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: P1046612

Luminaire Tested: **FFX-CLB-30-730-U-FR-T3-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: | P1046612 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-30-730-U-FR-T3-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND HOUSESIDE SHIELD |
| Light Source: | (4) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4324.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 141.3 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U3 - 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 |

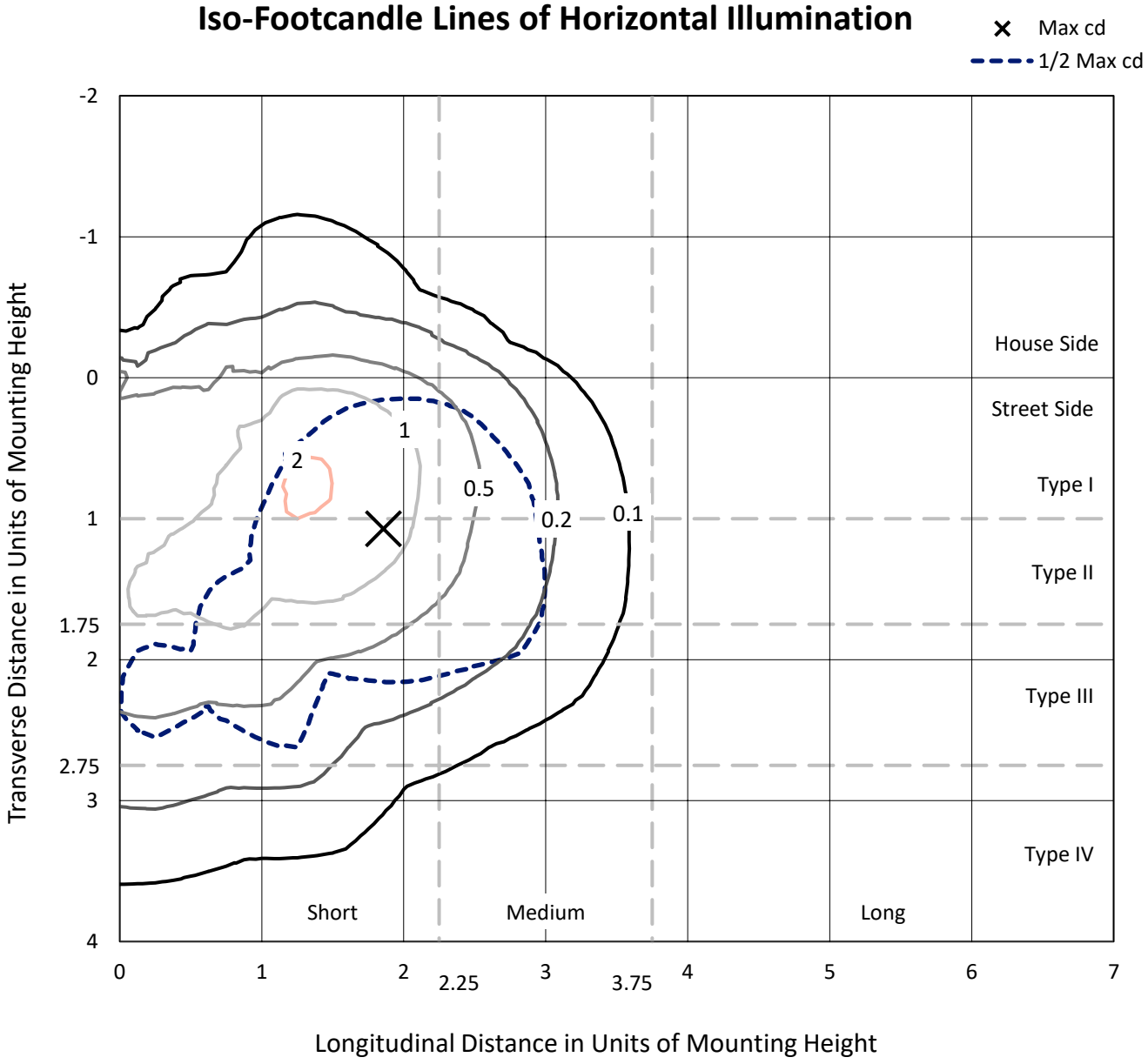


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REPORT NUMBER: P1046612
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## Iso-Footcandle Lines of Horizontal Illumination



