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: P1046216

Luminaire Tested: **FFX-CLB-30-740-U-FR-T4-HSS**

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: | P1046216 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-30-740-U-FR-T4-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND HOUSESIDE SHIELD |
| Light Source: | (4) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4703.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 153.7 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U4 - G2 |

| | |
|---|---|
| Input Watts (W): | 30.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 10.8% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

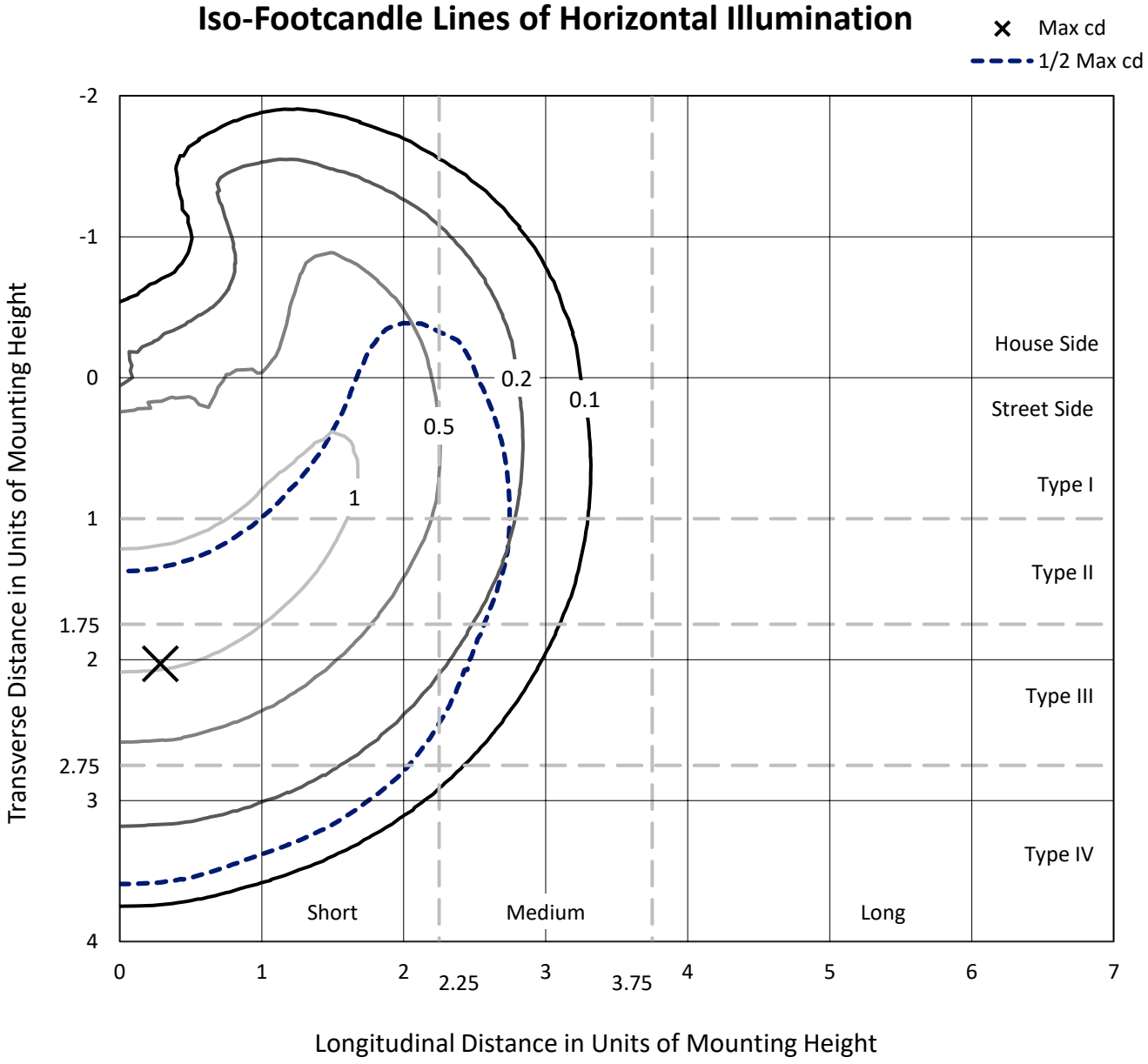


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REPORT NUMBER: P1046216
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## Iso-Footcandle Lines of Horizontal Illumination



