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: P1224036

Luminaire Tested: **FFX-CLB-50-730-U-VM8-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1224036 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-50-730-U-VM8-T4-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD |
| Light Source: | (6) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 7037.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 139.1 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U5 - G4 |

| | |
|---|---|
| Input Watts (W): | 50.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 6.12% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

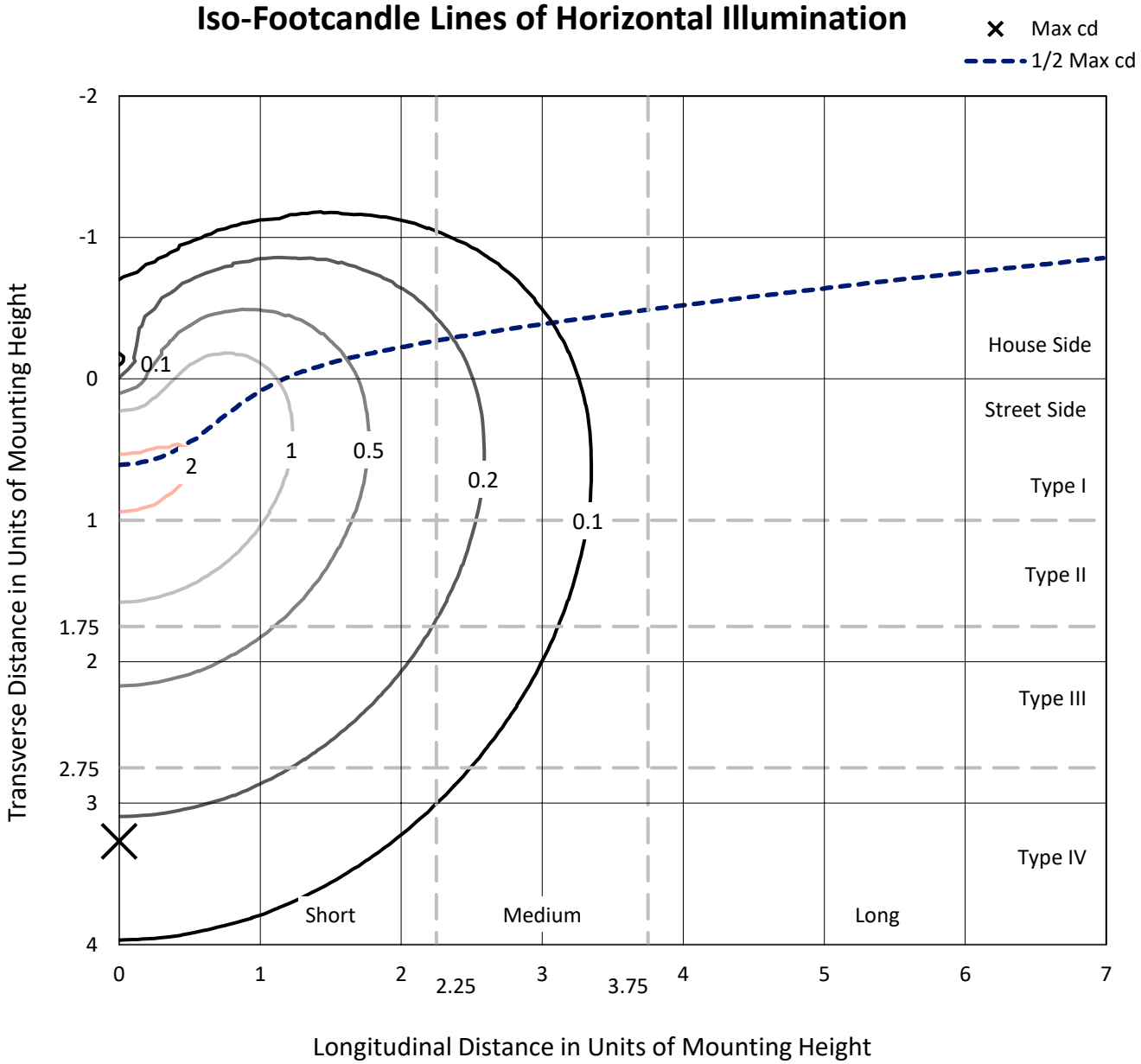


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REPORT NUMBER: P1224036
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## Iso-Footcandle Lines of Horizontal Illumination



