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: P1046367

Luminaire Tested: **FFX-CLB-50-722-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: | P1046367 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-50-722-U-FR-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION |
| Light Source: | (4) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6678.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 132.0 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U5 - G3 |

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

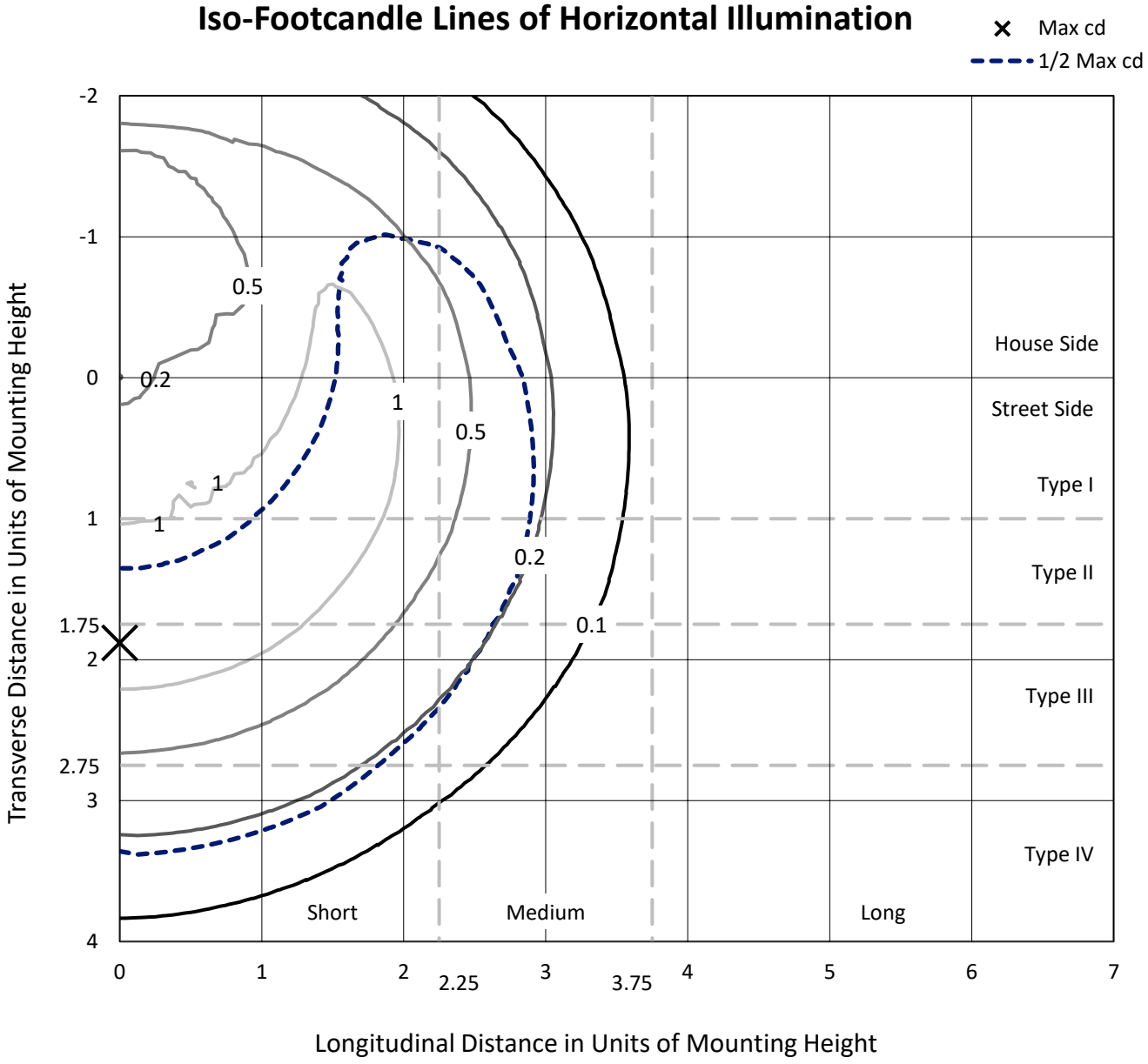


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REPORT NUMBER: P1046367
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## Iso-Footcandle Lines of Horizontal Illumination