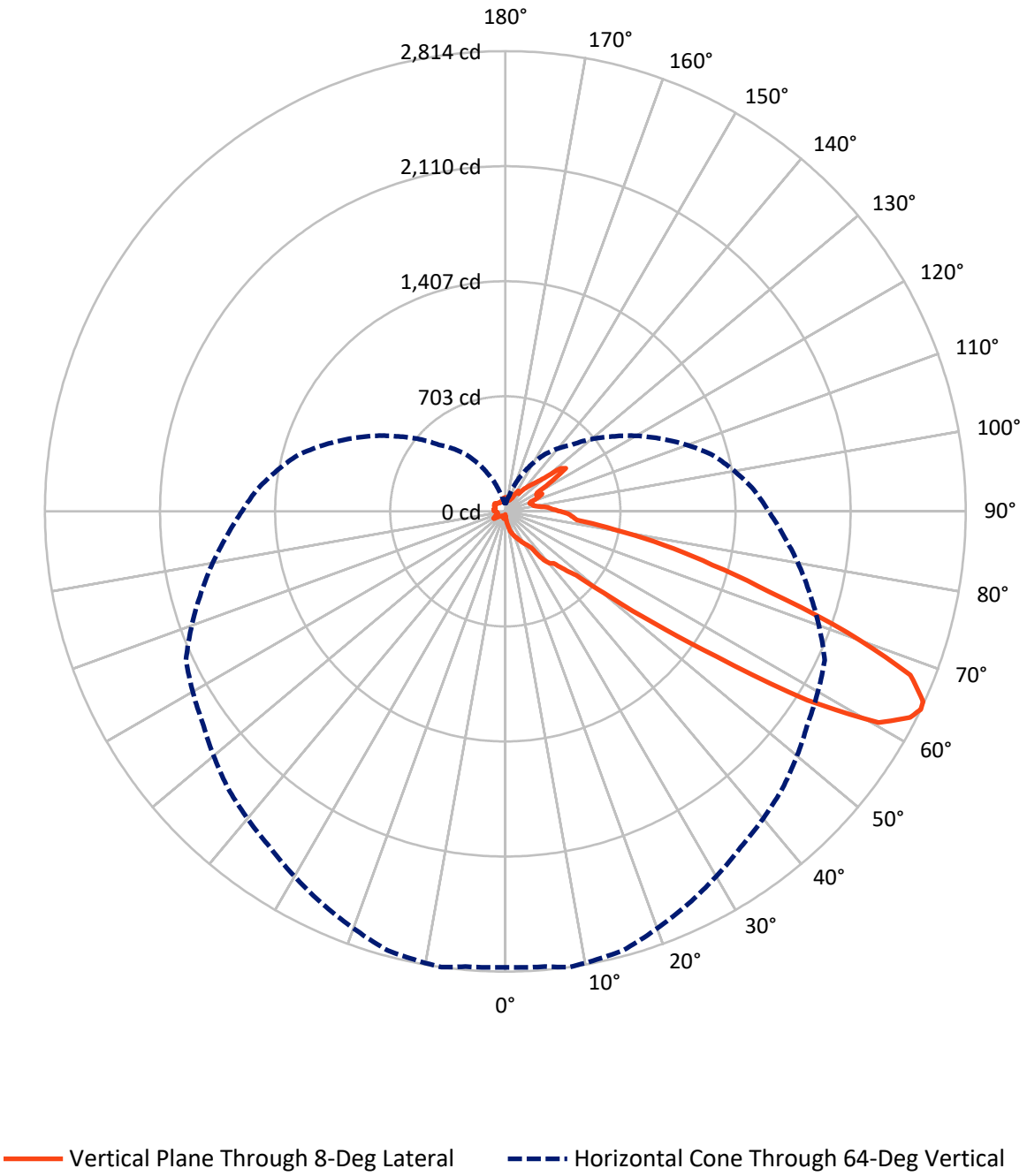

Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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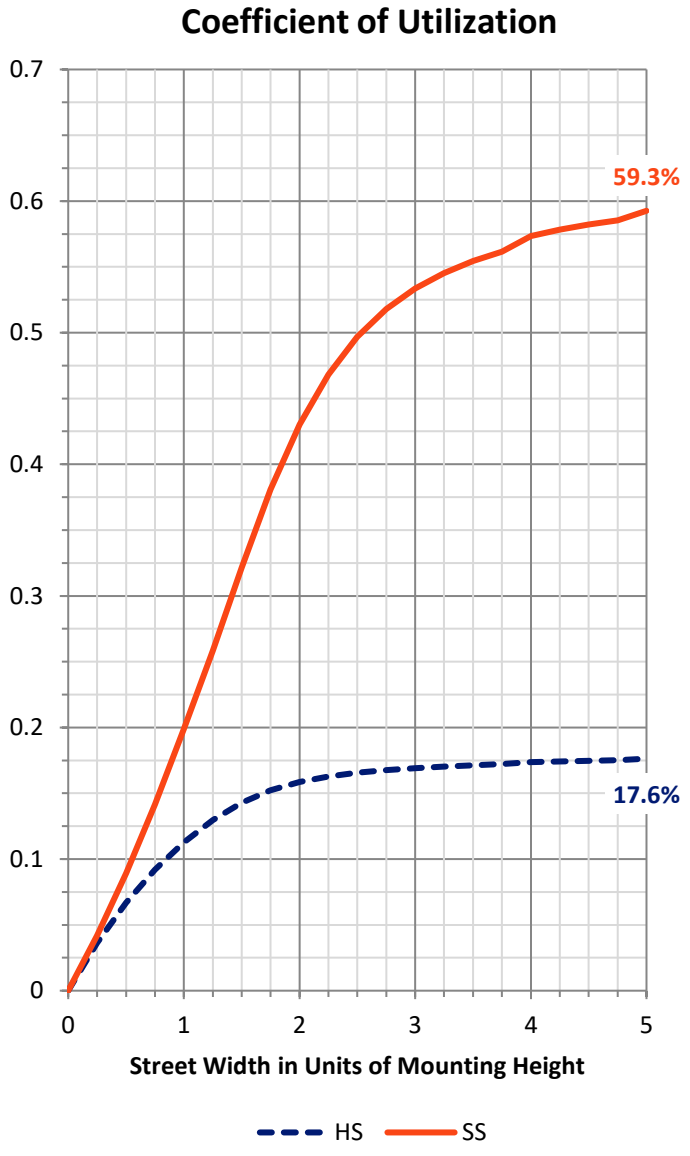
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 860.2 | 321.3 | 1181.5 |
| | % Fixture | 18.3 | 6.8 | 25.1 |
| **Street Side** | Lumens | 2906.7 | 615.3 | 3522.0 |
| | % Fixture | 61.8 | 13.1 | 74.9 |
| **Total** | Lumens | 3766.9 | 936.6 | 4703.6 |
| | % Fixture | 80.1 | 19.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 4.8 | 0.1 |
| 10°-20° | 25.9 | 0.6 |
| 20°-30° | 56.2 | 1.2 |
| 30°-40° | 112.4 | 2.4 |
| 40°-50° | 243.2 | 5.2 |
| 50°-60° | 843.1 | 17.9 |
| 60°-70° | 1418.2 | 30.2 |
| 70°-80° | 771.2 | 16.4 |
| 80°-90° | 291.9 | 6.2 |
| 90°-100° | 184.2 | 3.9 |
| 100°-110° | 124.3 | 2.6 |
| 110°-120° | 134.5 | 2.9 |
| 120°-130° | 221.3 | 4.7 |
| 130°-140° | 136.3 | 2.9 |
| 140°-150° | 71.3 | 1.5 |
| 150°-160° | 37.1 | 0.8 |
| 160°-170° | 20.2 | 0.4 |
| 170°-180° | 7.6 | 0.2 |
| 0°-90° | 3766.9 | 80.1 |
| 0°-180° | 4703.6 | 100.0 |



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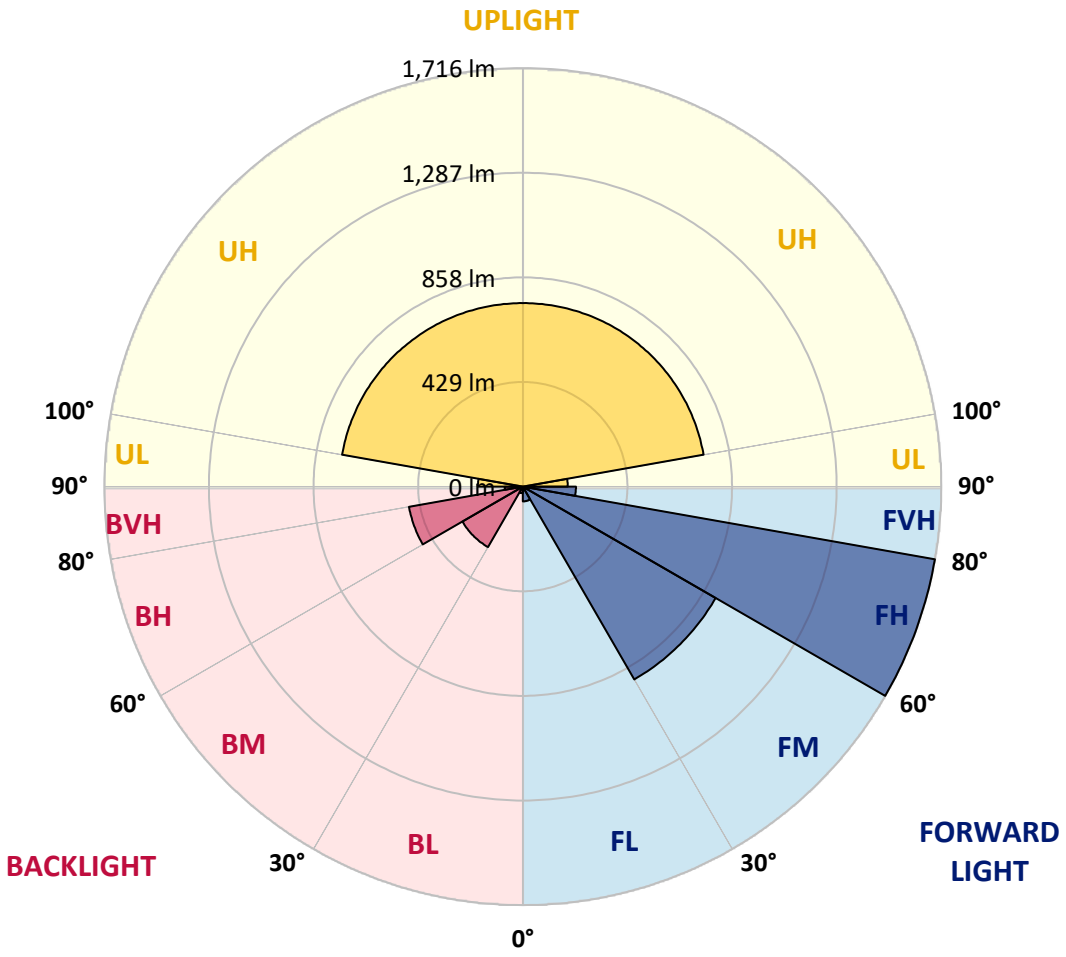
Scaled Data Report

REPORT NUMBER: P1046216
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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°) | 60.5 | 1.3 | | | |
| FM | (30°-60°) | 912.8 | 19.4 | | | |
| FH | (60°-80°) | 1715.7 | 36.5 | | | G1/1800 |
| FVH | (80°-90°) | 217.8 | 4.6 | | | G2/225 |
| BL | (0°-30°) | 26.4 | 0.6 | B0/110 | | |
| BM | (30°-60°) | 285.9 | 6.1 | B1/1000 | | |
| BH | (60°-80°) | 473.7 | 10.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 74.2 | 1.6 | | | G1/100 |
| UL | (90°-100°) | 184.2 | 3.9 | | U3/500 | |
| UH | (100°-180°) | 752.4 | 16.0 | | U4/1000 | |