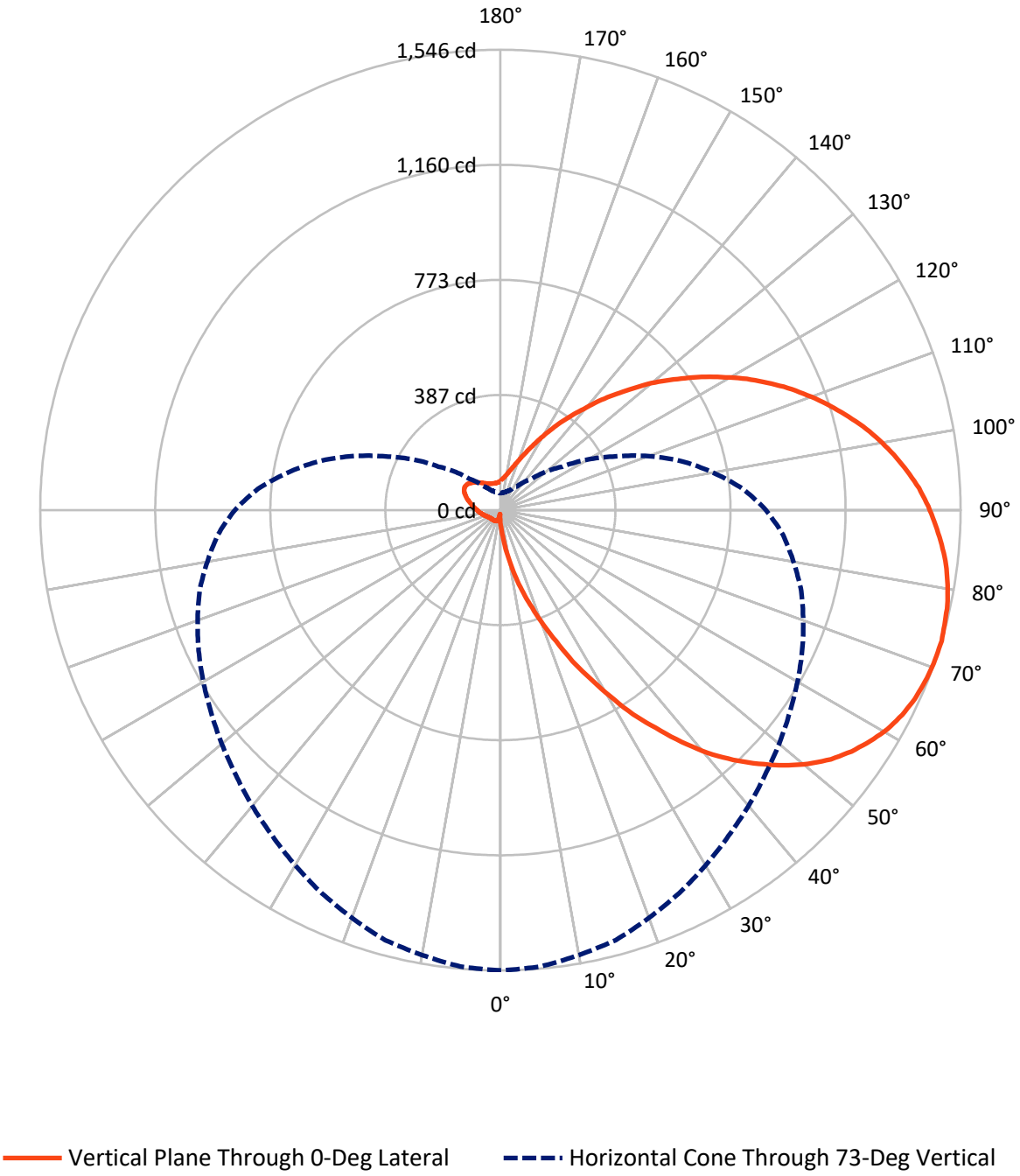

Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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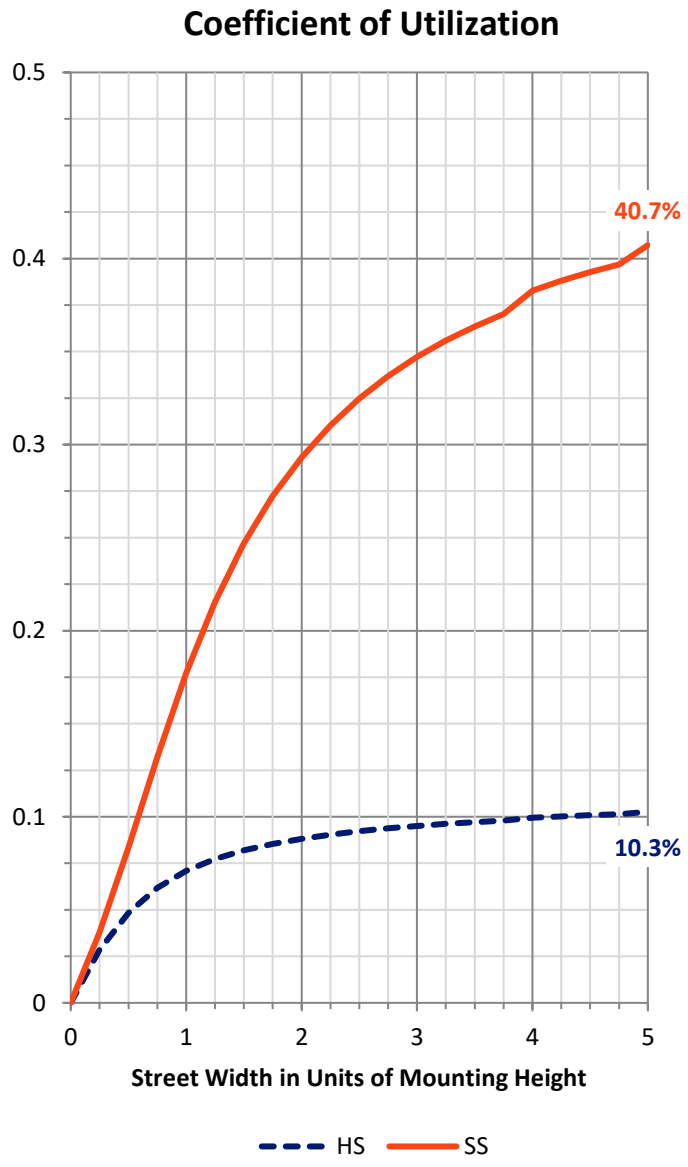
REPORT NUMBER: P1224036
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 779.5 | 766.0 | 1545.4 |
| | % Fixture | 11.1 | 10.9 | 22.0 |
| **Street Side** | Lumens | 3286.5 | 2205.5 | 5491.9 |
| | % Fixture | 46.7 | 31.3 | 78.0 |
| **Total** | Lumens | 4066.0 | 2971.4 | 7037.4 |
| | % Fixture | 57.8 | 42.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 7.2 | 0.1 |
| 10°-20° | 49.9 | 0.7 |
| 20°-30° | 150.7 | 2.1 |
| 30°-40° | 313.8 | 4.5 |
| 40°-50° | 497.4 | 7.1 |
| 50°-60° | 653.3 | 9.3 |
| 60°-70° | 761.2 | 10.8 |
| 70°-80° | 815.9 | 11.6 |
| 80°-90° | 816.5 | 11.6 |
| 90°-100° | 765.7 | 10.9 |
| 100°-110° | 673.6 | 9.6 |
| 110°-120° | 556.3 | 7.9 |
| 120°-130° | 418.7 | 5.9 |
| 130°-140° | 276.3 | 3.9 |
| 140°-150° | 158.4 | 2.3 |
| 150°-160° | 78.6 | 1.1 |
| 160°-170° | 34.3 | 0.5 |
| 170°-180° | 9.6 | 0.1 |
| 0°-90° | 4066.0 | 57.8 |
| 0°-180° | 7037.4 | 100.0 |



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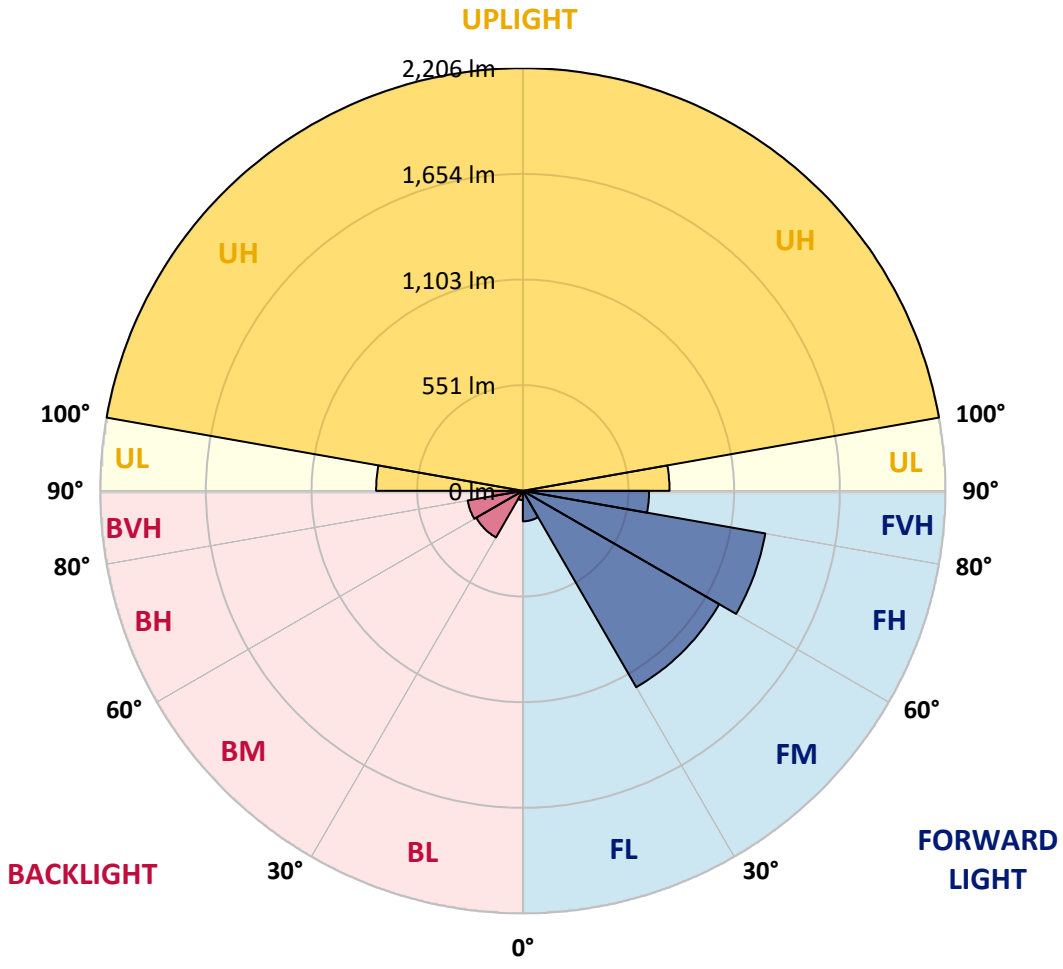
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 159.1 | 2.3 | | | |
| FM | (30°-60°) | 1183.7 | 16.8 | | | |
| FH | (60°-80°) | 1284.8 | 18.3 | | | G1/1800 |
| FVH | (80°-90°) | 658.9 | 9.4 | | | G4/750 |
| BL | (0°-30°) | 48.6 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 280.9 | 4.0 | B1/1000 | | |
| BH | (60°-80°) | 292.4 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 157.6 | 2.2 | | | G2/225 |
| UL | (90°-100°) | 765.7 | 10.9 | | U4/1000 | |
| UH | (100°-180°) | 2205.7 | 31.3 | | U5 | |

