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: STREETWORKS

Report Number: P1224033

Luminaire Tested: **FFX-CLB-80-730-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1224033 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-80-730-U-VM8-T4-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD |
| Light Source: | (6) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11113.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 135.9 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U5 - G5 |

| | |
|---|---|
| Input Watts (W): | 81.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 6.01% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

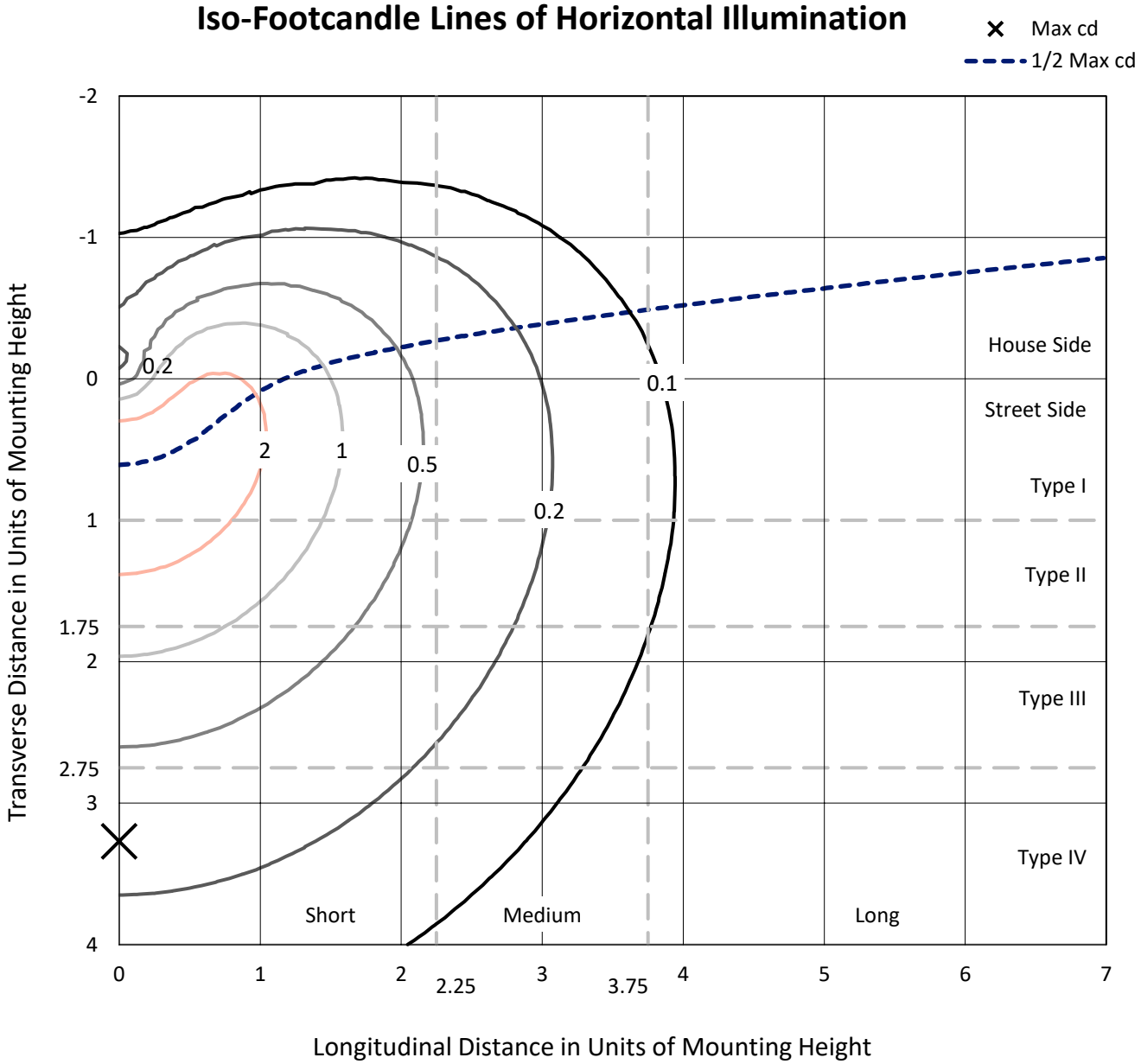


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## Iso-Footcandle Lines of Horizontal Illumination