**BUG Rating: B1-U4-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 8° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 30.2 | 30.2 | *30.2* | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 |
| 2.5° | 32.8 | 32.8 | *32.8* | 33.8 | 34.5 | 34.8 | 33.8 | 33.2 | 32.8 | 32.5 | 31.5 |
| 5° | 47.1 | 47.5 | *47.5* | 48.4 | 47.8 | 48.4 | 47.1 | 46.2 | 44.5 | 42.6 | 41.0 |
| 7.5° | 66.7 | 66.7 | *66.3* | 66.7 | 66.3 | 65.0 | 65.0 | 66.0 | 63.4 | 59.5 | 55.9 |
| 10° | 90.4 | 91.0 | *90.7* | 89.4 | 87.5 | 85.8 | 85.8 | 87.1 | 83.2 | 76.4 | 71.2 |
| 12.5° | 114.5 | 115.8 | *114.5* | 114.8 | 111.5 | 110.2 | 107.6 | 107.0 | 101.8 | 95.3 | 86.2 |
| 15° | 132.3 | 133.3 | *133.6* | 134.6 | 134.3 | 130.1 | 125.5 | 120.6 | 116.4 | 110.6 | 101.1 |
| 17.5° | 146.6 | 147.0 | *147.6* | 147.3 | 145.3 | 141.1 | 135.9 | 130.7 | 123.9 | 117.7 | 108.9 |
| 20° | 160.6 | 161.9 | *161.6* | 161.3 | 160.3 | 157.1 | 150.9 | 143.4 | 137.5 | 128.4 | 119.3 |
| 22.5° | 174.9 | 174.0 | *174.6* | 174.3 | 174.3 | 171.0 | 164.5 | 155.8 | 147.9 | 138.8 | 130.7 |
| 25° | 191.5 | 191.2 | *191.5* | 190.5 | 189.2 | 187.6 | 179.5 | 169.4 | 160.6 | 151.2 | 139.8 |
| 27.5° | 209.1 | 209.4 | *209.7* | 208.1 | 206.5 | 203.9 | 192.2 | 182.1 | 172.7 | 161.0 | 145.0 |
| 30° | 228.6 | 227.6 | *227.9* | 225.7 | 224.7 | 216.6 | 205.2 | 193.1 | 182.7 | 167.1 | 151.5 |
| 32.5° | 246.5 | 244.8 | *244.5* | 242.6 | 240.9 | 229.2 | 217.5 | 205.8 | 193.5 | 177.5 | 163.9 |
| 35° | 271.5 | 274.8 | *273.5* | 273.5 | 277.7 | 259.8 | 246.1 | 234.8 | 221.4 | 204.8 | 190.5 |
| 37.5° | 373.6 | 373.0 | *369.1* | 363.9 | 349.2 | 336.5 | 330.4 | 312.5 | 291.0 | 272.8 | 250.0 |
| 40° | 423.0 | 421.1 | *416.9* | 406.4 | 396.0 | 381.1 | 371.7 | 360.6 | 349.5 | 317.4 | 280.9 |
| 42.5° | 434.7 | 433.1 | *434.1* | 446.4 | 460.1 | 449.0 | 412.3 | 372.3 | 352.8 | 331.0 | 312.8 |
| 45° | 498.8 | 504.3 | *505.9* | 505.6 | 495.9 | 484.2 | 468.2 | 444.2 | 410.3 | 379.5 | 341.4 |
| 47.5° | 580.1 | 579.4 | *583.3* | 578.1 | 586.3 | 565.8 | 545.3 | 520.3 | 485.1 | 443.2 | 397.7 |
| 50° | 792.7 | 785.9 | *786.9* | 788.8 | 776.5 | 761.5 | 743.0 | 729.0 | 660.4 | 600.9 | 531.6 |
| 52.5° | 1130.6 | 1131.6 | *1124.4* | 1124.1 | 1087.3 | 1058.4 | 1025.9 | 1027.2 | 926.4 | 846.4 | 746.2 |
| 55° | 1589.0 | 1589.7 | *1564.0* | 1585.1 | 1543.9 | 1539.9 | 1468.1 | 1375.4 | 1239.8 | 1130.9 | 1030.1 |
| 57.5° | 2160.0 | 2179.5 | *2177.3* | 2139.5 | 2076.5 | 2042.3 | 1926.2 | 1829.0 | 1637.2 | 1466.1 | 1329.2 |
| 60° | 2646.5 | 2637.4 | *2622.4* | 2593.8 | 2404.9 | 2325.5 | 2240.0 | 2157.1 | 1998.1 | 1761.4 | 1556.5 |
| 62.5° | 2785.3 | 2778.5 | *2775.9* | 2761.6 | 2612.3 | 2481.6 | 2374.0 | 2238.4 | 2132.1 | 1899.9 | 1691.1 |
| 64° | *2787.6* | *2793.8* | *2813.9* | *2779.8* | *2647.1* | *2507.6* | *2396.1* | *2257.6* | *2154.2* | *1925.3* | *1707.4* |
| 65° | 2782.4 | 2781.1 | *2806.4* | 2763.2 | 2645.5 | 2506.3 | 2382.4 | 2249.8 | 2147.3 | 1918.4 | 1703.2 |
| 67.5° | 2642.9 | 2637.4 | *2669.9* | 2614.3 | 2511.5 | 2386.0 | 2264.4 | 2122.0 | 2031.9 | 1812.1 | 1603.7 |
| 70° | 2168.8 | 2168.5 | *2219.2* | 2172.7 | 2142.1 | 2009.2 | 1884.9 | 1754.2 | 1658.0 | 1477.5 | 1303.2 |
| 72.5° | 1661.9 | 1659.0 | *1692.8* | 1658.0 | 1642.4 | 1579.6 | 1463.5 | 1348.1 | 1256.4 | 1121.1 | 980.0 |
| 75° | 1324.4 | 1325.7 | *1307.8* | 1273.6 | 1261.0 | 1233.0 | 1181.3 | 1112.4 | 1035.6 | 912.7 | 782.7 |
| 77.5° | 991.7 | 985.2 | *993.0* | 945.2 | 941.7 | 933.2 | 932.9 | 888.7 | 823.6 | 745.3 | 642.2 |
| 80° | 661.0 | 664.9 | *678.9* | 666.2 | 669.8 | 666.9 | 685.1 | 638.3 | 588.9 | 542.7 | 487.7 |
| 82.5° | 427.6 | 438.0 | *441.9* | 459.4 | 474.7 | 481.6 | 456.5 | 409.4 | 378.5 | 361.6 | 337.2 |
| 85° | 410.3 | 414.6 | *412.3* | 401.9 | 396.7 | 388.2 | 387.9 | 373.0 | 357.0 | 324.5 | 284.8 |
| 87.5° | 378.5 | 383.4 | *381.4* | 372.3 | 360.6 | 359.6 | 357.3 | 346.9 | 339.5 | 313.8 | 278.7 |
| 90° | 322.9 | 323.2 | *324.8* | 323.2 | 320.9 | 319.3 | 306.3 | 300.1 | 295.6 | 273.5 | 249.7 |
| 92.5° | 280.0 | 283.9 | *282.9* | 280.0 | 272.5 | 277.0 | 263.1 | 251.3 | 248.7 | 233.5 | 215.3 |
| 95° | 257.2 | 259.8 | *260.5* | 255.2 | 248.1 | 246.5 | 235.7 | 226.6 | 222.4 | 212.3 | 190.2 |
| 97.5° | 213.3 | 211.7 | *210.4* | 209.1 | 204.2 | 199.0 | 192.2 | 180.8 | 177.2 | 166.2 | 153.8 |
| 100° | 182.1 | 182.7 | *182.1* | 181.1 | 176.9 | 174.3 | 169.4 | 160.3 | 156.4 | 149.2 | 140.8 |
| 102.5° | 173.6 | 174.0 | *174.0* | 174.3 | 167.1 | 161.3 | 156.1 | 149.6 | 146.0 | 139.8 | 131.7 |
| 105° | 165.8 | 165.8 | *166.5* | 166.8 | 159.7 | 151.2 | 143.7 | 140.1 | 138.5 | 131.4 | 122.9 |
| 107.5° | 156.1 | 155.8 | *156.7* | 152.5 | 145.3 | 141.8 | 134.0 | 129.7 | 129.1 | 123.6 | 114.8 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 8° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 170.4 | 166.8 | *166.2* | 155.8 | 146.0 | 137.9 | 134.0 | 130.1 | 127.8 | 120.3 | 114.8 |
| 112.5° | 223.1 | 218.2 | *216.9* | 207.1 | 173.0 | 170.1 | 166.5 | 165.2 | 163.9 | 153.8 | 144.4 |
| 115° | 245.8 | 245.8 | *249.7* | 245.8 | 222.1 | 195.1 | 191.2 | 185.3 | 187.6 | 175.3 | 161.6 |
| 117.5° | 196.7 | 210.4 | *214.3* | 202.6 | 203.5 | 186.3 | 159.7 | 150.5 | 146.0 | 142.4 | 148.6 |
| 120° | 220.8 | 229.9 | *226.0* | 204.5 | 194.8 | 184.7 | 186.0 | 182.7 | 166.5 | 144.0 | 146.3 |
| 122.5° | 329.1 | 337.5 | *340.4* | 342.1 | 346.6 | 339.8 | 324.5 | 303.0 | 286.8 | 259.8 | 244.5 |
| 125° | 460.7 | 454.6 | *453.9* | 456.8 | 460.4 | 451.6 | 445.1 | 440.9 | 430.8 | 395.4 | 345.6 |
| 127.5° | 423.0 | 420.1 | *425.0* | 424.3 | 433.1 | 418.2 | 415.2 | 417.5 | 413.6 | 393.8 | 364.8 |
| 130° | 303.4 | 308.6 | *312.2* | 323.9 | 341.1 | 327.8 | 315.4 | 296.9 | 295.6 | 305.3 | 290.0 |
| 132.5° | 254.6 | 256.9 | *263.4* | 278.7 | 291.7 | 286.1 | 267.9 | 250.0 | 248.7 | 256.9 | 255.6 |