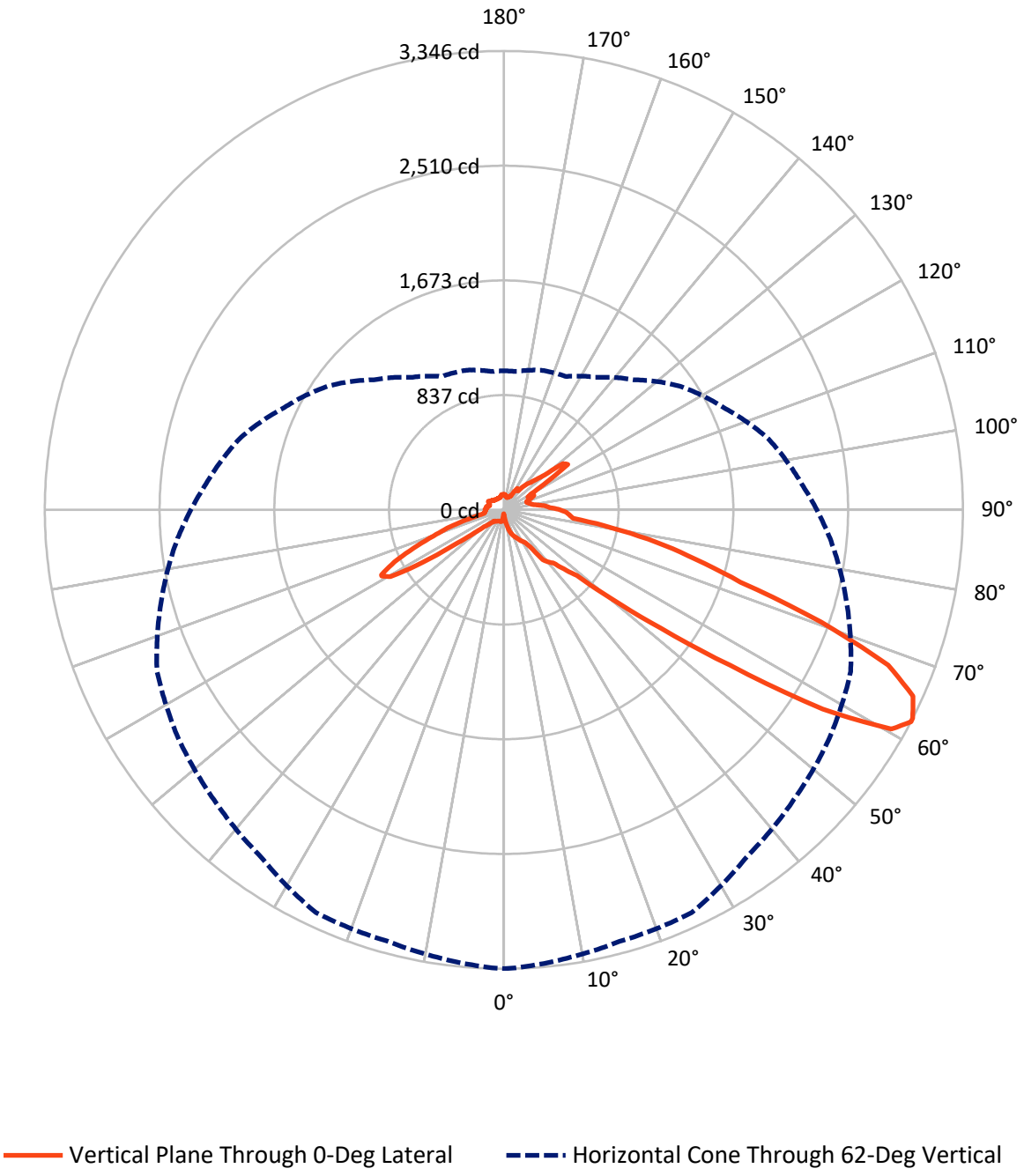

Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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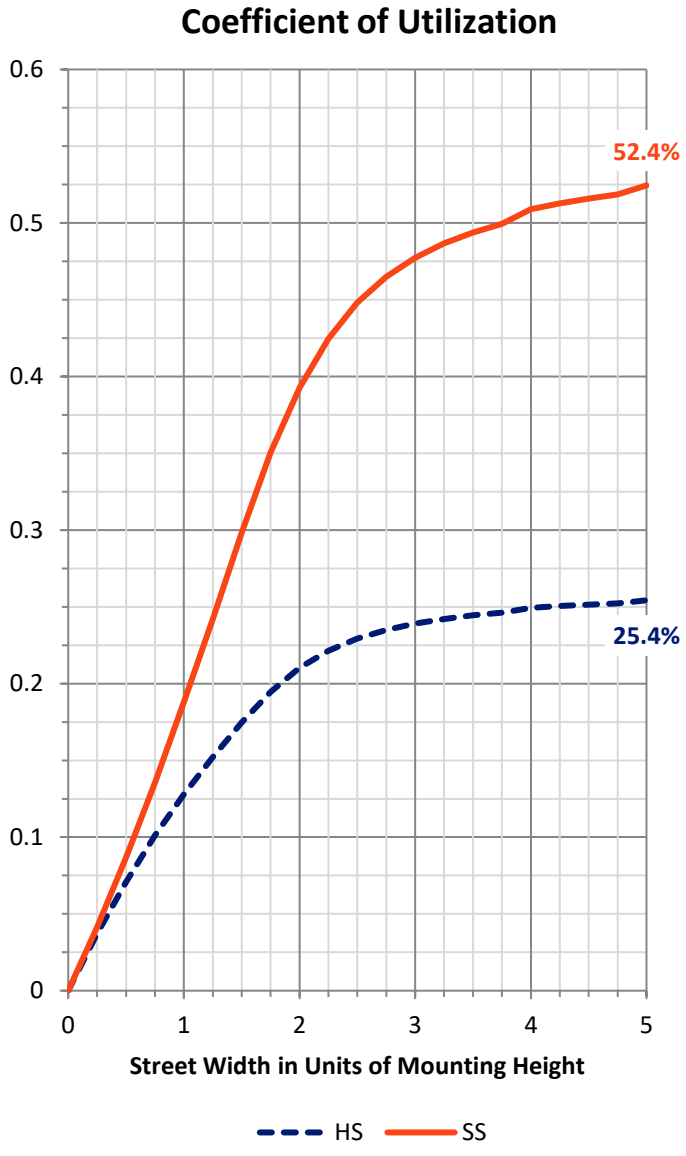
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1757.2 | 502.1 | 2259.2 |
| | % Fixture | 26.3 | 7.5 | 33.8 |
| **Street Side** | Lumens | 3648.0 | 771.2 | 4419.1 |
| | % Fixture | 54.6 | 11.5 | 66.2 |
| **Total** | Lumens | 5405.1 | 1273.2 | 6678.3 |
| | % Fixture | 80.9 | 19.1 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 6.7 | 0.1 |
| 10°-20° | 37.1 | 0.6 |
| 20°-30° | 80.2 | 1.2 |
| 30°-40° | 160.6 | 2.4 |
| 40°-50° | 351.7 | 5.3 |
| 50°-60° | 1231.6 | 18.4 |
| 60°-70° | 2061.1 | 30.9 |
| 70°-80° | 1069.8 | 16.0 |
| 80°-90° | 406.3 | 6.1 |
| 90°-100° | 259.1 | 3.9 |
| 100°-110° | 171.7 | 2.6 |
| 110°-120° | 179.4 | 2.7 |
| 120°-130° | 299.7 | 4.5 |
| 130°-140° | 180.4 | 2.7 |
| 140°-150° | 95.4 | 1.4 |
| 150°-160° | 50.2 | 0.8 |
| 160°-170° | 27.2 | 0.4 |
| 170°-180° | 10.2 | 0.2 |
| 0°-90° | 5405.1 | 80.9 |
| 0°-180° | 6678.3 | 100.0 |



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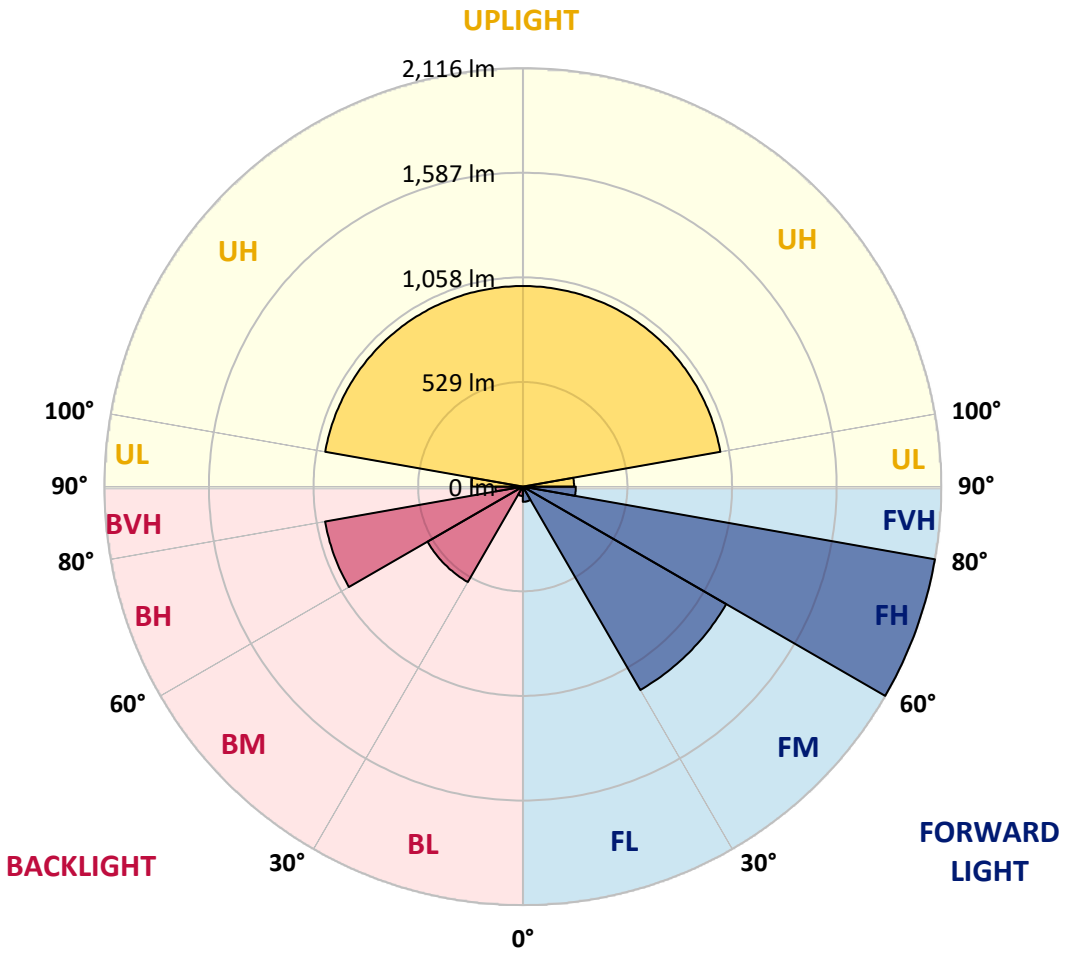
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 76.9 | 1.2 | | | |
| FM | (30°-60°) | 1187.3 | 17.8 | | | |
| FH | (60°-80°) | 2115.7 | 31.7 | | | G2/5000 |
| FVH | (80°-90°) | 268.0 | 4.0 | | | G3/500 |
| BL | (0°-30°) | 47.1 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 556.6 | 8.3 | B1/1000 | | |
| BH | (60°-80°) | 1015.2 | 15.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 138.3 | 2.1 | | | G2/225 |
| UL | (90°-100°) | 259.1 | 3.9 | | U3/500 | |
| UH | (100°-180°) | 1014.1 | 15.2 | | U5 | |