**BUG Rating: B1-U5-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 |
| 2.5° | 63.5 | 64.0 | 63.5 | 64.5 | 62.0 | 62.0 | 60.1 | 58.2 | 55.8 | 52.9 | 51.0 |
| 5° | 94.3 | 93.8 | 93.8 | 94.3 | 92.8 | 88.5 | 83.7 | 77.0 | 71.2 | 64.9 | 61.6 |
| 7.5° | 135.6 | 133.7 | 131.8 | 131.3 | 126.5 | 120.2 | 113.5 | 105.8 | 97.6 | 89.0 | 82.7 |
| 10° | 178.9 | 180.4 | 178.4 | 173.2 | 167.4 | 160.2 | 151.5 | 140.9 | 130.3 | 118.3 | 111.1 |
| 12.5° | 234.7 | 230.9 | 226.1 | 220.8 | 215.0 | 208.3 | 194.3 | 182.3 | 167.4 | 152.5 | 142.9 |
| 15° | 289.1 | 285.7 | 285.7 | 279.0 | 269.8 | 259.7 | 246.7 | 231.8 | 211.2 | 187.6 | 178.9 |
| 17.5° | 344.9 | 345.3 | 340.5 | 332.8 | 324.7 | 311.7 | 297.7 | 276.6 | 255.4 | 230.9 | 216.0 |
| 20° | 410.3 | 408.4 | 405.0 | 399.2 | 384.8 | 373.2 | 355.9 | 332.4 | 303.5 | 273.7 | 255.4 |
| 22.5° | 478.1 | 479.1 | 479.1 | 469.9 | 456.5 | 440.6 | 420.9 | 393.9 | 359.8 | 321.3 | 299.2 |
| 25° | 562.7 | 562.3 | 553.1 | 542.5 | 532.0 | 515.6 | 490.6 | 457.9 | 420.4 | 374.2 | 348.2 |
| 27.5° | 639.7 | 639.2 | 637.3 | 627.7 | 611.8 | 590.6 | 561.3 | 525.7 | 482.9 | 427.6 | 396.8 |
| 30° | 725.3 | 727.2 | 722.0 | 713.8 | 693.1 | 671.4 | 637.3 | 595.5 | 545.0 | 485.3 | 450.7 |
| 32.5° | 818.1 | 814.3 | 810.0 | 799.4 | 776.8 | 746.5 | 708.0 | 664.7 | 609.4 | 541.1 | 503.1 |
| 35° | 898.5 | 905.7 | 899.0 | 882.6 | 854.7 | 822.5 | 780.1 | 731.6 | 671.4 | 598.3 | 555.1 |
| 37.5° | 988.9 | 987.5 | 977.4 | 961.5 | 934.5 | 893.7 | 848.9 | 792.7 | 725.3 | 649.3 | 601.2 |
| 40° | 1073.1 | 1067.3 | 1061.5 | 1038.0 | 1003.8 | 962.9 | 907.6 | 850.4 | 781.1 | 695.5 | 646.9 |
| 42.5° | 1147.6 | 1147.1 | 1131.7 | 1108.2 | 1065.4 | 1020.2 | 962.9 | 899.0 | 826.8 | 738.3 | 683.5 |
| 45° | 1216.4 | 1215.0 | 1200.0 | 1164.9 | 1124.5 | 1070.2 | 1010.5 | 944.2 | 868.2 | 774.9 | 722.4 |
| 47.5° | 1281.3 | 1277.5 | 1256.8 | 1221.2 | 1170.2 | 1113.0 | 1051.4 | 981.7 | 903.3 | 807.6 | 752.7 |
| 50° | 1340.5 | 1337.1 | 1313.1 | 1267.9 | 1213.5 | 1152.4 | 1085.1 | 1012.9 | 936.5 | 840.3 | 781.1 |
| 52.5° | 1391.0 | 1385.2 | 1357.3 | 1308.7 | 1246.7 | 1182.2 | 1112.0 | 1039.9 | 962.4 | 863.4 | 806.1 |
| 55° | 1431.4 | 1425.1 | 1395.3 | 1341.0 | 1276.0 | 1206.3 | 1135.1 | 1063.4 | 982.6 | 884.0 | 825.4 |
| 57.5° | 1465.1 | 1460.3 | 1427.5 | 1367.9 | 1298.6 | 1227.0 | 1154.8 | 1081.7 | 1001.4 | 903.3 | 842.2 |
| 60° | 1494.4 | 1488.6 | 1451.6 | 1390.0 | 1316.9 | 1242.9 | 1169.3 | 1096.2 | 1017.3 | 918.2 | 857.6 |
| 62.5° | 1515.1 | 1510.8 | 1471.8 | 1405.9 | 1329.9 | 1254.9 | 1178.9 | 1108.2 | 1029.3 | 931.7 | 869.1 |
| 65° | 1530.0 | 1524.7 | 1485.3 | 1415.5 | 1338.1 | 1260.6 | 1186.1 | 1113.5 | 1037.0 | 939.8 | 877.8 |
| 67.5° | 1538.7 | 1534.8 | 1493.4 | 1422.3 | 1341.5 | 1263.5 | 1189.5 | 1118.8 | 1043.2 | 946.6 | 884.5 |
| 70° | 1544.4 | 1538.7 | 1496.8 | 1423.7 | 1340.5 | 1263.1 | 1189.5 | 1119.2 | 1046.6 | 951.4 | 888.4 |
| 72.5° | 1545.9 | 1539.6 | 1496.3 | 1421.3 | 1337.6 | 1258.2 | 1187.1 | 1119.7 | 1047.6 | 953.8 | 892.2 |
| 73° | 1546.4 | 1539.6 | 1495.8 | 1420.3 | 1336.2 | 1257.8 | 1186.6 | 1118.8 | 1046.6 | 953.3 | 892.2 |
| 75° | 1541.1 | 1536.7 | 1492.0 | 1414.6 | 1331.4 | 1253.0 | 1183.2 | 1116.4 | 1046.6 | 953.8 | 891.7 |
| 77.5° | 1535.8 | 1529.0 | 1482.4 | 1406.4 | 1320.3 | 1244.3 | 1176.0 | 1111.5 | 1043.2 | 952.8 | 891.3 |
| 80° | 1523.3 | 1516.5 | 1469.9 | 1391.0 | 1306.3 | 1231.8 | 1165.9 | 1103.8 | 1037.0 | 947.5 | 887.4 |
| 82.5° | 1508.8 | 1501.1 | 1452.6 | 1373.2 | 1289.5 | 1215.9 | 1152.9 | 1093.7 | 1028.8 | 941.3 | 881.6 |
| 85° | 1487.7 | 1481.9 | 1432.4 | 1351.6 | 1270.3 | 1199.6 | 1138.0 | 1081.7 | 1018.2 | 931.7 | 873.0 |
| 87.5° | 1463.1 | 1458.3 | 1406.9 | 1327.0 | 1245.7 | 1178.4 | 1120.7 | 1065.9 | 1006.2 | 921.1 | 863.4 |
| 90° | 1437.6 | 1431.9 | 1380.4 | 1299.1 | 1221.7 | 1155.3 | 1100.5 | 1049.0 | 991.3 | 908.1 | 850.9 |
| 92.5° | 1408.3 | 1401.6 | 1349.6 | 1270.7 | 1195.2 | 1131.7 | 1080.8 | 1030.3 | 974.5 | 893.2 | 837.9 |
| 95° | 1372.7 | 1366.5 | 1315.0 | 1236.1 | 1162.0 | 1104.3 | 1054.8 | 1008.1 | 954.7 | 875.4 | 822.0 |
| 97.5° | 1334.7 | 1328.9 | 1277.0 | 1201.5 | 1129.8 | 1073.1 | 1026.9 | 984.6 | 933.6 | 858.1 | 804.2 |
| 100° | 1293.8 | 1286.1 | 1234.7 | 1162.0 | 1091.3 | 1039.9 | 998.5 | 960.5 | 910.5 | 836.4 | 785.0 |
| 102.5° | 1250.5 | 1243.3 | 1194.3 | 1123.1 | 1056.7 | 1006.7 | 969.2 | 932.1 | 886.4 | 816.7 | 766.2 |
| 105° | 1201.5 | 1197.6 | 1148.1 | 1079.3 | 1017.3 | 971.1 | 936.0 | 903.8 | 860.5 | 792.7 | 746.5 |
| 107.5° | 1152.9 | 1145.2 | 1099.0 | 1033.1 | 974.9 | 933.1 | 902.8 | 873.0 | 833.5 | 768.6 | 724.8 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *1101.4* | 1093.7 | 1052.4 | 989.4 | 935.5 | 895.6 | 867.7 | 841.2 | 805.6 | 745.0 | 703.7 |
| 112.5° | *1049.5* | 1040.8 | 1000.0 | 942.2 | 889.8 | 857.1 | 831.6 | 809.5 | 777.3 | 721.5 | 680.6 |
| 115° | *993.2* | 989.9 | 949.9 | 894.6 | 848.4 | 817.7 | 795.5 | 775.3 | 745.0 | 696.0 | 658.5 |
| 117.5° | *937.9* | 931.7 | 897.0 | 846.0 | 803.2 | 774.4 | 757.5 | 739.7 | 712.3 | 666.2 | 633.5 |
| 120° | *878.3* | 876.8 | 843.6 | 796.0 | 756.1 | 733.5 | 717.1 | 702.2 | 678.2 | 636.3 | 605.6 |
| 122.5° | *822.0* | 819.1 | 787.4 | 744.6 | 711.4 | 690.2 | 677.2 | 664.2 | 643.6 | 604.6 | 575.7 |
| 125° | *762.4* | 759.0 | 734.0 | 698.9 | 667.1 | 646.9 | 634.4 | 624.3 | 605.6 | 570.4 | 543.5 |
| 127.5° | *707.0* | 703.7 | 681.1 | 647.4 | 622.4 | 604.1 | 592.6 | 583.4 | 564.7 | 534.4 | 510.8 |
| 130° | *652.2* | 646.4 | 626.7 | 599.8 | 574.8 | 562.3 | 550.7 | 544.0 | 524.7 | 496.4 | 475.7 |
| 132.5° | *593.5* | 590.6 | 576.7 | 551.7 | 531.5 | 518.5 | 508.4 | 499.7 | 484.8 | 458.9 | 440.1 |