| 135° | 225.0 | 226.6 | *227.6* | 228.3 | 226.0 | 231.2 | 227.3 | 220.8 | 216.6 | 216.9 | 213.0 |
| 137.5° | 200.9 | 201.6 | *200.9* | 195.7 | 189.6 | 188.6 | 198.3 | 198.7 | 194.8 | 187.9 | 182.7 |
| 140° | 174.3 | 174.3 | *171.7* | 168.1 | 167.1 | 167.5 | 173.0 | 174.0 | 169.4 | 163.9 | 156.1 |
| 142.5° | 136.2 | 134.6 | *134.9* | 140.8 | 151.2 | 148.9 | 141.8 | 132.7 | 131.4 | 137.9 | 135.3 |
| 145° | 147.3 | 147.0 | *146.0* | 146.3 | 143.7 | 139.5 | 136.9 | 134.0 | 128.8 | 124.5 | 120.3 |
| 147.5° | 148.6 | 147.3 | *147.9* | 146.6 | 145.3 | 143.4 | 142.4 | 143.7 | 142.4 | 139.5 | 134.0 |
| 150° | 117.4 | 118.0 | *118.7* | 117.1 | 118.4 | 119.0 | 118.4 | 117.4 | 119.0 | 115.4 | 113.2 |
| 152.5° | 91.7 | 91.4 | *91.0* | 91.7 | 91.4 | 92.7 | 93.0 | 92.7 | 92.0 | 91.7 | 88.1 |
| 155° | 86.2 | 87.1 | *86.5* | 84.5 | 85.8 | 86.8 | 88.1 | 89.1 | 88.1 | 86.5 | 83.2 |
| 157.5° | 79.3 | 79.3 | *79.3* | 79.3 | 79.7 | 80.0 | 81.6 | 82.3 | 82.3 | 81.3 | 79.0 |
| 160° | 73.8 | 74.1 | *74.1* | 74.1 | 74.8 | 75.4 | 76.4 | 77.1 | 77.7 | 77.1 | 75.8 |
| 162.5° | 70.6 | 70.2 | *70.2* | 70.6 | 70.6 | 71.5 | 72.5 | 73.8 | 74.1 | 73.5 | 73.5 |
| 165° | 68.6 | 68.6 | *68.6* | 68.9 | 69.6 | 70.2 | 71.5 | 71.9 | 72.2 | 72.8 | 72.8 |
| 167.5° | 70.9 | 70.9 | *70.9* | 71.2 | 71.9 | 72.8 | 73.5 | 74.1 | 75.4 | 75.8 | 75.8 |
| 170° | 74.5 | 74.5 | *74.5* | 74.8 | 75.1 | 75.4 | 75.8 | 76.4 | 76.7 | 77.4 | 77.1 |
| 172.5° | 78.0 | 77.7 | *78.0* | 78.0 | 78.0 | 78.0 | 78.0 | 78.4 | 78.7 | 78.7 | 78.7 |
| 175° | 81.9 | 81.9 | *82.3* | 81.9 | 81.3 | 81.3 | 81.3 | 81.6 | 81.6 | 81.6 | 81.3 |
| 177.5° | 85.8 | 85.8 | *85.5* | 85.8 | 85.5 | 85.2 | 84.9 | 84.5 | 83.9 | 83.9 | 83.2 |
| 180° | 83.6 | 83.6 | *83.6* | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 |
| 2.5° | 30.9 | 29.6 | 28.0 | 26.0 | 24.1 | 22.8 | 21.5 | 19.8 | 18.9 | 18.5 | 18.5 |
| 5° | 39.0 | 38.0 | 36.4 | 33.8 | 32.2 | 29.3 | 26.7 | 25.0 | 23.4 | 21.8 | 20.5 |
| 7.5° | 54.6 | 54.3 | 55.3 | 57.2 | 54.6 | 47.8 | 40.6 | 36.7 | 37.1 | 39.0 | 40.0 |
| 10° | 68.6 | 66.7 | 67.0 | 71.5 | 67.3 | 54.3 | 44.5 | 41.0 | 42.9 | 46.8 | 47.5 |
| 12.5° | 83.2 | 80.3 | 78.0 | 77.1 | 67.6 | 53.0 | 44.2 | 40.0 | 41.0 | 44.2 | 44.2 |
| 15° | 96.6 | 93.0 | 87.8 | 81.0 | 69.9 | 56.9 | 46.2 | 40.0 | 40.0 | 39.7 | 39.0 |
| 17.5° | 104.1 | 100.1 | 90.7 | 80.0 | 68.0 | 56.3 | 45.2 | 39.0 | 35.8 | 33.2 | 32.8 |
| 20° | 115.8 | 113.8 | 101.8 | 86.5 | 69.9 | 55.0 | 43.6 | 37.4 | 33.8 | 31.9 | 31.2 |
| 22.5° | 127.1 | 121.6 | 106.0 | 90.4 | 71.5 | 54.6 | 42.9 | 37.1 | 33.8 | 32.2 | 31.5 |
| 25° | 133.3 | 126.5 | 110.9 | 94.9 | 73.8 | 55.0 | 43.6 | 37.7 | 34.1 | 32.5 | 32.2 |
| 27.5° | 138.2 | 131.0 | 116.4 | 99.2 | 76.7 | 56.3 | 45.5 | 38.7 | 34.8 | 32.8 | 32.5 |
| 30° | 144.7 | 137.9 | 122.9 | 104.4 | 79.3 | 59.2 | 47.8 | 40.3 | 35.8 | 33.8 | 33.5 |
| 32.5° | 157.1 | 148.6 | 131.0 | 108.9 | 82.6 | 62.1 | 50.7 | 42.9 | 37.4 | 34.5 | 34.5 |
| 35° | 182.7 | 173.6 | 150.2 | 121.3 | 86.2 | 64.4 | 52.7 | 44.5 | 38.7 | 35.4 | 35.1 |
| 37.5° | 236.7 | 225.3 | 196.7 | 151.8 | 94.9 | 67.6 | 55.0 | 45.5 | 39.3 | 36.4 | 35.8 |
| 40° | 262.7 | 241.6 | 209.4 | 169.7 | 109.6 | 72.8 | 58.5 | 47.8 | 40.3 | 36.7 | 36.4 |
| 42.5° | 294.3 | 276.7 | 232.5 | 174.3 | 121.6 | 84.9 | 64.7 | 51.0 | 42.3 | 37.4 | 37.1 |
| 45° | 325.2 | 307.9 | 268.6 | 212.0 | 146.3 | 103.7 | 74.8 | 56.6 | 45.2 | 39.0 | 38.0 |
| 47.5° | 379.1 | 350.8 | 303.7 | 248.1 | 180.1 | 131.4 | 92.0 | 64.4 | 50.1 | 41.0 | 39.7 |
| 50° | 512.8 | 494.2 | 422.1 | 336.9 | 234.4 | 171.0 | 125.2 | 82.6 | 55.6 | 42.3 | 40.3 |
| 52.5° | 691.6 | 656.5 | 574.6 | 470.2 | 340.1 | 253.9 | 183.1 | 122.6 | 68.3 | 43.6 | 41.0 |
| 55° | 974.8 | 920.2 | 825.9 | 645.1 | 488.1 | 385.0 | 286.5 | 201.3 | 104.1 | 46.5 | 41.3 |
| 57.5° | 1277.5 | 1228.1 | 1115.6 | 891.6 | 661.4 | 490.3 | 377.2 | 284.2 | 146.0 | 53.0 | 44.9 |
| 60° | 1480.1 | 1394.0 | 1265.5 | 1049.0 | 799.6 | 576.5 | 422.1 | 298.2 | 151.5 | 54.3 | 46.8 |
| 62.5° | 1596.2 | 1507.1 | 1317.2 | 1068.5 | 824.3 | 595.7 | 441.6 | 273.1 | 121.0 | 52.7 | 48.8 |
| 64° | *1609.9* | *1524.0* | *1317.9* | *1049.9* | *797.9* | *575.9* | *427.9* | *256.2* | *105.0* | *52.0* | *49.7* |
| 65° | 1599.1 | 1519.8 | 1301.9 | 1027.8 | 762.5 | 550.2 | 411.7 | 239.3 | 93.3 | 51.4 | 50.1 |
| 67.5° | 1494.8 | 1425.2 | 1196.9 | 932.2 | 678.0 | 475.1 | 337.8 | 184.0 | 73.2 | 50.1 | 49.4 |
| 70° | 1210.6 | 1178.7 | 983.9 | 752.1 | 535.9 | 378.8 | 266.3 | 140.8 | 62.1 | 48.8 | 48.1 |
| 72.5° | 908.2 | 867.8 | 734.2 | 573.9 | 417.5 | 294.6 | 202.2 | 108.3 | 55.0 | 47.5 | 46.8 |
| 75° | 728.0 | 688.7 | 582.0 | 452.0 | 310.5 | 220.1 | 149.6 | 81.0 | 51.7 | 47.1 | 46.5 |
| 77.5° | 601.9 | 570.3 | 478.6 | 344.0 | 220.8 | 157.7 | 109.9 | 66.0 | 50.7 | 47.5 | 46.8 |
| 80° | 463.0 | 457.8 | 373.9 | 250.4 | 156.4 | 117.7 | 88.8 | 61.8 | 51.0 | 48.8 | 48.1 |
| 82.5° | 324.8 | 311.8 | 264.0 | 186.3 | 135.3 | 107.6 | 85.2 | 62.8 | 53.7 | 51.7 | 51.4 |
| 85° | 267.6 | 257.5 | 226.0 | 179.2 | 128.8 | 104.1 | 84.2 | 64.4 | 56.3 | 54.6 | 54.0 |
| 87.5° | 264.7 | 253.6 | 223.7 | 171.4 | 122.3 | 99.2 | 80.3 | 62.8 | 55.9 | 55.0 | 55.6 |
| 90° | 240.3 | 232.2 | 204.5 | 158.0 | 121.3 | 100.8 | 83.9 | 69.3 | 62.1 | 58.9 | 58.2 |
| 92.5° | 210.4 | 205.5 | 186.0 | 153.5 | 125.8 | 106.7 | 91.4 | 76.7 | 70.2 | 68.3 | 67.3 |
| 95° | 183.7 | 181.8 | 165.8 | 139.5 | 116.1 | 100.5 | 86.5 | 73.8 | 68.3 | 65.7 | 65.4 |
| 97.5° | 150.5 | 148.3 | 135.9 | 118.7 | 101.4 | 88.4 | 78.0 | 68.3 | 64.4 | 64.1 | 63.7 |
| 100° | 137.5 | 135.9 | 127.1 | 116.1 | 102.4 | 92.7 | 83.6 | 75.4 | 72.2 | 72.2 | 72.5 |
| 102.5° | 127.1 | 126.2 | 118.4 | 107.0 | 96.2 | 87.1 | 79.7 | 72.2 | 68.3 | 68.3 | 66.0 |
| 105° | 118.7 | 117.1 | 109.9 | 100.8 | 89.7 | 81.3 | 74.1 | 68.6 | 64.4 | 63.1 | 63.1 |
| 107.5° | 111.2 | 109.3 | 103.4 | 94.6 | 86.5 | 78.4 | 71.9 | 66.7 | 63.7 | 62.8 | 62.8 |