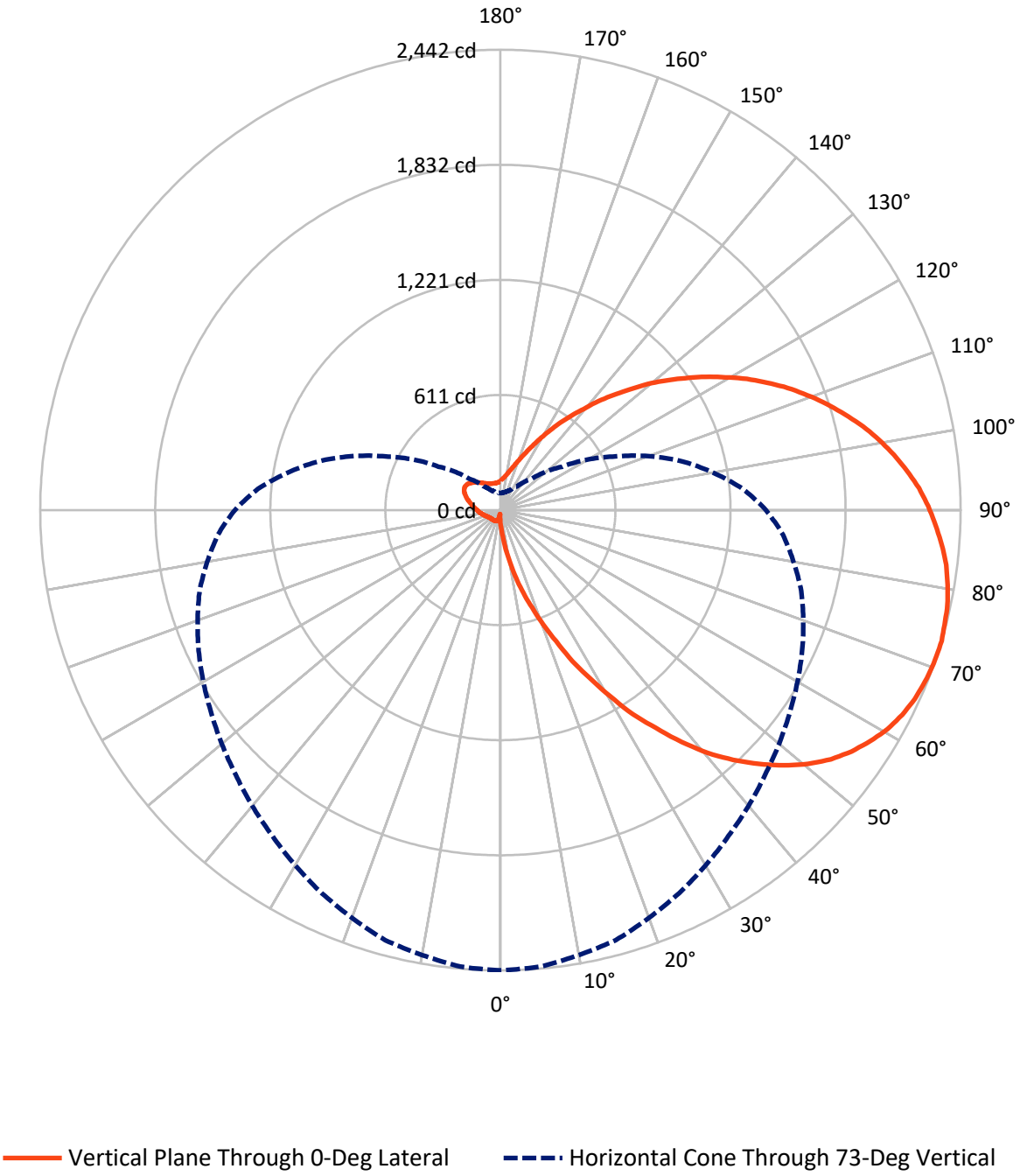

Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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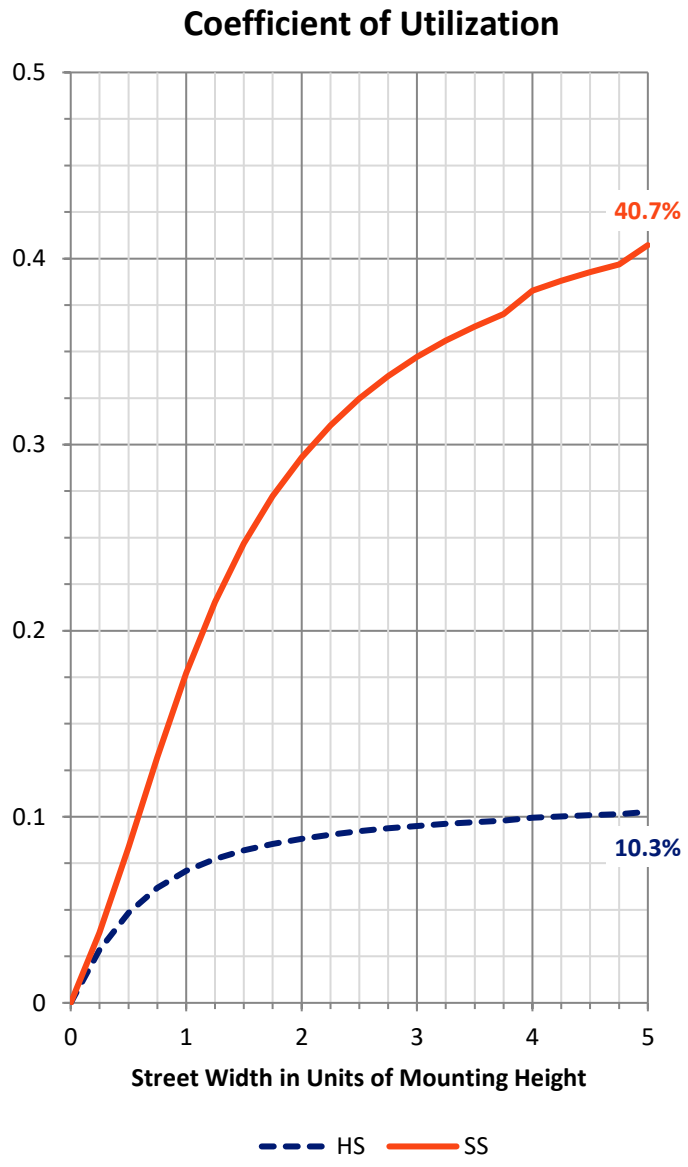
REPORT NUMBER: P1224033
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1231.0 | 1209.6 | 2440.6 |
| | % Fixture | 11.1 | 10.9 | 22.0 |
| **Street Side** | Lumens | 5190.0 | 3482.9 | 8673.0 |
| | % Fixture | 46.7 | 31.3 | 78.0 |
| **Total** | Lumens | 6421.0 | 4692.5 | 11113.6 |
| | % Fixture | 57.8 | 42.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 11.3 | 0.1 |
| 10°-20° | 78.8 | 0.7 |
| 20°-30° | 237.9 | 2.1 |
| 30°-40° | 495.6 | 4.5 |
| 40°-50° | 785.5 | 7.1 |
| 50°-60° | 1031.8 | 9.3 |
| 60°-70° | 1202.2 | 10.8 |
| 70°-80° | 1288.5 | 11.6 |
| 80°-90° | 1289.5 | 11.6 |
| 90°-100° | 1209.2 | 10.9 |
| 100°-110° | 1063.7 | 9.6 |
| 110°-120° | 878.4 | 7.9 |
| 120°-130° | 661.2 | 5.9 |
| 130°-140° | 436.3 | 3.9 |
| 140°-150° | 250.2 | 2.3 |
| 150°-160° | 124.1 | 1.1 |
| 160°-170° | 54.2 | 0.5 |
| 170°-180° | 15.2 | 0.1 |
| 0°-90° | 6421.0 | 57.8 |
| 0°-180° | 11113.6 | 100.0 |



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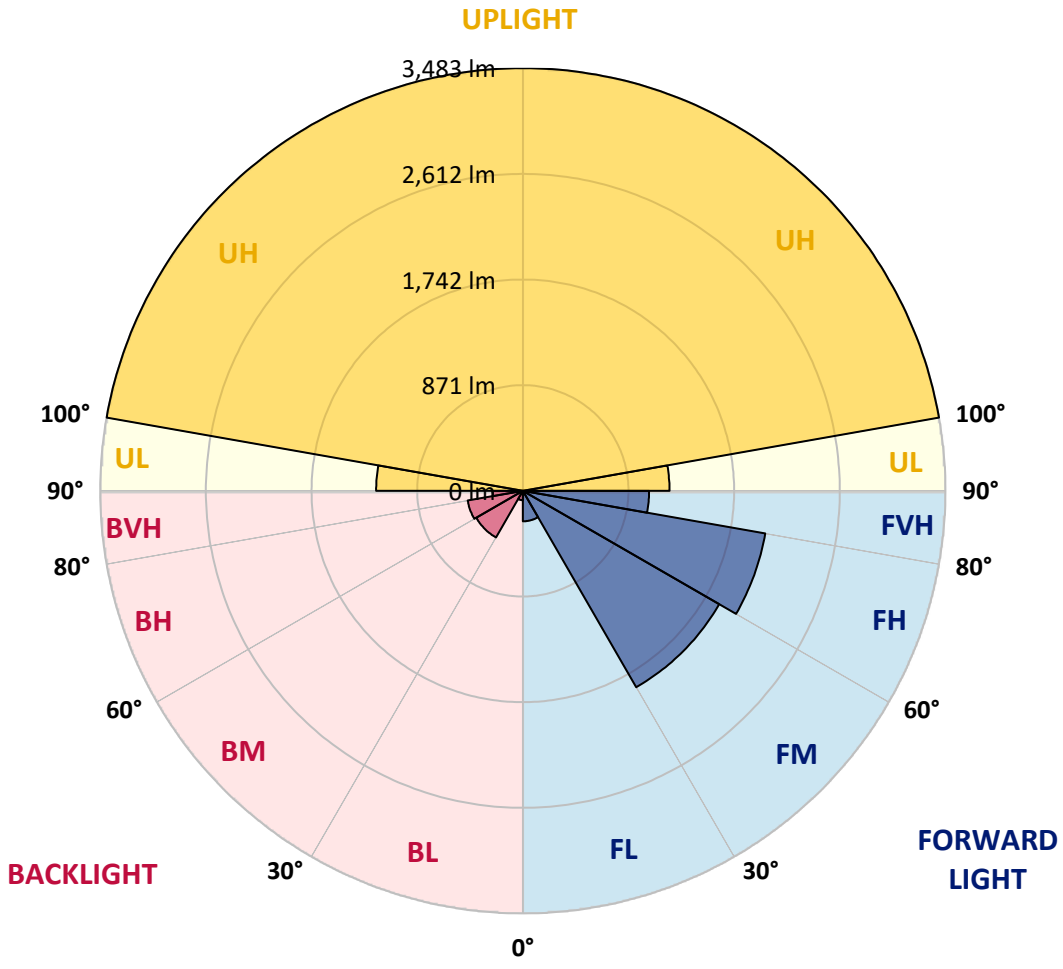
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 251.3 | 2.3 | | | |
| FM | (30°-60°) | 1869.3 | 16.8 | | | |
| FH | (60°-80°) | 2029.0 | 18.3 | | | G2/5000 |
| FVH | (80°-90°) | 1040.6 | 9.4 | | | G5 |
| BL | (0°-30°) | 76.8 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 443.6 | 4.0 | B1/1000 | | |
| BH | (60°-80°) | 461.7 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 248.9 | 2.2 | | | G3/500 |
| UL | (90°-100°) | 1209.2 | 10.9 | | U5 | |
| UH | (100°-180°) | 3483.3 | 31.3 | | U5 | |

