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: P1223952

Luminaire Tested: **FFX-CLB-80-740-U-VM9-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: | P1223952 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-80-740-U-VM9-T4-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD |
| Light Source: | (6) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11698.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 143.0 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - 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 |

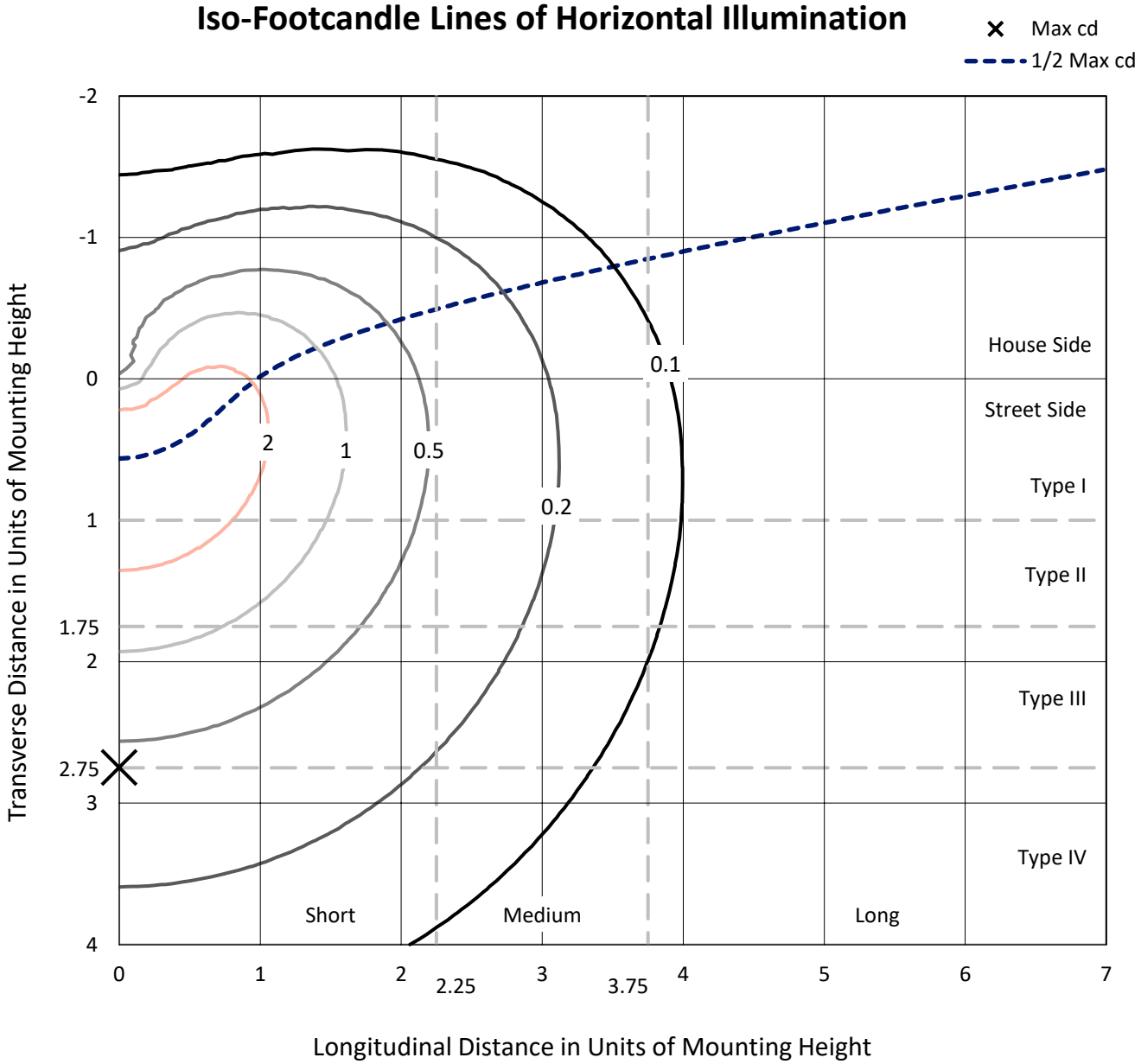


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## Iso-Footcandle Lines of Horizontal Illumination