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

Scaled Data Report

REPORT NUMBER: P1046216
CATALOG NUMBER: FFX-CLB-30-740-U-FR-T4-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 111.5 | 109.9 | 103.1 | 93.6 | 86.2 | 80.0 | 74.8 | 69.9 | 67.3 | 65.4 | 65.4 |
| 112.5° | 137.2 | 130.4 | 118.4 | 104.4 | 95.9 | 87.8 | 79.7 | 72.8 | 69.6 | 68.9 | 68.3 |
| 115° | 155.4 | 148.6 | 133.6 | 115.4 | 100.1 | 88.8 | 80.6 | 75.4 | 72.5 | 74.5 | 75.4 |
| 117.5° | 156.1 | 143.7 | 115.1 | 106.3 | 95.3 | 85.8 | 80.3 | 77.1 | 75.1 | 77.1 | 77.1 |
| 120° | 159.0 | 134.0 | 118.7 | 115.1 | 102.1 | 88.8 | 82.6 | 81.9 | 80.0 | 76.1 | 76.1 |
| 122.5° | 236.4 | 213.6 | 189.2 | 158.4 | 131.4 | 118.7 | 107.6 | 88.4 | 79.3 | 75.1 | 74.8 |
| 125° | 325.8 | 302.1 | 264.0 | 222.7 | 183.7 | 143.1 | 106.3 | 90.7 | 81.3 | 76.1 | 75.1 |
| 127.5° | 346.3 | 327.8 | 277.7 | 228.3 | 173.0 | 133.3 | 106.7 | 93.3 | 83.9 | 78.4 | 77.4 |
| 130° | 279.3 | 264.7 | 230.9 | 190.5 | 152.2 | 123.2 | 104.1 | 90.7 | 81.6 | 76.1 | 74.8 |
| 132.5° | 248.4 | 234.8 | 201.6 | 164.9 | 134.9 | 112.5 | 95.3 | 82.3 | 73.2 | 69.3 | 69.3 |
| 135° | 207.8 | 198.3 | 168.8 | 147.0 | 125.5 | 106.7 | 89.7 | 77.7 | 70.2 | 68.0 | 68.0 |
| 137.5° | 178.2 | 170.7 | 149.6 | 132.3 | 115.8 | 99.5 | 84.9 | 75.1 | 69.9 | 67.6 | 67.3 |
| 140° | 152.5 | 147.6 | 135.3 | 118.4 | 102.4 | 86.5 | 75.1 | 69.6 | 67.3 | 66.3 | 66.0 |
| 142.5° | 132.7 | 129.1 | 118.0 | 100.5 | 84.9 | 75.1 | 70.9 | 69.3 | 67.0 | 64.7 | 64.4 |
| 145° | 116.1 | 113.2 | 100.5 | 90.4 | 82.9 | 79.0 | 75.8 | 70.9 | 65.4 | 62.4 | 62.1 |
| 147.5° | 130.4 | 125.8 | 114.8 | 103.1 | 91.0 | 81.9 | 74.8 | 68.3 | 63.1 | 61.1 | 61.1 |
| 150° | 112.2 | 108.9 | 102.1 | 93.0 | 82.9 | 74.5 | 68.3 | 64.1 | 62.1 | 61.8 | 61.8 |
| 152.5° | 87.1 | 85.5 | 83.6 | 79.0 | 72.5 | 67.0 | 63.1 | 61.1 | 61.8 | 63.1 | 63.4 |
| 155° | 81.9 | 81.3 | 79.3 | 75.1 | 70.9 | 65.7 | 62.4 | 61.5 | 62.4 | 63.7 | 64.1 |
| 157.5° | 78.0 | 77.7 | 76.1 | 72.2 | 68.3 | 65.0 | 62.8 | 62.1 | 63.1 | 64.1 | 64.1 |
| 160° | 74.8 | 74.5 | 72.2 | 69.3 | 66.3 | 64.1 | 62.4 | 62.4 | 63.4 | 64.1 | 64.1 |
| 162.5° | 72.8 | 72.5 | 70.9 | 68.6 | 66.7 | 65.4 | 65.0 | 65.0 | 65.4 | 65.7 | 65.7 |
| 165° | 72.8 | 72.5 | 70.9 | 68.9 | 67.6 | 67.6 | 68.3 | 68.6 | 67.6 | 67.0 | 67.3 |
| 167.5° | 75.8 | 75.1 | 73.2 | 71.5 | 71.2 | 71.5 | 72.5 | 72.5 | 71.9 | 70.9 | 70.6 |
| 170° | 76.7 | 76.4 | 75.8 | 75.1 | 75.1 | 75.1 | 75.4 | 75.8 | 75.8 | 76.1 | 76.1 |
| 172.5° | 78.7 | 78.7 | 78.4 | 78.4 | 78.7 | 78.4 | 78.4 | 79.0 | 79.7 | 80.0 | 80.3 |
| 175° | 81.3 | 81.0 | 81.3 | 81.3 | 81.6 | 81.3 | 81.0 | 81.6 | 82.6 | 83.2 | 83.2 |
| 177.5° | 83.2 | 83.2 | 82.9 | 82.6 | 82.6 | 82.6 | 82.6 | 82.9 | 82.9 | 82.9 | 82.6 |
| 180° | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 |

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

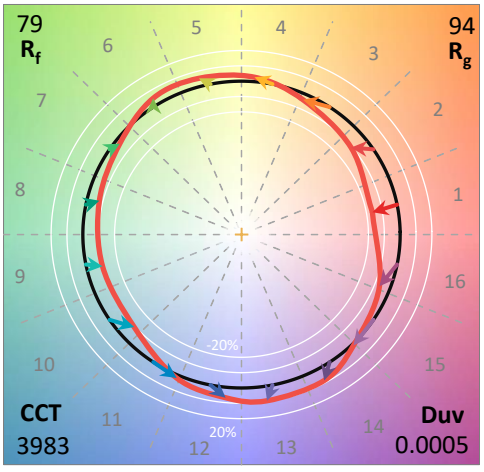
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-11 |
| 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-20-740-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): | 3983 | CRI (Ra): | 76.2 | | |
| CIE u': | 0.2252 | R1: | 72.6 | R9: | -26.0 |
| CIE v': | 0.5025 | R2: | 84.0 | R10: | 63.7 |
| Duv: | 0.0005 | R3: | 93.4 | R11: | 72.4 |
| CIE x: | 0.3815 | R4: | 74.5 | R12: | 56.4 |
| CIE y: | 0.3785 | R5: | 73.8 | R13: | 75.0 |
| CIE z: | 0.2400 | R6: | 78.3 | R14: | 96.6 |
| Peak Wavelength (nm): | 448 | R7: | 81.1 | R15: | 64.5 |
| Dominant Wavelength (nm): | 578 | R8: | 52.1 | | |
| Purity: | 28.07575 | | | | |

| | |
|---|---|
| Rf: | 79 |
| Rg: | 94.1 |




## Test Conditions

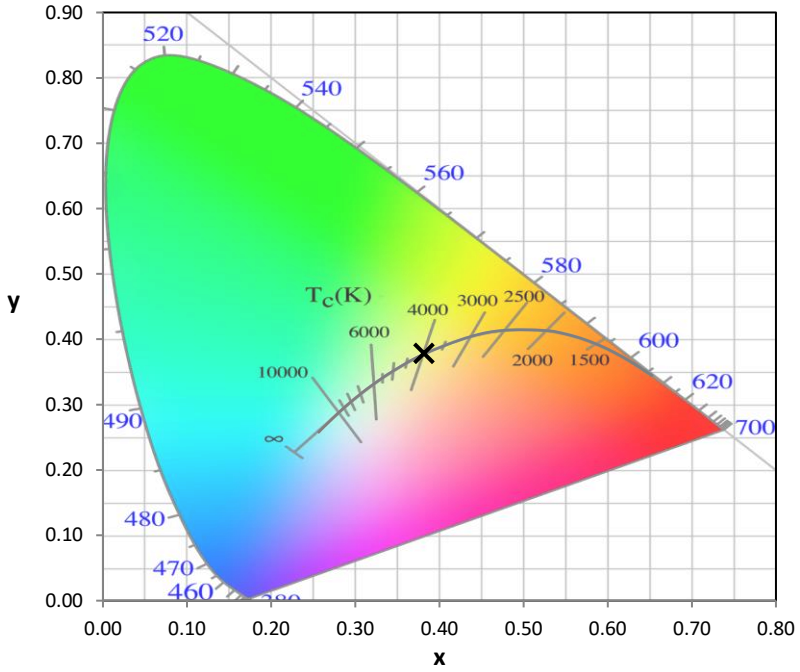
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-11

