882.0 | 2595.6 | 2394.3 | 2193.3 | 2188.8 | 2184.9 | 2231.6 | 2278.6 | *2299.5* | 2278.6 | 2231.6 |
| 42.5° | 3204.8 | 2902.3 | 2739.9 | 2577.5 | 2674.9 | 2772.2 | 2907.3 | 3042.4 | *3130.9* | 3042.4 | 2907.3 |
| 45° | 3634.1 | 3339.4 | 3225.9 | 3112.8 | 3329.4 | 3545.7 | 3784.6 | 4023.4 | *4193.0* | 4023.4 | 3784.6 |
| 47.5° | 4084.0 | 3835.7 | 3770.9 | 3706.4 | 4066.5 | 4426.6 | 4776.6 | 5126.7 | *5333.0* | 5126.7 | 4776.6 |
| 50° | 4576.2 | 4352.9 | 4340.4 | 4327.9 | 4807.5 | 5287.1 | 5739.0 | 6190.8 | *6442.4* | 6190.8 | 5739.0 |
| 52.5° | 5153.4 | 4908.2 | 4918.2 | 4927.6 | 5497.3 | 6067.1 | 6613.4 | 7159.8 | *7443.4* | 7159.8 | 6613.4 |
| 55° | 5807.1 | 5499.9 | 5498.2 | 5496.5 | 6151.0 | 6806.1 | 7477.4 | 8149.1 | *8527.8* | 8149.1 | 7477.4 |
| 57.5° | 6556.4 | 6268.7 | 6200.3 | 6131.6 | 6816.1 | 7500.4 | 8241.7 | 8983.3 | *9381.4* | 8983.3 | 8241.7 |
| 60° | 7233.5 | 7075.0 | 6965.5 | 6856.2 | 7559.1 | 8262.3 | 9028.0 | 9793.5 | *10190.6* | 9793.5 | 9028.0 |
| 62.5° | 7448.7 | 7732.0 | 7724.0 | 7715.9 | 8474.7 | 9233.5 | 10029.9 | 10826.8 | *11183.2* | 10826.8 | 10029.9 |
| 65° | *6852.6* | *7304.4* | *7615.3* | *7925.8* | *8843.1* | *9760.2* | *10589.9* | *11419.6* | *11783.8* | *11419.6* | *10589.9* |
| 67.5° | 6081.5 | 6480.0 | 6734.4 | 6988.8 | 8022.3 | 9056.1 | 9997.6 | 10939.1 | *11313.9* | 10939.1 | 9997.6 |
| 70° | 5437.6 | 5878.6 | 6060.4 | 6242.2 | 7120.3 | 7998.1 | 8743.0 | 9487.7 | *9634.5* | 9487.7 | 8743.0 |
| 72.5° | 4813.3 | 5338.0 | 5415.0 | 5492.1 | 6131.0 | 6770.0 | 7166.8 | 7563.5 | *7243.2* | 7563.5 | 7166.8 |
| 75° | 4103.5 | 4694.9 | 4746.3 | 4797.8 | 4996.9 | 5196.2 | 5297.2 | 5398.4 | *5216.2* | 5398.4 | 5297.2 |
| 77.5° | 2847.8 | 3360.2 | 3475.6 | 3591.0 | 3723.7 | 3856.6 | 3849.6 | 3842.7 | *3586.9* | 3842.7 | 3849.6 |
| 80° | 1771.5 | 2172.1 | 2187.2 | 2202.2 | 2301.7 | 2401.0 | 2502.5 | 2603.9 | *2441.3* | 2603.9 | 2502.5 |
| 82.5° | 905.3 | 1125.6 | 1159.5 | 1193.4 | 1254.3 | 1315.2 | 1343.5 | 1372.2 | *1234.5* | 1372.2 | 1343.5 |
| 85° | 213.0 | 270.3 | 325.6 | 380.9 | 444.9 | 508.8 | 501.6 | 494.4 | *417.1* | 494.4 | 501.6 |
| 87.5° | 12.8 | 13.3 | 13.6 | 13.9 | 14.2 | 14.5 | 15.3 | 16.1 | *16.7* | 16.1 | 15.3 |
| 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: P1364391
CATALOG NUMBER: GSS-SB3A-850-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 | 1812.9 |
| 2.5° | 1997.0 | 1992.5 | 1988.1 | 1980.3 | 1972.8 | 1965.8 | 1958.9 |
| 5° | 2229.4 | 2213.3 | 2197.2 | 2176.0 | 2154.9 | 2123.8 | 2092.3 |