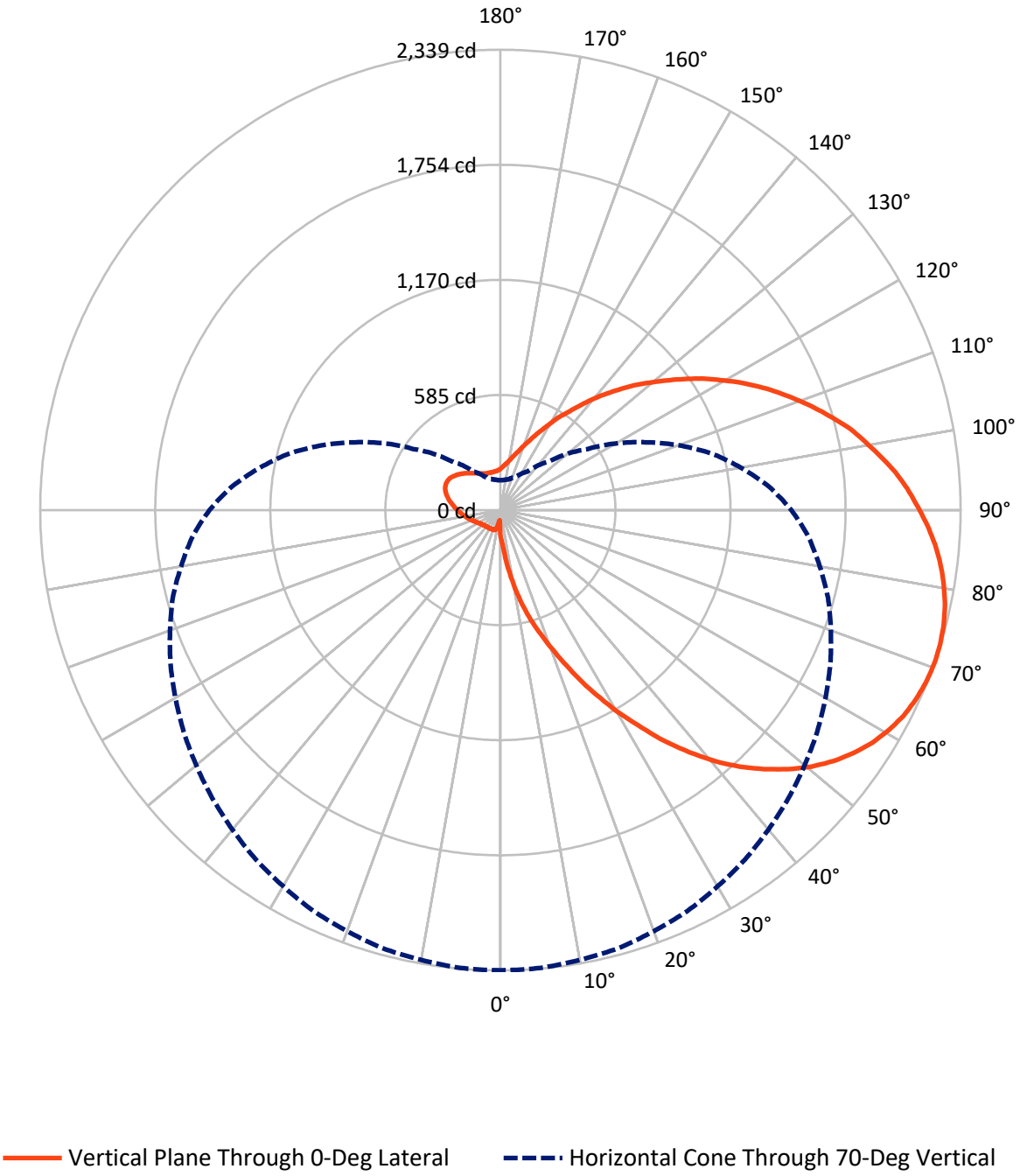

Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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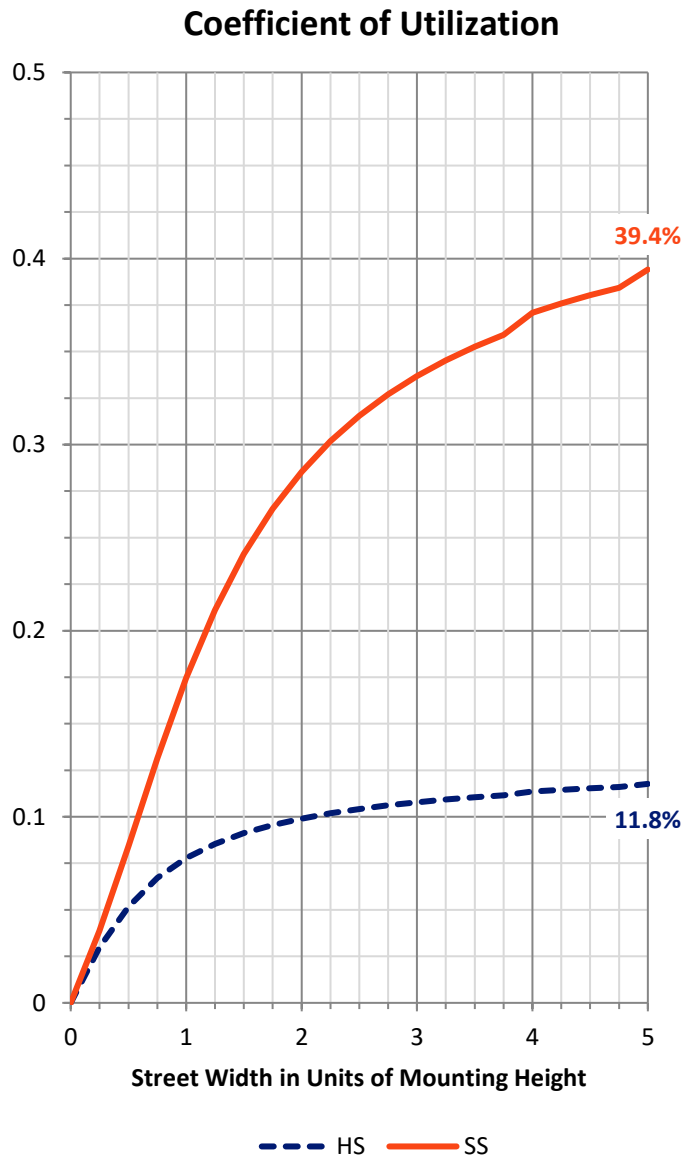
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1500.0 | 1447.2 | 2947.2 |
| | % Fixture | 12.8 | 12.4 | 25.2 |
| **Street Side** | Lumens | 5268.9 | 3481.9 | 8750.8 |
| | % Fixture | 45.0 | 29.8 | 74.8 |
| **Total** | Lumens | 6768.9 | 4929.1 | 11698.1 |
| | % Fixture | 57.9 | 42.1 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 17.6 | 0.2 |
| 10°-20° | 102.3 | 0.9 |
| 20°-30° | 269.0 | 2.3 |
| 30°-40° | 522.7 | 4.5 |
| 40°-50° | 814.4 | 7.0 |
| 50°-60° | 1074.4 | 9.2 |
| 60°-70° | 1261.6 | 10.8 |
| 70°-80° | 1357.3 | 11.6 |
| 80°-90° | 1349.6 | 11.5 |
| 90°-100° | 1254.8 | 10.7 |
| 100°-110° | 1101.7 | 9.4 |
| 110°-120° | 906.1 | 7.7 |
| 120°-130° | 682.1 | 5.8 |
| 130°-140° | 462.3 | 4.0 |
| 140°-150° | 279.9 | 2.4 |
| 150°-160° | 150.7 | 1.3 |
| 160°-170° | 70.9 | 0.6 |
| 170°-180° | 20.6 | 0.2 |
| 0°-90° | 6768.9 | 57.9 |
| 0°-180° | 11698.1 | 100.0 |



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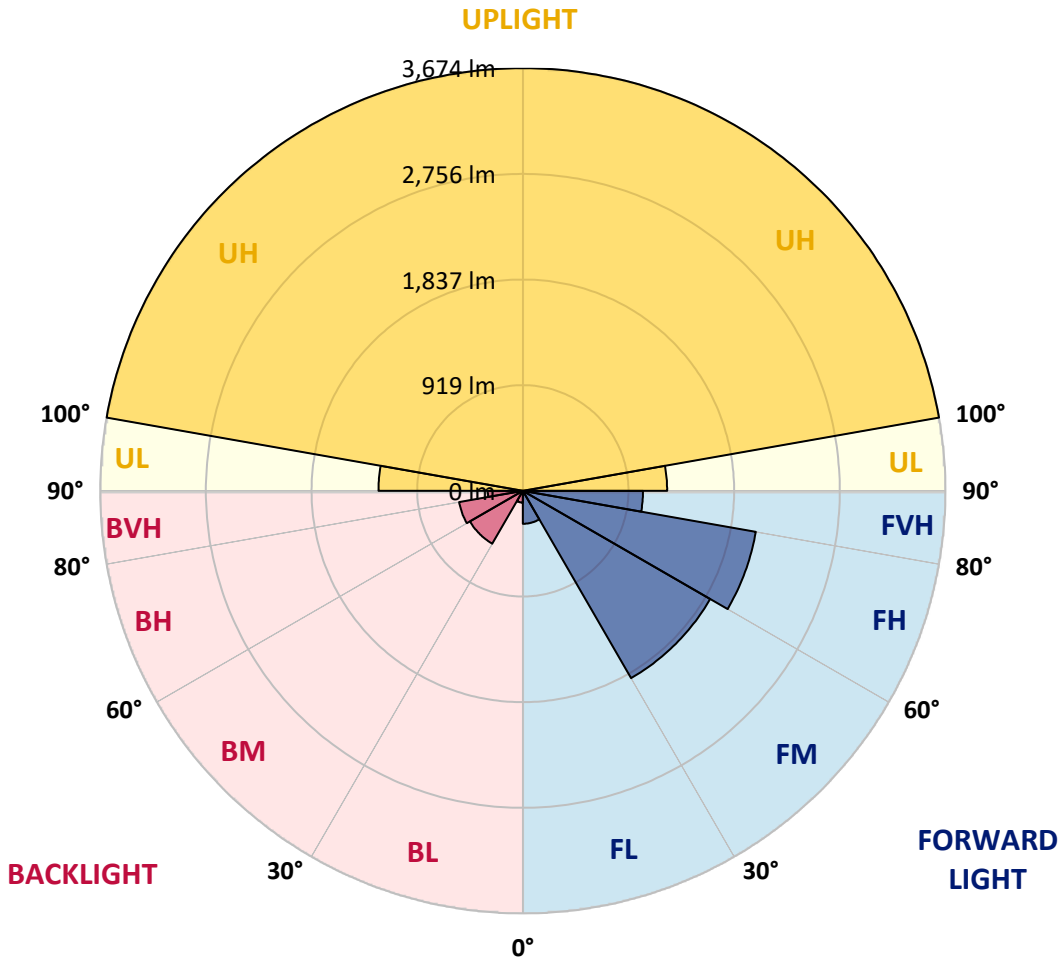
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 286.5 | 2.4 | | | |
| FM | (30°-60°) | 1880.7 | 16.1 | | | |
| FH | (60°-80°) | 2056.9 | 17.6 | | | G2/5000 |
| FVH | (80°-90°) | 1044.9 | 8.9 | | | G5 |
| BL | (0°-30°) | 102.4 | 0.9 | B0/110 | | |
| BM | (30°-60°) | 530.8 | 4.5 | B1/1000 | | |
| BH | (60°-80°) | 562.1 | 4.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 304.7 | 2.6 | | | G3/500 |
| UL | (90°-100°) | 1254.8 | 10.7 | | U5 | |
| UH | (100°-180°) | 3674.3 | 31.4 | | U5 | |