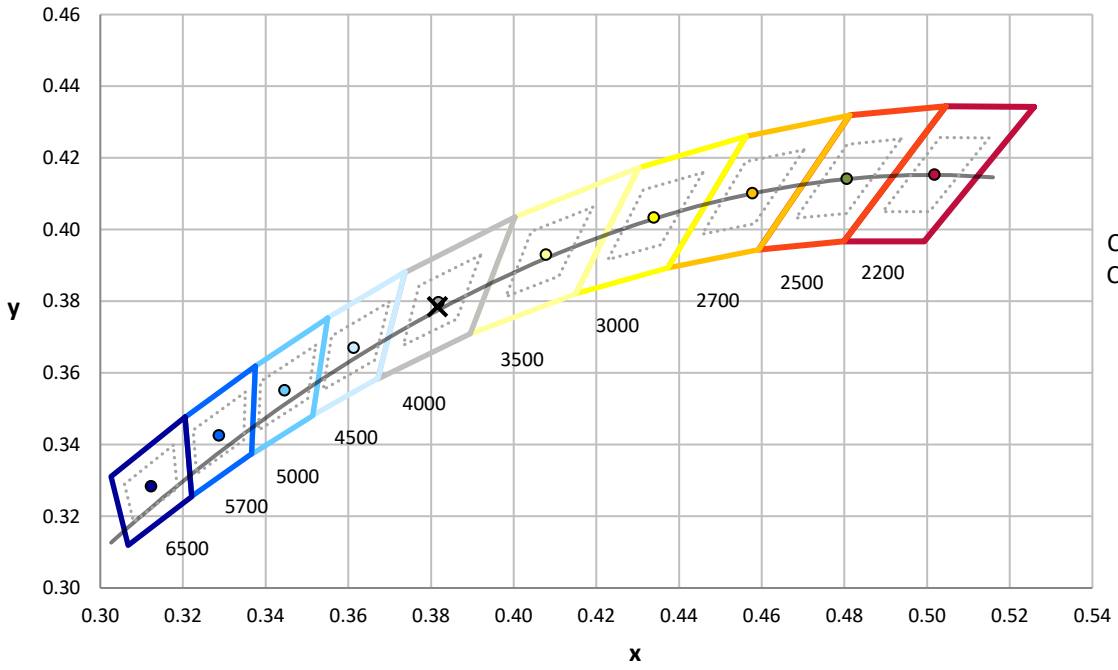
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-11

