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: P1046418

Luminaire Tested: **FFX-CLB-80-727-U-FR-T4-UPLR**

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: | P1046418 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-80-727-U-FR-T4-UPLR |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR |
| Light Source: | (4) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11501.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 140.6 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U4 - 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 |

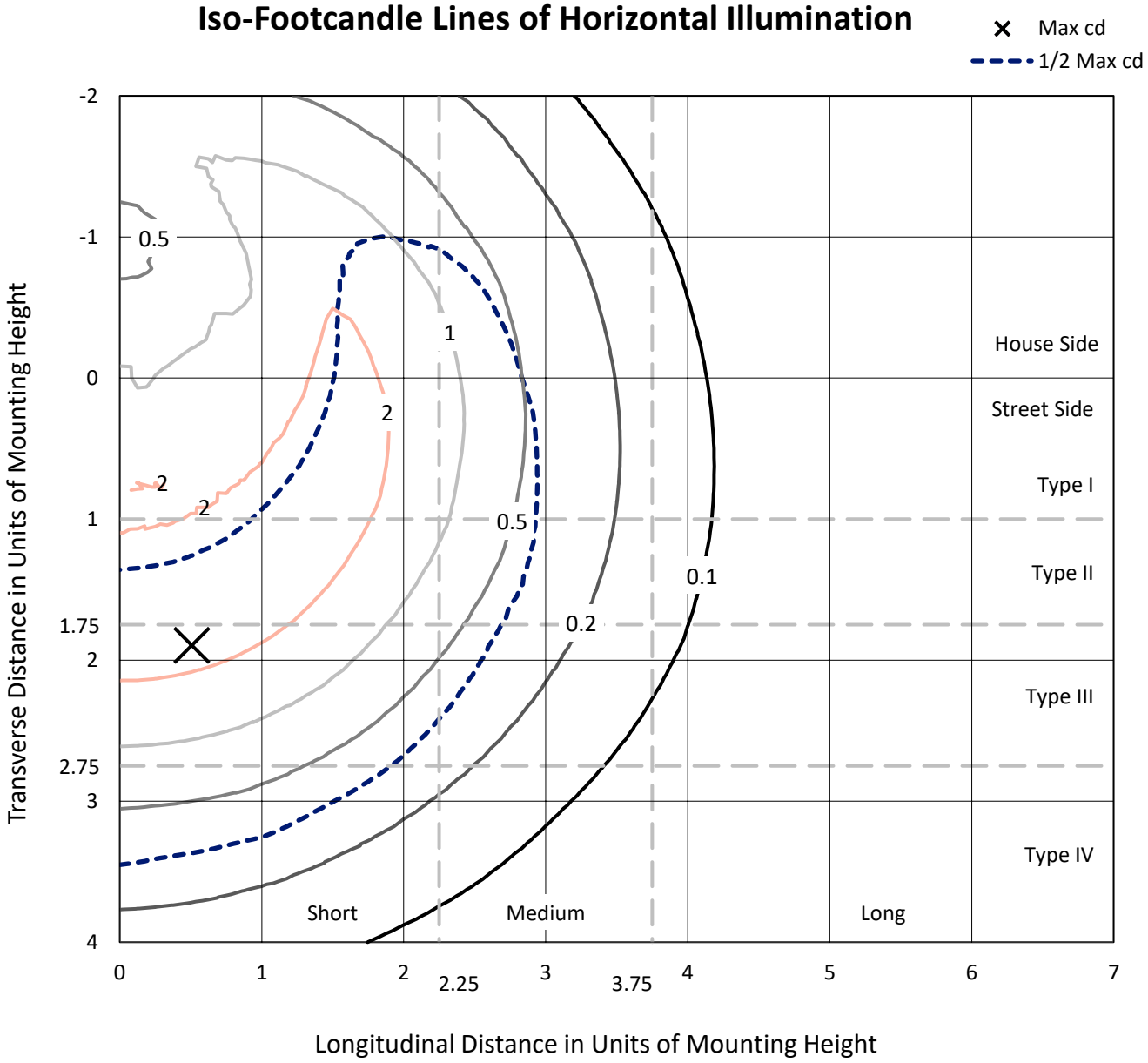


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## Iso-Footcandle Lines of Horizontal Illumination