| 135° | *541.6* | 538.7 | 525.7 | 504.5 | 490.6 | 478.6 | 469.4 | 460.3 | 444.9 | 419.9 | 404.0 |
| 137.5° | *492.0* | 489.6 | 478.1 | 463.7 | 445.9 | 438.7 | 432.4 | 421.3 | 407.9 | 385.3 | 370.8 |
| 140° | *440.1* | 441.1 | 431.9 | 418.9 | 407.9 | 399.2 | 393.0 | 383.8 | 370.4 | 351.1 | 336.7 |
| 142.5° | *397.3* | 398.7 | 387.7 | 378.5 | 368.4 | 361.7 | 355.4 | 347.7 | 334.8 | 317.4 | 306.4 |
| 145° | *356.9* | 353.5 | 349.2 | 340.5 | 330.9 | 326.6 | 320.3 | 313.6 | 303.5 | 286.2 | 277.0 |
| 147.5° | *316.0* | 315.0 | 310.7 | 304.9 | 297.2 | 290.5 | 285.7 | 281.9 | 271.8 | 257.3 | 249.1 |
| 150° | *279.0* | 278.0 | 275.6 | 271.3 | 264.5 | 260.2 | 256.4 | 251.1 | 241.5 | 230.4 | 223.2 |
| 152.5° | *246.3* | 246.3 | 244.8 | 239.0 | 236.2 | 231.4 | 226.5 | 223.7 | 214.0 | 204.9 | 198.6 |
| 155° | *217.9* | 217.9 | 216.0 | 213.1 | 207.8 | 204.9 | 202.0 | 197.7 | 190.9 | 183.7 | 178.0 |
| 157.5° | *193.4* | 193.8 | 191.4 | 189.0 | 185.2 | 182.8 | 179.9 | 175.6 | 171.2 | 164.5 | 160.2 |
| 160° | *171.7* | 172.2 | 171.2 | 169.3 | 165.5 | 163.1 | 160.6 | 157.3 | 153.4 | 148.1 | 144.3 |
| 162.5° | *154.4* | 153.9 | 153.0 | 151.0 | 148.6 | 147.2 | 144.3 | 141.9 | 138.5 | 134.7 | 131.3 |
| 165° | *140.9* | 139.5 | 139.0 | 137.6 | 135.2 | 133.7 | 131.3 | 129.4 | 127.0 | 123.1 | 121.7 |
| 167.5° | *128.9* | 128.9 | 127.9 | 127.0 | 125.1 | 123.1 | 121.2 | 119.8 | 117.8 | 115.4 | 113.5 |
| 170° | *119.3* | 119.3 | 118.3 | 117.4 | 115.4 | 114.5 | 113.0 | 111.6 | 110.1 | 108.2 | 107.3 |
| 172.5° | *111.6* | 111.6 | 111.1 | 109.7 | 108.7 | 107.3 | 106.8 | 105.3 | 103.9 | 102.9 | 102.0 |
| 175° | *105.8* | 105.8 | 104.9 | 103.9 | 102.9 | 102.0 | 101.0 | 100.5 | 100.0 | 99.1 | 98.6 |
| 177.5° | *101.5* | 101.0 | 100.5 | 99.6 | 98.6 | 98.1 | 97.6 | 97.2 | 97.2 | 96.7 | 96.2 |
| 180° | *95.7* | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 |
| 2.5° | 49.1 | 44.7 | 39.9 | 35.6 | 33.2 | 29.8 | 27.9 | 26.9 | 27.9 | 26.5 |
| 5° | 58.2 | 50.5 | 42.8 | 37.0 | 30.8 | 26.0 | 21.6 | 17.3 | 14.4 | 13.9 |
| 7.5° | 77.4 | 68.8 | 58.2 | 48.6 | 39.9 | 32.2 | 25.5 | 20.2 | 16.4 | 15.9 |
| 10° | 102.4 | 89.5 | 76.0 | 62.5 | 50.0 | 39.9 | 31.7 | 26.0 | 24.0 | 23.6 |
| 12.5° | 133.7 | 115.0 | 96.2 | 78.4 | 63.0 | 49.5 | 40.4 | 34.1 | 31.3 | 30.8 |
| 15° | 166.4 | 142.9 | 118.8 | 95.7 | 75.0 | 58.7 | 47.1 | 40.4 | 37.0 | 36.6 |
| 17.5° | 201.5 | 170.7 | 138.0 | 111.1 | 86.6 | 66.9 | 52.4 | 43.3 | 39.4 | 38.5 |
| 20° | 237.1 | 198.6 | 161.1 | 126.0 | 96.2 | 72.1 | 55.3 | 44.7 | 39.9 | 39.0 |
| 22.5° | 277.0 | 230.9 | 184.2 | 140.4 | 104.9 | 77.4 | 57.7 | 45.7 | 40.4 | 39.4 |
| 25° | 322.3 | 263.6 | 208.3 | 157.3 | 114.5 | 82.2 | 60.1 | 47.1 | 40.9 | 39.9 |
| 27.5° | 368.4 | 300.1 | 232.8 | 172.2 | 122.6 | 85.6 | 62.0 | 47.6 | 41.4 | 40.4 |
| 30° | 415.1 | 336.7 | 257.8 | 186.6 | 129.9 | 89.5 | 63.0 | 48.1 | 41.4 | 40.9 |
| 32.5° | 463.7 | 370.8 | 281.9 | 200.1 | 136.1 | 91.9 | 64.0 | 48.6 | 41.8 | 40.9 |
| 35° | 507.4 | 406.9 | 304.5 | 213.1 | 141.9 | 93.8 | 64.5 | 48.6 | 41.8 | 40.9 |
| 37.5° | 549.3 | 437.7 | 325.1 | 223.7 | 146.2 | 95.2 | 64.9 | 48.6 | 41.8 | 40.9 |
| 40° | 593.0 | 470.4 | 343.9 | 233.3 | 149.6 | 96.2 | 64.9 | 48.6 | 41.8 | 41.4 |
| 42.5° | 628.6 | 497.8 | 359.8 | 240.0 | 152.0 | 96.2 | 64.9 | 48.6 | 42.3 | 41.4 |
| 45° | 660.9 | 520.4 | 375.2 | 246.3 | 153.4 | 96.2 | 64.5 | 49.1 | 42.3 | 41.8 |
| 47.5° | 688.8 | 543.0 | 386.7 | 250.6 | 153.9 | 96.2 | 64.5 | 49.1 | 42.8 | 42.3 |
| 50° | 714.7 | 561.3 | 396.8 | 254.0 | 154.4 | 95.7 | 64.5 | 49.5 | 43.3 | 42.3 |
| 52.5° | 736.9 | 576.2 | 405.0 | 255.9 | 153.4 | 94.8 | 64.5 | 50.0 | 44.3 | 43.3 |
| 55° | 755.6 | 590.2 | 410.8 | 256.8 | 152.5 | 94.3 | 64.5 | 50.5 | 44.7 | 44.3 |
| 57.5° | 771.0 | 601.2 | 416.0 | 257.3 | 151.5 | 93.8 | 64.9 | 51.5 | 46.2 | 45.7 |
| 60° | 785.0 | 610.4 | 419.9 | 257.3 | 150.5 | 93.3 | 65.4 | 52.4 | 47.1 | 46.7 |
| 62.5° | 796.0 | 617.6 | 422.8 | 256.8 | 150.1 | 93.3 | 66.4 | 53.9 | 48.6 | 48.1 |
| 65° | 803.7 | 622.9 | 424.2 | 255.9 | 149.1 | 93.8 | 67.3 | 55.3 | 50.5 | 50.0 |
| 67.5° | 810.9 | 627.7 | 425.2 | 255.4 | 148.6 | 94.3 | 68.8 | 57.2 | 52.4 | 51.9 |
| 70° | 815.3 | 630.6 | 425.7 | 254.9 | 148.1 | 95.2 | 70.2 | 59.2 | 54.8 | 54.4 |
| 72.5° | 817.2 | 632.5 | 426.1 | 254.0 | 148.6 | 96.2 | 72.1 | 61.1 | 57.2 | 56.8 |
| 73° | *817.7* | *632.5* | *425.7* | *254.0* | *148.6* | *96.7* | *72.6* | *62.0* | *57.7* | *57.2* |
| 75° | 818.6 | 632.5 | 425.2 | 253.5 | 149.1 | 97.6 | 74.1 | 64.0 | 59.6 | 59.6 |
| 77.5° | 817.2 | 631.5 | 424.2 | 253.0 | 149.6 | 99.6 | 76.5 | 66.4 | 62.5 | 62.0 |
| 80° | 814.3 | 629.1 | 422.8 | 253.0 | 150.5 | 101.5 | 79.4 | 69.3 | 65.4 | 64.9 |
| 82.5° | 808.0 | 624.8 | 420.9 | 252.5 | 152.0 | 103.9 | 82.2 | 72.1 | 68.8 | 68.3 |
| 85° | 801.8 | 619.5 | 418.0 | 252.5 | 153.9 | 106.8 | 85.1 | 75.5 | 72.1 | 71.7 |
| 87.5° | 792.2 | 613.2 | 415.1 | 252.0 | 155.8 | 109.2 | 88.0 | 78.9 | 75.0 | 75.0 |
| 90° | 781.1 | 606.5 | 412.2 | 252.5 | 157.8 | 112.5 | 91.9 | 82.7 | 78.9 | 78.4 |
| 92.5° | 770.0 | 598.8 | 408.8 | 253.5 | 161.1 | 115.9 | 95.7 | 86.6 | 82.7 | 81.8 |
| 95° | 755.1 | 588.2 | 405.0 | 254.0 | 164.0 | 119.8 | 99.6 | 90.4 | 86.6 | 86.6 |
| 97.5° | 739.7 | 578.6 | 400.7 | 255.4 | 167.9 | 124.6 | 104.9 | 95.2 | 91.4 | 91.4 |
| 100° | 723.4 | 568.5 | 397.8 | 256.8 | 171.7 | 129.9 | 109.7 | 100.0 | 96.2 | 96.2 |
| 102.5° | 706.1 | 557.5 | 394.9 | 259.7 | 177.5 | 135.2 | 115.4 | 105.8 | 101.5 | 101.5 |
| 105° | 688.3 | 546.9 | 392.0 | 263.1 | 183.3 | 141.9 | 121.7 | 112.1 | 107.7 | 107.7 |
| 107.5° | 671.0 | 536.8 | 389.6 | 267.4 | 189.5 | 148.6 | 127.9 | 118.3 | 114.0 | 113.0 |

