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: P1046391

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

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1046391 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-80-740-U-FR-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION |
| Light Source: | (4) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 13183.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 161.2 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U5 - G4 |

| | |
|---|---|
| Input Watts (W): | 81.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 6.01% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

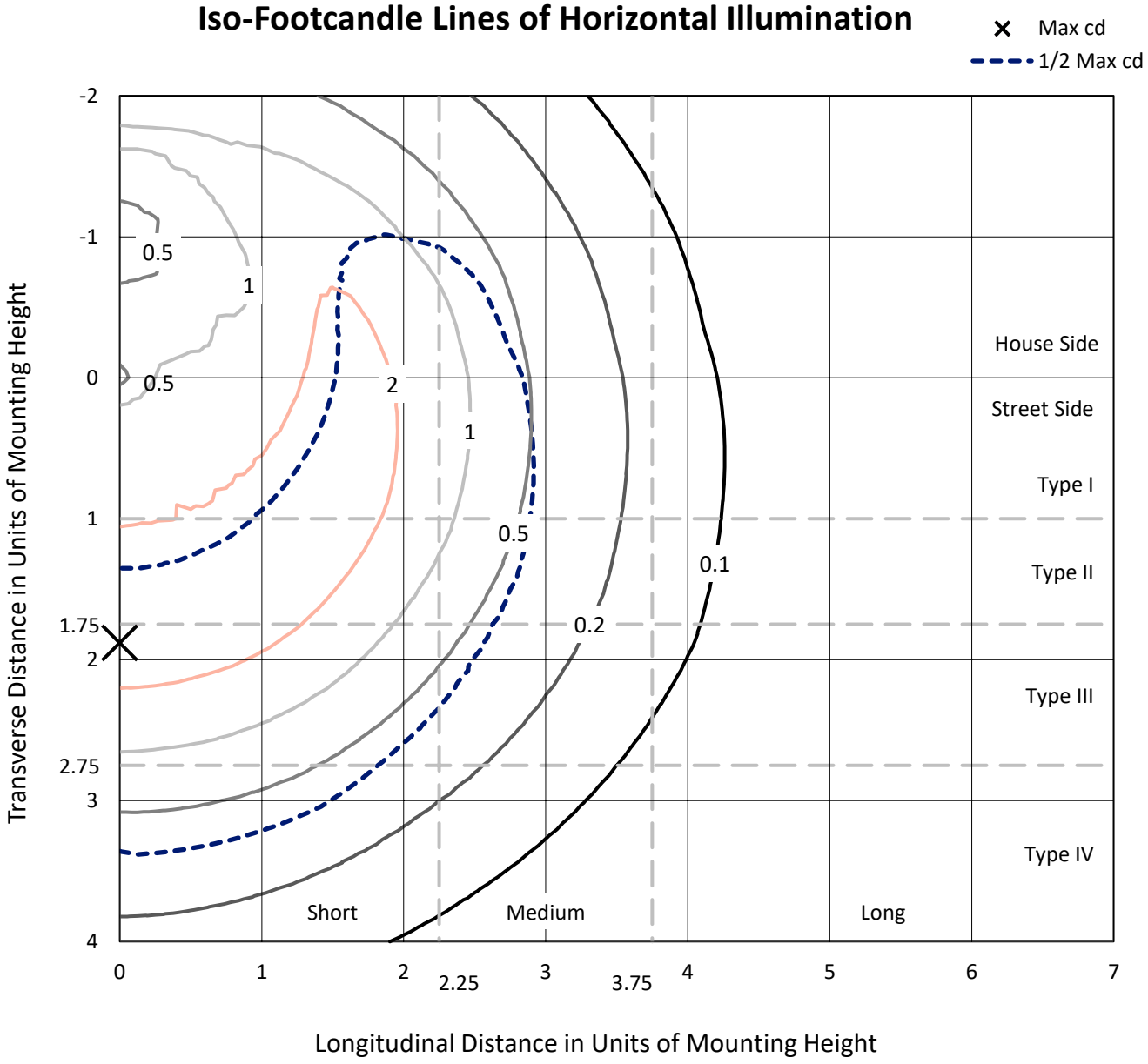


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REPORT NUMBER: P1046391
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## Iso-Footcandle Lines of Horizontal Illumination