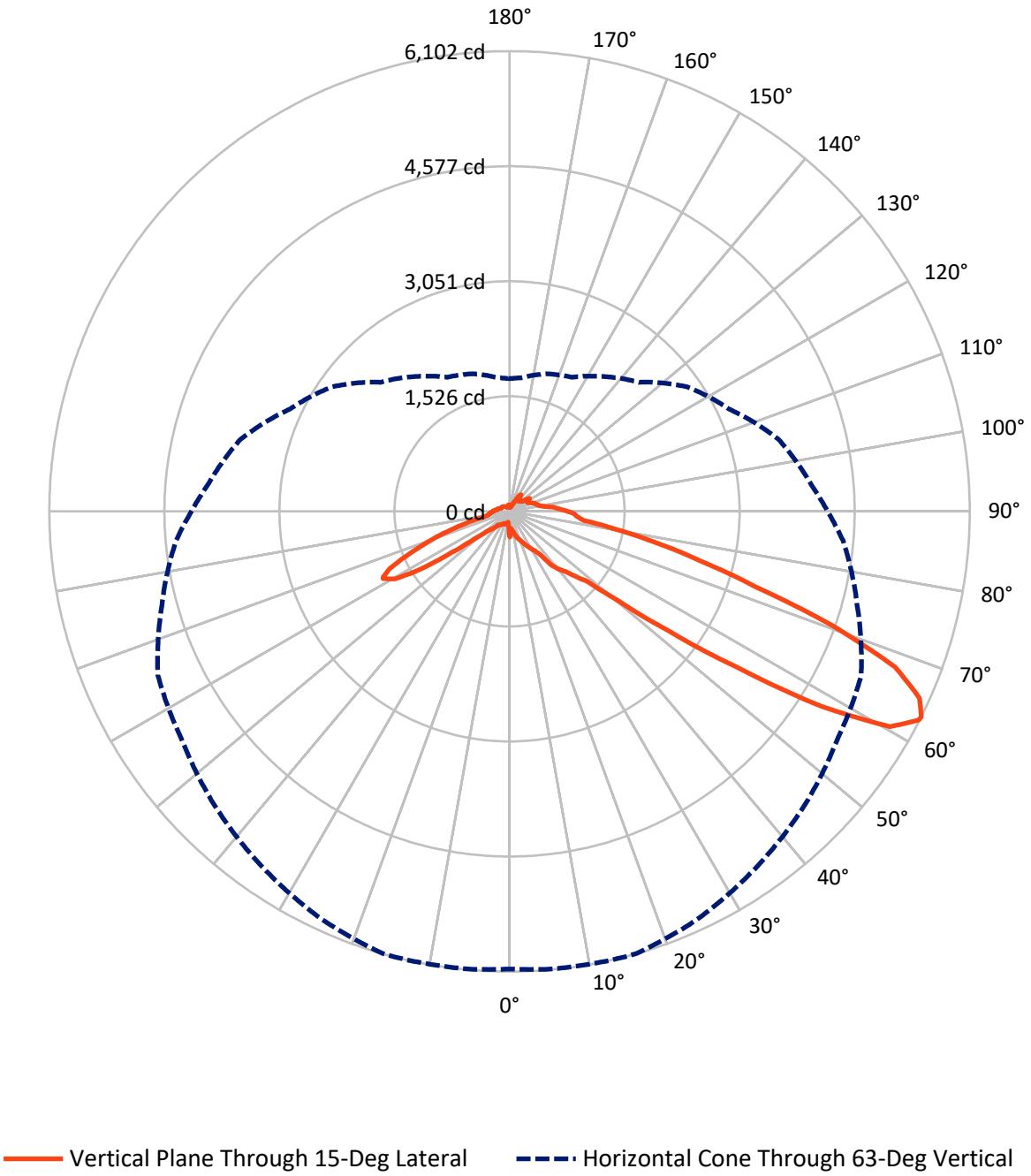

Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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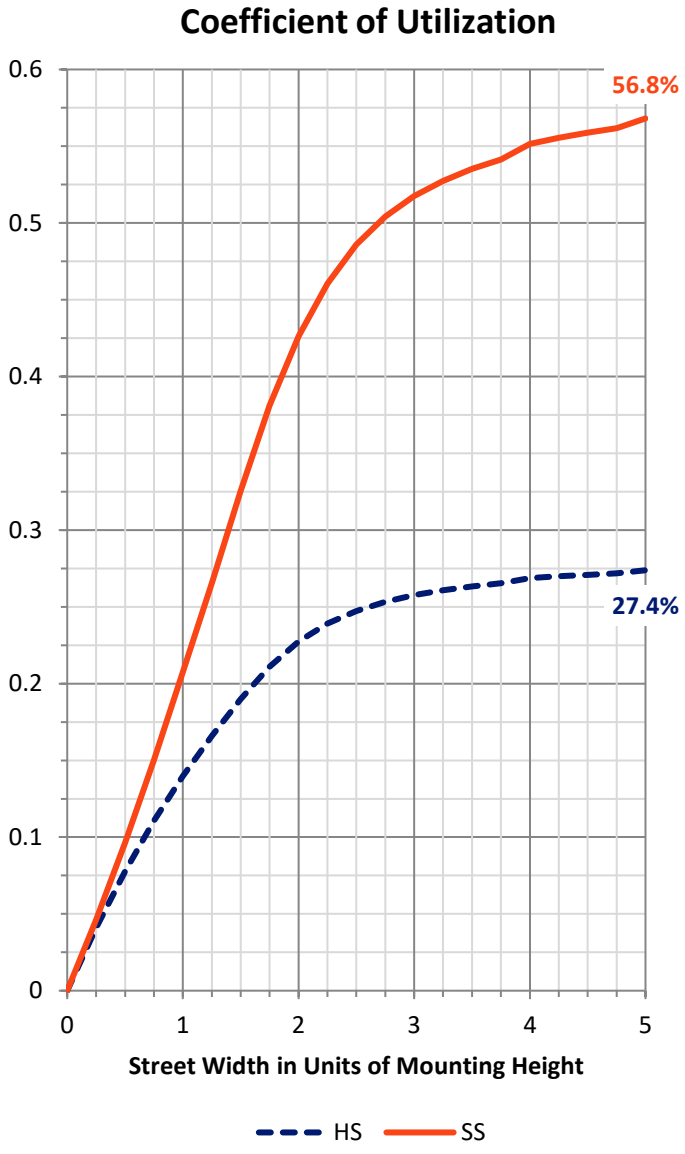
REPORT NUMBER: P1046418
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3252.8 | 530.0 | 3782.7 |
| | % Fixture | 28.3 | 4.6 | 32.9 |
| **Street Side** | Lumens | 6810.8 | 907.8 | 7718.6 |
| | % Fixture | 59.2 | 7.9 | 67.1 |
| **Total** | Lumens | 10063.6 | 1437.8 | 11501.4 |
| | % Fixture | 87.5 | 12.5 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 20.9 | 0.2 |
| 10°-20° | 75.3 | 0.7 |
| 20°-30° | 163.2 | 1.4 |
| 30°-40° | 335.4 | 2.9 |
| 40°-50° | 691.7 | 6.0 |
| 50°-60° | 2275.3 | 19.8 |
| 60°-70° | 3767.2 | 32.8 |
| 70°-80° | 1975.9 | 17.2 |
| 80°-90° | 758.7 | 6.6 |
| 90°-100° | 458.3 | 4.0 |
| 100°-110° | 288.7 | 2.5 |
| 110°-120° | 213.8 | 1.9 |
| 120°-130° | 182.0 | 1.6 |
| 130°-140° | 118.7 | 1.0 |
| 140°-150° | 103.2 | 0.9 |
| 150°-160° | 47.2 | 0.4 |
| 160°-170° | 19.3 | 0.2 |
| 170°-180° | 6.7 | 0.1 |
| 0°-90° | 10063.6 | 87.5 |
| 0°-180° | 11501.4 | 100.0 |



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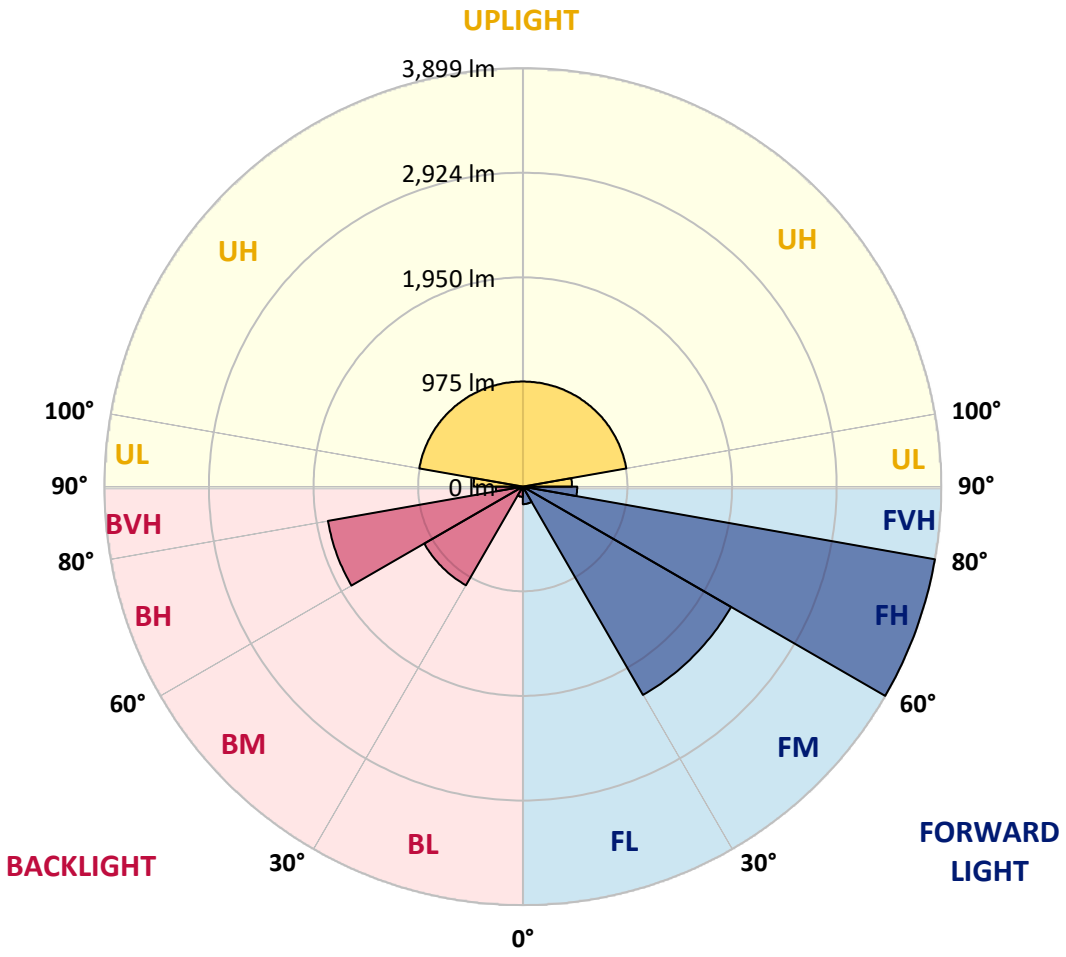
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REPORT NUMBER: P1046418
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 163.6 | 1.4 | | | |
| FM | (30°-60°) | 2241.1 | 19.5 | | | |
| FH | (60°-80°) | 3899.1 | 33.9 | | | G2/5000 |
| FVH | (80°-90°) | 506.9 | 4.4 | | | G4/750 |
| BL | (0°-30°) | 95.7 | 0.8 | B0/110 | | |
| BM | (30°-60°) | 1061.3 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 1844.0 | 16.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 251.8 | 2.2 | | | G3/500 |
| UL | (90°-100°) | 458.3 | 4.0 | | U3/500 | |
| UH | (100°-180°) | 979.5 | 8.5 | | U4/1000 | |

