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: P1045853

Luminaire Tested: **FFX-CLB-60-740-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1045853 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-60-740-U-VM8-T5-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD |
| Light Source: | (6) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6799.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 112.2 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): | 60.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 8.53% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

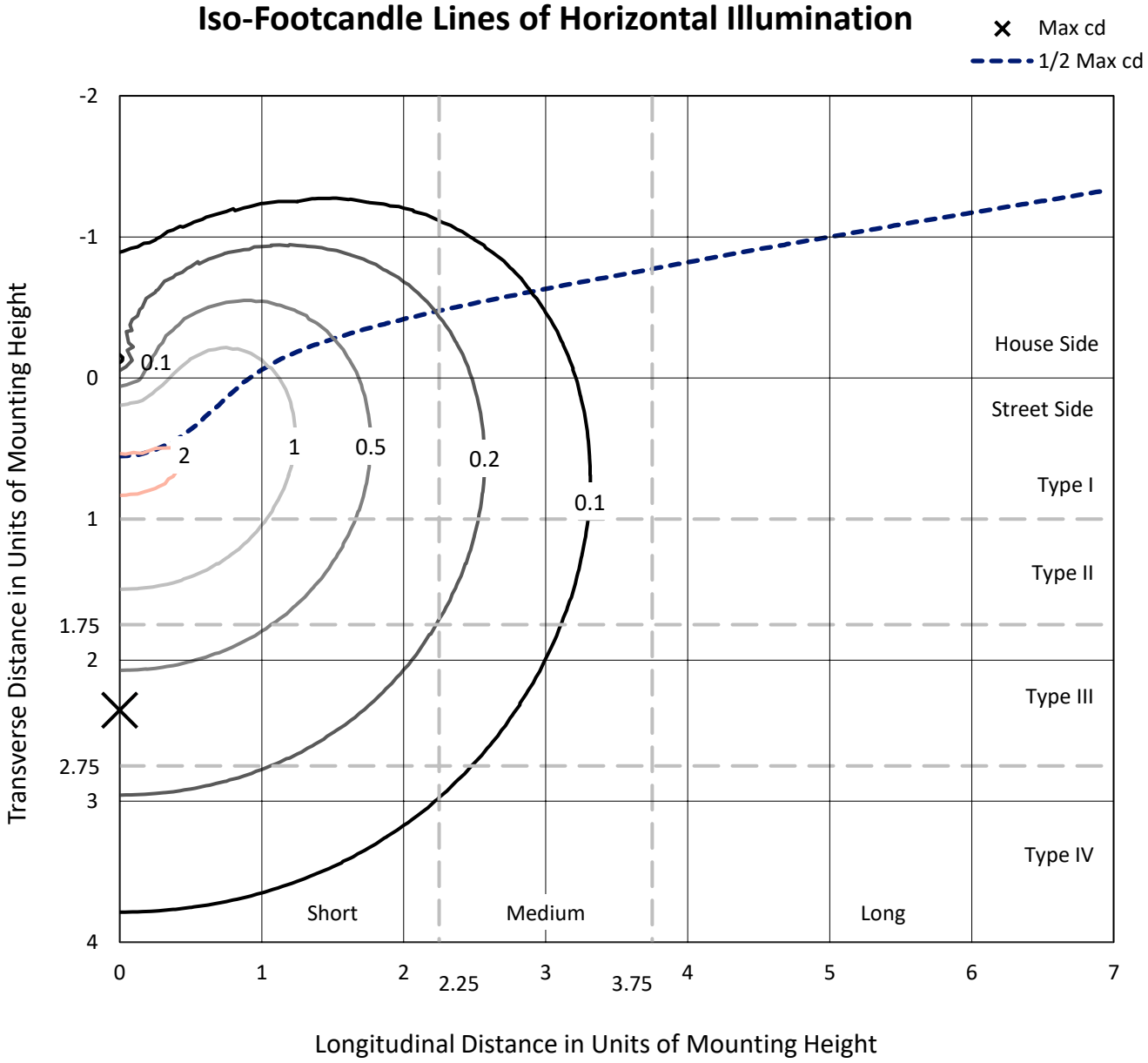


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REPORT NUMBER: P1045853
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## Iso-Footcandle Lines of Horizontal Illumination