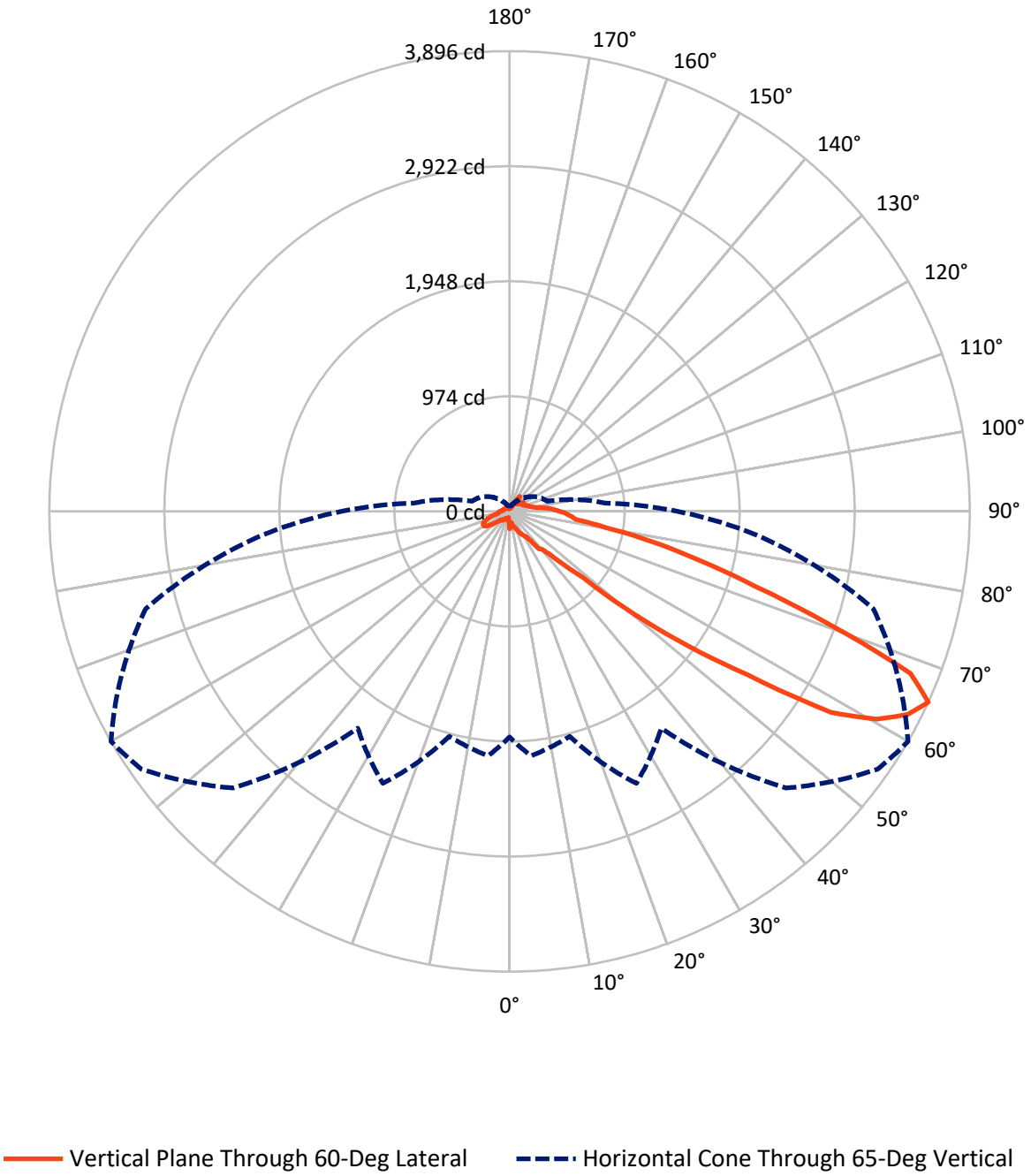

Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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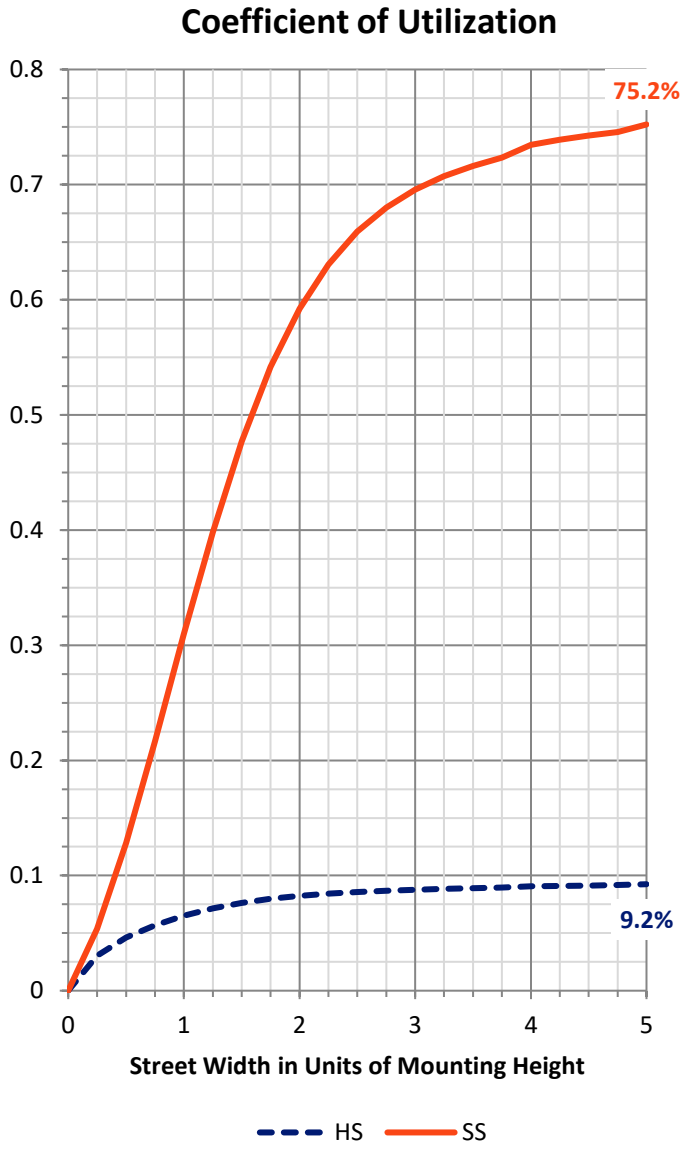
REPORT NUMBER: P1046612
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 419.3 | 135.3 | 554.6 |
| | % Fixture | 9.7 | 3.1 | 12.8 |
| **Street Side** | Lumens | 3369.6 | 400.0 | 3769.6 |
| | % Fixture | 77.9 | 9.2 | 87.2 |
| **Total** | Lumens | 3788.9 | 535.3 | 4324.2 |
| | % Fixture | 87.6 | 12.4 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 7.9 | 0.2 |
| 10°-20° | 27.7 | 0.6 |
| 20°-30° | 59.2 | 1.4 |
| 30°-40° | 121.4 | 2.8 |
| 40°-50° | 284.6 | 6.6 |
| 50°-60° | 890.1 | 20.6 |
| 60°-70° | 1393.7 | 32.2 |
| 70°-80° | 737.3 | 17.1 |
| 80°-90° | 267.0 | 6.2 |
| 90°-100° | 161.0 | 3.7 |
| 100°-110° | 100.8 | 2.3 |
| 110°-120° | 81.5 | 1.9 |
| 120°-130° | 68.0 | 1.6 |
| 130°-140° | 49.5 | 1.1 |
| 140°-150° | 45.5 | 1.1 |
| 150°-160° | 18.9 | 0.4 |
| 160°-170° | 7.6 | 0.2 |
| 170°-180° | 2.4 | 0.1 |
| 0°-90° | 3788.9 | 87.6 |
| 0°-180° | 4324.2 | 100.0 |



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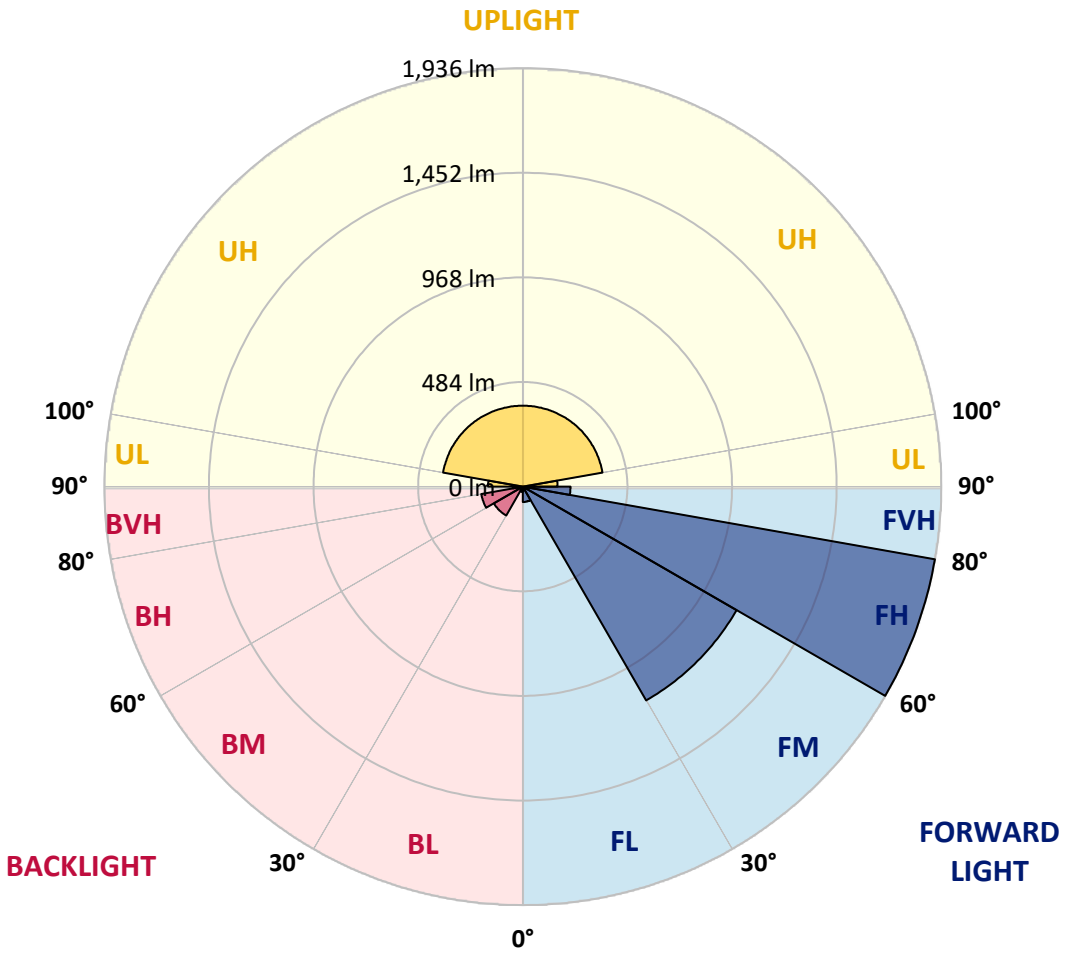
Scaled Data Report

REPORT NUMBER: P1046612
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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°) | 71.3 | 1.6 | | | |
| FM | (30°-60°) | 1141.9 | 26.4 | | | |
| FH | (60°-80°) | 1935.9 | 44.8 | | | G2/5000 |
| FVH | (80°-90°) | 220.6 | 5.1 | | | G2/225 |
| BL | (0°-30°) | 23.5 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 154.2 | 3.6 | B0/220 | | |
| BH | (60°-80°) | 195.2 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 46.4 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 161.0 | 3.7 | | U3/500 | |
| UH | (100°-180°) | 374.3 | 8.7 | | U3/500 | |