**BUG Rating: B3-U4-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 16° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 339.7 | 339.7 | *339.7* | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 |
| 2.5° | 209.1 | 209.1 | *239.3* | 244.6 | 273.3 | 282.3 | 266.5 | 254.4 | 283.8 | 344.2 | 354.0 |
| 5° | 227.2 | 231.7 | *231.0* | 230.2 | 231.7 | 258.9 | 286.8 | 274.0 | 224.9 | 178.9 | 178.9 |
| 7.5° | 257.4 | 258.9 | *258.2* | 257.4 | 247.6 | 231.7 | 224.9 | 245.3 | 258.2 | 219.7 | 184.2 |
| 10° | 278.5 | 277.0 | *276.3* | 275.5 | 277.0 | 283.1 | 280.8 | 255.9 | 231.0 | 218.1 | 210.6 |
| 12.5° | 318.5 | 319.3 | *317.0* | 315.5 | 314.0 | 311.8 | 309.5 | 314.8 | 301.2 | 264.2 | 239.3 |
| 15° | 348.7 | 348.7 | *354.8* | 353.3 | 353.3 | 345.7 | 335.2 | 320.1 | 301.9 | 292.1 | 270.2 |
| 17.5° | 380.4 | 381.2 | *380.4* | 380.4 | 377.4 | 367.6 | 356.3 | 342.7 | 323.8 | 307.2 | 288.3 |
| 20° | 411.4 | 411.4 | *410.6* | 409.9 | 409.1 | 401.6 | 387.2 | 369.1 | 351.8 | 335.9 | 316.3 |
| 22.5° | 443.8 | 446.1 | *447.6* | 446.1 | 443.8 | 436.3 | 420.4 | 403.1 | 386.5 | 363.8 | 342.7 |
| 25° | 489.9 | 490.6 | *489.1* | 487.6 | 484.6 | 474.8 | 462.7 | 444.6 | 424.2 | 400.1 | 372.1 |
| 27.5° | 533.7 | 535.2 | *534.4* | 534.4 | 528.4 | 520.1 | 508.0 | 483.9 | 461.2 | 433.3 | 404.6 |
| 30° | 583.5 | 582.0 | *578.2* | 579.0 | 575.2 | 568.4 | 554.8 | 533.7 | 505.0 | 471.8 | 440.1 |
| 32.5° | 632.6 | 632.6 | *627.3* | 625.0 | 625.0 | 616.0 | 600.9 | 579.0 | 551.8 | 516.3 | 485.4 |
| 35° | 686.2 | 699.7 | *713.3* | 718.6 | 718.6 | 705.8 | 687.7 | 659.0 | 635.6 | 598.6 | 560.1 |
| 37.5° | 943.6 | 935.3 | *902.0* | 905.8 | 894.5 | 889.2 | 877.1 | 853.0 | 820.5 | 763.9 | 705.0 |
| 40° | 1034.1 | 1032.6 | *1007.7* | 1004.7 | 999.4 | 982.1 | 969.2 | 952.6 | 941.3 | 873.4 | 785.0 |
| 42.5° | 1050.0 | 1058.3 | *1091.5* | 1099.8 | 1142.8 | 1116.4 | 1065.1 | 971.5 | 948.1 | 896.8 | 859.8 |
| 45° | 1228.1 | 1231.1 | *1231.1* | 1232.7 | 1221.3 | 1201.7 | 1194.9 | 1135.3 | 1088.5 | 1014.5 | 945.1 |
| 47.5° | 1405.5 | 1412.3 | *1385.9* | 1407.0 | 1436.5 | 1396.5 | 1378.3 | 1329.3 | 1265.1 | 1207.7 | 1093.8 |
| 50° | 1817.7 | 1844.1 | *1849.4* | 1850.1 | 1863.0 | 1859.9 | 1832.8 | 1764.8 | 1700.7 | 1569.3 | 1442.5 |
| 52.5° | 2580.8 | 2606.5 | *2617.8* | 2590.6 | 2550.6 | 2532.5 | 2539.3 | 2511.4 | 2362.7 | 2221.5 | 1964.1 |
| 55° | 3577.2 | 3621.7 | *3621.7* | 3650.4 | 3638.3 | 3552.3 | 3547.0 | 3364.3 | 3124.3 | 2967.3 | 2743.1 |
| 57.5° | 4910.3 | 4843.1 | *4880.8* | 4921.6 | 4838.5 | 4748.0 | 4612.8 | 4421.9 | 4070.9 | 3799.9 | 3475.3 |
| 60° | 5898.3 | 5871.2 | *5796.4* | 5750.4 | 5542.8 | 5363.2 | 5256.7 | 5117.1 | 4850.6 | 4494.3 | 4060.3 |
| 62.5° | 6079.5 | 6099.1 | *6093.8* | 6093.8 | 5927.8 | 5712.6 | 5497.5 | 5293.0 | 5127.6 | 4760.8 | 4417.3 |
| 63° | *6068.2* | *6092.3* | *6102.1* | *6099.1* | *5949.7* | *5737.6* | *5523.9* | *5298.2* | *5145.0* | *4770.6* | *4438.5* |
| 65° | 5971.6 | 5991.9 | *5974.6* | 5968.5 | 5874.2 | 5730.8 | 5490.7 | 5267.3 | 5127.6 | 4726.8 | 4441.5 |
| 67.5° | 5583.6 | 5579.0 | *5514.1* | 5543.6 | 5483.9 | 5403.9 | 5179.7 | 4959.3 | 4862.7 | 4424.9 | 4162.2 |
| 70° | 4509.4 | 4477.7 | *4548.7* | 4591.0 | 4526.0 | 4494.3 | 4227.9 | 4082.9 | 3958.4 | 3625.5 | 3413.4 |
| 72.5° | 3447.4 | 3381.7 | *3393.8* | 3432.3 | 3350.7 | 3328.9 | 3214.9 | 3095.6 | 3036.0 | 2828.4 | 2592.9 |
| 75° | 2703.1 | 2667.6 | *2601.9* | 2612.5 | 2545.3 | 2523.4 | 2511.4 | 2476.6 | 2453.2 | 2280.4 | 2047.1 |
| 77.5° | 2021.5 | 2020.0 | *1964.9* | 1956.6 | 1908.2 | 1944.5 | 1930.1 | 1982.2 | 1970.9 | 1833.5 | 1656.1 |
| 80° | 1414.6 | 1406.3 | *1420.6* | 1415.3 | 1404.0 | 1425.1 | 1402.5 | 1431.2 | 1431.2 | 1341.4 | 1266.6 |
| 82.5° | 923.2 | 939.8 | *985.1* | 995.6 | 1012.2 | 1062.1 | 982.1 | 939.8 | 928.5 | 918.6 | 882.4 |
| 85° | 916.4 | 920.9 | *901.3* | 903.5 | 896.0 | 877.1 | 891.5 | 898.3 | 886.9 | 832.6 | 752.6 |
| 87.5° | 863.5 | 869.6 | *853.7* | 858.3 | 830.3 | 836.4 | 845.4 | 850.7 | 845.4 | 797.1 | 730.7 |
| 90° | 727.7 | 734.5 | *748.8* | 748.8 | 751.1 | 752.6 | 738.2 | 746.5 | 741.3 | 695.2 | 646.9 |
| 92.5° | 645.4 | 651.4 | *652.2* | 652.9 | 646.9 | 666.5 | 643.1 | 628.8 | 625.0 | 588.0 | 553.3 |
| 95° | 590.3 | 583.5 | *582.0* | 583.5 | 580.5 | 579.7 | 564.6 | 554.1 | 549.5 | 520.1 | 486.1 |
| 97.5° | 462.0 | 465.7 | *464.2* | 468.0 | 460.5 | 459.7 | 446.9 | 433.3 | 428.8 | 404.6 | 382.0 |
| 100° | 405.4 | 404.6 | *406.1* | 406.9 | 402.3 | 397.0 | 388.0 | 378.2 | 372.9 | 354.8 | 332.9 |
| 102.5° | 380.4 | 379.7 | *382.7* | 383.5 | 379.7 | 375.9 | 368.4 | 362.3 | 357.8 | 341.2 | 317.0 |
| 105° | 364.6 | 362.3 | *366.1* | 366.1 | 357.8 | 355.5 | 350.2 | 349.5 | 346.5 | 326.8 | 303.4 |
| 107.5° | 342.7 | 338.9 | *343.5* | 342.7 | 339.7 | 337.4 | 332.9 | 329.9 | 327.6 | 311.0 | 284.6 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 16° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 322.3 | 317.0 | *319.3* | 320.8 | 323.1 | 321.6 | 317.8 | 311.8 | 305.7 | 292.1 | 270.2 |
| 112.5° | 284.6 | 287.6 | *286.8* | 286.8 | 289.1 | 289.9 | 283.1 | 279.3 | 275.5 | 264.9 | 250.6 |
| 115° | 270.2 | 270.2 | *270.2* | 270.2 | 264.2 | 261.9 | 255.1 | 250.6 | 249.9 | 237.0 | 228.0 |
| 117.5° | 258.9 | 260.4 | *264.2* | 266.5 | 274.0 | 269.5 | 254.4 | 244.6 | 240.8 | 235.5 | 225.7 |
| 120° | 305.0 | 299.7 | *294.4* | 293.6 | 294.4 | 291.4 | 288.3 | 281.6 | 272.5 | 258.2 | 231.0 |
| 122.5° | 326.8 | 313.3 | *315.5* | 314.8 | 309.5 | 311.8 | 312.5 | 313.3 | 307.2 | 284.6 | 242.3 |
| 125° | 274.0 | 270.2 | *272.5* | 274.8 | 275.5 | 274.8 | 273.3 | 280.0 | 271.7 | 264.2 | 232.5 |
| 127.5° | 218.9 | 217.4 | *212.9* | 212.1 | 210.6 | 211.4 | 211.4 | 213.6 | 206.1 | 198.5 | 197.0 |
| 130° | 208.3 | 205.3 | *206.1* | 206.8 | 206.1 | 201.5 | 198.5 | 194.7 | 194.0 | 186.4 | 175.9 |
| 132.5° | 188.7 | 190.2 | *203.1* | 204.6 | 213.6 | 208.3 | 192.5 | 181.9 | 183.4 | 187.2 | 183.4 |
| 135° | 176.6 | 175.9 | *185.7* | 186.4 | 200.0 | 196.3 | 183.4 | 171.3 | 171.3 | 180.4 | 176.6 |
| 137.5° | 180.4 | 181.9 | *182.7* | 183.4 | 182.7 | 181.9 | 181.2 | 175.9 | 172.1 | 171.3 | 162.3 |
