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: P1223997

Luminaire Tested: **FFX-CLB-80-740-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1223997 |
| 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-VM8-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION |
| Light Source: | (6) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 12714.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 155.4 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 |

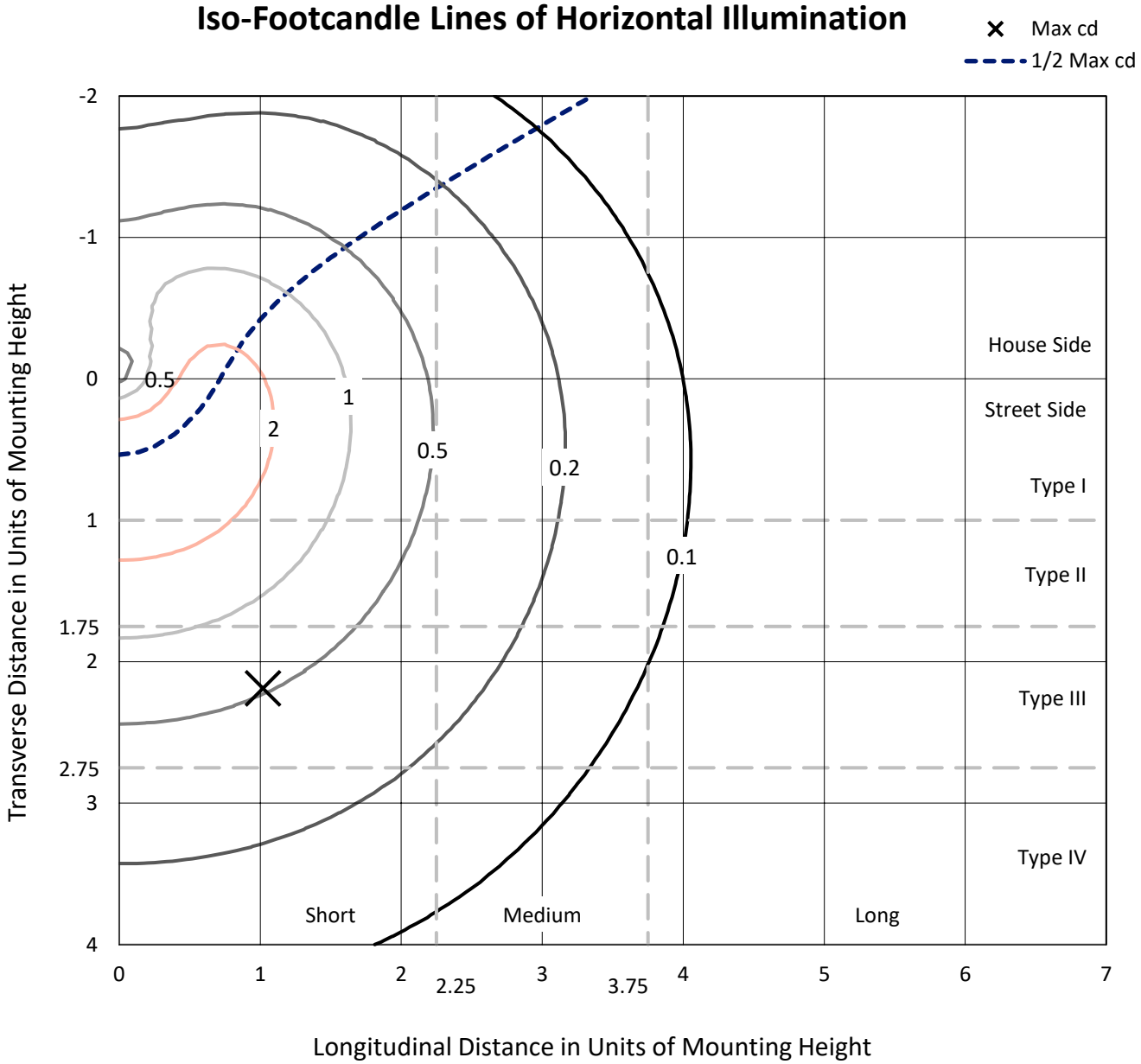


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REPORT NUMBER: P1223997
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## Iso-Footcandle Lines of Horizontal Illumination



