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: P1224005

Luminaire Tested: **FFX-CLB-90-750-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1224005 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-90-750-U-VM8-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION |
| Light Source: | (6) 5000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 14337.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 158.3 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): | 90.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 5.42% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

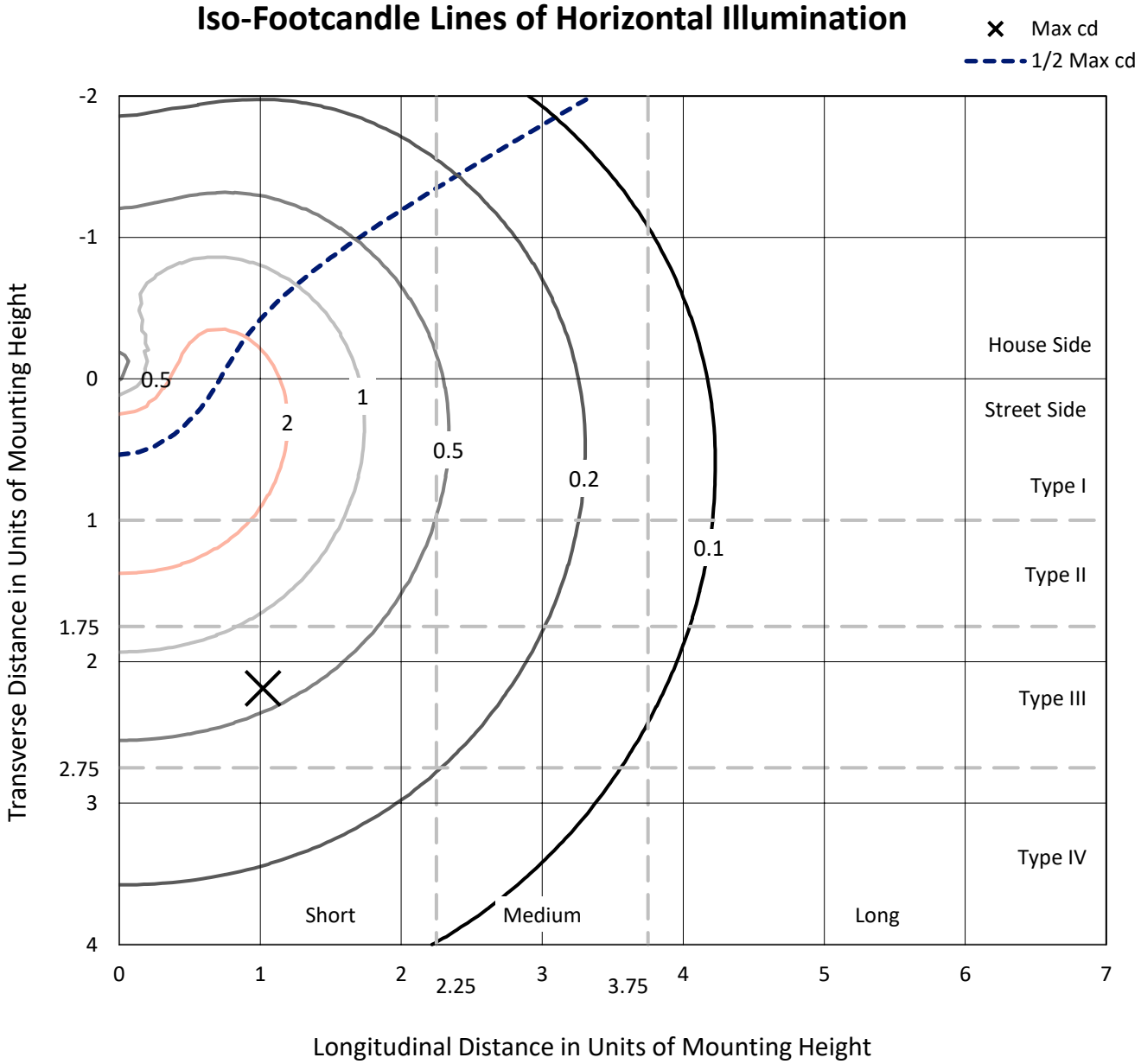


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REPORT NUMBER: P1224005
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## Iso-Footcandle Lines of Horizontal Illumination



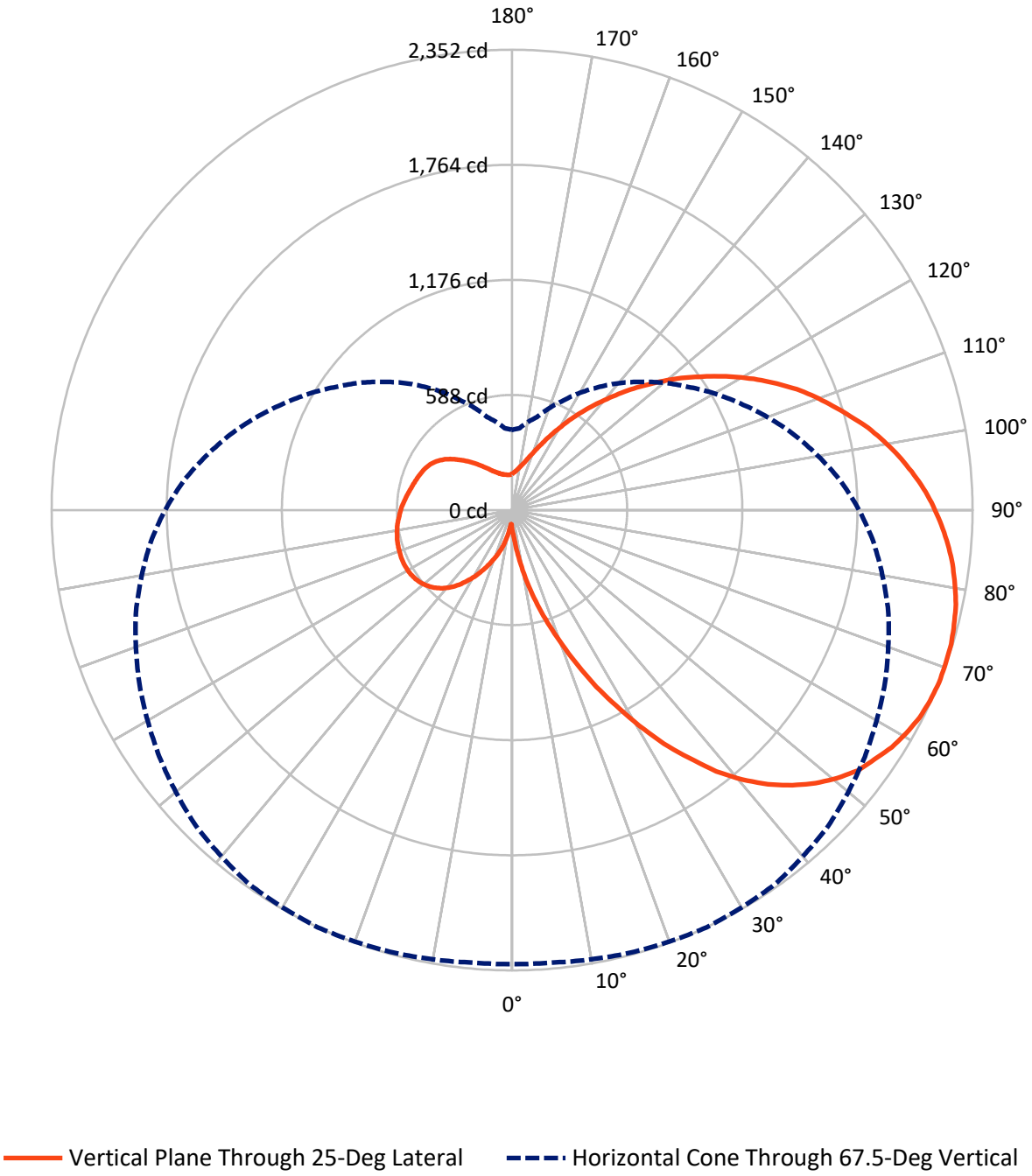

Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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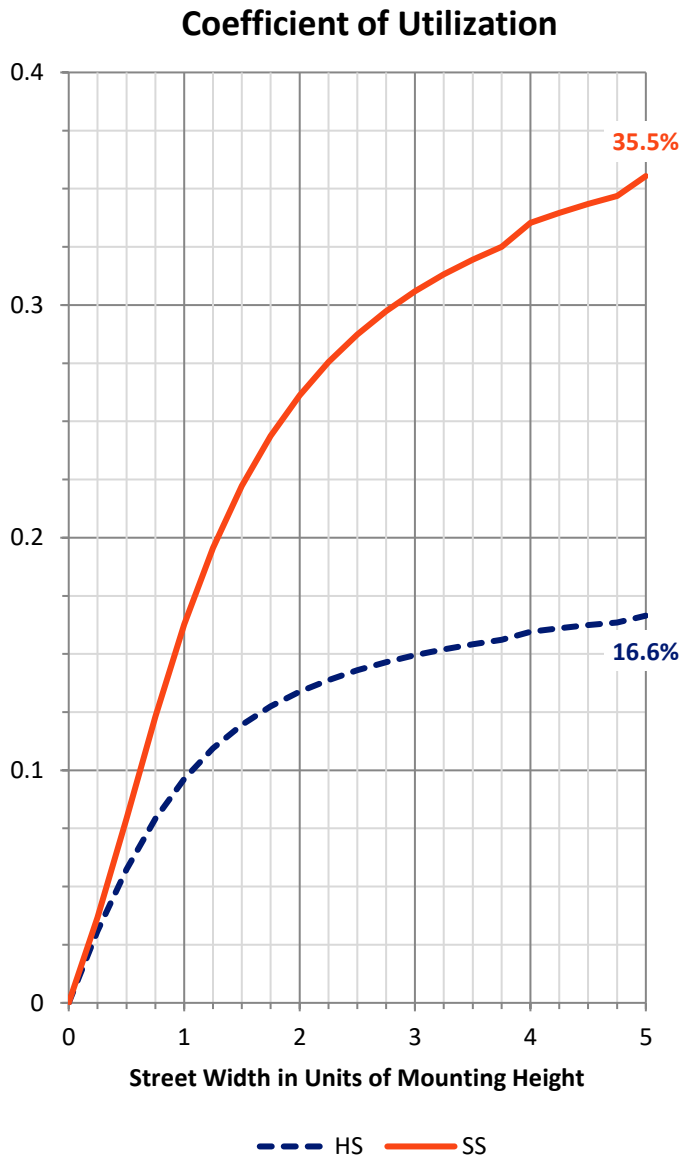
REPORT NUMBER: P1224005
CATALOG NUMBER: FFX-CLB-90-750-U-VM8-T4