| 140° | 194.0 | 193.2 | *185.7* | 186.4 | 185.7 | 185.7 | 190.2 | 194.0 | 181.2 | 169.8 | 154.7 |
| 142.5° | 203.1 | 205.3 | *202.3* | 206.1 | 212.9 | 206.8 | 199.3 | 189.5 | 181.9 | 174.4 | 165.3 |
| 145° | 275.5 | 270.2 | *268.0* | 266.5 | 261.9 | 249.1 | 241.5 | 231.7 | 222.7 | 210.6 | 195.5 |
| 147.5° | 249.9 | 251.4 | *246.8* | 248.3 | 242.3 | 237.8 | 236.3 | 237.0 | 234.0 | 227.2 | 211.4 |
| 150° | 198.5 | 200.0 | *195.5* | 193.2 | 191.0 | 191.0 | 191.0 | 192.5 | 188.7 | 184.2 | 176.6 |
| 152.5° | 138.9 | 137.4 | *135.9* | 135.1 | 133.6 | 132.1 | 132.1 | 132.9 | 129.1 | 127.6 | 121.5 |
| 155° | 127.6 | 126.8 | *120.8* | 119.3 | 120.8 | 122.3 | 123.0 | 120.8 | 117.8 | 114.7 | 106.4 |
| 157.5° | 99.6 | 97.4 | *96.6* | 98.1 | 98.1 | 97.4 | 95.9 | 97.4 | 94.4 | 93.6 | 92.1 |
| 160° | 81.5 | 80.8 | *81.5* | 81.5 | 82.3 | 82.3 | 81.5 | 81.5 | 80.0 | 80.8 | 80.8 |
| 162.5° | 69.4 | 69.4 | *69.4* | 68.7 | 70.2 | 71.0 | 70.2 | 70.2 | 71.0 | 73.2 | 74.7 |
| 165° | 59.6 | 59.6 | *60.4* | 60.4 | 61.1 | 61.1 | 61.9 | 62.7 | 64.2 | 69.4 | 74.0 |
| 167.5° | 55.9 | 55.9 | *56.6* | 56.6 | 57.4 | 58.1 | 59.6 | 62.7 | 67.2 | 73.2 | 75.5 |
| 170° | 55.1 | 55.1 | *55.1* | 55.1 | 55.9 | 56.6 | 59.6 | 64.2 | 69.4 | 73.2 | 71.0 |
| 172.5° | 57.4 | 57.4 | *58.1* | 58.1 | 58.1 | 61.1 | 63.4 | 67.2 | 70.2 | 71.0 | 68.7 |
| 175° | 59.6 | 58.9 | *59.6* | 59.6 | 60.4 | 62.7 | 65.7 | 67.2 | 68.7 | 69.4 | 70.2 |
| 177.5° | 58.1 | 58.1 | *58.1* | 58.9 | 58.9 | 59.6 | 61.1 | 61.9 | 63.4 | 64.9 | 67.2 |
| 180° | 56.6 | 56.6 | *56.6* | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 |
| 2.5° | 354.0 | 344.2 | 268.0 | 229.5 | 261.9 | 325.3 | 331.4 | 286.8 | 222.7 | 154.7 | 141.2 |
| 5° | 188.7 | 199.3 | 222.7 | 221.9 | 206.8 | 193.2 | 176.6 | 166.1 | 183.4 | 175.9 | 180.4 |
| 7.5° | 170.6 | 160.8 | 164.6 | 192.5 | 188.0 | 142.7 | 129.1 | 126.1 | 141.2 | 175.9 | 172.1 |
| 10° | 207.6 | 204.6 | 193.2 | 170.6 | 163.0 | 169.1 | 174.4 | 170.6 | 157.0 | 136.6 | 133.6 |
| 12.5° | 234.8 | 231.0 | 232.5 | 246.8 | 229.5 | 190.2 | 168.3 | 161.5 | 169.1 | 199.3 | 205.3 |
| 15° | 261.2 | 254.4 | 244.6 | 224.2 | 207.6 | 197.0 | 184.2 | 170.6 | 175.1 | 166.8 | 163.8 |
| 17.5° | 279.3 | 268.7 | 248.3 | 233.2 | 216.6 | 203.1 | 191.7 | 177.4 | 167.6 | 165.3 | 166.1 |
| 20° | 303.4 | 292.1 | 270.2 | 252.9 | 232.5 | 214.4 | 194.7 | 179.7 | 169.8 | 166.1 | 166.1 |
| 22.5° | 331.4 | 317.8 | 292.9 | 268.7 | 246.1 | 222.7 | 199.3 | 182.7 | 173.6 | 169.8 | 168.3 |
| 25° | 360.8 | 347.2 | 316.3 | 290.6 | 261.9 | 236.3 | 212.1 | 191.0 | 181.2 | 176.6 | 172.9 |
| 27.5° | 391.0 | 374.4 | 343.5 | 311.8 | 280.8 | 250.6 | 224.9 | 203.1 | 189.5 | 181.9 | 182.7 |
| 30° | 424.2 | 410.6 | 375.9 | 339.7 | 301.2 | 265.7 | 240.8 | 215.9 | 199.3 | 191.0 | 191.7 |
| 32.5° | 468.8 | 446.9 | 405.4 | 363.8 | 326.1 | 286.8 | 255.1 | 226.5 | 208.3 | 203.1 | 203.8 |
| 35° | 542.7 | 514.8 | 464.2 | 407.6 | 357.0 | 311.0 | 271.0 | 237.0 | 215.9 | 207.6 | 206.8 |
| 37.5° | 676.3 | 638.6 | 580.5 | 514.0 | 440.8 | 366.1 | 301.2 | 249.1 | 222.7 | 209.1 | 206.8 |
| 40° | 741.3 | 689.9 | 616.7 | 559.3 | 509.5 | 445.4 | 371.4 | 292.9 | 234.0 | 216.6 | 214.4 |
| 42.5° | 828.1 | 785.0 | 689.9 | 578.2 | 511.8 | 458.2 | 406.1 | 355.5 | 282.3 | 237.0 | 228.7 |
| 45° | 911.8 | 873.4 | 798.6 | 689.2 | 590.3 | 506.5 | 428.8 | 373.6 | 328.4 | 282.3 | 278.5 |
| 47.5° | 1053.0 | 1012.2 | 887.7 | 790.3 | 686.2 | 591.0 | 509.5 | 418.9 | 360.1 | 327.6 | 327.6 |
| 50° | 1407.0 | 1332.3 | 1209.3 | 1059.8 | 892.2 | 738.2 | 622.7 | 511.8 | 440.8 | 391.8 | 389.5 |
| 52.5° | 1901.4 | 1795.8 | 1614.6 | 1449.3 | 1251.5 | 1073.4 | 893.7 | 700.5 | 597.1 | 526.1 | 525.4 |
| 55° | 2615.5 | 2507.6 | 2265.3 | 1947.5 | 1705.2 | 1492.3 | 1305.9 | 1093.8 | 930.7 | 816.0 | 806.9 |
| 57.5° | 3377.2 | 3286.6 | 3039.8 | 2645.0 | 2263.0 | 1886.4 | 1660.7 | 1491.6 | 1413.1 | 1333.1 | 1316.4 |
| 60° | 3870.8 | 3715.3 | 3490.4 | 3113.7 | 2743.9 | 2263.8 | 1983.7 | 1789.7 | 1763.3 | 1746.0 | 1724.1 |
| 62.5° | 4181.8 | 3998.4 | 3664.0 | 3212.6 | 2872.9 | 2418.5 | 2167.9 | 1961.1 | 1899.2 | 1806.3 | 1779.9 |
| 63° | *4217.3* | *4018.0* | *3691.9* | *3210.3* | *2876.7* | *2420.8* | *2181.5* | *1961.1* | *1888.6* | *1776.9* | *1759.5* |
| 65° | 4200.7 | 4015.8 | 3690.4 | 3163.5 | 2789.1 | 2376.2 | 2142.2 | 1871.3 | 1755.8 | 1607.8 | 1578.4 |
| 67.5° | 3947.1 | 3750.1 | 3443.6 | 2925.8 | 2587.6 | 2166.4 | 1909.0 | 1621.4 | 1446.3 | 1301.3 | 1267.4 |
| 70° | 3213.4 | 3091.1 | 2821.6 | 2374.0 | 2117.3 | 1789.0 | 1563.3 | 1337.6 | 1148.1 | 995.6 | 957.1 |
| 72.5° | 2448.7 | 2320.4 | 2118.1 | 1827.5 | 1638.0 | 1412.3 | 1198.7 | 1025.1 | 868.8 | 767.7 | 770.7 |
| 75° | 1943.0 | 1820.7 | 1653.9 | 1462.9 | 1308.1 | 1107.4 | 896.0 | 723.9 | 612.9 | 552.5 | 547.3 |
| 77.5° | 1564.8 | 1480.2 | 1334.6 | 1158.7 | 1025.1 | 815.2 | 627.3 | 477.1 | 394.8 | 360.1 | 350.2 |
| 80° | 1206.2 | 1147.4 | 1038.7 | 883.9 | 745.0 | 572.9 | 427.2 | 337.4 | 293.6 | 264.2 | 258.9 |
| 82.5° | 858.3 | 822.8 | 732.2 | 624.3 | 529.9 | 440.1 | 374.4 | 315.5 | 270.2 | 245.3 | 237.8 |
| 85° | 716.3 | 683.1 | 625.8 | 558.6 | 498.2 | 432.5 | 363.1 | 300.4 | 258.2 | 238.5 | 228.7 |
| 87.5° | 695.2 | 664.3 | 609.2 | 537.4 | 471.8 | 400.8 | 330.6 | 271.7 | 241.5 | 222.7 | 216.6 |
| 90° | 622.7 | 599.3 | 551.0 | 485.4 | 419.7 | 347.2 | 286.1 | 244.6 | 221.2 | 206.1 | 199.3 |
| 92.5° | 536.7 | 516.3 | 476.3 | 421.2 | 366.1 | 314.0 | 267.2 | 232.5 | 209.1 | 194.0 | 188.7 |
| 95° | 466.5 | 453.7 | 420.4 | 373.6 | 333.6 | 290.6 | 250.6 | 217.4 | 193.2 | 179.7 | 174.4 |
| 97.5° | 372.1 | 357.0 | 332.9 | 300.4 | 270.2 | 240.0 | 210.6 | 188.0 | 170.6 | 161.5 | 157.0 |
| 100° | 323.8 | 314.0 | 292.1 | 266.5 | 240.8 | 214.4 | 191.7 | 174.4 | 163.0 | 155.5 | 151.7 |
| 102.5° | 305.0 | 298.2 | 277.8 | 252.1 | 228.0 | 202.3 | 179.7 | 163.8 | 155.5 | 148.7 | 145.7 |
| 105° | 287.6 | 282.3 | 266.5 | 243.1 | 219.7 | 191.7 | 166.1 | 152.5 | 144.9 | 140.4 | 138.1 |
| 107.5° | 269.5 | 263.4 | 248.3 | 225.7 | 205.3 | 181.2 | 158.5 | 141.9 | 132.1 | 126.8 | 126.1 |