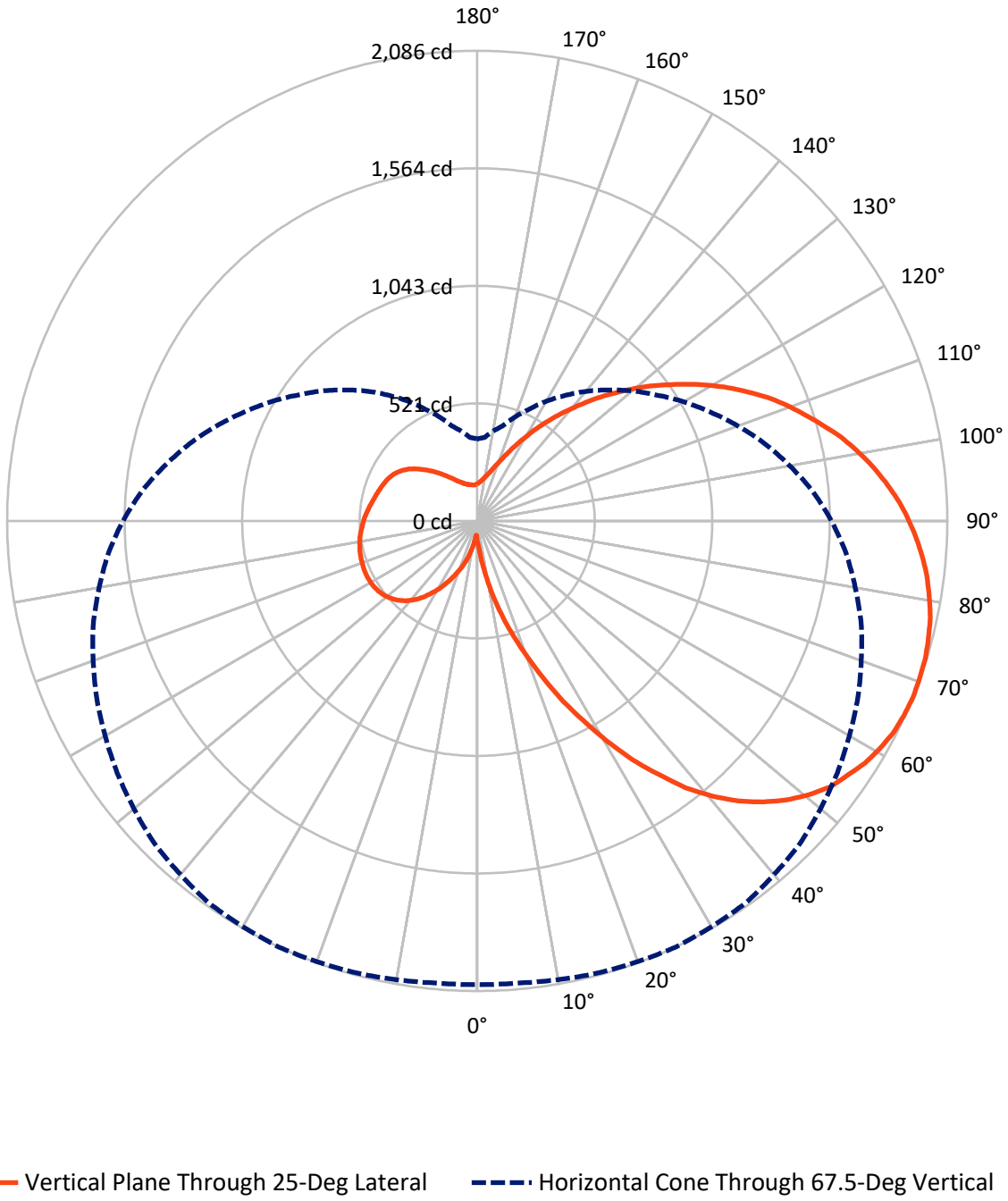

Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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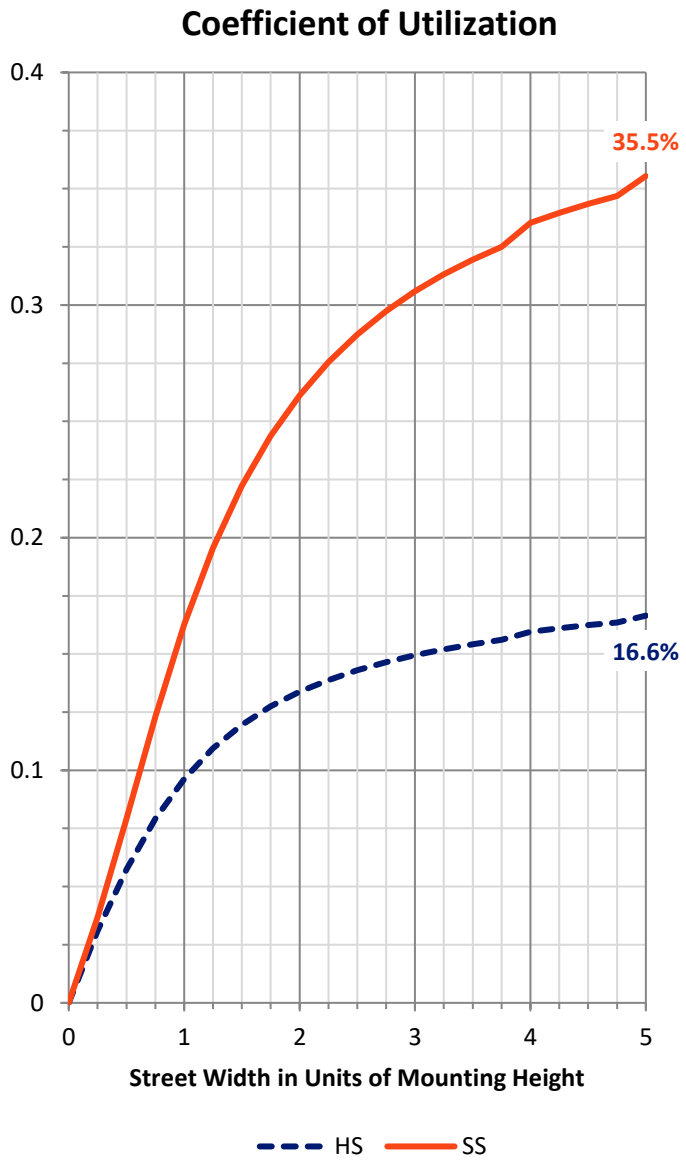
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2328.5 | 1779.8 | 4108.3 |
| | % Fixture | 18.3 | 14.0 | 32.3 |
| **Street Side** | Lumens | 5145.1 | 3461.0 | 8606.1 |
| | % Fixture | 40.5 | 27.2 | 67.7 |
| **Total** | Lumens | 7473.6 | 5240.9 | 12714.4 |
| | % Fixture | 58.8 | 41.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 13.9 | 0.1 |
| 10°-20° | 96.7 | 0.8 |
| 20°-30° | 289.6 | 2.3 |
| 30°-40° | 596.1 | 4.7 |
| 40°-50° | 930.7 | 7.3 |
| 50°-60° | 1205.4 | 9.5 |
| 60°-70° | 1389.9 | 10.9 |
| 70°-80° | 1478.8 | 11.6 |
| 80°-90° | 1472.4 | 11.6 |
| 90°-100° | 1373.6 | 10.8 |
| 100°-110° | 1200.7 | 9.4 |
| 110°-120° | 983.3 | 7.7 |
| 120°-130° | 731.2 | 5.8 |
| 130°-140° | 475.6 | 3.7 |
| 140°-150° | 269.4 | 2.1 |
| 150°-160° | 132.8 | 1.0 |
| 160°-170° | 58.0 | 0.5 |
| 170°-180° | 16.3 | 0.1 |
| 0°-90° | 7473.6 | 58.8 |
| 0°-180° | 12714.4 | 100.0 |



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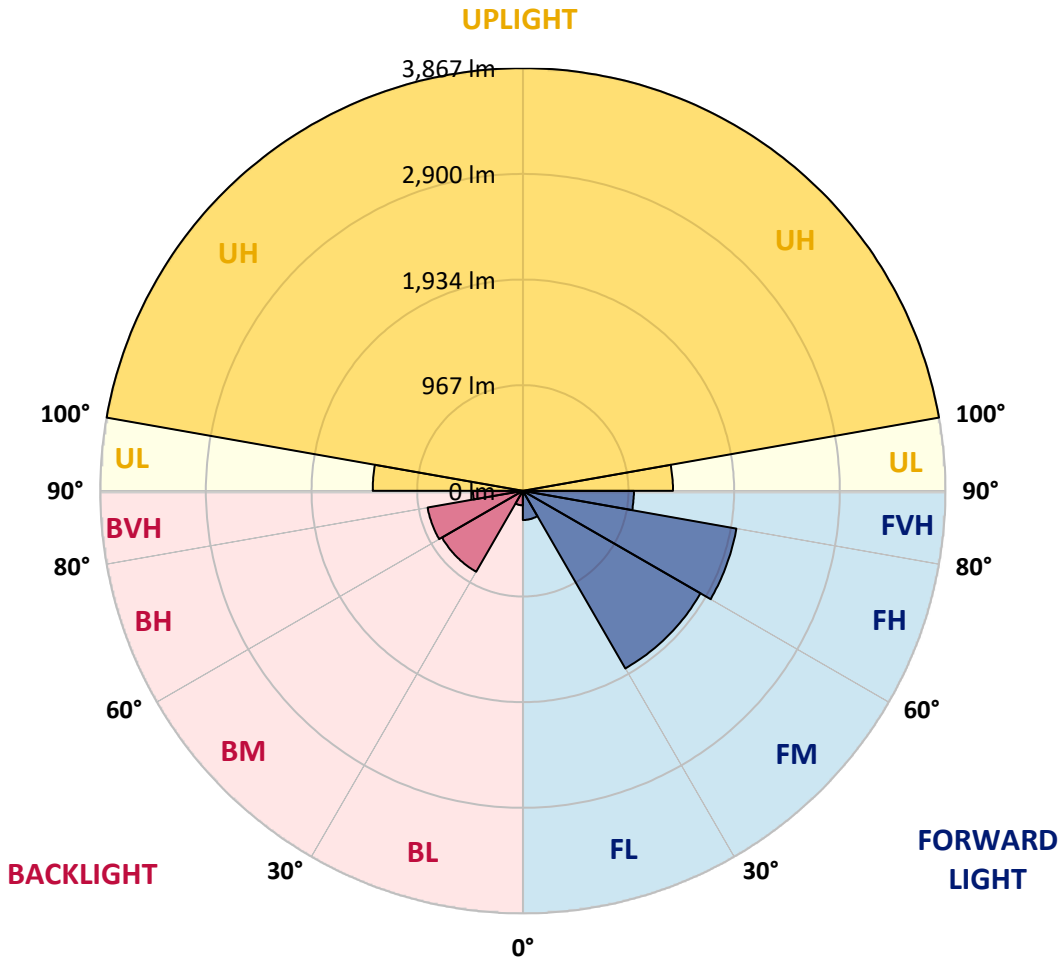
Scaled Data Report