**BUG Rating: B1-U3-G2**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 |
| 2.5° | 81.0 | 84.1 | 102.5 | 121.4 | 126.8 | 115.1 | 99.6 | 101.5 | 110.1 | 150.9 | 168.9 |
| 5° | 94.9 | 95.8 | 94.2 | 96.5 | 109.7 | 126.5 | 116.7 | 105.3 | 90.1 | 65.2 | 64.5 |
| 7.5° | 109.1 | 109.1 | 108.5 | 100.6 | 91.4 | 88.6 | 97.1 | 98.7 | 97.1 | 81.0 | 69.9 |
| 10° | 118.9 | 118.9 | 118.6 | 119.2 | 119.9 | 116.7 | 102.8 | 97.4 | 91.7 | 84.8 | 81.6 |
| 12.5° | 144.2 | 144.8 | 149.0 | 146.7 | 138.5 | 130.0 | 131.6 | 130.0 | 121.4 | 106.6 | 94.2 |
| 15° | 176.5 | 177.7 | 178.4 | 170.1 | 156.9 | 141.1 | 130.9 | 128.4 | 126.8 | 118.3 | 105.9 |
| 17.5° | 193.2 | 192.6 | 185.0 | 176.5 | 167.9 | 156.6 | 147.1 | 143.3 | 137.6 | 126.8 | 113.5 |
| 20° | 191.3 | 191.3 | 183.7 | 181.9 | 182.5 | 175.5 | 163.5 | 158.8 | 152.4 | 142.3 | 124.0 |
| 22.5° | 196.7 | 197.0 | 192.3 | 193.9 | 200.8 | 193.9 | 182.2 | 179.0 | 173.0 | 158.4 | 139.8 |
| 25° | 217.3 | 217.3 | 211.9 | 209.7 | 215.7 | 213.2 | 206.5 | 202.7 | 194.2 | 176.5 | 143.6 |
| 27.5° | 235.9 | 234.7 | 229.6 | 230.2 | 224.5 | 223.3 | 221.7 | 220.1 | 212.5 | 184.4 | 145.5 |
| 30° | 250.5 | 250.5 | 246.1 | 248.9 | 236.9 | 238.8 | 233.1 | 237.5 | 227.7 | 195.1 | 152.8 |
| 32.5° | 263.8 | 265.7 | 264.1 | 267.9 | 253.6 | 261.9 | 252.1 | 256.8 | 250.8 | 214.4 | 173.3 |
| 35° | 294.4 | 296.7 | 303.9 | 313.4 | 296.0 | 304.6 | 289.1 | 295.7 | 289.7 | 258.1 | 212.8 |
| 37.5° | 416.2 | 412.7 | 396.9 | 381.4 | 364.7 | 399.8 | 396.0 | 402.3 | 392.8 | 341.9 | 268.8 |
| 40° | 418.7 | 416.8 | 413.7 | 403.9 | 372.2 | 407.0 | 408.6 | 420.0 | 448.5 | 366.9 | 290.6 |
| 42.5° | 429.5 | 431.7 | 469.3 | 474.1 | 450.4 | 504.4 | 489.6 | 490.2 | 587.6 | 434.5 | 375.1 |
| 45° | 496.8 | 496.8 | 508.9 | 514.9 | 507.9 | 663.2 | 661.0 | 642.0 | 764.7 | 542.1 | 441.2 |
| 47.5° | 569.6 | 571.8 | 593.9 | 653.4 | 692.3 | 839.4 | 883.0 | 837.5 | 998.4 | 711.3 | 607.9 |
| 50° | 782.4 | 786.9 | 855.8 | 908.0 | 981.0 | 1228.7 | 1443.4 | 1374.2 | 1626.9 | 1085.1 | 915.9 |
| 52.5° | 936.5 | 991.5 | 1029.4 | 1225.8 | 1254.3 | 1634.8 | 1911.8 | 1888.1 | 2057.6 | 1501.9 | 1111.7 |
| 55° | 1114.5 | 1200.2 | 1225.5 | 1530.1 | 1581.0 | 2109.5 | 2397.0 | 2439.0 | 2449.5 | 1941.5 | 1306.8 |
| 57.5° | 1407.7 | 1540.5 | 1545.3 | 1867.2 | 1876.1 | 2659.1 | 3116.8 | 3209.4 | 3103.8 | 2453.2 | 1614.5 |
| 60° | 1649.3 | 1804.9 | 1752.7 | 2191.1 | 2103.1 | 3103.8 | 3466.9 | 3571.9 | 3375.8 | 2890.6 | 1829.6 |
| 62.5° | 1798.9 | 1949.1 | 1880.5 | 2418.8 | 2239.8 | 3294.5 | 3675.9 | 3783.8 | 3568.1 | 3123.1 | 1995.0 |
| 65° | 1910.5 | 2077.2 | 1971.6 | 2540.2 | 2239.5 | 3311.6 | 3805.0 | 3896.0 | 3665.2 | 3189.8 | 2043.7 |
| 67.5° | 1912.8 | 2062.3 | 1930.5 | 2496.9 | 2090.5 | 3041.2 | 3603.5 | 3661.1 | 3404.9 | 2952.9 | 1898.8 |
| 70° | 1672.1 | 1779.6 | 1633.2 | 2107.3 | 1686.3 | 2308.1 | 2814.1 | 2882.4 | 2624.7 | 2270.1 | 1471.3 |
| 72.5° | 1399.1 | 1441.2 | 1296.0 | 1685.4 | 1320.7 | 1746.7 | 2151.2 | 2176.8 | 2040.5 | 1700.5 | 1137.3 |
| 75° | 1098.7 | 1082.6 | 1007.3 | 1256.5 | 1004.1 | 1237.5 | 1689.5 | 1664.8 | 1589.9 | 1251.5 | 867.8 |
| 77.5° | 733.1 | 703.1 | 706.8 | 862.1 | 701.5 | 818.8 | 1230.3 | 1231.2 | 1205.0 | 927.9 | 618.9 |
| 80° | 447.2 | 448.1 | 435.8 | 546.8 | 463.0 | 544.3 | 847.9 | 820.1 | 820.7 | 612.0 | 433.3 |
| 82.5° | 349.8 | 355.5 | 340.0 | 394.1 | 364.7 | 433.0 | 554.1 | 569.6 | 552.8 | 449.4 | 319.1 |
| 85° | 343.5 | 348.5 | 332.4 | 365.9 | 346.6 | 413.7 | 521.2 | 519.9 | 511.1 | 416.8 | 301.7 |
| 87.5° | 314.7 | 320.7 | 308.7 | 332.1 | 317.2 | 383.0 | 479.8 | 473.4 | 464.9 | 392.2 | 287.8 |
| 90° | 265.7 | 276.7 | 268.5 | 297.6 | 277.0 | 329.5 | 417.2 | 414.6 | 410.2 | 346.6 | 256.2 |
| 92.5° | 241.6 | 243.8 | 237.8 | 264.1 | 241.3 | 288.7 | 370.3 | 362.4 | 352.6 | 300.8 | 218.2 |
| 95° | 216.3 | 215.4 | 209.7 | 230.9 | 210.6 | 241.6 | 314.7 | 302.7 | 297.6 | 254.0 | 182.2 |
| 97.5° | 173.3 | 173.6 | 170.8 | 185.3 | 170.8 | 192.9 | 236.2 | 231.8 | 221.7 | 189.8 | 139.5 |
| 100° | 151.8 | 152.8 | 150.9 | 162.2 | 149.9 | 164.1 | 196.7 | 195.8 | 187.5 | 161.9 | 121.8 |
| 102.5° | 143.6 | 143.9 | 146.4 | 153.4 | 141.7 | 152.1 | 179.3 | 179.6 | 174.3 | 150.9 | 114.5 |
| 105° | 137.9 | 137.6 | 139.5 | 145.2 | 135.0 | 142.6 | 167.6 | 167.6 | 160.0 | 142.3 | 108.5 |
| 107.5° | 133.5 | 132.8 | 136.0 | 140.7 | 133.8 | 136.0 | 155.3 | 156.6 | 149.3 | 132.5 | 103.1 |
| 110° | 128.4 | 128.1 | 133.5 | 136.9 | 130.3 | 130.6 | 147.4 | 146.4 | 139.8 | 129.0 | 101.5 |

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REPORT NUMBER: P1046612
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-HSS