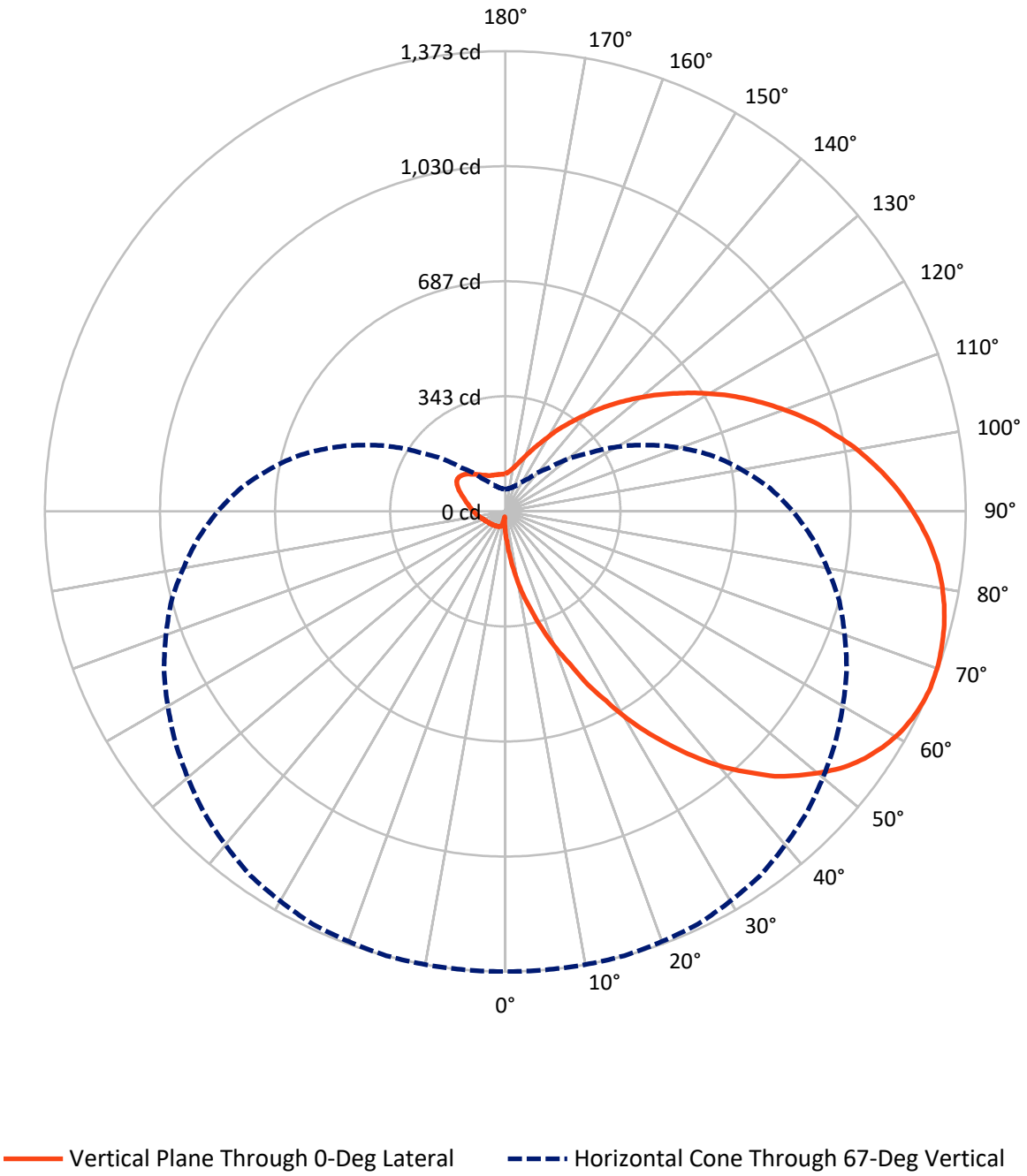

Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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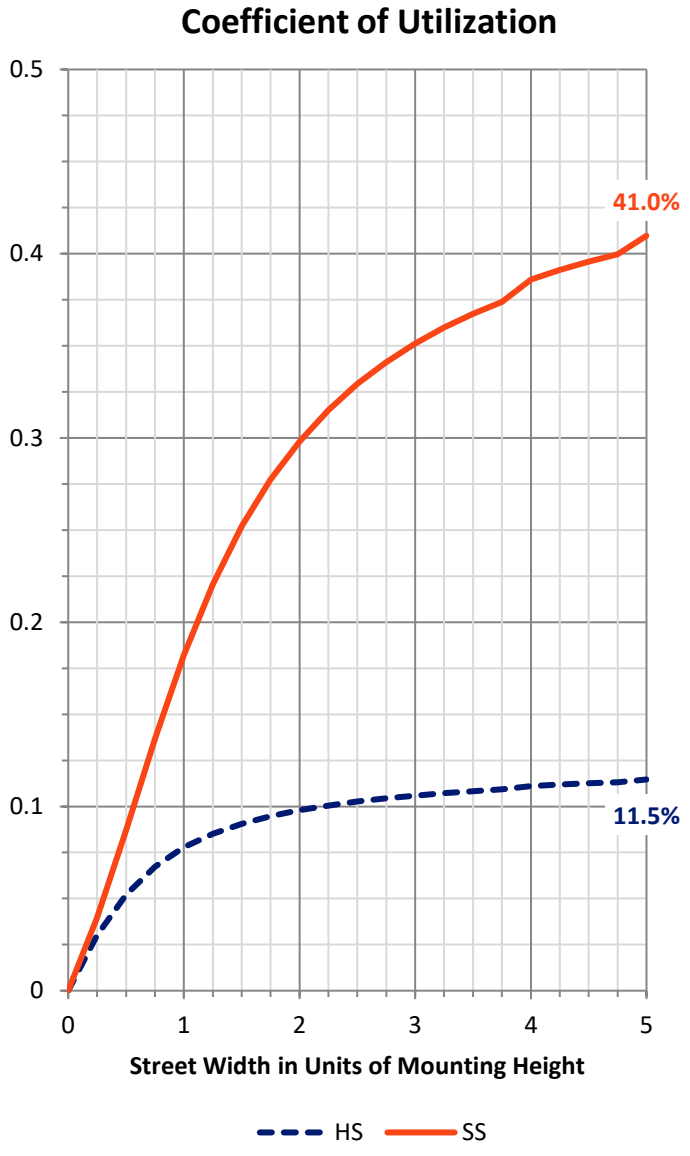
REPORT NUMBER: P1045853
CATALOG NUMBER: FFX-CLB-60-740-U-VM8-T5-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 841.9 | 802.2 | 1644.1 |
| | % Fixture | 12.4 | 11.8 | 24.2 |
| **Street Side** | Lumens | 3174.7 | 1980.3 | 5155.0 |
| | % Fixture | 46.7 | 29.1 | 75.8 |
| **Total** | Lumens | 4016.7 | 2782.5 | 6799.1 |
| | % Fixture | 59.1 | 40.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 9.0 | 0.1 |
| 10°-20° | 56.5 | 0.8 |
| 20°-30° | 157.7 | 2.3 |
| 30°-40° | 315.7 | 4.6 |
| 40°-50° | 496.0 | 7.3 |
| 50°-60° | 652.3 | 9.6 |
| 60°-70° | 753.1 | 11.1 |
| 70°-80° | 794.8 | 11.7 |
| 80°-90° | 781.6 | 11.5 |
| 90°-100° | 717.4 | 10.6 |
| 100°-110° | 620.5 | 9.1 |
| 110°-120° | 509.3 | 7.5 |
| 120°-130° | 388.3 | 5.7 |
| 130°-140° | 261.5 | 3.8 |
| 140°-150° | 155.0 | 2.3 |
| 150°-160° | 81.5 | 1.2 |
| 160°-170° | 38.0 | 0.6 |
| 170°-180° | 11.0 | 0.2 |
| 0°-90° | 4016.7 | 59.1 |
| 0°-180° | 6799.1 | 100.0 |