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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 267.1 | 2.1 | | | |
| FM | (30°-60°) | 1877.3 | 14.8 | | | |
| FH | (60°-80°) | 1984.3 | 15.6 | | | G2/5000 |
| FVH | (80°-90°) | 1016.3 | 8.0 | | | G5 |
| BL | (0°-30°) | 133.2 | 1.0 | B1/500 | | |
| BM | (30°-60°) | 854.9 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 884.4 | 7.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 456.1 | 3.6 | | | G3/500 |
| UL | (90°-100°) | 1373.6 | 10.8 | | U5 | |
| UH | (100°-180°) | 3867.2 | 30.4 | | 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° | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |
| 2.5° | 109.8 | 109.8 | 110.6 | 110.6 | 109.0 | 109.8 | 108.2 | 105.7 | 104.1 | 100.1 | 98.5 |
| 5° | 159.8 | 157.4 | 158.2 | 156.6 | 153.4 | 151.7 | 145.3 | 140.4 | 132.4 | 123.5 | 119.5 |
| 7.5° | 222.0 | 222.8 | 219.5 | 215.5 | 214.7 | 205.8 | 204.2 | 188.9 | 182.4 | 167.1 | 163.0 |
| 10° | 298.6 | 297.0 | 293.8 | 293.0 | 285.7 | 276.8 | 263.1 | 255.0 | 234.1 | 222.8 | 213.9 |
| 12.5° | 382.6 | 383.4 | 377.7 | 372.1 | 365.6 | 353.5 | 334.9 | 322.0 | 305.1 | 281.7 | 270.4 |
| 15° | 473.0 | 469.7 | 469.7 | 463.3 | 453.6 | 439.9 | 425.3 | 406.8 | 382.6 | 357.5 | 341.4 |
| 17.5° | 556.9 | 563.4 | 560.9 | 552.9 | 544.0 | 527.0 | 511.7 | 485.9 | 459.2 | 431.8 | 411.6 |
| 20° | 661.8 | 663.4 | 659.4 | 652.1 | 644.1 | 624.7 | 606.1 | 580.3 | 547.2 | 504.4 | 487.5 |
| 22.5° | 767.6 | 770.8 | 770.8 | 766.8 | 755.5 | 738.5 | 708.6 | 680.4 | 639.2 | 596.5 | 568.2 |
| 25° | 889.4 | 887.0 | 889.4 | 887.0 | 868.4 | 853.1 | 822.4 | 788.5 | 744.2 | 691.7 | 657.8 |
| 27.5° | 1012.1 | 1015.3 | 1008.9 | 1003.2 | 996.0 | 971.8 | 938.7 | 895.9 | 840.2 | 785.3 | 749.0 |
| 30° | 1131.6 | 1138.8 | 1138.8 | 1132.4 | 1121.1 | 1096.9 | 1059.7 | 1013.7 | 952.4 | 883.0 | 840.2 |
| 32.5° | 1256.7 | 1259.1 | 1262.3 | 1261.5 | 1248.6 | 1225.2 | 1184.0 | 1121.9 | 1053.3 | 976.6 | 934.6 |
| 35° | 1389.0 | 1381.8 | 1383.4 | 1378.5 | 1372.9 | 1343.8 | 1296.2 | 1236.5 | 1162.2 | 1076.7 | 1025.8 |
| 37.5° | 1498.8 | 1495.6 | 1498.0 | 1502.0 | 1486.7 | 1456.8 | 1401.9 | 1332.5 | 1251.0 | 1161.4 | 1110.6 |
| 40° | 1602.9 | 1600.5 | 1604.5 | 1605.3 | 1590.0 | 1555.3 | 1497.2 | 1430.2 | 1342.2 | 1238.9 | 1191.3 |
| 42.5° | 1690.1 | 1690.1 | 1694.1 | 1699.0 | 1682.8 | 1645.7 | 1586.8 | 1506.9 | 1416.5 | 1312.4 | 1254.2 |
| 45° | 1770.8 | 1768.4 | 1776.4 | 1778.9 | 1762.7 | 1725.6 | 1659.4 | 1578.7 | 1481.8 | 1376.1 | 1315.6 |
| 47.5° | 1835.4 | 1836.2 | 1844.2 | 1849.1 | 1834.6 | 1792.6 | 1725.6 | 1640.0 | 1539.2 | 1428.6 | 1366.4 |
| 50° | 1888.6 | 1895.9 | 1903.2 | 1908.8 | 1893.5 | 1851.5 | 1782.1 | 1689.3 | 1588.4 | 1477.0 | 1412.4 |
| 52.5° | 1941.9 | 1941.9 | 1953.2 | 1960.5 | 1943.5 | 1899.9 | 1827.3 | 1736.9 | 1633.6 | 1515.7 | 1452.8 |
| 55° | 1975.8 | 1976.6 | 1990.3 | 1992.7 | 1982.3 | 1937.1 | 1862.8 | 1772.4 | 1669.1 | 1550.5 | 1483.5 |
| 57.5° | 2005.7 | 2006.5 | 2021.8 | 2027.5 | 2012.9 | 1969.3 | 1893.5 | 1799.8 | 1699.0 | 1577.9 | 1510.1 |
| 60° | 2031.5 | 2030.7 | 2043.6 | 2051.7 | 2037.1 | 1991.1 | 1916.9 | 1825.7 | 1722.4 | 1602.9 | 1532.7 |
| 62.5° | 2047.6 | 2047.6 | 2063.0 | 2071.0 | 2055.7 | 2010.5 | 1934.6 | 1844.2 | 1740.9 | 1619.9 | 1550.5 |
| 65° | 2054.9 | 2056.5 | 2071.0 | 2080.7 | 2066.2 | 2020.2 | 1944.3 | 1855.5 | 1753.8 | 1633.6 | 1563.4 |
| 67.5° | 2057.3 | 2058.1 | 2075.9 | 2085.6 | 2071.8 | 2025.0 | 1950.0 | 1862.8 | 1763.5 | 1642.5 | 1571.4 |
| 70° | 2058.9 | 2059.7 | 2073.5 | 2083.1 | 2071.0 | 2024.2 | 1951.6 | 1866.0 | 1769.2 | 1647.3 | 1576.3 |
| 72.5° | 2050.1 | 2052.5 | 2067.8 | 2079.1 | 2064.6 | 2018.6 | 1947.5 | 1866.0 | 1768.4 | 1650.5 | 1577.9 |
| 75° | 2038.8 | 2044.4 | 2058.1 | 2067.8 | 2054.9 | 2010.5 | 1941.1 | 1862.8 | 1767.6 | 1648.9 | 1577.9 |
| 77.5° | 2027.5 | 2028.3 | 2046.0 | 2054.9 | 2041.2 | 1996.0 | 1929.8 | 1854.7 | 1762.7 | 1644.1 | 1572.2 |
| 80° | 2004.9 | 2009.7 | 2025.0 | 2033.1 | 2021.0 | 1978.2 | 1913.7 | 1843.4 | 1753.8 | 1636.0 | 1563.4 |
| 82.5° | 1988.7 | 1987.1 | 2002.4 | 2009.7 | 1997.6 | 1953.2 | 1895.1 | 1825.7 | 1740.9 | 1622.3 | 1551.3 |
| 85° | 1958.0 | 1961.3 | 1973.4 | 1979.8 | 1966.1 | 1925.8 | 1870.1 | 1807.9 | 1723.2 | 1606.9 | 1535.1 |
| 87.5° | 1929.0 | 1930.6 | 1938.7 | 1945.9 | 1932.2 | 1893.5 | 1841.8 | 1782.9 | 1701.4 | 1587.6 | 1517.4 |
| 90° | 1892.7 | 1893.5 | 1902.4 | 1908.0 | 1895.9 | 1859.6 | 1812.0 | 1754.6 | 1678.0 | 1565.8 | 1495.6 |
| 92.5° | 1858.8 | 1857.2 | 1863.6 | 1866.0 | 1855.5 | 1820.0 | 1777.2 | 1724.0 | 1649.7 | 1539.2 | 1471.4 |
| 95° | 1814.4 | 1813.6 | 1819.2 | 1817.6 | 1806.3 | 1775.6 | 1736.9 | 1690.1 | 1616.6 | 1510.9 | 1443.9 |
| 97.5° | 1765.1 | 1765.9 | 1769.2 | 1767.6 | 1755.5 | 1727.2 | 1697.3 | 1650.5 | 1582.7 | 1477.8 | 1413.2 |
| 100° | 1710.3 | 1712.7 | 1717.5 | 1712.7 | 1702.2 | 1681.2 | 1649.7 | 1611.0 | 1544.0 | 1444.7 | 1381.0 |
| 102.5° | 1664.3 | 1657.8 | 1656.2 | 1655.4 | 1644.9 | 1626.3 | 1602.1 | 1568.2 | 1506.1 | 1408.4 | 1347.1 |
| 105° | 1603.7 | 1599.7 | 1598.9 | 1590.0 | 1586.0 | 1570.6 | 1550.5 | 1519.8 | 1464.1 | 1372.1 | 1312.4 |
| 107.5° | 1540.0 | 1540.8 | 1537.5 | 1527.0 | 1521.4 | 1510.9 | 1499.6 | 1472.2 | 1418.9 | 1331.7 | 1276.8 |
| 110° | 1482.7 | 1478.6 | 1469.7 | 1464.9 | 1460.9 | 1452.0 | 1444.7 | 1423.7 | 1374.5 | 1293.0 | 1238.1 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 1411.6 | 1414.1 | 1403.6 | *1400.3* | 1393.9 | 1393.1 | 1388.2 | 1371.3 | 1327.7 | 1251.8 | 1200.2 |
| 115° | 1347.9 | 1346.3 | 1335.8 | *1329.3* | 1326.9 | 1328.5 | 1331.7 | 1319.6 | 1279.3 | 1207.4 | 1159.8 |
| 117.5° | 1277.6 | 1272.8 | 1265.5 | *1259.1* | 1255.9 | 1262.3 | 1269.6 | 1263.9 | 1230.0 | 1162.2 | 1117.0 |
| 120° | 1202.6 | 1203.4 | 1192.9 | *1186.4* | 1187.3 | 1197.7 | 1207.4 | 1204.2 | 1171.9 | 1111.4 | 1071.0 |
| 122.5° | 1132.4 | 1128.3 | 1119.5 | *1113.0* | 1118.6 | 1129.9 | 1141.2 | 1140.4 | 1112.2 | 1053.3 | 1017.0 |
| 125° | 1055.7 | 1054.9 | 1046.0 | *1039.6* | 1044.4 | 1057.3 | 1071.0 | 1072.6 | 1046.0 | 996.8 | 960.5 |
| 127.5° | 983.1 | 980.6 | 979.0 | *971.8* | 975.0 | 992.7 | 1002.4 | 1001.6 | 978.2 | 933.0 | 901.5 |