**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 130.3 | 132.2 | 138.2 | 128.4 | 118.6 | 119.2 | 132.2 | *133.8* | 129.0 | 118.0 | 96.5 |
| 115° | 128.7 | 130.6 | 138.5 | 124.6 | 110.1 | 113.9 | 124.6 | *125.9* | 118.9 | 109.7 | 90.8 |
| 117.5° | 123.0 | 123.7 | 128.4 | 124.9 | 109.7 | 114.2 | 119.5 | *121.8* | 116.7 | 109.7 | 91.7 |
| 120° | 145.5 | 140.7 | 140.7 | 135.4 | 118.3 | 126.2 | 136.3 | *138.2* | 133.5 | 120.5 | 91.4 |
| 122.5° | 133.8 | 132.2 | 132.5 | 125.6 | 117.0 | 123.7 | 135.7 | *138.8* | 134.7 | 121.8 | 91.4 |
| 125° | 105.3 | 105.6 | 104.1 | 106.3 | 102.8 | 105.0 | 111.3 | *116.4* | 112.6 | 105.6 | 87.0 |
| 127.5° | 95.8 | 95.5 | 93.6 | 103.1 | 92.3 | 96.8 | 102.8 | *105.6* | 101.8 | 93.9 | 78.7 |
| 130° | 93.3 | 93.3 | 98.7 | 108.5 | 102.2 | 100.3 | 98.0 | *100.9* | 100.3 | 95.2 | 78.7 |
| 132.5° | 87.3 | 87.6 | 95.5 | 108.2 | 105.6 | 96.8 | 88.9 | *90.5* | 93.3 | 94.6 | 83.2 |
| 135° | 87.3 | 86.3 | 83.8 | 86.7 | 85.1 | 87.3 | 85.1 | *87.3* | 87.9 | 87.3 | 72.7 |
| 137.5° | 93.0 | 92.3 | 86.0 | 82.2 | 82.5 | 89.5 | 89.8 | *90.8* | 89.8 | 84.8 | 70.5 |
| 140° | 91.1 | 88.9 | 84.4 | 82.9 | 83.2 | 90.5 | 93.3 | *93.9* | 93.0 | 83.2 | 66.4 |
| 142.5° | 87.9 | 87.9 | 89.2 | 91.1 | 93.9 | 127.8 | 118.9 | *127.1* | 127.5 | 117.3 | 68.3 |
| 145° | 126.2 | 127.5 | 123.7 | 119.5 | 129.7 | 153.7 | 144.5 | *153.4* | 159.4 | 148.3 | 94.2 |
| 147.5° | 113.9 | 115.8 | 113.5 | 110.1 | 123.3 | 123.7 | 118.0 | *118.9* | 120.5 | 123.0 | 95.2 |
| 150° | 80.6 | 78.4 | 81.9 | 79.4 | 92.7 | 92.0 | 84.1 | *86.0* | 89.5 | 89.8 | 75.9 |
| 152.5° | 59.8 | 58.8 | 58.2 | 57.9 | 66.7 | 61.4 | 58.5 | *57.6* | 58.2 | 57.9 | 54.4 |
| 155° | 52.8 | 52.8 | 52.5 | 54.1 | 58.8 | 55.0 | 52.2 | *52.5* | 50.9 | 50.0 | 48.1 |
| 157.5° | 41.1 | 40.2 | 41.1 | 44.0 | 45.9 | 42.4 | 41.4 | *40.8* | 40.5 | 38.9 | 39.5 |
| 160° | 33.8 | 33.8 | 34.5 | 36.7 | 38.0 | 35.4 | 33.5 | *32.9* | 32.9 | 32.3 | 34.5 |
| 162.5° | 28.8 | 28.8 | 29.4 | 30.0 | 30.7 | 29.4 | 28.8 | *28.8* | 28.5 | 28.5 | 30.7 |
| 165° | 24.0 | 24.0 | 24.4 | 25.6 | 25.9 | 25.3 | 25.0 | *25.3* | 25.3 | 26.6 | 28.5 |
| 167.5° | 22.1 | 22.1 | 22.5 | 23.1 | 23.4 | 23.1 | 24.0 | *25.0* | 25.9 | 27.2 | 27.8 |
| 170° | 21.2 | 21.2 | 21.5 | 21.8 | 22.5 | 23.1 | 25.0 | *25.6* | 25.9 | 25.6 | 25.6 |
| 172.5° | 21.8 | 21.8 | 21.8 | 22.5 | 23.1 | 24.7 | 26.2 | *26.2* | 25.6 | 25.0 | 25.0 |
| 175° | 22.1 | 21.8 | 22.1 | 22.8 | 23.7 | 24.7 | 25.3 | *25.9* | 25.9 | 25.6 | 25.6 |
| 177.5° | 21.8 | 21.8 | 22.1 | 22.5 | 22.5 | 22.5 | 22.8 | *23.1* | 23.1 | 23.4 | 23.7 |
| 180° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | *21.5* | 21.5 | 21.5 | 21.5 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 | 148.0 |
| 2.5° | 165.4 | 156.2 | 115.8 | 76.9 | 94.2 | 137.6 | 160.3 | 150.2 | 112.0 | 64.5 | 54.7 |
| 5° | 67.7 | 75.9 | 88.6 | 84.8 | 76.2 | 62.6 | 47.1 | 46.8 | 64.8 | 78.7 | 80.0 |
| 7.5° | 65.2 | 59.8 | 56.6 | 62.6 | 58.5 | 40.5 | 34.2 | 28.5 | 30.4 | 44.6 | 42.7 |
| 10° | 80.3 | 78.4 | 73.1 | 59.8 | 44.0 | 36.4 | 34.2 | 34.8 | 37.3 | 33.5 | 33.2 |
| 12.5° | 89.5 | 84.8 | 73.1 | 69.3 | 58.8 | 41.7 | 34.5 | 31.9 | 34.2 | 42.7 | 46.2 |
| 15° | 98.0 | 91.1 | 76.5 | 64.2 | 52.8 | 43.3 | 37.0 | 32.3 | 28.8 | 25.0 | 24.7 |
| 17.5° | 105.6 | 96.8 | 80.6 | 66.7 | 52.5 | 43.3 | 35.7 | 28.1 | 24.4 | 23.1 | 23.1 |
| 20° | 114.8 | 106.6 | 86.0 | 69.6 | 52.8 | 42.4 | 34.5 | 27.8 | 24.4 | 23.1 | 23.1 |
| 22.5° | 127.1 | 113.5 | 91.7 | 70.8 | 53.4 | 42.1 | 33.8 | 28.5 | 25.3 | 23.4 | 23.4 |
| 25° | 130.6 | 120.2 | 95.5 | 75.0 | 56.0 | 43.6 | 35.4 | 29.4 | 25.9 | 24.4 | 24.0 |
| 27.5° | 133.1 | 125.2 | 102.8 | 78.4 | 58.8 | 46.8 | 38.0 | 30.7 | 26.6 | 25.0 | 24.7 |
| 30° | 143.0 | 136.0 | 110.7 | 83.5 | 62.6 | 50.0 | 40.2 | 32.6 | 27.8 | 25.3 | 24.7 |
| 32.5° | 163.8 | 154.0 | 122.4 | 88.6 | 67.4 | 53.4 | 43.0 | 34.5 | 29.1 | 25.9 | 25.3 |
| 35° | 203.7 | 195.8 | 153.4 | 99.0 | 72.4 | 57.9 | 46.5 | 37.0 | 30.7 | 26.9 | 26.6 |
| 37.5° | 249.8 | 237.5 | 186.3 | 115.1 | 75.9 | 61.7 | 50.0 | 39.5 | 32.3 | 28.5 | 27.8 |
| 40° | 257.8 | 222.6 | 165.1 | 105.0 | 76.5 | 63.6 | 53.1 | 42.4 | 34.2 | 29.7 | 28.8 |
| 42.5° | 323.2 | 273.3 | 191.3 | 108.5 | 78.1 | 63.6 | 53.8 | 44.3 | 36.1 | 30.7 | 30.0 |
| 45° | 341.9 | 272.3 | 190.4 | 121.1 | 85.7 | 65.5 | 54.1 | 45.2 | 37.6 | 32.3 | 31.3 |
| 47.5° | 435.8 | 334.0 | 193.2 | 128.7 | 93.6 | 72.1 | 56.3 | 45.9 | 38.0 | 33.2 | 32.9 |
| 50° | 623.0 | 446.6 | 232.5 | 155.3 | 112.3 | 84.1 | 63.3 | 48.1 | 38.6 | 34.2 | 33.8 |
| 52.5° | 769.5 | 530.4 | 249.5 | 186.0 | 143.0 | 106.9 | 75.6 | 53.8 | 39.8 | 34.5 | 33.8 |
| 55° | 914.6 | 632.5 | 281.2 | 219.5 | 170.1 | 128.7 | 93.9 | 62.9 | 43.0 | 35.1 | 34.5 |
| 57.5° | 1136.0 | 759.3 | 320.4 | 252.4 | 201.8 | 149.3 | 105.0 | 71.2 | 46.8 | 35.7 | 34.8 |
| 60° | 1270.4 | 804.3 | 324.5 | 269.1 | 219.8 | 163.8 | 108.8 | 74.3 | 51.6 | 38.3 | 36.7 |
| 62.5° | 1391.2 | 844.7 | 327.3 | 276.7 | 223.0 | 165.4 | 109.1 | 71.8 | 52.5 | 42.1 | 40.2 |
| 65° | *1422.5* | *811.8* | *330.2* | *279.3* | *217.3* | *156.2* | *105.0* | *69.3* | *50.0* | *45.5* | *45.2* |
| 67.5° | 1351.7 | 728.0 | 310.6 | 269.8 | 202.1 | 140.4 | 94.6 | 65.8 | 48.7 | 44.3 | 45.2 |
| 70° | 1053.2 | 578.1 | 284.6 | 248.6 | 174.6 | 118.6 | 84.1 | 61.4 | 48.1 | 42.1 | 41.1 |
| 72.5° | 829.9 | 491.8 | 287.5 | 236.9 | 147.4 | 105.0 | 74.3 | 56.0 | 45.5 | 41.1 | 40.5 |
| 75° | 646.4 | 412.1 | 276.7 | 204.0 | 119.5 | 89.5 | 65.2 | 50.0 | 42.4 | 39.5 | 39.2 |
| 77.5° | 474.1 | 327.0 | 228.3 | 157.2 | 98.7 | 74.6 | 56.9 | 45.9 | 40.2 | 37.6 | 37.3 |
| 80° | 310.9 | 231.2 | 159.1 | 125.6 | 85.1 | 67.4 | 51.9 | 43.0 | 38.6 | 36.4 | 36.1 |
| 82.5° | 264.4 | 205.3 | 141.4 | 115.4 | 78.7 | 64.8 | 50.9 | 42.1 | 38.3 | 35.7 | 35.4 |
| 85° | 254.9 | 210.3 | 144.5 | 119.5 | 75.0 | 62.0 | 49.3 | 41.4 | 37.3 | 35.1 | 34.8 |
| 87.5° | 239.4 | 190.4 | 139.8 | 107.2 | 69.3 | 56.6 | 46.2 | 39.8 | 35.7 | 33.8 | 33.2 |
| 90° | 213.2 | 162.9 | 120.2 | 92.0 | 65.8 | 53.1 | 43.6 | 38.0 | 34.8 | 32.9 | 32.3 |
| 92.5° | 172.0 | 123.7 | 94.6 | 81.3 | 64.2 | 52.8 | 43.3 | 38.0 | 34.8 | 32.9 | 32.3 |
| 95° | 144.5 | 105.9 | 84.8 | 74.3 | 59.8 | 50.0 | 41.4 | 36.7 | 33.8 | 31.9 | 31.9 |
| 97.5° | 114.5 | 88.6 | 75.6 | 66.7 | 53.8 | 45.5 | 39.2 | 35.1 | 32.6 | 30.7 | 30.7 |
| 100° | 101.5 | 82.2 | 71.8 | 62.6 | 50.9 | 43.0 | 38.3 | 34.2 | 31.9 | 29.7 | 29.7 |
| 102.5° | 96.5 | 79.7 | 70.8 | 59.5 | 48.7 | 41.4 | 36.7 | 32.9 | 31.0 | 28.8 | 28.8 |
| 105° | 93.3 | 78.7 | 70.2 | 57.9 | 46.5 | 39.5 | 35.1 | 31.3 | 29.7 | 28.1 | 27.8 |
| 107.5° | 90.1 | 77.5 | 71.2 | 56.9 | 44.6 | 38.3 | 35.1 | 31.0 | 29.1 | 27.8 | 27.8 |
| 110° | 88.6 | 78.1 | 70.8 | 56.0 | 44.0 | 38.0 | 34.8 | 31.3 | 29.7 | 28.5 | 28.1 |