| 7.5° | 2407.4 | 2386.8 | 2366.2 | 2334.0 | 2301.7 | 2264.4 | 2227.2 |
| 10° | 2500.2 | 2481.3 | 2462.1 | 2430.7 | 2399.6 | 2355.6 | 2312.0 |
| 12.5° | 2511.4 | 2499.4 | 2487.2 | 2463.3 | 2439.1 | 2397.1 | 2355.1 |
| 15° | 2433.5 | 2439.6 | 2445.5 | 2435.5 | 2425.2 | 2400.7 | 2375.9 |
| 17.5° | 2295.3 | 2328.7 | 2362.0 | 2380.4 | 2399.0 | 2390.1 | 2381.5 |
| 20° | 2147.9 | 2210.5 | 2273.1 | 2322.3 | 2371.8 | 2385.7 | 2399.6 |
| 22.5° | 2003.4 | 2088.7 | 2174.4 | 2257.5 | 2340.6 | 2379.8 | 2419.0 |
| 25° | 1889.4 | 1989.7 | 2090.4 | 2202.4 | 2314.8 | 2382.3 | 2449.6 |
| 27.5° | 1792.0 | 1901.3 | 2010.3 | 2149.3 | 2288.4 | 2391.2 | 2494.1 |
| 30° | 1722.5 | 1836.5 | 1950.5 | 2117.1 | 2283.4 | 2420.2 | 2556.7 |
| 32.5° | 1683.6 | 1799.5 | 1915.8 | 2102.1 | 2288.4 | 2460.8 | 2633.1 |
| 35° | 1697.5 | 1805.1 | 1913.0 | 2119.3 | 2325.9 | 2544.2 | 2762.4 |
| 37.5° | 1844.0 | 1917.4 | 1990.8 | 2203.6 | 2416.3 | 2671.5 | 2926.5 |
| 40° | 2184.9 | 2188.8 | 2193.3 | 2394.3 | 2595.6 | 2882.0 | 3168.4 |
| 42.5° | 2772.2 | 2674.9 | 2577.5 | 2739.9 | 2902.3 | 3204.8 | 3507.6 |
| 45° | 3545.7 | 3329.4 | 3112.8 | 3225.9 | 3339.4 | 3634.1 | 3928.9 |
| 47.5° | 4426.6 | 4066.5 | 3706.4 | 3770.9 | 3835.7 | 4084.0 | 4332.0 |
| 50° | 5287.1 | 4807.5 | 4327.9 | 4340.4 | 4352.9 | 4576.2 | 4799.2 |
| 52.5° | 6067.1 | 5497.3 | 4927.6 | 4918.2 | 4908.2 | 5153.4 | 5398.4 |
| 55° | 6806.1 | 6151.0 | 5496.5 | 5498.2 | 5499.9 | 5807.1 | 6114.3 |
| 57.5° | 7500.4 | 6816.1 | 6131.6 | 6200.3 | 6268.7 | 6556.4 | 6844.2 |
| 60° | 8262.3 | 7559.1 | 6856.2 | 6965.5 | 7075.0 | 7233.5 | 7392.0 |
| 62.5° | 9233.5 | 8474.7 | 7715.9 | 7724.0 | 7732.0 | 7448.7 | 7165.4 |
| 65° | *9760.2* | *8843.1* | *7925.8* | *7615.3* | *7304.4* | *6852.6* | *6400.7* |
| 67.5° | 9056.1 | 8022.3 | 6988.8 | 6734.4 | 6480.0 | 6081.5 | 5683.4 |
| 70° | 7998.1 | 7120.3 | 6242.2 | 6060.4 | 5878.6 | 5437.6 | 4996.6 |
| 72.5° | 6770.0 | 6131.0 | 5492.1 | 5415.0 | 5338.0 | 4813.3 | 4288.9 |
| 75° | 5196.2 | 4996.9 | 4797.8 | 4746.3 | 4694.9 | 4103.5 | 3511.8 |
| 77.5° | 3856.6 | 3723.7 | 3591.0 | 3475.6 | 3360.2 | 2847.8 | 2335.6 |
| 80° | 2401.0 | 2301.7 | 2202.2 | 2187.2 | 2172.1 | 1771.5 | 1370.8 |
| 82.5° | 1315.2 | 1254.3 | 1193.4 | 1159.5 | 1125.6 | 905.3 | 685.4 |
| 85° | 508.8 | 444.9 | 380.9 | 325.6 | 270.3 | 213.0 | 155.7 |
| 87.5° | 14.5 | 14.2 | 13.9 | 13.6 | 13.3 | 12.8 | 12.5 |
| 90° | 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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