| 130° | 913.6 | 912.8 | 903.2 | *899.9* | 904.0 | 918.5 | 928.2 | 926.6 | 908.0 | 868.4 | 840.2 |
| 132.5° | 843.4 | 840.2 | 836.2 | *831.3* | 834.5 | 846.7 | 859.6 | 858.0 | 836.2 | 798.2 | 775.6 |
| 135° | 774.0 | 771.6 | 768.4 | *765.1* | 767.6 | 779.7 | 791.0 | 787.7 | 769.2 | 735.3 | 712.7 |
| 137.5° | 710.3 | 707.8 | 703.8 | *699.8* | 703.0 | 712.7 | 719.9 | 717.5 | 702.2 | 669.9 | 648.1 |
| 140° | 644.1 | 645.7 | 640.8 | *637.6* | 639.2 | 648.9 | 654.6 | 651.3 | 634.4 | 607.8 | 590.0 |
| 142.5° | 583.5 | 583.5 | 581.1 | *580.3* | 582.7 | 587.6 | 592.4 | 586.0 | 574.7 | 547.2 | 532.7 |
| 145° | 525.4 | 526.2 | 525.4 | *523.8* | 524.6 | 530.3 | 531.1 | 528.7 | 515.7 | 495.6 | 479.4 |
| 147.5° | 470.5 | 473.0 | 471.4 | *471.4* | 472.2 | 474.6 | 477.8 | 472.2 | 460.9 | 443.1 | 431.8 |
| 150° | 419.7 | 421.3 | 421.3 | *419.7* | 419.7 | 422.9 | 422.9 | 418.9 | 410.0 | 395.5 | 385.0 |
| 152.5° | 375.3 | 376.1 | 376.1 | *374.5* | 375.3 | 376.1 | 374.5 | 369.7 | 362.4 | 351.1 | 343.0 |
| 155° | 334.9 | 336.6 | 334.1 | *334.9* | 332.5 | 333.3 | 332.5 | 329.3 | 321.2 | 311.5 | 306.7 |
| 157.5° | 298.6 | 301.1 | 299.4 | *299.4* | 297.8 | 297.0 | 296.2 | 293.0 | 287.3 | 279.3 | 273.6 |
| 160° | 269.6 | 271.2 | 268.8 | *268.8* | 267.2 | 267.2 | 263.9 | 262.3 | 256.7 | 249.4 | 246.2 |
| 162.5° | 244.6 | 244.6 | 243.7 | *244.6* | 243.7 | 241.3 | 239.7 | 236.5 | 231.6 | 226.0 | 223.6 |
| 165° | 224.4 | 223.6 | 223.6 | *222.8* | 222.0 | 220.3 | 217.9 | 216.3 | 211.5 | 206.6 | 205.0 |
| 167.5° | 209.0 | 208.2 | 207.4 | *206.6* | 205.0 | 204.2 | 201.8 | 200.2 | 196.1 | 192.1 | 190.5 |
| 170° | 196.1 | 196.1 | 194.5 | *193.7* | 192.9 | 191.3 | 188.9 | 186.4 | 183.2 | 180.8 | 179.2 |
| 172.5° | 184.8 | 184.8 | 184.0 | *183.2* | 182.4 | 180.8 | 178.4 | 176.8 | 174.3 | 171.9 | 170.3 |
| 175° | 176.8 | 176.8 | 175.9 | *174.3* | 173.5 | 171.9 | 170.3 | 168.7 | 166.3 | 164.6 | 163.8 |
| 177.5° | 170.3 | 170.3 | 170.3 | *168.7* | 167.9 | 166.3 | 164.6 | 163.0 | 162.2 | 160.6 | 160.6 |
| 180° | 162.2 | 162.2 | 162.2 | *162.2* | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |
| 2.5° | 96.0 | 91.2 | 87.2 | 80.7 | 75.1 | 70.2 | 67.0 | 64.6 | 63.0 | 61.3 |
| 5° | 114.6 | 105.7 | 96.9 | 87.2 | 78.3 | 70.2 | 63.8 | 58.9 | 56.5 | 56.5 |
| 7.5° | 156.6 | 142.9 | 127.5 | 113.8 | 103.3 | 92.8 | 83.1 | 77.5 | 74.3 | 72.6 |
| 10° | 205.0 | 184.8 | 169.5 | 152.5 | 134.0 | 121.1 | 109.8 | 102.5 | 98.5 | 99.3 |
| 12.5° | 263.1 | 238.1 | 218.7 | 193.7 | 173.5 | 153.4 | 141.2 | 130.8 | 125.9 | 125.1 |
| 15° | 327.7 | 298.6 | 270.4 | 240.5 | 213.9 | 190.5 | 172.7 | 159.0 | 150.9 | 150.1 |
| 17.5° | 395.5 | 359.2 | 321.2 | 287.3 | 252.6 | 223.6 | 199.4 | 183.2 | 174.3 | 174.3 |
| 20° | 464.1 | 422.9 | 378.5 | 334.1 | 292.2 | 256.7 | 228.4 | 207.4 | 196.1 | 194.5 |
| 22.5° | 543.2 | 490.7 | 437.5 | 383.4 | 335.8 | 291.4 | 255.0 | 230.0 | 217.9 | 215.5 |
| 25° | 629.5 | 567.4 | 503.6 | 439.9 | 381.0 | 327.7 | 285.7 | 257.5 | 240.5 | 238.1 |
| 27.5° | 719.1 | 644.1 | 569.0 | 494.8 | 426.2 | 367.2 | 316.4 | 280.1 | 263.1 | 260.7 |
| 30° | 807.1 | 724.8 | 637.6 | 550.4 | 473.0 | 405.2 | 347.1 | 305.1 | 284.1 | 280.9 |
| 32.5° | 893.5 | 799.8 | 703.8 | 606.9 | 522.2 | 443.1 | 375.3 | 330.1 | 304.3 | 301.1 |
| 35° | 975.8 | 878.9 | 766.8 | 662.6 | 565.8 | 481.0 | 405.2 | 352.7 | 323.6 | 320.4 |
| 37.5° | 1056.5 | 946.7 | 828.9 | 714.3 | 609.4 | 513.3 | 432.6 | 373.7 | 341.4 | 338.2 |
| 40° | 1133.2 | 1011.3 | 883.0 | 761.9 | 647.3 | 545.6 | 456.0 | 392.3 | 355.9 | 351.9 |
| 42.5° | 1192.1 | 1067.0 | 933.0 | 802.3 | 680.4 | 569.8 | 477.0 | 406.8 | 367.2 | 361.6 |
| 45° | 1251.0 | 1117.0 | 975.8 | 837.8 | 709.4 | 593.2 | 493.9 | 419.7 | 377.7 | 371.3 |
| 47.5° | 1299.4 | 1159.8 | 1010.5 | 866.8 | 733.7 | 613.4 | 508.5 | 428.6 | 384.2 | 377.7 |
| 50° | 1345.4 | 1197.7 | 1042.8 | 893.5 | 755.5 | 631.2 | 520.6 | 435.8 | 388.2 | 381.8 |
| 52.5° | 1381.0 | 1229.2 | 1068.6 | 914.5 | 773.2 | 644.1 | 530.3 | 440.7 | 390.6 | 383.4 |
| 55° | 1410.8 | 1255.1 | 1089.6 | 930.6 | 786.9 | 655.4 | 537.5 | 443.1 | 390.6 | 383.4 |
| 57.5° | 1435.8 | 1275.2 | 1106.5 | 945.1 | 797.4 | 662.6 | 542.4 | 443.9 | 388.2 | 381.0 |
| 60° | 1457.6 | 1293.8 | 1120.3 | 956.4 | 807.1 | 669.9 | 545.6 | 443.9 | 385.8 | 377.7 |
| 62.5° | 1475.4 | 1306.7 | 1130.8 | 965.3 | 814.4 | 675.5 | 547.2 | 442.3 | 381.0 | 372.9 |
| 65° | 1485.9 | 1315.6 | 1137.2 | 970.1 | 818.4 | 677.2 | 547.2 | 439.9 | 376.1 | 368.0 |
| 67.5° | *1494.8* | *1321.2* | *1141.2* | *972.6* | *820.8* | *678.8* | *546.4* | *435.8* | *371.3* | *363.2* |
| 70° | 1498.8 | 1323.7 | 1142.9 | 974.2 | 822.4 | 678.0 | 544.0 | 432.6 | 366.4 | 356.7 |
| 72.5° | 1499.6 | 1324.5 | 1142.1 | 974.2 | 822.4 | 678.0 | 541.6 | 427.8 | 360.8 | 351.9 |
| 75° | 1498.0 | 1322.0 | 1139.6 | 973.4 | 821.6 | 675.5 | 539.1 | 423.7 | 355.9 | 346.2 |
| 77.5° | 1493.1 | 1317.2 | 1135.6 | 970.1 | 817.6 | 673.1 | 534.3 | 418.9 | 350.3 | 341.4 |
| 80° | 1485.1 | 1309.1 | 1129.1 | 964.5 | 812.8 | 668.3 | 530.3 | 414.0 | 345.4 | 336.6 |
| 82.5° | 1473.0 | 1298.6 | 1121.1 | 957.2 | 807.9 | 662.6 | 525.4 | 409.2 | 340.6 | 331.7 |
| 85° | 1458.4 | 1285.7 | 1109.0 | 948.4 | 800.6 | 656.2 | 519.0 | 403.6 | 335.8 | 326.9 |
| 87.5° | 1438.3 | 1269.6 | 1096.1 | 937.9 | 791.0 | 648.1 | 511.7 | 398.7 | 331.7 | 322.8 |
| 90° | 1418.9 | 1251.8 | 1082.3 | 926.6 | 782.1 | 640.8 | 505.2 | 393.1 | 328.5 | 319.6 |
| 92.5° | 1396.3 | 1230.8 | 1065.4 | 913.6 | 770.0 | 631.2 | 498.8 | 388.2 | 325.3 | 317.2 |
| 95° | 1370.5 | 1208.2 | 1047.6 | 898.3 | 758.7 | 621.5 | 490.7 | 383.4 | 322.0 | 314.8 |
| 97.5° | 1341.4 | 1184.0 | 1028.3 | 882.2 | 745.0 | 611.0 | 483.5 | 379.3 | 320.4 | 312.4 |
| 100° | 1311.5 | 1156.6 | 1007.3 | 866.0 | 731.2 | 599.7 | 476.2 | 375.3 | 319.6 | 312.4 |
| 102.5° | 1277.6 | 1131.6 | 986.3 | 849.9 | 717.5 | 589.2 | 468.9 | 372.9 | 319.6 | 312.4 |
| 105° | 1245.4 | 1102.5 | 963.7 | 832.1 | 703.8 | 578.7 | 462.5 | 371.3 | 320.4 | 314.0 |
| 107.5° | 1210.7 | 1075.1 | 941.1 | 813.6 | 688.5 | 568.2 | 456.8 | 369.7 | 322.0 | 315.6 |
| 110° | 1178.4 | 1048.4 | 920.1 | 795.8 | 674.7 | 558.5 | 451.2 | 368.8 | 323.6 | 318.0 |