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2625.7 | 2007.0 | 4632.8 |
| | % Fixture | 18.3 | 14.0 | 32.3 |
| **Street Side** | Lumens | 5801.9 | 3902.8 | 9704.7 |
| | % Fixture | 40.5 | 27.2 | 67.7 |
| **Total** | Lumens | 8427.6 | 5909.9 | 14337.5 |
| | % Fixture | 58.8 | 41.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 15.7 | 0.1 |
| 10°-20° | 109.1 | 0.8 |
| 20°-30° | 326.6 | 2.3 |
| 30°-40° | 672.1 | 4.7 |
| 40°-50° | 1049.5 | 7.3 |
| 50°-60° | 1359.3 | 9.5 |
| 60°-70° | 1567.3 | 10.9 |
| 70°-80° | 1667.6 | 11.6 |
| 80°-90° | 1660.4 | 11.6 |
| 90°-100° | 1549.0 | 10.8 |
| 100°-110° | 1354.0 | 9.4 |
| 110°-120° | 1108.8 | 7.7 |
| 120°-130° | 824.6 | 5.8 |
| 130°-140° | 536.3 | 3.7 |
| 140°-150° | 303.8 | 2.1 |
| 150°-160° | 149.7 | 1.0 |
| 160°-170° | 65.4 | 0.5 |
| 170°-180° | 18.4 | 0.1 |
| 0°-90° | 8427.6 | 58.8 |
| 0°-180° | 14337.5 | 100.0 |



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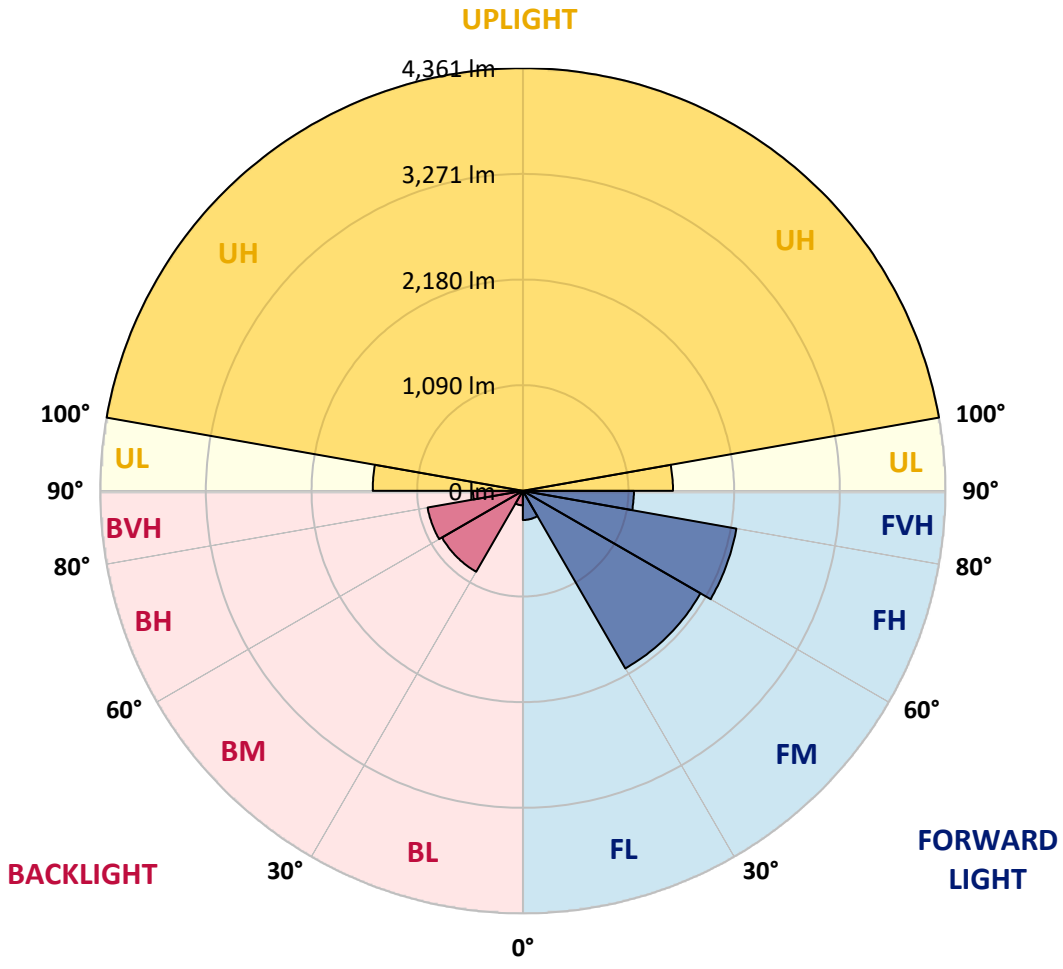
Scaled Data Report