## CIE 1931 Chromaticity Diagram




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

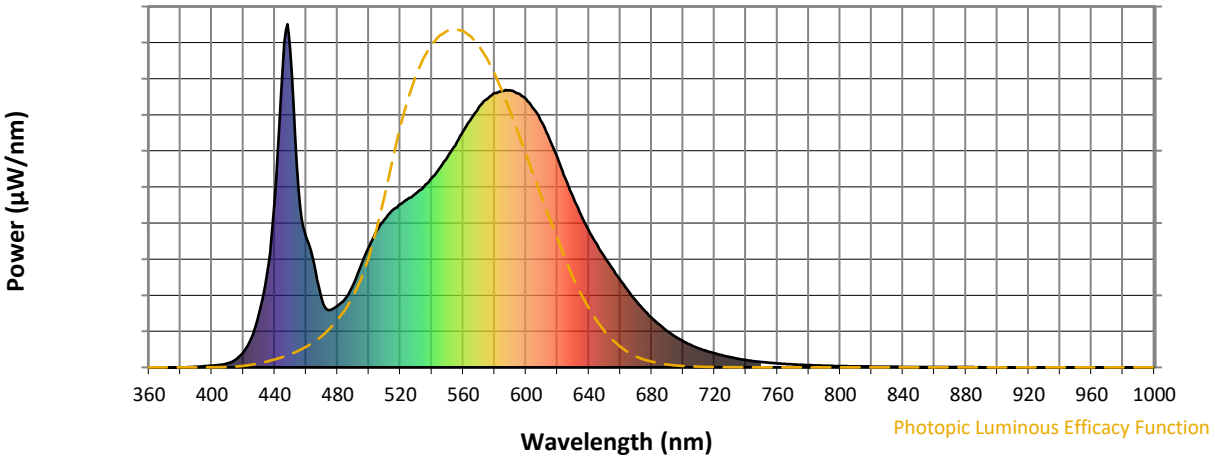



CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

## Photopic Flux vs. Wavelength

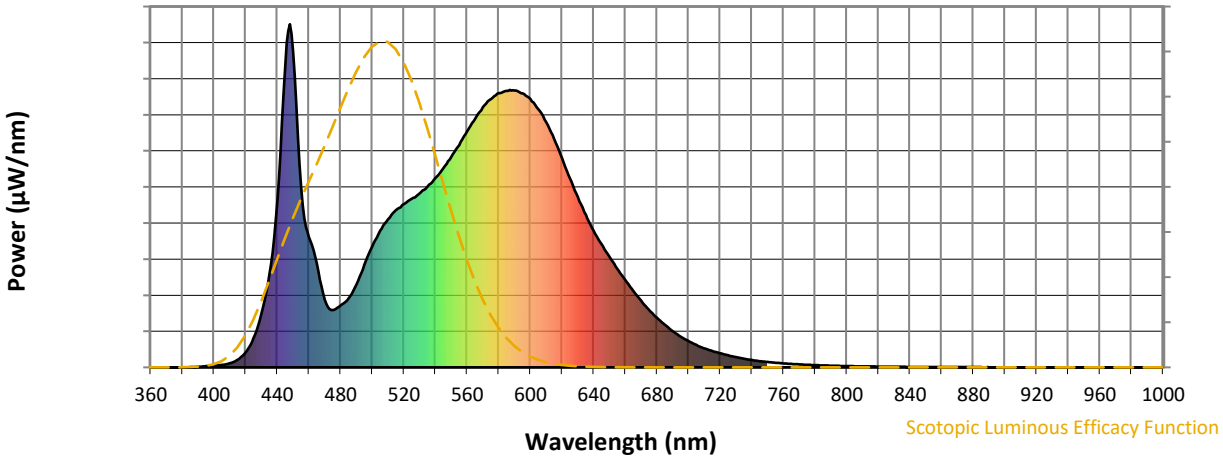



## Photopic Lumens: NR

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-11

## Scotopic Flux vs. Wavelength

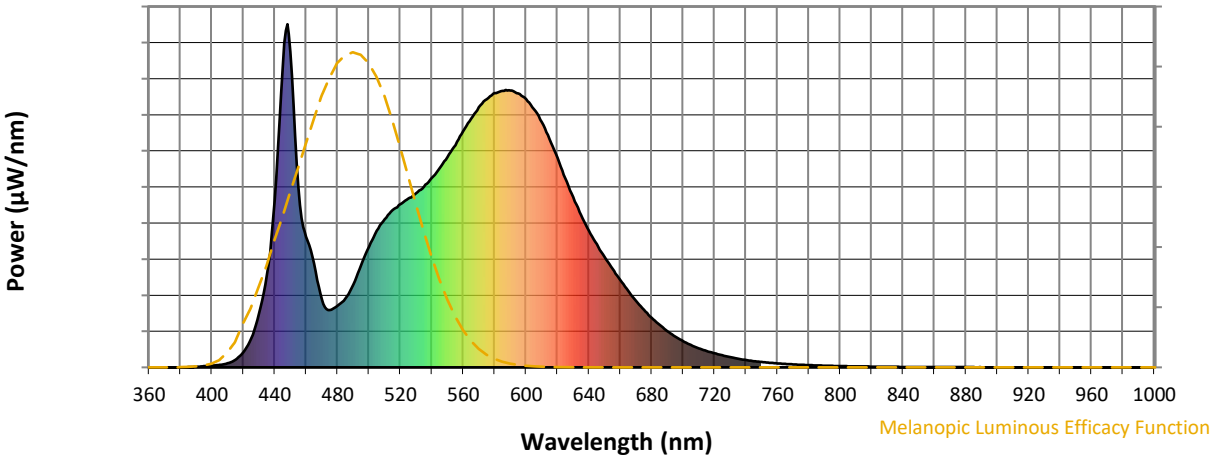



**Scotopic Lumens: NR** **S/P: 1.61**

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-11

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.24**

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

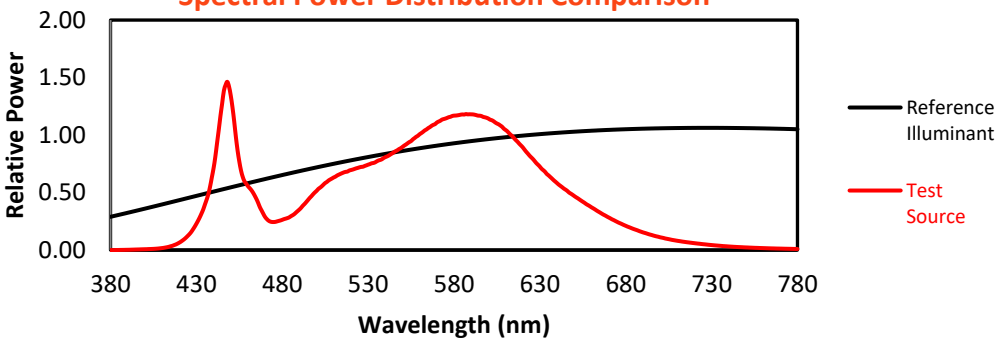
REPORT NUMBER: SP1-2501-332-11

# TM-30-18

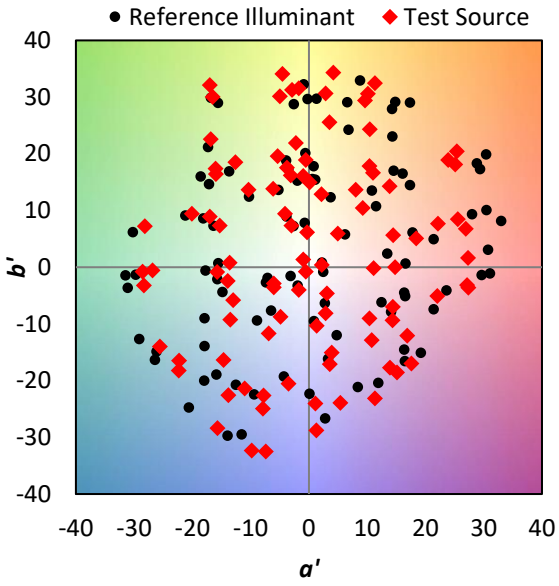
## Summary

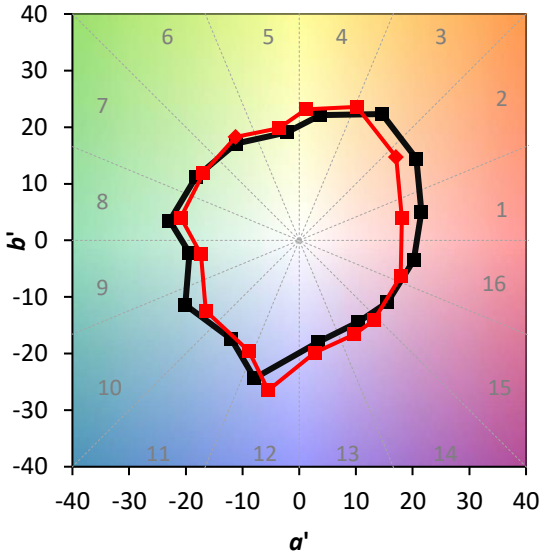
$R_f$ = 79
$R_g$ = 94.1
CIE $R_a$ = 76.2
$R_9$ = -26.0

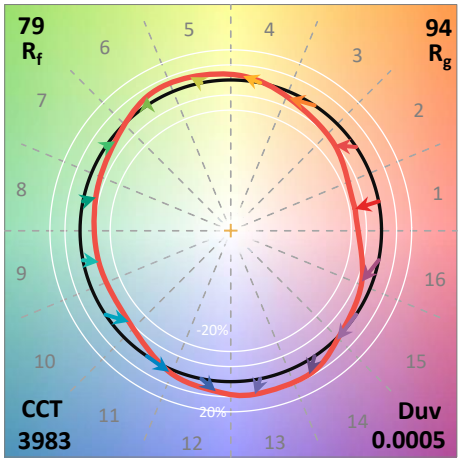
## Spectral Power Distribution Comparison

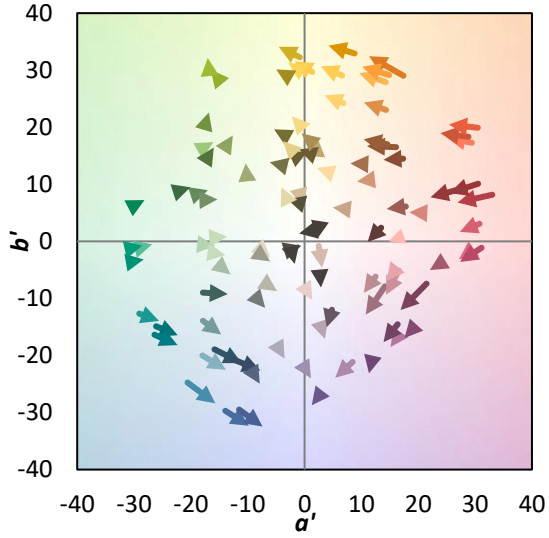



## Color Vector Graphics



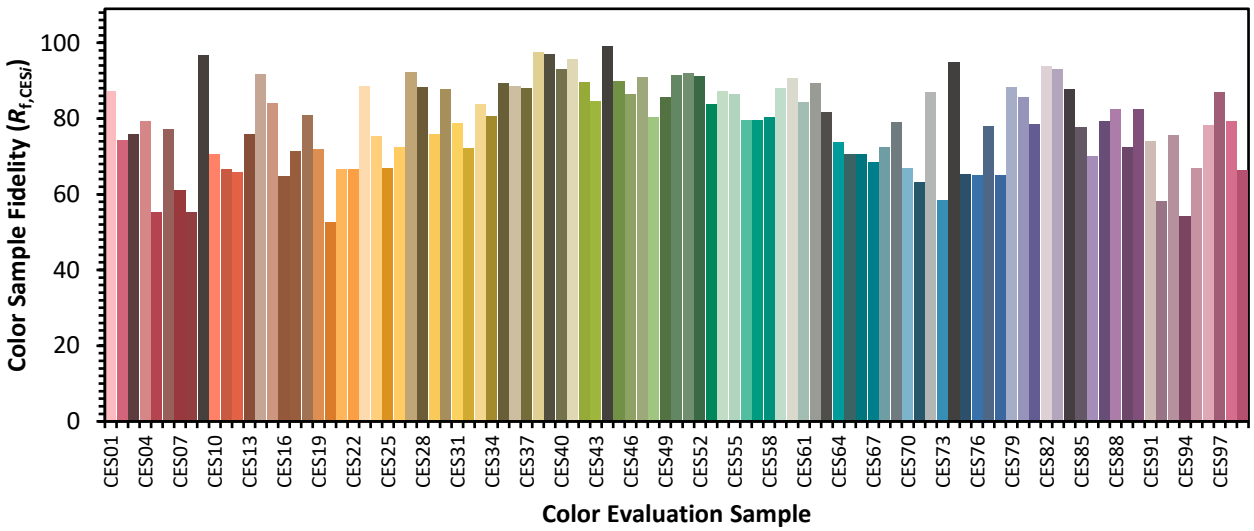



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**Individual Sample Fidelity Index ($R_{f,i}$)**