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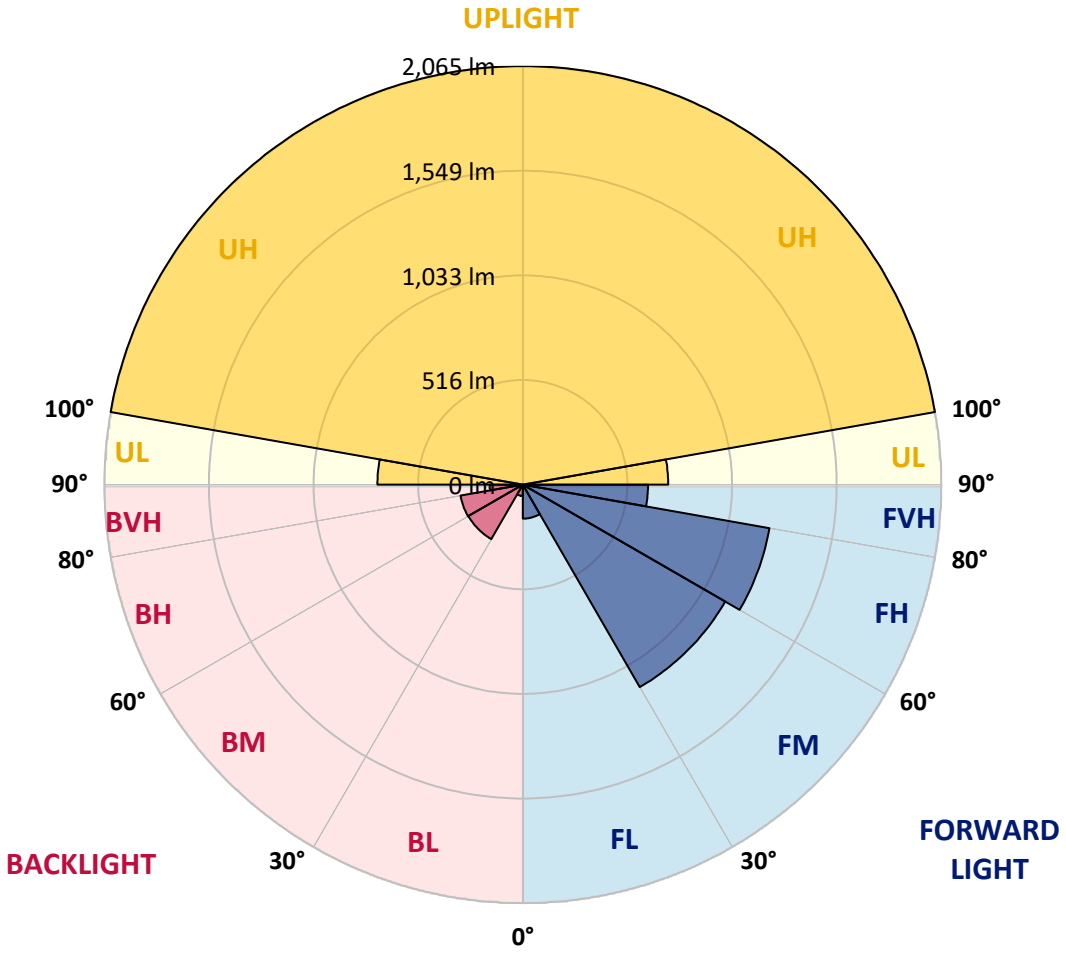
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REPORT NUMBER: P1045853
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 167.8 | 2.5 | | | |
| FM | (30°-60°) | 1153.5 | 17.0 | | | |
| FH | (60°-80°) | 1235.7 | 18.2 | | | G1/1800 |
| FVH | (80°-90°) | 617.7 | 9.1 | | | G4/750 |
| BL | (0°-30°) | 55.5 | 0.8 | B0/110 | | |
| BM | (30°-60°) | 310.5 | 4.6 | B1/1000 | | |
| BH | (60°-80°) | 312.1 | 4.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 163.9 | 2.4 | | | G2/225 |
| UL | (90°-100°) | 717.4 | 10.6 | | U4/1000 | |
| UH | (100°-180°) | 2065.0 | 30.4 | | U5 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | *66.2* | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 |
| 2.5° | *87.8* | 89.3 | 89.3 | 88.5 | 87.8 | 86.3 | 84.8 | 81.8 | 75.9 | 71.4 | 66.9 |
| 5° | *127.2* | 127.2 | 127.9 | 127.2 | 124.2 | 121.3 | 114.6 | 109.4 | 99.7 | 92.2 | 84.1 |
| 7.5° | *172.6* | 174.8 | 174.1 | 171.8 | 166.6 | 159.9 | 151.8 | 142.1 | 132.4 | 121.3 | 108.6 |
| 10° | *223.2* | 222.4 | 222.4 | 219.4 | 213.5 | 204.6 | 195.6 | 184.5 | 170.3 | 156.2 | 139.9 |
| 12.5° | *270.8* | 273.0 | 271.5 | 267.8 | 260.4 | 253.7 | 242.5 | 229.9 | 213.5 | 198.6 | 176.3 |
| 15° | *322.1* | 323.6 | 323.6 | 321.4 | 314.7 | 305.0 | 292.3 | 280.4 | 258.9 | 238.0 | 216.5 |
| 17.5° | *380.9* | 378.6 | 375.7 | 375.7 | 367.5 | 359.3 | 346.7 | 330.3 | 306.5 | 283.4 | 254.4 |
| 20° | *439.6* | 438.9 | 435.2 | 432.9 | 427.7 | 415.8 | 399.5 | 380.9 | 357.1 | 331.0 | 296.8 |
| 22.5° | *494.7* | 502.1 | 501.4 | 497.7 | 491.0 | 479.1 | 461.2 | 438.9 | 414.3 | 381.6 | 342.2 |
| 25° | *572.8* | 568.3 | 569.1 | 565.4 | 559.4 | 545.3 | 527.4 | 501.4 | 471.6 | 435.2 | 390.5 |
| 27.5° | *640.5* | 639.0 | 639.0 | 636.8 | 628.6 | 613.7 | 592.9 | 568.3 | 534.1 | 491.0 | 441.1 |
| 30° | *718.6* | 714.9 | 713.4 | 711.2 | 703.0 | 686.6 | 665.0 | 634.5 | 597.3 | 553.5 | 494.7 |
| 32.5° | *792.2* | 789.3 | 784.1 | 783.3 | 777.4 | 760.3 | 735.7 | 704.5 | 662.1 | 610.7 | 546.0 |
| 35° | *862.9* | 864.4 | 862.2 | 858.4 | 850.3 | 833.9 | 810.1 | 772.2 | 730.5 | 671.0 | 601.1 |
| 37.5° | *934.3* | 933.6 | 935.1 | 932.1 | 919.4 | 903.8 | 875.6 | 835.4 | 787.8 | 723.1 | 649.4 |
| 40° | *1004.2* | 1000.5 | 999.8 | 996.8 | 987.9 | 972.3 | 940.3 | 899.4 | 845.8 | 778.8 | 695.5 |
| 42.5° | *1064.5* | 1066.0 | 1064.5 | 1061.5 | 1049.6 | 1031.8 | 998.3 | 952.9 | 896.4 | 824.2 | 738.7 |
| 45° | *1127.7* | 1125.5 | 1124.8 | 1124.8 | 1109.1 | 1090.5 | 1054.1 | 1007.2 | 944.0 | 866.6 | 775.9 |
| 47.5° | *1177.6* | 1180.5 | 1179.1 | 1175.3 | 1164.9 | 1141.9 | 1103.2 | 1051.9 | 985.6 | 906.1 | 809.3 |
| 50° | *1224.4* | 1228.2 | 1228.9 | 1225.2 | 1212.5 | 1187.2 | 1147.1 | 1089.8 | 1022.8 | 938.8 | 838.4 |
| 52.5° | *1267.6* | 1266.8 | 1269.1 | 1266.8 | 1254.9 | 1228.9 | 1182.8 | 1124.8 | 1052.6 | 966.3 | 860.7 |
| 55° | *1301.1* | 1301.1 | 1302.5 | 1299.6 | 1288.4 | 1259.4 | 1211.8 | 1150.0 | 1076.4 | 987.9 | 880.0 |
| 57.5° | *1327.8* | 1329.3 | 1328.6 | 1327.8 | 1315.2 | 1284.7 | 1234.1 | 1170.1 | 1095.7 | 1003.5 | 894.2 |
| 60° | *1348.7* | 1349.4 | 1349.4 | 1347.9 | 1335.3 | 1303.3 | 1252.0 | 1185.8 | 1108.4 | 1016.9 | 905.3 |
| 62.5° | *1362.1* | 1362.8 | 1362.8 | 1361.3 | 1348.7 | 1315.9 | 1263.9 | 1195.4 | 1117.3 | 1025.1 | 912.7 |
| 65° | *1370.2* | 1371.0 | 1371.0 | 1369.5 | 1356.8 | 1323.4 | 1269.8 | 1200.6 | 1121.8 | 1029.5 | 917.2 |
| 67° | *1373.2* | *1373.2* | *1373.2* | *1372.5* | *1359.1* | *1326.3* | *1271.3* | *1201.4* | *1123.3* | *1031.0* | *919.4* |
| 67.5° | *1372.5* | 1372.5 | 1373.2 | 1371.7 | 1359.1 | 1325.6 | 1270.6 | 1201.4 | 1122.5 | 1031.0 | 919.4 |
| 70° | *1370.2* | 1370.2 | 1370.2 | 1368.8 | 1356.1 | 1322.6 | 1267.6 | 1197.7 | 1120.3 | 1029.5 | 918.7 |
| 72.5° | *1362.1* | 1362.8 | 1362.8 | 1361.3 | 1348.7 | 1315.9 | 1260.9 | 1191.0 | 1114.3 | 1025.1 | 916.5 |
| 75° | *1352.4* | 1352.4 | 1352.4 | 1350.9 | 1338.3 | 1305.5 | 1251.2 | 1182.0 | 1106.9 | 1019.1 | 912.0 |
| 77.5° | *1338.3* | 1338.3 | 1338.3 | 1336.8 | 1324.1 | 1292.1 | 1238.6 | 1170.9 | 1097.2 | 1010.9 | 906.8 |
| 80° | *1320.4* | 1321.1 | 1320.4 | 1318.9 | 1306.3 | 1274.3 | 1222.9 | 1156.7 | 1084.6 | 1001.3 | 899.4 |
| 82.5° | *1299.6* | 1300.3 | 1299.6 | 1296.6 | 1284.7 | 1254.2 | 1202.9 | 1138.1 | 1069.7 | 988.6 | 890.4 |
| 85° | *1272.8* | 1272.0 | 1272.8 | 1268.3 | 1257.9 | 1227.4 | 1180.5 | 1117.3 | 1051.1 | 973.7 | 877.8 |
| 87.5° | *1242.3* | 1243.0 | 1241.5 | 1239.3 | 1226.7 | 1196.9 | 1152.3 | 1093.5 | 1029.5 | 955.9 | 862.9 |
| 90° | *1208.8* | 1208.8 | 1208.1 | 1205.1 | 1191.7 | 1164.9 | 1122.5 | 1066.0 | 1006.5 | 935.8 | 847.3 |
| 92.5° | *1174.6* | 1173.9 | 1171.6 | 1170.1 | 1158.2 | 1130.7 | 1089.8 | 1039.2 | 983.4 | 915.7 | 830.9 |
| 95° | *1136.7* | 1136.7 | 1135.2 | 1132.2 | 1118.8 | 1096.5 | 1057.1 | 1009.5 | 956.6 | 894.2 | 813.8 |
| 97.5° | *1096.5* | 1095.7 | 1095.0 | 1090.5 | 1078.6 | 1056.3 | 1024.3 | 978.2 | 929.9 | 871.1 | 794.5 |
| 100° | *1057.1* | 1054.8 | 1053.3 | 1048.9 | 1038.5 | 1016.9 | 986.4 | 946.2 | 899.4 | 845.8 | 773.6 |
| 102.5° | *1010.9* | 1010.9 | 1010.2 | 1005.7 | 992.3 | 974.5 | 947.0 | 911.3 | 871.1 | 819.8 | 751.3 |
| 105° | *970.0* | 966.3 | 964.8 | 960.4 | 949.9 | 930.6 | 907.5 | 876.3 | 839.1 | 791.5 | 729.0 |
| 107.5° | *923.9* | 920.9 | 920.2 | 913.5 | 905.3 | 887.5 | 868.1 | 839.1 | 807.9 | 765.5 | 705.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 10° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *877.0* | 875.6 | 874.8 | 868.1 | 857.7 | 845.8 | 825.7 | 802.7 | 775.1 | 736.4 | 684.4 |
| 112.5° | *830.9* | 829.4 | 829.4 | 824.2 | 814.6 | 799.7 | 785.5 | 765.5 | 740.9 | 707.4 | 659.1 |
| 115° | *785.5* | 783.3 | 782.6 | 776.6 | 766.9 | 755.8 | 741.7 | 727.5 | 706.7 | 678.4 | 634.5 |
| 117.5° | *740.2* | 737.2 | 737.9 | 732.7 | 725.3 | 714.1 | 700.7 | 691.1 | 673.2 | 647.2 | 610.0 |
| 120° | *693.3* | 694.0 | 694.0 | 687.4 | 680.7 | 671.7 | 660.6 | 650.9 | 639.0 | 615.9 | 581.7 |
| 122.5° | *648.7* | 650.2 | 650.2 | 645.7 | 637.5 | 629.3 | 621.9 | 613.0 | 602.5 | 584.7 | 554.2 |
| 125° | *604.0* | 607.0 | 605.5 | 601.8 | 595.1 | 586.2 | 581.0 | 573.5 | 565.4 | 550.5 | 523.7 |
| 127.5° | *563.1* | 563.1 | 559.4 | 560.1 | 553.5 | 546.0 | 541.5 | 536.3 | 528.2 | 514.0 | 492.5 |