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

Scaled Data Report

REPORT NUMBER: P1223997
CATALOG NUMBER: FFX-CLB-80-740-U-VM8-T4

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 1142.9 | 1019.4 | 896.7 | 776.4 | 660.2 | 547.2 | 445.5 | 367.2 | 325.3 | 320.4 |
| 115° | 1105.7 | 988.7 | 873.3 | 757.1 | 643.3 | 536.7 | 439.9 | 366.4 | 326.9 | 322.0 |
| 117.5° | 1065.4 | 955.6 | 845.0 | 734.5 | 625.5 | 523.8 | 431.8 | 363.2 | 326.9 | 322.0 |
| 120° | 1021.8 | 920.9 | 814.4 | 710.3 | 605.3 | 508.5 | 423.7 | 359.2 | 325.3 | 321.2 |
| 122.5° | 974.2 | 879.7 | 778.9 | 679.6 | 582.7 | 490.7 | 411.6 | 351.9 | 321.2 | 317.2 |
| 125° | 921.7 | 833.7 | 742.5 | 646.5 | 554.5 | 470.5 | 397.1 | 343.8 | 314.8 | 311.5 |
| 127.5° | 866.8 | 786.1 | 699.0 | 611.8 | 527.8 | 448.8 | 381.8 | 331.7 | 305.9 | 302.7 |
| 130° | 805.5 | 732.9 | 653.8 | 573.0 | 496.4 | 423.7 | 363.2 | 318.0 | 294.6 | 291.4 |
| 132.5° | 746.6 | 680.4 | 609.4 | 537.5 | 463.3 | 399.5 | 343.0 | 302.7 | 282.5 | 279.3 |
| 135° | 685.2 | 627.1 | 563.4 | 495.6 | 432.6 | 372.9 | 322.8 | 287.3 | 268.8 | 266.3 |
| 137.5° | 625.5 | 576.3 | 516.5 | 456.8 | 401.1 | 347.1 | 303.5 | 272.8 | 255.9 | 254.2 |
| 140° | 569.8 | 523.8 | 473.8 | 421.3 | 369.7 | 322.8 | 284.9 | 256.7 | 242.9 | 240.5 |
| 142.5° | 515.7 | 476.2 | 431.0 | 386.6 | 339.0 | 299.4 | 266.3 | 241.3 | 230.0 | 228.4 |
| 145° | 464.9 | 431.8 | 392.3 | 351.9 | 311.5 | 276.8 | 248.6 | 227.6 | 217.9 | 217.1 |
| 147.5° | 417.3 | 389.8 | 355.1 | 321.2 | 287.3 | 258.3 | 232.4 | 216.3 | 207.4 | 206.6 |
| 150° | 373.7 | 348.7 | 321.2 | 292.2 | 263.9 | 238.1 | 218.7 | 204.2 | 196.9 | 196.1 |
| 152.5° | 332.5 | 313.2 | 290.6 | 267.2 | 242.9 | 222.8 | 205.0 | 194.5 | 188.9 | 188.1 |
| 155° | 297.0 | 281.7 | 263.1 | 242.9 | 224.4 | 208.2 | 194.5 | 186.4 | 181.6 | 181.6 |
| 157.5° | 267.2 | 254.2 | 240.5 | 224.4 | 209.0 | 196.1 | 186.4 | 179.2 | 175.1 | 175.1 |
| 160° | 241.3 | 230.0 | 219.5 | 207.4 | 196.9 | 186.4 | 179.2 | 173.5 | 170.3 | 170.3 |
| 162.5° | 219.5 | 211.5 | 203.4 | 194.5 | 185.6 | 179.2 | 172.7 | 168.7 | 167.1 | 166.3 |
| 165° | 201.8 | 196.9 | 190.5 | 184.0 | 178.4 | 172.7 | 168.7 | 166.3 | 164.6 | 164.6 |
| 167.5° | 188.1 | 184.8 | 180.0 | 175.9 | 171.9 | 167.9 | 165.5 | 163.8 | 163.0 | 163.0 |
| 170° | 177.6 | 175.1 | 171.9 | 169.5 | 167.1 | 164.6 | 163.0 | 162.2 | 161.4 | 161.4 |
| 172.5° | 169.5 | 167.1 | 165.5 | 164.6 | 163.0 | 162.2 | 161.4 | 160.6 | 160.6 | 160.6 |
| 175° | 163.8 | 162.2 | 162.2 | 161.4 | 160.6 | 160.6 | 159.8 | 159.8 | 159.8 | 160.6 |
| 177.5° | 159.8 | 159.8 | 159.8 | 159.8 | 159.8 | 160.6 | 160.6 | 160.6 | 161.4 | 161.4 |
| 180° | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 | 162.2 |