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

Scaled Data Report

REPORT NUMBER: P1046418
CATALOG NUMBER: FFX-CLB-80-727-U-FR-T4-UPLR

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 254.4 | 249.9 | 233.2 | 215.1 | 195.5 | 172.9 | 153.2 | 135.9 | 124.5 | 118.5 | 117.8 |
| 112.5° | 238.5 | 233.2 | 216.6 | 199.3 | 182.7 | 163.0 | 145.7 | 130.6 | 120.0 | 114.0 | 113.2 |
| 115° | 217.4 | 212.9 | 200.8 | 184.2 | 170.6 | 151.7 | 137.4 | 123.8 | 115.5 | 109.5 | 108.7 |
| 117.5° | 219.7 | 206.8 | 190.2 | 175.1 | 163.0 | 149.5 | 136.6 | 126.1 | 113.2 | 106.4 | 106.4 |
| 120° | 222.7 | 210.6 | 194.0 | 181.2 | 174.4 | 163.8 | 144.2 | 129.1 | 111.7 | 104.9 | 104.2 |
| 122.5° | 219.7 | 221.2 | 212.1 | 199.3 | 185.7 | 167.6 | 143.4 | 126.8 | 109.5 | 104.2 | 104.9 |
| 125° | 212.9 | 219.7 | 206.8 | 189.5 | 171.3 | 154.0 | 133.6 | 118.5 | 107.9 | 104.2 | 103.4 |
| 127.5° | 192.5 | 191.0 | 174.4 | 161.5 | 148.7 | 134.4 | 121.5 | 112.5 | 104.9 | 100.4 | 98.1 |
| 130° | 169.8 | 169.1 | 162.3 | 151.7 | 138.9 | 126.1 | 114.7 | 108.7 | 101.1 | 95.1 | 93.6 |
| 132.5° | 178.9 | 176.6 | 162.3 | 144.9 | 130.6 | 120.0 | 112.5 | 105.7 | 95.1 | 88.3 | 87.6 |
| 135° | 169.1 | 167.6 | 153.2 | 135.9 | 123.0 | 117.8 | 112.5 | 102.7 | 89.8 | 84.5 | 83.8 |
| 137.5° | 154.7 | 148.7 | 136.6 | 126.1 | 120.0 | 118.5 | 111.7 | 100.4 | 88.3 | 82.3 | 81.5 |
| 140° | 147.2 | 142.7 | 133.6 | 126.8 | 120.0 | 111.7 | 101.9 | 91.3 | 83.0 | 78.5 | 77.7 |
| 142.5° | 156.3 | 154.7 | 141.2 | 129.1 | 118.5 | 108.7 | 98.1 | 91.3 | 82.3 | 76.2 | 75.5 |
| 145° | 184.9 | 177.4 | 160.8 | 144.2 | 135.1 | 122.3 | 108.7 | 94.4 | 77.7 | 68.7 | 66.4 |
| 147.5° | 202.3 | 195.5 | 178.9 | 160.8 | 141.2 | 120.8 | 99.6 | 81.5 | 68.7 | 61.9 | 60.4 |
| 150° | 167.6 | 164.6 | 154.0 | 137.4 | 120.8 | 101.9 | 84.5 | 71.7 | 63.4 | 58.9 | 58.9 |
| 152.5° | 117.8 | 117.0 | 112.5 | 102.7 | 92.1 | 81.5 | 72.5 | 64.9 | 60.4 | 57.4 | 57.4 |
| 155° | 104.2 | 102.7 | 99.6 | 90.6 | 83.0 | 74.0 | 67.2 | 62.7 | 59.6 | 57.4 | 57.4 |
| 157.5° | 89.8 | 88.3 | 87.6 | 80.8 | 74.7 | 68.7 | 63.4 | 59.6 | 57.4 | 55.9 | 55.1 |
| 160° | 80.0 | 77.7 | 75.5 | 71.7 | 67.9 | 64.9 | 62.7 | 59.6 | 57.4 | 55.9 | 55.9 |
| 162.5° | 74.7 | 73.2 | 69.4 | 66.4 | 64.9 | 64.9 | 65.7 | 64.2 | 59.6 | 57.4 | 56.6 |
| 165° | 74.7 | 72.5 | 67.2 | 64.2 | 64.2 | 67.9 | 71.7 | 68.7 | 64.9 | 60.4 | 59.6 |
| 167.5° | 75.5 | 74.0 | 68.7 | 66.4 | 68.7 | 73.2 | 77.0 | 76.2 | 71.0 | 67.2 | 67.2 |
| 170° | 70.2 | 69.4 | 70.2 | 72.5 | 74.7 | 75.5 | 77.0 | 76.2 | 77.7 | 83.0 | 83.0 |
| 172.5° | 67.9 | 68.7 | 72.5 | 76.2 | 80.8 | 80.8 | 77.0 | 76.2 | 83.0 | 90.6 | 92.1 |
| 175° | 71.0 | 72.5 | 76.2 | 80.8 | 84.5 | 84.5 | 80.8 | 81.5 | 88.3 | 95.1 | 96.6 |
| 177.5° | 67.9 | 68.7 | 70.2 | 69.4 | 71.0 | 67.2 | 68.7 | 67.2 | 69.4 | 69.4 | 69.4 |
| 180° | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 |

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

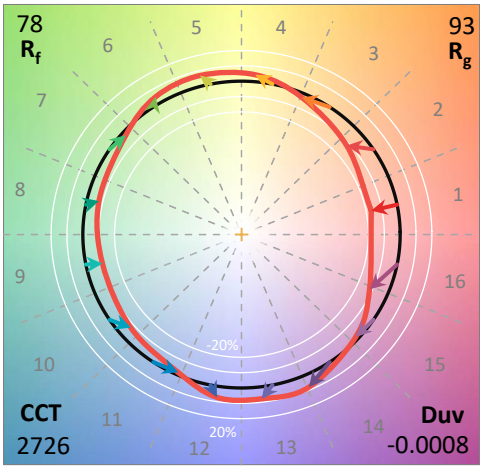
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-3 |
| 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-100-727-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2726 |
| CIE u': | 0.2616 |
| CIE v': | 0.5257 |
| Duv: | -0.0008 |
| CIE x: | 0.4564 |
| CIE y: | 0.4077 |
| CIE z: | 0.1358 |
| Peak Wavelength (nm): | 599 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 59.39437 |
| Rf: | 77.8 |
| Rg: | 93.1 |

| | |
|---|---|
| CRI (Ra): | 72.7 |
| R1: | 69.3 |
| R2: | 86.2 |
| R3: | 92.5 |
| R4: | 67.2 |
| R5: | 69.7 |
| R6: | 82.9 |
| R7: | 74.2 |
| R8: | 39.5 |
| R9: | -32.4 |
| R10: | 70.6 |
| R11: | 63.6 |
| R12: | 64.8 |
| R13: | 72.8 |
| R14: | 96.1 |
| R15: | 60.3 |