**BUG Rating: B1-U5-G5**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | *75.2* | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 |
| 2.5° | *100.3* | 101.0 | 100.3 | 101.8 | 98.0 | 98.0 | 94.9 | 91.9 | 88.1 | 83.6 | 80.5 |
| 5° | *148.9* | 148.1 | 148.1 | 148.9 | 146.6 | 139.8 | 132.2 | 121.5 | 112.4 | 102.5 | 97.2 |
| 7.5° | *214.2* | 211.2 | 208.1 | 207.4 | 199.8 | 189.9 | 179.3 | 167.1 | 154.2 | 140.5 | 130.6 |
| 10° | *282.6* | 284.8 | 281.8 | 273.4 | 264.3 | 252.9 | 239.3 | 222.6 | 205.8 | 186.9 | 175.5 |
| 12.5° | *370.7* | 364.6 | 357.0 | 348.6 | 339.5 | 328.9 | 306.9 | 287.9 | 264.3 | 240.8 | 225.6 |
| 15° | *456.5* | 451.2 | 451.2 | 440.6 | 426.1 | 410.2 | 389.7 | 366.1 | 333.5 | 296.2 | 282.6 |
| 17.5° | *544.6* | 545.4 | 537.8 | 525.6 | 512.7 | 492.2 | 470.2 | 436.8 | 403.3 | 364.6 | 341.0 |
| 20° | *647.9* | 644.9 | 639.6 | 630.4 | 607.7 | 589.4 | 562.1 | 524.9 | 479.3 | 432.2 | 403.3 |
| 22.5° | *755.0* | 756.5 | 756.5 | 742.1 | 720.8 | 695.8 | 664.6 | 622.1 | 568.2 | 507.4 | 472.5 |
| 25° | *888.7* | 887.9 | 873.5 | 856.8 | 840.1 | 814.3 | 774.8 | 723.1 | 663.9 | 590.9 | 549.9 |
| 27.5° | *1010.2* | 1009.5 | 1006.4 | 991.2 | 966.2 | 932.8 | 886.4 | 830.2 | 762.6 | 675.3 | 626.6 |
| 30° | *1145.4* | 1148.5 | 1140.1 | 1127.2 | 1094.5 | 1060.4 | 1006.4 | 940.4 | 860.6 | 766.4 | 711.7 |
| 32.5° | *1292.0* | 1286.0 | 1279.1 | 1262.4 | 1226.7 | 1178.9 | 1118.1 | 1049.7 | 962.4 | 854.5 | 794.5 |
| 35° | *1418.9* | 1430.3 | 1419.6 | 1393.8 | 1349.8 | 1298.9 | 1232.0 | 1155.3 | 1060.4 | 944.9 | 876.5 |
| 37.5° | *1561.7* | 1559.4 | 1543.5 | 1518.4 | 1475.9 | 1411.3 | 1340.6 | 1251.8 | 1145.4 | 1025.4 | 949.5 |
| 40° | *1694.6* | 1685.5 | 1676.4 | 1639.2 | 1585.2 | 1520.7 | 1433.3 | 1342.9 | 1233.5 | 1098.3 | 1021.6 |
| 42.5° | *1812.3* | 1811.6 | 1787.3 | 1750.1 | 1682.5 | 1611.1 | 1520.7 | 1419.6 | 1305.7 | 1165.9 | 1079.4 |
| 45° | *1921.0* | 1918.7 | 1895.1 | 1839.7 | 1775.9 | 1690.1 | 1595.9 | 1491.0 | 1371.0 | 1223.7 | 1140.9 |
| 47.5° | *2023.5* | 2017.4 | 1984.8 | 1928.6 | 1848.0 | 1757.7 | 1660.4 | 1550.3 | 1426.5 | 1275.3 | 1188.7 |
| 50° | *2116.9* | 2111.6 | 2073.6 | 2002.2 | 1916.4 | 1819.9 | 1713.6 | 1599.7 | 1478.9 | 1327.0 | 1233.5 |
| 52.5° | *2196.7* | 2187.6 | 2143.5 | 2066.8 | 1968.8 | 1867.0 | 1756.1 | 1642.2 | 1519.9 | 1363.4 | 1273.0 |
| 55° | *2260.5* | 2250.6 | 2203.5 | 2117.7 | 2015.2 | 1905.0 | 1792.6 | 1679.4 | 1551.8 | 1396.1 | 1303.4 |
| 57.5° | *2313.7* | 2306.1 | 2254.4 | 2160.2 | 2050.9 | 1937.7 | 1823.7 | 1708.3 | 1581.4 | 1426.5 | 1330.0 |
| 60° | *2360.0* | 2350.9 | 2292.4 | 2195.2 | 2079.7 | 1962.7 | 1846.5 | 1731.1 | 1606.5 | 1450.0 | 1354.3 |
| 62.5° | *2392.7* | 2385.8 | 2324.3 | 2220.2 | 2100.2 | 1981.7 | 1861.7 | 1750.1 | 1625.5 | 1471.3 | 1372.6 |
| 65° | *2416.2* | 2407.9 | 2345.6 | 2235.4 | 2113.1 | 1990.8 | 1873.1 | 1758.4 | 1637.6 | 1484.2 | 1386.2 |
| 67.5° | *2429.9* | 2423.8 | 2358.5 | 2246.1 | 2118.5 | 1995.4 | 1878.4 | 1766.8 | 1647.5 | 1494.8 | 1396.9 |
| 70° | *2439.0* | 2429.9 | 2363.8 | 2248.3 | 2116.9 | 1994.6 | 1878.4 | 1767.5 | 1652.8 | 1502.4 | 1402.9 |
| 72.5° | *2441.3* | 2431.4 | 2363.0 | 2244.5 | 2112.4 | 1987.0 | 1874.6 | 1768.3 | 1654.4 | 1506.2 | 1409.0 |
| 73° | *2442.0* | *2431.4* | *2362.3* | *2243.0* | *2110.1* | *1986.3* | *1873.9* | *1766.8* | *1652.8* | *1505.5* | *1409.0* |
| 75° | *2433.7* | 2426.8 | 2356.2 | 2233.9 | 2102.5 | 1978.7 | 1868.6 | 1763.0 | 1652.8 | 1506.2 | 1408.3 |
| 77.5° | *2425.3* | 2414.7 | 2341.0 | 2221.0 | 2085.0 | 1965.0 | 1857.2 | 1755.4 | 1647.5 | 1504.7 | 1407.5 |
| 80° | *2405.6* | 2394.9 | 2321.3 | 2196.7 | 2063.0 | 1945.3 | 1841.2 | 1743.2 | 1637.6 | 1496.4 | 1401.4 |
| 82.5° | *2382.8* | 2370.6 | 2293.9 | 2168.6 | 2036.4 | 1920.2 | 1820.7 | 1727.3 | 1624.7 | 1486.5 | 1392.3 |
| 85° | *2349.4* | 2340.2 | 2262.0 | 2134.4 | 2006.0 | 1894.4 | 1797.2 | 1708.3 | 1608.0 | 1471.3 | 1378.6 |
| 87.5° | *2310.6* | 2303.0 | 2221.8 | 2095.7 | 1967.3 | 1861.0 | 1769.8 | 1683.2 | 1589.0 | 1454.6 | 1363.4 |
| 90° | *2270.4* | 2261.3 | 2180.0 | 2051.6 | 1929.3 | 1824.5 | 1737.9 | 1656.6 | 1565.5 | 1434.1 | 1343.7 |
| 92.5° | *2224.0* | 2213.4 | 2131.4 | 2006.8 | 1887.5 | 1787.3 | 1706.8 | 1627.0 | 1538.9 | 1410.5 | 1323.2 |
| 95° | *2167.8* | 2158.0 | 2076.7 | 1952.1 | 1835.1 | 1744.0 | 1665.7 | 1592.1 | 1507.8 | 1382.4 | 1298.1 |
| 97.5° | *2107.8* | 2098.7 | 2016.7 | 1897.4 | 1784.2 | 1694.6 | 1621.7 | 1554.8 | 1474.3 | 1355.1 | 1270.0 |
| 100° | *2043.3* | 2031.1 | 1949.8 | 1835.1 | 1723.5 | 1642.2 | 1576.9 | 1516.9 | 1437.9 | 1320.9 | 1239.6 |
| 102.5° | *1974.9* | 1963.5 | 1886.0 | 1773.6 | 1668.8 | 1589.8 | 1530.5 | 1472.1 | 1399.9 | 1289.8 | 1210.0 |
| 105° | *1897.4* | 1891.3 | 1813.1 | 1704.5 | 1606.5 | 1533.6 | 1478.1 | 1427.2 | 1358.9 | 1251.8 | 1178.9 |
| 107.5° | *1820.7* | 1808.5 | 1735.6 | 1631.6 | 1539.7 | 1473.6 | 1425.7 | 1378.6 | 1316.3 | 1213.8 | 1144.7 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *1739.4* | 1727.3 | 1661.9 | 1562.4 | 1477.4 | 1414.3 | 1370.3 | 1328.5 | 1272.3 | 1176.6 | 1111.3 |
| 112.5° | *1657.4* | 1643.7 | 1579.2 | 1488.0 | 1405.2 | 1353.6 | 1313.3 | 1278.4 | 1227.5 | 1139.4 | 1074.8 |
| 115° | *1568.5* | 1563.2 | 1500.2 | 1412.8 | 1339.9 | 1291.3 | 1256.3 | 1224.4 | 1176.6 | 1099.1 | 1039.9 |
| 117.5° | *1481.2* | 1471.3 | 1416.6 | 1336.1 | 1268.5 | 1222.9 | 1196.3 | 1168.2 | 1124.9 | 1052.0 | 1000.4 |
| 120° | *1387.0* | 1384.7 | 1332.3 | 1257.1 | 1194.1 | 1158.4 | 1132.5 | 1109.0 | 1071.0 | 1004.9 | 956.3 |
| 122.5° | *1298.1* | 1293.6 | 1243.4 | 1175.8 | 1123.4 | 1090.0 | 1069.5 | 1049.0 | 1016.3 | 954.8 | 909.2 |
| 125° | *1203.9* | 1198.6 | 1159.1 | 1103.7 | 1053.5 | 1021.6 | 1001.9 | 985.9 | 956.3 | 900.9 | 858.3 |
| 127.5° | *1116.6* | 1111.3 | 1075.6 | 1022.4 | 982.9 | 954.0 | 935.8 | 921.4 | 891.7 | 843.9 | 806.7 |
| 130° | *1030.0* | 1020.9 | 989.7 | 947.2 | 907.7 | 887.9 | 869.7 | 859.1 | 828.7 | 783.9 | 751.2 |