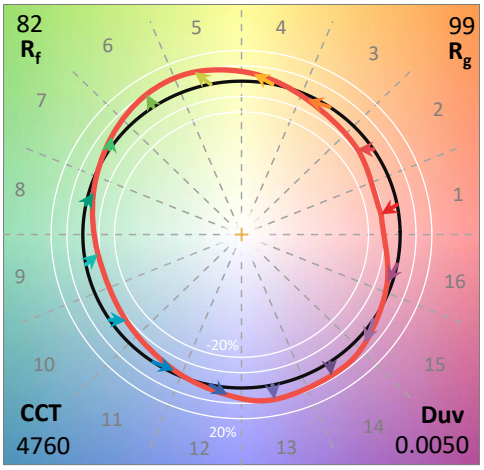
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-12 |
| 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-850-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 4760 |
| CIE u': | 0.2107 |
| CIE v': | 0.4939 |
| Duv: | 0.0050 |
| CIE x: | 0.3537 |
| CIE y: | 0.3685 |
| CIE z: | 0.2779 |
| Peak Wavelength (nm): | 443 |
| Dominant Wavelength (nm): | 571 |
| Purity: | 16.69598 |
| Rf: | 82 |
| Rg: | 99.4 |

| | |
|---|---|
| CRI (Ra): | 81.1 |
| R1: | 79.8 |
| R2: | 83.5 |
| R3: | 87.9 |
| R4: | 83.1 |
| R5: | 80.5 |
| R6: | 79.1 |
| R7: | 86.1 |
| R8: | 69.0 |
| R9: | 8.7 |
| R10: | 62.4 |
| R11: | 83.8 |
| R12: | 63.0 |
| R13: | 79.9 |
| R14: | 93.3 |
| R15: | 72.7 |




## Test Conditions

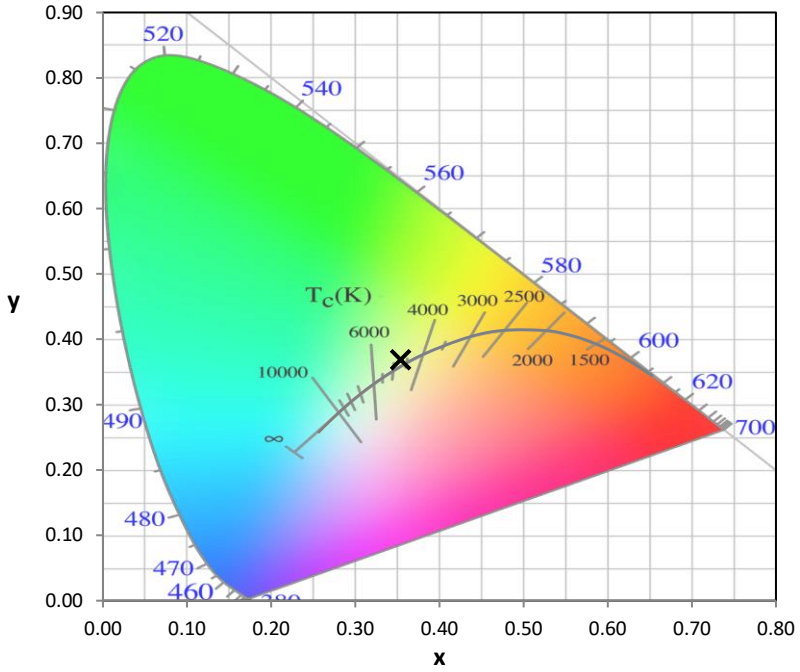
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-12

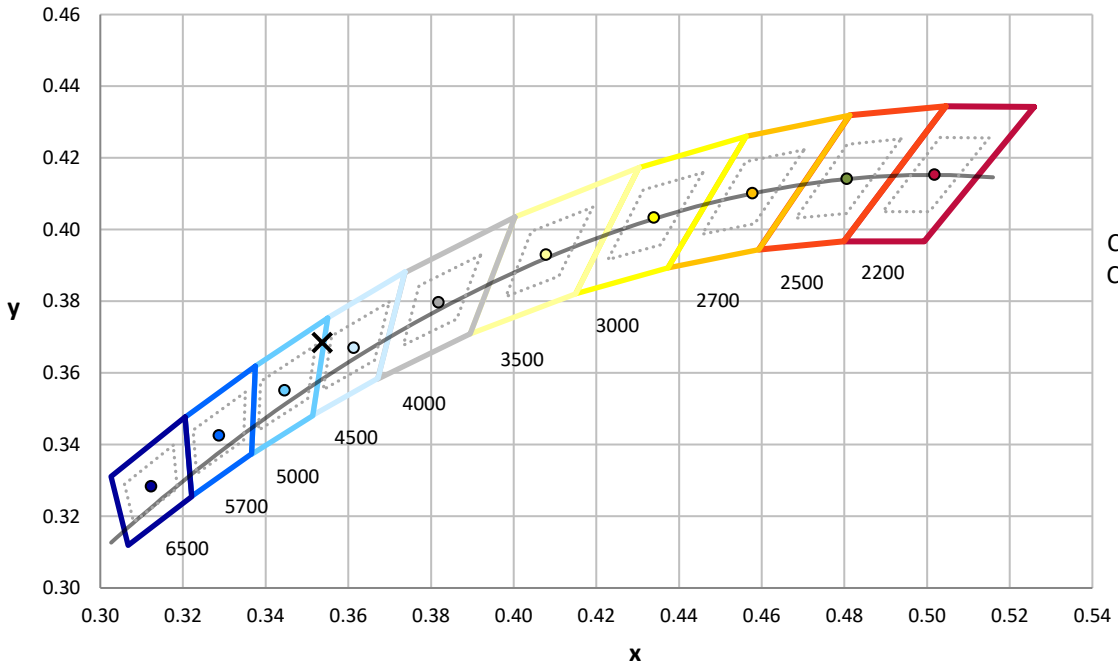
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