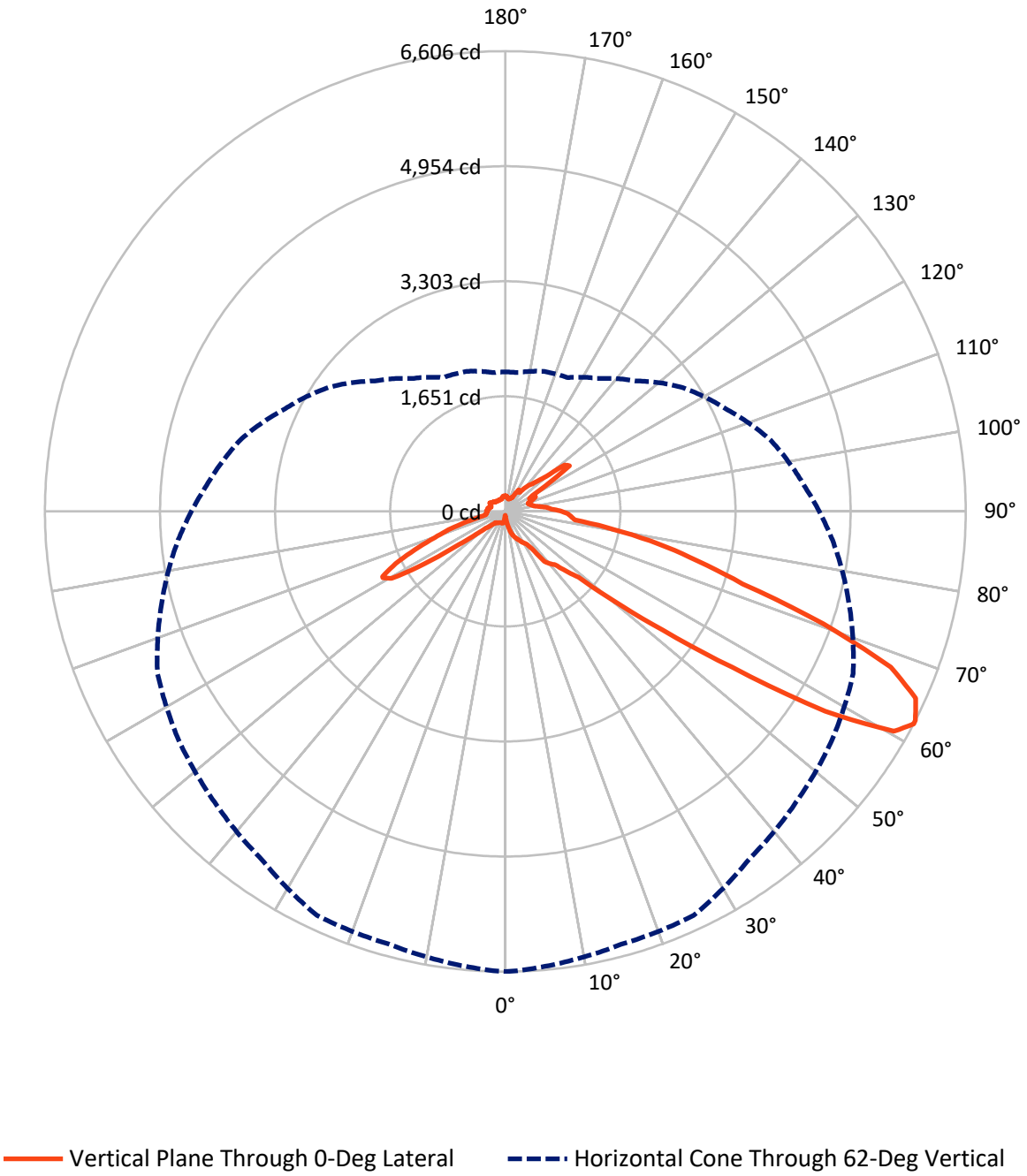

Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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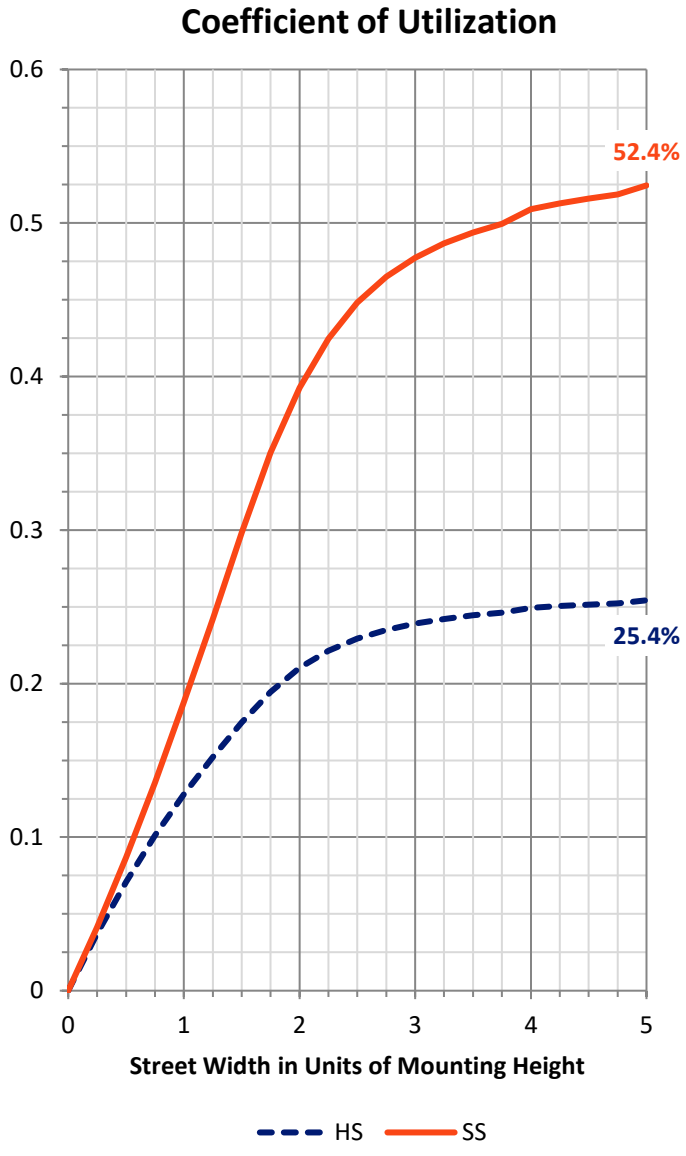
REPORT NUMBER: P1046391
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3468.7 | 991.1 | 4459.7 |
| | % Fixture | 26.3 | 7.5 | 33.8 |
| **Street Side** | Lumens | 7201.2 | 1522.3 | 8723.4 |
| | % Fixture | 54.6 | 11.5 | 66.2 |
| **Total** | Lumens | 10669.8 | 2513.4 | 13183.2 |
| | % Fixture | 80.9 | 19.1 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 13.3 | 0.1 |
| 10°-20° | 73.2 | 0.6 |
| 20°-30° | 158.3 | 1.2 |
| 30°-40° | 317.0 | 2.4 |
| 40°-50° | 694.3 | 5.3 |
| 50°-60° | 2431.1 | 18.4 |
| 60°-70° | 4068.7 | 30.9 |
| 70°-80° | 2111.8 | 16.0 |
| 80°-90° | 802.0 | 6.1 |
| 90°-100° | 511.5 | 3.9 |
| 100°-110° | 339.0 | 2.6 |
| 110°-120° | 354.1 | 2.7 |
| 120°-130° | 591.7 | 4.5 |
| 130°-140° | 356.1 | 2.7 |
| 140°-150° | 188.3 | 1.4 |
| 150°-160° | 99.0 | 0.8 |
| 160°-170° | 53.7 | 0.4 |
| 170°-180° | 20.1 | 0.2 |
| 0°-90° | 10669.8 | 80.9 |
| 0°-180° | 13183.2 | 100.0 |



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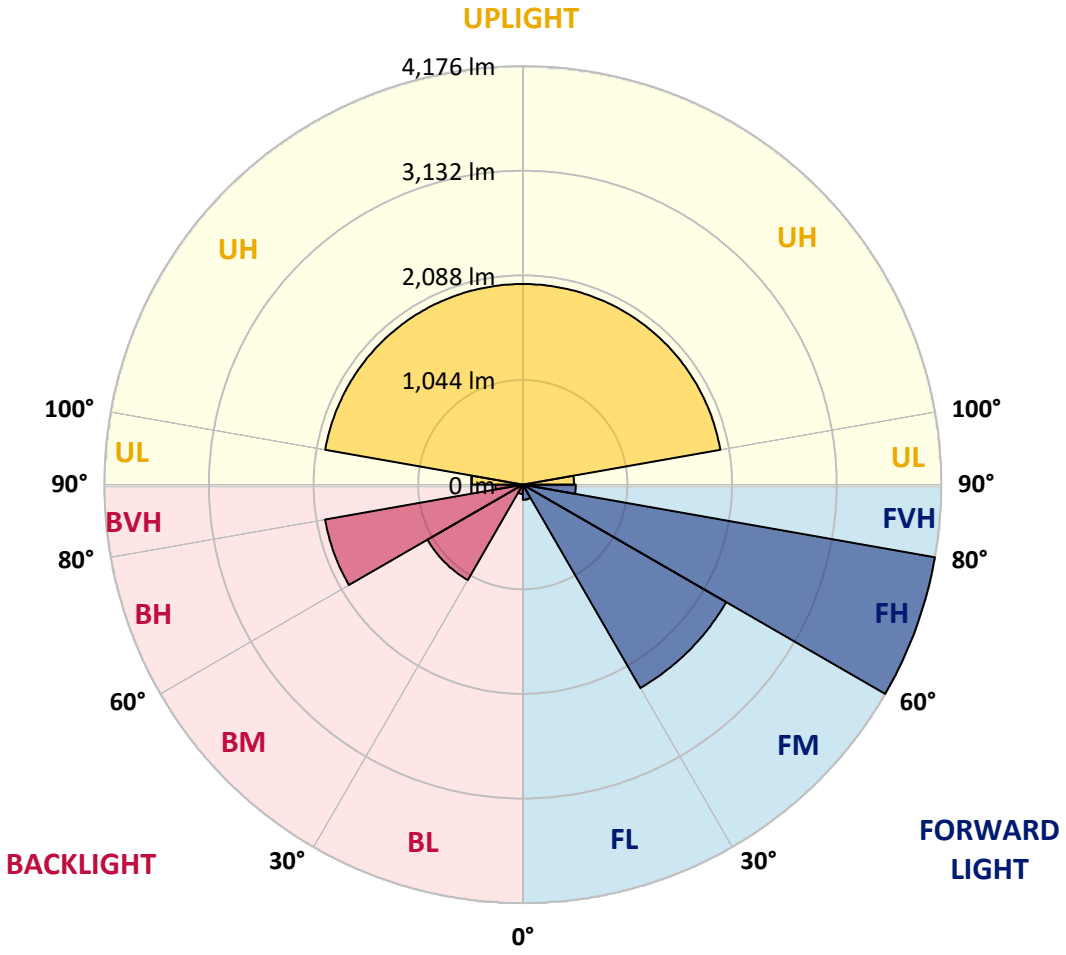
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 151.9 | 1.2 | | | |
| FM | (30°-60°) | 2343.8 | 17.8 | | | |
| FH | (60°-80°) | 4176.5 | 31.7 | | | G2/5000 |
| FVH | (80°-90°) | 529.0 | 4.0 | | | G4/750 |
| BL | (0°-30°) | 92.9 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 1098.7 | 8.3 | B2/2500 | | |
| BH | (60°-80°) | 2004.0 | 15.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 273.0 | 2.1 | | | G3/500 |
| UL | (90°-100°) | 511.5 | 3.9 | | U4/1000 | |
| UH | (100°-180°) | 2001.9 | 15.2 | | U5 | |