| 132.5° | *937.3* | 932.8 | 910.7 | 871.2 | 839.3 | 818.8 | 802.9 | 789.2 | 765.7 | 724.6 | 695.0 |
| 135° | *855.3* | 850.7 | 830.2 | 796.8 | 774.8 | 755.8 | 741.3 | 726.9 | 702.6 | 663.1 | 638.0 |
| 137.5° | *777.0* | 773.2 | 755.0 | 732.2 | 704.1 | 692.7 | 682.9 | 665.4 | 644.1 | 608.4 | 585.6 |
| 140° | *695.0* | 696.5 | 682.1 | 661.6 | 644.1 | 630.4 | 620.6 | 606.1 | 584.9 | 554.5 | 531.7 |
| 142.5° | *627.4* | 629.7 | 612.2 | 597.8 | 581.8 | 571.2 | 561.3 | 549.2 | 528.7 | 501.3 | 483.8 |
| 145° | *563.6* | 558.3 | 551.5 | 537.8 | 522.6 | 515.8 | 505.9 | 495.2 | 479.3 | 451.9 | 437.5 |
| 147.5° | *499.0* | 497.5 | 490.7 | 481.6 | 469.4 | 458.8 | 451.2 | 445.1 | 429.2 | 406.4 | 393.5 |
| 150° | *440.6* | 439.0 | 435.2 | 428.4 | 417.8 | 410.9 | 404.9 | 396.5 | 381.3 | 363.8 | 352.4 |
| 152.5° | *388.9* | 388.9 | 386.6 | 377.5 | 373.0 | 365.4 | 357.8 | 353.2 | 338.0 | 323.6 | 313.7 |
| 155° | *344.1* | 344.1 | 341.0 | 336.5 | 328.1 | 323.6 | 319.0 | 312.2 | 301.6 | 290.2 | 281.0 |
| 157.5° | *305.3* | 306.1 | 302.3 | 298.5 | 292.4 | 288.6 | 284.1 | 277.2 | 270.4 | 259.8 | 252.9 |
| 160° | *271.2* | 271.9 | 270.4 | 267.4 | 261.3 | 257.5 | 253.7 | 248.4 | 242.3 | 233.9 | 227.9 |
| 162.5° | *243.8* | 243.1 | 241.5 | 238.5 | 234.7 | 232.4 | 227.9 | 224.1 | 218.8 | 212.7 | 207.4 |
| 165° | *222.6* | 220.3 | 219.5 | 217.2 | 213.4 | 211.2 | 207.4 | 204.3 | 200.5 | 194.5 | 192.2 |
| 167.5° | *203.6* | 203.6 | 202.0 | 200.5 | 197.5 | 194.5 | 191.4 | 189.1 | 186.1 | 182.3 | 179.3 |
| 170° | *188.4* | 188.4 | 186.9 | 185.3 | 182.3 | 180.8 | 178.5 | 176.2 | 173.9 | 170.9 | 169.4 |
| 172.5° | *176.2* | 176.2 | 175.5 | 173.2 | 171.7 | 169.4 | 168.6 | 166.3 | 164.1 | 162.5 | 161.0 |
| 175° | *167.1* | 167.1 | 165.6 | 164.1 | 162.5 | 161.0 | 159.5 | 158.8 | 158.0 | 156.5 | 155.7 |
| 177.5° | *160.3* | 159.5 | 158.8 | 157.2 | 155.7 | 155.0 | 154.2 | 153.4 | 153.4 | 152.7 | 151.9 |
| 180° | *151.2* | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 |
| 2.5° | 77.5 | 70.6 | 63.0 | 56.2 | 52.4 | 47.1 | 44.1 | 42.5 | 44.1 | 41.8 |
| 5° | 91.9 | 79.8 | 67.6 | 58.5 | 48.6 | 41.0 | 34.2 | 27.3 | 22.8 | 22.0 |
| 7.5° | 122.3 | 108.6 | 91.9 | 76.7 | 63.0 | 50.9 | 40.3 | 31.9 | 25.8 | 25.1 |
| 10° | 161.8 | 141.3 | 120.0 | 98.7 | 79.0 | 63.0 | 50.1 | 41.0 | 38.0 | 37.2 |
| 12.5° | 211.2 | 181.5 | 151.9 | 123.8 | 99.5 | 78.2 | 63.8 | 53.9 | 49.4 | 48.6 |
| 15° | 262.8 | 225.6 | 187.6 | 151.2 | 118.5 | 92.7 | 74.4 | 63.8 | 58.5 | 57.7 |
| 17.5° | 318.3 | 269.6 | 218.0 | 175.5 | 136.7 | 105.6 | 82.8 | 68.4 | 62.3 | 60.8 |
| 20° | 374.5 | 313.7 | 254.5 | 199.0 | 151.9 | 113.9 | 87.4 | 70.6 | 63.0 | 61.5 |
| 22.5° | 437.5 | 364.6 | 290.9 | 221.8 | 165.6 | 122.3 | 91.1 | 72.2 | 63.8 | 62.3 |
| 25° | 508.9 | 416.2 | 328.9 | 248.4 | 180.8 | 129.9 | 94.9 | 74.4 | 64.6 | 63.0 |
| 27.5° | 581.8 | 474.0 | 367.6 | 271.9 | 193.7 | 135.2 | 98.0 | 75.2 | 65.3 | 63.8 |
| 30° | 655.5 | 531.7 | 407.1 | 294.7 | 205.1 | 141.3 | 99.5 | 76.0 | 65.3 | 64.6 |
| 32.5° | 732.2 | 585.6 | 445.1 | 316.0 | 215.0 | 145.1 | 101.0 | 76.7 | 66.1 | 64.6 |
| 35° | 801.4 | 642.6 | 480.8 | 336.5 | 224.1 | 148.1 | 101.8 | 76.7 | 66.1 | 64.6 |
| 37.5° | 867.4 | 691.2 | 513.5 | 353.2 | 230.9 | 150.4 | 102.5 | 76.7 | 66.1 | 64.6 |
| 40° | 936.6 | 742.9 | 543.1 | 368.4 | 236.2 | 151.9 | 102.5 | 76.7 | 66.1 | 65.3 |
| 42.5° | 992.8 | 786.2 | 568.2 | 379.0 | 240.0 | 151.9 | 102.5 | 76.7 | 66.8 | 65.3 |
| 45° | 1043.7 | 821.9 | 592.5 | 388.9 | 242.3 | 151.9 | 101.8 | 77.5 | 66.8 | 66.1 |
| 47.5° | 1087.7 | 857.6 | 610.7 | 395.7 | 243.1 | 151.9 | 101.8 | 77.5 | 67.6 | 66.8 |
| 50° | 1128.7 | 886.4 | 626.6 | 401.1 | 243.8 | 151.2 | 101.8 | 78.2 | 68.4 | 66.8 |
| 52.5° | 1163.7 | 910.0 | 639.6 | 404.1 | 242.3 | 149.6 | 101.8 | 79.0 | 69.9 | 68.4 |
| 55° | 1193.3 | 932.0 | 648.7 | 405.6 | 240.8 | 148.9 | 101.8 | 79.8 | 70.6 | 69.9 |
| 57.5° | 1217.6 | 949.5 | 657.0 | 406.4 | 239.3 | 148.1 | 102.5 | 81.3 | 72.9 | 72.2 |
| 60° | 1239.6 | 963.9 | 663.1 | 406.4 | 237.7 | 147.4 | 103.3 | 82.8 | 74.4 | 73.7 |
| 62.5° | 1257.1 | 975.3 | 667.7 | 405.6 | 237.0 | 147.4 | 104.8 | 85.1 | 76.7 | 76.0 |
| 65° | 1269.2 | 983.6 | 669.9 | 404.1 | 235.5 | 148.1 | 106.3 | 87.4 | 79.8 | 79.0 |
| 67.5° | 1280.6 | 991.2 | 671.5 | 403.3 | 234.7 | 148.9 | 108.6 | 90.4 | 82.8 | 82.0 |
| 70° | 1287.5 | 995.8 | 672.2 | 402.6 | 233.9 | 150.4 | 110.9 | 93.4 | 86.6 | 85.8 |
| 72.5° | 1290.5 | 998.8 | 673.0 | 401.1 | 234.7 | 151.9 | 113.9 | 96.5 | 90.4 | 89.6 |
| 73° | *1291.3* | *998.8* | *672.2* | *401.1* | *234.7* | *152.7* | *114.7* | *98.0* | *91.1* | *90.4* |
| 75° | 1292.8 | 998.8 | 671.5 | 400.3 | 235.5 | 154.2 | 117.0 | 101.0 | 94.2 | 94.2 |
| 77.5° | 1290.5 | 997.3 | 669.9 | 399.5 | 236.2 | 157.2 | 120.8 | 104.8 | 98.7 | 98.0 |
| 80° | 1286.0 | 993.5 | 667.7 | 399.5 | 237.7 | 160.3 | 125.3 | 109.4 | 103.3 | 102.5 |
| 82.5° | 1276.1 | 986.7 | 664.6 | 398.8 | 240.0 | 164.1 | 129.9 | 113.9 | 108.6 | 107.9 |
| 85° | 1266.2 | 978.3 | 660.1 | 398.8 | 243.1 | 168.6 | 134.4 | 119.3 | 113.9 | 113.2 |
| 87.5° | 1251.0 | 968.5 | 655.5 | 398.0 | 246.1 | 172.4 | 139.0 | 124.6 | 118.5 | 118.5 |
| 90° | 1233.5 | 957.8 | 651.0 | 398.8 | 249.1 | 177.7 | 145.1 | 130.6 | 124.6 | 123.8 |
| 92.5° | 1216.1 | 945.7 | 645.6 | 400.3 | 254.5 | 183.1 | 151.2 | 136.7 | 130.6 | 129.1 |
| 95° | 1192.5 | 929.0 | 639.6 | 401.1 | 259.0 | 189.1 | 157.2 | 142.8 | 136.7 | 136.7 |
| 97.5° | 1168.2 | 913.8 | 632.7 | 403.3 | 265.1 | 196.7 | 165.6 | 150.4 | 144.3 | 144.3 |
| 100° | 1142.4 | 897.8 | 628.2 | 405.6 | 271.2 | 205.1 | 173.2 | 158.0 | 151.9 | 151.9 |
| 102.5° | 1115.1 | 880.3 | 623.6 | 410.2 | 280.3 | 213.4 | 182.3 | 167.1 | 160.3 | 160.3 |
| 105° | 1087.0 | 863.6 | 619.1 | 415.5 | 289.4 | 224.1 | 192.2 | 177.0 | 170.1 | 170.1 |
| 107.5° | 1059.6 | 847.7 | 615.3 | 422.3 | 299.3 | 234.7 | 202.0 | 186.9 | 180.0 | 178.5 |