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

Scaled Data Report

REPORT NUMBER: P1046612
CATALOG NUMBER: FFX-CLB-30-730-U-FR-T3-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 84.4 | 74.6 | 67.7 | 53.1 | 43.0 | 37.0 | 33.5 | 31.0 | 28.8 | 27.5 | 27.2 |
| 115° | 80.3 | 68.6 | 62.0 | 50.6 | 40.8 | 35.7 | 32.6 | 30.0 | 27.8 | 26.9 | 26.9 |
| 117.5° | 81.9 | 67.0 | 56.9 | 49.7 | 40.2 | 34.8 | 31.9 | 29.4 | 27.5 | 26.9 | 26.6 |
| 120° | 81.0 | 70.5 | 63.9 | 53.1 | 39.8 | 33.8 | 31.3 | 28.8 | 27.2 | 26.9 | 26.9 |
| 122.5° | 77.5 | 76.2 | 70.2 | 54.1 | 38.6 | 34.2 | 31.9 | 29.7 | 28.1 | 27.2 | 27.2 |
| 125° | 74.6 | 74.0 | 65.5 | 48.7 | 39.5 | 35.4 | 33.5 | 31.3 | 30.4 | 29.4 | 29.1 |
| 127.5° | 68.9 | 62.0 | 54.4 | 46.8 | 40.2 | 36.1 | 34.2 | 32.9 | 31.9 | 30.4 | 30.0 |
| 130° | 69.3 | 63.6 | 56.0 | 47.1 | 38.6 | 35.4 | 34.5 | 33.2 | 31.6 | 29.1 | 28.8 |
| 132.5° | 75.3 | 69.3 | 55.7 | 43.6 | 37.0 | 35.4 | 34.8 | 33.2 | 29.7 | 26.9 | 26.6 |
| 135° | 62.6 | 58.5 | 49.3 | 41.7 | 37.6 | 36.7 | 36.4 | 32.9 | 27.8 | 25.9 | 25.6 |
| 137.5° | 61.0 | 55.0 | 47.4 | 42.1 | 39.2 | 37.3 | 36.1 | 31.6 | 25.9 | 24.0 | 23.4 |
| 140° | 57.6 | 51.9 | 46.5 | 42.7 | 38.0 | 31.6 | 28.8 | 26.6 | 24.0 | 22.5 | 22.1 |
| 142.5° | 57.6 | 52.2 | 44.0 | 37.6 | 32.9 | 29.4 | 27.8 | 25.9 | 23.1 | 20.9 | 20.2 |
| 145° | 68.0 | 61.7 | 53.1 | 47.8 | 42.7 | 37.3 | 31.9 | 26.2 | 21.5 | 18.7 | 18.3 |
| 147.5° | 77.2 | 69.6 | 62.9 | 54.1 | 45.9 | 37.0 | 29.4 | 23.1 | 19.6 | 18.3 | 18.3 |
| 150° | 63.3 | 56.3 | 52.8 | 45.2 | 38.0 | 30.4 | 25.0 | 21.5 | 19.6 | 19.0 | 19.0 |
| 152.5° | 47.4 | 39.8 | 37.3 | 33.2 | 28.8 | 25.0 | 22.5 | 20.6 | 19.9 | 19.6 | 19.6 |
| 155° | 44.3 | 38.0 | 34.8 | 31.0 | 26.6 | 23.4 | 21.8 | 20.9 | 20.2 | 19.9 | 19.9 |
| 157.5° | 38.6 | 35.1 | 31.0 | 28.1 | 25.0 | 22.8 | 21.8 | 21.2 | 20.6 | 20.2 | 20.2 |
| 160° | 34.5 | 31.9 | 28.1 | 25.9 | 23.7 | 22.8 | 22.8 | 22.5 | 21.5 | 21.2 | 21.2 |
| 162.5° | 31.0 | 30.0 | 26.6 | 24.7 | 23.7 | 24.0 | 25.6 | 25.3 | 23.7 | 22.5 | 22.1 |
| 165° | 28.8 | 27.8 | 25.3 | 24.4 | 23.7 | 25.0 | 28.1 | 27.5 | 25.0 | 23.4 | 23.4 |
| 167.5° | 27.5 | 26.9 | 25.0 | 24.0 | 24.4 | 26.9 | 29.7 | 30.0 | 27.8 | 25.6 | 25.3 |
| 170° | 25.3 | 25.3 | 25.0 | 25.3 | 25.3 | 26.6 | 28.1 | 29.1 | 29.1 | 29.7 | 29.4 |
| 172.5° | 25.0 | 25.3 | 26.2 | 26.2 | 25.9 | 26.2 | 27.5 | 29.1 | 30.0 | 31.0 | 31.3 |
| 175° | 25.6 | 25.9 | 26.6 | 26.9 | 26.9 | 27.5 | 29.4 | 30.7 | 31.3 | 31.0 | 31.0 |
| 177.5° | 23.7 | 24.0 | 24.4 | 25.6 | 26.2 | 26.9 | 28.8 | 29.4 | 30.0 | 30.7 | 30.7 |
| 180° | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 |

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: SP1-2501-332-9

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-730-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

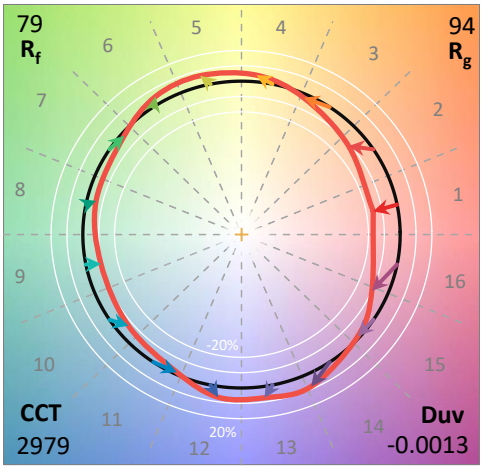
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-9 |
| 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-20-730-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): | 2979 |
| CIE u': | 0.2518 |
| CIE v': | 0.5199 |
| Duv: | -0.0013 |
| CIE x: | 0.4365 |
| CIE y: | 0.4006 |
| CIE z: | 0.1630 |
| Peak Wavelength (nm): | 599 |
| Dominant Wavelength (nm): | 583 |
| Purity: | 51.24251 |
| Rf: | 79.2 |
| Rg: | 94.4 |

| | | | | | |
|---|---|---|---|---|---|
| CRI (Ra): | 75.1 | | | | |
| R1: | 72.0 | R9: | -26.5 |
| R2: | 87.0 | R10: | 72.2 |
| R3: | 93.5 | R11: | 69.1 |
| R4: | 71.3 | R12: | 66.7 |
| R5: | 73.0 | R13: | 75.2 |
| R6: | 83.8 | R14: | 96.7 |
| R7: | 76.4 | R15: | 63.2 |
| R8: | 44.1 | | |