REPORT NUMBER: P1224005
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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°) | 301.2 | 2.1 | | | |
| FM | (30°-60°) | 2116.9 | 14.8 | | | |
| FH | (60°-80°) | 2237.7 | 15.6 | | | G2/5000 |
| FVH | (80°-90°) | 1146.1 | 8.0 | | | G5 |
| BL | (0°-30°) | 150.2 | 1.0 | B1/500 | | |
| BM | (30°-60°) | 964.0 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 997.3 | 7.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 514.3 | 3.6 | | | G4/750 |
| UL | (90°-100°) | 1549.0 | 10.8 | | U5 | |
| UH | (100°-180°) | 4360.9 | 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° | 103.8 | 103.8 | 103.8 | *103.8* | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 |
| 2.5° | 123.8 | 123.8 | 124.7 | *124.7* | 122.9 | 123.8 | 122.0 | 119.2 | 117.4 | 112.9 | 111.0 |
| 5° | 180.2 | 177.5 | 178.4 | *176.6* | 172.9 | 171.1 | 163.8 | 158.4 | 149.3 | 139.3 | 134.7 |
| 7.5° | 250.3 | 251.2 | 247.6 | *243.0* | 242.1 | 232.1 | 230.3 | 213.0 | 205.7 | 188.4 | 183.8 |
| 10° | 336.8 | 334.9 | 331.3 | *330.4* | 322.2 | 312.2 | 296.7 | 287.6 | 263.9 | 251.2 | 241.2 |
| 12.5° | 431.4 | 432.3 | 425.9 | *419.6* | 412.3 | 398.6 | 377.7 | 363.1 | 344.0 | 317.6 | 304.9 |
| 15° | 533.3 | 529.7 | 529.7 | *522.4* | 511.5 | 496.0 | 479.6 | 458.7 | 431.4 | 403.2 | 385.0 |
| 17.5° | 628.0 | 635.3 | 632.5 | *623.4* | 613.4 | 594.3 | 577.0 | 547.9 | 517.9 | 486.9 | 464.2 |
| 20° | 746.3 | 748.1 | 743.6 | *735.4* | 726.3 | 704.4 | 683.5 | 654.4 | 617.1 | 568.8 | 549.7 |
| 22.5° | 865.5 | 869.2 | 869.2 | *864.6* | 851.9 | 832.8 | 799.1 | 767.2 | 720.8 | 672.6 | 640.7 |
| 25° | 1003.0 | 1000.2 | 1003.0 | *1000.2* | 979.3 | 962.0 | 927.4 | 889.2 | 839.1 | 780.0 | 741.8 |
| 27.5° | 1141.3 | 1145.0 | 1137.7 | *1131.3* | 1123.1 | 1095.8 | 1058.5 | 1010.3 | 947.5 | 885.6 | 844.6 |
| 30° | 1276.0 | 1284.2 | 1284.2 | *1276.9* | 1264.2 | 1236.9 | 1195.0 | 1143.1 | 1074.0 | 995.7 | 947.5 |
| 32.5° | 1417.1 | 1419.8 | 1423.5 | *1422.5* | 1408.0 | 1381.6 | 1335.2 | 1265.1 | 1187.7 | 1101.3 | 1053.9 |
| 35° | 1566.4 | 1558.2 | 1560.0 | *1554.5* | 1548.1 | 1515.4 | 1461.7 | 1394.3 | 1310.6 | 1214.1 | 1156.8 |
| 37.5° | 1690.1 | 1686.5 | 1689.2 | *1693.8* | 1676.5 | 1642.8 | 1580.9 | 1502.6 | 1410.7 | 1309.7 | 1252.4 |
| 40° | 1807.5 | 1804.8 | 1809.4 | *1810.3* | 1793.0 | 1753.8 | 1688.3 | 1612.8 | 1513.6 | 1397.1 | 1343.4 |
| 42.5° | 1905.8 | 1905.8 | 1910.4 | *1915.8* | 1897.6 | 1855.8 | 1789.3 | 1699.2 | 1597.3 | 1479.9 | 1414.4 |
| 45° | 1996.8 | 1994.1 | 2003.2 | *2005.9* | 1987.7 | 1945.9 | 1871.2 | 1780.2 | 1671.0 | 1551.8 | 1483.5 |
| 47.5° | 2069.7 | 2070.6 | 2079.7 | *2085.1* | 2068.7 | 2021.4 | 1945.9 | 1849.4 | 1735.6 | 1610.9 | 1540.9 |
| 50° | 2129.7 | 2137.9 | 2146.1 | *2152.5* | 2135.2 | 2087.9 | 2009.6 | 1904.9 | 1791.2 | 1665.6 | 1592.7 |
| 52.5° | 2189.8 | 2189.8 | 2202.5 | *2210.7* | 2191.6 | 2142.5 | 2060.6 | 1958.6 | 1842.1 | 1709.2 | 1638.3 |
| 55° | 2228.0 | 2228.9 | 2244.4 | *2247.1* | 2235.3 | 2184.3 | 2100.6 | 1998.7 | 1882.2 | 1748.4 | 1672.8 |
| 57.5° | 2261.7 | 2262.6 | 2279.9 | *2286.3* | 2269.9 | 2220.7 | 2135.2 | 2029.6 | 1915.8 | 1779.3 | 1702.9 |
| 60° | 2290.8 | 2289.9 | 2304.5 | *2313.6* | 2297.2 | 2245.3 | 2161.6 | 2058.7 | 1942.2 | 1807.5 | 1728.4 |
| 62.5° | 2309.0 | 2309.0 | 2326.3 | *2335.4* | 2318.1 | 2267.2 | 2181.6 | 2079.7 | 1963.2 | 1826.7 | 1748.4 |
| 65° | 2317.2 | 2319.0 | 2335.4 | *2346.3* | 2330.0 | 2278.1 | 2192.5 | 2092.4 | 1977.7 | 1842.1 | 1762.9 |
| 67.5° | *2319.9* | *2320.9* | *2340.9* | *2351.8* | *2336.3* | *2283.5* | *2198.9* | *2100.6* | *1988.7* | *1852.1* | *1772.0* |
| 70° | 2321.8 | 2322.7 | 2338.2 | *2349.1* | 2335.4 | 2282.6 | 2200.7 | 2104.2 | 1995.0 | 1857.6 | 1777.5 |
| 72.5° | 2311.8 | 2314.5 | 2331.8 | *2344.5* | 2328.1 | 2276.3 | 2196.2 | 2104.2 | 1994.1 | 1861.2 | 1779.3 |
| 75° | 2299.0 | 2305.4 | 2320.9 | *2331.8* | 2317.2 | 2267.2 | 2188.9 | 2100.6 | 1993.2 | 1859.4 | 1779.3 |
| 77.5° | 2286.3 | 2287.2 | 2307.2 | *2317.2* | 2301.7 | 2250.8 | 2176.1 | 2091.5 | 1987.7 | 1854.0 | 1773.0 |
| 80° | 2260.8 | 2266.2 | 2283.5 | *2292.6* | 2279.0 | 2230.8 | 2157.9 | 2078.8 | 1977.7 | 1844.9 | 1762.9 |
| 82.5° | 2242.6 | 2240.8 | 2258.1 | *2266.2* | 2252.6 | 2202.5 | 2137.0 | 2058.7 | 1963.2 | 1829.4 | 1749.3 |
| 85° | 2208.0 | 2211.6 | 2225.3 | *2232.6* | 2217.1 | 2171.6 | 2108.8 | 2038.7 | 1943.1 | 1812.1 | 1731.1 |
| 87.5° | 2175.2 | 2177.1 | 2186.2 | *2194.3* | 2178.9 | 2135.2 | 2076.9 | 2010.5 | 1918.6 | 1790.2 | 1711.1 |
| 90° | 2134.3 | 2135.2 | 2145.2 | *2151.6* | 2137.9 | 2097.0 | 2043.3 | 1978.6 | 1892.2 | 1765.7 | 1686.5 |
| 92.5° | 2096.1 | 2094.2 | 2101.5 | *2104.2* | 2092.4 | 2052.4 | 2004.1 | 1944.1 | 1860.3 | 1735.6 | 1659.2 |
| 95° | 2046.0 | 2045.1 | 2051.5 | *2049.6* | 2036.9 | 2002.3 | 1958.6 | 1905.8 | 1823.0 | 1703.8 | 1628.2 |
| 97.5° | 1990.5 | 1991.4 | 1995.0 | *1993.2* | 1979.6 | 1947.7 | 1914.0 | 1861.2 | 1784.8 | 1666.5 | 1593.7 |
| 100° | 1928.6 | 1931.3 | 1936.8 | *1931.3* | 1919.5 | 1895.8 | 1860.3 | 1816.6 | 1741.1 | 1629.2 | 1557.3 |
| 102.5° | 1876.7 | 1869.4 | 1867.6 | *1866.7* | 1854.9 | 1833.9 | 1806.6 | 1768.4 | 1698.3 | 1588.2 | 1519.0 |
| 105° | 1808.4 | 1803.9 | 1803.0 | *1793.0* | 1788.4 | 1771.1 | 1748.4 | 1713.8 | 1651.0 | 1547.2 | 1479.9 |
| 107.5° | 1736.5 | 1737.5 | 1733.8 | *1722.0* | 1715.6 | 1703.8 | 1691.0 | 1660.1 | 1600.0 | 1501.7 | 1439.8 |
| 110° | 1671.9 | 1667.4 | 1657.4 | *1651.9* | 1647.4 | 1637.3 | 1629.2 | 1605.5 | 1550.0 | 1458.0 | 1396.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 1591.8 | 1594.6 | 1582.7 | *1579.1* | 1571.8 | 1570.9 | 1565.4 | 1546.3 | 1497.2 | 1411.6 | 1353.4 |
| 115° | 1519.9 | 1518.1 | 1506.3 | *1499.0* | 1496.3 | 1498.1 | 1501.7 | 1488.1 | 1442.6 | 1361.6 | 1307.9 |
| 117.5° | 1440.8 | 1435.3 | 1427.1 | *1419.8* | 1416.2 | 1423.5 | 1431.7 | 1425.3 | 1387.1 | 1310.6 | 1259.6 |
| 120° | 1356.1 | 1357.0 | 1345.2 | *1337.9* | 1338.8 | 1350.6 | 1361.6 | 1357.9 | 1321.5 | 1253.3 | 1207.8 |
| 122.5° | 1276.9 | 1272.4 | 1262.4 | *1255.1* | 1261.5 | 1274.2 | 1286.9 | 1286.0 | 1254.2 | 1187.7 | 1146.8 |
| 125° | 1190.5 | 1189.6 | 1179.5 | *1172.3* | 1177.7 | 1192.3 | 1207.8 | 1209.6 | 1179.5 | 1124.0 | 1083.1 |