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: SP1-2501-332-1

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

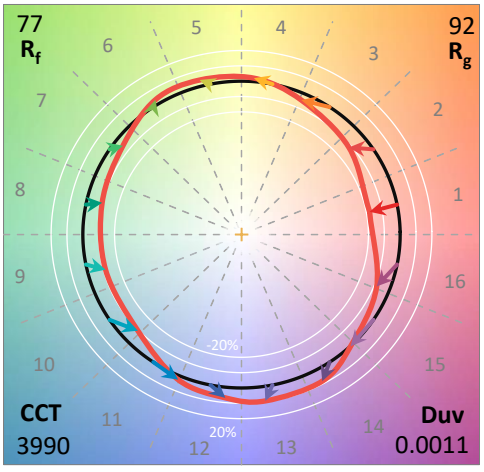
## Test Information

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

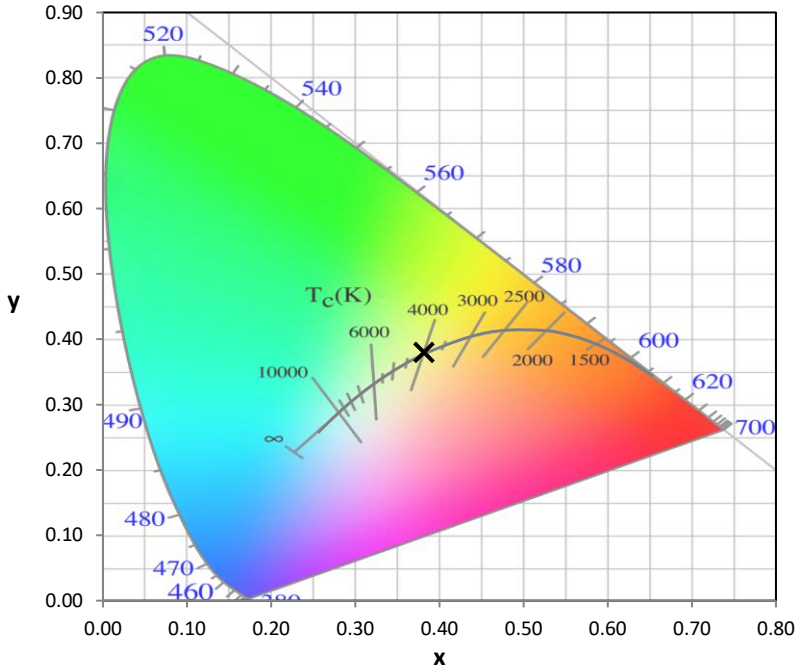
| | |
|---|---|
| Stabilization Time: | 70M |
| Operation Time: | 2H 10M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-1

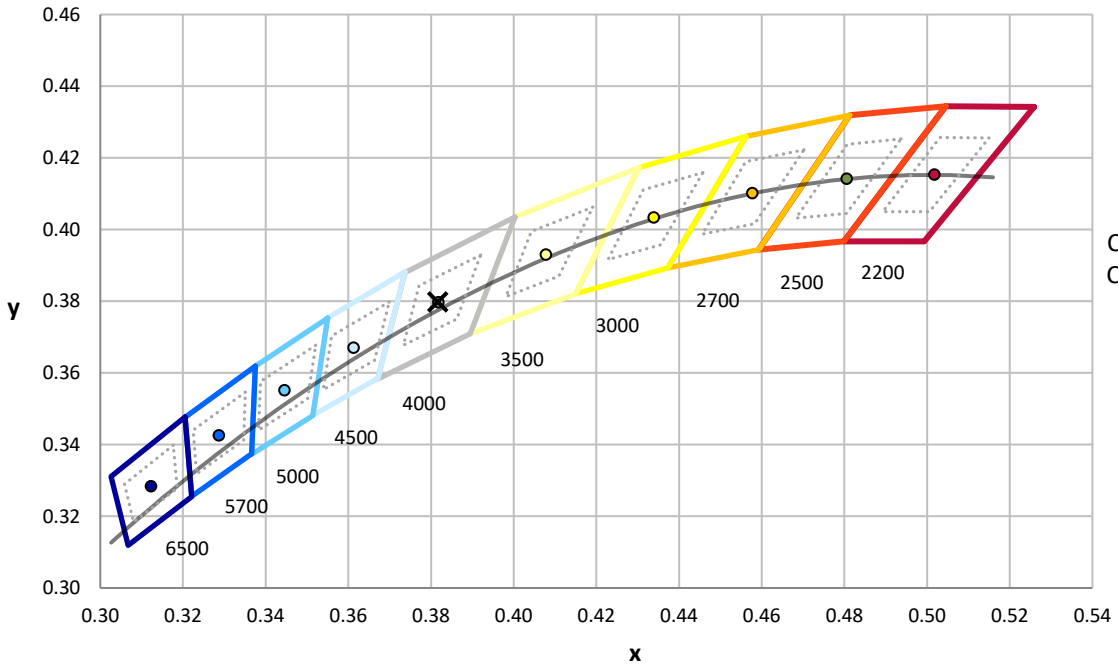
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