## CIE 1931 Chromaticity Diagram




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

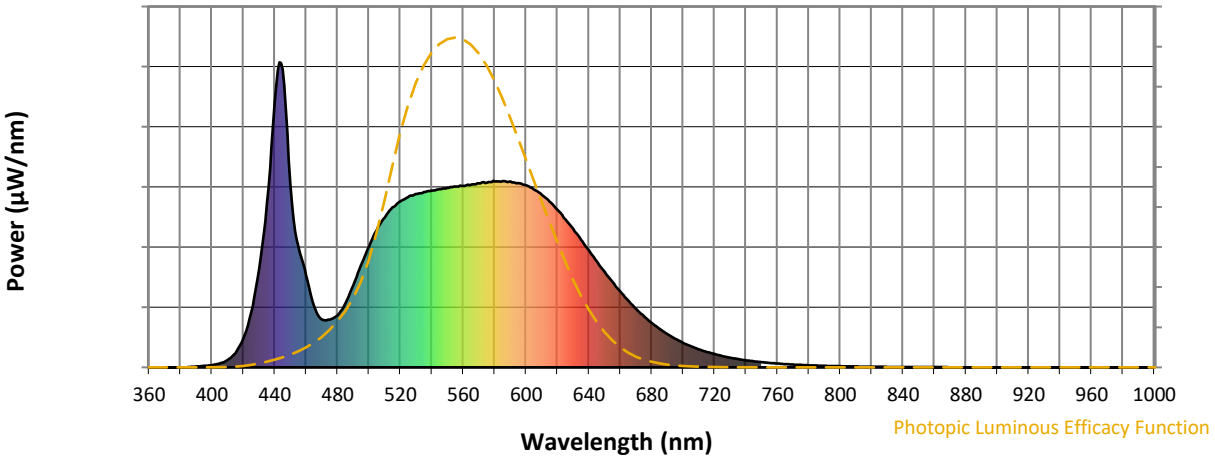



CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

## Photopic Flux vs. Wavelength

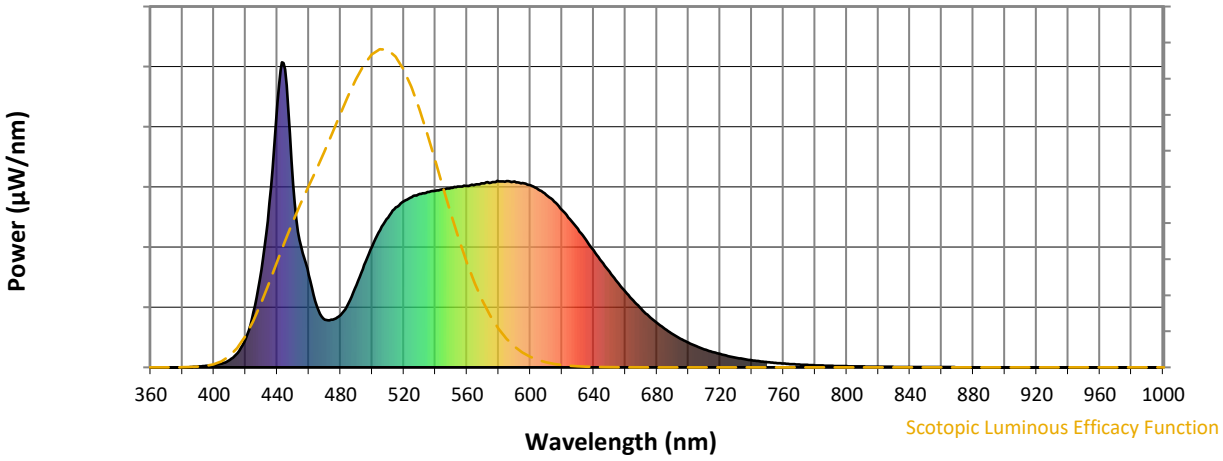



## Photopic Lumens: NR

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Scotopic Flux vs. Wavelength