**BUG Rating: B2-U5-G5**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | *133.8* | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 |
| 2.5° | *163.0* | 163.8 | 163.0 | 163.0 | 164.7 | 163.0 | 161.3 | 155.3 | 148.4 | 139.8 | 135.5 |
| 5° | *228.2* | 228.2 | 232.5 | 232.5 | 228.2 | 218.7 | 207.6 | 192.1 | 178.4 | 163.8 | 153.5 |
| 7.5° | *311.4* | 313.1 | 309.7 | 301.1 | 295.9 | 277.1 | 265.9 | 246.2 | 229.0 | 209.3 | 199.9 |
| 10° | *398.0* | 398.9 | 394.6 | 386.9 | 370.6 | 351.7 | 335.4 | 312.2 | 289.9 | 264.2 | 250.5 |
| 12.5° | *490.6* | 488.9 | 481.2 | 464.1 | 454.6 | 433.2 | 411.7 | 387.7 | 357.7 | 326.0 | 309.7 |
| 15° | *579.0* | 575.6 | 572.1 | 554.1 | 541.3 | 519.8 | 494.9 | 462.3 | 427.2 | 392.0 | 368.0 |
| 17.5° | *663.9* | 656.2 | 651.0 | 642.5 | 622.7 | 603.9 | 572.1 | 533.5 | 495.8 | 449.5 | 424.6 |
| 20° | *754.8* | 756.6 | 748.0 | 736.0 | 714.5 | 687.1 | 656.2 | 615.0 | 567.8 | 512.9 | 482.9 |
| 22.5° | *856.9* | 856.9 | 851.8 | 836.3 | 814.0 | 778.9 | 742.8 | 699.9 | 641.6 | 584.1 | 547.3 |
| 25° | *970.1* | 964.1 | 957.3 | 937.5 | 918.7 | 880.9 | 838.0 | 791.7 | 730.8 | 661.3 | 620.2 |
| 27.5° | *1082.5* | 1079.9 | 1073.1 | 1051.6 | 1027.6 | 988.1 | 945.3 | 885.2 | 819.2 | 737.7 | 694.8 |
| 30° | *1201.7* | 1199.2 | 1192.3 | 1171.7 | 1136.5 | 1097.9 | 1046.5 | 982.1 | 910.1 | 818.3 | 771.1 |
| 32.5° | *1316.7* | 1316.7 | 1308.1 | 1286.7 | 1249.8 | 1203.4 | 1148.6 | 1076.5 | 996.7 | 902.4 | 845.8 |
| 35° | *1444.5* | 1443.6 | 1428.2 | 1402.5 | 1357.8 | 1317.5 | 1255.8 | 1180.3 | 1090.2 | 982.1 | 922.1 |
| 37.5° | *1562.0* | 1557.7 | 1542.3 | 1514.8 | 1473.6 | 1421.3 | 1351.8 | 1268.6 | 1176.0 | 1061.1 | 993.3 |
| 40° | *1677.8* | 1672.6 | 1658.9 | 1628.0 | 1578.3 | 1519.1 | 1447.9 | 1358.7 | 1254.1 | 1134.8 | 1064.5 |
| 42.5° | *1782.4* | 1780.7 | 1761.0 | 1724.1 | 1674.4 | 1607.5 | 1531.1 | 1436.8 | 1332.1 | 1203.4 | 1128.8 |
| 45° | *1877.7* | 1877.7 | 1857.9 | 1817.6 | 1761.0 | 1693.2 | 1609.2 | 1512.2 | 1400.7 | 1266.1 | 1187.2 |
| 47.5° | *1967.7* | 1967.7 | 1948.8 | 1902.5 | 1839.9 | 1765.3 | 1679.5 | 1579.2 | 1460.8 | 1322.7 | 1238.6 |
| 50° | *2049.2* | 2045.8 | 2024.3 | 1972.9 | 1909.4 | 1831.3 | 1741.3 | 1635.8 | 1516.5 | 1373.3 | 1288.4 |
| 52.5° | *2119.5* | 2115.3 | 2090.4 | 2042.3 | 1971.2 | 1887.9 | 1793.6 | 1686.4 | 1562.0 | 1417.0 | 1330.4 |
| 55° | *2178.7* | 2176.2 | 2152.1 | 2097.2 | 2022.6 | 1939.4 | 1839.1 | 1727.5 | 1604.9 | 1453.9 | 1366.4 |
| 57.5° | *2230.2* | 2225.9 | 2197.6 | 2141.8 | 2067.2 | 1976.3 | 1875.1 | 1764.4 | 1637.5 | 1487.4 | 1396.4 |
| 60° | *2268.8* | 2264.5 | 2235.3 | 2179.6 | 2104.1 | 2008.0 | 1906.8 | 1794.5 | 1665.8 | 1514.0 | 1421.3 |
| 62.5° | *2300.5* | 2295.4 | 2267.1 | 2207.9 | 2129.0 | 2034.6 | 1930.8 | 1816.8 | 1688.1 | 1535.4 | 1442.8 |
| 65° | *2320.3* | 2316.0 | 2288.5 | 2229.3 | 2147.9 | 2052.6 | 1948.8 | 1833.9 | 1706.1 | 1551.7 | 1459.1 |
| 67.5° | *2333.1* | 2329.7 | 2301.4 | 2243.9 | 2162.4 | 2065.5 | 1960.0 | 1845.1 | 1718.1 | 1563.7 | 1471.1 |
| 70° | *2339.1* | *2335.7* | *2306.5* | *2248.2* | *2167.6* | *2070.7* | *1965.1* | *1850.2* | *1724.1* | *1572.3* | *1478.8* |
| 71° | *2339.1* | 2335.7 | 2307.4 | 2249.1 | 2168.4 | 2071.5 | 1966.0 | 1851.1 | 1725.0 | 1573.1 | 1479.7 |
| 72.5° | *2336.6* | 2334.0 | 2305.7 | 2246.5 | 2165.9 | 2069.8 | 1963.4 | 1850.2 | 1725.0 | 1574.0 | 1481.4 |
| 75° | *2327.1* | 2322.0 | 2294.5 | 2237.1 | 2157.3 | 2061.2 | 1955.7 | 1842.5 | 1719.8 | 1571.4 | 1479.7 |
| 77.5° | *2310.0* | 2305.7 | 2277.4 | 2221.6 | 2141.8 | 2044.9 | 1940.3 | 1829.6 | 1709.5 | 1562.9 | 1472.8 |
| 80° | *2285.1* | 2280.8 | 2253.4 | 2195.9 | 2117.0 | 2023.5 | 1918.8 | 1809.9 | 1691.5 | 1549.1 | 1460.8 |
| 82.5° | *2253.4* | 2249.9 | 2223.3 | 2165.9 | 2087.8 | 1995.2 | 1890.5 | 1784.2 | 1671.8 | 1530.3 | 1443.6 |
| 85° | *2215.6* | 2211.3 | 2182.2 | 2125.6 | 2050.9 | 1958.3 | 1856.2 | 1753.3 | 1643.5 | 1507.1 | 1423.0 |
| 87.5° | *2170.2* | 2167.6 | 2138.4 | 2084.4 | 2009.8 | 1918.0 | 1820.2 | 1719.8 | 1611.7 | 1481.4 | 1399.9 |
| 90° | *2120.4* | 2119.5 | 2088.7 | 2034.6 | 1960.9 | 1874.2 | 1777.3 | 1679.5 | 1574.9 | 1450.5 | 1371.6 |
| 92.5° | *2070.7* | 2070.7 | 2039.8 | 1984.0 | 1911.1 | 1825.3 | 1733.6 | 1639.2 | 1539.7 | 1419.6 | 1344.1 |
| 95° | *2015.8* | 2009.8 | 1980.6 | 1930.8 | 1857.9 | 1775.6 | 1687.2 | 1594.6 | 1498.5 | 1384.4 | 1313.2 |
| 97.5° | *1951.4* | 1949.7 | 1921.4 | 1868.2 | 1801.3 | 1722.4 | 1636.6 | 1550.8 | 1458.2 | 1348.4 | 1280.6 |
| 100° | *1888.8* | 1885.4 | 1858.8 | 1809.9 | 1741.3 | 1665.8 | 1585.2 | 1502.8 | 1415.3 | 1311.5 | 1246.3 |
| 102.5° | *1827.0* | 1818.5 | 1791.0 | 1741.3 | 1681.2 | 1607.5 | 1532.0 | 1456.5 | 1370.7 | 1272.1 | 1211.2 |
| 105° | *1752.4* | 1751.6 | 1723.3 | 1676.1 | 1615.2 | 1550.0 | 1478.8 | 1405.0 | 1327.0 | 1231.8 | 1175.1 |
| 107.5° | *1679.5* | 1679.5 | 1652.9 | 1606.6 | 1549.1 | 1486.5 | 1423.0 | 1353.6 | 1281.5 | 1189.7 | 1138.3 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *1604.9* | 1604.0 | 1580.0 | 1538.8 | 1483.9 | 1423.9 | 1365.6 | 1302.1 | 1230.0 | 1149.4 | 1098.8 |
| 112.5° | *1531.1* | 1529.4 | 1506.2 | 1464.2 | 1413.6 | 1364.7 | 1306.4 | 1248.1 | 1182.0 | 1107.4 | 1059.3 |
| 115° | *1456.5* | 1454.8 | 1429.9 | 1393.0 | 1346.7 | 1296.1 | 1247.2 | 1191.4 | 1134.0 | 1059.3 | 1017.3 |
| 117.5° | *1379.3* | 1377.6 | 1357.0 | 1321.0 | 1277.2 | 1236.9 | 1188.0 | 1140.0 | 1081.6 | 1013.9 | 971.9 |
| 120° | *1300.4* | 1301.2 | 1280.6 | 1248.1 | 1207.7 | 1170.0 | 1127.1 | 1083.4 | 1029.3 | 965.0 | 924.7 |
| 122.5° | *1225.8* | 1219.7 | 1206.0 | 1176.9 | 1140.8 | 1105.7 | 1069.6 | 1025.0 | 974.4 | 913.5 | 878.4 |
| 125° | *1146.0* | 1144.3 | 1130.5 | 1101.4 | 1070.5 | 1043.0 | 1009.6 | 969.3 | 923.0 | 861.2 | 829.5 |
| 127.5° | *1068.8* | 1071.4 | 1055.9 | 1034.5 | 1004.4 | 981.3 | 947.0 | 911.8 | 867.2 | 811.4 | 781.4 |
| 130° | *996.7* | 995.0 | 986.4 | 964.1 | 939.3 | 915.2 | 889.5 | 857.8 | 815.7 | 760.0 | 732.5 |