| 127.5° | 1108.6 | 1105.8 | 1104.0 | *1095.8* | 1099.4 | 1119.5 | 1130.4 | 1129.5 | 1103.1 | 1052.1 | 1016.6 |
| 130° | 1030.3 | 1029.4 | 1018.4 | *1014.8* | 1019.4 | 1035.7 | 1046.7 | 1044.8 | 1023.9 | 979.3 | 947.5 |
| 132.5° | 951.1 | 947.5 | 942.9 | *937.4* | 941.1 | 954.7 | 969.3 | 967.5 | 942.9 | 900.1 | 874.6 |
| 135° | 872.8 | 870.1 | 866.5 | *862.8* | 865.5 | 879.2 | 891.9 | 888.3 | 867.4 | 829.1 | 803.7 |
| 137.5° | 800.9 | 798.2 | 793.6 | *789.1* | 792.7 | 803.7 | 811.8 | 809.1 | 791.8 | 755.4 | 730.8 |
| 140° | 726.3 | 728.1 | 722.7 | *719.0* | 720.8 | 731.8 | 738.1 | 734.5 | 715.4 | 685.3 | 665.3 |
| 142.5° | 658.0 | 658.0 | 655.3 | *654.4* | 657.1 | 662.6 | 668.0 | 660.8 | 648.0 | 617.1 | 600.7 |
| 145° | 592.5 | 593.4 | 592.5 | *590.7* | 591.6 | 598.0 | 598.9 | 596.1 | 581.6 | 558.8 | 540.6 |
| 147.5° | 530.6 | 533.3 | 531.5 | *531.5* | 532.4 | 535.2 | 538.8 | 532.4 | 519.7 | 499.7 | 486.9 |
| 150° | 473.3 | 475.1 | 475.1 | *473.3* | 473.3 | 476.9 | 476.9 | 472.4 | 462.4 | 446.0 | 434.1 |
| 152.5° | 423.2 | 424.1 | 424.1 | *422.3* | 423.2 | 424.1 | 422.3 | 416.8 | 408.7 | 395.9 | 386.8 |
| 155° | 377.7 | 379.5 | 376.8 | *377.7* | 375.0 | 375.9 | 375.0 | 371.3 | 362.2 | 351.3 | 345.9 |
| 157.5° | 336.8 | 339.5 | 337.7 | *337.7* | 335.8 | 334.9 | 334.0 | 330.4 | 324.0 | 314.9 | 308.5 |
| 160° | 304.0 | 305.8 | 303.1 | *303.1* | 301.3 | 301.3 | 297.6 | 295.8 | 289.4 | 281.2 | 277.6 |
| 162.5° | 275.8 | 275.8 | 274.9 | *275.8* | 274.9 | 272.1 | 270.3 | 266.7 | 261.2 | 254.8 | 252.1 |
| 165° | 253.0 | 252.1 | 252.1 | *251.2* | 250.3 | 248.5 | 245.7 | 243.9 | 238.5 | 233.0 | 231.2 |
| 167.5° | 235.7 | 234.8 | 233.9 | *233.0* | 231.2 | 230.3 | 227.5 | 225.7 | 221.2 | 216.6 | 214.8 |
| 170° | 221.2 | 221.2 | 219.3 | *218.4* | 217.5 | 215.7 | 213.0 | 210.2 | 206.6 | 203.9 | 202.1 |
| 172.5° | 208.4 | 208.4 | 207.5 | *206.6* | 205.7 | 203.9 | 201.1 | 199.3 | 196.6 | 193.9 | 192.0 |
| 175° | 199.3 | 199.3 | 198.4 | *196.6* | 195.7 | 193.9 | 192.0 | 190.2 | 187.5 | 185.7 | 184.8 |
| 177.5° | 192.0 | 192.0 | 192.0 | *190.2* | 189.3 | 187.5 | 185.7 | 183.8 | 182.9 | 181.1 | 181.1 |
| 180° | 182.9 | 182.9 | 182.9 | *182.9* | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 |
| 2.5° | 108.3 | 102.8 | 98.3 | 91.0 | 84.6 | 79.2 | 75.5 | 72.8 | 71.0 | 69.2 |
| 5° | 129.2 | 119.2 | 109.2 | 98.3 | 88.3 | 79.2 | 71.9 | 66.4 | 63.7 | 63.7 |
| 7.5° | 176.6 | 161.1 | 143.8 | 128.3 | 116.5 | 104.7 | 93.7 | 87.4 | 83.7 | 81.9 |
| 10° | 231.2 | 208.4 | 191.1 | 172.0 | 151.1 | 136.5 | 123.8 | 115.6 | 111.0 | 111.9 |
| 12.5° | 296.7 | 268.5 | 246.6 | 218.4 | 195.7 | 172.9 | 159.3 | 147.4 | 142.0 | 141.1 |
| 15° | 369.5 | 336.8 | 304.9 | 271.2 | 241.2 | 214.8 | 194.8 | 179.3 | 170.2 | 169.3 |
| 17.5° | 446.0 | 405.0 | 362.2 | 324.0 | 284.9 | 252.1 | 224.8 | 206.6 | 196.6 | 196.6 |
| 20° | 523.3 | 476.9 | 426.9 | 376.8 | 329.5 | 289.4 | 257.6 | 233.9 | 221.2 | 219.3 |
| 22.5° | 612.5 | 553.4 | 493.3 | 432.3 | 378.6 | 328.6 | 287.6 | 259.4 | 245.7 | 243.0 |
| 25° | 709.9 | 639.8 | 567.9 | 496.0 | 429.6 | 369.5 | 322.2 | 290.3 | 271.2 | 268.5 |
| 27.5° | 810.9 | 726.3 | 641.6 | 557.9 | 480.6 | 414.1 | 356.8 | 315.8 | 296.7 | 294.0 |
| 30° | 910.1 | 817.3 | 719.0 | 620.7 | 533.3 | 456.9 | 391.4 | 344.0 | 320.4 | 316.7 |
| 32.5° | 1007.5 | 901.9 | 793.6 | 684.4 | 588.9 | 499.7 | 423.2 | 372.2 | 343.1 | 339.5 |
| 35° | 1100.4 | 991.1 | 864.6 | 747.2 | 638.0 | 542.4 | 456.9 | 397.7 | 365.0 | 361.3 |
| 37.5° | 1191.4 | 1067.6 | 934.7 | 805.5 | 687.2 | 578.8 | 487.8 | 421.4 | 385.0 | 381.3 |
| 40° | 1277.8 | 1140.4 | 995.7 | 859.2 | 729.9 | 615.3 | 514.2 | 442.3 | 401.4 | 396.8 |
| 42.5° | 1344.3 | 1203.2 | 1052.1 | 904.7 | 767.2 | 642.6 | 537.9 | 458.7 | 414.1 | 407.7 |
| 45° | 1410.7 | 1259.6 | 1100.4 | 944.7 | 800.0 | 669.0 | 557.0 | 473.3 | 425.9 | 418.7 |
| 47.5° | 1465.3 | 1307.9 | 1139.5 | 977.5 | 827.3 | 691.7 | 573.4 | 483.3 | 433.2 | 425.9 |
| 50° | 1517.2 | 1350.6 | 1175.9 | 1007.5 | 851.9 | 711.7 | 587.0 | 491.5 | 437.8 | 430.5 |
| 52.5° | 1557.3 | 1386.1 | 1205.0 | 1031.2 | 871.9 | 726.3 | 598.0 | 496.9 | 440.5 | 432.3 |
| 55° | 1590.9 | 1415.3 | 1228.7 | 1049.4 | 887.4 | 739.0 | 606.2 | 499.7 | 440.5 | 432.3 |
| 57.5° | 1619.1 | 1438.0 | 1247.8 | 1065.8 | 899.2 | 747.2 | 611.6 | 500.6 | 437.8 | 429.6 |
| 60° | 1643.7 | 1459.0 | 1263.3 | 1078.5 | 910.1 | 755.4 | 615.3 | 500.6 | 435.0 | 425.9 |
| 62.5° | 1663.7 | 1473.5 | 1275.1 | 1088.5 | 918.3 | 761.8 | 617.1 | 498.8 | 429.6 | 420.5 |
| 65° | 1675.6 | 1483.5 | 1282.4 | 1094.0 | 922.9 | 763.6 | 617.1 | 496.0 | 424.1 | 415.0 |
| 67.5° | *1685.6* | *1489.9* | *1286.9* | *1096.7* | *925.6* | *765.4* | *616.2* | *491.5* | *418.7* | *409.6* |
| 70° | 1690.1 | 1492.6 | 1288.8 | 1098.5 | 927.4 | 764.5 | 613.4 | 487.8 | 413.2 | 402.3 |
| 72.5° | 1691.0 | 1493.5 | 1287.8 | 1098.5 | 927.4 | 764.5 | 610.7 | 482.4 | 406.8 | 396.8 |
| 75° | 1689.2 | 1490.8 | 1285.1 | 1097.6 | 926.5 | 761.8 | 608.0 | 477.8 | 401.4 | 390.5 |
| 77.5° | 1683.8 | 1485.3 | 1280.6 | 1094.0 | 922.0 | 759.1 | 602.5 | 472.4 | 395.0 | 385.0 |
| 80° | 1674.7 | 1476.2 | 1273.3 | 1087.6 | 916.5 | 753.6 | 598.0 | 466.9 | 389.5 | 379.5 |
| 82.5° | 1661.0 | 1464.4 | 1264.2 | 1079.4 | 911.1 | 747.2 | 592.5 | 461.4 | 384.1 | 374.1 |
| 85° | 1644.6 | 1449.9 | 1250.5 | 1069.4 | 902.9 | 739.9 | 585.2 | 455.1 | 378.6 | 368.6 |
| 87.5° | 1621.9 | 1431.7 | 1236.0 | 1057.6 | 891.9 | 730.8 | 577.0 | 449.6 | 374.1 | 364.1 |
| 90° | 1600.0 | 1411.6 | 1220.5 | 1044.8 | 881.9 | 722.7 | 569.7 | 443.2 | 370.4 | 360.4 |
| 92.5° | 1574.5 | 1388.0 | 1201.4 | 1030.3 | 868.3 | 711.7 | 562.5 | 437.8 | 366.8 | 357.7 |
| 95° | 1545.4 | 1362.5 | 1181.4 | 1013.0 | 855.5 | 700.8 | 553.4 | 432.3 | 363.1 | 355.0 |
| 97.5° | 1512.7 | 1335.2 | 1159.5 | 994.8 | 840.1 | 689.0 | 545.2 | 427.8 | 361.3 | 352.2 |
| 100° | 1479.0 | 1304.2 | 1135.9 | 976.6 | 824.6 | 676.2 | 537.0 | 423.2 | 360.4 | 352.2 |
| 102.5° | 1440.8 | 1276.0 | 1112.2 | 958.4 | 809.1 | 664.4 | 528.8 | 420.5 | 360.4 | 352.2 |
| 105° | 1404.3 | 1243.3 | 1086.7 | 938.4 | 793.6 | 652.6 | 521.5 | 418.7 | 361.3 | 354.0 |
| 107.5° | 1365.2 | 1212.3 | 1061.2 | 917.4 | 776.3 | 640.7 | 515.1 | 416.8 | 363.1 | 355.9 |
| 110° | 1328.8 | 1182.3 | 1037.6 | 897.4 | 760.9 | 629.8 | 508.8 | 415.9 | 365.0 | 358.6 |