**BUG Rating: B3-U5-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | *41.6* | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 |
| 2.5° | *42.1* | 41.2 | 41.2 | 42.9 | 45.0 | 45.0 | 45.5 | 44.2 | 44.2 | 43.8 | 44.2 |
| 5° | *61.2* | 59.5 | 60.3 | 60.8 | 61.6 | 62.5 | 63.3 | 63.3 | 61.6 | 60.3 | 56.9 |
| 7.5° | *85.4* | 85.0 | 85.8 | 85.4 | 84.5 | 86.7 | 87.9 | 90.9 | 91.8 | 86.2 | 79.4 |
| 10° | *110.0* | 108.8 | 108.3 | 108.8 | 109.2 | 107.9 | 110.5 | 112.6 | 109.6 | 103.2 | 97.3 |
| 12.5° | *136.8* | 136.8 | 136.8 | 136.4 | 136.4 | 135.9 | 135.1 | 134.7 | 131.7 | 124.5 | 115.1 |
| 15° | *166.5* | 167.0 | 167.8 | 167.4 | 165.3 | 161.9 | 159.3 | 157.2 | 155.5 | 150.4 | 138.5 |
| 17.5° | *184.8* | 184.0 | 184.8 | 184.4 | 183.5 | 181.4 | 176.7 | 172.5 | 167.0 | 159.7 | 150.8 |
| 20° | *201.8* | 201.4 | 200.9 | 200.9 | 200.1 | 197.5 | 194.6 | 187.8 | 180.6 | 172.9 | 162.7 |
| 22.5° | *215.0* | 214.1 | 215.0 | 214.5 | 214.1 | 213.3 | 208.2 | 202.2 | 194.1 | 185.7 | 175.0 |
| 25° | *232.0* | 231.5 | 232.0 | 230.7 | 230.7 | 229.4 | 226.4 | 218.8 | 209.9 | 200.5 | 187.4 |
| 27.5° | *250.7* | 249.4 | 250.7 | 250.2 | 248.5 | 245.1 | 242.6 | 234.1 | 223.0 | 214.1 | 202.2 |
| 30° | *266.4* | 266.4 | 267.2 | 264.7 | 266.4 | 263.4 | 257.4 | 248.1 | 238.8 | 227.3 | 215.0 |
| 32.5° | *282.9* | 282.9 | 282.1 | 281.7 | 283.8 | 280.0 | 273.2 | 262.1 | 254.5 | 242.6 | 232.0 |
| 35° | *329.2* | 325.8 | 331.4 | 330.9 | 341.6 | 333.9 | 321.2 | 306.3 | 294.4 | 279.1 | 265.1 |
| 37.5° | *462.2* | 460.5 | 458.0 | 441.8 | 423.1 | 426.1 | 428.2 | 411.7 | 396.8 | 369.2 | 336.5 |
| 40° | *500.0* | 499.6 | 499.2 | 489.8 | 494.9 | 481.3 | 474.5 | 466.0 | 463.5 | 427.4 | 383.6 |
| 42.5° | *531.0* | 525.9 | 531.0 | 548.0 | 574.8 | 565.5 | 531.0 | 486.9 | 478.8 | 444.4 | 426.5 |
| 45° | *615.2* | 611.8 | 620.3 | 625.4 | 616.9 | 601.6 | 611.3 | 579.0 | 557.0 | 508.1 | 475.4 |
| 47.5° | *715.8* | 712.4 | 720.5 | 724.8 | 742.2 | 726.0 | 718.4 | 690.8 | 653.8 | 607.5 | 565.0 |
| 50° | *1016.2* | 978.0 | 1009.0 | 998.4 | 1002.6 | 966.5 | 980.9 | 941.4 | 908.3 | 832.2 | 755.4 |
| 52.5° | *1434.7* | 1421.9 | 1400.7 | 1376.9 | 1395.2 | 1356.5 | 1368.4 | 1325.5 | 1265.6 | 1177.2 | 1063.8 |
| 55° | *2001.0* | 1958.1 | 1971.7 | 2020.5 | 2010.3 | 1941.1 | 1929.2 | 1824.7 | 1717.2 | 1585.1 | 1465.7 |
| 57.5° | *2741.9* | 2720.6 | 2696.0 | 2663.3 | 2631.4 | 2559.6 | 2524.4 | 2407.5 | 2240.6 | 2056.2 | 1890.1 |
| 60° | *3246.2* | 3229.2 | 3218.1 | 3118.3 | 3059.7 | 2915.2 | 2882.5 | 2801.4 | 2652.7 | 2452.1 | 2223.2 |
| 62° | *3346.4* | *3343.9* | *3321.4* | *3259.3* | *3241.9* | *3089.0* | *2989.6* | *2899.1* | *2789.9* | *2586.4* | *2387.1* |
| 62.5° | *3345.6* | 3340.5 | 3327.3 | 3275.5 | 3257.6 | 3114.5 | 3006.6 | 2910.5 | 2801.8 | 2602.1 | 2406.3 |
| 65° | *3277.6* | 3266.1 | 3260.2 | 3229.2 | 3221.1 | 3137.0 | 2993.8 | 2894.8 | 2803.5 | 2583.4 | 2420.3 |
| 67.5° | *3021.8* | 3035.4 | 3036.3 | 3005.3 | 2978.5 | 2928.4 | 2791.6 | 2705.8 | 2642.9 | 2413.5 | 2259.7 |
| 70° | *2453.0* | 2434.7 | 2416.0 | 2430.5 | 2418.6 | 2391.4 | 2282.6 | 2174.7 | 2096.1 | 1975.9 | 1830.2 |
| 72.5° | *1803.0* | 1831.9 | 1831.5 | 1835.7 | 1837.8 | 1769.4 | 1721.0 | 1659.0 | 1616.5 | 1512.4 | 1408.3 |
| 75° | *1445.3* | 1447.8 | 1439.8 | 1410.0 | 1378.2 | 1338.7 | 1347.1 | 1341.6 | 1321.2 | 1211.2 | 1108.0 |
| 77.5° | *1141.1* | 1113.1 | 1124.5 | 1077.8 | 1036.6 | 1036.2 | 1052.7 | 1068.9 | 1077.8 | 989.4 | 909.6 |
| 80° | *803.4* | 797.0 | 786.8 | 791.0 | 757.1 | 766.0 | 774.0 | 785.1 | 767.7 | 715.4 | 678.5 |
| 82.5° | *507.3* | 501.7 | 493.7 | 532.7 | 565.5 | 558.2 | 532.3 | 490.7 | 480.9 | 484.7 | 476.2 |
| 85° | *479.6* | 479.2 | 472.0 | 468.2 | 463.1 | 451.6 | 458.0 | 466.9 | 461.8 | 432.9 | 395.5 |
| 87.5° | *452.9* | 451.6 | 446.1 | 444.0 | 434.2 | 432.9 | 438.9 | 442.3 | 444.4 | 418.5 | 387.0 |
| 90° | *396.8* | 391.7 | 386.6 | 390.8 | 389.6 | 390.4 | 392.1 | 391.3 | 392.1 | 361.5 | 348.4 |
| 92.5° | *330.9* | 329.7 | 325.8 | 328.0 | 330.9 | 342.8 | 337.7 | 329.7 | 328.4 | 316.1 | 303.3 |
| 95° | *302.1* | 302.9 | 298.2 | 301.2 | 302.1 | 302.1 | 298.7 | 294.8 | 291.9 | 282.1 | 270.6 |
| 97.5° | *250.2* | 246.4 | 244.7 | 246.8 | 247.7 | 244.7 | 242.6 | 236.2 | 235.8 | 226.0 | 220.5 |
| 100° | *212.8* | 212.0 | 211.1 | 213.7 | 214.5 | 213.3 | 213.7 | 209.9 | 209.4 | 203.9 | 198.0 |
| 102.5° | *198.8* | 198.4 | 198.0 | 200.1 | 200.9 | 200.1 | 198.8 | 195.0 | 195.8 | 189.9 | 185.7 |
| 105° | *187.8* | 187.8 | 187.4 | 188.6 | 186.1 | 184.8 | 183.1 | 183.1 | 184.0 | 179.3 | 172.9 |
| 107.5° | *175.5* | 175.0 | 175.5 | 175.0 | 172.1 | 170.8 | 170.4 | 169.1 | 172.1 | 169.5 | 162.7 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | *177.6* | 177.6 | 177.2 | 172.5 | 170.8 | 168.7 | 167.8 | 169.9 | 169.1 | 164.8 | 160.6 |
| 112.5° | *217.5* | 215.0 | 216.7 | 210.3 | 207.3 | 209.0 | 209.9 | 211.6 | 215.0 | 208.2 | 201.8 |
| 115° | *243.0* | 243.4 | 247.7 | 247.7 | 241.3 | 244.3 | 244.3 | 243.9 | 247.3 | 242.2 | 235.8 |
| 117.5° | *198.4* | 200.9 | 214.5 | 206.0 | 208.2 | 209.9 | 199.2 | 195.4 | 194.6 | 195.8 | 209.4 |
| 120° | *228.6* | 225.2 | 237.9 | 211.1 | 203.1 | 203.1 | 210.7 | 220.5 | 209.9 | 193.7 | 198.0 |
| 122.5° | *373.9* | 374.3 | 374.7 | 386.2 | 384.9 | 388.3 | 382.4 | 374.7 | 352.6 | 353.0 | 333.1 |
| 125° | *572.3* | 566.7 | 566.7 | 561.6 | 560.8 | 552.7 | 562.9 | 569.3 | 552.3 | 523.4 | 492.0 |
| 127.5° | *547.6* | 559.5 | 555.3 | 542.5 | 530.2 | 525.9 | 537.8 | 557.8 | 548.0 | 522.5 | 493.7 |
| 130° | *388.7* | 391.7 | 390.8 | 404.4 | 407.8 | 403.6 | 407.8 | 393.4 | 395.5 | 401.5 | 386.2 |
| 132.5° | *325.8* | 324.1 | 330.1 | 348.8 | 356.0 | 347.5 | 335.6 | 325.0 | 325.4 | 338.2 | 337.3 |
| 135° | *280.8* | 279.5 | 283.8 | 284.6 | 292.7 | 285.9 | 275.3 | 275.3 | 277.8 | 280.8 | 279.5 |
| 137.5° | *253.6* | 251.9 | 253.2 | 243.4 | 233.7 | 233.2 | 241.7 | 246.4 | 243.9 | 240.9 | 237.5 |