**BUG Rating: B3-U5-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| 2.5° | 83.0 | 81.3 | 81.3 | 84.7 | 88.9 | 88.9 | 89.7 | 87.2 | 87.2 | 86.4 | 87.2 |
| 5° | 120.8 | 117.4 | 119.1 | 119.9 | 121.6 | 123.3 | 125.0 | 125.0 | 121.6 | 119.1 | 112.4 |
| 7.5° | 168.6 | 167.7 | 169.4 | 168.6 | 166.9 | 171.1 | 173.6 | 179.5 | 181.1 | 170.2 | 156.8 |
| 10° | 217.2 | 214.7 | 213.9 | 214.7 | 215.5 | 213.0 | 218.0 | 222.2 | 216.4 | 203.8 | 192.0 |
| 12.5° | 270.0 | 270.0 | 270.0 | 269.2 | 269.2 | 268.4 | 266.7 | 265.8 | 260.0 | 245.7 | 227.3 |
| 15° | 328.7 | 329.6 | 331.3 | 330.4 | 326.2 | 319.5 | 314.5 | 310.3 | 306.9 | 296.9 | 273.4 |
| 17.5° | 364.8 | 363.1 | 364.8 | 364.0 | 362.3 | 358.1 | 348.9 | 340.5 | 329.6 | 315.3 | 297.7 |
| 20° | 398.4 | 397.5 | 396.7 | 396.7 | 395.0 | 390.0 | 384.1 | 370.7 | 356.4 | 341.3 | 321.2 |
| 22.5° | 424.3 | 422.7 | 424.3 | 423.5 | 422.7 | 421.0 | 410.9 | 399.2 | 383.3 | 366.5 | 345.5 |
| 25° | 457.9 | 457.1 | 457.9 | 455.4 | 455.4 | 452.9 | 447.0 | 431.9 | 414.3 | 395.8 | 369.8 |
| 27.5° | 494.8 | 492.3 | 494.8 | 494.0 | 490.6 | 483.9 | 478.9 | 462.1 | 440.3 | 422.7 | 399.2 |
| 30° | 525.8 | 525.8 | 527.5 | 522.5 | 525.8 | 520.0 | 508.2 | 489.8 | 471.3 | 448.7 | 424.3 |
| 32.5° | 558.5 | 558.5 | 556.9 | 556.0 | 560.2 | 552.7 | 539.2 | 517.4 | 502.3 | 478.9 | 457.9 |
| 35° | 649.9 | 643.2 | 654.1 | 653.3 | 674.3 | 659.2 | 634.0 | 604.7 | 581.2 | 551.0 | 523.3 |
| 37.5° | 912.4 | 909.1 | 904.0 | 872.2 | 835.3 | 841.1 | 845.3 | 812.6 | 783.3 | 728.8 | 664.2 |
| 40° | 987.1 | 986.2 | 985.4 | 966.9 | 977.0 | 950.2 | 936.8 | 920.0 | 914.9 | 843.7 | 757.3 |
| 42.5° | 1048.3 | 1038.2 | 1048.3 | 1081.8 | 1134.7 | 1116.2 | 1048.3 | 961.1 | 945.1 | 877.2 | 842.0 |
| 45° | 1214.3 | 1207.6 | 1224.4 | 1234.5 | 1217.7 | 1187.5 | 1206.8 | 1143.1 | 1099.4 | 1003.0 | 938.4 |
| 47.5° | 1413.1 | 1406.4 | 1422.3 | 1430.7 | 1465.1 | 1433.2 | 1418.1 | 1363.6 | 1290.7 | 1199.2 | 1115.4 |
| 50° | 2006.0 | 1930.5 | 1991.8 | 1970.8 | 1979.2 | 1907.9 | 1936.4 | 1858.4 | 1793.0 | 1642.9 | 1491.1 |
| 52.5° | 2832.1 | 2806.9 | 2765.0 | 2718.0 | 2754.1 | 2677.8 | 2701.2 | 2616.5 | 2498.3 | 2323.9 | 2099.9 |
| 55° | 3950.0 | 3865.3 | 3892.1 | 3988.5 | 3968.4 | 3831.7 | 3808.2 | 3601.9 | 3389.8 | 3128.9 | 2893.3 |
| 57.5° | 5412.5 | 5370.6 | 5322.0 | 5257.4 | 5194.5 | 5052.8 | 4983.2 | 4752.5 | 4423.0 | 4059.0 | 3731.1 |
| 60° | 6408.0 | 6374.5 | 6352.7 | 6155.6 | 6039.8 | 5754.7 | 5690.1 | 5530.0 | 5236.4 | 4840.6 | 4388.6 |
| 62° | 6605.9 | 6600.9 | 6556.4 | 6434.0 | 6399.6 | 6097.7 | 5901.5 | 5722.8 | 5507.3 | 5105.6 | 4712.3 |
| 62.5° | 6604.2 | 6594.2 | 6568.2 | 6465.9 | 6430.6 | 6148.0 | 5935.0 | 5745.5 | 5530.8 | 5136.6 | 4750.0 |
| 65° | 6470.1 | 6447.4 | 6435.7 | 6374.5 | 6358.5 | 6192.5 | 5909.9 | 5714.5 | 5534.1 | 5099.7 | 4777.7 |
| 67.5° | 5965.2 | 5992.0 | 5993.7 | 5932.5 | 5879.7 | 5780.7 | 5510.7 | 5341.3 | 5217.1 | 4764.3 | 4460.7 |
| 70° | 4842.3 | 4806.2 | 4769.3 | 4797.8 | 4774.3 | 4720.7 | 4506.0 | 4293.0 | 4137.8 | 3900.5 | 3612.8 |
| 72.5° | 3559.2 | 3616.2 | 3615.4 | 3623.7 | 3627.9 | 3492.9 | 3397.3 | 3274.9 | 3191.0 | 2985.5 | 2780.1 |
| 75° | 2853.0 | 2858.1 | 2842.1 | 2783.4 | 2720.5 | 2642.5 | 2659.3 | 2648.4 | 2608.2 | 2390.9 | 2187.2 |
| 77.5° | 2252.6 | 2197.2 | 2219.9 | 2127.6 | 2046.3 | 2045.4 | 2078.1 | 2110.0 | 2127.6 | 1953.2 | 1795.5 |
| 80° | 1585.9 | 1573.3 | 1553.1 | 1561.5 | 1494.4 | 1512.1 | 1528.0 | 1549.8 | 1515.4 | 1412.3 | 1339.3 |
| 82.5° | 1001.3 | 990.4 | 974.5 | 1051.6 | 1116.2 | 1102.0 | 1050.8 | 968.6 | 949.3 | 956.9 | 940.1 |
| 85° | 946.8 | 946.0 | 931.7 | 924.2 | 914.1 | 891.5 | 904.0 | 921.7 | 911.6 | 854.6 | 780.8 |
| 87.5° | 894.0 | 891.5 | 880.6 | 876.4 | 857.1 | 854.6 | 866.3 | 873.0 | 877.2 | 826.1 | 764.0 |
| 90° | 783.3 | 773.2 | 763.2 | 771.5 | 769.0 | 770.7 | 774.1 | 772.4 | 774.1 | 713.7 | 687.7 |
| 92.5° | 653.3 | 650.8 | 643.2 | 647.4 | 653.3 | 676.8 | 666.7 | 650.8 | 648.3 | 623.9 | 598.8 |
| 95° | 596.3 | 597.9 | 588.7 | 594.6 | 596.3 | 596.3 | 589.6 | 582.0 | 576.1 | 556.9 | 534.2 |
| 97.5° | 494.0 | 486.4 | 483.1 | 487.2 | 488.9 | 483.1 | 478.9 | 466.3 | 465.4 | 446.2 | 435.3 |
| 100° | 420.2 | 418.5 | 416.8 | 421.8 | 423.5 | 421.0 | 421.8 | 414.3 | 413.4 | 402.5 | 390.8 |
| 102.5° | 392.5 | 391.6 | 390.8 | 395.0 | 396.7 | 395.0 | 392.5 | 384.9 | 386.6 | 374.9 | 366.5 |
| 105° | 370.7 | 370.7 | 369.8 | 372.4 | 367.3 | 364.8 | 361.5 | 361.5 | 363.1 | 353.9 | 341.3 |
| 107.5° | 346.4 | 345.5 | 346.4 | 345.5 | 339.6 | 337.1 | 336.3 | 333.8 | 339.6 | 334.6 | 321.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *350.5* | 350.5 | 349.7 | 340.5 | 337.1 | 332.9 | 331.3 | 335.5 | 333.8 | 325.4 | 317.0 |
| 112.5° | *429.4* | 424.3 | 427.7 | 415.1 | 409.3 | 412.6 | 414.3 | 417.6 | 424.3 | 410.9 | 398.4 |
| 115° | *479.7* | 480.5 | 488.9 | 488.9 | 476.3 | 482.2 | 482.2 | 481.4 | 488.1 | 478.0 | 465.4 |
| 117.5° | *391.6* | 396.7 | 423.5 | 406.7 | 410.9 | 414.3 | 393.3 | 385.8 | 384.1 | 386.6 | 413.4 |
| 120° | *451.2* | 444.5 | 469.6 | 416.8 | 400.9 | 400.9 | 416.0 | 435.3 | 414.3 | 382.4 | 390.8 |
| 122.5° | *738.0* | 738.8 | 739.7 | 762.3 | 759.8 | 766.5 | 754.8 | 739.7 | 696.1 | 696.9 | 657.5 |
| 125° | *1129.6* | 1118.7 | 1118.7 | 1108.7 | 1107.0 | 1091.1 | 1111.2 | 1123.8 | 1090.2 | 1033.2 | 971.1 |
| 127.5° | *1081.0* | 1104.5 | 1096.1 | 1070.9 | 1046.6 | 1038.2 | 1061.7 | 1101.1 | 1081.8 | 1031.5 | 974.5 |
| 130° | *767.3* | 773.2 | 771.5 | 798.4 | 805.1 | 796.7 | 805.1 | 776.6 | 780.8 | 792.5 | 762.3 |
| 132.5° | *643.2* | 639.9 | 651.6 | 688.5 | 702.8 | 686.0 | 662.5 | 641.6 | 642.4 | 667.6 | 665.9 |
| 135° | *554.3* | 551.8 | 560.2 | 561.9 | 577.8 | 564.4 | 543.4 | 543.4 | 548.5 | 554.3 | 551.8 |
| 137.5° | *500.7* | 497.3 | 499.8 | 480.5 | 461.2 | 460.4 | 477.2 | 486.4 | 481.4 | 475.5 | 468.8 |
| 140° | *431.1* | 432.7 | 428.5 | 412.6 | 404.2 | 405.9 | 416.8 | 431.1 | 426.9 | 414.3 | 404.2 |