| 132.5° | *929.8* | 922.1 | 914.4 | 895.5 | 874.9 | 855.2 | 832.9 | 801.2 | 758.3 | 709.4 | 685.4 |
| 135° | *856.9* | 856.9 | 844.9 | 828.6 | 814.0 | 795.2 | 772.8 | 743.7 | 706.8 | 663.9 | 636.5 |
| 137.5° | *790.0* | 786.6 | 778.9 | 766.0 | 752.3 | 738.5 | 719.7 | 690.5 | 657.9 | 616.7 | 592.7 |
| 140° | *726.5* | 724.0 | 717.1 | 705.9 | 694.8 | 681.9 | 664.8 | 639.9 | 609.9 | 570.4 | 549.8 |
| 142.5° | *660.5* | 662.2 | 656.2 | 648.5 | 635.6 | 627.0 | 611.6 | 589.3 | 562.7 | 528.4 | 508.7 |
| 145° | *601.3* | 602.2 | 599.6 | 591.9 | 582.4 | 573.8 | 557.5 | 541.3 | 515.5 | 484.6 | 470.1 |
| 147.5° | *552.4* | 549.0 | 543.8 | 539.5 | 531.0 | 524.1 | 511.2 | 495.8 | 471.8 | 445.2 | 431.5 |
| 150° | *497.5* | 500.1 | 494.9 | 489.8 | 484.6 | 475.2 | 465.8 | 452.9 | 430.6 | 409.2 | 394.6 |
| 152.5° | *451.2* | 452.9 | 448.6 | 446.0 | 440.9 | 433.2 | 423.7 | 411.7 | 394.6 | 375.7 | 362.0 |
| 155° | *410.0* | 410.0 | 410.0 | 406.6 | 400.6 | 395.4 | 386.0 | 374.8 | 360.3 | 343.1 | 333.7 |
| 157.5° | *372.3* | 373.1 | 373.1 | 368.8 | 364.6 | 360.3 | 352.5 | 343.1 | 330.2 | 315.7 | 308.8 |
| 160° | *342.2* | 340.5 | 339.7 | 336.2 | 332.8 | 329.4 | 322.5 | 314.8 | 303.7 | 291.6 | 285.6 |
| 162.5° | *312.2* | 312.2 | 310.5 | 307.9 | 305.4 | 300.2 | 295.9 | 288.2 | 280.5 | 271.9 | 265.1 |
| 165° | *289.1* | 288.2 | 288.2 | 284.8 | 282.2 | 277.9 | 273.6 | 268.5 | 261.6 | 253.9 | 248.8 |
| 167.5° | *269.3* | 267.6 | 266.8 | 265.1 | 261.6 | 259.0 | 254.8 | 250.5 | 245.3 | 240.2 | 235.9 |
| 170° | *250.5* | 251.3 | 249.6 | 247.9 | 246.2 | 243.6 | 240.2 | 236.7 | 232.5 | 227.3 | 225.6 |
| 172.5° | *237.6* | 236.7 | 235.9 | 234.2 | 232.5 | 229.9 | 228.2 | 224.7 | 222.2 | 218.7 | 217.0 |
| 175° | *225.6* | 225.6 | 224.7 | 223.0 | 221.3 | 219.6 | 217.9 | 216.2 | 214.4 | 211.9 | 211.0 |
| 177.5° | *216.2* | 216.2 | 216.2 | 214.4 | 213.6 | 212.7 | 211.0 | 210.2 | 209.3 | 207.6 | 207.6 |
| 180° | *206.7* | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 | 133.8 |
| 2.5° | 131.2 | 120.1 | 110.7 | 102.1 | 95.2 | 89.2 | 85.8 | 79.8 | 75.5 | 72.9 |
| 5° | 147.5 | 131.2 | 117.5 | 103.8 | 93.5 | 82.3 | 71.2 | 60.0 | 53.2 | 52.3 |
| 7.5° | 187.0 | 169.0 | 148.4 | 130.4 | 109.8 | 92.6 | 78.1 | 66.9 | 62.6 | 61.8 |
| 10° | 236.7 | 210.2 | 182.7 | 156.1 | 129.5 | 108.1 | 92.6 | 82.3 | 77.2 | 76.3 |
| 12.5° | 291.6 | 255.6 | 220.4 | 186.1 | 154.4 | 130.4 | 111.5 | 99.5 | 93.5 | 93.5 |
| 15° | 348.3 | 303.7 | 259.0 | 217.0 | 180.1 | 150.1 | 126.9 | 111.5 | 104.6 | 103.8 |
| 17.5° | 398.0 | 347.4 | 294.2 | 244.5 | 199.9 | 162.1 | 134.7 | 115.8 | 107.2 | 106.4 |
| 20° | 454.6 | 390.3 | 329.4 | 267.6 | 215.3 | 171.6 | 139.0 | 117.5 | 106.4 | 105.5 |
| 22.5° | 514.7 | 441.8 | 366.3 | 294.2 | 231.6 | 181.0 | 143.2 | 119.2 | 107.2 | 105.5 |
| 25° | 582.4 | 494.9 | 404.0 | 320.8 | 247.9 | 189.6 | 147.5 | 120.9 | 108.1 | 106.4 |
| 27.5° | 646.8 | 549.8 | 444.3 | 345.7 | 262.5 | 197.3 | 151.0 | 122.7 | 108.9 | 107.2 |
| 30° | 715.4 | 603.9 | 483.8 | 372.3 | 277.9 | 205.0 | 154.4 | 123.5 | 108.9 | 107.2 |
| 32.5° | 784.9 | 656.2 | 525.0 | 396.3 | 290.8 | 210.2 | 156.1 | 124.4 | 109.8 | 108.1 |
| 35° | 858.6 | 712.8 | 563.6 | 421.2 | 302.8 | 215.3 | 157.8 | 125.2 | 109.8 | 108.1 |
| 37.5° | 926.4 | 766.8 | 601.3 | 442.6 | 313.1 | 219.6 | 159.5 | 125.2 | 110.7 | 108.9 |
| 40° | 987.3 | 815.7 | 634.7 | 461.5 | 321.7 | 222.2 | 160.4 | 126.1 | 111.5 | 109.8 |
| 42.5° | 1047.3 | 863.8 | 664.8 | 476.9 | 328.5 | 223.9 | 161.3 | 126.9 | 112.4 | 110.7 |
| 45° | 1100.5 | 904.1 | 692.2 | 491.5 | 333.7 | 225.6 | 162.1 | 127.8 | 113.2 | 111.5 |
| 47.5° | 1147.7 | 941.8 | 718.0 | 503.5 | 337.1 | 226.5 | 163.0 | 128.7 | 114.9 | 113.2 |
| 50° | 1193.2 | 977.9 | 737.7 | 512.9 | 340.5 | 227.3 | 163.0 | 130.4 | 117.5 | 115.8 |
| 52.5° | 1231.8 | 1007.0 | 755.7 | 520.7 | 342.2 | 228.2 | 164.7 | 132.1 | 119.2 | 118.4 |
| 55° | 1265.2 | 1032.8 | 772.0 | 526.7 | 344.0 | 228.2 | 166.4 | 134.7 | 122.7 | 120.9 |
| 57.5° | 1292.7 | 1053.3 | 783.1 | 530.1 | 344.0 | 229.0 | 167.3 | 138.1 | 126.1 | 124.4 |
| 60° | 1316.7 | 1071.4 | 793.4 | 534.4 | 344.8 | 229.9 | 169.8 | 141.5 | 130.4 | 129.5 |
| 62.5° | 1336.4 | 1085.1 | 801.2 | 537.0 | 345.7 | 232.5 | 173.3 | 145.8 | 134.7 | 133.8 |
| 65° | 1351.8 | 1097.1 | 807.2 | 538.7 | 346.5 | 234.2 | 176.7 | 150.1 | 140.7 | 139.8 |
| 67.5° | 1362.1 | 1105.7 | 811.4 | 539.5 | 347.4 | 236.7 | 181.0 | 156.1 | 146.7 | 145.0 |
| 70° | *1369.9* | *1110.8* | *814.0* | *540.4* | *349.1* | *239.3* | *186.1* | *161.3* | *152.7* | *151.8* |
| 71° | 1371.6 | 1111.7 | 814.9 | 540.4 | 350.0 | 241.0 | 187.9 | 163.8 | 155.3 | 154.4 |
| 72.5° | 1372.4 | 1112.5 | 814.9 | 540.4 | 350.8 | 243.6 | 191.3 | 168.1 | 159.5 | 158.7 |
| 75° | 1371.6 | 1111.7 | 814.0 | 540.4 | 352.5 | 247.9 | 197.3 | 174.1 | 166.4 | 165.5 |
| 77.5° | 1365.6 | 1108.2 | 811.4 | 540.4 | 355.1 | 253.0 | 204.1 | 182.7 | 174.1 | 173.3 |
| 80° | 1355.3 | 1101.4 | 807.2 | 539.5 | 357.7 | 259.0 | 211.0 | 190.4 | 181.8 | 181.0 |
| 82.5° | 1341.5 | 1091.1 | 801.2 | 539.5 | 361.1 | 264.2 | 217.9 | 197.3 | 190.4 | 189.6 |
| 85° | 1323.5 | 1079.1 | 795.2 | 538.7 | 365.4 | 271.1 | 226.5 | 206.7 | 199.9 | 198.1 |
| 87.5° | 1302.1 | 1064.5 | 788.3 | 538.7 | 369.7 | 278.8 | 235.0 | 215.3 | 208.4 | 206.7 |
| 90° | 1278.1 | 1048.2 | 781.4 | 538.7 | 374.8 | 286.5 | 244.5 | 224.7 | 217.0 | 216.2 |
| 92.5° | 1254.1 | 1032.8 | 774.6 | 539.5 | 381.7 | 295.1 | 253.9 | 235.0 | 227.3 | 227.3 |
| 95° | 1226.6 | 1013.9 | 766.8 | 541.3 | 388.6 | 304.5 | 265.1 | 245.3 | 237.6 | 236.7 |
| 97.5° | 1199.2 | 996.7 | 760.8 | 543.8 | 396.3 | 315.7 | 275.3 | 256.5 | 248.8 | 247.0 |
| 100° | 1168.3 | 978.7 | 754.8 | 547.3 | 405.7 | 326.0 | 286.5 | 267.6 | 259.9 | 259.0 |
| 102.5° | 1138.3 | 959.0 | 748.0 | 551.5 | 415.2 | 338.0 | 298.5 | 278.8 | 271.1 | 270.2 |
| 105° | 1105.7 | 938.4 | 740.3 | 555.0 | 424.6 | 349.1 | 309.7 | 289.1 | 280.5 | 280.5 |
| 107.5° | 1073.9 | 917.0 | 732.5 | 559.3 | 434.0 | 360.3 | 319.9 | 299.4 | 289.9 | 289.1 |