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

Scaled Data Report

REPORT NUMBER: P1224033
CATALOG NUMBER: FFX-CLB-80-730-U-VM8-T4-HSS

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 1030.7 | 831.0 | 612.2 | 429.2 | 310.7 | 246.9 | 214.2 | 196.7 | 189.1 | 189.1 |
| 112.5° | 999.6 | 813.5 | 609.9 | 436.0 | 322.8 | 259.0 | 224.8 | 207.4 | 199.8 | 198.2 |
| 115° | 966.9 | 796.0 | 605.4 | 443.6 | 333.5 | 271.2 | 236.2 | 216.5 | 208.1 | 207.4 |
| 117.5° | 935.0 | 775.5 | 600.1 | 448.9 | 343.3 | 281.0 | 245.3 | 225.6 | 216.5 | 215.7 |
| 120° | 897.8 | 752.7 | 590.9 | 450.4 | 350.9 | 288.6 | 252.9 | 231.7 | 222.6 | 221.0 |
| 122.5° | 856.8 | 723.1 | 578.0 | 448.9 | 354.7 | 294.0 | 257.5 | 236.2 | 225.6 | 224.8 |
| 125° | 810.5 | 690.5 | 561.3 | 443.6 | 355.5 | 296.2 | 259.0 | 237.0 | 227.1 | 225.6 |
| 127.5° | 761.9 | 657.8 | 539.3 | 433.0 | 350.9 | 294.7 | 257.5 | 235.5 | 224.8 | 224.1 |
| 130° | 711.7 | 619.1 | 513.5 | 419.3 | 343.3 | 289.4 | 253.7 | 231.7 | 221.0 | 220.3 |
| 132.5° | 661.6 | 578.0 | 485.4 | 401.1 | 332.7 | 281.0 | 246.9 | 225.6 | 215.7 | 214.2 |
| 135° | 607.7 | 537.8 | 456.5 | 382.1 | 318.3 | 271.9 | 238.5 | 218.0 | 208.1 | 207.4 |
| 137.5° | 558.3 | 496.0 | 426.9 | 360.8 | 304.6 | 259.8 | 229.4 | 210.4 | 202.0 | 200.5 |
| 140° | 509.7 | 455.7 | 395.0 | 338.0 | 287.1 | 247.6 | 218.8 | 202.0 | 193.7 | 192.9 |
| 142.5° | 464.9 | 418.5 | 366.9 | 316.0 | 271.2 | 235.5 | 209.6 | 193.7 | 186.9 | 185.3 |
| 145° | 418.5 | 379.8 | 337.3 | 293.2 | 253.7 | 222.6 | 199.8 | 185.3 | 179.3 | 177.7 |
| 147.5° | 378.3 | 344.1 | 307.6 | 270.4 | 237.7 | 209.6 | 189.9 | 177.7 | 172.4 | 171.7 |
| 150° | 340.3 | 311.4 | 279.5 | 249.1 | 220.3 | 197.5 | 180.8 | 170.1 | 165.6 | 164.8 |
| 152.5° | 306.1 | 281.0 | 255.2 | 229.4 | 205.1 | 186.9 | 172.4 | 163.3 | 159.5 | 159.5 |
| 155° | 274.2 | 253.7 | 233.2 | 211.9 | 192.9 | 177.7 | 166.3 | 158.8 | 155.7 | 155.0 |
| 157.5° | 246.9 | 230.9 | 214.2 | 196.7 | 182.3 | 169.4 | 160.3 | 155.0 | 151.9 | 151.9 |
| 160° | 223.3 | 211.2 | 197.5 | 184.6 | 173.2 | 162.5 | 155.7 | 151.2 | 148.9 | 148.9 |
| 162.5° | 204.3 | 194.5 | 183.8 | 173.9 | 164.1 | 157.2 | 151.9 | 148.9 | 147.4 | 147.4 |
| 165° | 188.4 | 181.5 | 173.9 | 165.6 | 158.8 | 153.4 | 149.6 | 147.4 | 146.6 | 146.6 |
| 167.5° | 177.0 | 170.9 | 164.8 | 159.5 | 155.0 | 150.4 | 148.1 | 146.6 | 146.6 | 145.8 |
| 170° | 167.1 | 163.3 | 158.0 | 154.2 | 150.4 | 148.1 | 146.6 | 145.8 | 145.8 | 145.1 |
| 172.5° | 159.5 | 156.5 | 153.4 | 150.4 | 148.1 | 146.6 | 145.8 | 145.8 | 145.8 | 145.8 |
| 175° | 155.0 | 152.7 | 150.4 | 148.9 | 147.4 | 145.8 | 145.8 | 146.6 | 146.6 | 146.6 |
| 177.5° | 151.2 | 150.4 | 148.9 | 148.1 | 147.4 | 147.4 | 147.4 | 148.1 | 148.9 | 148.9 |
| 180° | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 | 151.2 |

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

Streetworks

Report Number: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

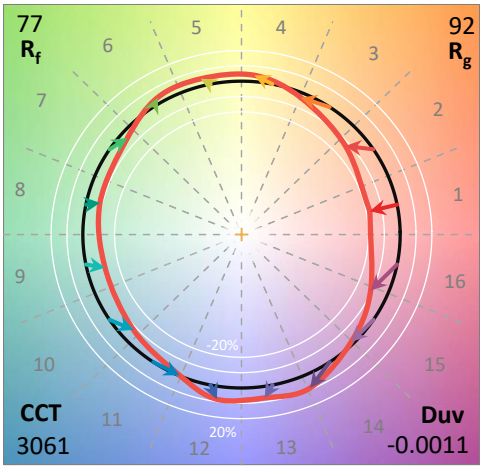
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-100-730-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3061 |
| CIE u': | 0.2489 |
| CIE v': | 0.5187 |
| Duv: | -0.0011 |
| CIE x: | 0.4312 |
| CIE y: | 0.3995 |
| CIE z: | 0.1693 |
| Peak Wavelength (nm): | 592 |
| Dominant Wavelength (nm): | 582 |
| Purity: | 49.32381 |
| Rf: | 76.8 |
| Rg: | 92.2 |

| | |
|---|---|
| CRI (Ra): | 71.7 |
| R1: | 67.8 |
| R2: | 85.0 |
| R3: | 92.9 |
| R4: | 66.0 |
| R5: | 68.5 |
| R6: | 80.2 |
| R7: | 74.5 |
| R8: | 39.0 |
| R9: | -40.3 |
| R10: | 67.2 |
| R11: | 61.6 |
| R12: | 59.9 |
| R13: | 71.4 |
| R14: | 96.3 |
| R15: | 58.8 |




## Test Conditions

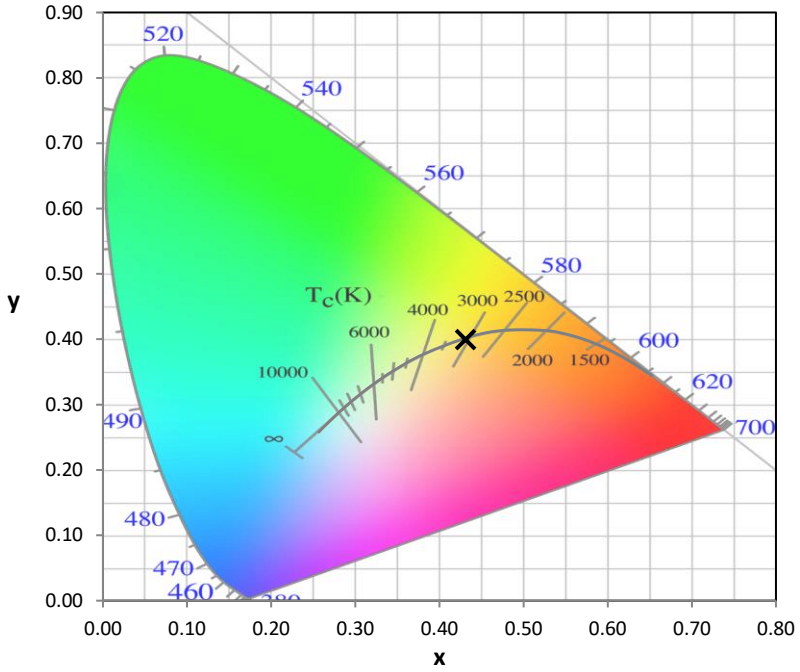
| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 1H 56M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-4