## Test Conditions

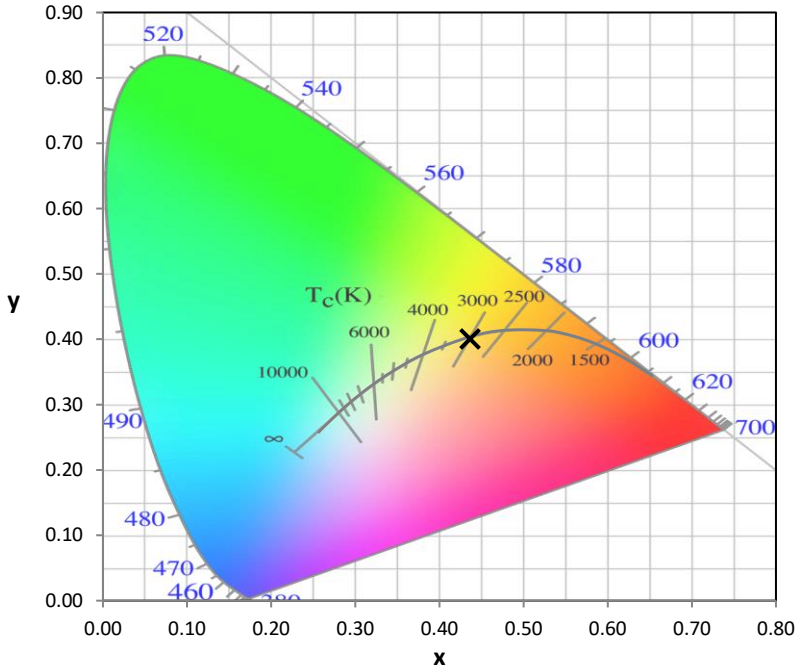
| | |
|---|---|
| Stabilization Time: | 23M |
| Operation Time: | 1H 23M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2501-332-9

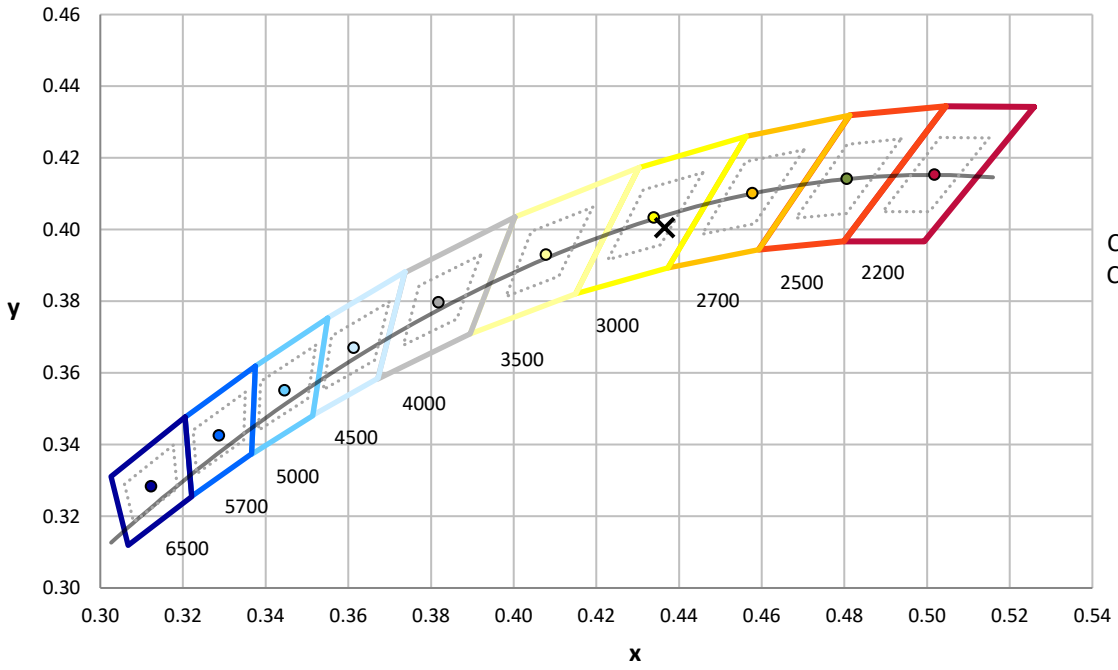
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-9