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

Scaled Data Report

REPORT NUMBER: P1223952
CATALOG NUMBER: FFX-CLB-80-740-U-VM9-T4-HSS

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 1037.9 | 893.8 | 723.1 | 561.8 | 442.6 | 369.7 | 329.4 | 307.1 | 297.6 | 296.8 |
| 112.5° | 1005.3 | 868.9 | 712.8 | 562.7 | 450.3 | 378.3 | 337.1 | 313.9 | 304.5 | 302.8 |
| 115° | 964.1 | 843.2 | 699.1 | 561.0 | 454.6 | 385.1 | 342.2 | 318.2 | 307.9 | 306.2 |
| 117.5° | 924.7 | 814.0 | 684.5 | 556.7 | 457.2 | 388.6 | 345.7 | 320.8 | 309.7 | 307.9 |
| 120° | 884.4 | 781.4 | 663.9 | 549.0 | 454.6 | 388.6 | 345.7 | 319.1 | 307.9 | 307.1 |
| 122.5° | 838.9 | 747.1 | 642.5 | 537.8 | 450.3 | 385.1 | 342.2 | 316.5 | 304.5 | 303.7 |
| 125° | 791.7 | 710.2 | 616.7 | 522.4 | 441.8 | 380.0 | 337.1 | 311.4 | 299.4 | 298.5 |
| 127.5° | 746.3 | 672.5 | 590.1 | 504.4 | 429.7 | 371.4 | 330.2 | 303.7 | 291.6 | 289.9 |
| 130° | 701.7 | 633.0 | 560.1 | 482.9 | 415.2 | 360.3 | 320.8 | 295.9 | 283.9 | 282.2 |
| 132.5° | 655.3 | 595.3 | 530.1 | 462.3 | 399.7 | 348.3 | 310.5 | 286.5 | 275.3 | 273.6 |
| 135° | 611.6 | 555.8 | 497.5 | 437.5 | 381.7 | 334.5 | 299.4 | 277.1 | 265.9 | 265.1 |
| 137.5° | 569.6 | 518.9 | 467.5 | 413.4 | 363.7 | 320.8 | 288.2 | 267.6 | 257.3 | 255.6 |
| 140° | 526.7 | 482.9 | 436.6 | 390.3 | 344.0 | 306.2 | 277.1 | 257.3 | 247.9 | 246.2 |
| 142.5° | 489.8 | 448.6 | 407.4 | 364.6 | 325.1 | 290.8 | 265.1 | 247.0 | 239.3 | 238.5 |
| 145° | 451.2 | 415.2 | 378.3 | 341.4 | 307.1 | 277.1 | 253.9 | 238.5 | 230.7 | 229.9 |
| 147.5° | 416.9 | 382.6 | 350.8 | 319.1 | 289.1 | 262.5 | 242.7 | 229.9 | 223.9 | 223.0 |
| 150° | 381.7 | 354.3 | 326.8 | 297.6 | 271.9 | 249.6 | 233.3 | 222.2 | 216.2 | 215.3 |
| 152.5° | 350.8 | 327.7 | 302.8 | 280.5 | 256.5 | 238.5 | 224.7 | 214.4 | 210.2 | 209.3 |
| 155° | 324.2 | 304.5 | 283.9 | 263.3 | 244.5 | 229.9 | 217.9 | 209.3 | 205.9 | 205.9 |
| 157.5° | 301.1 | 283.9 | 266.8 | 249.6 | 234.2 | 221.3 | 211.9 | 205.9 | 202.4 | 201.6 |
| 160° | 278.8 | 265.1 | 249.6 | 236.7 | 224.7 | 215.3 | 207.6 | 202.4 | 199.9 | 199.0 |
| 162.5° | 260.8 | 248.8 | 238.5 | 227.3 | 217.9 | 210.2 | 204.1 | 199.9 | 198.1 | 198.1 |
| 165° | 245.3 | 236.7 | 227.3 | 219.6 | 211.9 | 205.9 | 201.6 | 199.0 | 197.3 | 197.3 |
| 167.5° | 233.3 | 225.6 | 219.6 | 212.7 | 207.6 | 203.3 | 199.9 | 198.1 | 197.3 | 196.4 |
| 170° | 223.0 | 217.9 | 212.7 | 208.4 | 204.1 | 201.6 | 199.0 | 198.1 | 197.3 | 197.3 |
| 172.5° | 215.3 | 211.9 | 208.4 | 205.0 | 202.4 | 199.9 | 199.0 | 198.1 | 198.1 | 198.1 |
| 175° | 209.3 | 207.6 | 205.0 | 203.3 | 201.6 | 200.7 | 199.9 | 199.9 | 199.9 | 199.9 |
| 177.5° | 206.7 | 205.0 | 204.1 | 203.3 | 202.4 | 202.4 | 202.4 | 203.3 | 203.3 | 203.3 |
| 180° | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 | 206.7 |

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

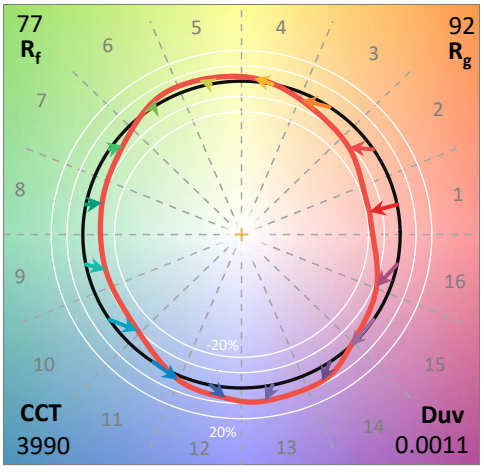
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-1 |
| 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-100-740-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3990 | CRI (Ra): | 73.9 | | |
| CIE u': | 0.2247 | R1: | 69.6 | R9: | -36.4 |
| CIE v': | 0.5031 | R2: | 83.0 | R10: | 60.9 |
| Duv: | 0.0011 | R3: | 93.1 | R11: | 66.8 |
| CIE x: | 0.3816 | R4: | 70.6 | R12: | 52.5 |
| CIE y: | 0.3798 | R5: | 70.6 | R13: | 72.5 |
| CIE z: | 0.2386 | R6: | 76.4 | R14: | 96.4 |
| Peak Wavelength (nm): | 450 | R7: | 79.8 | R15: | 61.3 |
| Dominant Wavelength (nm): | 578 | R8: | 48.1 | | |
| Purity: | 28.50862 | | | | |