| 140° | *218.4* | 219.2 | 217.1 | 209.0 | 204.8 | 205.6 | 211.1 | 218.4 | 216.2 | 209.9 | 204.8 |
| 142.5° | *173.8* | 172.1 | 174.6 | 180.6 | 189.1 | 189.1 | 180.6 | 171.6 | 171.2 | 174.2 | 178.4 |
| 145° | *171.2* | 170.4 | 170.8 | 169.5 | 171.2 | 169.5 | 167.0 | 164.4 | 161.4 | 159.3 | 157.6 |
| 147.5° | *185.7* | 185.7 | 185.2 | 183.1 | 181.4 | 178.4 | 179.3 | 182.3 | 184.0 | 182.3 | 179.7 |
| 150° | *150.8* | 152.1 | 152.1 | 151.7 | 150.0 | 151.2 | 152.9 | 153.8 | 155.5 | 155.5 | 152.9 |
| 152.5° | *116.0* | 115.6 | 116.8 | 115.1 | 114.7 | 115.6 | 117.7 | 119.4 | 119.8 | 119.8 | 116.4 |
| 155° | *110.5* | 109.6 | 110.5 | 109.6 | 108.8 | 109.6 | 111.3 | 112.2 | 113.0 | 111.7 | 108.3 |
| 157.5° | *103.2* | 103.2 | 103.2 | 102.4 | 102.8 | 102.8 | 103.7 | 104.1 | 104.5 | 104.1 | 103.2 |
| 160° | *97.7* | 97.7 | 98.1 | 97.7 | 97.7 | 98.6 | 98.1 | 97.7 | 97.7 | 97.3 | 96.9 |
| 162.5° | *94.3* | 94.3 | 94.3 | 94.3 | 93.9 | 93.9 | 94.3 | 93.9 | 93.5 | 93.0 | 93.9 |
| 165° | *92.6* | 92.2 | 92.2 | 92.2 | 92.6 | 92.2 | 92.2 | 92.2 | 91.8 | 93.0 | 94.7 |
| 167.5° | *96.0* | 95.2 | 95.6 | 96.0 | 96.0 | 95.6 | 95.6 | 95.6 | 96.4 | 97.7 | 99.0 |
| 170° | *100.7* | 100.3 | 100.3 | 100.7 | 100.7 | 100.3 | 100.3 | 100.3 | 100.7 | 101.1 | 101.5 |
| 172.5° | *104.5* | 104.1 | 104.1 | 104.1 | 103.7 | 103.2 | 103.2 | 103.2 | 103.2 | 103.2 | 103.7 |
| 175° | *108.3* | 108.3 | 108.3 | 108.3 | 107.9 | 107.5 | 107.5 | 107.5 | 107.5 | 107.5 | 107.5 |
| 177.5° | *112.6* | 112.2 | 112.6 | 112.2 | 112.2 | 112.2 | 111.7 | 111.3 | 110.9 | 110.9 | 110.9 |
| 180° | *111.7* | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 |
| 2.5° | 43.3 | 42.9 | 40.4 | 38.2 | 36.5 | 34.8 | 32.3 | 30.2 | 28.5 | 28.0 | 28.0 |
| 5° | 56.1 | 55.2 | 52.7 | 49.3 | 47.6 | 45.0 | 42.5 | 40.8 | 38.7 | 37.8 | 38.2 |
| 7.5° | 77.3 | 77.7 | 78.6 | 80.3 | 79.4 | 72.2 | 64.1 | 62.5 | 64.1 | 66.7 | 68.0 |
| 10° | 96.0 | 94.7 | 94.3 | 99.8 | 98.6 | 87.9 | 77.3 | 73.9 | 76.9 | 82.4 | 85.0 |
| 12.5° | 111.3 | 108.8 | 108.3 | 109.2 | 104.1 | 92.6 | 83.7 | 79.9 | 81.6 | 85.8 | 85.4 |
| 15° | 133.8 | 130.0 | 124.5 | 121.1 | 114.7 | 106.6 | 95.6 | 89.2 | 89.2 | 89.2 | 88.8 |
| 17.5° | 147.0 | 142.7 | 132.1 | 122.4 | 114.3 | 108.3 | 101.1 | 95.2 | 88.8 | 87.9 | 87.5 |
| 20° | 158.5 | 152.1 | 140.6 | 130.0 | 119.8 | 111.3 | 101.1 | 93.9 | 88.4 | 87.5 | 87.1 |
| 22.5° | 168.2 | 162.3 | 150.0 | 137.2 | 124.5 | 114.7 | 103.7 | 96.0 | 90.5 | 88.8 | 88.4 |
| 25° | 181.4 | 175.0 | 161.0 | 146.1 | 131.3 | 119.0 | 108.8 | 99.8 | 93.0 | 89.6 | 89.6 |
| 27.5° | 194.6 | 187.4 | 171.6 | 156.3 | 140.2 | 124.9 | 113.4 | 104.5 | 96.0 | 91.3 | 90.9 |
| 30° | 207.3 | 199.2 | 182.3 | 164.8 | 148.7 | 132.5 | 119.4 | 109.2 | 99.8 | 94.7 | 94.3 |
| 32.5° | 225.2 | 215.8 | 195.8 | 174.2 | 158.0 | 140.6 | 125.8 | 113.9 | 104.1 | 99.0 | 98.1 |
| 35° | 260.0 | 249.4 | 226.9 | 198.8 | 173.3 | 150.0 | 132.1 | 116.4 | 107.1 | 101.5 | 101.1 |
| 37.5° | 324.6 | 312.3 | 280.8 | 246.4 | 211.6 | 176.3 | 143.6 | 119.8 | 109.2 | 104.1 | 103.2 |
| 40° | 363.2 | 339.0 | 305.9 | 278.7 | 252.4 | 218.4 | 176.3 | 138.9 | 113.4 | 107.5 | 106.6 |
| 42.5° | 413.4 | 388.3 | 340.3 | 288.5 | 254.9 | 228.1 | 198.4 | 174.2 | 137.6 | 116.4 | 112.6 |
| 45° | 460.9 | 441.8 | 400.6 | 345.4 | 294.4 | 248.1 | 211.1 | 187.8 | 164.4 | 140.2 | 136.4 |
| 47.5° | 540.8 | 512.8 | 458.4 | 401.9 | 350.1 | 298.2 | 254.5 | 209.0 | 178.9 | 164.4 | 163.6 |
| 50° | 745.6 | 694.6 | 616.0 | 548.5 | 450.7 | 371.3 | 319.5 | 258.7 | 220.1 | 197.5 | 190.3 |
| 52.5° | 1010.3 | 957.2 | 867.5 | 769.8 | 661.5 | 559.1 | 457.5 | 370.5 | 307.6 | 268.1 | 269.3 |
| 55° | 1404.5 | 1351.4 | 1219.7 | 1052.3 | 903.6 | 797.0 | 688.2 | 582.4 | 481.3 | 423.1 | 415.9 |
| 57.5° | 1820.4 | 1772.8 | 1660.3 | 1455.9 | 1219.3 | 1022.2 | 893.0 | 818.2 | 766.4 | 703.1 | 703.1 |
| 60° | 2125.4 | 2046.4 | 1919.0 | 1712.9 | 1503.1 | 1243.9 | 1078.2 | 971.2 | 961.8 | 950.8 | 959.3 |
| 62° | *2281.4* | *2179.4* | *1997.6* | *1766.0* | *1571.0* | *1340.4* | *1179.3* | *1073.1* | *1054.4* | *1012.8* | *1013.7* |
| 62.5° | 2307.7 | 2195.1 | 2010.7 | 1766.0 | 1577.0 | 1348.8 | 1190.4 | 1086.7 | 1060.8 | 1009.8 | 1010.7 |
| 65° | 2334.0 | 2198.5 | 2020.5 | 1737.6 | 1543.4 | 1319.5 | 1197.6 | 1062.5 | 994.5 | 909.1 | 884.1 |
| 67.5° | 2182.8 | 2043.9 | 1891.4 | 1615.6 | 1413.8 | 1197.6 | 1062.5 | 927.0 | 816.1 | 729.4 | 715.8 |
| 70° | 1772.8 | 1663.6 | 1546.0 | 1335.3 | 1158.9 | 983.9 | 869.2 | 746.9 | 636.4 | 540.8 | 546.8 |
| 72.5° | 1345.4 | 1243.5 | 1135.6 | 1001.8 | 892.2 | 774.5 | 672.9 | 574.4 | 482.6 | 423.1 | 434.2 |
| 75° | 1042.1 | 974.1 | 897.7 | 800.4 | 717.1 | 608.4 | 492.8 | 405.3 | 343.3 | 307.2 | 309.3 |
| 77.5° | 856.9 | 786.4 | 723.9 | 634.7 | 555.7 | 444.4 | 333.1 | 258.3 | 222.2 | 206.0 | 201.8 |
| 80° | 658.9 | 607.5 | 552.3 | 472.4 | 385.3 | 299.5 | 223.9 | 189.1 | 165.3 | 153.4 | 148.7 |
| 82.5° | 460.1 | 428.2 | 381.9 | 324.1 | 274.0 | 242.6 | 209.9 | 180.6 | 155.9 | 144.9 | 139.8 |
| 85° | 379.0 | 362.0 | 336.5 | 303.8 | 274.0 | 239.2 | 202.6 | 172.9 | 151.7 | 143.2 | 138.5 |
| 87.5° | 369.2 | 357.7 | 328.8 | 294.0 | 258.3 | 222.6 | 185.7 | 158.0 | 144.4 | 138.9 | 134.7 |
| 90° | 338.6 | 325.4 | 305.0 | 270.6 | 238.8 | 200.5 | 170.4 | 153.8 | 143.6 | 137.2 | 132.5 |
| 92.5° | 295.3 | 288.0 | 269.3 | 244.7 | 222.6 | 198.0 | 176.3 | 161.4 | 150.8 | 143.2 | 138.5 |
| 95° | 262.5 | 254.1 | 243.4 | 223.5 | 205.2 | 185.2 | 165.3 | 151.2 | 140.2 | 132.1 | 128.3 |
| 97.5° | 215.8 | 209.9 | 199.7 | 186.5 | 172.9 | 156.8 | 142.7 | 133.4 | 126.2 | 122.4 | 119.8 |
| 100° | 195.8 | 192.0 | 186.1 | 176.7 | 165.7 | 154.2 | 144.0 | 138.9 | 135.9 | 133.4 | 132.1 |
| 102.5° | 181.4 | 177.2 | 172.5 | 162.7 | 154.2 | 144.0 | 137.2 | 133.0 | 129.1 | 124.9 | 124.1 |
| 105° | 168.7 | 165.3 | 158.9 | 150.8 | 142.3 | 132.5 | 124.5 | 121.9 | 118.5 | 114.7 | 114.3 |
| 107.5° | 158.9 | 155.5 | 150.0 | 141.5 | 133.8 | 125.3 | 118.1 | 114.3 | 110.5 | 108.3 | 107.9 |