## CIE 1931 Chromaticity Diagram




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

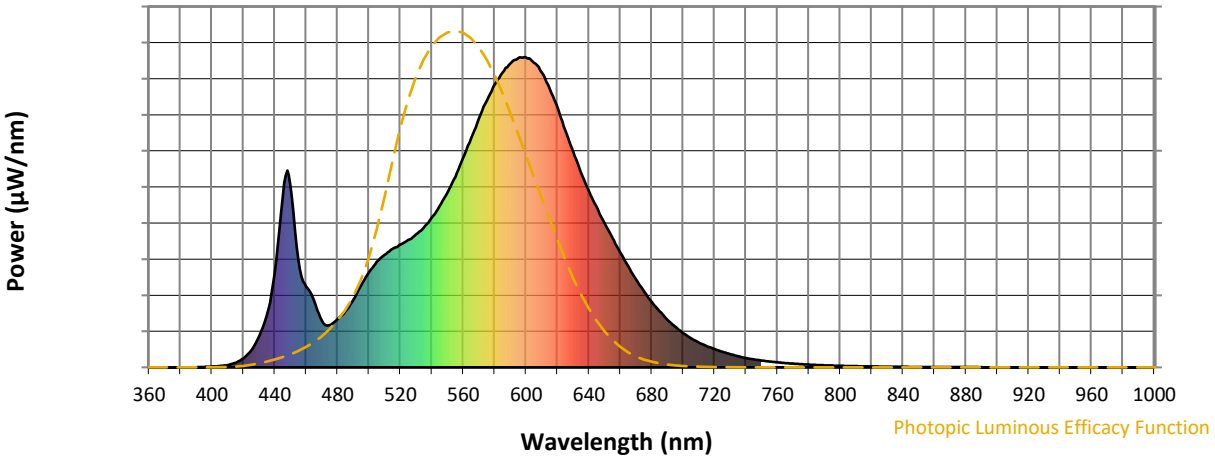



CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

## Photopic Flux vs. Wavelength

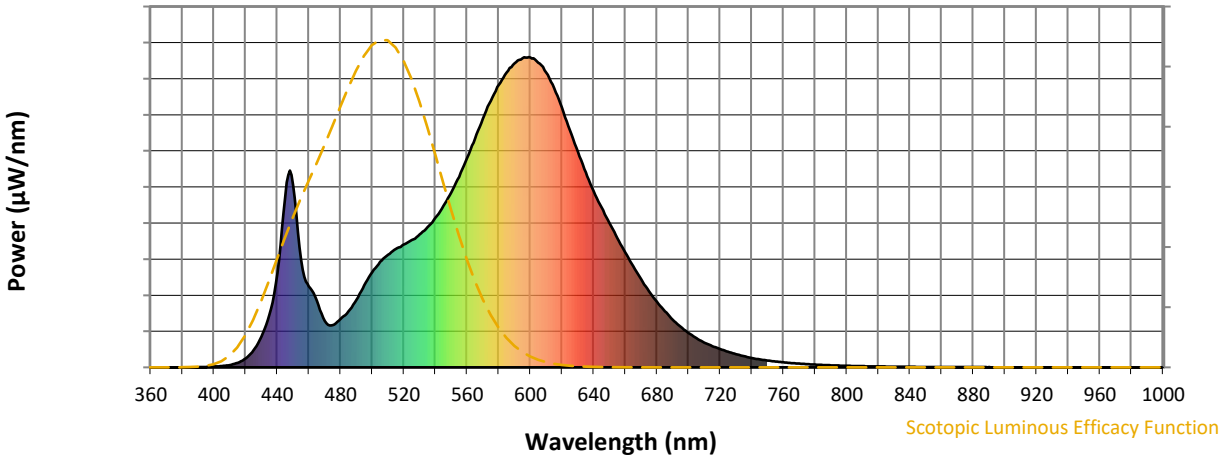



## Photopic Lumens: NR

| 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 | 217 | NR | 620 | 838 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 264 | NR | 625 | 764 | NR | 755 | 19 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 306 | NR | 630 | 696 | NR | 760 | 16 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 340 | NR | 635 | 629 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 568 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 382 | NR | 645 | 516 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 396 | NR | 650 | 465 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 411 | NR | 655 | 417 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 429 | NR | 660 | 370 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 4 | NR | 535 | 452 | NR | 665 | 326 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 8 | NR | 540 | 482 | NR | 670 | 284 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 521 | NR | 675 | 245 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 29 | NR | 550 | 563 | NR | 680 | 211 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 55 | NR | 555 | 614 | NR | 685 | 181 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 99 | NR | 560 | 676 | NR | 690 | 154 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 171 | NR | 565 | 738 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 303 | NR | 570 | 802 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 547 | NR | 575 | 859 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 587 | NR | 580 | 911 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 346 | NR | 585 | 950 | NR | 715 | 69 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 261 | NR | 590 | 980 | NR | 720 | 59 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 216 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 150 | NR | 600 | 998 | NR | 730 | 42 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 137 | NR | 605 | 982 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 156 | NR | 610 | 950 | NR | 740 | 30 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 180 | NR | 615 | 899 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-9

## Scotopic Flux vs. Wavelength

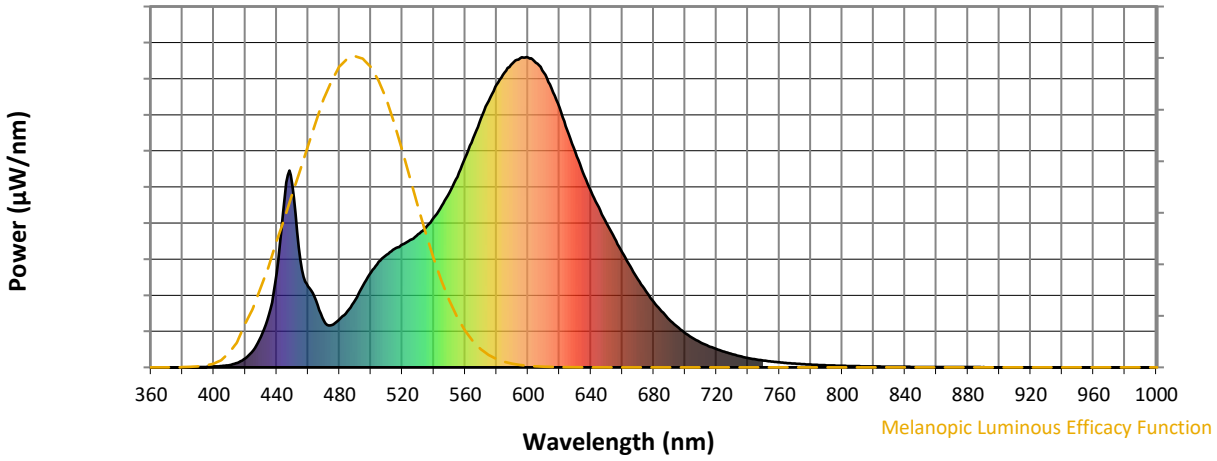



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 217 | NR | 620 | 838 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 264 | NR | 625 | 764 | NR | 755 | 19 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 306 | NR | 630 | 696 | NR | 760 | 16 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 340 | NR | 635 | 629 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 568 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 382 | NR | 645 | 516 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 396 | NR | 650 | 465 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 411 | NR | 655 | 417 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 429 | NR | 660 | 370 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 4 | NR | 535 | 452 | NR | 665 | 326 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 8 | NR | 540 | 482 | NR | 670 | 284 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 521 | NR | 675 | 245 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 29 | NR | 550 | 563 | NR | 680 | 211 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 55 | NR | 555 | 614 | NR | 685 | 181 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 99 | NR | 560 | 676 | NR | 690 | 154 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 171 | NR | 565 | 738 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 303 | NR | 570 | 802 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 547 | NR | 575 | 859 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 587 | NR | 580 | 911 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 346 | NR | 585 | 950 | NR | 715 | 69 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 261 | NR | 590 | 980 | NR | 720 | 59 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 216 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 150 | NR | 600 | 998 | NR | 730 | 42 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 137 | NR | 605 | 982 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 156 | NR | 610 | 950 | NR | 740 | 30 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 180 | NR | 615 | 899 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.45**

| 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 | 217 | NR | 620 | 838 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 264 | NR | 625 | 764 | NR | 755 | 19 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 306 | NR | 630 | 696 | NR | 760 | 16 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 340 | NR | 635 | 629 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 363 | NR | 640 | 568 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 382 | NR | 645 | 516 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 396 | NR | 650 | 465 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 411 | NR | 655 | 417 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 429 | NR | 660 | 370 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 4 | NR | 535 | 452 | NR | 665 | 326 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 8 | NR | 540 | 482 | NR | 670 | 284 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 521 | NR | 675 | 245 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 29 | NR | 550 | 563 | NR | 680 | 211 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 55 | NR | 555 | 614 | NR | 685 | 181 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 99 | NR | 560 | 676 | NR | 690 | 154 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 171 | NR | 565 | 738 | NR | 695 | 131 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 303 | NR | 570 | 802 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 547 | NR | 575 | 859 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 587 | NR | 580 | 911 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 346 | NR | 585 | 950 | NR | 715 | 69 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 261 | NR | 590 | 980 | NR | 720 | 59 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 216 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 150 | NR | 600 | 998 | NR | 730 | 42 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 137 | NR | 605 | 982 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 156 | NR | 610 | 950 | NR | 740 | 30 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 180 | NR | 615 | 899 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

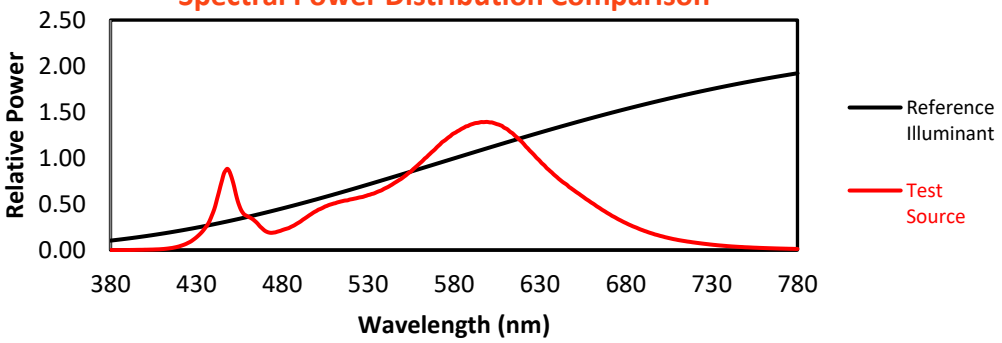
REPORT NUMBER: SP1-2501-332-9

# TM-30-18

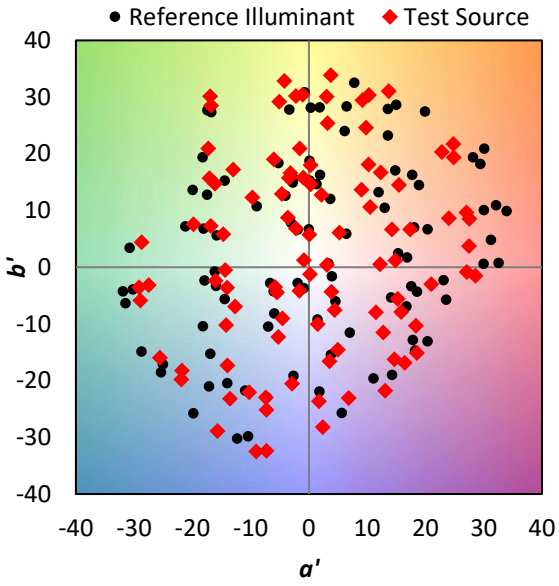
## Summary

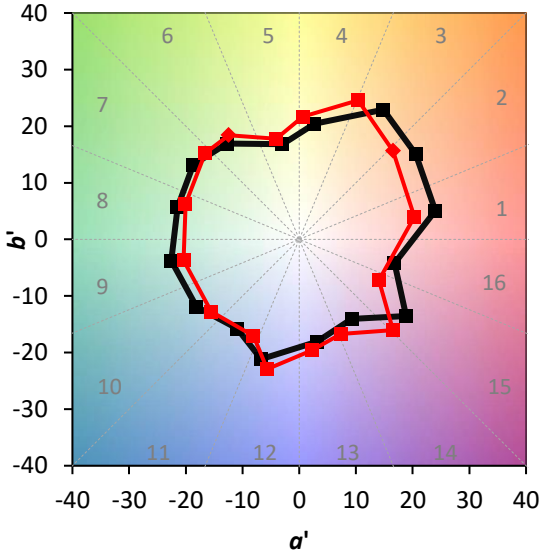
$R_f$ = 79.2
$R_g$ = 94.4
CIE $R_a$ = 75.1
$R_9$ = -26.5