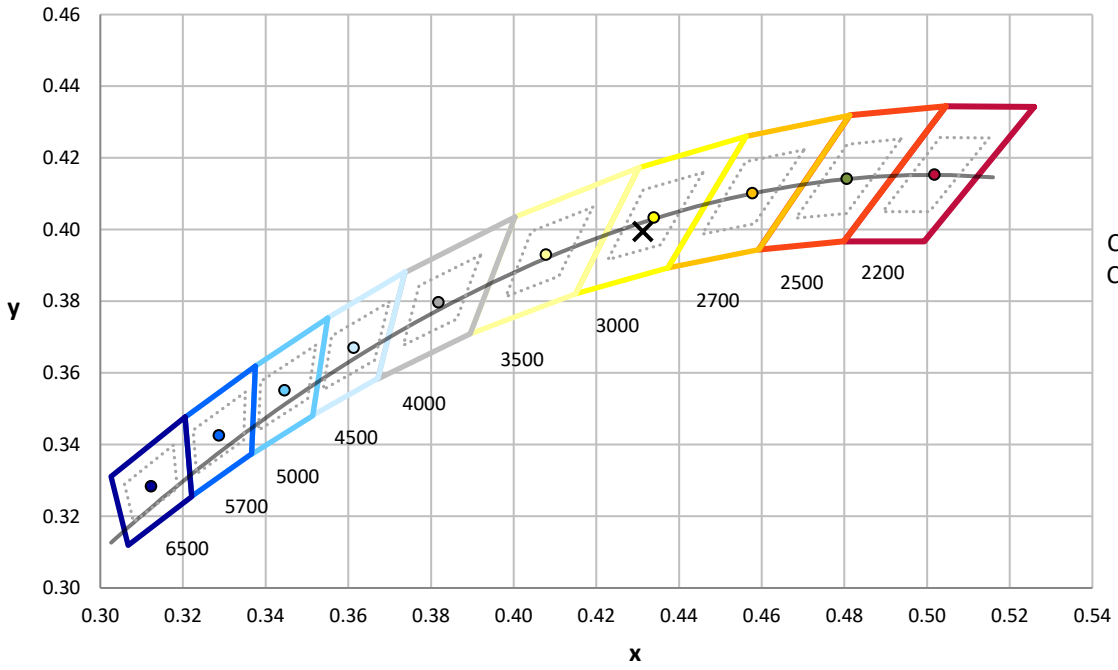
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2501-332-4

## CIE 1931 Chromaticity Diagram




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

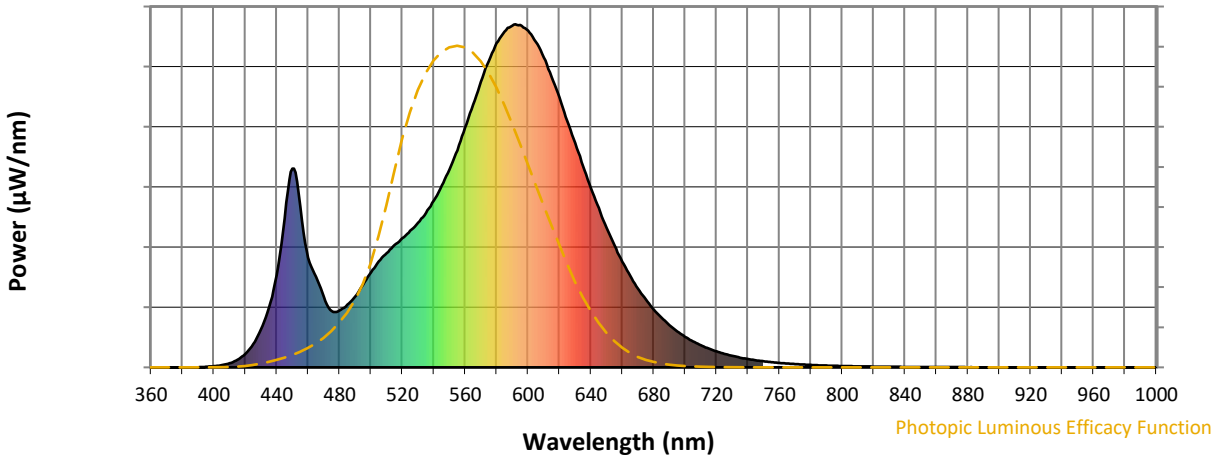



CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

## Photopic Flux vs. Wavelength

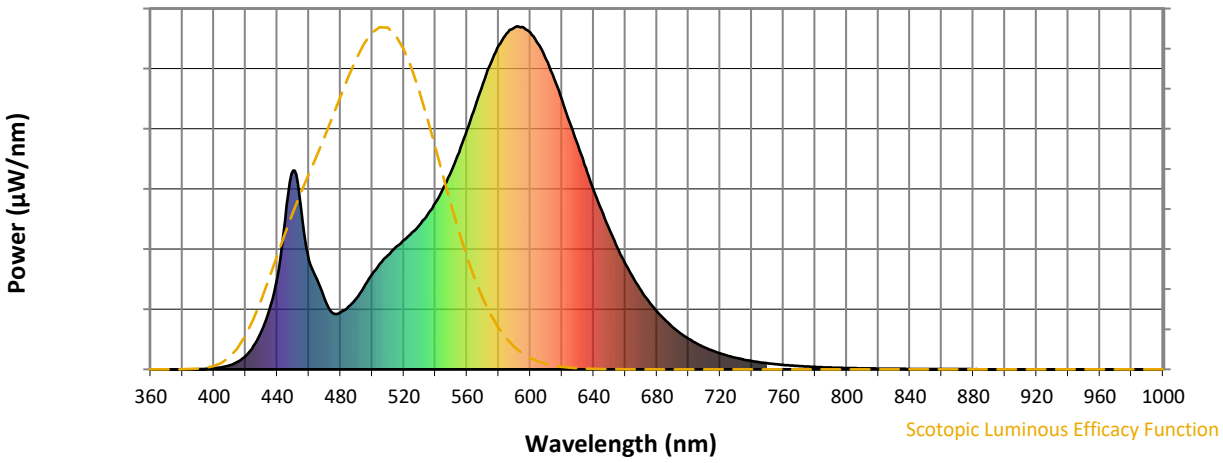



## Photopic Lumens: NR

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Scotopic Flux vs. Wavelength

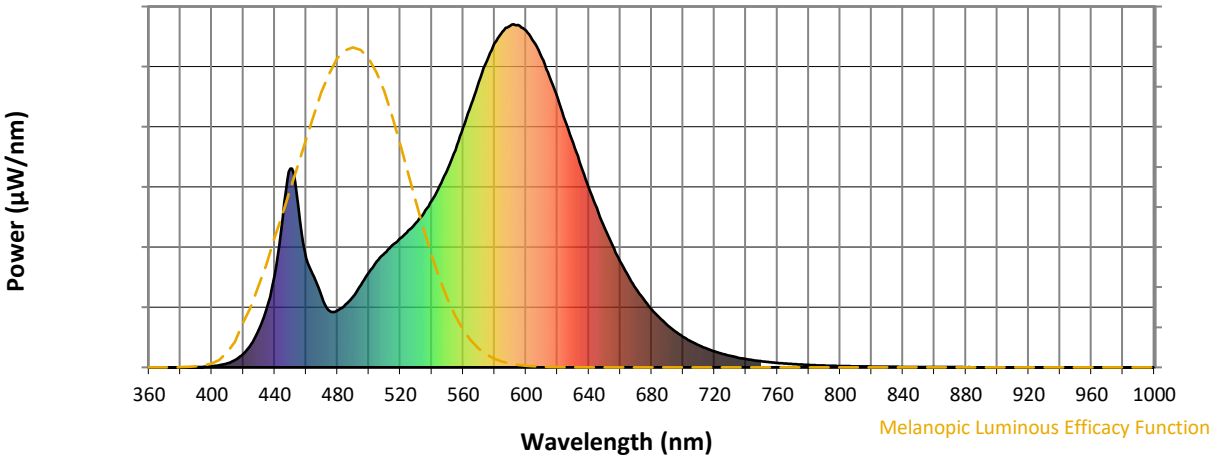



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.47**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