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

Scaled Data Report

REPORT NUMBER: P1224005
CATALOG NUMBER: FFX-CLB-90-750-U-VM8-T4

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 1288.8 | 1149.5 | 1011.2 | 875.6 | 744.5 | 617.1 | 502.4 | 414.1 | 366.8 | 361.3 |
| 115° | 1246.9 | 1114.9 | 984.8 | 853.7 | 725.4 | 605.2 | 496.0 | 413.2 | 368.6 | 363.1 |
| 117.5° | 1201.4 | 1077.6 | 952.9 | 828.2 | 705.4 | 590.7 | 486.9 | 409.6 | 368.6 | 363.1 |
| 120° | 1152.2 | 1038.5 | 918.3 | 800.9 | 682.6 | 573.4 | 477.8 | 405.0 | 366.8 | 362.2 |
| 122.5° | 1098.5 | 992.1 | 878.3 | 766.3 | 657.1 | 553.4 | 464.2 | 396.8 | 362.2 | 357.7 |
| 125° | 1039.4 | 940.2 | 837.3 | 729.0 | 625.3 | 530.6 | 447.8 | 387.7 | 355.0 | 351.3 |
| 127.5° | 977.5 | 886.5 | 788.2 | 689.9 | 595.2 | 506.0 | 430.5 | 374.1 | 344.9 | 341.3 |
| 130° | 908.3 | 826.4 | 737.2 | 646.2 | 559.7 | 477.8 | 409.6 | 358.6 | 332.2 | 328.6 |
| 132.5° | 841.9 | 767.2 | 687.2 | 606.2 | 522.4 | 450.5 | 386.8 | 341.3 | 318.5 | 314.9 |
| 135° | 772.7 | 707.2 | 635.3 | 558.8 | 487.8 | 420.5 | 364.1 | 324.0 | 303.1 | 300.3 |
| 137.5° | 705.4 | 649.8 | 582.5 | 515.1 | 452.3 | 391.4 | 342.2 | 307.6 | 288.5 | 286.7 |
| 140° | 642.6 | 590.7 | 534.3 | 475.1 | 416.8 | 364.1 | 321.3 | 289.4 | 274.0 | 271.2 |
| 142.5° | 581.6 | 537.0 | 486.0 | 436.0 | 382.3 | 337.7 | 300.3 | 272.1 | 259.4 | 257.6 |
| 145° | 524.2 | 486.9 | 442.3 | 396.8 | 351.3 | 312.2 | 280.3 | 256.7 | 245.7 | 244.8 |
| 147.5° | 470.5 | 439.6 | 400.5 | 362.2 | 324.0 | 291.2 | 262.1 | 243.9 | 233.9 | 233.0 |
| 150° | 421.4 | 393.2 | 362.2 | 329.5 | 297.6 | 268.5 | 246.6 | 230.3 | 222.1 | 221.2 |
| 152.5° | 375.0 | 353.1 | 327.7 | 301.3 | 274.0 | 251.2 | 231.2 | 219.3 | 213.0 | 212.1 |
| 155° | 334.9 | 317.6 | 296.7 | 274.0 | 253.0 | 234.8 | 219.3 | 210.2 | 204.8 | 204.8 |
| 157.5° | 301.3 | 286.7 | 271.2 | 253.0 | 235.7 | 221.2 | 210.2 | 202.1 | 197.5 | 197.5 |
| 160° | 272.1 | 259.4 | 247.6 | 233.9 | 222.1 | 210.2 | 202.1 | 195.7 | 192.0 | 192.0 |
| 162.5° | 247.6 | 238.5 | 229.4 | 219.3 | 209.3 | 202.1 | 194.8 | 190.2 | 188.4 | 187.5 |
| 165° | 227.5 | 222.1 | 214.8 | 207.5 | 201.1 | 194.8 | 190.2 | 187.5 | 185.7 | 185.7 |
| 167.5° | 212.1 | 208.4 | 203.0 | 198.4 | 193.9 | 189.3 | 186.6 | 184.8 | 183.8 | 183.8 |
| 170° | 200.2 | 197.5 | 193.9 | 191.1 | 188.4 | 185.7 | 183.8 | 182.9 | 182.0 | 182.0 |
| 172.5° | 191.1 | 188.4 | 186.6 | 185.7 | 183.8 | 182.9 | 182.0 | 181.1 | 181.1 | 181.1 |
| 175° | 184.8 | 182.9 | 182.9 | 182.0 | 181.1 | 181.1 | 180.2 | 180.2 | 180.2 | 181.1 |
| 177.5° | 180.2 | 180.2 | 180.2 | 180.2 | 180.2 | 181.1 | 181.1 | 181.1 | 182.0 | 182.0 |
| 180° | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 | 182.9 |

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

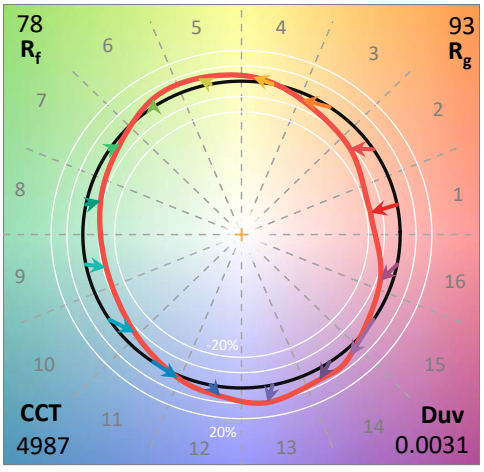
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-5 |
| 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-100-750-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 4987 | CRI (Ra): | 75.8 | | |
| CIE u': | 0.2094 | R1: | 71.6 | R9: | -30.4 |
| CIE v': | 0.4882 | R2: | 82.8 | R10: | 59.9 |
| Duv: | 0.0031 | R3: | 91.2 | R11: | 70.9 |
| CIE x: | 0.3461 | R4: | 73.8 | R12: | 51.2 |
| CIE y: | 0.3586 | R5: | 73.0 | R13: | 74.2 |
| CIE z: | 0.2954 | R6: | 76.1 | R14: | 95.3 |
| Peak Wavelength (nm): | 450 | R7: | 82.9 | R15: | 63.7 |
| Dominant Wavelength (nm): | 570 | R8: | 54.9 | | |
| Purity: | 11.4 | | | | |

| | |
|---|---|
| Rf: | 78.3 |
| Rg: | 93.4 |




## Test Conditions

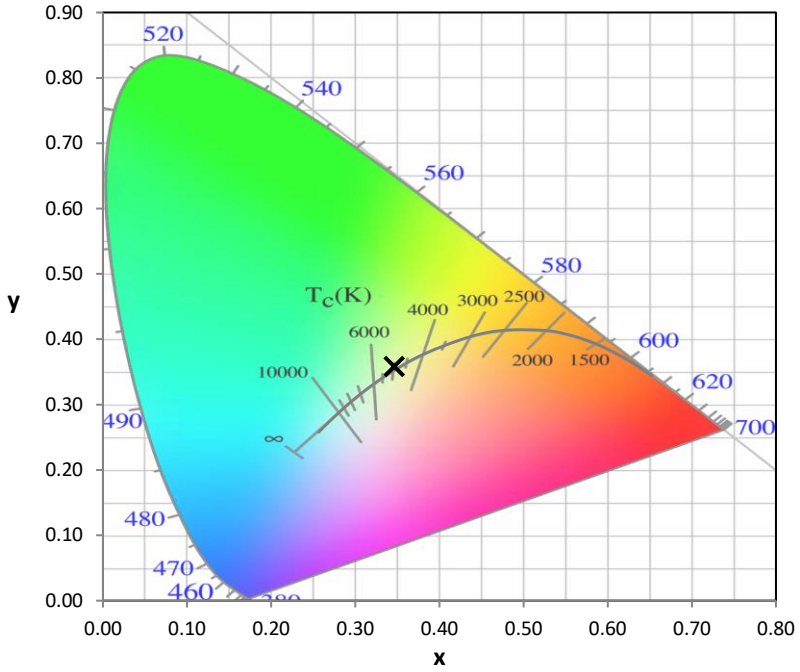
| | |
|---|---|
| Stabilization Time: | 67M |
| Operation Time: | 2H 7M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2501-332-5

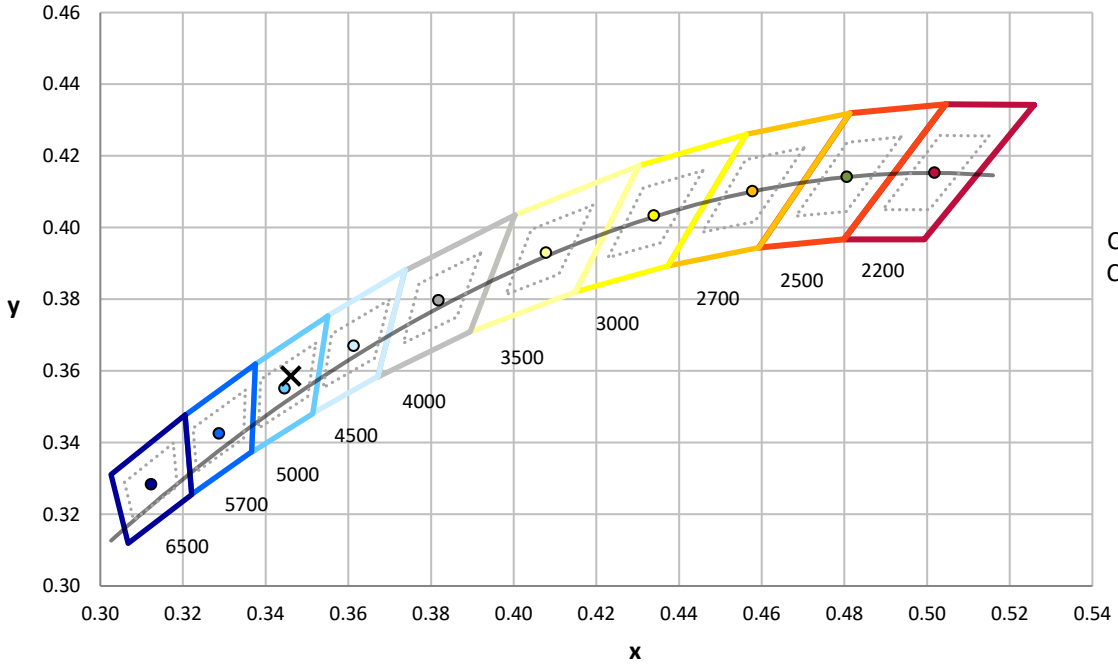
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-5