| | |
|---|---|
| Rf: | 77.5 |
| Rg: | 91.9 |




## Test Conditions

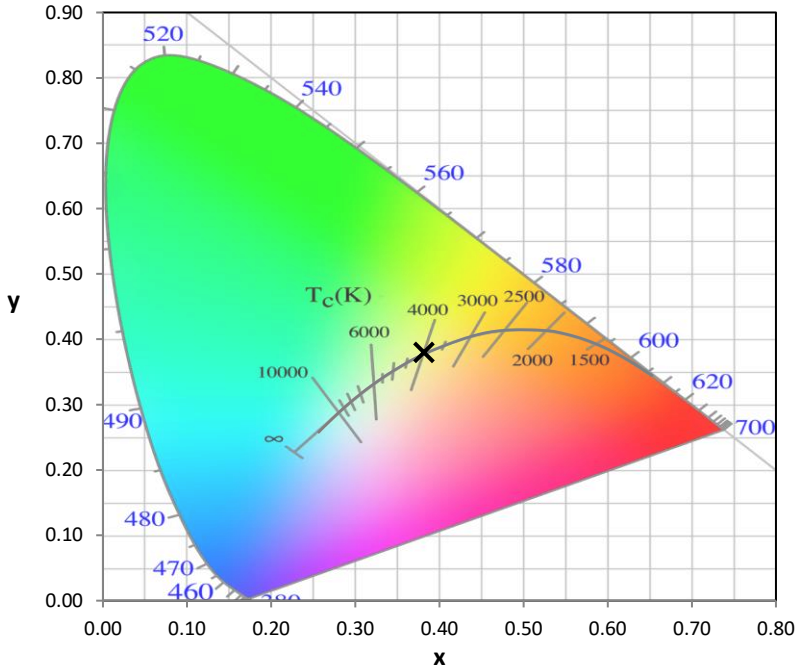
| | |
|---|---|
| Stabilization Time: | 70M |
| Operation Time: | 2H 10M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-1

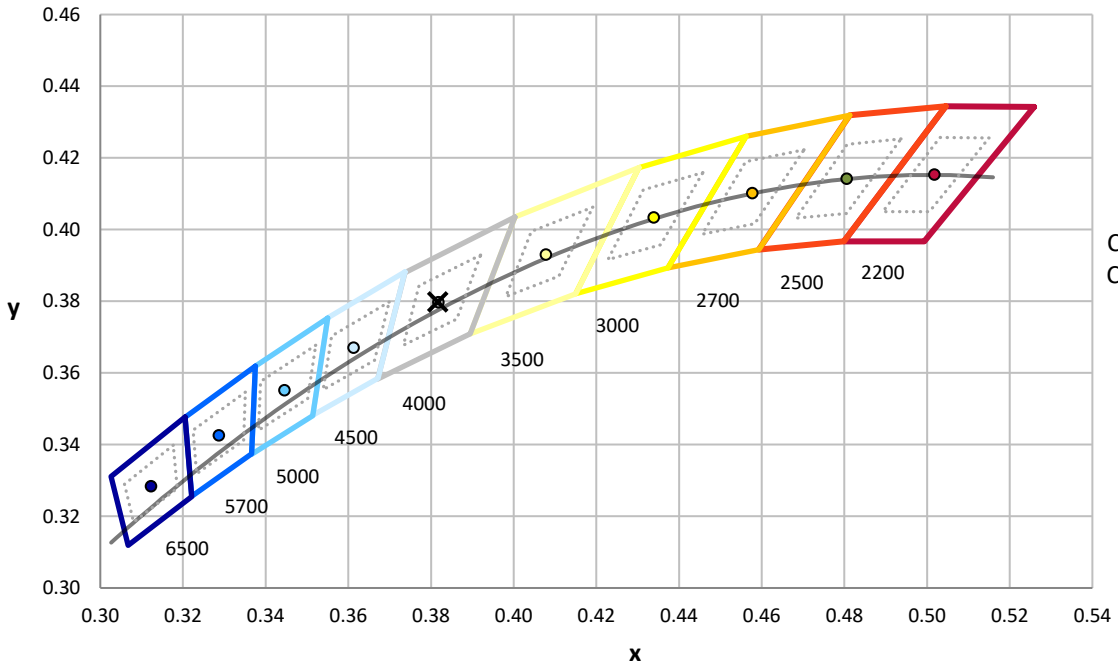
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-1

## CIE 1931 Chromaticity Diagram




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

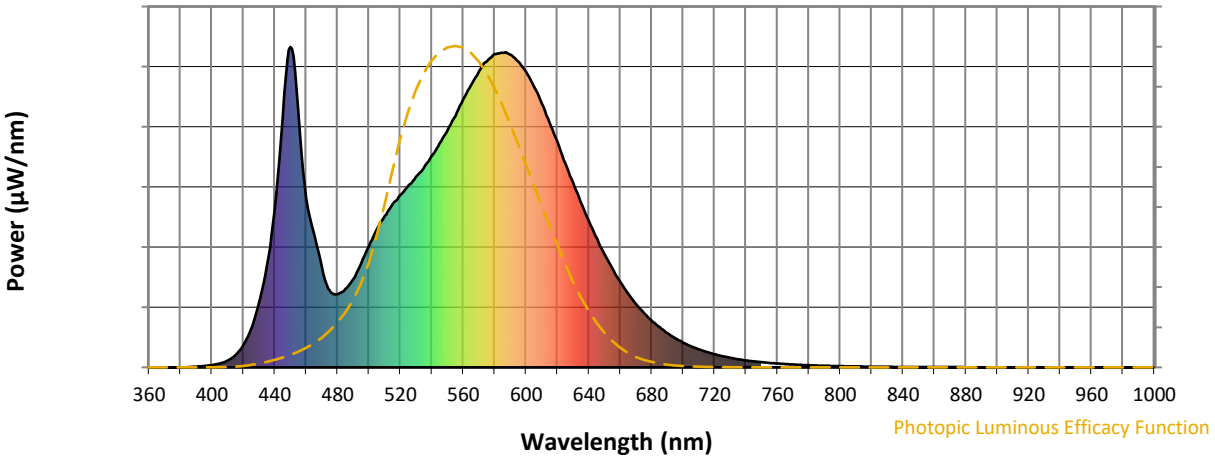



CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

## Photopic Flux vs. Wavelength

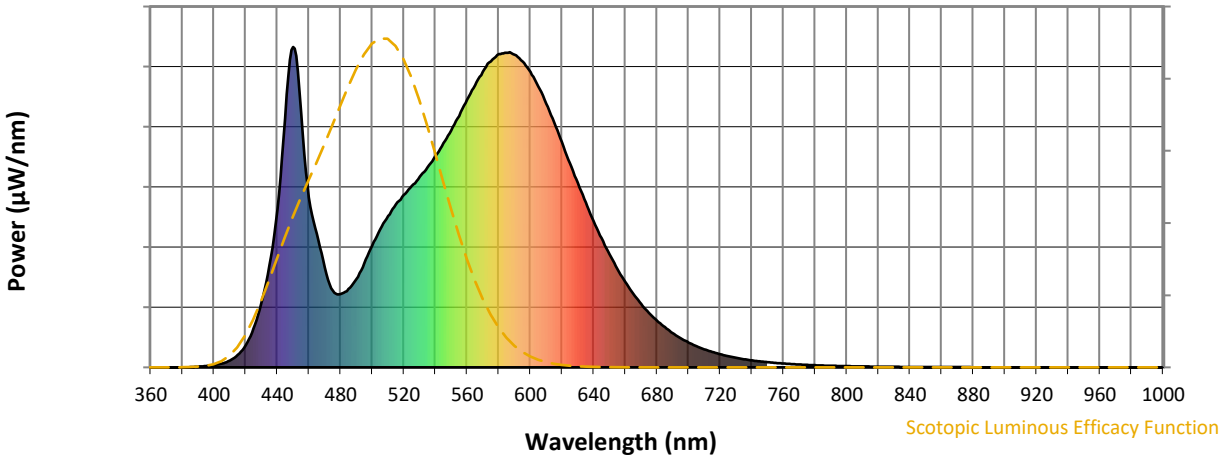



## Photopic Lumens: NR

| 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 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-1