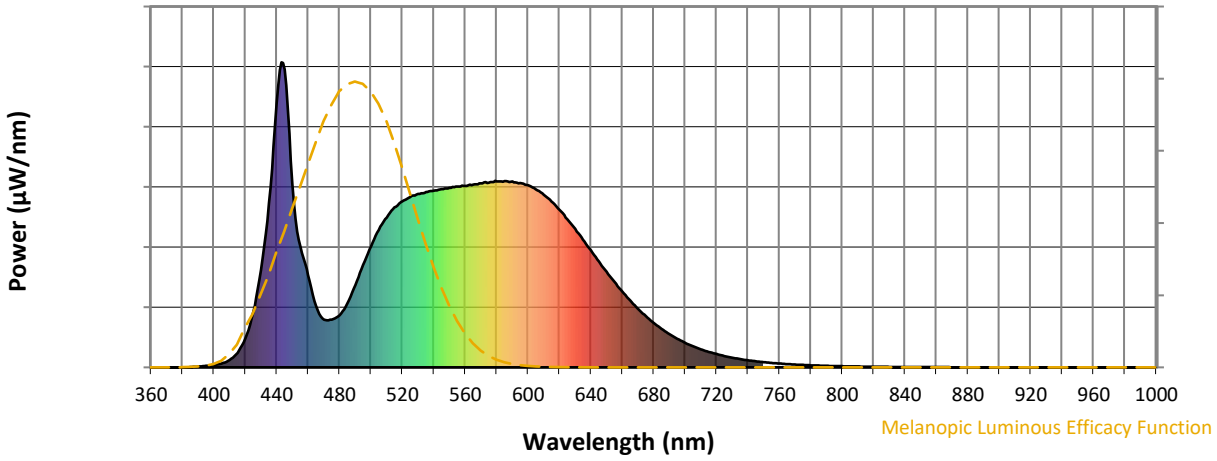



**Scotopic Lumens: NR** **S/P: 1.83**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.74**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

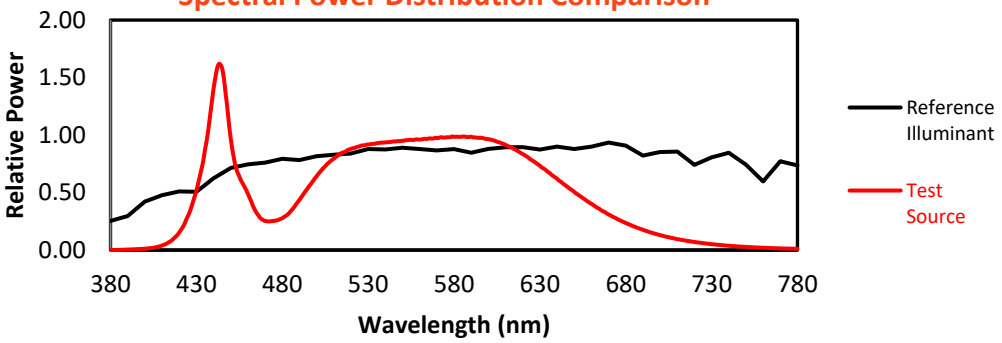
REPORT NUMBER: SP1-2407-184-12

# TM-30-18

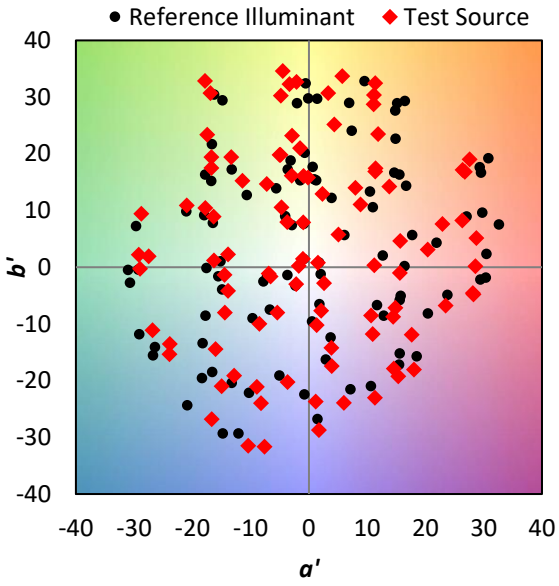
## Summary

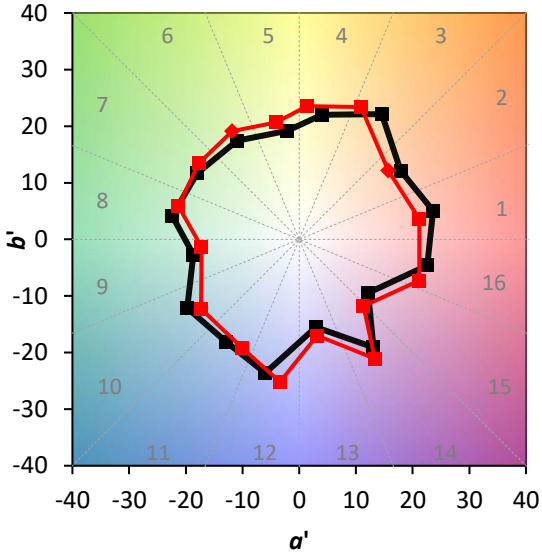
$R_f$ = 82
$R_g$ = 99.4
CIE $R_a$ = 81.1
$R_9$ = 8.7