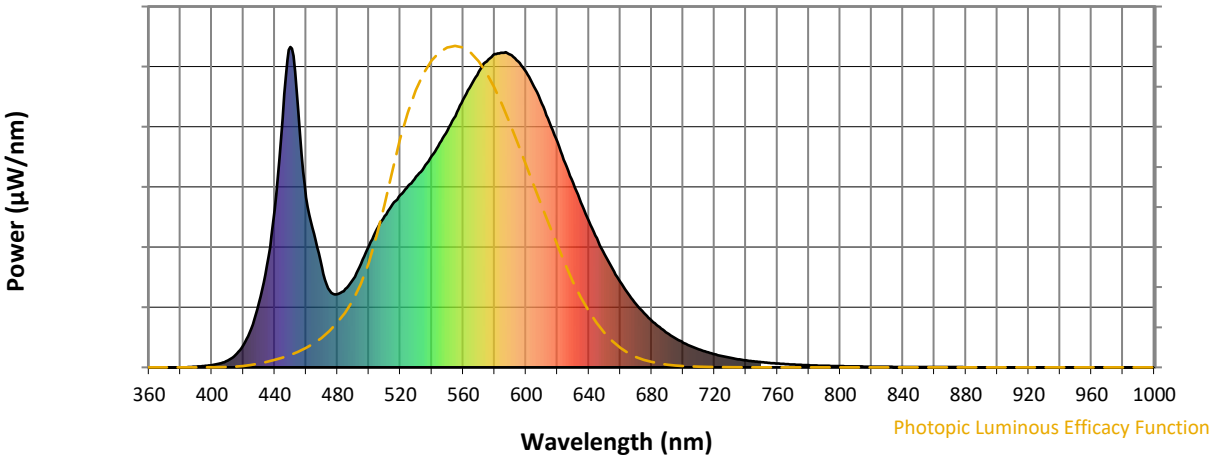



CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

## Photopic Flux vs. Wavelength

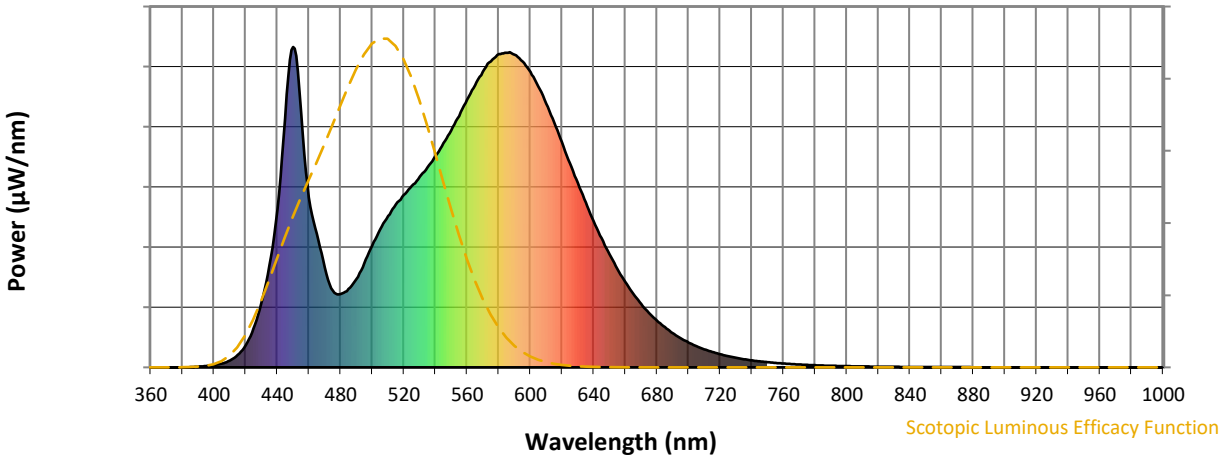



## Photopic Lumens: NR

| 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

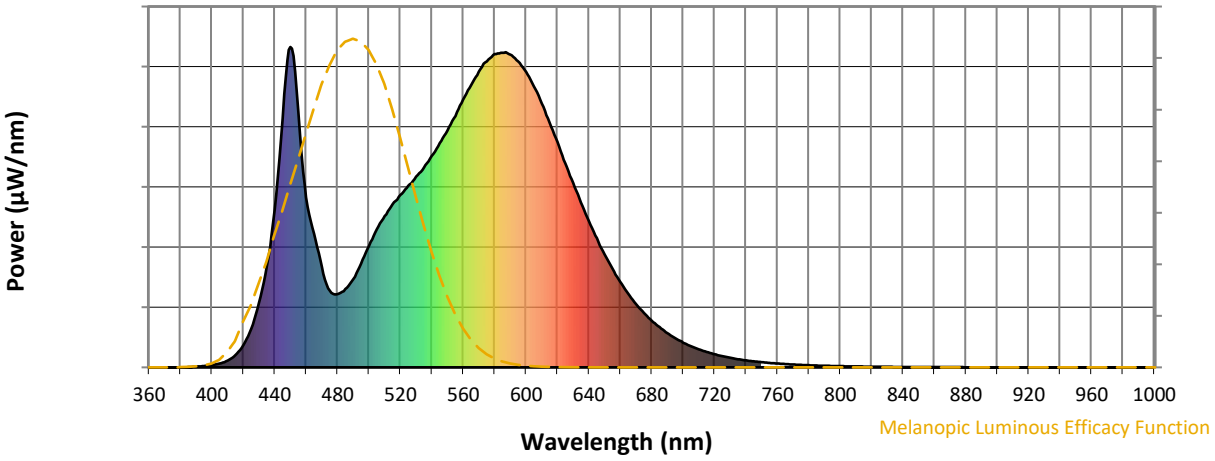



**Scotopic Lumens: NR** **S/P: 1.59**

| 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 | | | |

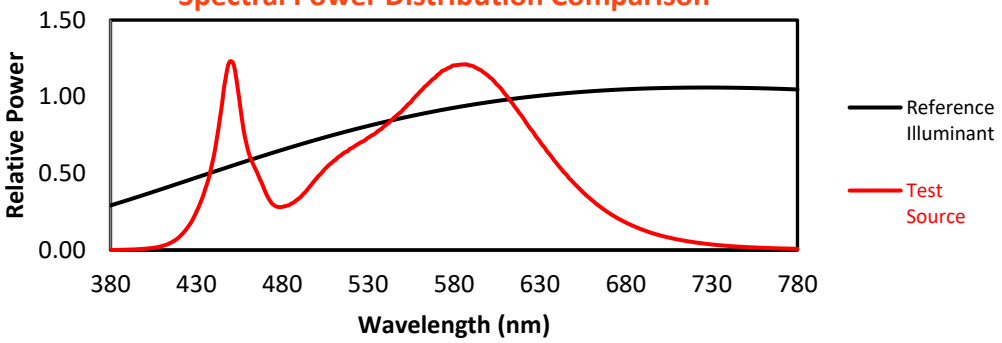
REPORT NUMBER: SP1-2501-332-1

# TM-30-18

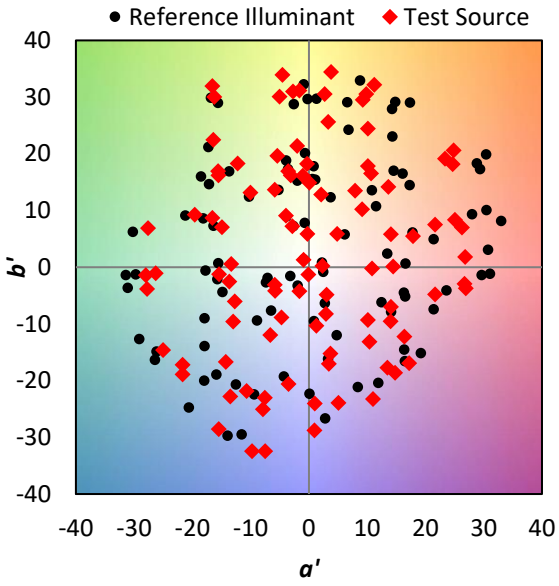
## Summary

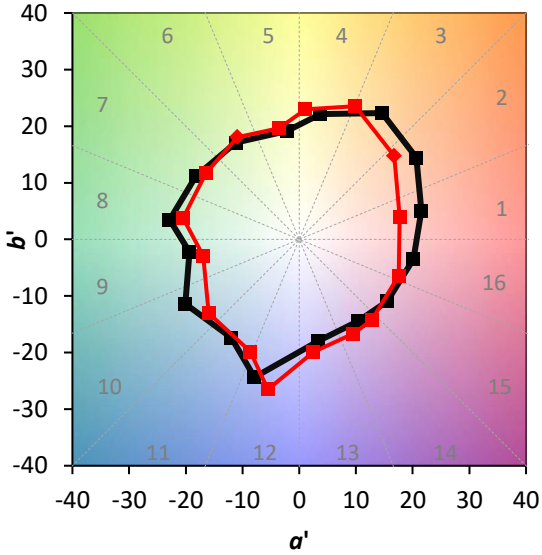
$R_f$ = 77.5
$R_g$ = 91.9
CIE $R_a$ = 73.9
$R_9$ = -36.4

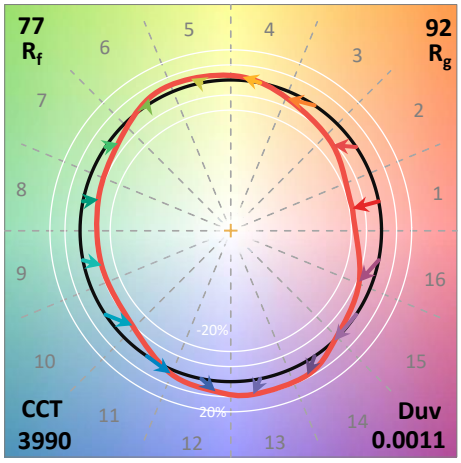
## Spectral Power Distribution Comparison

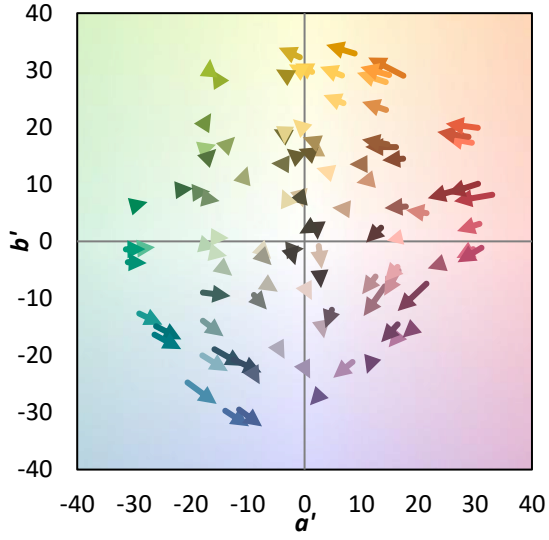



## Color Vector Graphics



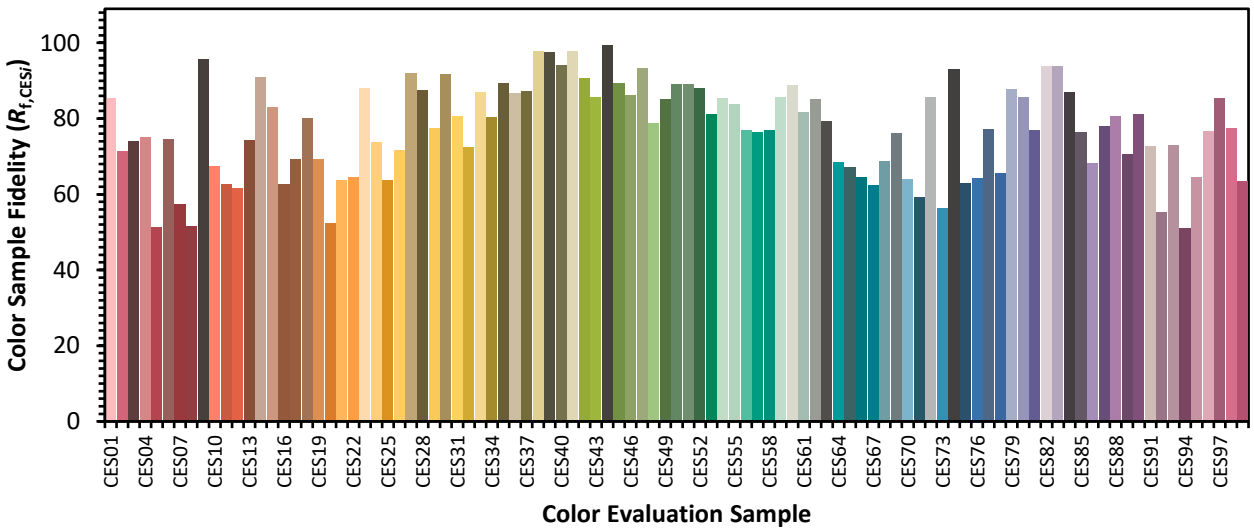



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**Individual Sample Fidelity Index ($R_{f,i}$)**