## CIE 1931 Chromaticity Diagram




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

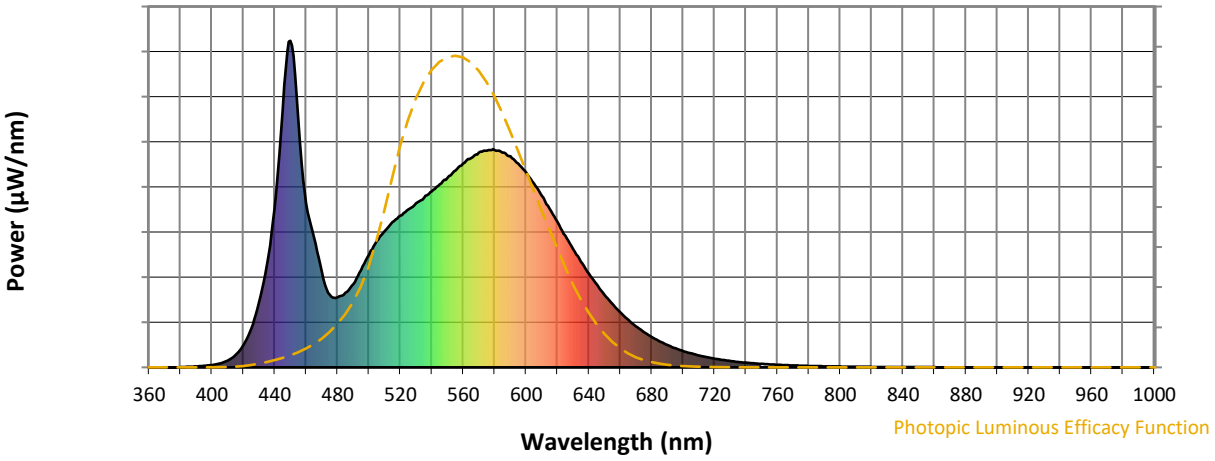



CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

## Photopic Flux vs. Wavelength

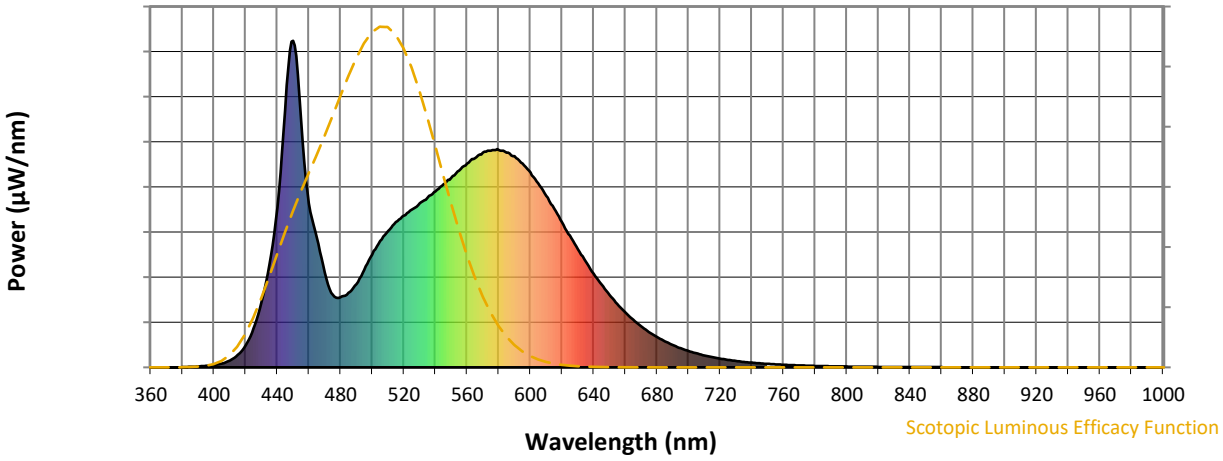



## Photopic Lumens: NR

| 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 | 255 | NR | 620 | 445 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 403 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 345 | NR | 630 | 362 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 387 | NR | 635 | 323 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 417 | NR | 640 | 287 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 445 | NR | 645 | 254 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 464 | NR | 650 | 222 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 483 | NR | 655 | 194 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 503 | NR | 660 | 168 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 519 | NR | 665 | 146 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 539 | NR | 670 | 126 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 38 | NR | 545 | 561 | NR | 675 | 108 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 580 | NR | 680 | 93 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 119 | NR | 555 | 602 | NR | 685 | 80 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 199 | NR | 560 | 624 | NR | 690 | 69 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 315 | NR | 565 | 641 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 489 | NR | 570 | 657 | NR | 700 | 50 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 787 | NR | 575 | 663 | NR | 705 | 43 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 666 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 757 | NR | 585 | 657 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 503 | NR | 590 | 646 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 398 | NR | 595 | 624 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 290 | NR | 600 | 597 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 222 | NR | 605 | 564 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 215 | NR | 610 | 525 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 228 | NR | 615 | 486 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2501-332-5

## Scotopic Flux vs. Wavelength

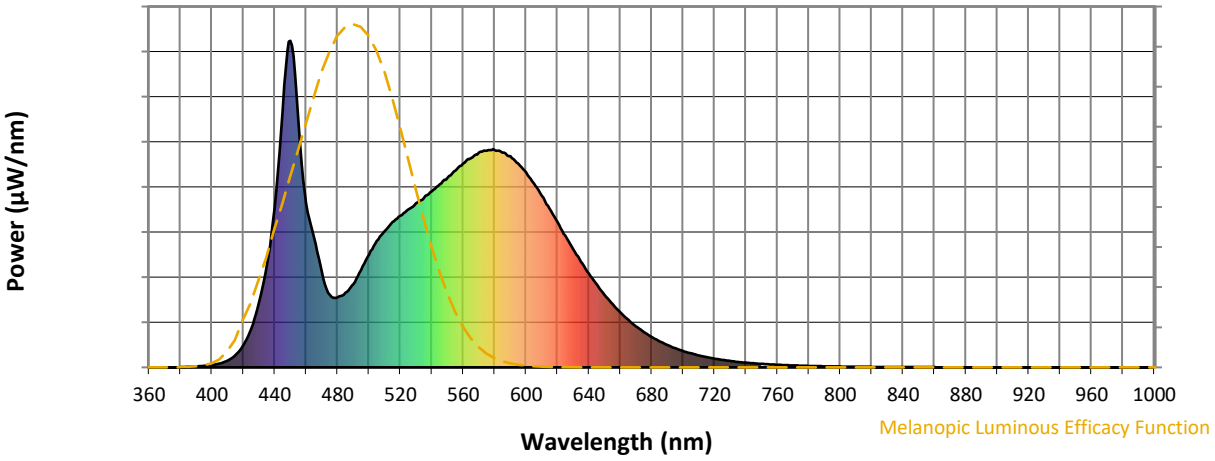



**Scotopic Lumens: NR** **S/P: 1.87**

| 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 | 255 | NR | 620 | 445 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 403 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 345 | NR | 630 | 362 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 387 | NR | 635 | 323 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 417 | NR | 640 | 287 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 445 | NR | 645 | 254 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 464 | NR | 650 | 222 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 483 | NR | 655 | 194 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 503 | NR | 660 | 168 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 519 | NR | 665 | 146 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 539 | NR | 670 | 126 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 38 | NR | 545 | 561 | NR | 675 | 108 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 580 | NR | 680 | 93 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 119 | NR | 555 | 602 | NR | 685 | 80 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 199 | NR | 560 | 624 | NR | 690 | 69 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 315 | NR | 565 | 641 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 489 | NR | 570 | 657 | NR | 700 | 50 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 787 | NR | 575 | 663 | NR | 705 | 43 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 666 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 757 | NR | 585 | 657 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 503 | NR | 590 | 646 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 398 | NR | 595 | 624 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 290 | NR | 600 | 597 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 222 | NR | 605 | 564 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 215 | NR | 610 | 525 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 228 | NR | 615 | 486 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2501-332-5

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.92**

| 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 | 255 | NR | 620 | 445 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 403 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 345 | NR | 630 | 362 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 387 | NR | 635 | 323 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 1 | NR | 510 | 417 | NR | 640 | 287 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 445 | NR | 645 | 254 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 464 | NR | 650 | 222 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 483 | NR | 655 | 194 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 503 | NR | 660 | 168 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 519 | NR | 665 | 146 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 539 | NR | 670 | 126 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 38 | NR | 545 | 561 | NR | 675 | 108 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 580 | NR | 680 | 93 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 119 | NR | 555 | 602 | NR | 685 | 80 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 199 | NR | 560 | 624 | NR | 690 | 69 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 315 | NR | 565 | 641 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 489 | NR | 570 | 657 | NR | 700 | 50 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 787 | NR | 575 | 663 | NR | 705 | 43 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 666 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 757 | NR | 585 | 657 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 503 | NR | 590 | 646 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 398 | NR | 595 | 624 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 290 | NR | 600 | 597 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 222 | NR | 605 | 564 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 215 | NR | 610 | 525 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 228 | NR | 615 | 486 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