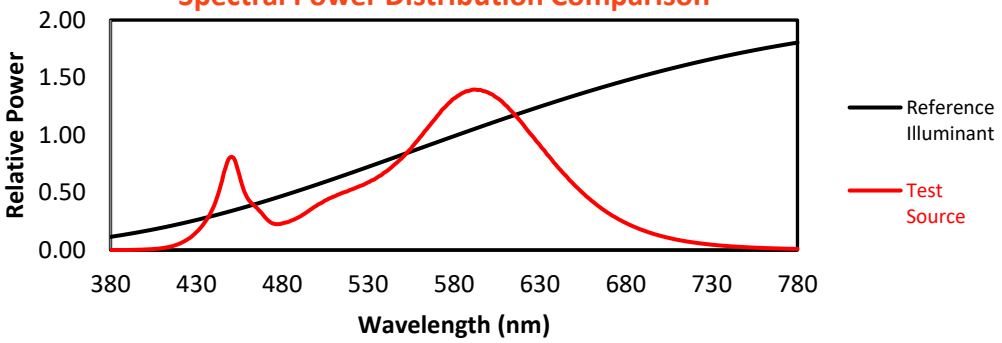
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

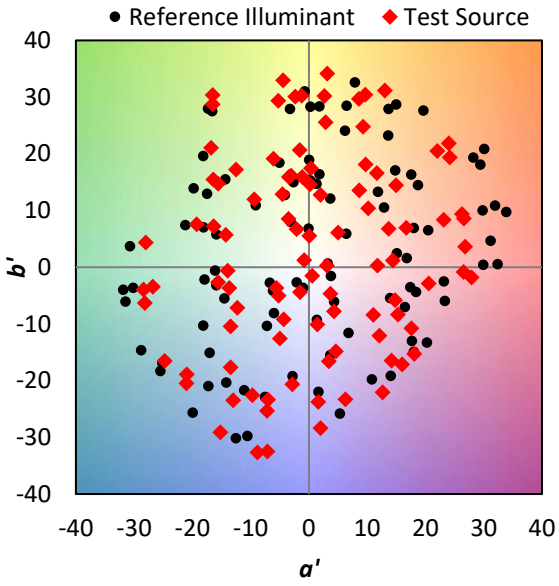
## Summary

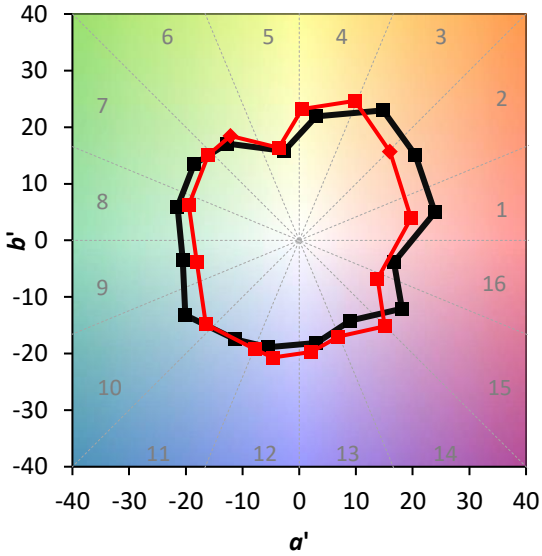
$R_f$ = 76.8
$R_g$ = 92.2
CIE $R_a$ = 71.7
$R_9$ = -40.3

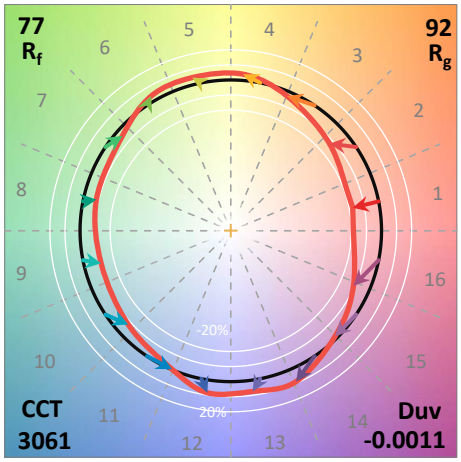
## Spectral Power Distribution Comparison

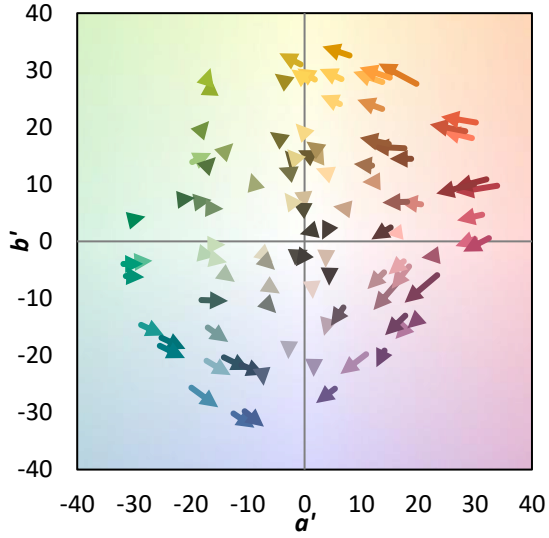



## Color Vector Graphics



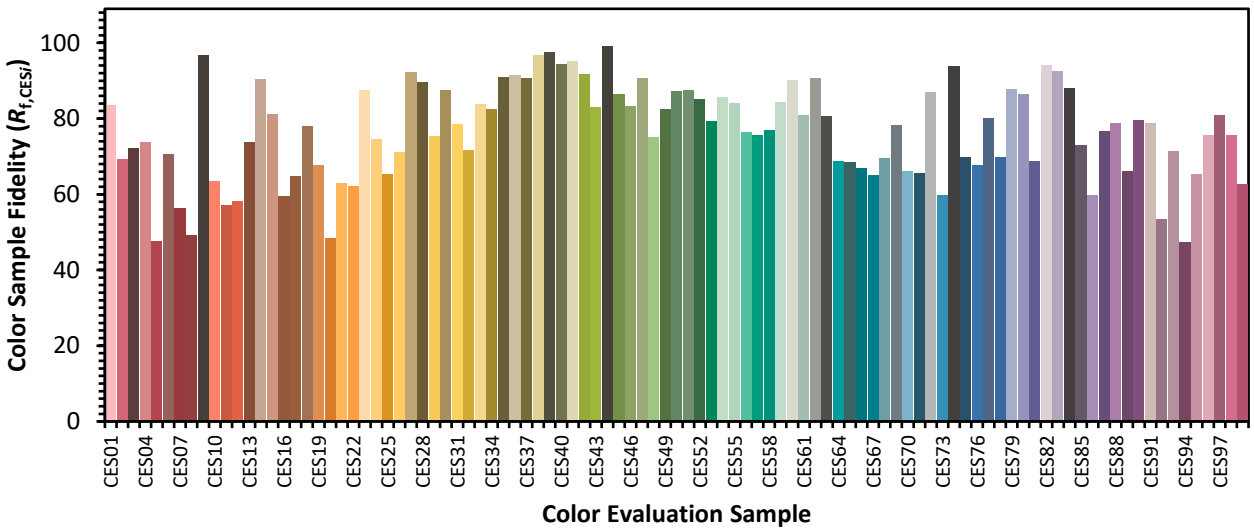



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**Individual Sample Fidelity Index ($R_{f,i}$)**