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

Scaled Data Report

REPORT NUMBER: P1046367
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T4

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 158.0 | 155.5 | 149.5 | 142.3 | 136.4 | 127.9 | 119.8 | 118.5 | 114.3 | 109.2 | 108.8 |
| 112.5° | 197.1 | 189.1 | 177.6 | 165.7 | 155.5 | 147.0 | 136.8 | 126.6 | 118.1 | 113.0 | 112.2 |
| 115° | 228.6 | 220.5 | 206.5 | 189.1 | 172.9 | 154.6 | 137.2 | 124.5 | 119.8 | 118.5 | 120.2 |
| 117.5° | 215.0 | 198.0 | 174.2 | 163.6 | 149.5 | 139.8 | 133.0 | 130.0 | 122.4 | 124.5 | 126.6 |
| 120° | 206.5 | 195.0 | 174.2 | 172.5 | 166.1 | 155.1 | 139.3 | 135.9 | 131.7 | 128.3 | 127.9 |
| 122.5° | 331.8 | 320.7 | 297.0 | 260.8 | 221.8 | 195.4 | 185.7 | 165.3 | 140.6 | 121.9 | 119.0 |
| 125° | 470.3 | 452.4 | 405.7 | 365.8 | 314.0 | 258.3 | 208.2 | 165.3 | 131.7 | 113.9 | 111.7 |
| 127.5° | 479.6 | 459.7 | 418.9 | 364.9 | 299.1 | 231.1 | 179.3 | 148.3 | 125.8 | 113.9 | 111.7 |
| 130° | 373.9 | 361.1 | 330.9 | 280.4 | 234.9 | 194.6 | 165.3 | 140.2 | 119.8 | 110.9 | 109.6 |
| 132.5° | 330.5 | 319.1 | 276.1 | 234.1 | 203.9 | 172.9 | 148.3 | 124.5 | 107.1 | 101.1 | 100.3 |
| 135° | 273.2 | 260.4 | 232.0 | 206.0 | 184.0 | 158.9 | 134.2 | 113.9 | 101.5 | 98.6 | 98.1 |
| 137.5° | 233.2 | 227.3 | 206.0 | 187.8 | 167.8 | 146.1 | 125.8 | 110.0 | 102.4 | 99.8 | 99.4 |
| 140° | 201.4 | 200.1 | 186.9 | 170.8 | 150.8 | 127.9 | 112.2 | 102.8 | 99.8 | 98.6 | 98.1 |
| 142.5° | 178.0 | 176.3 | 161.9 | 143.2 | 125.3 | 113.4 | 107.5 | 104.5 | 102.0 | 98.6 | 97.7 |
| 145° | 154.2 | 151.2 | 142.3 | 134.2 | 128.7 | 124.9 | 119.4 | 110.0 | 100.3 | 95.2 | 94.7 |
| 147.5° | 175.5 | 170.4 | 160.6 | 149.1 | 137.2 | 124.9 | 113.4 | 103.7 | 95.6 | 92.6 | 92.2 |
| 150° | 147.4 | 147.0 | 140.6 | 131.7 | 122.8 | 111.7 | 103.2 | 96.9 | 93.5 | 93.0 | 93.0 |
| 152.5° | 114.3 | 114.3 | 114.3 | 112.2 | 107.9 | 102.0 | 95.6 | 91.8 | 91.8 | 93.5 | 93.9 |
| 155° | 107.5 | 107.9 | 108.3 | 107.5 | 104.1 | 98.6 | 93.0 | 91.3 | 91.8 | 93.5 | 93.9 |
| 157.5° | 102.4 | 102.4 | 102.8 | 102.0 | 100.3 | 96.4 | 92.6 | 90.9 | 91.3 | 92.2 | 92.6 |
| 160° | 96.4 | 96.4 | 96.9 | 96.9 | 95.2 | 93.9 | 92.2 | 90.9 | 90.9 | 91.3 | 91.8 |
| 162.5° | 94.3 | 94.3 | 94.3 | 94.3 | 93.9 | 93.9 | 93.9 | 93.9 | 93.5 | 93.5 | 93.5 |
| 165° | 95.2 | 95.2 | 93.9 | 93.5 | 94.3 | 95.6 | 97.7 | 98.1 | 96.0 | 95.6 | 95.6 |
| 167.5° | 99.4 | 99.4 | 98.1 | 97.3 | 98.6 | 99.8 | 102.8 | 103.7 | 102.0 | 100.3 | 100.3 |
| 170° | 102.0 | 102.0 | 102.0 | 102.4 | 102.8 | 104.1 | 105.8 | 106.6 | 106.2 | 105.8 | 105.8 |
| 172.5° | 103.7 | 103.7 | 104.5 | 105.4 | 106.6 | 107.5 | 108.3 | 109.2 | 110.0 | 110.0 | 110.5 |
| 175° | 107.1 | 107.5 | 108.3 | 108.8 | 109.6 | 110.5 | 111.3 | 112.2 | 112.6 | 112.6 | 112.6 |
| 177.5° | 110.5 | 110.5 | 110.5 | 110.9 | 111.3 | 111.7 | 112.2 | 112.6 | 112.6 | 113.0 | 113.4 |
| 180° | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 | 111.7 |

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

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

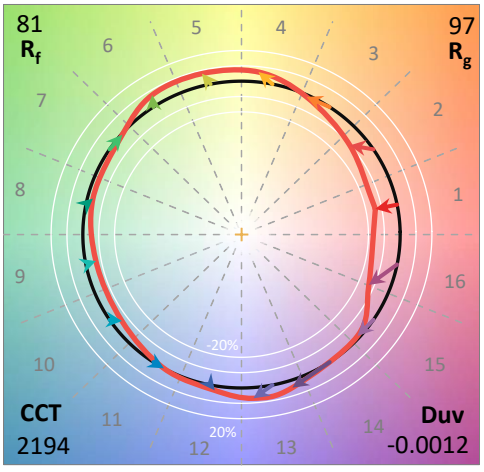
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-7 |
| 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-20-722-U-FR-T5-UPLR-P-HSS** |
| Description: | FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2194 | CRI (Ra): | 76.9 | | |
| CIE u': | 0.2907 | R1: | 75.7 | R9: | -13.4 |
| CIE v': | 0.5343 | R2: | 91.6 | R10: | 84.3 |
| Duv: | -0.0012 | R3: | 88.2 | R11: | 74.6 |
| CIE x: | 0.5035 | R4: | 73.5 | R12: | 85.6 |
| CIE y: | 0.4113 | R5: | 77.0 | R13: | 79.4 |
| CIE z: | 0.0852 | R6: | 93.6 | R14: | 93.9 |
| Peak Wavelength (nm): | 608 | R7: | 73.2 | R15: | 65.4 |
| Dominant Wavelength (nm): | 587 | R8: | 42.7 | | |
| Purity: | 74.59755 | | | | |

| | |
|---|---|
| Rf: | 81 |
| Rg: | 96.6 |




## Test Conditions

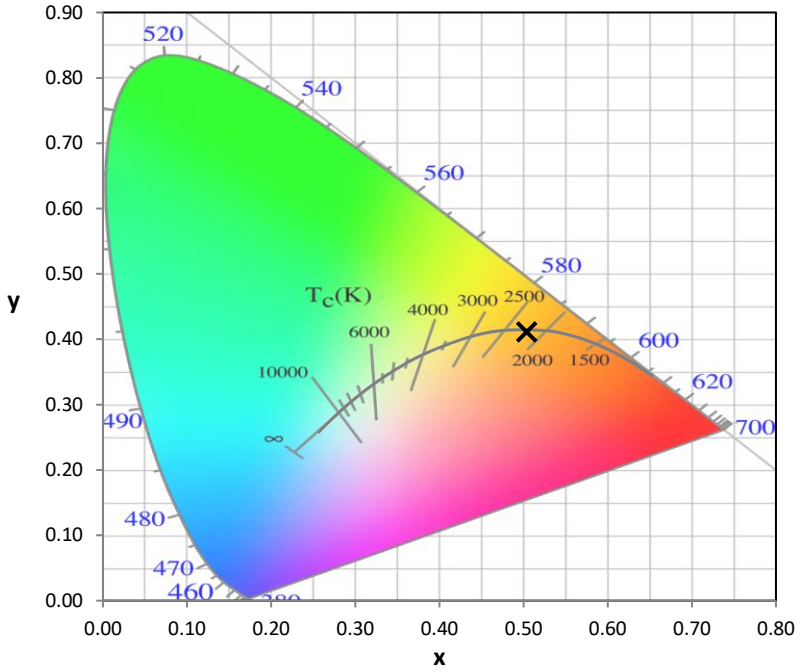
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-7