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

Scaled Data Report

REPORT NUMBER: P1224036
CATALOG NUMBER: FFX-CLB-50-730-U-VM8-T4-HSS

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 652.7 | 526.2 | 387.7 | 271.8 | 196.7 | 156.3 | 135.6 | 124.6 | 119.8 | 119.8 |
| 112.5° | 633.0 | 515.1 | 386.2 | 276.1 | 204.4 | 164.0 | 142.4 | 131.3 | 126.5 | 125.5 |
| 115° | 612.3 | 504.1 | 383.3 | 280.9 | 211.2 | 171.7 | 149.6 | 137.1 | 131.8 | 131.3 |
| 117.5° | 592.1 | 491.1 | 380.0 | 284.3 | 217.4 | 178.0 | 155.4 | 142.9 | 137.1 | 136.6 |
| 120° | 568.5 | 476.7 | 374.2 | 285.2 | 222.2 | 182.8 | 160.2 | 146.7 | 140.9 | 140.0 |
| 122.5° | 542.5 | 457.9 | 366.0 | 284.3 | 224.6 | 186.1 | 163.1 | 149.6 | 142.9 | 142.4 |
| 125° | 513.2 | 437.2 | 355.4 | 280.9 | 225.1 | 187.6 | 164.0 | 150.1 | 143.8 | 142.9 |
| 127.5° | 482.4 | 416.5 | 341.5 | 274.2 | 222.2 | 186.6 | 163.1 | 149.1 | 142.4 | 141.9 |
| 130° | 450.7 | 392.0 | 325.1 | 265.5 | 217.4 | 183.3 | 160.6 | 146.7 | 140.0 | 139.5 |
| 132.5° | 418.9 | 366.0 | 307.3 | 254.0 | 210.7 | 178.0 | 156.3 | 142.9 | 136.6 | 135.6 |
| 135° | 384.8 | 340.5 | 289.1 | 241.9 | 201.5 | 172.2 | 151.0 | 138.0 | 131.8 | 131.3 |
| 137.5° | 353.5 | 314.1 | 270.3 | 228.5 | 192.9 | 164.5 | 145.3 | 133.2 | 127.9 | 127.0 |
| 140° | 322.7 | 288.6 | 250.1 | 214.0 | 181.8 | 156.8 | 138.5 | 127.9 | 122.6 | 122.2 |
| 142.5° | 294.4 | 265.0 | 232.3 | 200.1 | 171.7 | 149.1 | 132.8 | 122.6 | 118.3 | 117.4 |
| 145° | 265.0 | 240.5 | 213.6 | 185.7 | 160.6 | 140.9 | 126.5 | 117.4 | 113.5 | 112.5 |
| 147.5° | 239.5 | 217.9 | 194.8 | 171.2 | 150.5 | 132.8 | 120.2 | 112.5 | 109.2 | 108.7 |
| 150° | 215.5 | 197.2 | 177.0 | 157.8 | 139.5 | 125.1 | 114.5 | 107.7 | 104.9 | 104.4 |
| 152.5° | 193.8 | 178.0 | 161.6 | 145.3 | 129.9 | 118.3 | 109.2 | 103.4 | 101.0 | 101.0 |
| 155° | 173.6 | 160.6 | 147.7 | 134.2 | 122.2 | 112.5 | 105.3 | 100.5 | 98.6 | 98.1 |
| 157.5° | 156.3 | 146.2 | 135.6 | 124.6 | 115.4 | 107.3 | 101.5 | 98.1 | 96.2 | 96.2 |
| 160° | 141.4 | 133.7 | 125.1 | 116.9 | 109.7 | 102.9 | 98.6 | 95.7 | 94.3 | 94.3 |
| 162.5° | 129.4 | 123.1 | 116.4 | 110.1 | 103.9 | 99.6 | 96.2 | 94.3 | 93.3 | 93.3 |
| 165° | 119.3 | 115.0 | 110.1 | 104.9 | 100.5 | 97.2 | 94.8 | 93.3 | 92.8 | 92.8 |
| 167.5° | 112.1 | 108.2 | 104.4 | 101.0 | 98.1 | 95.2 | 93.8 | 92.8 | 92.8 | 92.3 |
| 170° | 105.8 | 103.4 | 100.0 | 97.6 | 95.2 | 93.8 | 92.8 | 92.3 | 92.3 | 91.9 |
| 172.5° | 101.0 | 99.1 | 97.2 | 95.2 | 93.8 | 92.8 | 92.3 | 92.3 | 92.3 | 92.3 |
| 175° | 98.1 | 96.7 | 95.2 | 94.3 | 93.3 | 92.3 | 92.3 | 92.8 | 92.8 | 92.8 |
| 177.5° | 95.7 | 95.2 | 94.3 | 93.8 | 93.3 | 93.3 | 93.3 | 93.8 | 94.3 | 94.3 |
| 180° | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 |

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: SP1-2501-332-4

Test Date: 03/21/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

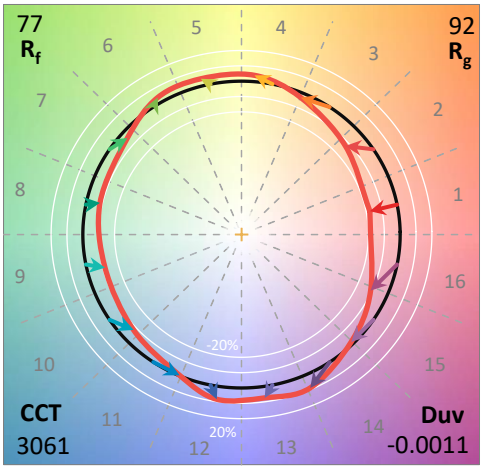
## Test Information

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

## Spectral Parameters

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

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




## Test Conditions

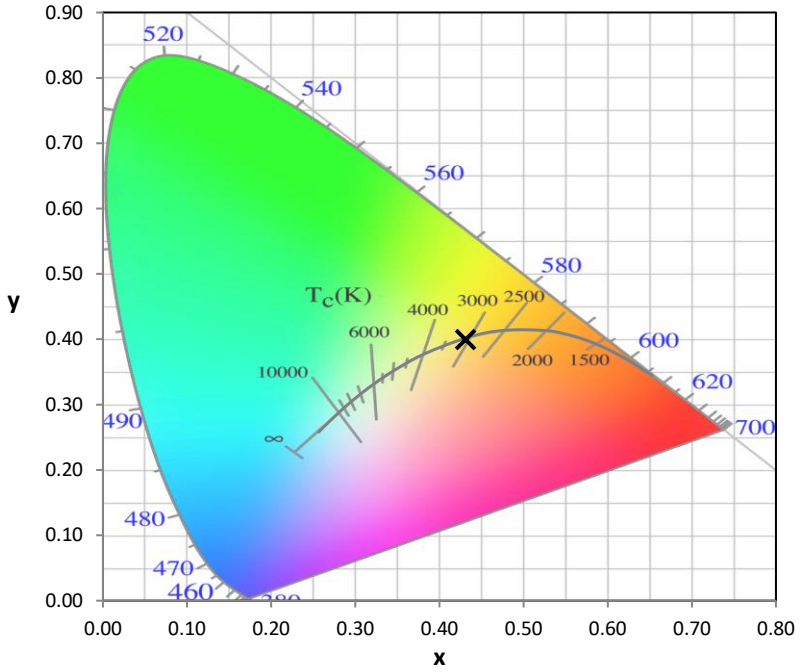
| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 1H 56M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-4