## Test Conditions

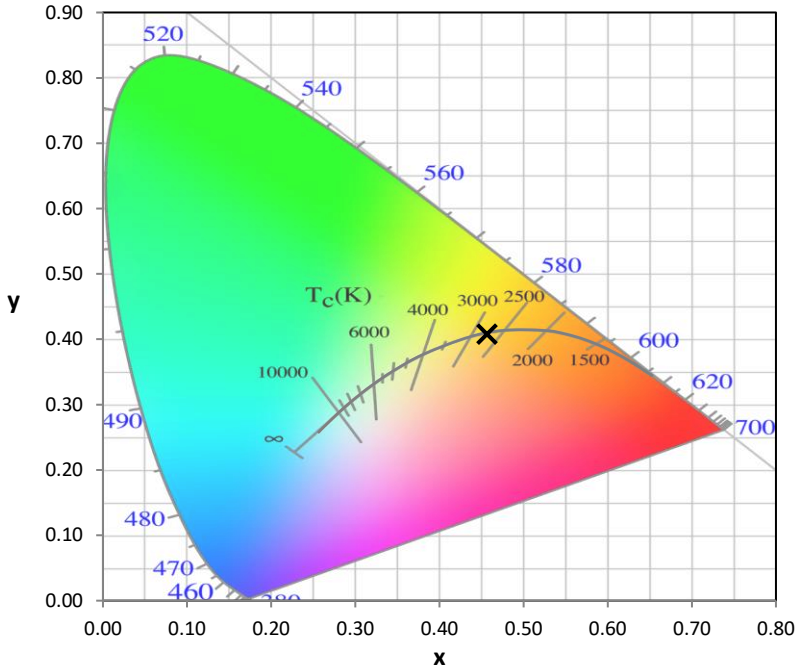
| | |
|---|---|
| Stabilization Time: | 75M |
| Operation Time: | 2H 15M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2501-332-3

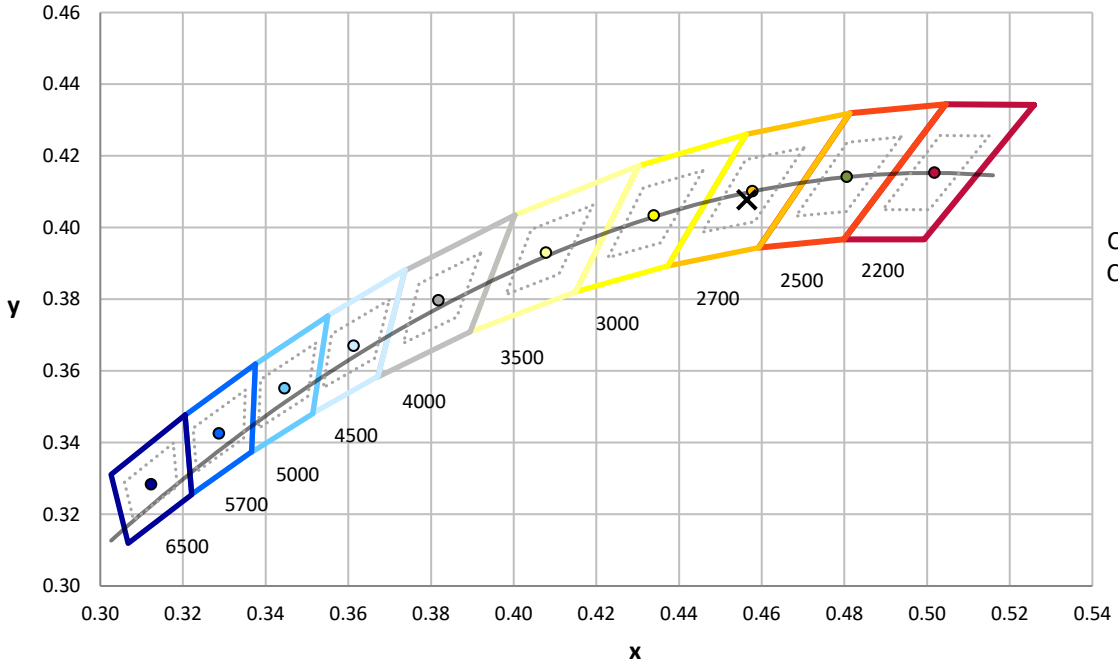
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-3