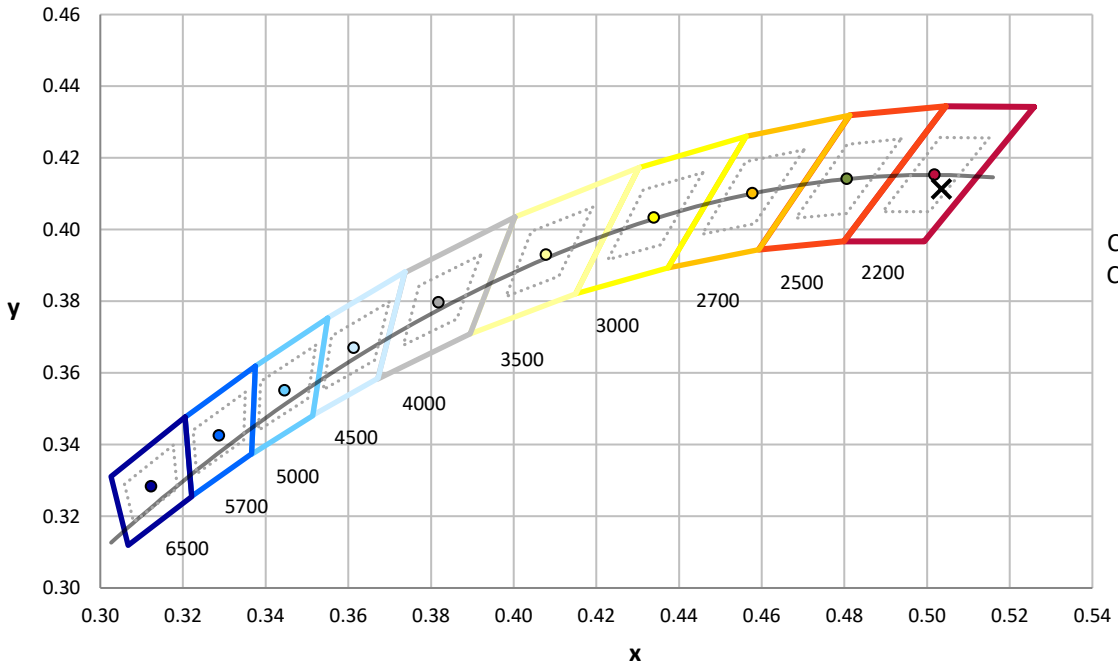
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-7

## CIE 1931 Chromaticity Diagram




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

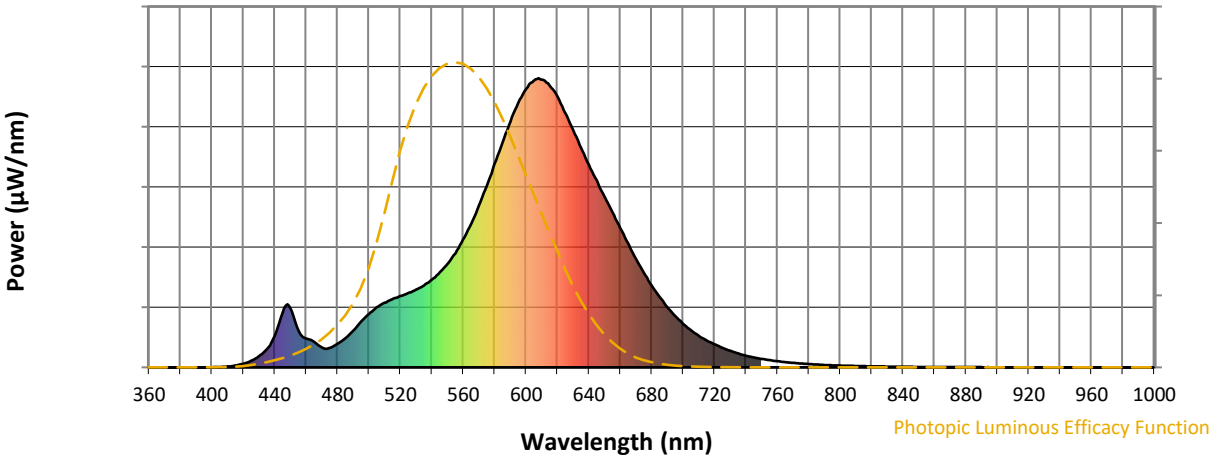



CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

## Photopic Flux vs. Wavelength

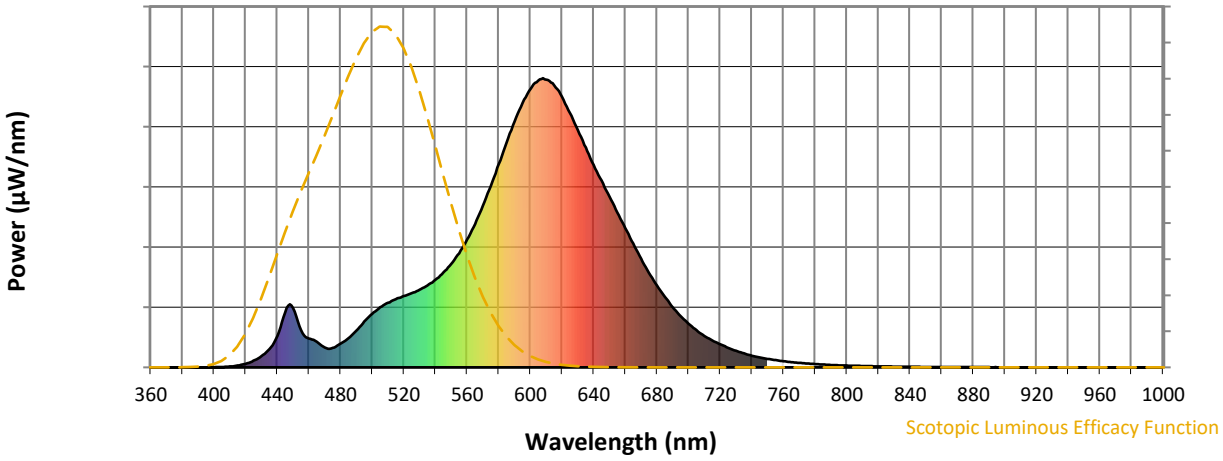



## Photopic Lumens: NR

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Scotopic Flux vs. Wavelength