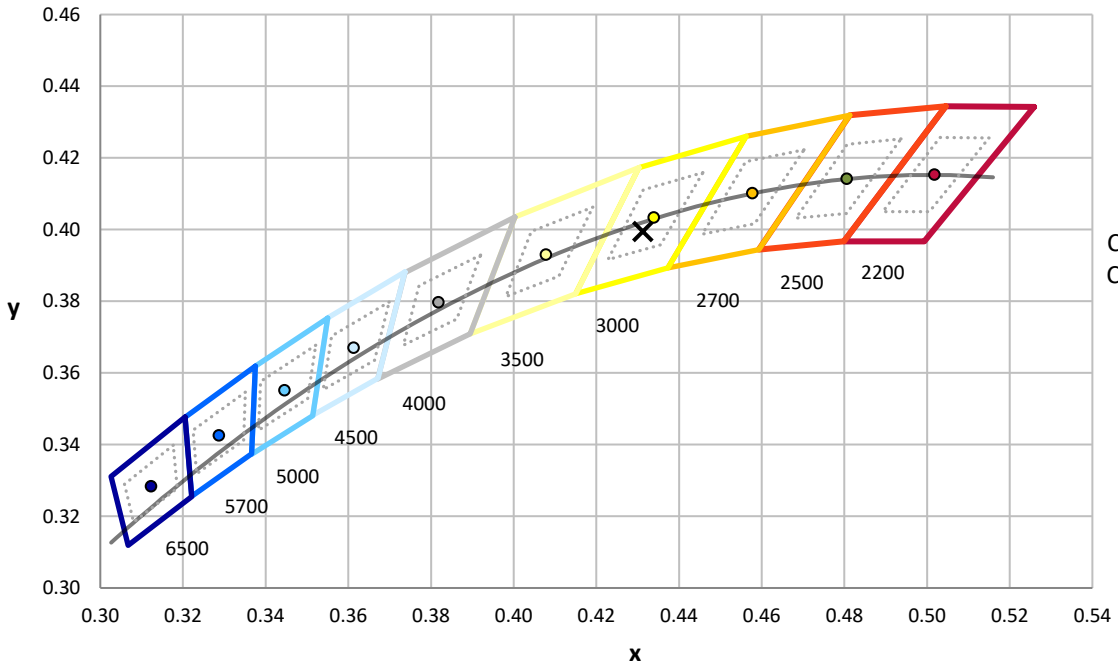
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

REPORT NUMBER: SP1-2501-332-4

## CIE 1931 Chromaticity Diagram




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

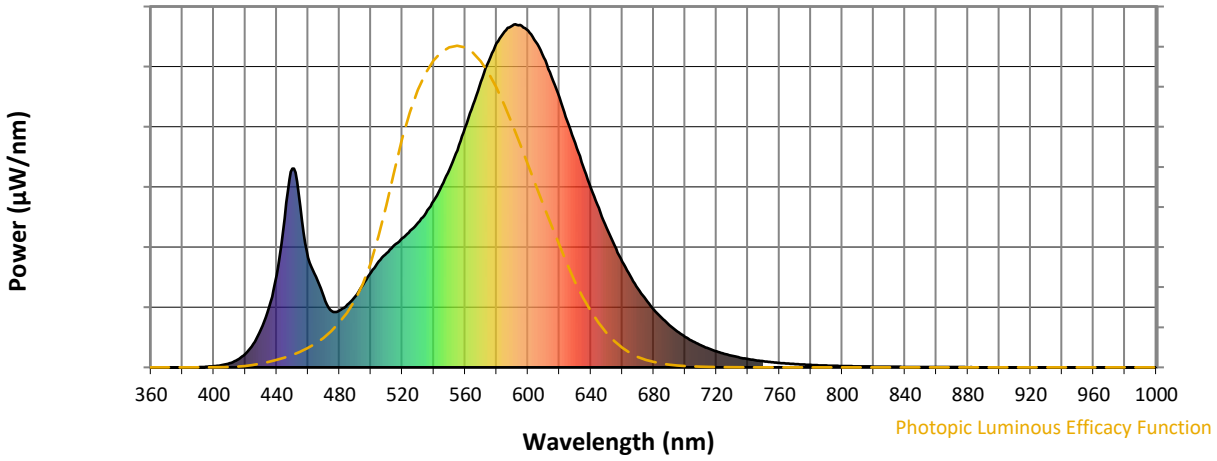



CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

## Photopic Flux vs. Wavelength

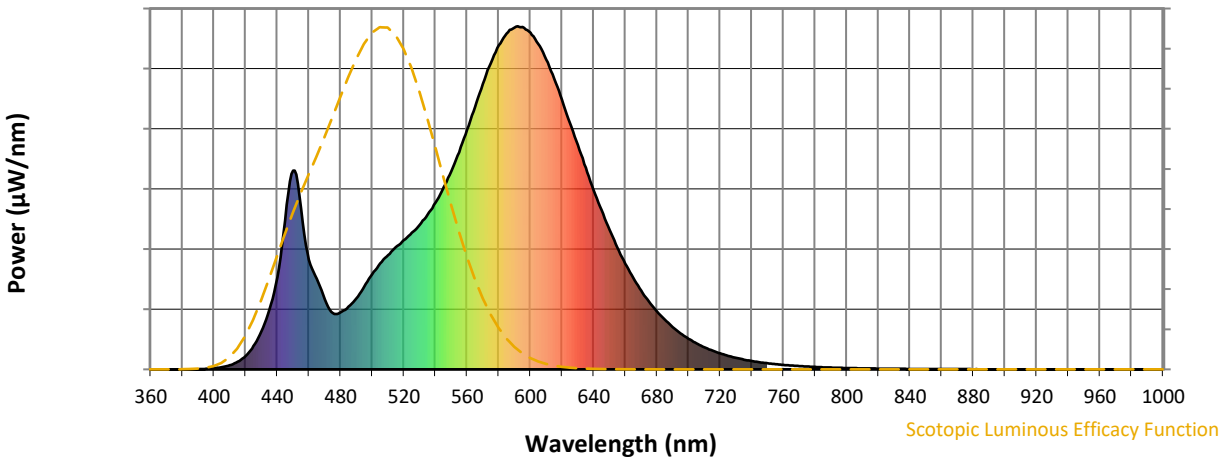



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Scotopic Flux vs. Wavelength