## Scotopic Flux vs. Wavelength

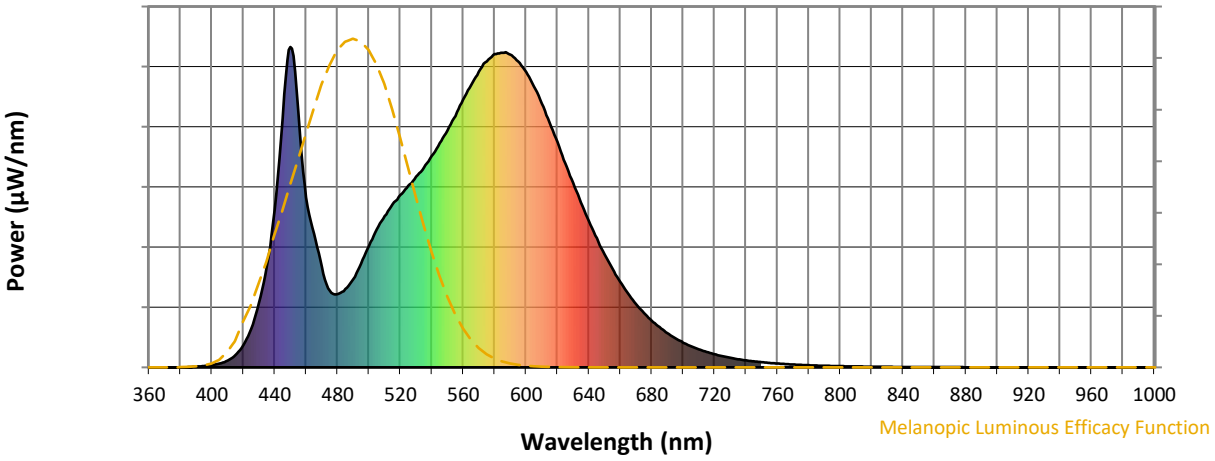



**Scotopic Lumens: NR** **S/P: 1.59**

| 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 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.21**

| 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 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

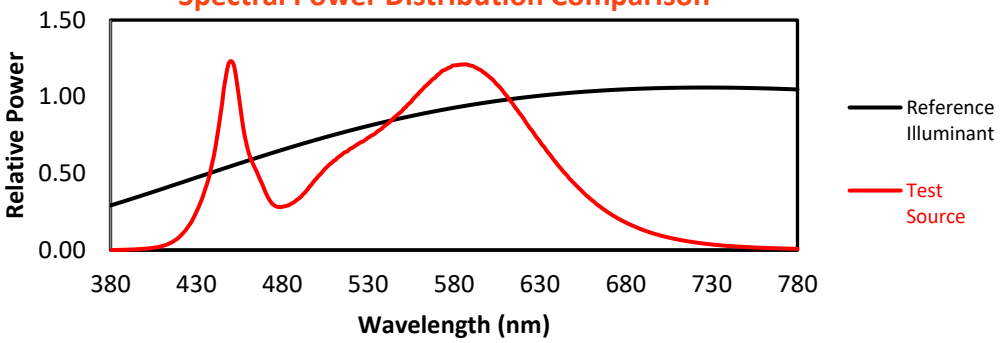
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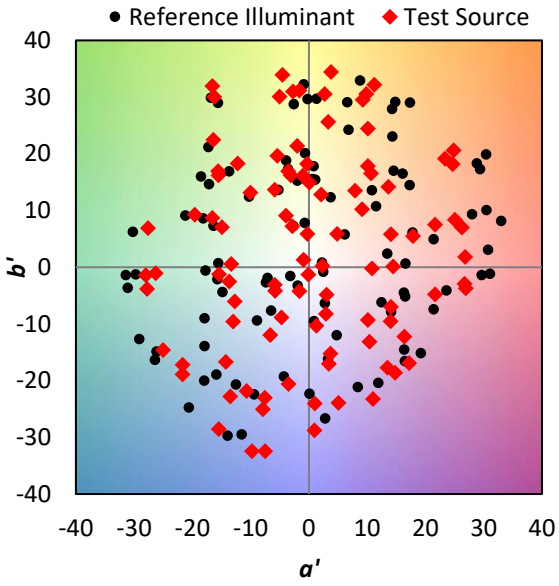
## Summary

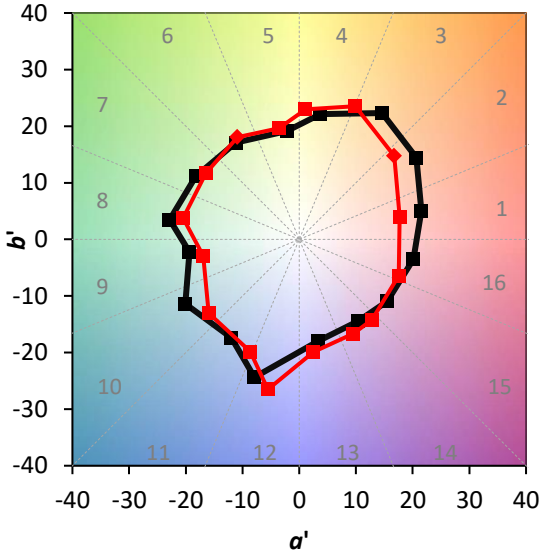
$R_f$ = 77.5
$R_g$ = 91.9
CIE $R_a$ = 73.9
$R_9$ = -36.4

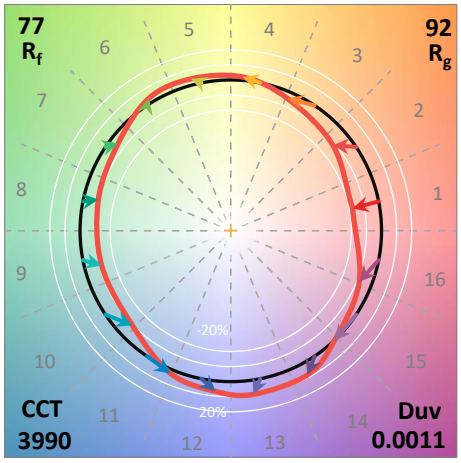
## Spectral Power Distribution Comparison

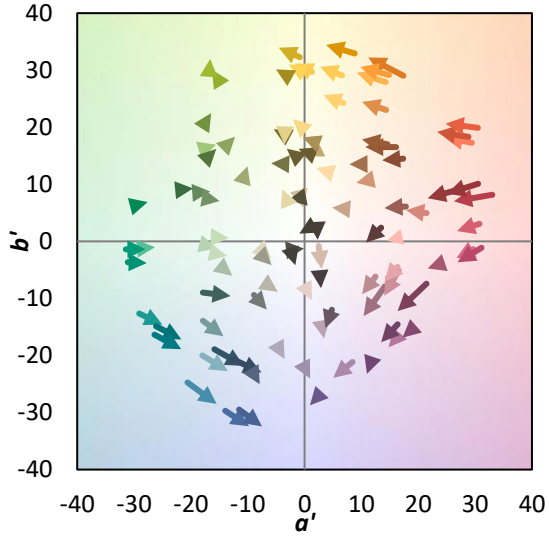



## Color Vector Graphics



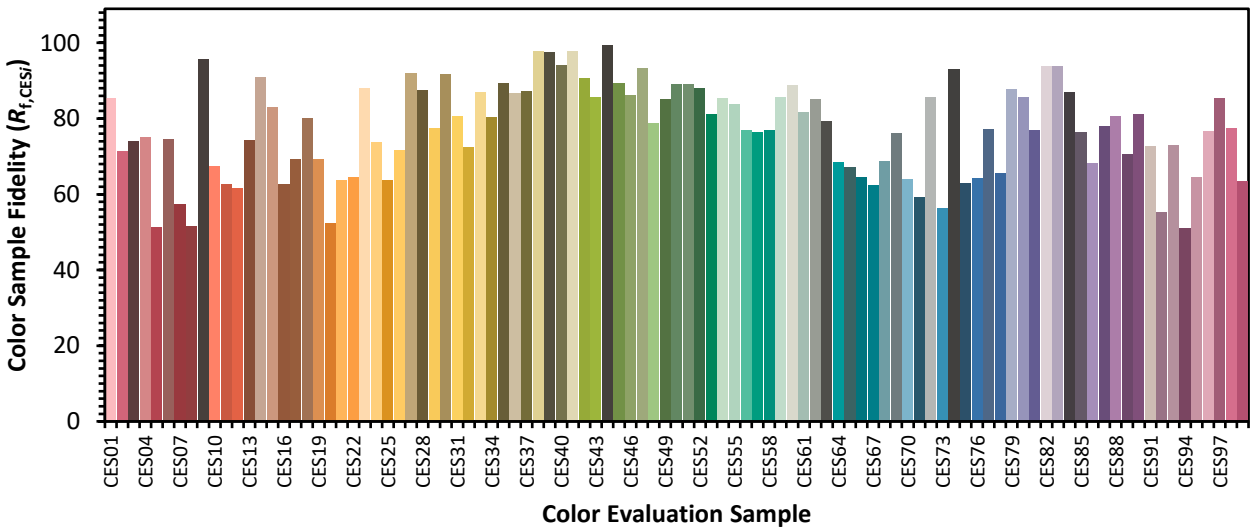



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**Individual Sample Fidelity Index ($R_{f,i}$)**