| 130° | *520.7* | 521.5 | 522.2 | 517.7 | 511.8 | 505.8 | 501.4 | 499.1 | 492.5 | 480.6 | 459.0 |
| 132.5° | *482.0* | 482.0 | 480.6 | 477.6 | 472.4 | 467.9 | 467.9 | 461.2 | 456.0 | 444.8 | 426.2 |
| 135° | *444.1* | 443.4 | 443.4 | 440.4 | 436.7 | 434.4 | 429.2 | 426.2 | 421.0 | 410.6 | 396.5 |
| 137.5° | *406.9* | 408.4 | 406.9 | 404.7 | 401.0 | 398.0 | 394.3 | 393.5 | 386.1 | 378.6 | 363.0 |
| 140° | *371.2* | 373.4 | 371.2 | 370.5 | 367.5 | 363.8 | 361.5 | 358.6 | 356.3 | 346.7 | 333.3 |
| 142.5° | *337.7* | 339.2 | 337.7 | 337.0 | 334.7 | 331.8 | 330.3 | 328.1 | 322.8 | 316.9 | 305.7 |
| 145° | *308.7* | 308.0 | 308.0 | 307.2 | 304.2 | 302.0 | 299.8 | 298.3 | 295.3 | 289.4 | 276.7 |
| 147.5° | *280.4* | 278.2 | 279.7 | 278.2 | 276.0 | 274.5 | 273.8 | 270.8 | 267.8 | 261.8 | 252.9 |
| 150° | *251.4* | 252.9 | 252.2 | 251.4 | 249.2 | 249.2 | 247.0 | 244.7 | 242.5 | 235.8 | 229.9 |
| 152.5° | *227.6* | 227.6 | 228.4 | 226.9 | 226.1 | 223.9 | 222.4 | 221.7 | 218.7 | 214.2 | 207.5 |
| 155° | *207.5* | 206.8 | 206.8 | 206.8 | 205.3 | 203.1 | 202.3 | 200.8 | 199.4 | 194.2 | 188.2 |
| 157.5° | *188.2* | 188.2 | 188.2 | 187.5 | 187.5 | 185.2 | 184.5 | 182.3 | 180.0 | 177.0 | 171.8 |
| 160° | *171.8* | 171.8 | 171.1 | 171.1 | 170.3 | 169.6 | 168.1 | 165.9 | 164.4 | 162.2 | 157.7 |
| 162.5° | *158.4* | 157.7 | 157.7 | 157.0 | 156.2 | 154.7 | 154.0 | 153.2 | 151.0 | 148.8 | 145.1 |
| 165° | *145.8* | 145.8 | 145.8 | 145.1 | 144.3 | 143.6 | 142.8 | 141.3 | 139.9 | 138.4 | 136.1 |
| 167.5° | *136.1* | 136.1 | 136.1 | 135.4 | 135.4 | 134.6 | 133.9 | 132.4 | 130.9 | 129.4 | 127.9 |
| 170° | *128.7* | 128.7 | 128.7 | 127.9 | 127.2 | 126.5 | 125.7 | 125.0 | 124.2 | 122.7 | 122.0 |
| 172.5° | *122.7* | 122.7 | 122.7 | 122.7 | 121.3 | 120.5 | 119.8 | 119.8 | 119.0 | 118.3 | 117.5 |
| 175° | *117.5* | 117.5 | 117.5 | 117.5 | 116.8 | 116.0 | 115.3 | 115.3 | 114.6 | 113.8 | 113.1 |
| 177.5° | *114.6* | 114.6 | 114.6 | 113.8 | 113.8 | 113.1 | 112.3 | 112.3 | 111.6 | 111.6 | 110.8 |
| 180° | *110.8* | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 |
| 2.5° | 64.0 | 61.0 | 55.8 | 51.3 | 47.6 | 43.9 | 41.7 | 39.4 | 39.4 | 40.2 | 38.7 |
| 5° | 77.4 | 72.2 | 62.5 | 52.1 | 43.1 | 35.7 | 29.8 | 24.5 | 20.1 | 17.9 | 17.9 |
| 7.5° | 102.7 | 96.7 | 83.3 | 69.9 | 57.3 | 45.4 | 35.7 | 27.5 | 20.8 | 17.1 | 16.4 |
| 10° | 131.7 | 125.0 | 106.4 | 90.0 | 74.4 | 59.5 | 46.9 | 35.7 | 28.3 | 24.5 | 23.8 |
| 12.5° | 165.1 | 156.2 | 133.9 | 113.1 | 93.0 | 74.4 | 58.8 | 46.1 | 38.7 | 35.0 | 34.2 |
| 15° | 203.8 | 189.7 | 164.4 | 138.4 | 112.3 | 89.3 | 70.7 | 56.5 | 48.4 | 43.1 | 43.1 |
| 17.5° | 238.8 | 223.9 | 193.4 | 159.9 | 130.2 | 103.4 | 81.1 | 64.0 | 52.8 | 47.6 | 46.9 |
| 20° | 279.0 | 258.9 | 222.4 | 183.7 | 147.3 | 114.6 | 87.8 | 68.4 | 55.0 | 48.4 | 48.4 |
| 22.5° | 319.9 | 299.0 | 254.4 | 207.5 | 163.7 | 125.0 | 94.5 | 71.4 | 56.5 | 49.1 | 48.4 |
| 25° | 368.2 | 340.0 | 286.4 | 233.6 | 182.3 | 136.1 | 100.4 | 74.4 | 58.0 | 50.6 | 49.1 |
| 27.5° | 415.1 | 386.1 | 323.6 | 259.6 | 199.4 | 147.3 | 105.6 | 77.4 | 59.5 | 51.3 | 50.6 |
| 30° | 464.2 | 428.5 | 357.8 | 286.4 | 217.2 | 157.0 | 110.8 | 79.6 | 60.3 | 52.1 | 50.6 |
| 32.5° | 513.3 | 473.9 | 395.7 | 312.4 | 234.3 | 165.9 | 115.3 | 81.1 | 61.7 | 52.8 | 51.3 |
| 35° | 563.1 | 520.7 | 432.2 | 338.5 | 249.9 | 174.1 | 118.3 | 82.6 | 62.5 | 52.8 | 52.1 |
| 37.5° | 606.3 | 561.6 | 466.4 | 362.3 | 263.3 | 180.8 | 121.3 | 84.1 | 62.5 | 53.6 | 52.8 |
| 40° | 649.4 | 601.1 | 496.2 | 382.4 | 275.2 | 186.0 | 123.5 | 84.8 | 63.2 | 54.3 | 53.6 |
| 42.5° | 688.1 | 634.5 | 522.2 | 400.2 | 284.9 | 189.7 | 124.2 | 84.8 | 64.0 | 55.0 | 54.3 |
| 45° | 723.1 | 668.8 | 546.8 | 417.3 | 293.1 | 191.9 | 125.0 | 85.5 | 64.7 | 55.8 | 55.0 |
| 47.5° | 755.0 | 697.0 | 569.1 | 431.5 | 299.8 | 194.2 | 125.0 | 85.5 | 65.5 | 57.3 | 55.8 |
| 50° | 781.8 | 720.8 | 587.7 | 443.4 | 304.2 | 194.9 | 124.2 | 85.5 | 66.2 | 58.0 | 57.3 |
| 52.5° | 802.7 | 740.9 | 603.3 | 451.5 | 307.2 | 194.2 | 123.5 | 85.5 | 66.9 | 58.8 | 58.0 |
| 55° | 820.5 | 757.3 | 614.4 | 458.2 | 308.0 | 192.7 | 122.7 | 85.5 | 67.7 | 60.3 | 59.5 |
| 57.5° | 833.9 | 769.2 | 624.1 | 463.4 | 308.7 | 191.2 | 121.3 | 85.5 | 68.4 | 61.0 | 60.3 |
| 60° | 844.3 | 779.6 | 631.6 | 466.4 | 308.0 | 188.9 | 120.5 | 85.5 | 69.2 | 62.5 | 61.7 |
| 62.5° | 851.7 | 785.5 | 636.0 | 467.2 | 305.7 | 186.7 | 119.0 | 85.5 | 69.9 | 64.0 | 63.2 |
| 65° | 856.2 | 790.0 | 639.7 | 467.9 | 303.5 | 184.5 | 118.3 | 86.3 | 71.4 | 66.2 | 65.5 |
| 67° | *857.7* | *792.2* | *640.5* | *467.9* | *302.0* | *183.0* | *118.3* | *87.0* | *72.9* | *66.9* | *66.2* |
| 67.5° | 858.4 | 792.2 | 640.5 | 467.2 | 301.3 | 183.0 | 118.3 | 87.0 | 72.9 | 67.7 | 66.9 |
| 70° | 857.7 | 792.2 | 640.5 | 465.7 | 299.0 | 181.5 | 117.5 | 88.5 | 75.1 | 69.9 | 69.2 |
| 72.5° | 856.2 | 790.8 | 639.0 | 463.4 | 296.1 | 180.0 | 118.3 | 90.0 | 77.4 | 72.2 | 71.4 |
| 75° | 852.5 | 787.8 | 636.0 | 460.5 | 293.8 | 178.5 | 119.0 | 91.5 | 79.6 | 75.1 | 74.4 |
| 77.5° | 848.8 | 784.1 | 633.8 | 457.5 | 291.6 | 178.5 | 119.8 | 93.7 | 82.6 | 78.1 | 77.4 |
| 80° | 842.1 | 778.8 | 629.3 | 454.5 | 289.4 | 177.8 | 121.3 | 96.7 | 85.5 | 81.1 | 80.3 |
| 82.5° | 833.9 | 771.4 | 623.4 | 450.1 | 287.1 | 177.8 | 123.5 | 98.9 | 88.5 | 84.1 | 83.3 |
| 85° | 822.7 | 761.7 | 615.9 | 444.1 | 284.9 | 178.5 | 125.0 | 101.9 | 91.5 | 87.8 | 87.0 |
| 87.5° | 810.1 | 749.8 | 607.0 | 438.9 | 282.7 | 178.5 | 127.2 | 104.9 | 94.5 | 90.8 | 90.8 |
| 90° | 795.2 | 737.2 | 596.6 | 432.9 | 280.4 | 180.0 | 130.2 | 107.9 | 98.2 | 94.5 | 94.5 |
| 92.5° | 781.8 | 723.8 | 588.4 | 427.0 | 279.0 | 181.5 | 133.2 | 111.6 | 101.9 | 98.2 | 98.2 |
| 95° | 764.0 | 709.7 | 576.5 | 421.8 | 278.2 | 183.0 | 136.1 | 115.3 | 106.4 | 102.7 | 101.9 |
| 97.5° | 746.9 | 694.0 | 566.1 | 415.8 | 277.5 | 186.0 | 139.9 | 119.8 | 110.1 | 106.4 | 106.4 |
| 100° | 728.3 | 678.4 | 554.2 | 410.6 | 277.5 | 189.7 | 145.1 | 124.2 | 115.3 | 111.6 | 110.8 |
| 102.5° | 710.4 | 661.3 | 542.3 | 405.4 | 279.0 | 193.4 | 150.3 | 129.4 | 120.5 | 116.8 | 116.0 |
| 105° | 690.3 | 643.5 | 531.9 | 401.0 | 280.4 | 198.6 | 156.2 | 136.1 | 126.5 | 122.7 | 122.0 |
| 107.5° | 670.2 | 627.1 | 520.0 | 397.2 | 283.4 | 205.3 | 163.7 | 142.8 | 133.2 | 128.7 | 127.9 |