| 142.5° | *343.0* | 339.6 | 344.7 | 356.4 | 373.2 | 373.2 | 356.4 | 338.8 | 338.0 | 343.8 | 352.2 |
| 145° | *338.0* | 336.3 | 337.1 | 334.6 | 338.0 | 334.6 | 329.6 | 324.6 | 318.7 | 314.5 | 311.1 |
| 147.5° | *366.5* | 366.5 | 365.6 | 361.5 | 358.1 | 352.2 | 353.9 | 359.8 | 363.1 | 359.8 | 354.7 |
| 150° | *297.7* | 300.2 | 300.2 | 299.4 | 296.0 | 298.6 | 301.9 | 303.6 | 306.9 | 306.9 | 301.9 |
| 152.5° | *228.9* | 228.1 | 230.6 | 227.3 | 226.4 | 228.1 | 232.3 | 235.7 | 236.5 | 236.5 | 229.8 |
| 155° | *218.0* | 216.4 | 218.0 | 216.4 | 214.7 | 216.4 | 219.7 | 221.4 | 223.1 | 220.6 | 213.9 |
| 157.5° | *203.8* | 203.8 | 203.8 | 202.1 | 202.9 | 202.9 | 204.6 | 205.5 | 206.3 | 205.5 | 203.8 |
| 160° | *192.9* | 192.9 | 193.7 | 192.9 | 192.9 | 194.6 | 193.7 | 192.9 | 192.9 | 192.0 | 191.2 |
| 162.5° | *186.2* | 186.2 | 186.2 | 186.2 | 185.3 | 185.3 | 186.2 | 185.3 | 184.5 | 183.7 | 185.3 |
| 165° | *182.8* | 182.0 | 182.0 | 182.0 | 182.8 | 182.0 | 182.0 | 182.0 | 181.1 | 183.7 | 187.0 |
| 167.5° | *189.5* | 187.9 | 188.7 | 189.5 | 189.5 | 188.7 | 188.7 | 188.7 | 190.4 | 192.9 | 195.4 |
| 170° | *198.8* | 197.9 | 197.9 | 198.8 | 198.8 | 197.9 | 197.9 | 197.9 | 198.8 | 199.6 | 200.4 |
| 172.5° | *206.3* | 205.5 | 205.5 | 205.5 | 204.6 | 203.8 | 203.8 | 203.8 | 203.8 | 203.8 | 204.6 |
| 175° | *213.9* | 213.9 | 213.9 | 213.9 | 213.0 | 212.2 | 212.2 | 212.2 | 212.2 | 212.2 | 212.2 |
| 177.5° | *222.2* | 221.4 | 222.2 | 221.4 | 221.4 | 221.4 | 220.6 | 219.7 | 218.9 | 218.9 | 218.9 |
| 180° | *220.6* | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| 2.5° | 85.5 | 84.7 | 79.7 | 75.5 | 72.1 | 68.8 | 63.7 | 59.5 | 56.2 | 55.3 | 55.3 |
| 5° | 110.7 | 109.0 | 104.0 | 97.3 | 93.9 | 88.9 | 83.9 | 80.5 | 76.3 | 74.6 | 75.5 |
| 7.5° | 152.6 | 153.5 | 155.1 | 158.5 | 156.8 | 142.6 | 126.6 | 123.3 | 126.6 | 131.7 | 134.2 |
| 10° | 189.5 | 187.0 | 186.2 | 197.1 | 194.6 | 173.6 | 152.6 | 145.9 | 151.8 | 162.7 | 167.7 |
| 12.5° | 219.7 | 214.7 | 213.9 | 215.5 | 205.5 | 182.8 | 165.2 | 157.7 | 161.0 | 169.4 | 168.6 |
| 15° | 264.2 | 256.6 | 245.7 | 239.0 | 226.4 | 210.5 | 188.7 | 176.1 | 176.1 | 176.1 | 175.3 |
| 17.5° | 290.2 | 281.8 | 260.8 | 241.5 | 225.6 | 213.9 | 199.6 | 187.9 | 175.3 | 173.6 | 172.8 |
| 20° | 312.8 | 300.2 | 277.6 | 256.6 | 236.5 | 219.7 | 199.6 | 185.3 | 174.4 | 172.8 | 171.9 |
| 22.5° | 332.1 | 320.4 | 296.0 | 270.9 | 245.7 | 226.4 | 204.6 | 189.5 | 178.6 | 175.3 | 174.4 |
| 25° | 358.1 | 345.5 | 317.8 | 288.5 | 259.1 | 234.8 | 214.7 | 197.1 | 183.7 | 177.0 | 177.0 |
| 27.5° | 384.1 | 369.8 | 338.8 | 308.6 | 276.7 | 246.6 | 223.9 | 206.3 | 189.5 | 180.3 | 179.5 |
| 30° | 409.3 | 393.3 | 359.8 | 325.4 | 293.5 | 261.7 | 235.7 | 215.5 | 197.1 | 187.0 | 186.2 |
| 32.5° | 444.5 | 426.0 | 386.6 | 343.8 | 312.0 | 277.6 | 248.2 | 224.8 | 205.5 | 195.4 | 193.7 |
| 35° | 513.2 | 492.3 | 447.8 | 392.5 | 342.2 | 296.0 | 260.8 | 229.8 | 211.3 | 200.4 | 199.6 |
| 37.5° | 640.7 | 616.4 | 554.3 | 486.4 | 417.6 | 348.0 | 283.5 | 236.5 | 215.5 | 205.5 | 203.8 |
| 40° | 717.0 | 669.2 | 603.8 | 550.1 | 498.1 | 431.1 | 348.0 | 274.2 | 223.9 | 212.2 | 210.5 |
| 42.5° | 816.0 | 766.5 | 671.7 | 569.4 | 503.2 | 450.3 | 391.6 | 343.8 | 271.7 | 229.8 | 222.2 |
| 45° | 909.9 | 872.2 | 790.8 | 681.8 | 581.2 | 489.8 | 416.8 | 370.7 | 324.6 | 276.7 | 269.2 |
| 47.5° | 1067.6 | 1012.2 | 904.9 | 793.3 | 691.0 | 588.7 | 502.3 | 412.6 | 353.1 | 324.6 | 322.9 |
| 50° | 1471.8 | 1371.2 | 1216.0 | 1082.7 | 889.8 | 733.0 | 630.7 | 510.7 | 434.4 | 390.0 | 375.7 |
| 52.5° | 1994.3 | 1889.4 | 1712.5 | 1519.6 | 1305.8 | 1103.6 | 903.2 | 731.3 | 607.2 | 529.2 | 531.7 |
| 55° | 2772.5 | 2667.7 | 2407.7 | 2077.3 | 1783.8 | 1573.3 | 1358.6 | 1149.8 | 950.2 | 835.3 | 821.0 |
| 57.5° | 3593.5 | 3499.6 | 3277.4 | 2874.0 | 2406.9 | 2017.8 | 1762.8 | 1615.2 | 1512.9 | 1387.9 | 1387.9 |
| 60° | 4195.7 | 4039.7 | 3788.1 | 3381.4 | 2967.1 | 2455.5 | 2128.5 | 1917.1 | 1898.7 | 1876.9 | 1893.6 |
| 62° | *4503.5* | *4302.2* | *3943.3* | *3486.2* | *3101.3* | *2645.9* | *2328.0* | *2118.4* | *2081.5* | *1999.3* | *2001.0* |
| 62.5° | 4555.5 | 4333.2 | 3969.3 | 3486.2 | 3113.0 | 2662.7 | 2349.9 | 2145.2 | 2094.1 | 1993.4 | 1995.1 |
| 65° | 4607.5 | 4339.9 | 3988.5 | 3430.0 | 3046.8 | 2604.8 | 2364.1 | 2097.4 | 1963.2 | 1794.7 | 1745.2 |
| 67.5° | 4308.9 | 4034.7 | 3733.6 | 3189.3 | 2791.0 | 2364.1 | 2097.4 | 1829.9 | 1611.0 | 1439.9 | 1413.1 |
| 70° | 3499.6 | 3284.1 | 3051.8 | 2635.8 | 2287.8 | 1942.3 | 1715.8 | 1474.3 | 1256.3 | 1067.6 | 1079.3 |
| 72.5° | 2656.0 | 2454.7 | 2241.7 | 1977.5 | 1761.1 | 1528.8 | 1328.4 | 1133.8 | 952.7 | 835.3 | 857.1 |
| 75° | 2057.2 | 1923.0 | 1772.0 | 1580.0 | 1415.6 | 1200.9 | 972.8 | 800.1 | 677.6 | 606.3 | 610.5 |
| 77.5° | 1691.5 | 1552.3 | 1429.0 | 1252.9 | 1096.9 | 877.2 | 657.5 | 509.9 | 438.6 | 406.7 | 398.4 |
| 80° | 1300.7 | 1199.2 | 1090.2 | 932.6 | 760.6 | 591.2 | 442.0 | 373.2 | 326.2 | 302.7 | 293.5 |
| 82.5° | 908.2 | 845.3 | 753.9 | 639.9 | 540.9 | 478.9 | 414.3 | 356.4 | 307.8 | 286.0 | 275.9 |
| 85° | 748.1 | 714.5 | 664.2 | 599.6 | 540.9 | 472.2 | 400.0 | 341.3 | 299.4 | 282.6 | 273.4 |
| 87.5° | 728.8 | 706.1 | 649.1 | 580.3 | 509.9 | 439.4 | 366.5 | 312.0 | 285.1 | 274.2 | 265.8 |
| 90° | 668.4 | 642.4 | 602.1 | 534.2 | 471.3 | 395.8 | 336.3 | 303.6 | 283.5 | 270.9 | 261.7 |
| 92.5° | 582.9 | 568.6 | 531.7 | 483.1 | 439.4 | 390.8 | 348.0 | 318.7 | 297.7 | 282.6 | 273.4 |
| 95° | 518.3 | 501.5 | 480.5 | 441.1 | 405.1 | 365.6 | 326.2 | 298.6 | 276.7 | 260.8 | 253.3 |
| 97.5° | 426.0 | 414.3 | 394.2 | 368.2 | 341.3 | 309.5 | 281.8 | 263.3 | 249.1 | 241.5 | 236.5 |
| 100° | 386.6 | 379.1 | 367.3 | 348.9 | 327.1 | 304.4 | 284.3 | 274.2 | 268.4 | 263.3 | 260.8 |
| 102.5° | 358.1 | 349.7 | 340.5 | 321.2 | 304.4 | 284.3 | 270.9 | 262.5 | 254.9 | 246.6 | 244.9 |
| 105° | 332.9 | 326.2 | 313.6 | 297.7 | 280.9 | 261.7 | 245.7 | 240.7 | 234.0 | 226.4 | 225.6 |
| 107.5° | 313.6 | 306.9 | 296.0 | 279.3 | 264.2 | 247.4 | 233.1 | 225.6 | 218.0 | 213.9 | 213.0 |