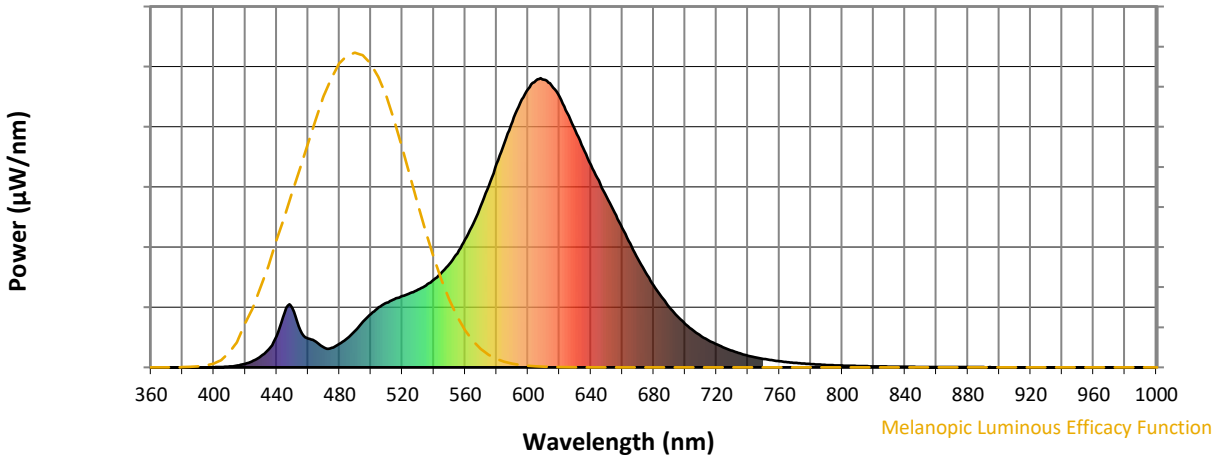



**Scotopic Lumens: NR** **S/P: 0.96**

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.7**

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

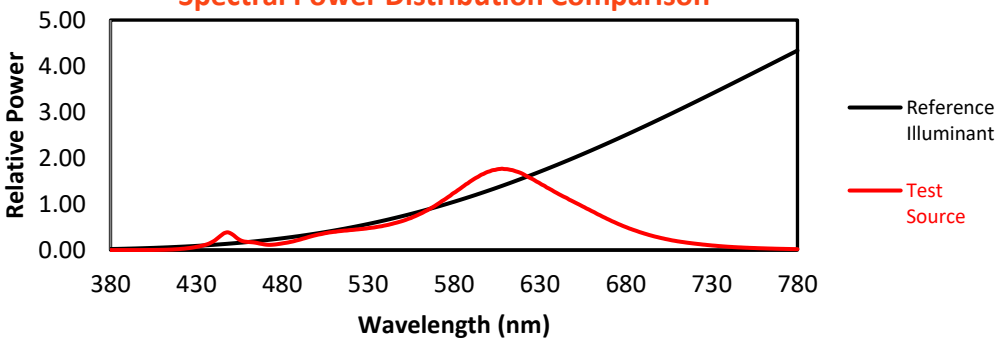
REPORT NUMBER: SP1-2501-332-7

# TM-30-18

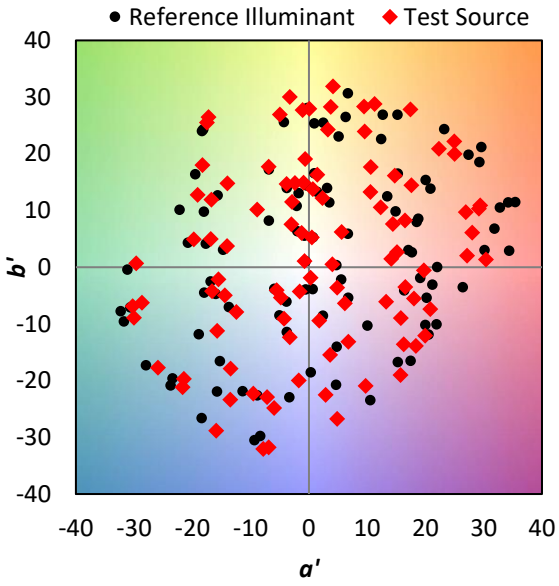
## Summary

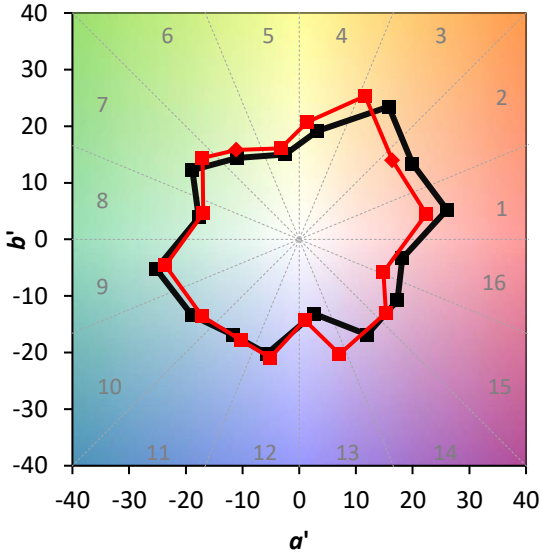
$R_f$ = 81
$R_g$ = 96.6
CIE $R_a$ = 76.9
$R_9$ = -13.4

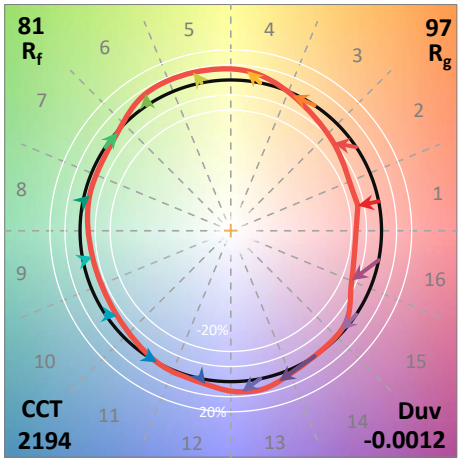
## Spectral Power Distribution Comparison

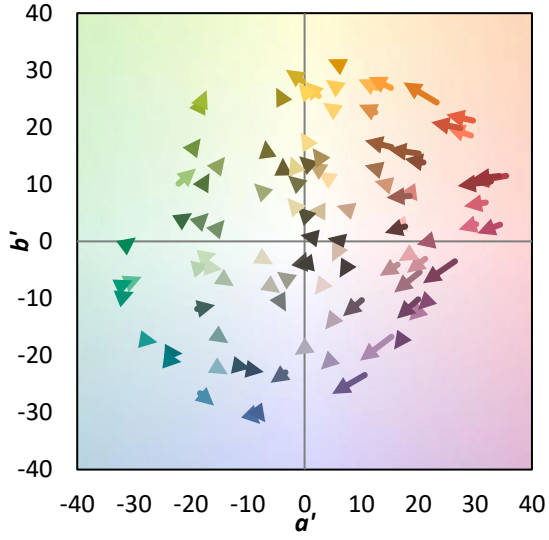



## Color Vector Graphics



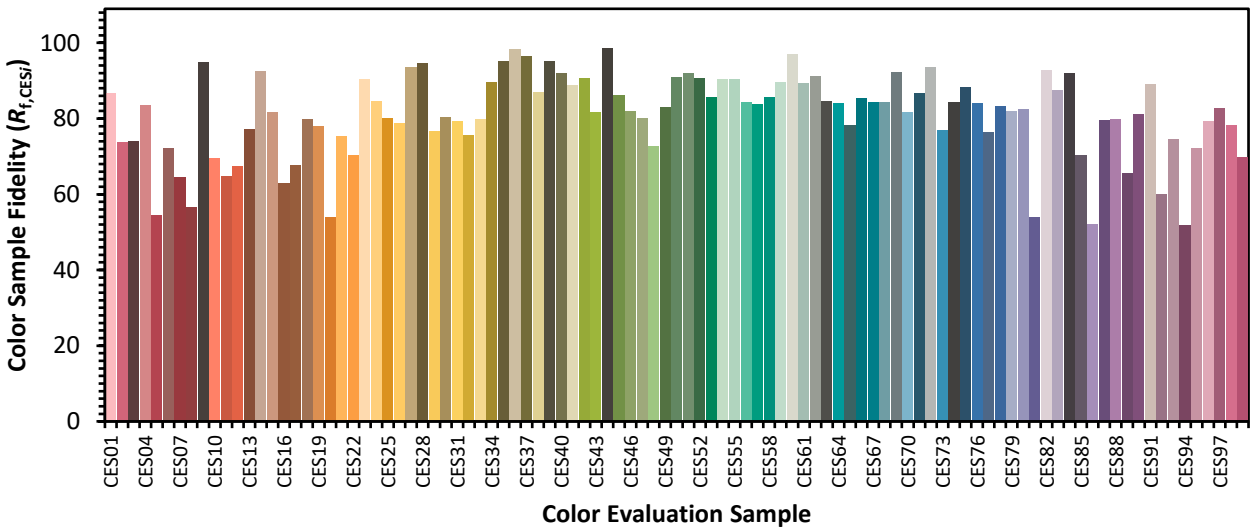



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**Individual Sample Fidelity Index ($R_{f,i}$)**