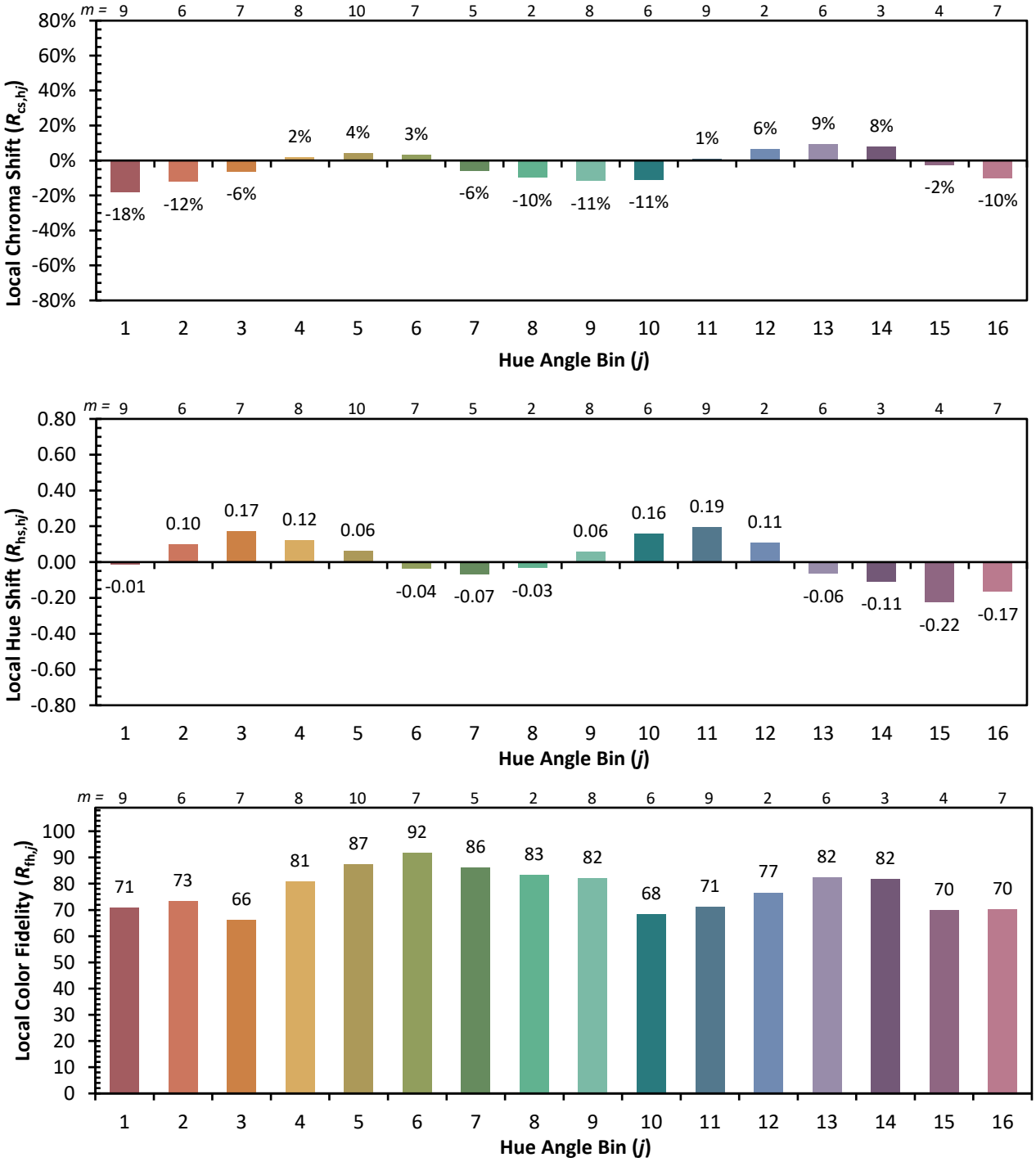
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 89 | CES76 = 64 |
| CES02 = 61 | CES27 = 92 | CES52 = 88 | CES77 = 77 |
| CES03 = 30 | CES28 = 88 | CES53 = 81 | CES78 = 65 |
| CES04 = 70 | CES29 = 78 | CES54 = 85 | CES79 = 88 |
| CES05 = 47 | CES30 = 92 | CES55 = 84 | CES80 = 86 |
| CES06 = 50 | CES31 = 81 | CES56 = 77 | CES81 = 77 |
| CES07 = 40 | CES32 = 72 | CES57 = 76 | CES82 = 94 |
| CES08 = 39 | CES33 = 87 | CES58 = 77 | CES83 = 94 |
| CES09 = 29 | CES34 = 80 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 89 | CES60 = 89 | CES85 = 76 |
| CES11 = 57 | CES36 = 87 | CES61 = 82 | CES86 = 68 |
| CES12 = 63 | CES37 = 87 | CES62 = 85 | CES87 = 78 |
| CES13 = 42 | CES38 = 98 | CES63 = 79 | CES88 = 81 |
| CES14 = 74 | CES39 = 98 | CES64 = 68 | CES89 = 71 |
| CES15 = 71 | CES40 = 94 | CES65 = 67 | CES90 = 81 |
| CES16 = 46 | CES41 = 98 | CES66 = 65 | CES91 = 73 |
| CES17 = 49 | CES42 = 91 | CES67 = 62 | CES92 = 55 |
| CES18 = 56 | CES43 = 86 | CES68 = 69 | CES93 = 73 |
| CES19 = 72 | CES44 = 99 | CES69 = 76 | CES94 = 51 |
| CES20 = 65 | CES45 = 89 | CES70 = 64 | CES95 = 65 |
| CES21 = 86 | CES46 = 86 | CES71 = 59 | CES96 = 77 |
| CES22 = 78 | CES47 = 93 | CES72 = 86 | CES97 = 85 |
| CES23 = 92 | CES48 = 79 | CES73 = 56 | CES98 = 77 |
| CES24 = 91 | CES49 = 85 | CES74 = 93 | CES99 = 63 |
| CES25 = 72 | CES50 = 89 | CES75 = 63 | |



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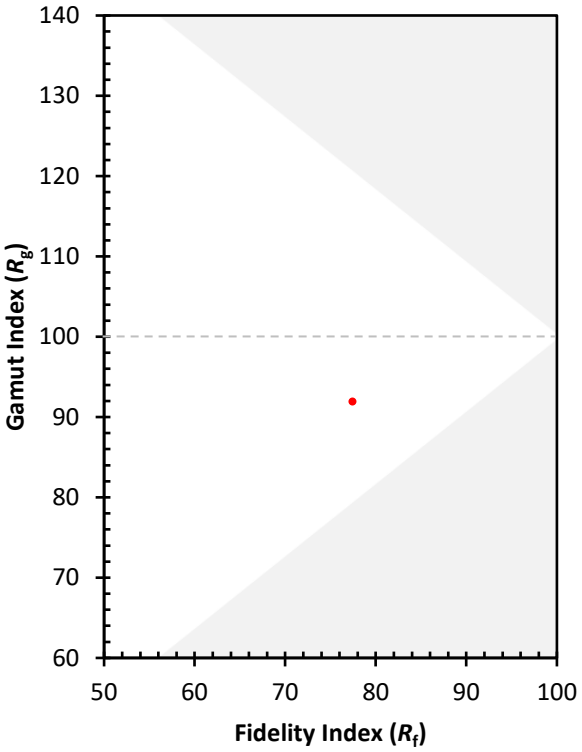
## Color Rendition by Hue-Angle Bin

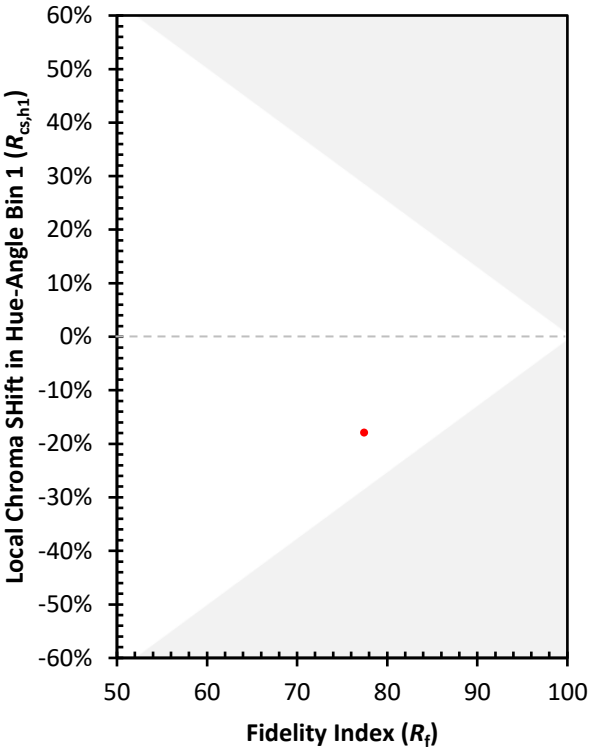


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## Measure Comparisons




(END OF REPORT)