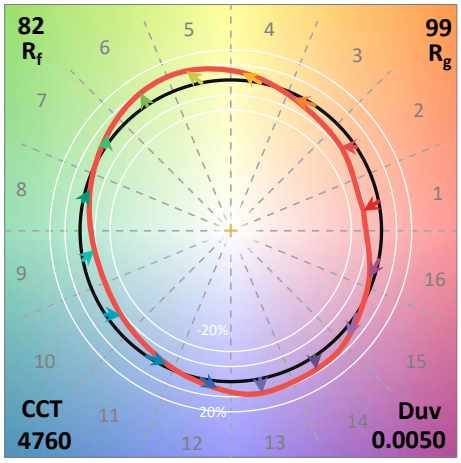
## Spectral Power Distribution Comparison

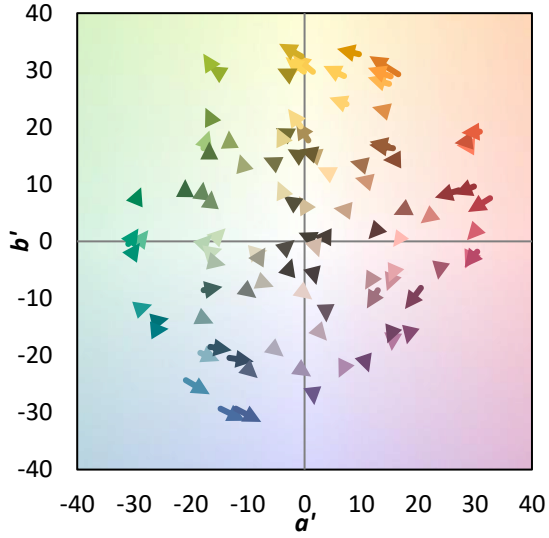



## Color Vector Graphics



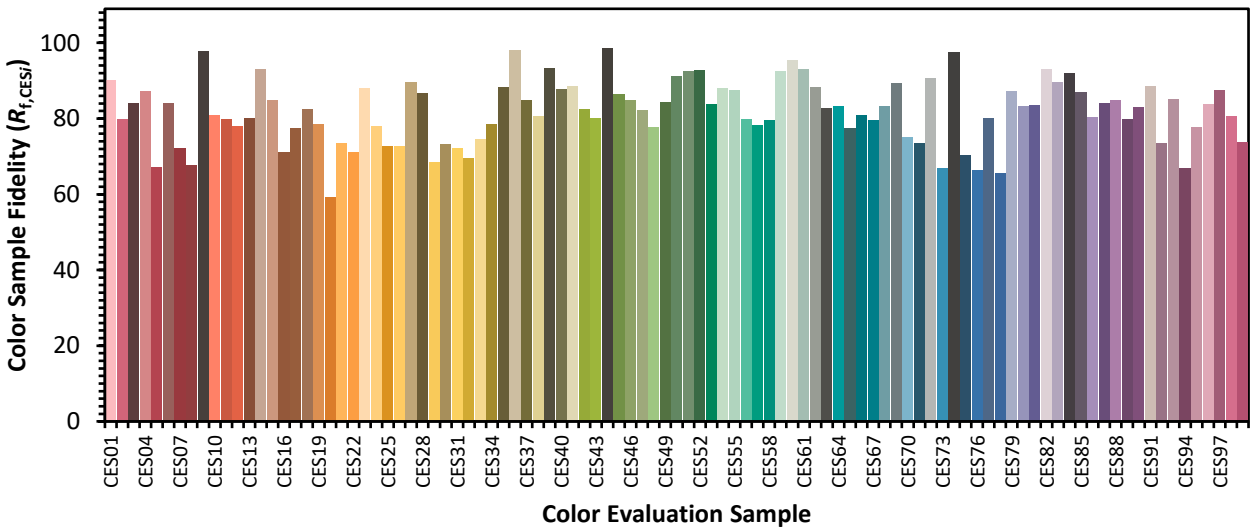



REPORT NUMBER: SP1-2407-184-12

# TM-30-18

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

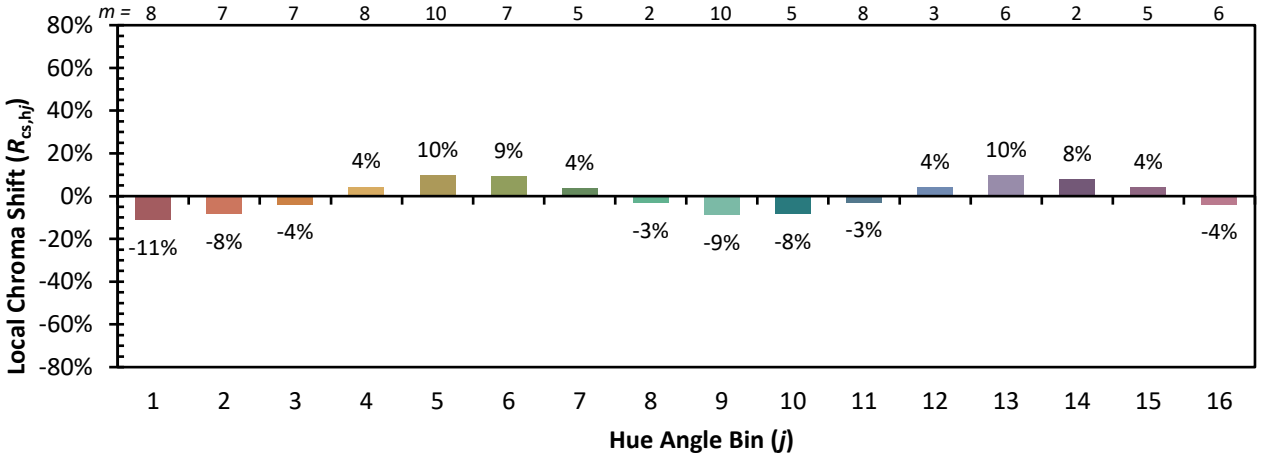
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 73 | CES51 = 92 | CES76 = 66 |
| CES02 = 60 | CES27 = 90 | CES52 = 93 | CES77 = 80 |
| CES03 = 30 | CES28 = 87 | CES53 = 84 | CES78 = 65 |
| CES04 = 69 | CES29 = 69 | CES54 = 88 | CES79 = 87 |
| CES05 = 47 | CES30 = 73 | CES55 = 88 | CES80 = 83 |
| CES06 = 50 | CES31 = 72 | CES56 = 80 | CES81 = 84 |
| CES07 = 40 | CES32 = 69 | CES57 = 78 | CES82 = 93 |
| CES08 = 39 | CES33 = 75 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 78 | CES59 = 93 | CES84 = 92 |