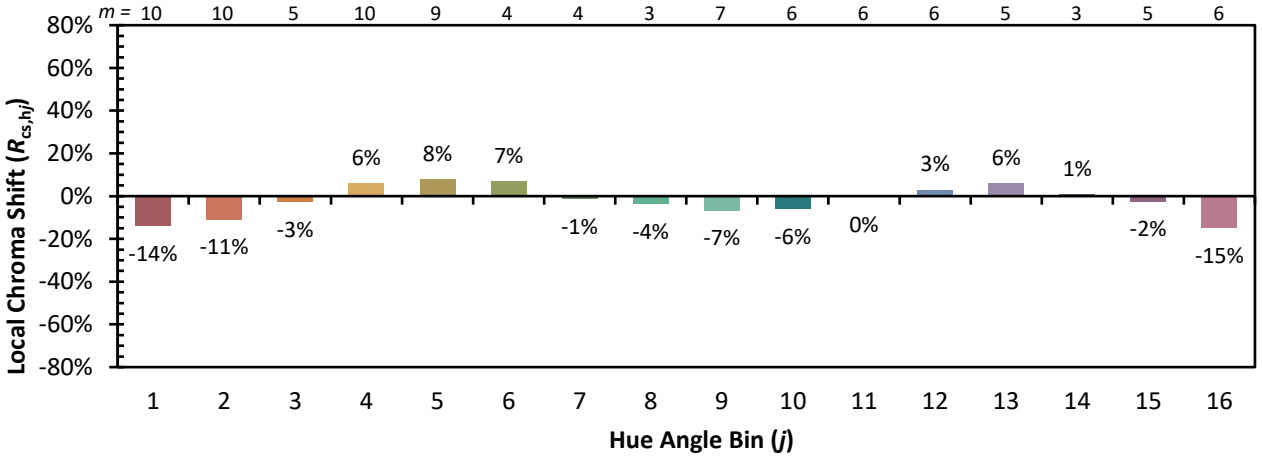
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 79 | CES51 = 92 | CES76 = 84 |
| CES02 = 65 | CES27 = 94 | CES52 = 91 | CES77 = 76 |
| CES03 = 32 | CES28 = 95 | CES53 = 86 | CES78 = 83 |
| CES04 = 72 | CES29 = 77 | CES54 = 90 | CES79 = 82 |
| CES05 = 52 | CES30 = 80 | CES55 = 90 | CES80 = 82 |
| CES06 = 52 | CES31 = 79 | CES56 = 84 | CES81 = 54 |
| CES07 = 44 | CES32 = 76 | CES57 = 84 | CES82 = 93 |
| CES08 = 43 | CES33 = 80 | CES58 = 86 | CES83 = 88 |
| CES09 = 29 | CES34 = 90 | CES59 = 90 | CES84 = 92 |
| CES10 = 79 | CES35 = 95 | CES60 = 97 | CES85 = 70 |
| CES11 = 62 | CES36 = 98 | CES61 = 89 | CES86 = 52 |
| CES12 = 68 | CES37 = 96 | CES62 = 91 | CES87 = 80 |
| CES13 = 45 | CES38 = 87 | CES63 = 85 | CES88 = 80 |
| CES14 = 75 | CES39 = 95 | CES64 = 84 | CES89 = 66 |
| CES15 = 73 | CES40 = 92 | CES65 = 78 | CES90 = 81 |
| CES16 = 49 | CES41 = 89 | CES66 = 85 | CES91 = 89 |
| CES17 = 51 | CES42 = 91 | CES67 = 84 | CES92 = 60 |
| CES18 = 57 | CES43 = 82 | CES68 = 84 | CES93 = 74 |
| CES19 = 74 | CES44 = 99 | CES69 = 92 | CES94 = 52 |
| CES20 = 69 | CES45 = 86 | CES70 = 82 | CES95 = 72 |
| CES21 = 88 | CES46 = 82 | CES71 = 87 | CES96 = 79 |
| CES22 = 81 | CES47 = 80 | CES72 = 94 | CES97 = 83 |
| CES23 = 92 | CES48 = 73 | CES73 = 77 | CES98 = 78 |
| CES24 = 92 | CES49 = 83 | CES74 = 84 | CES99 = 70 |
| CES25 = 73 | CES50 = 91 | CES75 = 88 | |

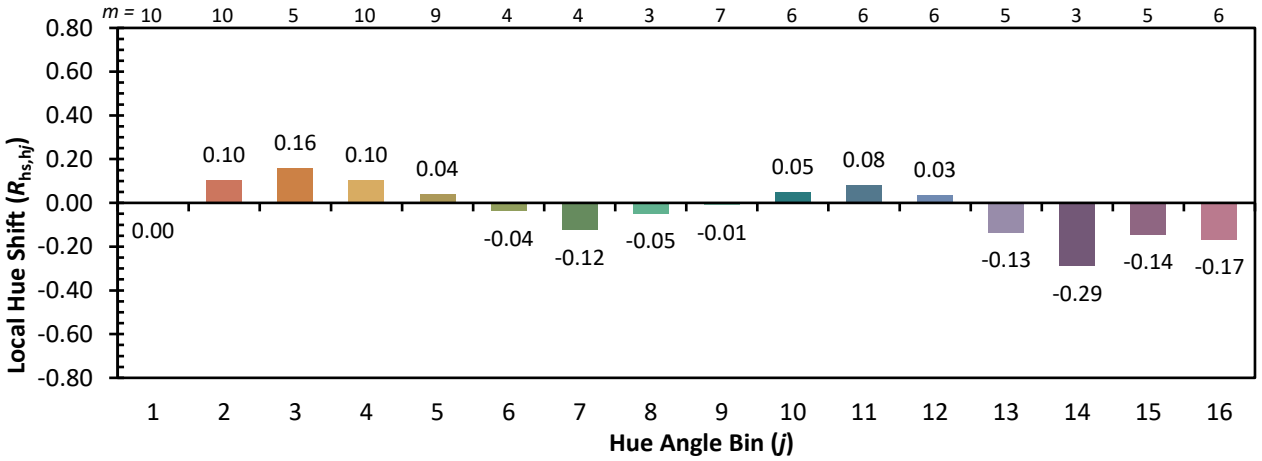


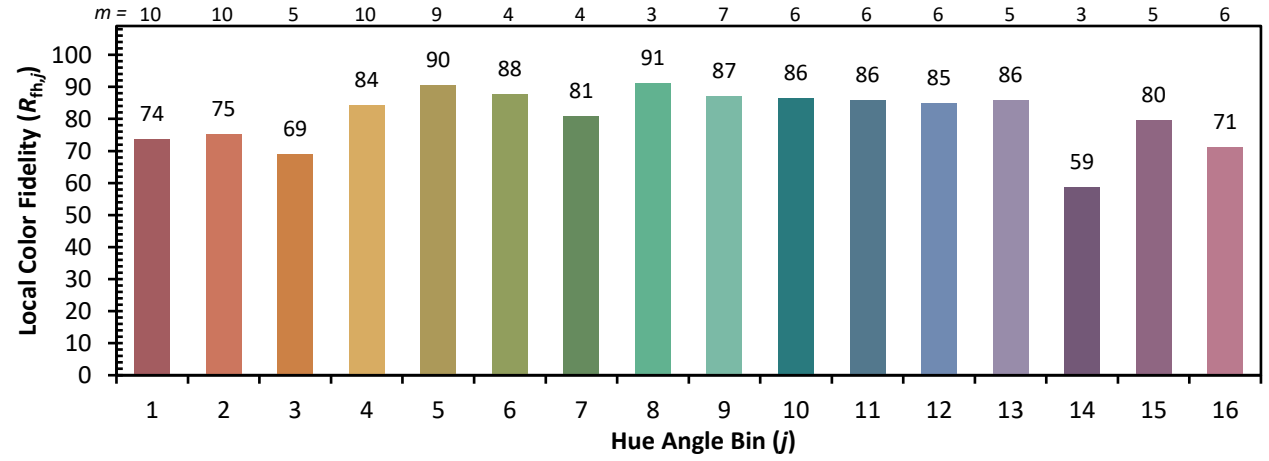
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## Color Rendition by Hue-Angle Bin



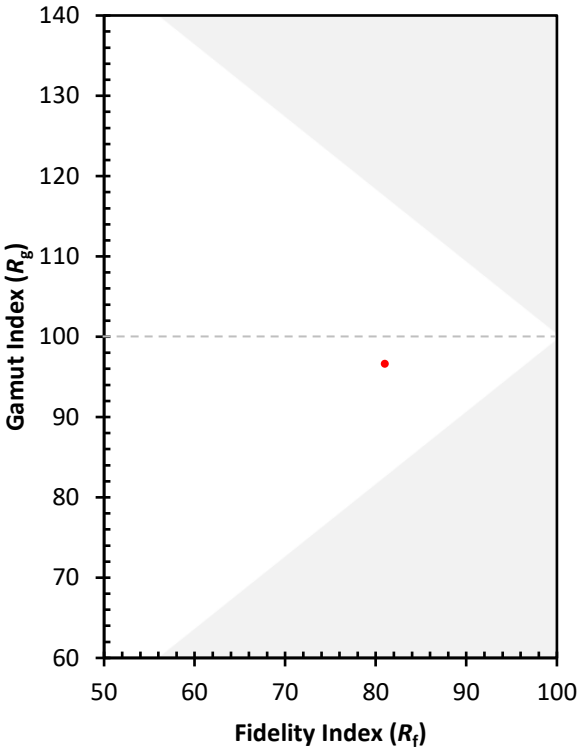



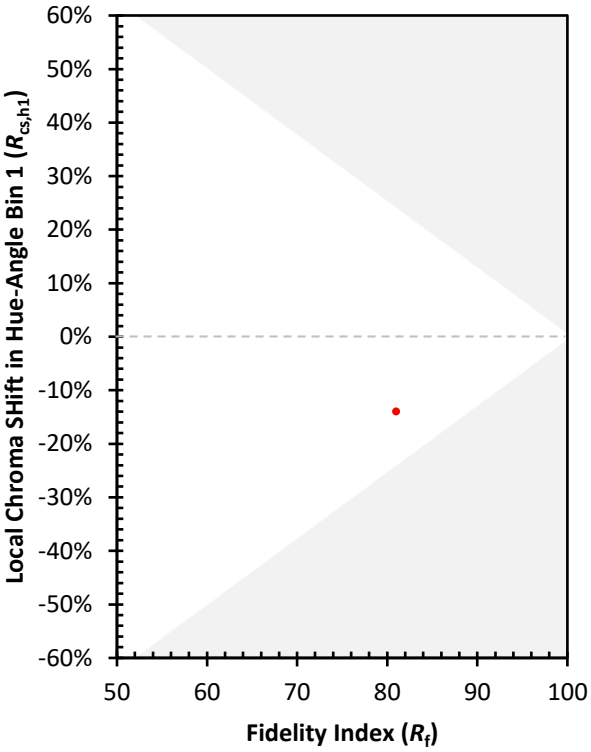



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### Measure Comparisons




(END OF REPORT)