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

Scaled Data Report

REPORT NUMBER: P1045853
CATALOG NUMBER: FFX-CLB-60-740-U-VM8-T5-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 648.7 | 609.2 | 509.6 | 394.3 | 287.9 | 212.8 | 171.8 | 151.8 | 140.6 | 136.1 | 135.4 |
| 112.5° | 628.6 | 591.4 | 498.4 | 392.0 | 292.3 | 221.7 | 181.5 | 159.9 | 149.5 | 143.6 | 142.8 |
| 115° | 606.3 | 572.8 | 488.0 | 389.8 | 297.6 | 230.6 | 191.9 | 168.9 | 157.7 | 151.8 | 151.8 |
| 117.5° | 584.7 | 553.5 | 476.1 | 387.6 | 302.8 | 240.3 | 201.6 | 178.5 | 165.9 | 159.9 | 159.2 |
| 120° | 559.4 | 532.6 | 463.4 | 383.1 | 305.7 | 247.7 | 209.8 | 186.7 | 172.6 | 166.6 | 165.9 |
| 122.5° | 534.1 | 509.6 | 447.1 | 376.4 | 306.5 | 252.2 | 215.7 | 193.4 | 178.5 | 171.8 | 171.1 |
| 125° | 505.1 | 484.3 | 430.0 | 366.0 | 304.2 | 254.4 | 219.4 | 195.6 | 180.8 | 173.3 | 172.6 |
| 127.5° | 476.8 | 456.7 | 409.9 | 353.3 | 298.3 | 252.2 | 218.7 | 195.6 | 180.8 | 172.6 | 171.8 |
| 130° | 446.3 | 428.5 | 386.1 | 337.7 | 288.6 | 247.0 | 215.7 | 192.7 | 177.8 | 169.6 | 168.9 |
| 132.5° | 415.1 | 400.2 | 363.0 | 320.6 | 276.7 | 238.8 | 209.0 | 187.5 | 172.6 | 165.1 | 164.4 |
| 135° | 384.6 | 371.2 | 339.2 | 301.3 | 264.1 | 229.1 | 201.6 | 180.8 | 165.9 | 159.2 | 159.2 |
| 137.5° | 355.6 | 342.9 | 314.7 | 282.7 | 249.2 | 218.0 | 192.7 | 172.6 | 159.9 | 153.2 | 151.8 |
| 140° | 325.8 | 315.4 | 290.9 | 262.6 | 233.6 | 206.1 | 183.0 | 164.4 | 152.5 | 146.5 | 145.8 |
| 142.5° | 298.3 | 289.4 | 268.5 | 245.5 | 218.7 | 194.9 | 173.3 | 157.7 | 146.5 | 140.6 | 139.9 |
| 145° | 272.3 | 264.1 | 246.2 | 225.4 | 203.8 | 183.0 | 163.7 | 149.5 | 139.9 | 135.4 | 134.6 |
| 147.5° | 246.2 | 241.0 | 226.1 | 209.0 | 188.9 | 170.3 | 154.7 | 142.8 | 133.9 | 130.2 | 129.4 |
| 150° | 224.7 | 218.0 | 206.8 | 191.2 | 175.6 | 159.9 | 146.5 | 136.1 | 129.4 | 125.7 | 125.7 |
| 152.5° | 203.1 | 199.4 | 188.2 | 176.3 | 162.9 | 150.3 | 138.4 | 130.2 | 125.0 | 122.0 | 122.0 |
| 155° | 186.7 | 181.5 | 171.8 | 162.2 | 151.0 | 140.6 | 132.4 | 125.7 | 121.3 | 119.0 | 118.3 |
| 157.5° | 169.6 | 166.6 | 159.2 | 150.3 | 142.1 | 133.9 | 127.2 | 122.0 | 118.3 | 116.8 | 116.0 |
| 160° | 155.5 | 153.2 | 147.3 | 140.6 | 133.9 | 127.9 | 122.7 | 119.0 | 116.0 | 114.6 | 114.6 |
| 162.5° | 143.6 | 142.1 | 136.9 | 132.4 | 127.2 | 122.7 | 119.0 | 116.0 | 114.6 | 113.8 | 113.8 |
| 165° | 134.6 | 133.2 | 129.4 | 125.7 | 122.7 | 119.0 | 116.8 | 114.6 | 113.1 | 113.1 | 113.1 |
| 167.5° | 127.2 | 125.7 | 123.5 | 121.3 | 119.0 | 116.0 | 114.6 | 113.1 | 113.1 | 112.3 | 112.3 |
| 170° | 121.3 | 120.5 | 118.3 | 116.8 | 115.3 | 113.8 | 113.1 | 112.3 | 111.6 | 111.6 | 111.6 |
| 172.5° | 116.8 | 116.0 | 114.6 | 113.8 | 112.3 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 | 111.6 |
| 175° | 113.1 | 112.3 | 112.3 | 111.6 | 110.8 | 110.8 | 110.1 | 110.8 | 110.8 | 110.8 | 110.8 |
| 177.5° | 110.8 | 110.8 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.8 | 110.8 | 111.6 | 111.6 |
| 180° | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 |

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

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-1

Test Date: 03/20/2025

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

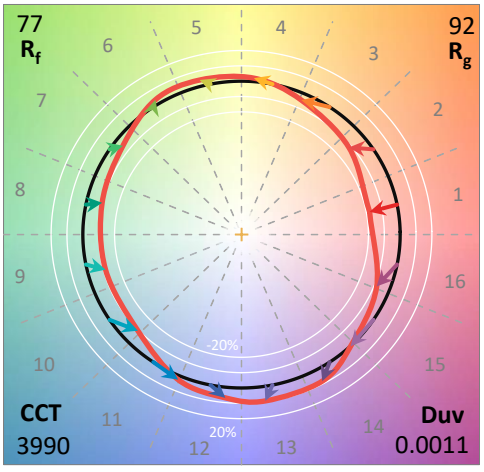
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-100-740-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