| CES10 = 73 | CES35 = 88 | CES60 = 95 | CES85 = 87 |
| CES11 = 56 | CES36 = 98 | CES61 = 93 | CES86 = 80 |
| CES12 = 62 | CES37 = 85 | CES62 = 88 | CES87 = 84 |
| CES13 = 42 | CES38 = 81 | CES63 = 83 | CES88 = 85 |
| CES14 = 74 | CES39 = 93 | CES64 = 83 | CES89 = 80 |
| CES15 = 71 | CES40 = 88 | CES65 = 77 | CES90 = 83 |
| CES16 = 46 | CES41 = 89 | CES66 = 81 | CES91 = 89 |
| CES17 = 48 | CES42 = 82 | CES67 = 80 | CES92 = 73 |
| CES18 = 55 | CES43 = 80 | CES68 = 83 | CES93 = 85 |
| CES19 = 70 | CES44 = 99 | CES69 = 89 | CES94 = 67 |
| CES20 = 64 | CES45 = 87 | CES70 = 75 | CES95 = 78 |
| CES21 = 85 | CES46 = 85 | CES71 = 73 | CES96 = 84 |
| CES22 = 77 | CES47 = 82 | CES72 = 91 | CES97 = 87 |
| CES23 = 91 | CES48 = 78 | CES73 = 67 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 74 |
| CES25 = 71 | CES50 = 91 | CES75 = 70 | |