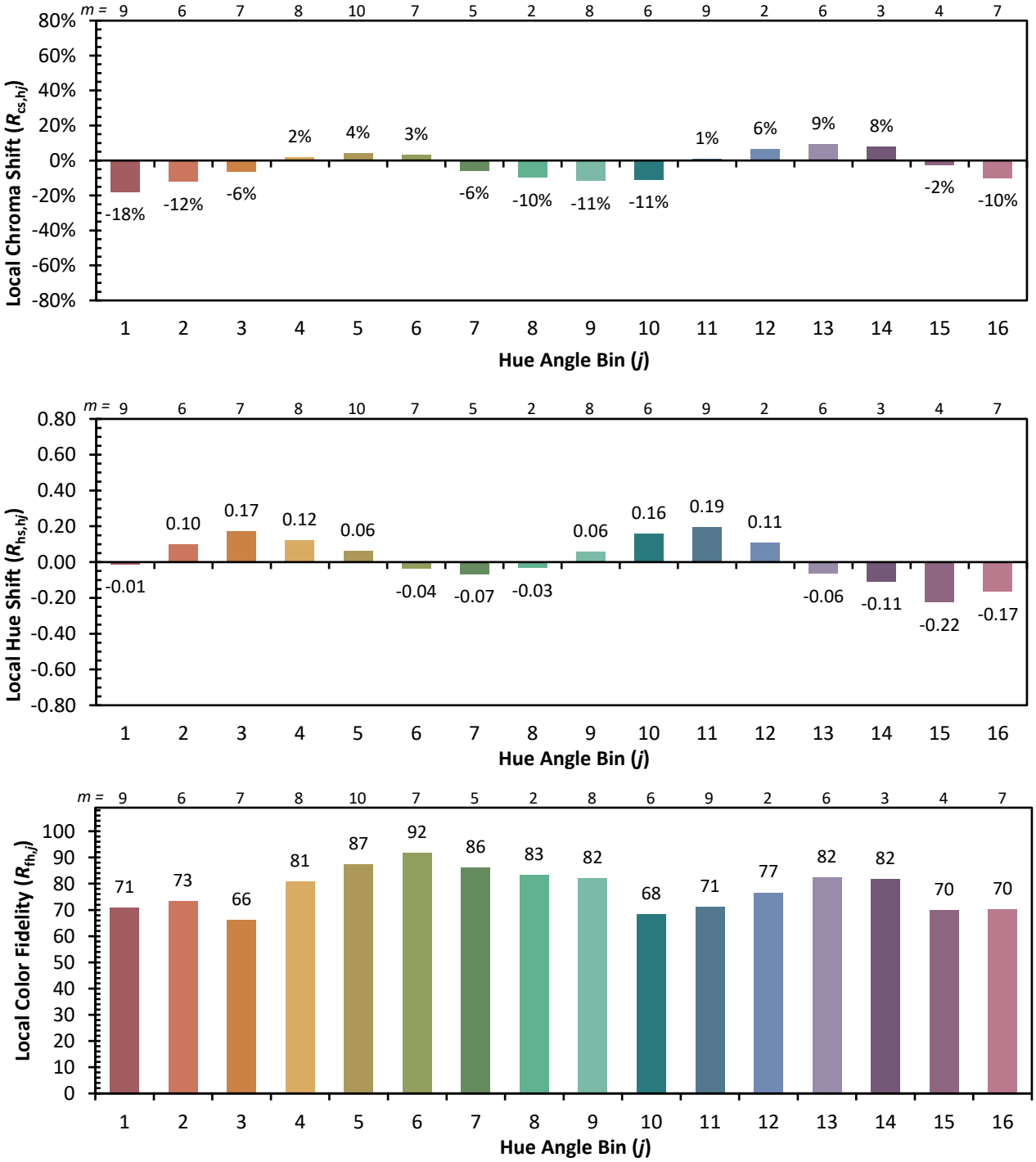
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 89 | CES76 = 64 |
| CES02 = 61 | CES27 = 92 | CES52 = 88 | CES77 = 77 |
| CES03 = 30 | CES28 = 88 | CES53 = 81 | CES78 = 65 |
| CES04 = 70 | CES29 = 78 | CES54 = 85 | CES79 = 88 |
| CES05 = 47 | CES30 = 92 | CES55 = 84 | CES80 = 86 |
| CES06 = 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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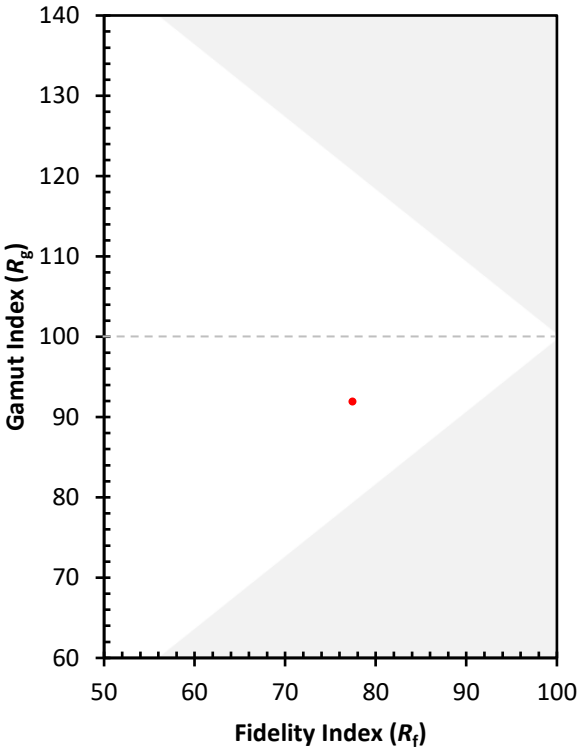
## Color Rendition by Hue-Angle Bin

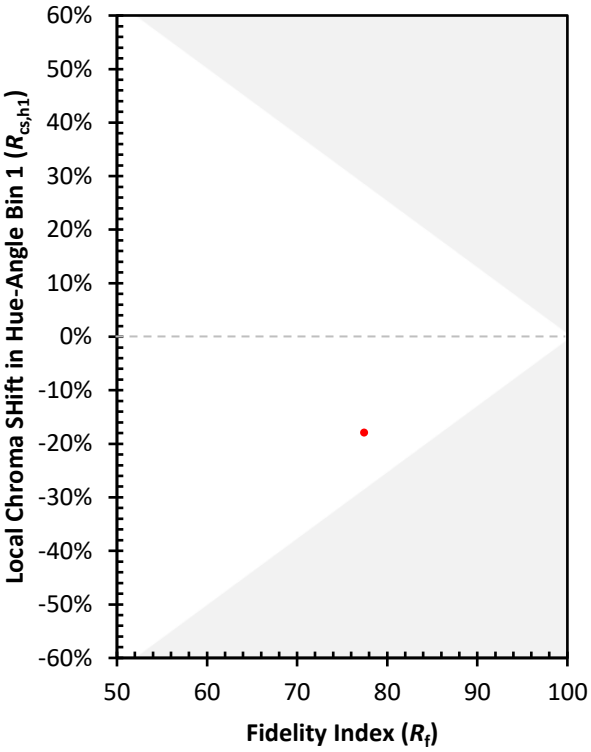


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## Measure Comparisons




(END OF REPORT)