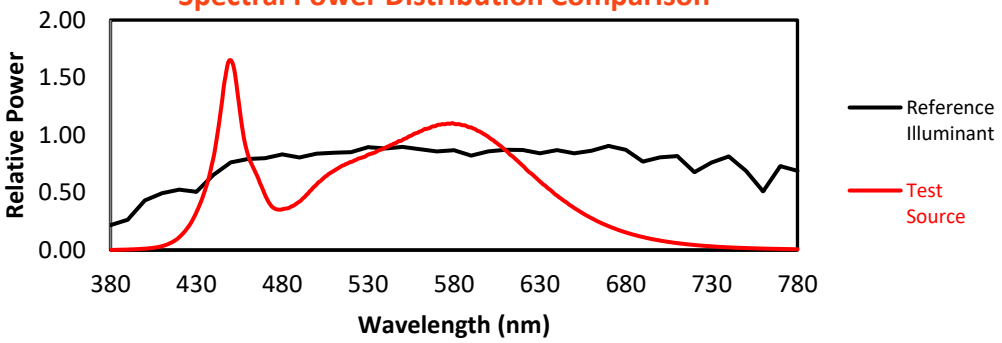
REPORT NUMBER: SP1-2501-332-5

# TM-30-18

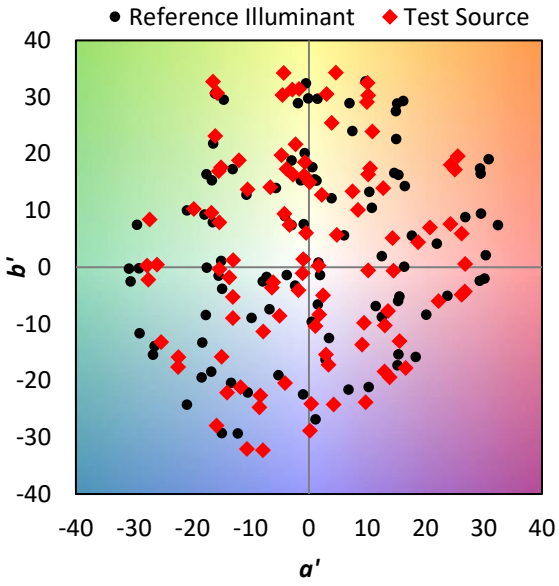
## Summary

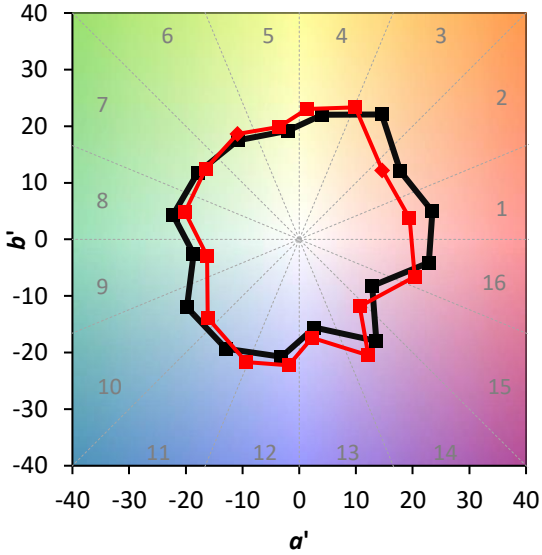
$R_f$ = 78.3
$R_g$ = 93.4
CIE $R_a$ = 75.8
$R_9$ = -30.4

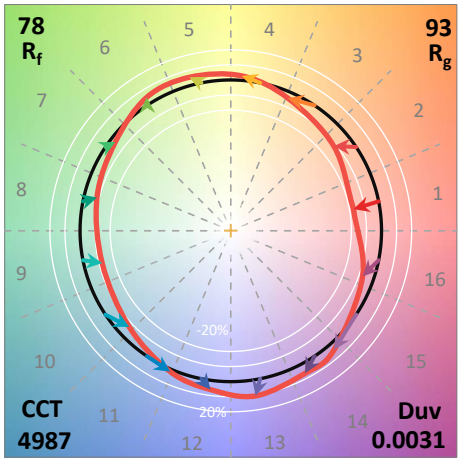
## Spectral Power Distribution Comparison

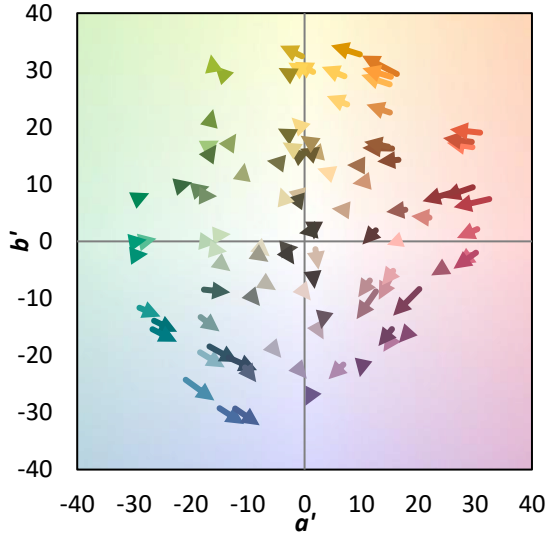



## Color Vector Graphics



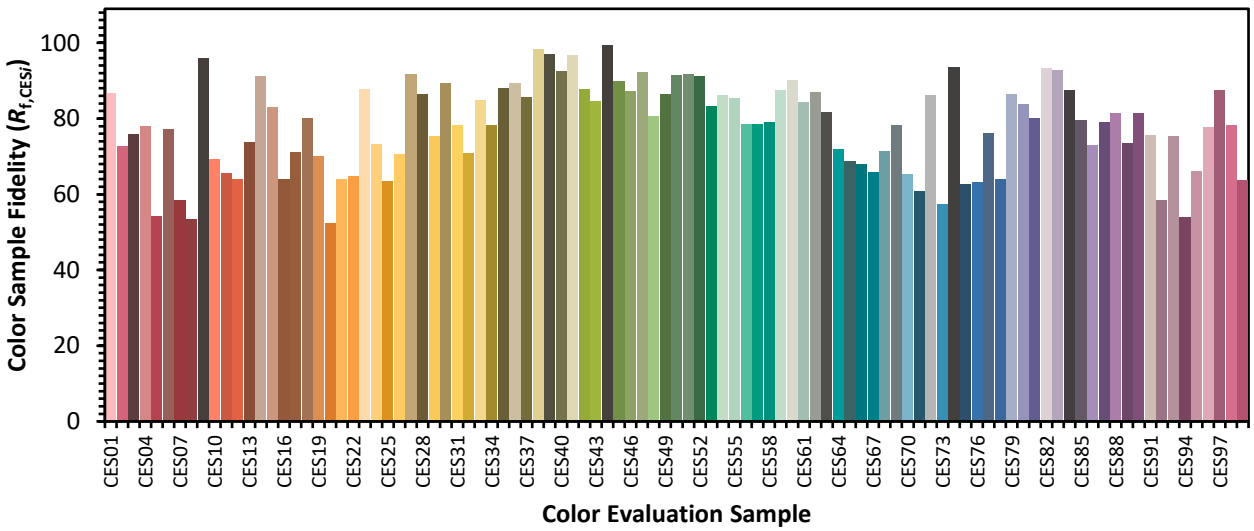



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**Individual Sample Fidelity Index ($R_{f,i}$)**