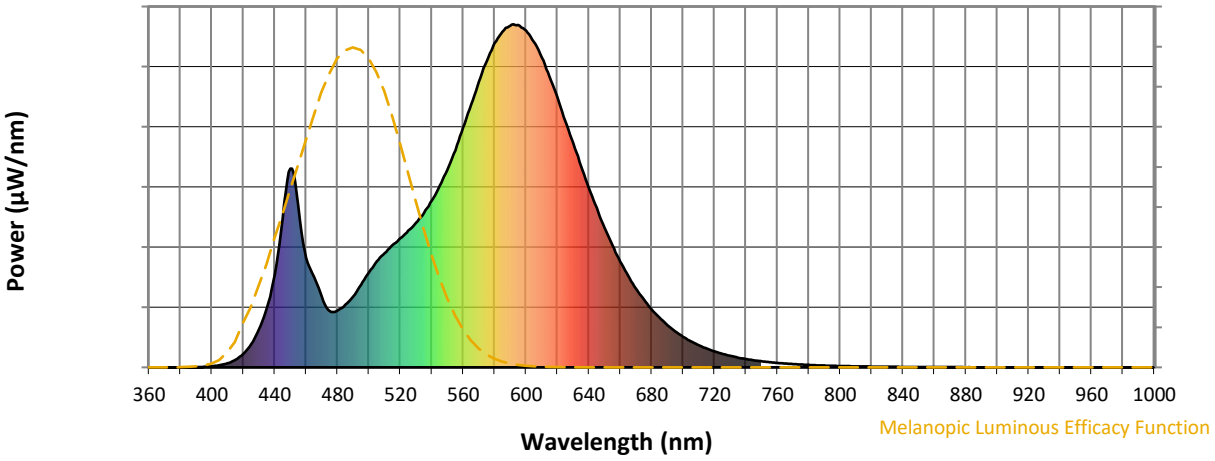



**Scotopic Lumens: NR** **S/P: 1.29**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Melanopic Flux vs. Wavelength




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

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

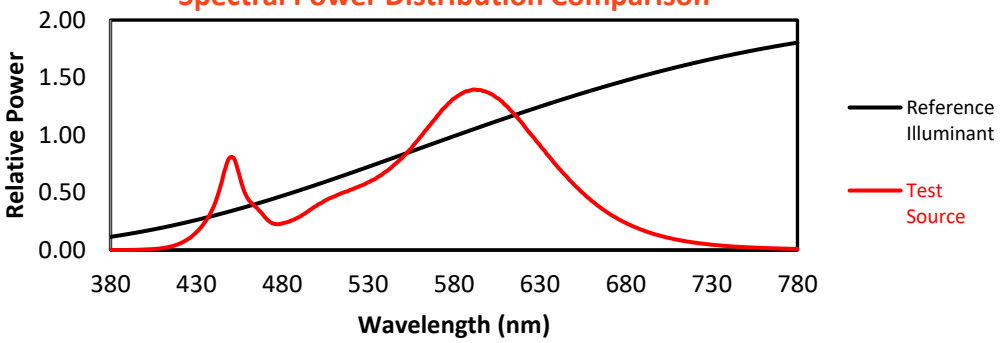
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

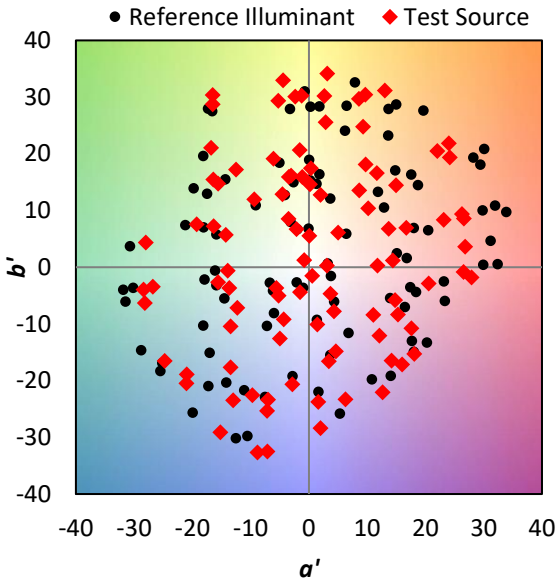
## Summary

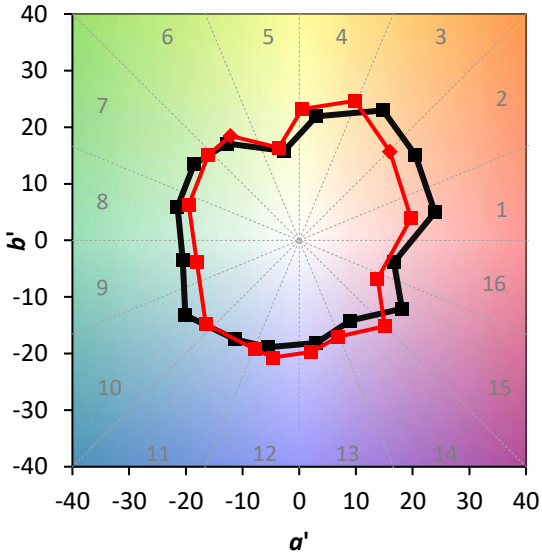
$R_f$ = 76.8
$R_g$ = 92.2
CIE $R_a$ = 71.7
$R_9$ = -40.3

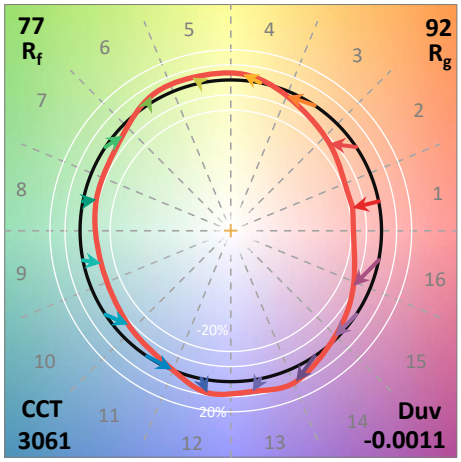
## Spectral Power Distribution Comparison

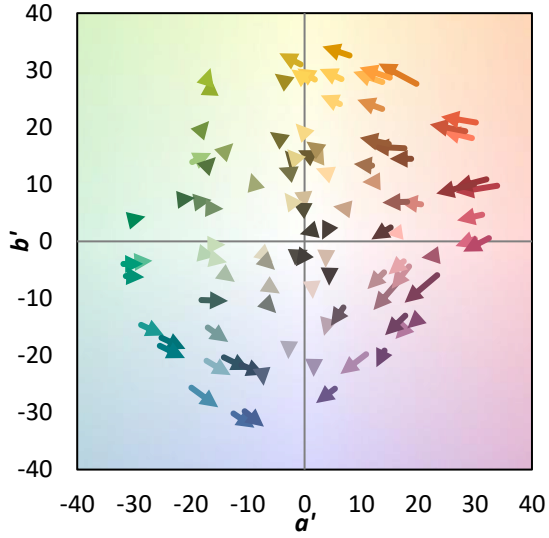



## Color Vector Graphics



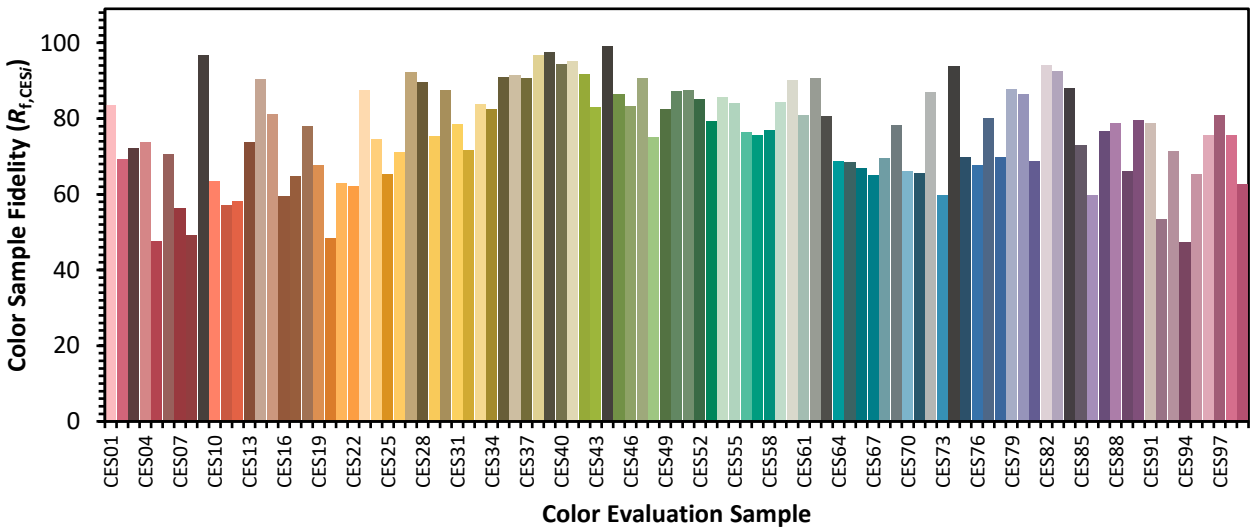



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**Individual Sample Fidelity Index ($R_{f,i}$)**