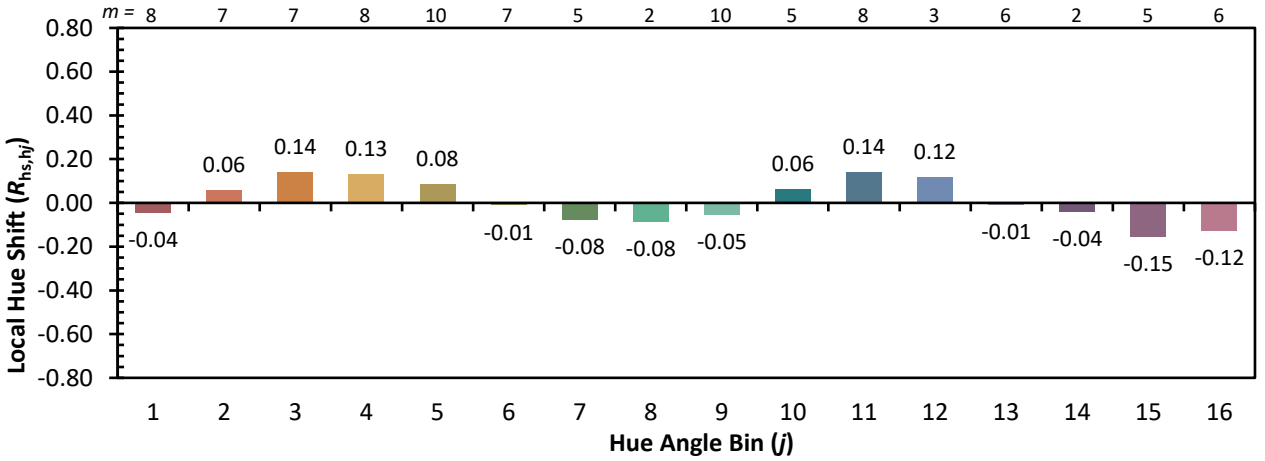


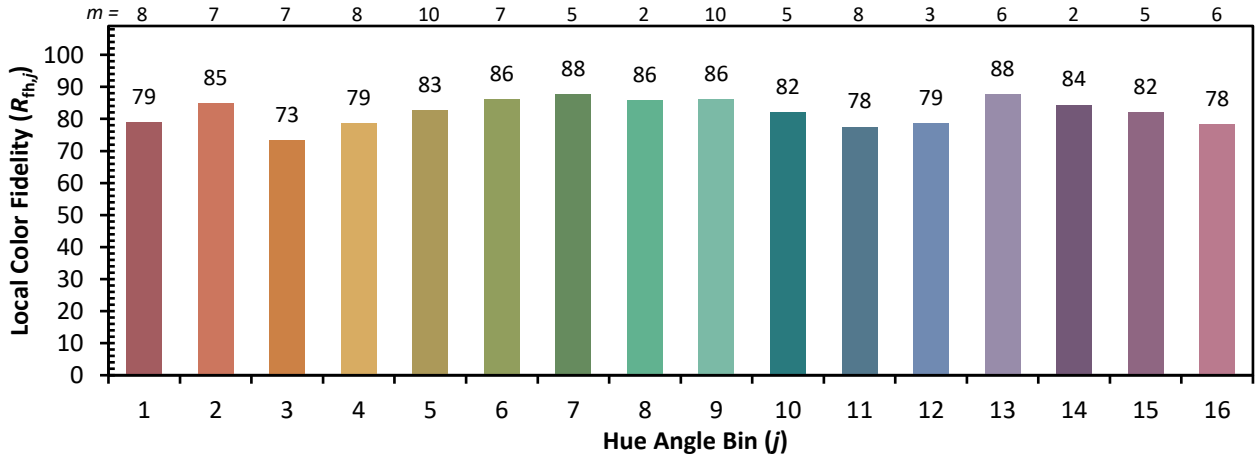
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## Color Rendition by Hue-Angle Bin



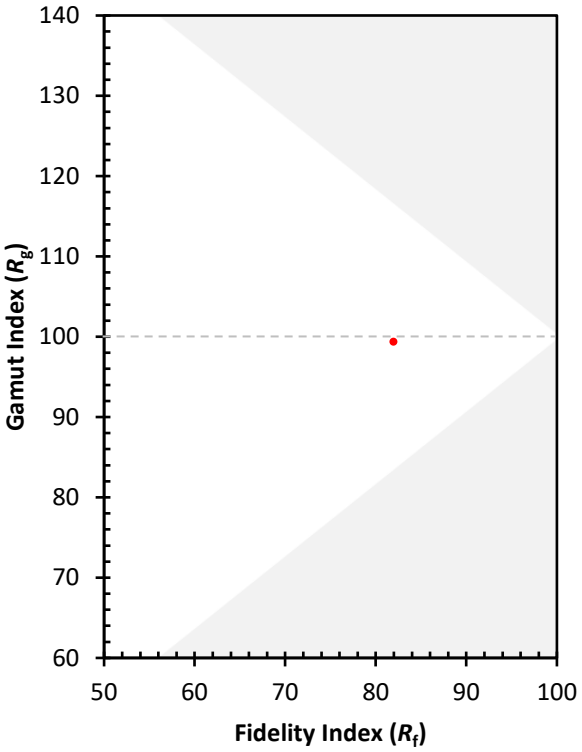



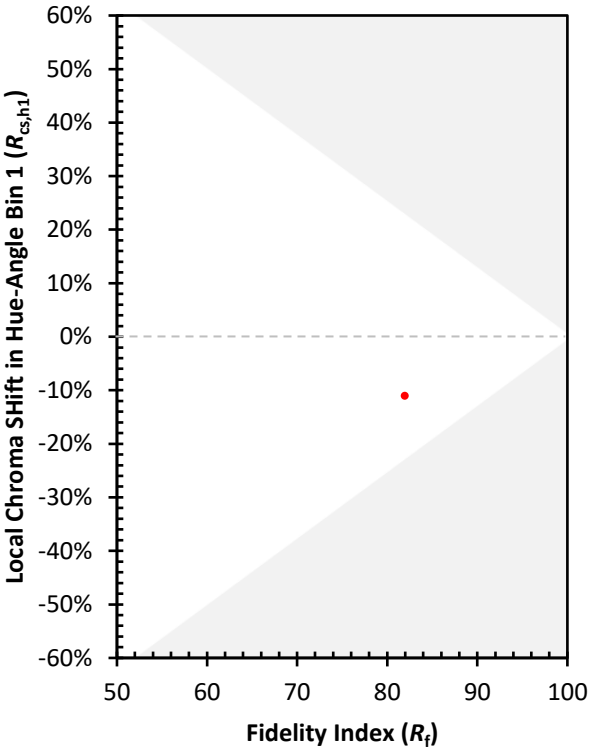



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## Measure Comparisons




(END OF REPORT)