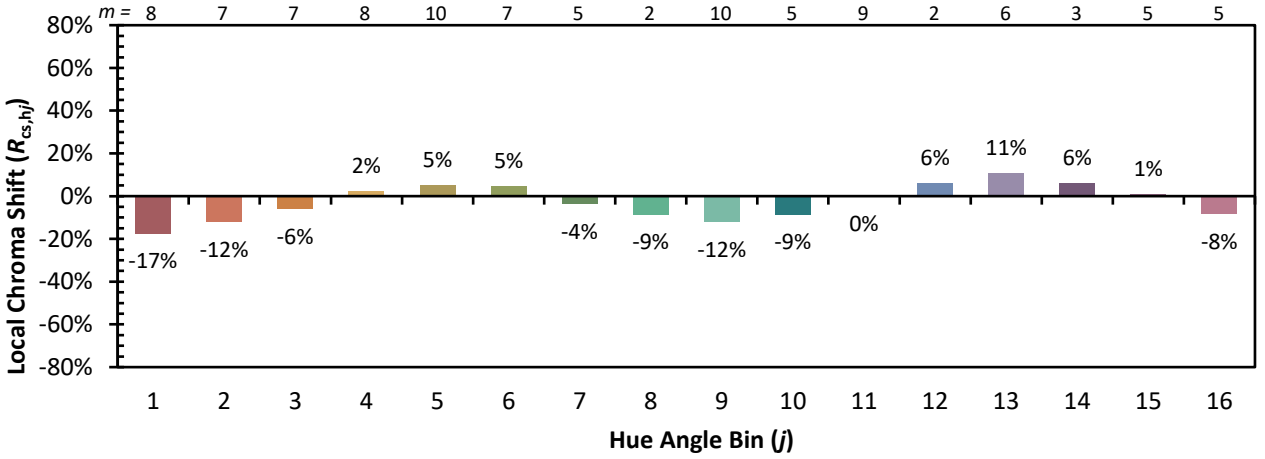
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 71 | CES51 = 92 | CES76 = 63 |
| CES02 = 60 | CES27 = 92 | CES52 = 91 | CES77 = 76 |
| CES03 = 30 | CES28 = 86 | CES53 = 83 | CES78 = 64 |
| CES04 = 69 | CES29 = 75 | CES54 = 86 | CES79 = 86 |
| CES05 = 46 | CES30 = 89 | CES55 = 85 | CES80 = 84 |
| CES06 = 50 | CES31 = 78 | CES56 = 79 | CES81 = 80 |
| CES07 = 39 | CES32 = 71 | CES57 = 78 | CES82 = 93 |
| CES08 = 38 | CES33 = 85 | CES58 = 79 | CES83 = 93 |
| CES09 = 29 | CES34 = 78 | CES59 = 88 | CES84 = 87 |
| CES10 = 73 | CES35 = 88 | CES60 = 90 | CES85 = 80 |
| CES11 = 56 | CES36 = 89 | CES61 = 84 | CES86 = 73 |
| CES12 = 61 | CES37 = 86 | CES62 = 87 | CES87 = 79 |
| CES13 = 41 | CES38 = 98 | CES63 = 82 | CES88 = 81 |
| CES14 = 74 | CES39 = 97 | CES64 = 72 | CES89 = 74 |
| CES15 = 70 | CES40 = 93 | CES65 = 69 | CES90 = 81 |
| CES16 = 46 | CES41 = 97 | CES66 = 68 | CES91 = 76 |
| CES17 = 49 | CES42 = 88 | CES67 = 66 | CES92 = 58 |
| CES18 = 55 | CES43 = 85 | CES68 = 71 | CES93 = 75 |
| CES19 = 71 | CES44 = 99 | CES69 = 78 | CES94 = 54 |
| CES20 = 64 | CES45 = 90 | CES70 = 65 | CES95 = 66 |
| CES21 = 85 | CES46 = 87 | CES71 = 61 | CES96 = 78 |
| CES22 = 77 | CES47 = 92 | CES72 = 86 | CES97 = 88 |
| CES23 = 91 | CES48 = 81 | CES73 = 57 | CES98 = 78 |
| CES24 = 90 | CES49 = 86 | CES74 = 93 | CES99 = 64 |
| CES25 = 71 | CES50 = 91 | CES75 = 63 | |

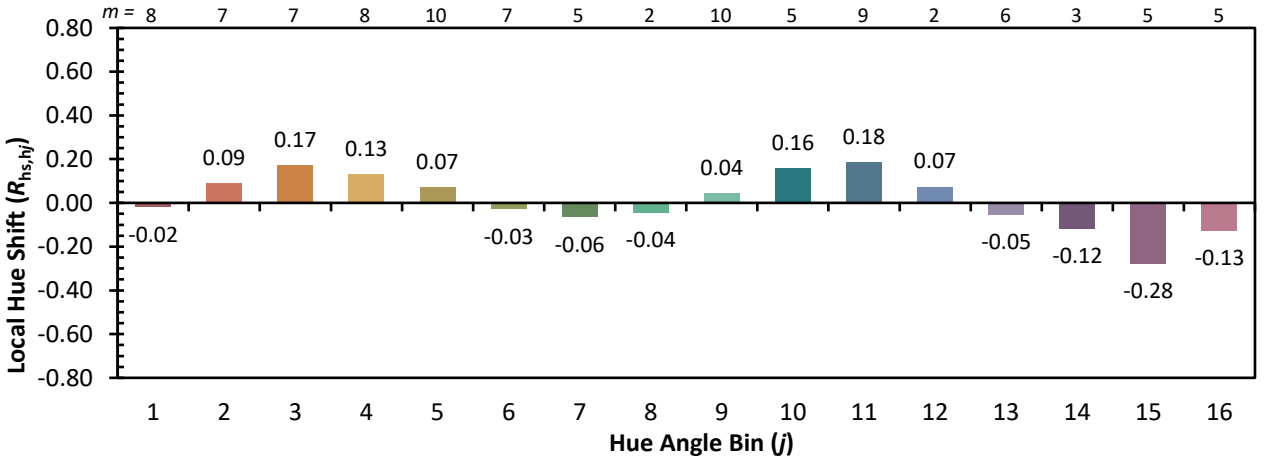


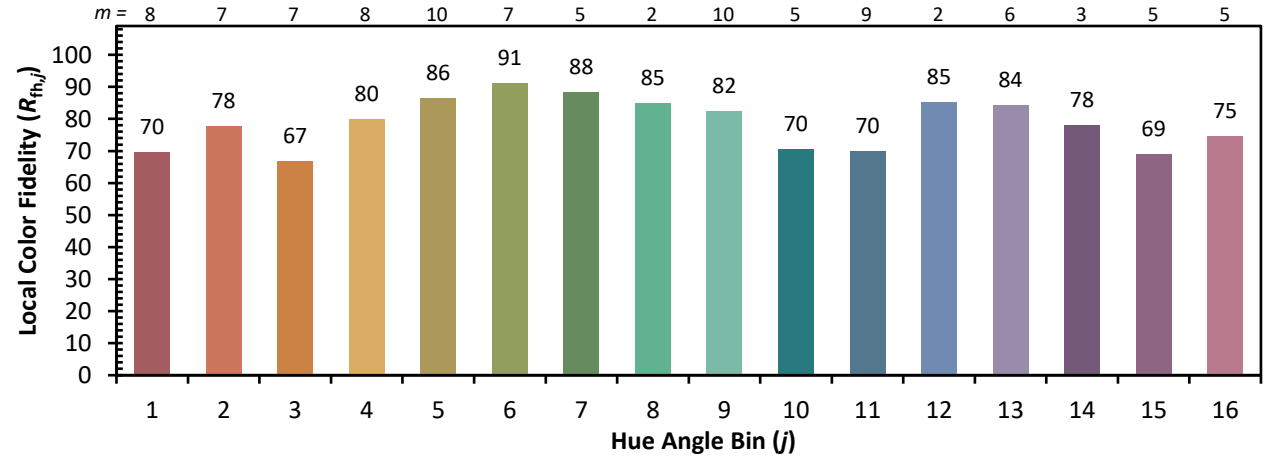
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## Color Rendition by Hue-Angle Bin



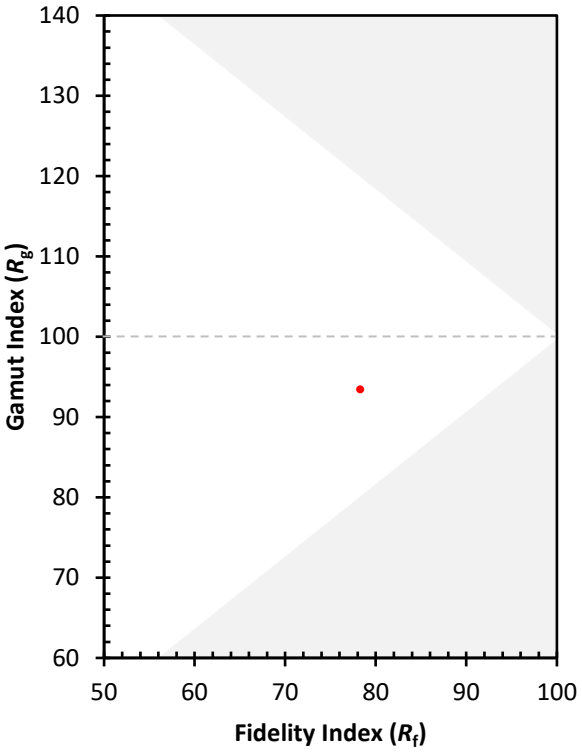



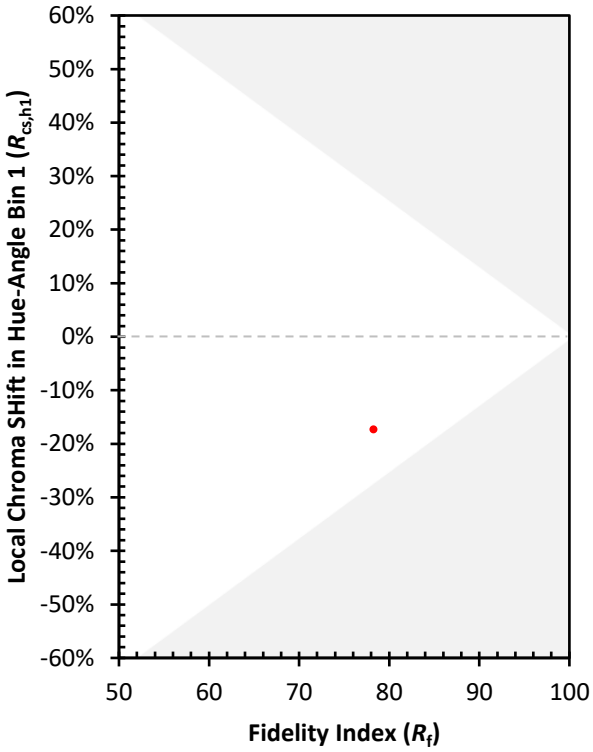



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## Measure Comparisons




(END OF REPORT)