## CIE 1931 Chromaticity Diagram




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

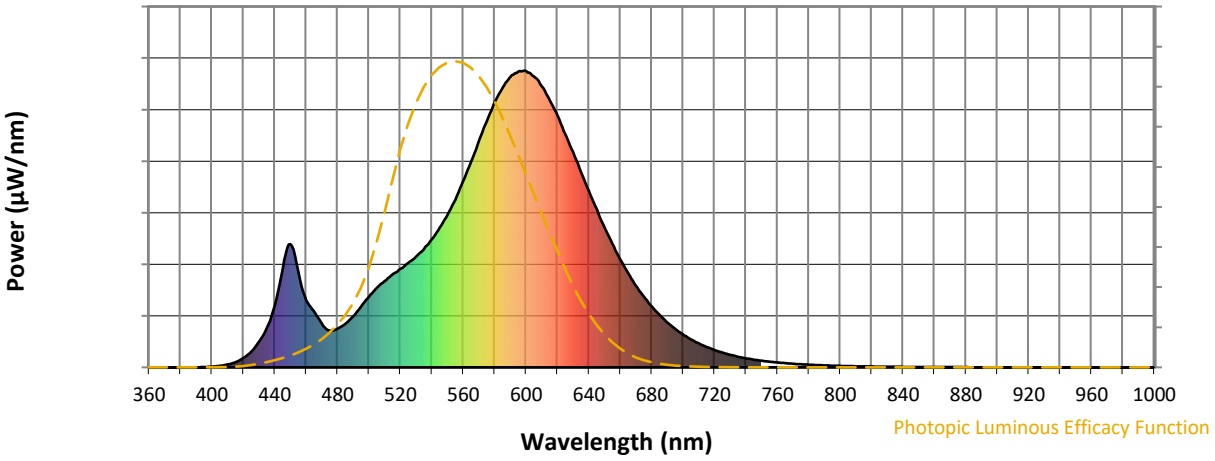



CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

## Photopic Flux vs. Wavelength

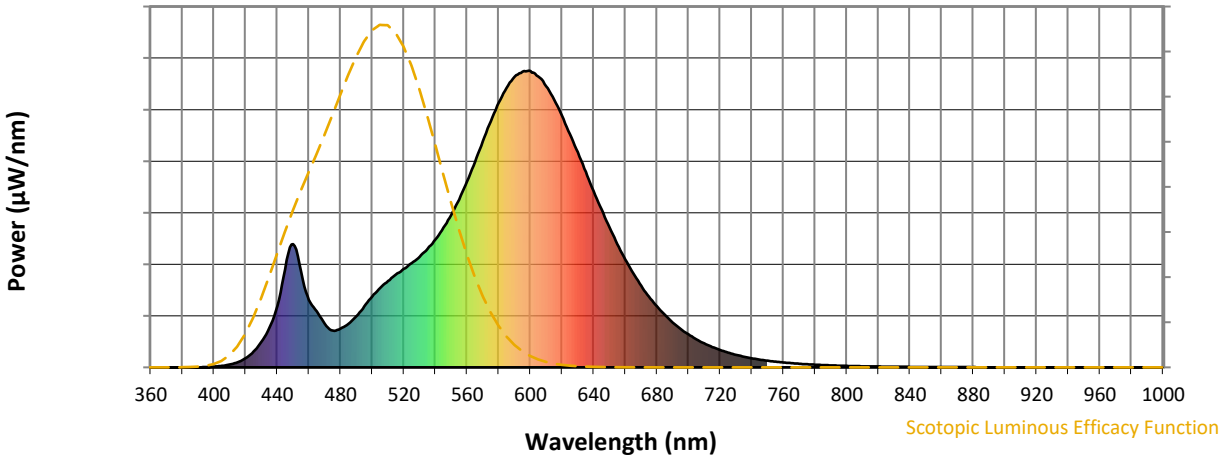



## Photopic Lumens: NR

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-3

## Scotopic Flux vs. Wavelength

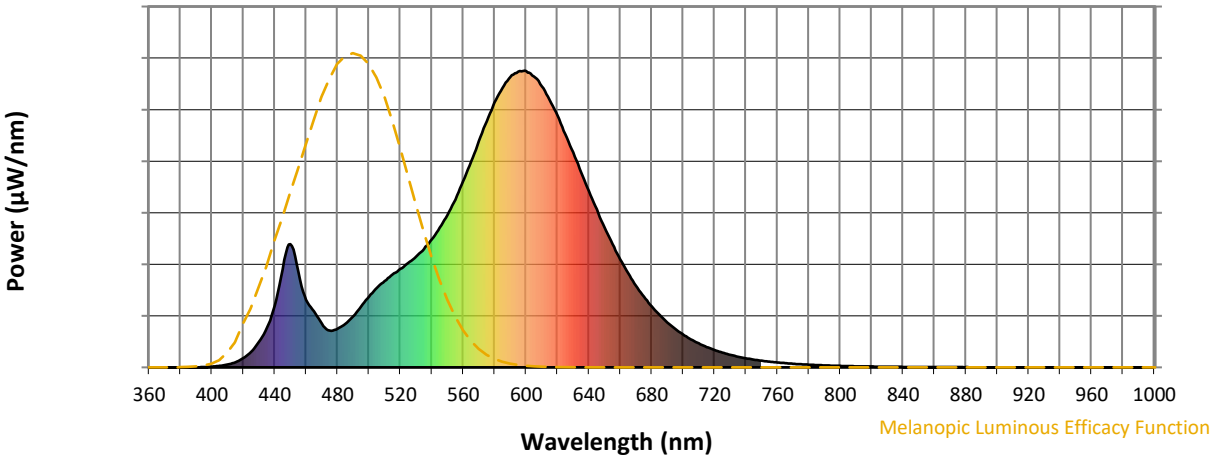



**Scotopic Lumens: NR** **S/P: 1.16**

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-3

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.15**

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

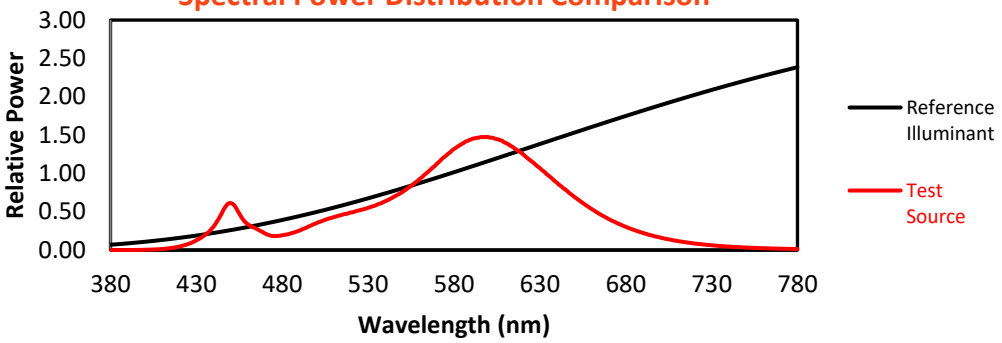
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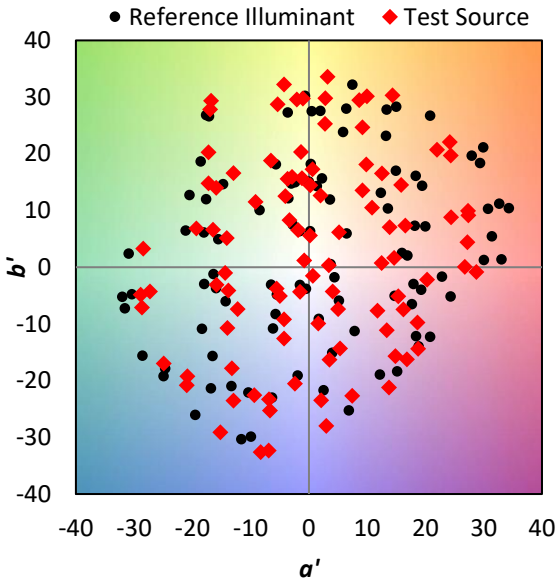
## Summary

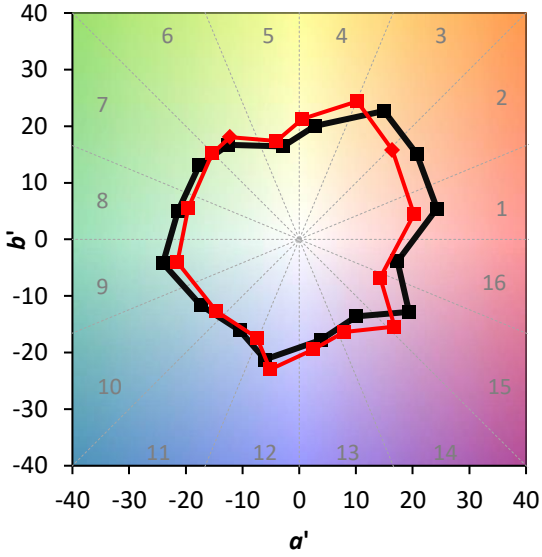
$R_f$ = 77.8
$R_g$ = 93.1
CIE $R_a$ = 72.7
$R_9$ = -32.4

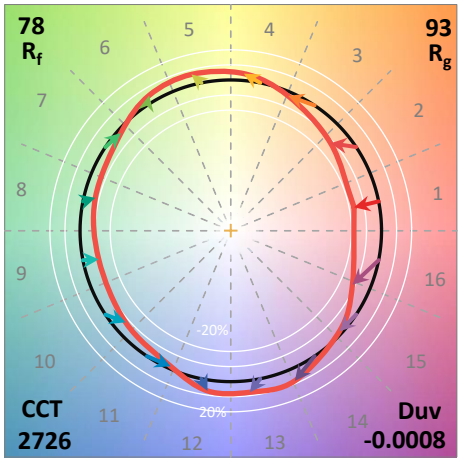
## Spectral Power Distribution Comparison

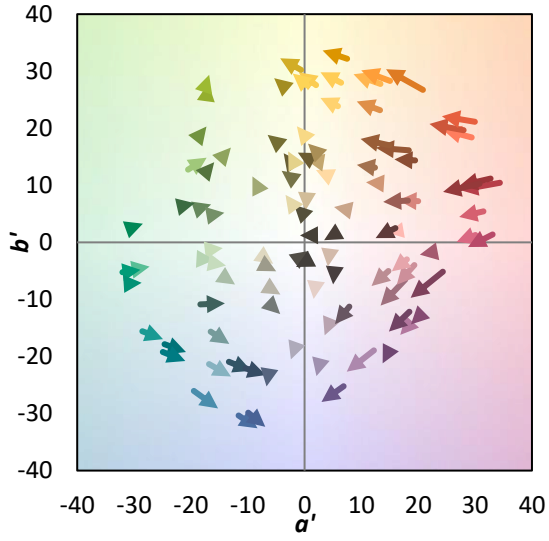



## Color Vector Graphics



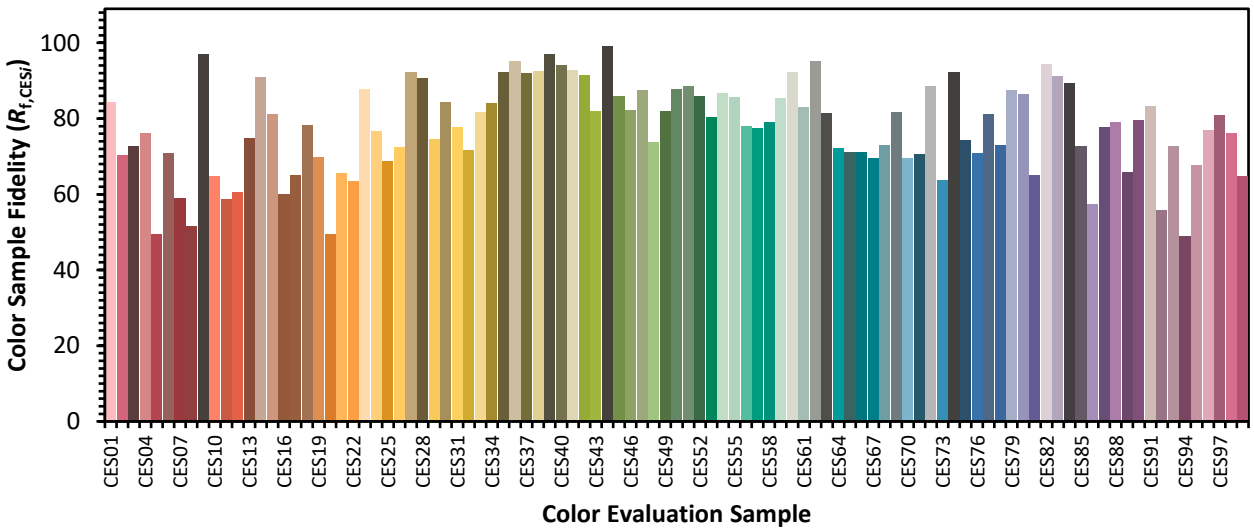



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**Individual Sample Fidelity Index ($R_{f,i}$)**