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

Scaled Data Report

REPORT NUMBER: P1046391
CATALOG NUMBER: FFX-CLB-80-740-U-FR-T4

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 312.0 | 306.9 | 295.2 | 280.9 | 269.2 | 252.4 | 236.5 | 234.0 | 225.6 | 215.5 | 214.7 |
| 112.5° | 389.1 | 373.2 | 350.5 | 327.1 | 306.9 | 290.2 | 270.0 | 249.9 | 233.1 | 223.1 | 221.4 |
| 115° | 451.2 | 435.3 | 407.6 | 373.2 | 341.3 | 305.3 | 270.9 | 245.7 | 236.5 | 234.0 | 237.3 |
| 117.5° | 424.3 | 390.8 | 343.8 | 322.9 | 295.2 | 275.9 | 262.5 | 256.6 | 241.5 | 245.7 | 249.9 |
| 120° | 407.6 | 384.9 | 343.8 | 340.5 | 327.9 | 306.1 | 275.1 | 268.4 | 260.0 | 253.3 | 252.4 |
| 122.5° | 655.0 | 633.2 | 586.2 | 514.9 | 437.8 | 385.8 | 366.5 | 326.2 | 277.6 | 240.7 | 234.8 |
| 125° | 928.4 | 893.1 | 800.9 | 722.1 | 619.8 | 509.9 | 410.9 | 326.2 | 260.0 | 224.8 | 220.6 |
| 127.5° | 946.8 | 907.4 | 826.9 | 720.4 | 590.4 | 456.2 | 353.9 | 292.7 | 248.2 | 224.8 | 220.6 |
| 130° | 738.0 | 712.8 | 653.3 | 553.5 | 463.8 | 384.1 | 326.2 | 276.7 | 236.5 | 218.9 | 216.4 |
| 132.5° | 652.5 | 629.8 | 545.1 | 462.1 | 402.5 | 341.3 | 292.7 | 245.7 | 211.3 | 199.6 | 197.9 |
| 135° | 539.2 | 514.1 | 457.9 | 406.7 | 363.1 | 313.6 | 265.0 | 224.8 | 200.4 | 194.6 | 193.7 |
| 137.5° | 460.4 | 448.7 | 406.7 | 370.7 | 331.3 | 288.5 | 248.2 | 217.2 | 202.1 | 197.1 | 196.2 |
| 140° | 397.5 | 395.0 | 369.0 | 337.1 | 297.7 | 252.4 | 221.4 | 202.9 | 197.1 | 194.6 | 193.7 |
| 142.5° | 351.4 | 348.0 | 319.5 | 282.6 | 247.4 | 223.9 | 212.2 | 206.3 | 201.3 | 194.6 | 192.9 |
| 145° | 304.4 | 298.6 | 280.9 | 265.0 | 254.1 | 246.6 | 235.7 | 217.2 | 197.9 | 187.9 | 187.0 |
| 147.5° | 346.4 | 336.3 | 317.0 | 294.4 | 270.9 | 246.6 | 223.9 | 204.6 | 188.7 | 182.8 | 182.0 |
| 150° | 291.0 | 290.2 | 277.6 | 260.0 | 242.4 | 220.6 | 203.8 | 191.2 | 184.5 | 183.7 | 183.7 |
| 152.5° | 225.6 | 225.6 | 225.6 | 221.4 | 213.0 | 201.3 | 188.7 | 181.1 | 181.1 | 184.5 | 185.3 |
| 155° | 212.2 | 213.0 | 213.9 | 212.2 | 205.5 | 194.6 | 183.7 | 180.3 | 181.1 | 184.5 | 185.3 |
| 157.5° | 202.1 | 202.1 | 202.9 | 201.3 | 197.9 | 190.4 | 182.8 | 179.5 | 180.3 | 182.0 | 182.8 |
| 160° | 190.4 | 190.4 | 191.2 | 191.2 | 187.9 | 185.3 | 182.0 | 179.5 | 179.5 | 180.3 | 181.1 |
| 162.5° | 186.2 | 186.2 | 186.2 | 186.2 | 185.3 | 185.3 | 185.3 | 185.3 | 184.5 | 184.5 | 184.5 |
| 165° | 187.9 | 187.9 | 185.3 | 184.5 | 186.2 | 188.7 | 192.9 | 193.7 | 189.5 | 188.7 | 188.7 |
| 167.5° | 196.2 | 196.2 | 193.7 | 192.0 | 194.6 | 197.1 | 202.9 | 204.6 | 201.3 | 197.9 | 197.9 |
| 170° | 201.3 | 201.3 | 201.3 | 202.1 | 202.9 | 205.5 | 208.8 | 210.5 | 209.7 | 208.8 | 208.8 |
| 172.5° | 204.6 | 204.6 | 206.3 | 208.0 | 210.5 | 212.2 | 213.9 | 215.5 | 217.2 | 217.2 | 218.0 |
| 175° | 211.3 | 212.2 | 213.9 | 214.7 | 216.4 | 218.0 | 219.7 | 221.4 | 222.2 | 222.2 | 222.2 |
| 177.5° | 218.0 | 218.0 | 218.0 | 218.9 | 219.7 | 220.6 | 221.4 | 222.2 | 222.2 | 223.1 | 223.9 |
| 180° | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 | 220.6 |