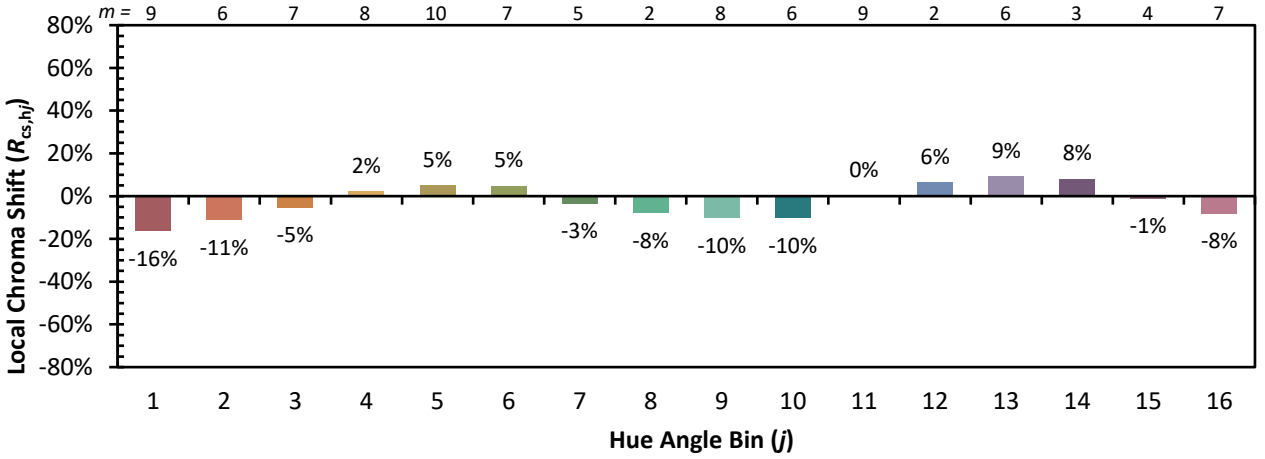
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 92 | CES76 = 65 |
| CES02 = 61 | CES27 = 92 | CES52 = 91 | CES77 = 78 |
| CES03 = 30 | CES28 = 88 | CES53 = 84 | CES78 = 65 |
| CES04 = 70 | CES29 = 76 | CES54 = 87 | CES79 = 88 |
| CES05 = 47 | CES30 = 88 | CES55 = 86 | CES80 = 86 |
| CES06 = 50 | CES31 = 79 | CES56 = 80 | CES81 = 79 |
| CES07 = 40 | CES32 = 72 | CES57 = 79 | CES82 = 94 |
| CES08 = 39 | CES33 = 84 | CES58 = 80 | CES83 = 93 |
| CES09 = 29 | CES34 = 81 | CES59 = 88 | CES84 = 88 |
| CES10 = 74 | CES35 = 89 | CES60 = 91 | CES85 = 78 |
| CES11 = 57 | CES36 = 88 | CES61 = 84 | CES86 = 70 |
| CES12 = 63 | CES37 = 88 | CES62 = 89 | CES87 = 79 |
| CES13 = 42 | CES38 = 98 | CES63 = 82 | CES88 = 82 |
| CES14 = 74 | CES39 = 97 | CES64 = 74 | CES89 = 72 |
| CES15 = 71 | CES40 = 93 | CES65 = 71 | CES90 = 83 |
| CES16 = 46 | CES41 = 96 | CES66 = 71 | CES91 = 74 |
| CES17 = 49 | CES42 = 90 | CES67 = 68 | CES92 = 58 |
| CES18 = 56 | CES43 = 85 | CES68 = 72 | CES93 = 76 |
| CES19 = 72 | CES44 = 99 | CES69 = 79 | CES94 = 54 |
| CES20 = 65 | CES45 = 90 | CES70 = 67 | CES95 = 67 |
| CES21 = 86 | CES46 = 87 | CES71 = 63 | CES96 = 78 |
| CES22 = 78 | CES47 = 91 | CES72 = 87 | CES97 = 87 |
| CES23 = 91 | CES48 = 80 | CES73 = 58 | CES98 = 79 |
| CES24 = 91 | CES49 = 86 | CES74 = 95 | CES99 = 66 |
| CES25 = 72 | CES50 = 92 | CES75 = 65 | |

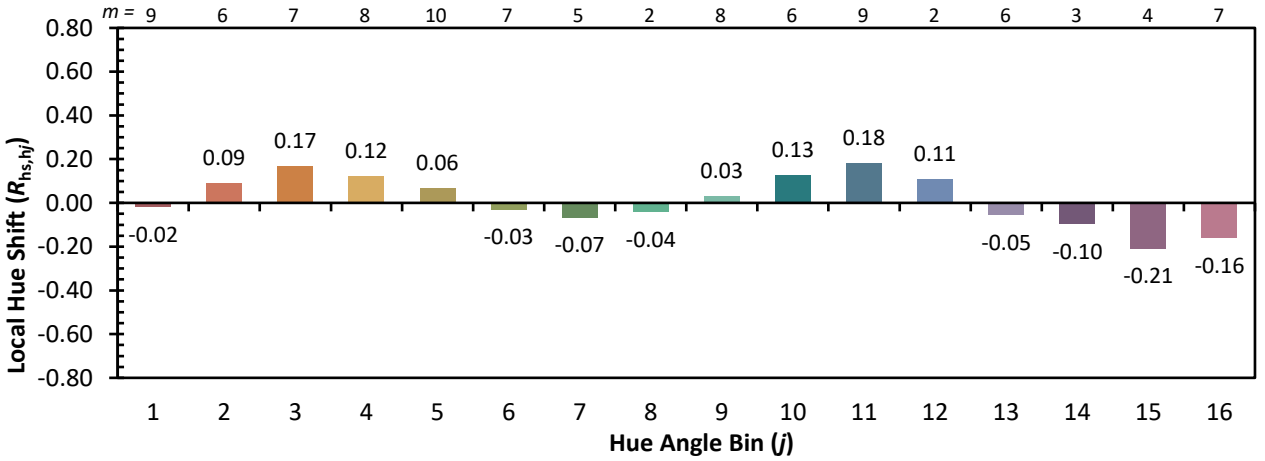


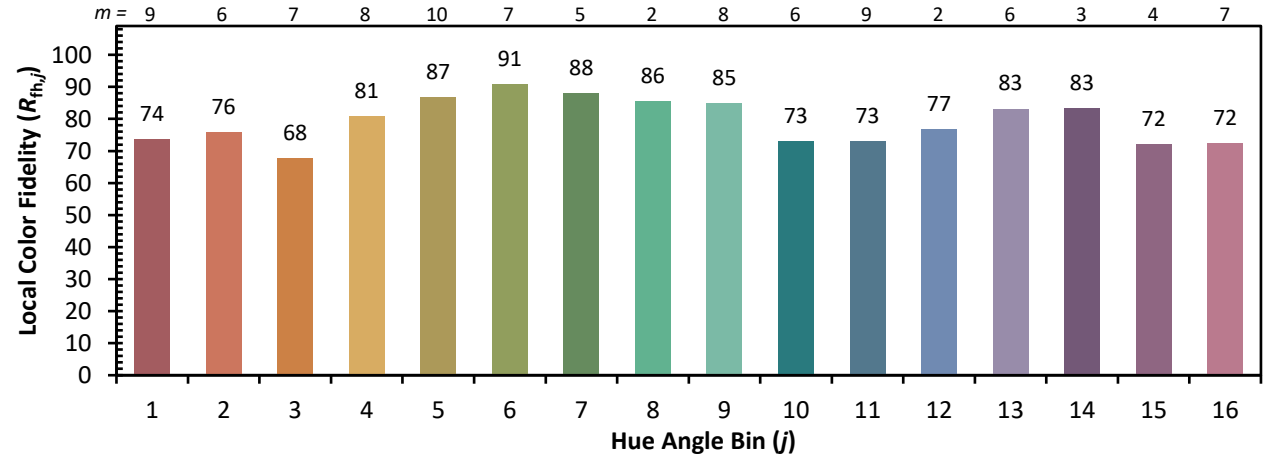
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## Color Rendition by Hue-Angle Bin



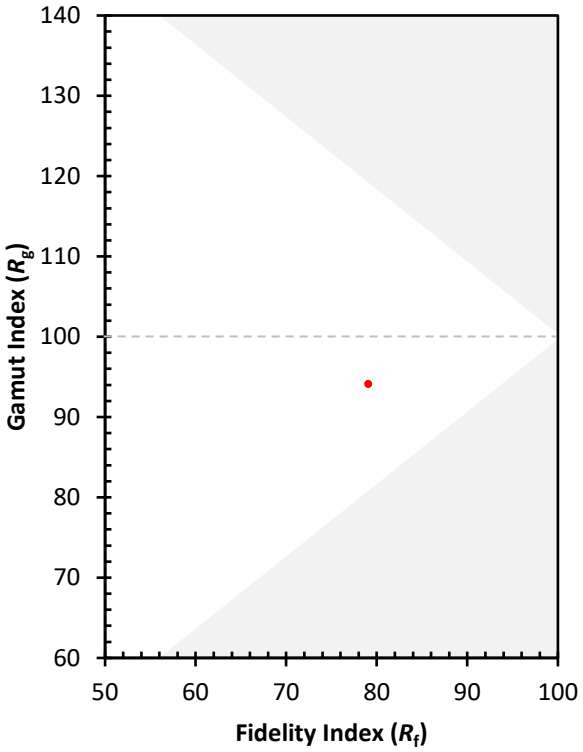



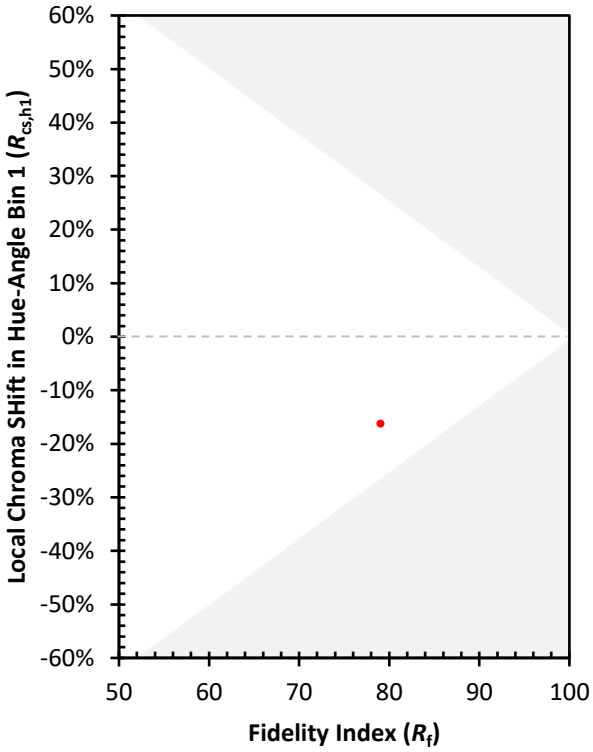



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## Measure Comparisons




(END OF REPORT)