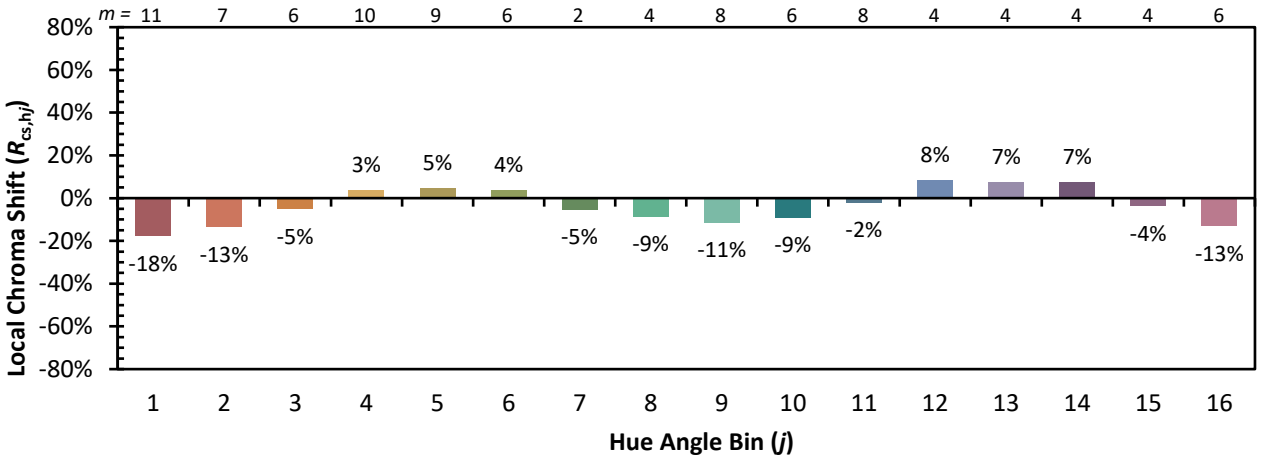
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 71 | CES51 = 88 | CES76 = 68 |
| CES02 = 62 | CES27 = 92 | CES52 = 85 | CES77 = 80 |
| CES03 = 31 | CES28 = 90 | CES53 = 79 | CES78 = 70 |
| CES04 = 71 | CES29 = 75 | CES54 = 86 | CES79 = 88 |
| CES05 = 49 | CES30 = 87 | CES55 = 84 | CES80 = 87 |
| CES06 = 51 | CES31 = 79 | CES56 = 76 | CES81 = 69 |
| CES07 = 41 | CES32 = 72 | CES57 = 76 | CES82 = 94 |
| CES08 = 40 | CES33 = 84 | CES58 = 77 | CES83 = 92 |
| CES09 = 29 | CES34 = 83 | CES59 = 84 | CES84 = 88 |
| CES10 = 76 | CES35 = 91 | CES60 = 90 | CES85 = 73 |
| CES11 = 59 | CES36 = 92 | CES61 = 81 | CES86 = 60 |
| CES12 = 65 | CES37 = 91 | CES62 = 91 | CES87 = 77 |
| CES13 = 43 | CES38 = 97 | CES63 = 81 | CES88 = 79 |
| CES14 = 74 | CES39 = 98 | CES64 = 69 | CES89 = 66 |
| CES15 = 71 | CES40 = 94 | CES65 = 69 | CES90 = 80 |
| CES16 = 47 | CES41 = 95 | CES66 = 67 | CES91 = 79 |
| CES17 = 50 | CES42 = 92 | CES67 = 65 | CES92 = 53 |
| CES18 = 56 | CES43 = 83 | CES68 = 70 | CES93 = 71 |
| CES19 = 73 | CES44 = 99 | CES69 = 78 | CES94 = 47 |
| CES20 = 66 | CES45 = 87 | CES70 = 66 | CES95 = 65 |
| CES21 = 87 | CES46 = 83 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 91 | CES72 = 87 | CES97 = 81 |
| CES23 = 92 | CES48 = 75 | CES73 = 60 | CES98 = 76 |
| CES24 = 91 | CES49 = 83 | CES74 = 94 | CES99 = 63 |
| CES25 = 73 | CES50 = 87 | CES75 = 70 | |

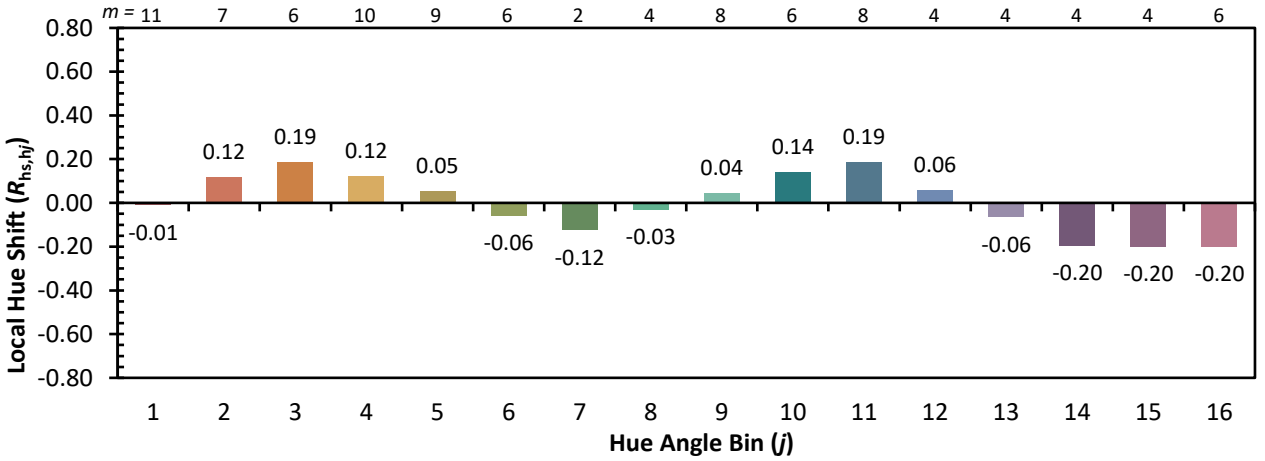


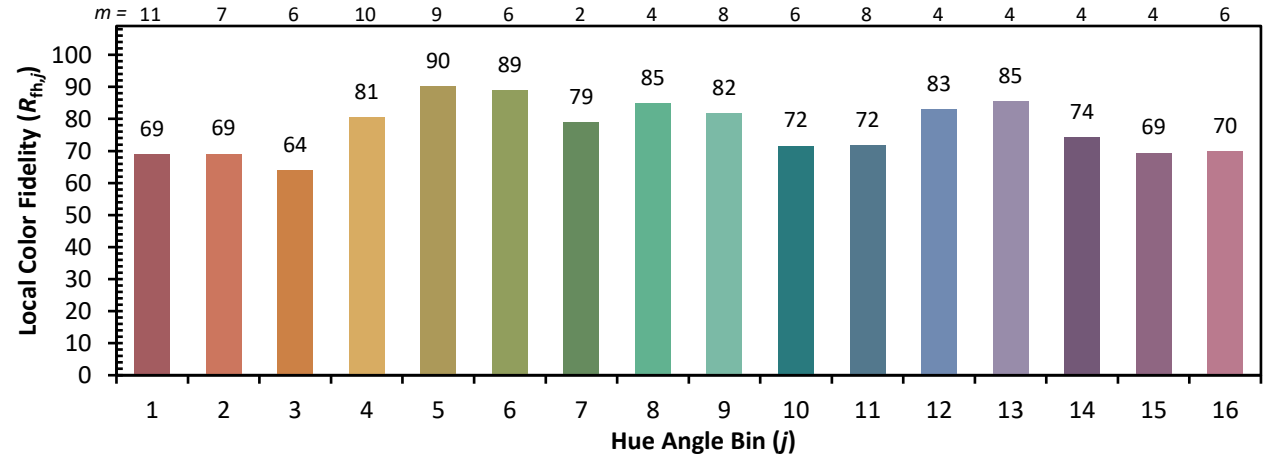
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## Color Rendition by Hue-Angle Bin



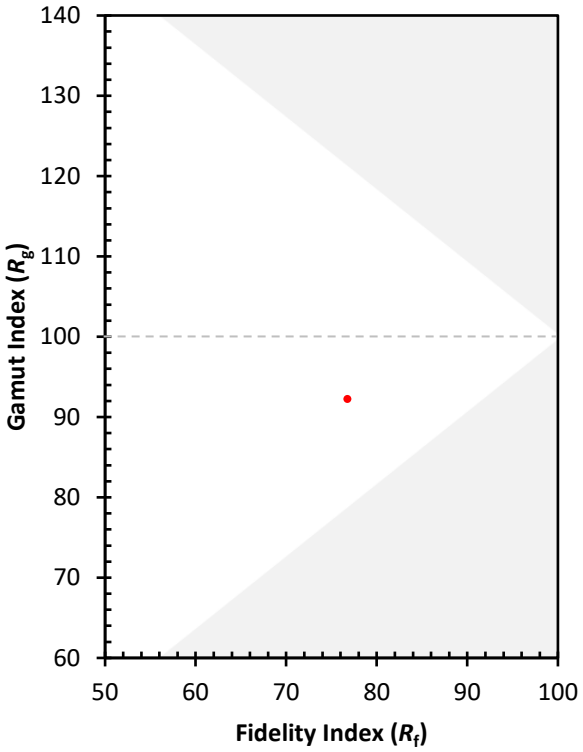



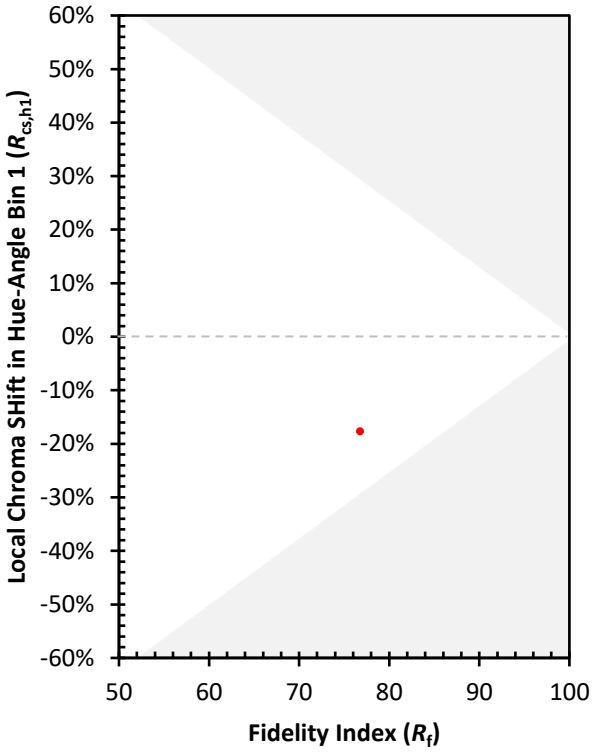



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## Measure Comparisons




(END OF REPORT)