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

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




## Test Conditions

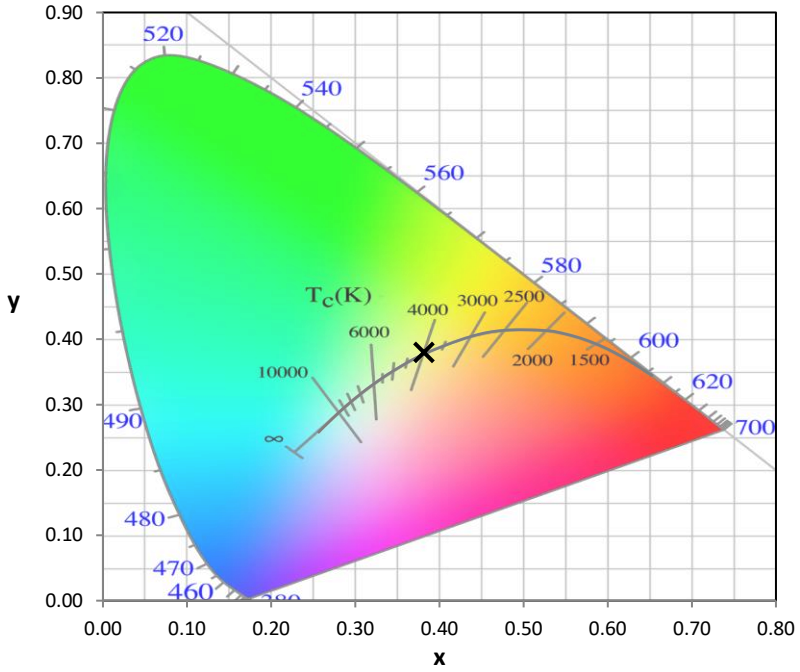
| | |
|---|---|
| Stabilization Time: | 70M |
| Operation Time: | 2H 10M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-1

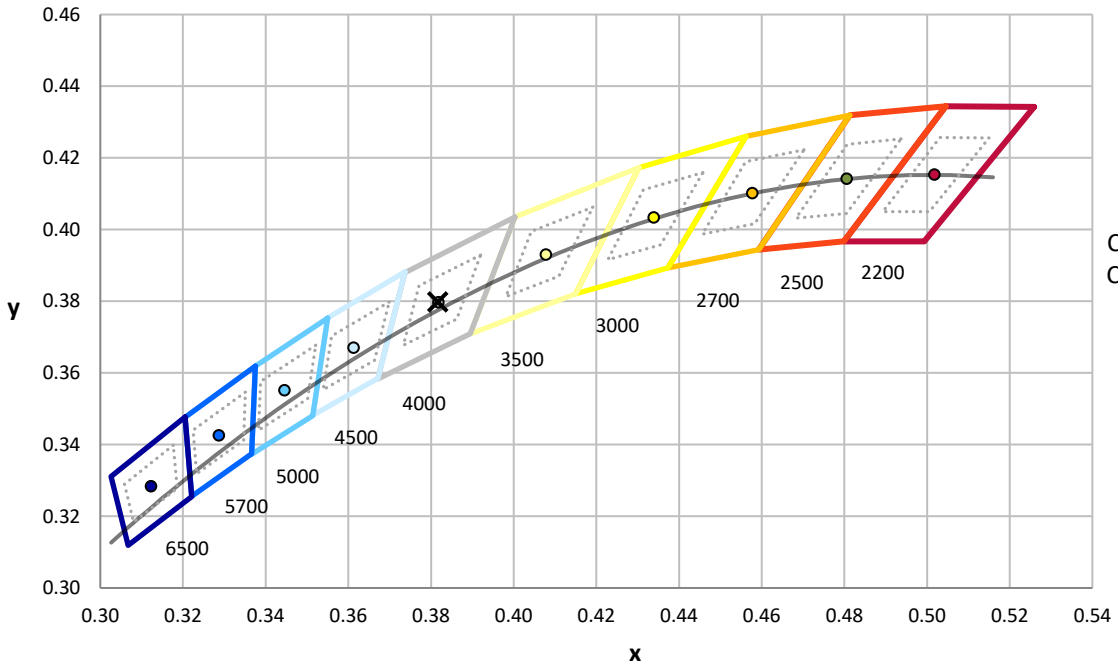
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