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

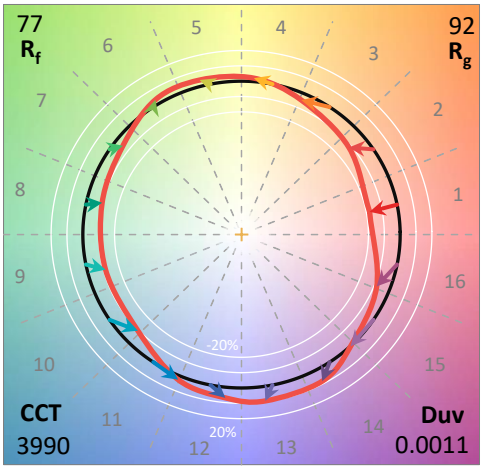
## Test Information

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

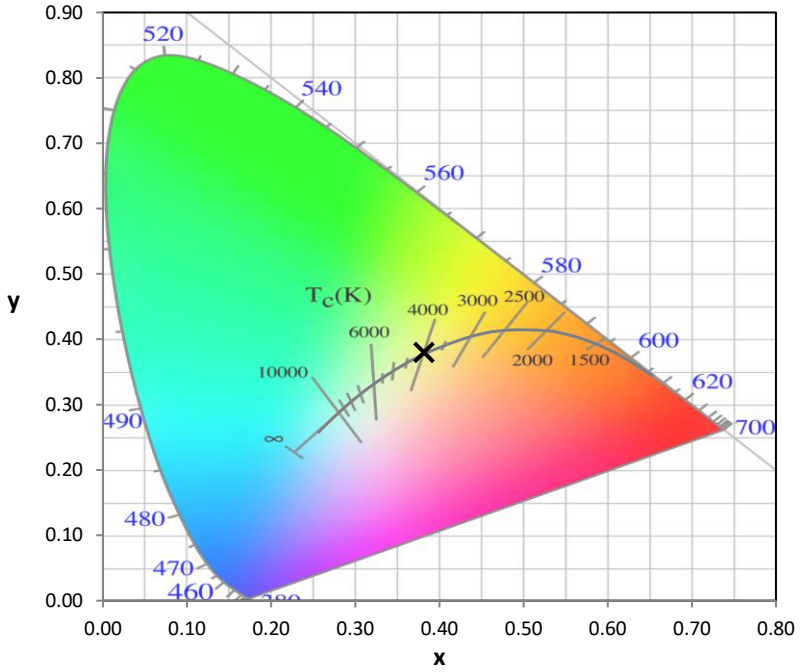
| | |
|---|---|
| Stabilization Time: | 70M |
| Operation Time: | 2H 10M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-1

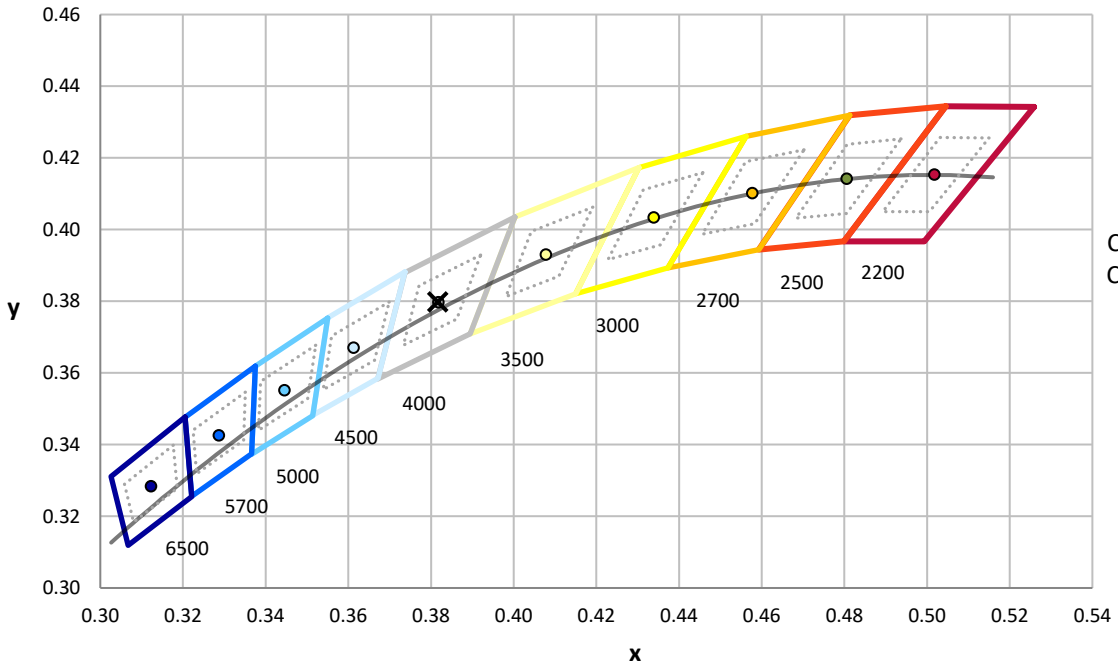
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