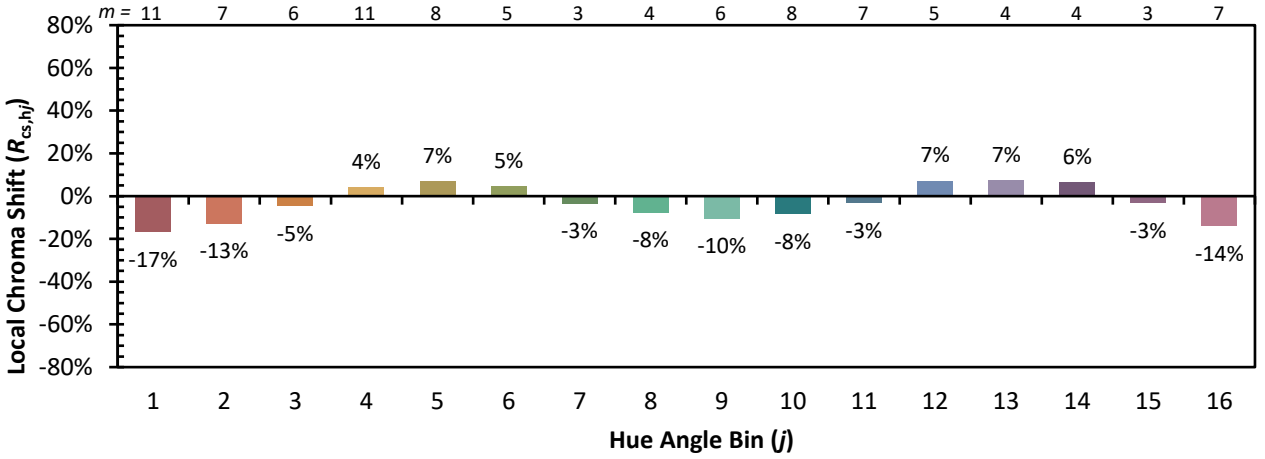
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 72 | CES51 = 88 | CES76 = 71 |
| CES02 = 63 | CES27 = 92 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 91 | CES53 = 80 | CES78 = 73 |
| CES04 = 71 | CES29 = 75 | CES54 = 87 | CES79 = 88 |
| CES05 = 50 | CES30 = 84 | CES55 = 86 | CES80 = 87 |
| CES06 = 52 | CES31 = 78 | CES56 = 78 | CES81 = 65 |
| CES07 = 42 | CES32 = 72 | CES57 = 77 | CES82 = 94 |
| CES08 = 41 | CES33 = 82 | CES58 = 79 | CES83 = 91 |
| CES09 = 29 | CES34 = 84 | CES59 = 85 | CES84 = 89 |
| CES10 = 77 | CES35 = 92 | CES60 = 92 | CES85 = 73 |
| CES11 = 60 | CES36 = 95 | CES61 = 83 | CES86 = 57 |
| CES12 = 66 | CES37 = 92 | CES62 = 95 | CES87 = 78 |
| CES13 = 44 | CES38 = 93 | CES63 = 82 | CES88 = 79 |
| CES14 = 74 | CES39 = 97 | CES64 = 72 | CES89 = 66 |
| CES15 = 72 | CES40 = 94 | CES65 = 71 | CES90 = 80 |
| CES16 = 48 | CES41 = 93 | CES66 = 71 | CES91 = 83 |
| CES17 = 51 | CES42 = 92 | CES67 = 69 | CES92 = 56 |
| CES18 = 57 | CES43 = 82 | CES68 = 73 | CES93 = 73 |
| CES19 = 73 | CES44 = 99 | CES69 = 82 | CES94 = 49 |
| CES20 = 67 | CES45 = 86 | CES70 = 70 | CES95 = 68 |
| CES21 = 87 | CES46 = 82 | CES71 = 71 | CES96 = 77 |
| CES22 = 80 | CES47 = 88 | CES72 = 89 | CES97 = 81 |
| CES23 = 92 | CES48 = 74 | CES73 = 64 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 92 | CES99 = 65 |
| CES25 = 73 | CES50 = 88 | CES75 = 74 | |

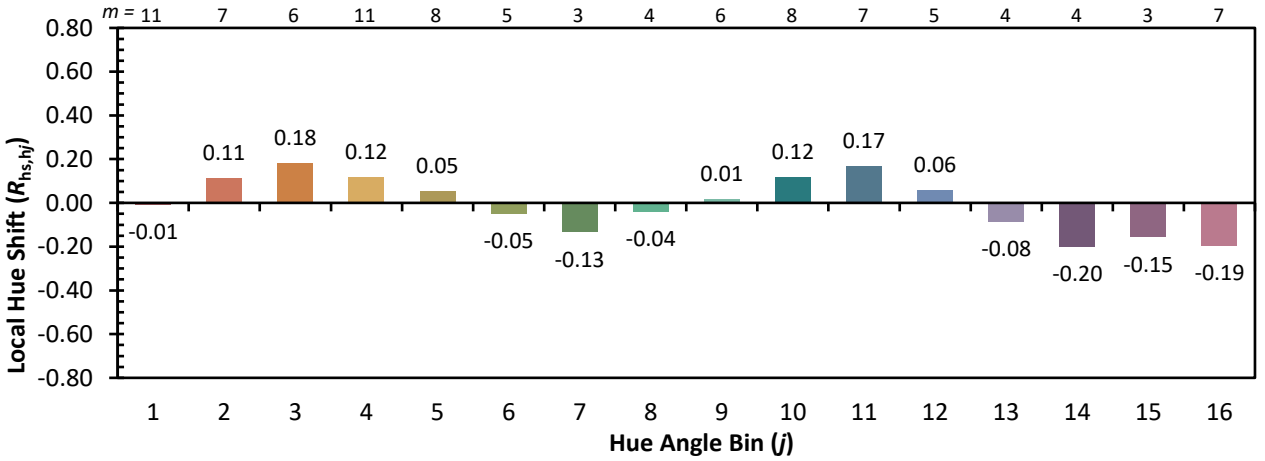


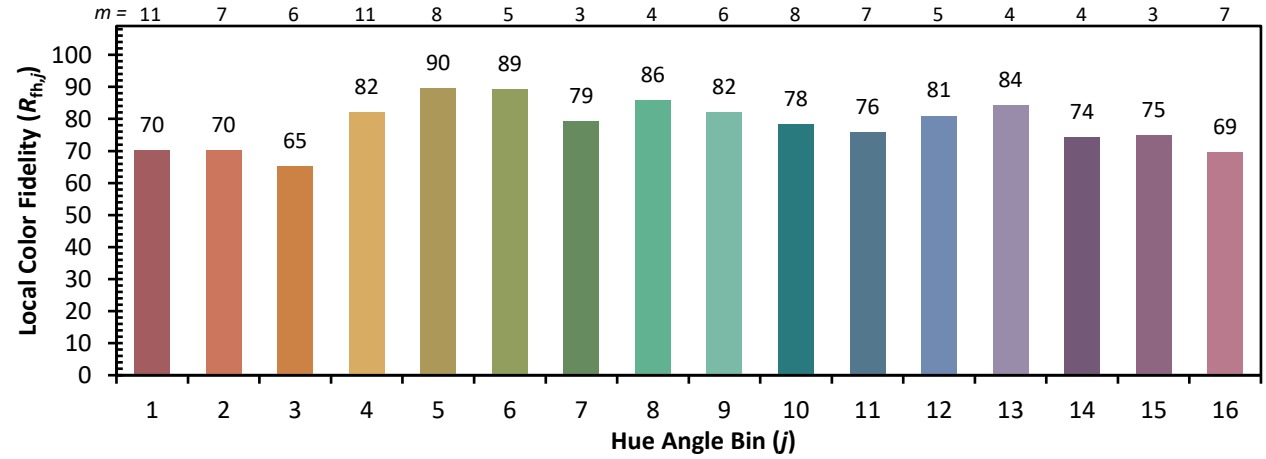
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## Color Rendition by Hue-Angle Bin



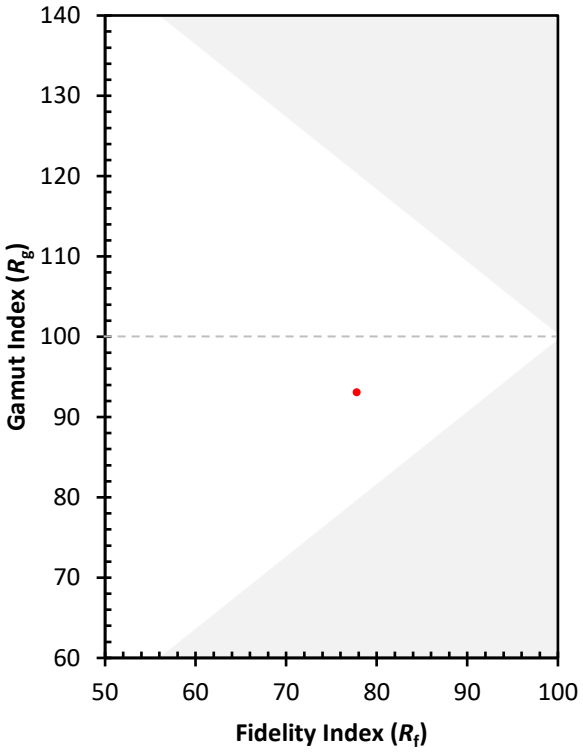



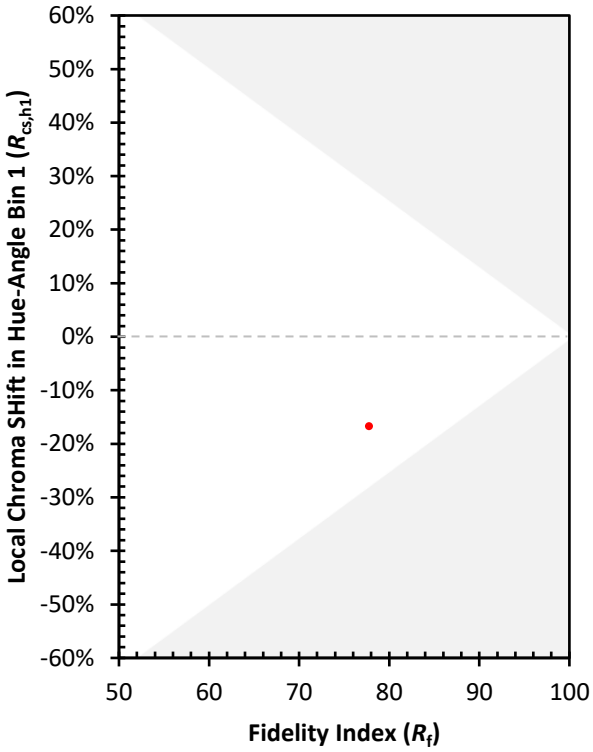



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## Measure Comparisons




(END OF REPORT)