REPORT NUMBER: SP1-2501-332-1

## CIE 1931 Chromaticity Diagram




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

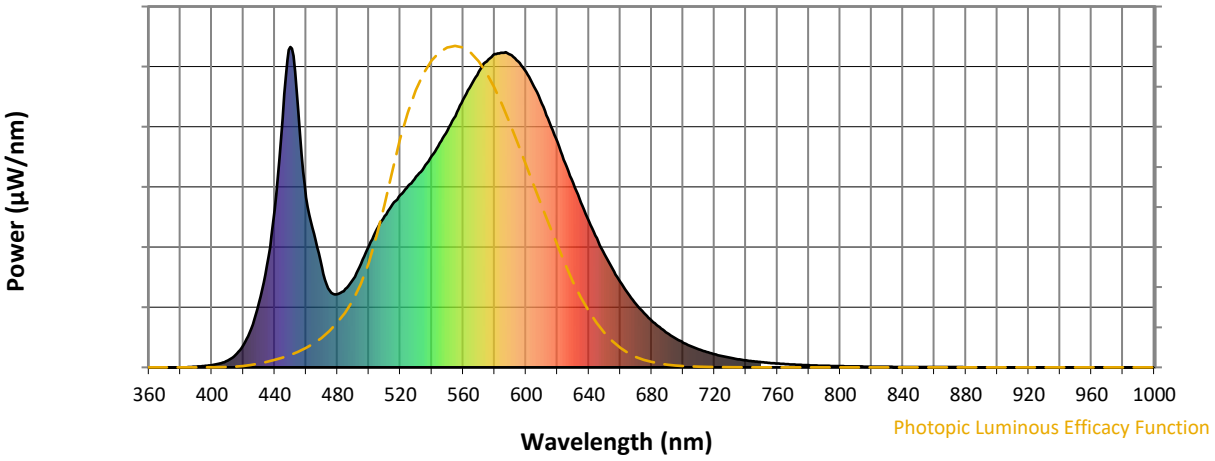



CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

## Photopic Flux vs. Wavelength

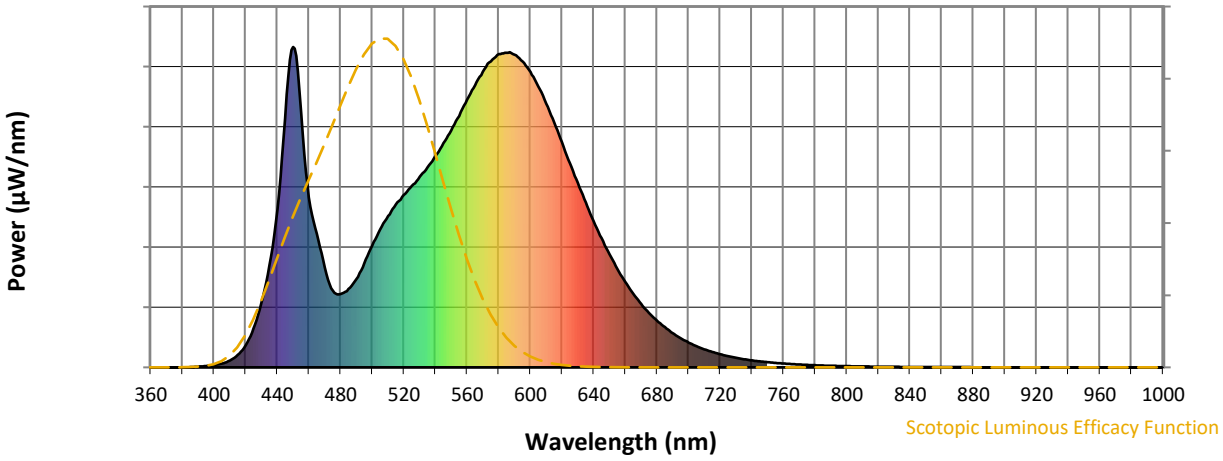



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-1

## Scotopic Flux vs. Wavelength

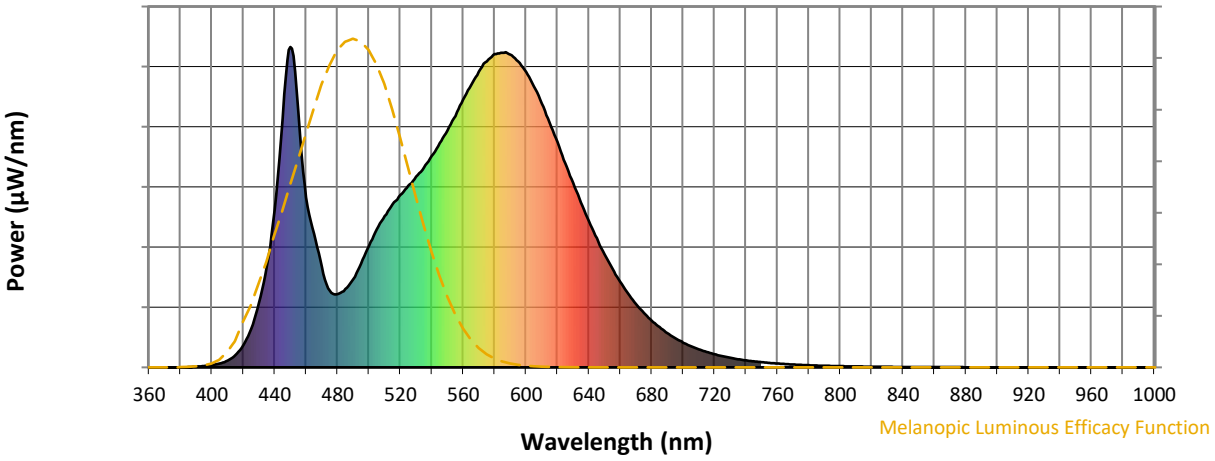



**Scotopic Lumens: NR** **S/P: 1.59**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-1

## Melanopic Flux vs. Wavelength




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

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 275 | NR | 620 | 703 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 324 | NR | 625 | 637 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 380 | NR | 630 | 576 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 431 | NR | 635 | 514 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 472 | NR | 640 | 456 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 508 | NR | 645 | 403 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 538 | NR | 650 | 353 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 567 | NR | 655 | 307 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 595 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 12 | NR | 535 | 624 | NR | 665 | 230 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 21 | NR | 540 | 660 | NR | 670 | 198 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 39 | NR | 545 | 700 | NR | 675 | 170 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 739 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 121 | NR | 555 | 784 | NR | 685 | 125 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 202 | NR | 560 | 836 | NR | 690 | 107 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 319 | NR | 565 | 881 | NR | 695 | 91 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 492 | NR | 570 | 923 | NR | 700 | 77 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 777 | NR | 575 | 955 | NR | 705 | 66 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 1000 | NR | 580 | 978 | NR | 710 | 56 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 797 | NR | 585 | 982 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 530 | NR | 590 | 976 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 418 | NR | 595 | 955 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 311 | NR | 600 | 922 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 239 | NR | 605 | 877 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 229 | NR | 610 | 823 | NR | 740 | 22 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 245 | NR | 615 | 764 | NR | 745 | 19 | NR | 875 | 1 | NR | | | |

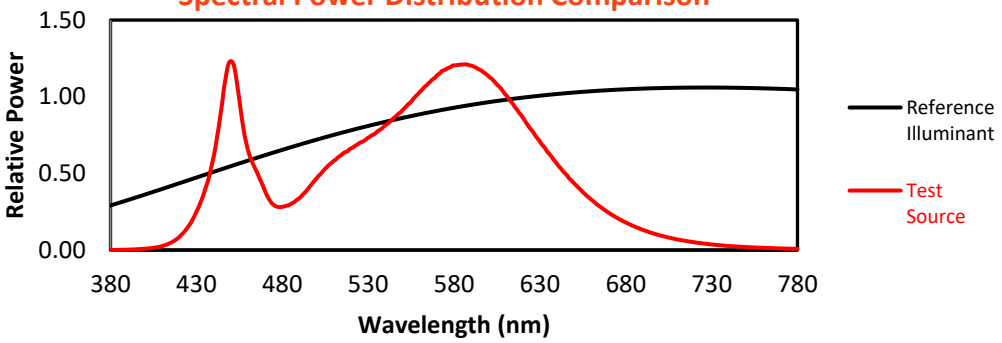
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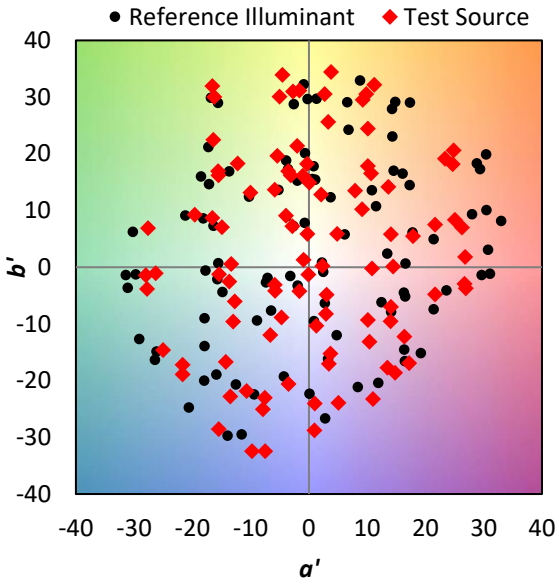
## Summary

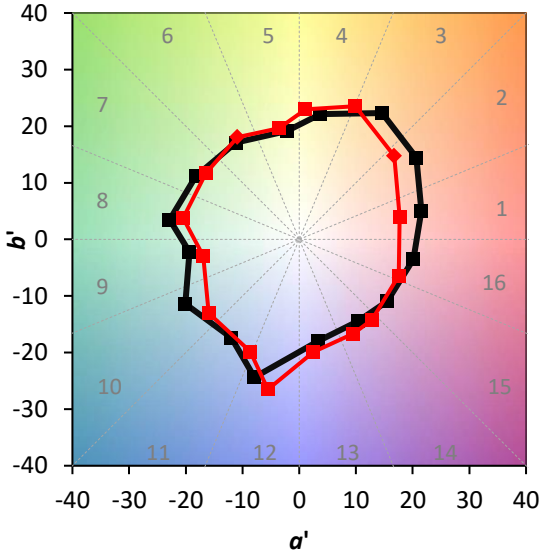
$R_f$ = 77.5
$R_g$ = 91.9
CIE $R_a$ = 73.9
$R_9$ = -36.4

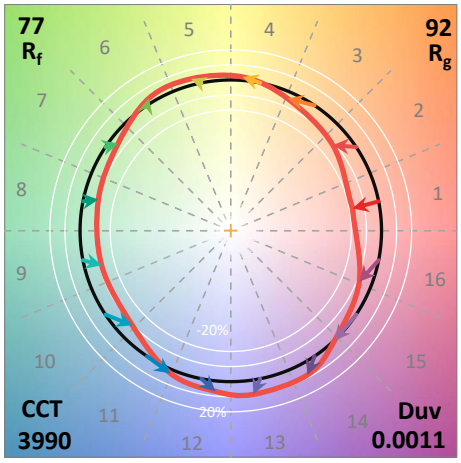
## Spectral Power Distribution Comparison