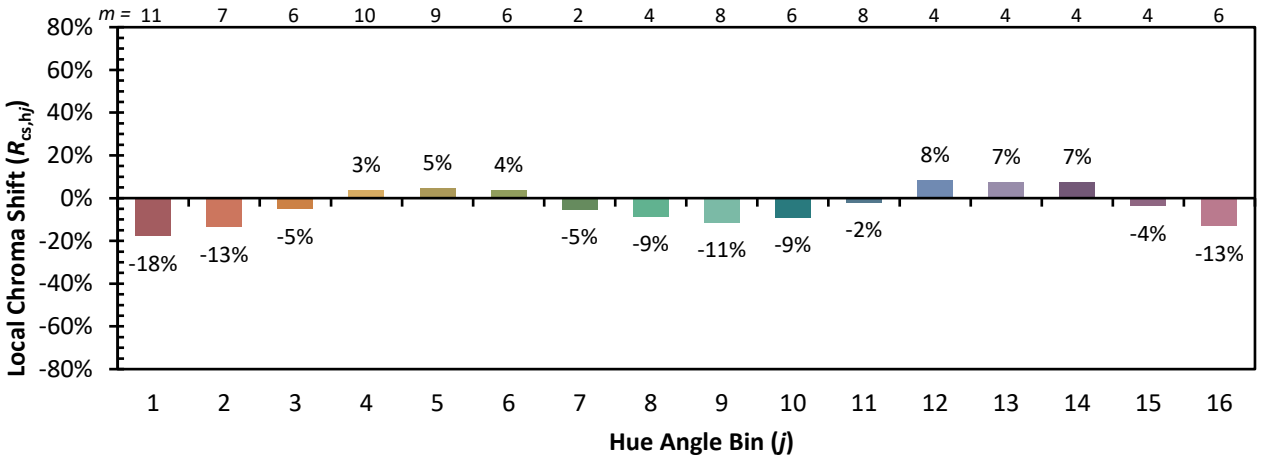
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 71 | CES51 = 88 | CES76 = 68 |
| CES02 = 62 | CES27 = 92 | CES52 = 85 | CES77 = 80 |
| CES03 = 31 | CES28 = 90 | CES53 = 79 | CES78 = 70 |
| CES04 = 71 | CES29 = 75 | CES54 = 86 | CES79 = 88 |
| CES05 = 49 | CES30 = 87 | CES55 = 84 | CES80 = 87 |
| CES06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

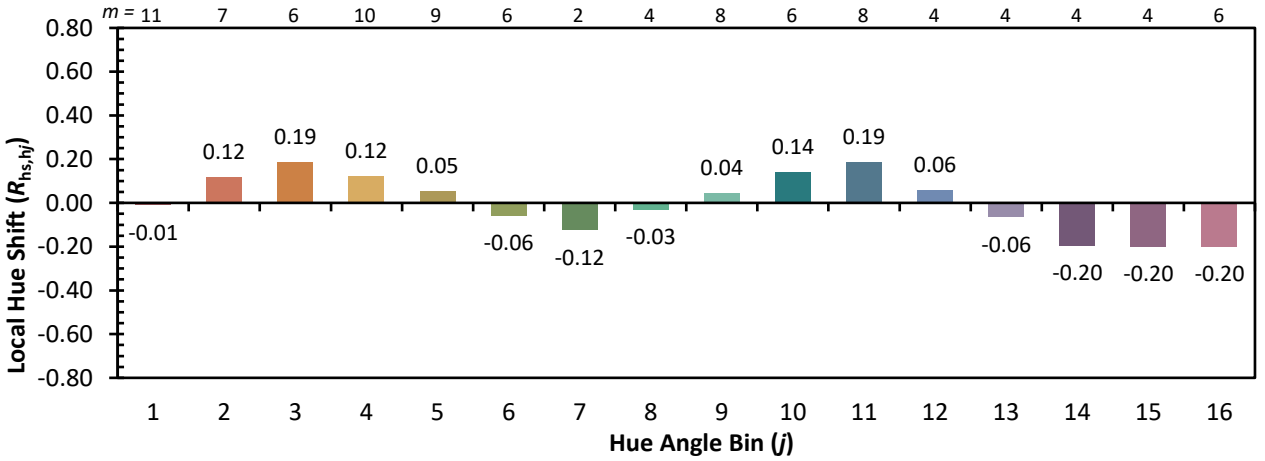


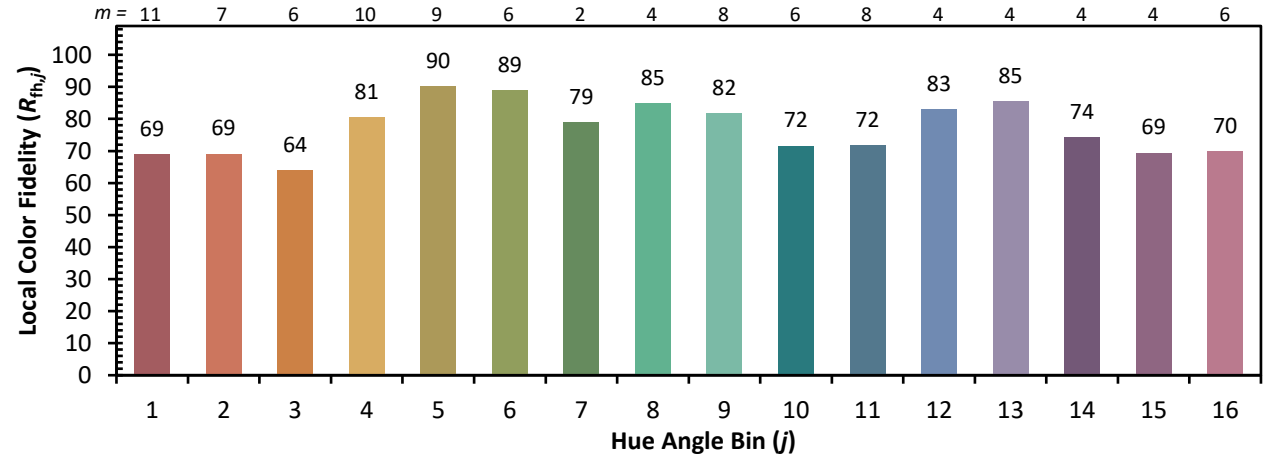
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## Color Rendition by Hue-Angle Bin



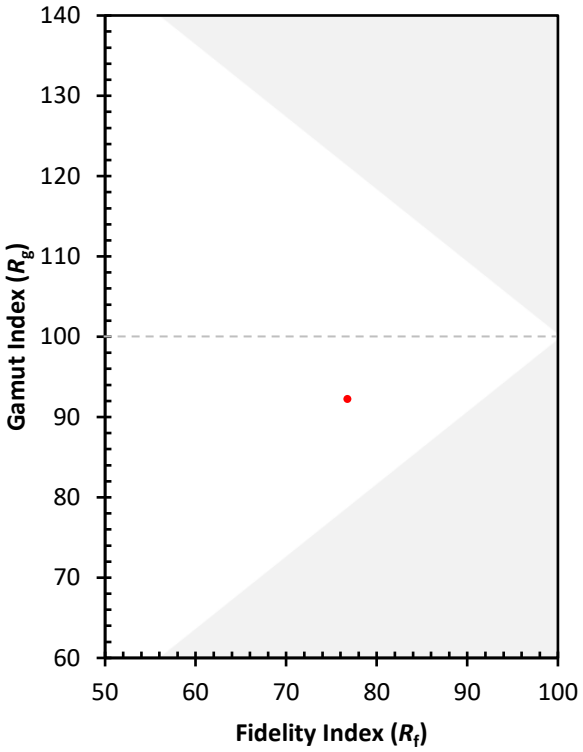



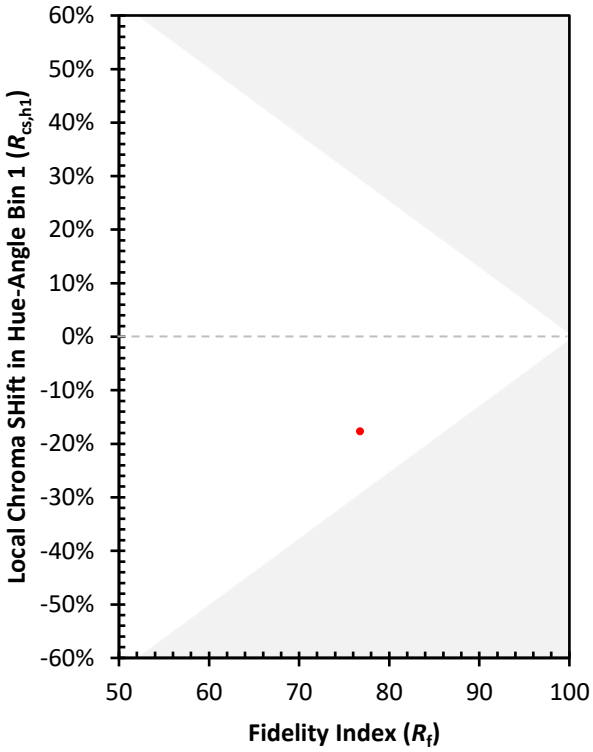



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## Measure Comparisons




(END OF REPORT)