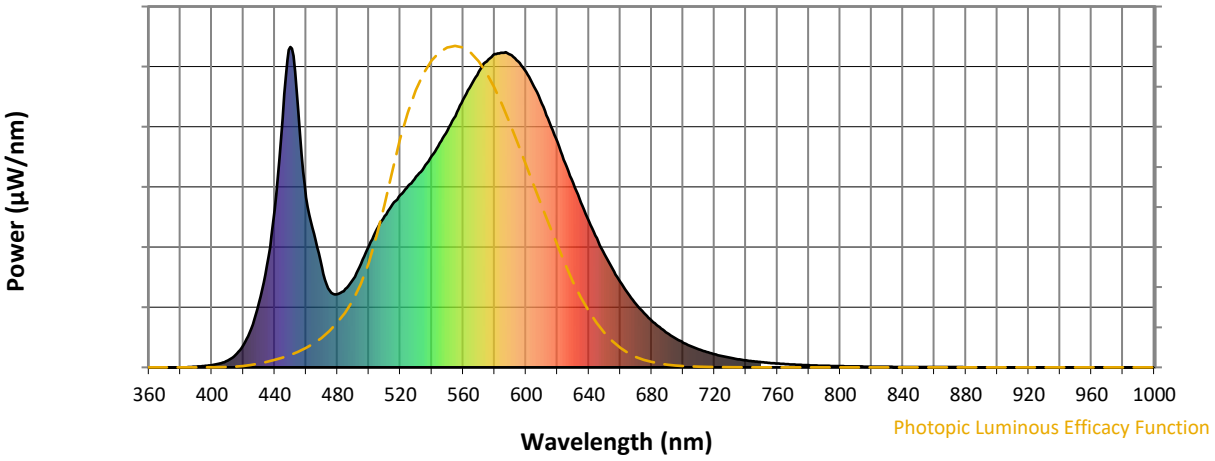



CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

## Photopic Flux vs. Wavelength

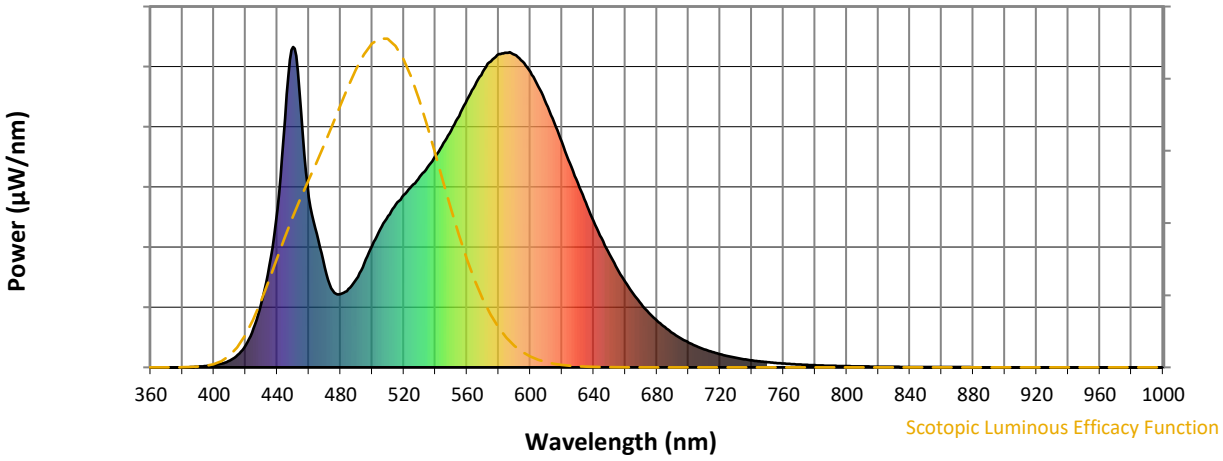



## Photopic Lumens: NR

| 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

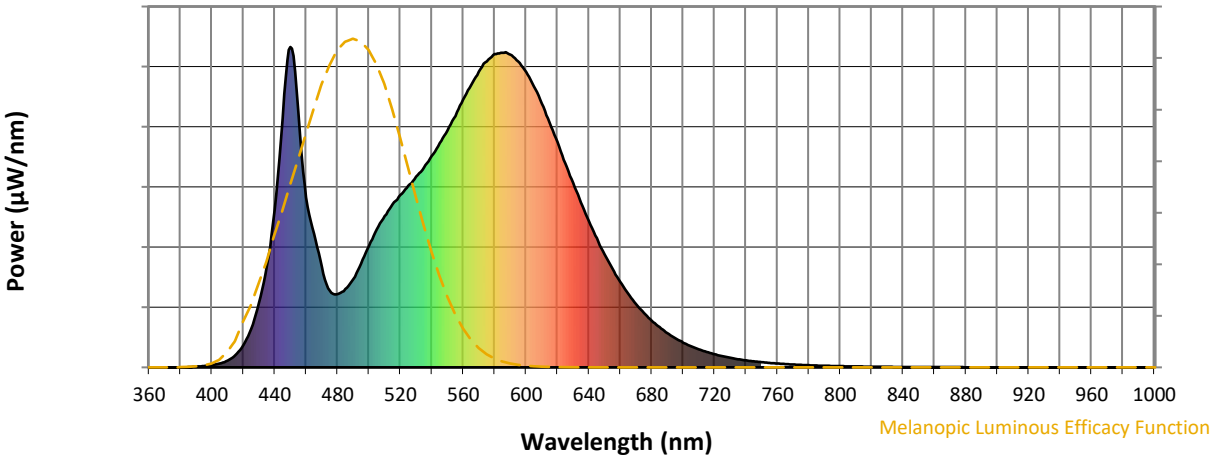



**Scotopic Lumens: NR** **S/P: 1.59**

| 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 | | | |

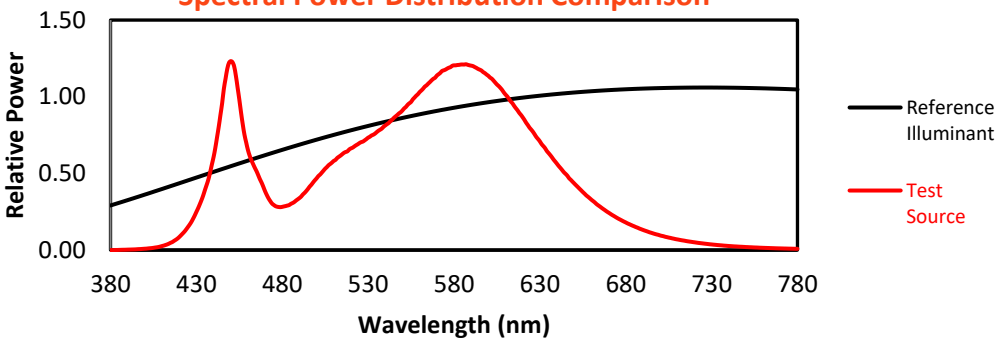
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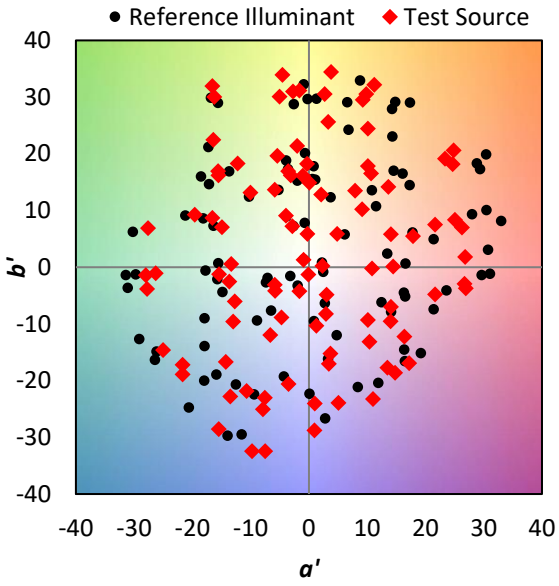
## Summary

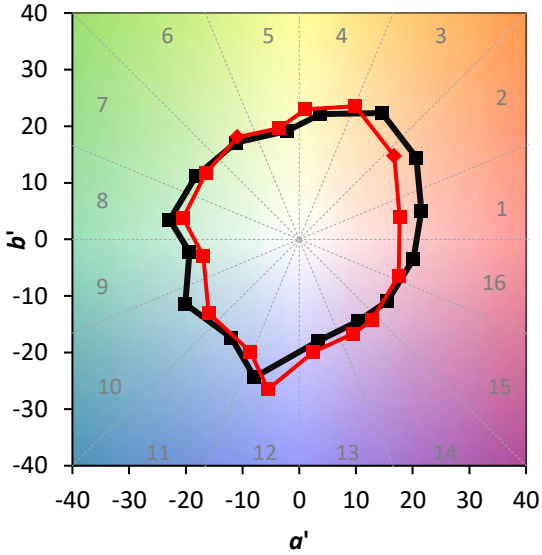
$R_f$ = 77.5
$R_g$ = 91.9
CIE $R_a$ = 73.9
$R_9$ = -36.4

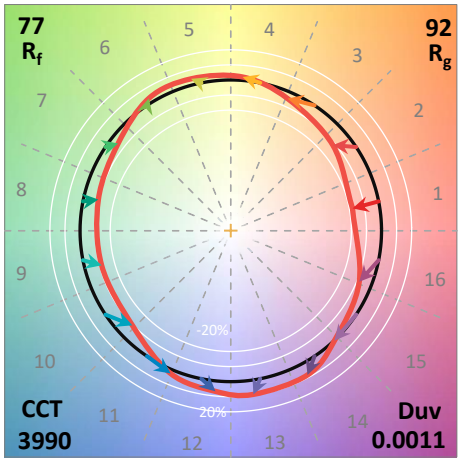
## Spectral Power Distribution Comparison