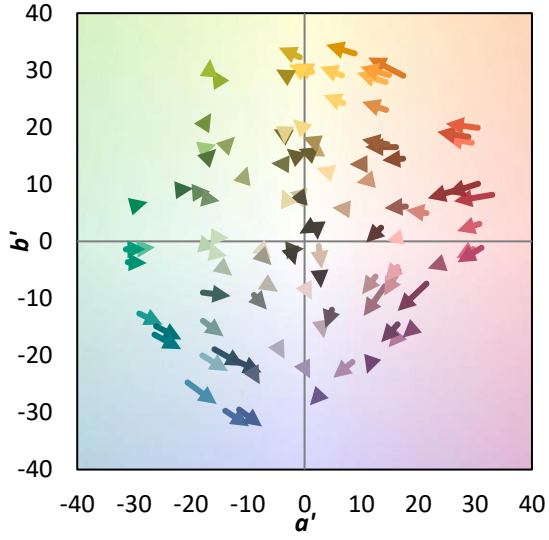



## Color Vector Graphics



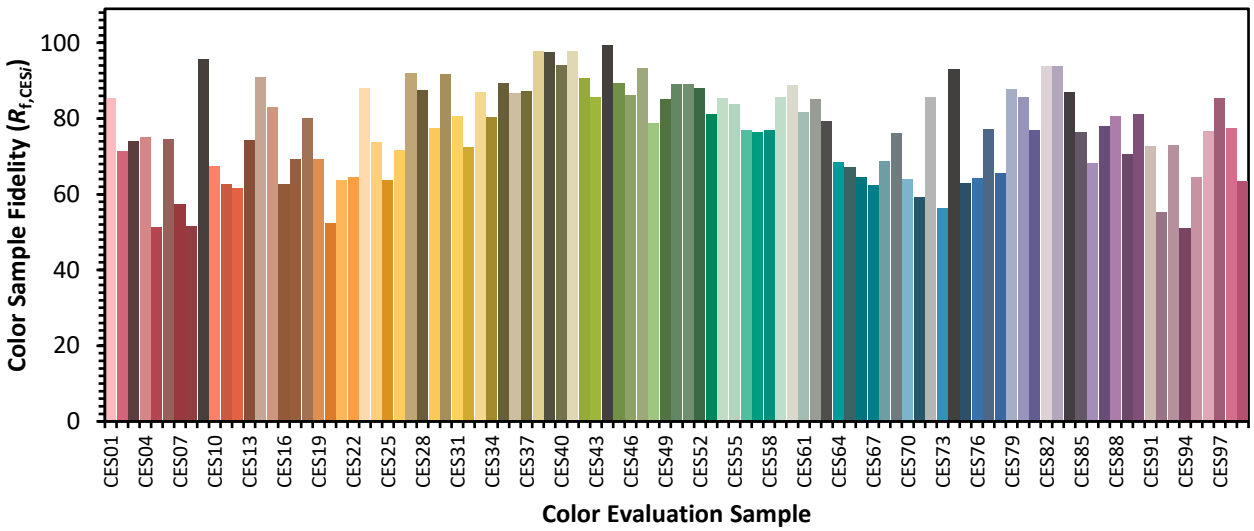



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**Individual Sample Fidelity Index ($R_{f,i}$)**

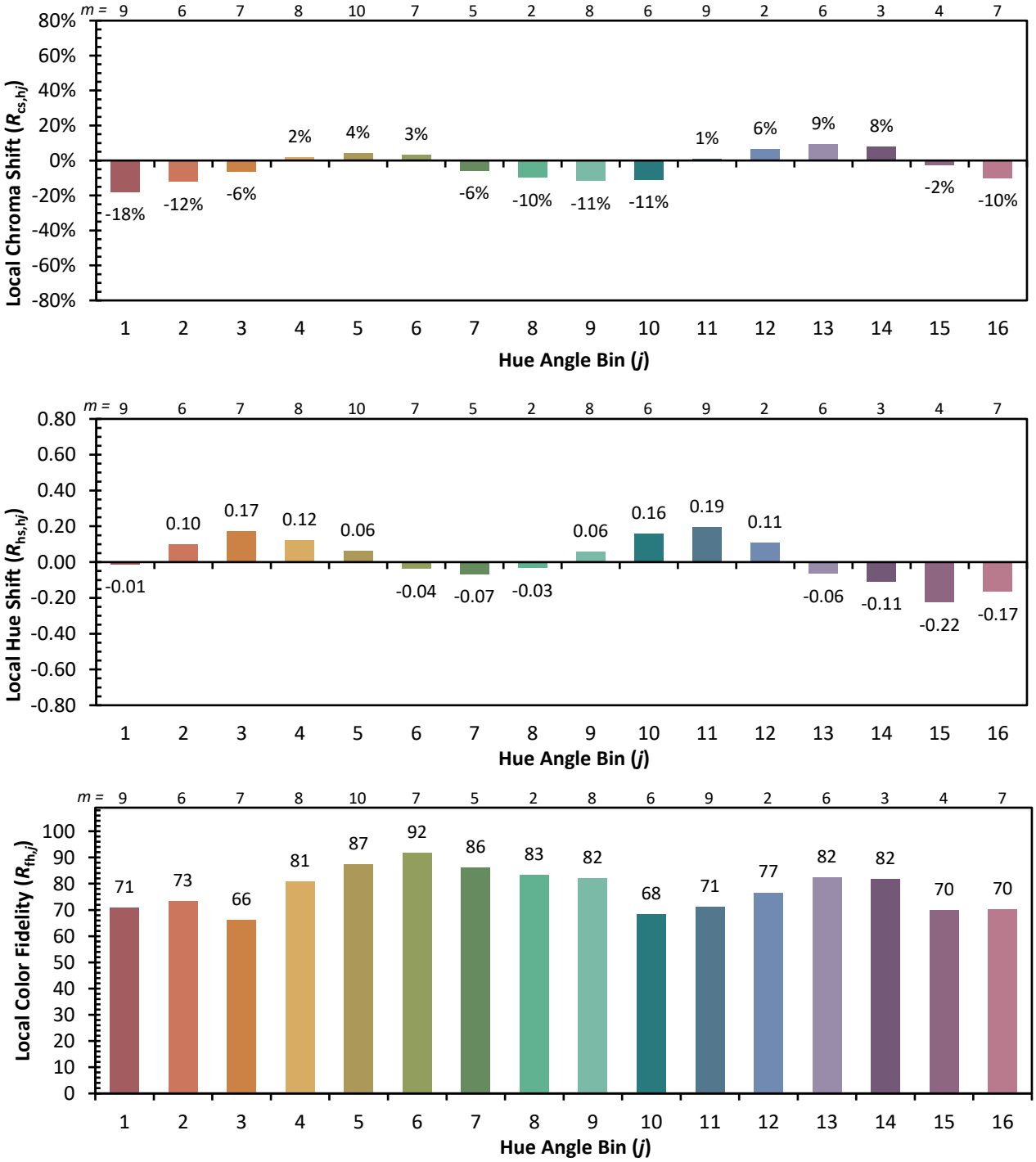
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 89 | CES76 = 64 |
| CES02 = 61 | CES27 = 92 | CES52 = 88 | CES77 = 77 |
| CES03 = 30 | CES28 = 88 | CES53 = 81 | CES78 = 65 |
| CES04 = 70 | CES29 = 78 | CES54 = 85 | CES79 = 88 |
| CES05 = 47 | CES30 = 92 | CES55 = 84 | CES80 = 86 |
| CES06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



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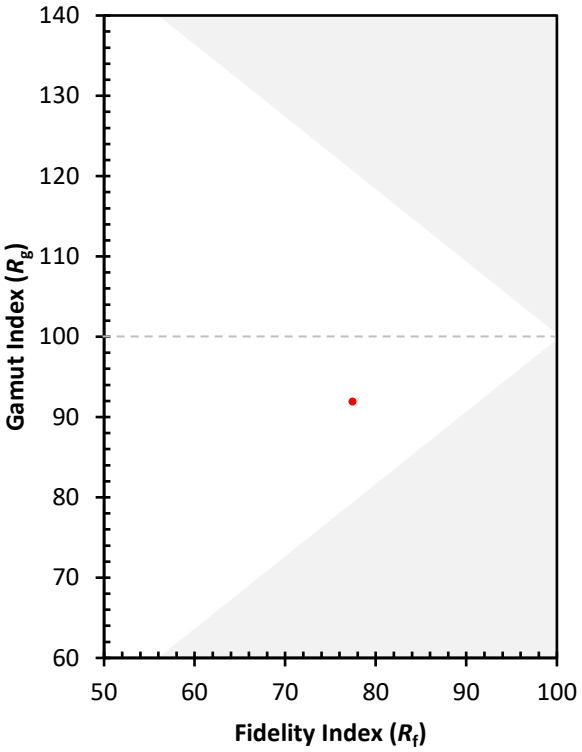
## Color Rendition by Hue-Angle Bin

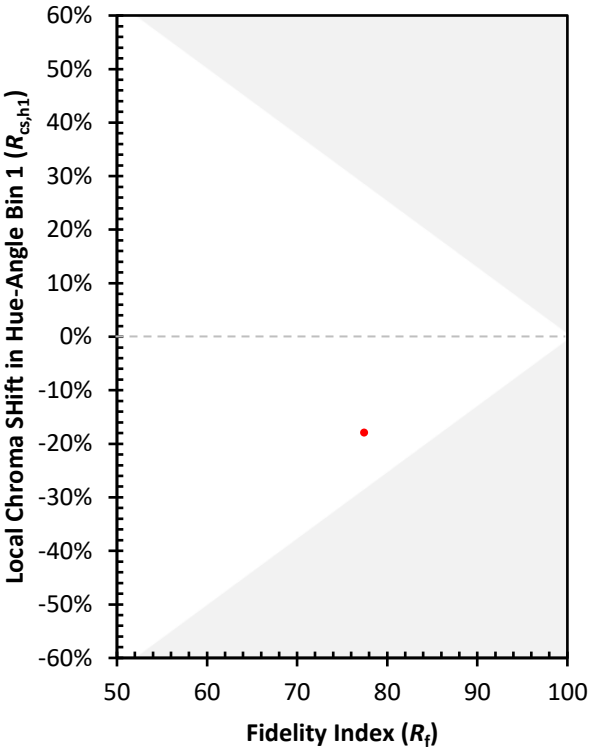


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## Measure Comparisons




(END OF REPORT)