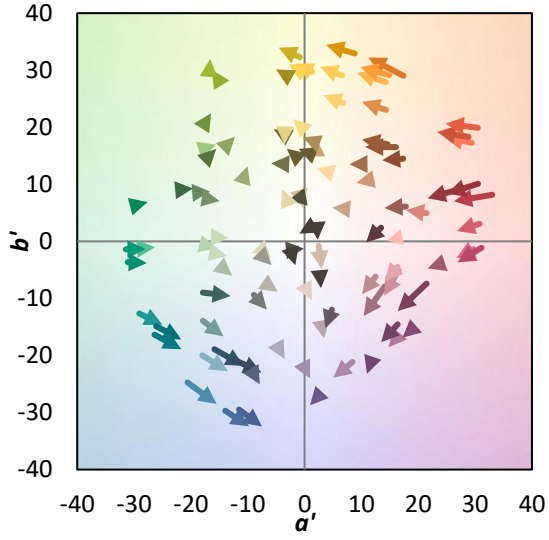



## Color Vector Graphics



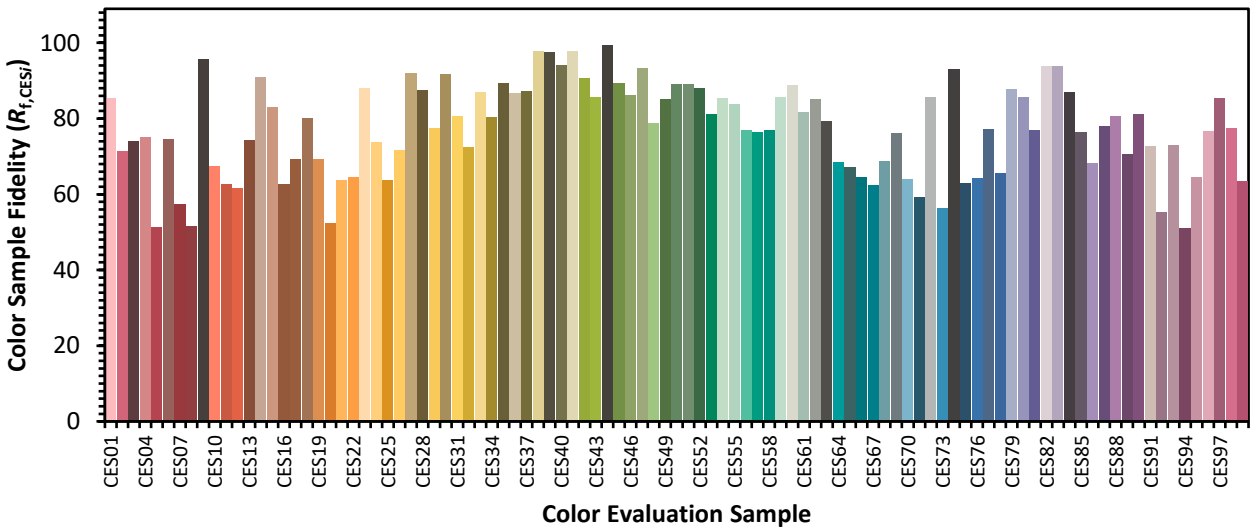



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**Individual Sample Fidelity Index ($R_{f,i}$)**

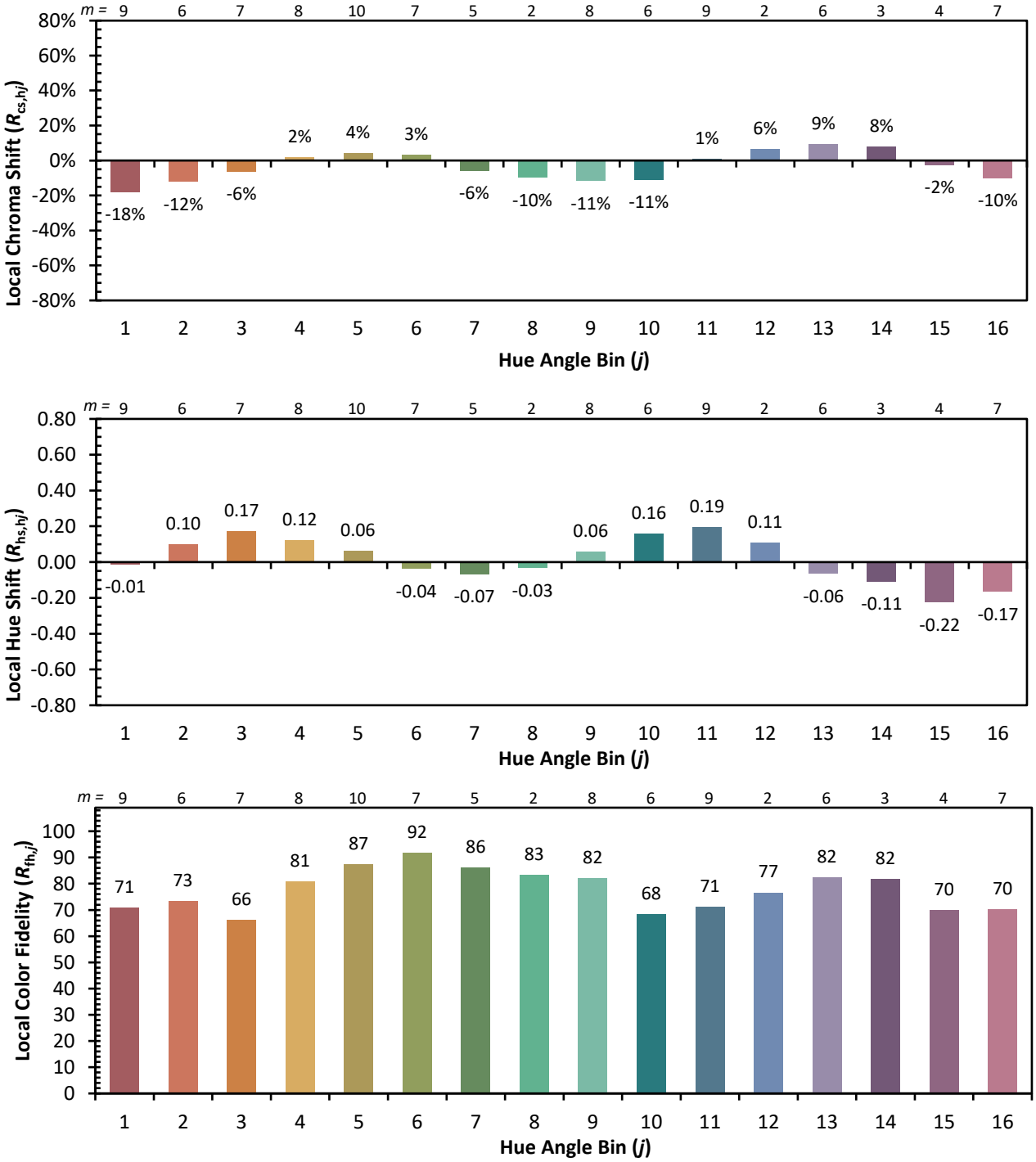
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 89 | CES76 = 64 |
| CES02 = 61 | CES27 = 92 | CES52 = 88 | CES77 = 77 |
| CES03 = 30 | CES28 = 88 | CES53 = 81 | CES78 = 65 |
| CES04 = 70 | CES29 = 78 | CES54 = 85 | CES79 = 88 |
| CES05 = 47 | CES30 = 92 | CES55 = 84 | CES80 = 86 |
| CES06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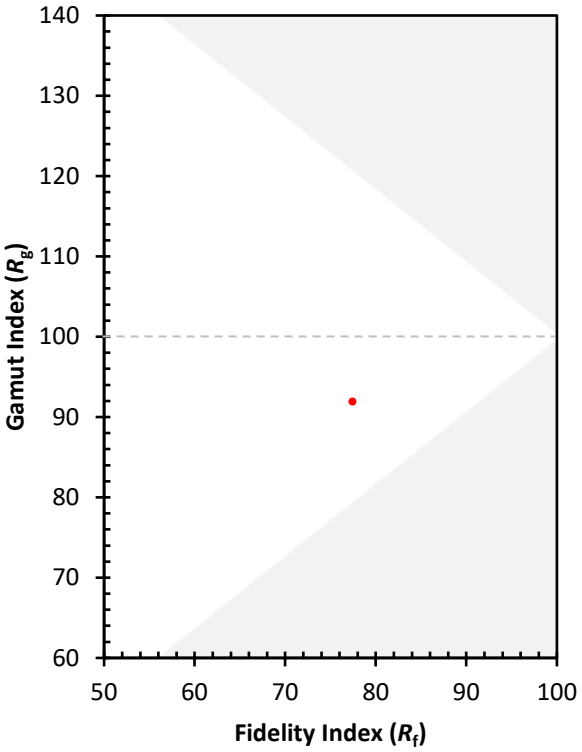
## Color Rendition by Hue-Angle Bin

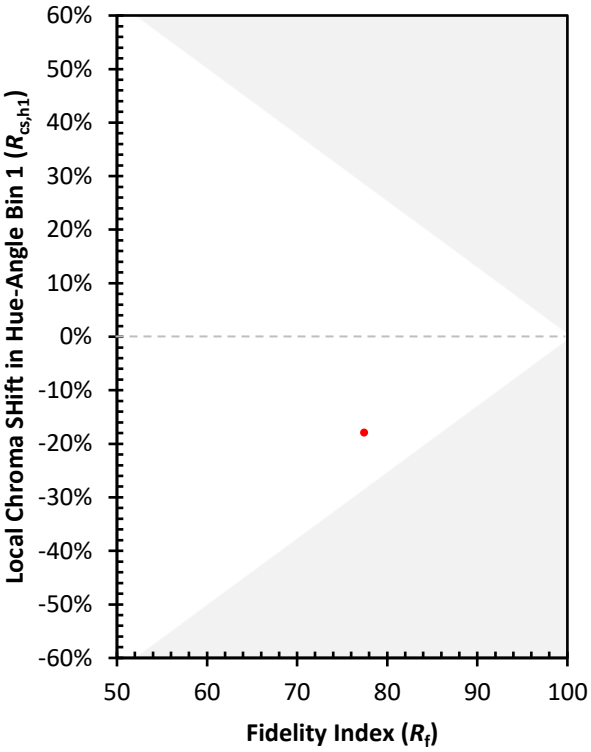


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## Measure Comparisons




(END OF REPORT)