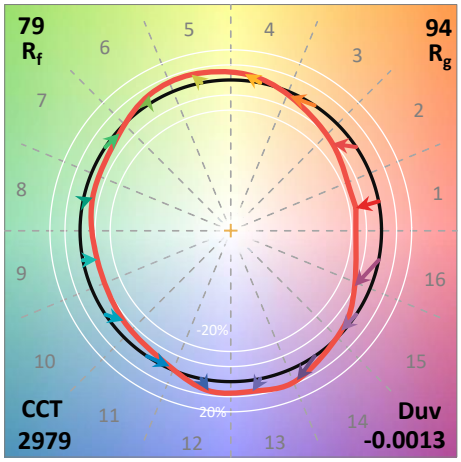
## Spectral Power Distribution Comparison

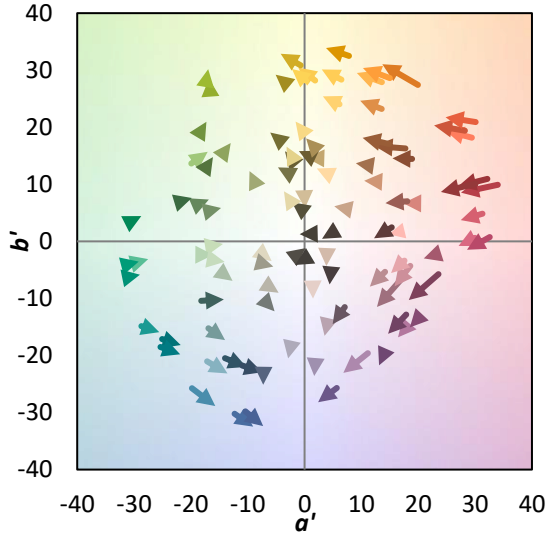



## Color Vector Graphics



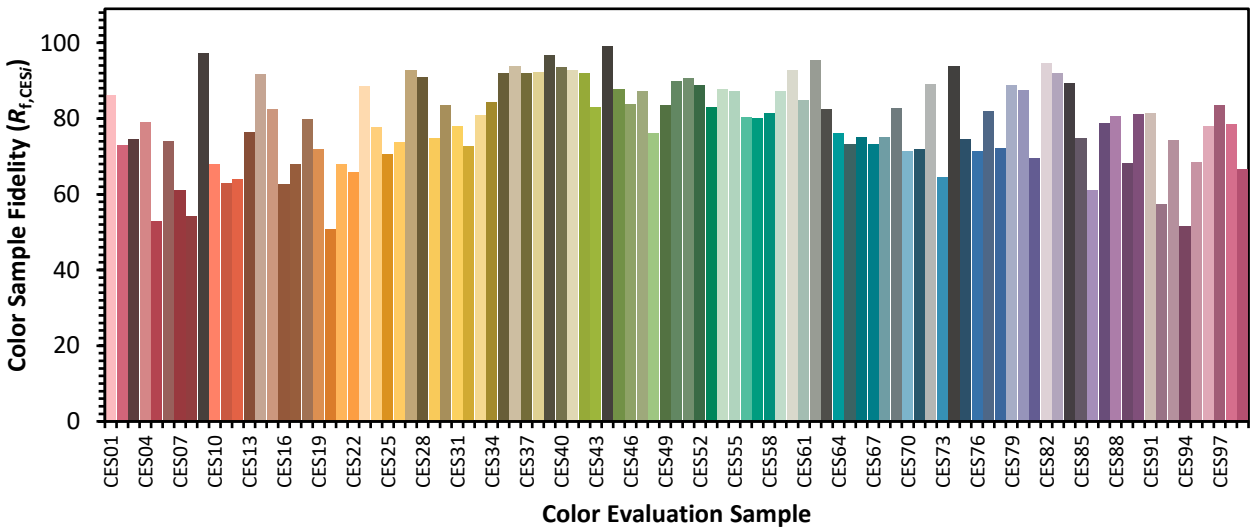



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**Individual Sample Fidelity Index ($R_{f,i}$)**

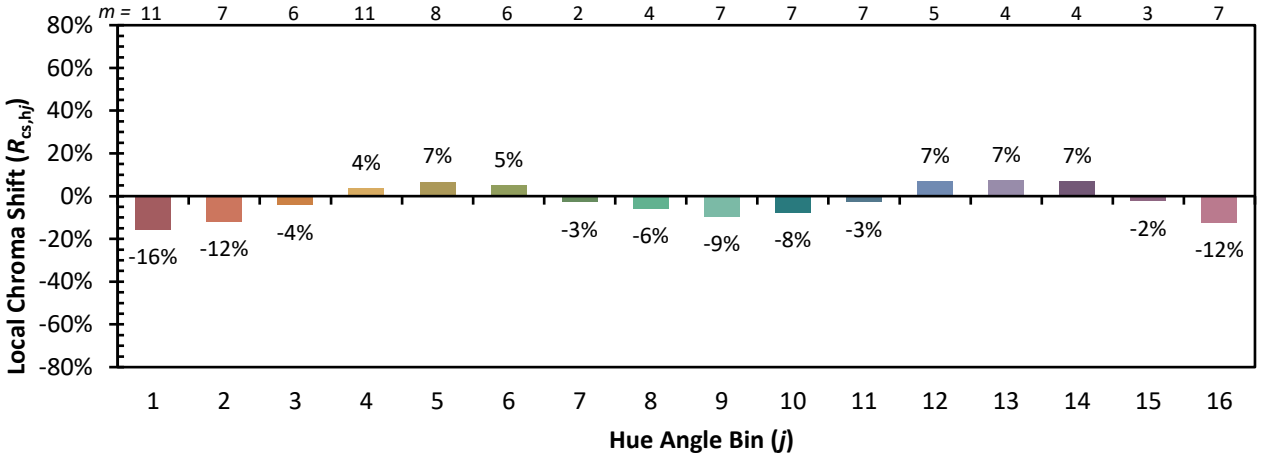
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 91 | CES76 = 71 |
| CES02 = 63 | CES27 = 93 | CES52 = 89 | CES77 = 82 |
| CES03 = 31 | CES28 = 91 | CES53 = 83 | CES78 = 72 |
| CES04 = 71 | CES29 = 75 | CES54 = 88 | CES79 = 89 |
| CES05 = 49 | CES30 = 84 | CES55 = 87 | CES80 = 87 |
| CES06 = 51 | CES31 = 78 | CES56 = 80 | CES81 = 70 |
| CES07 = 42 | CES32 = 73 | CES57 = 80 | CES82 = 95 |
| CES08 = 40 | CES33 = 81 | CES58 = 81 | CES83 = 92 |
| CES09 = 29 | CES34 = 84 | CES59 = 87 | CES84 = 89 |
| CES10 = 76 | CES35 = 92 | CES60 = 93 | CES85 = 75 |
| CES11 = 59 | CES36 = 94 | CES61 = 85 | CES86 = 61 |
| CES12 = 65 | CES37 = 92 | CES62 = 96 | CES87 = 79 |
| CES13 = 43 | CES38 = 92 | CES63 = 82 | CES88 = 81 |
| CES14 = 74 | CES39 = 97 | CES64 = 76 | CES89 = 68 |
| CES15 = 71 | CES40 = 94 | CES65 = 73 | CES90 = 81 |
| CES16 = 47 | CES41 = 93 | CES66 = 75 | CES91 = 81 |
| CES17 = 50 | CES42 = 92 | CES67 = 73 | CES92 = 57 |
| CES18 = 56 | CES43 = 83 | CES68 = 75 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 52 |
| CES20 = 66 | CES45 = 88 | CES70 = 71 | CES95 = 69 |
| CES21 = 87 | CES46 = 84 | CES71 = 72 | CES96 = 78 |
| CES22 = 79 | CES47 = 87 | CES72 = 89 | CES97 = 84 |
| CES23 = 92 | CES48 = 76 | CES73 = 64 | CES98 = 78 |
| CES24 = 91 | CES49 = 84 | CES74 = 94 | CES99 = 67 |
| CES25 = 72 | CES50 = 90 | CES75 = 75 | |

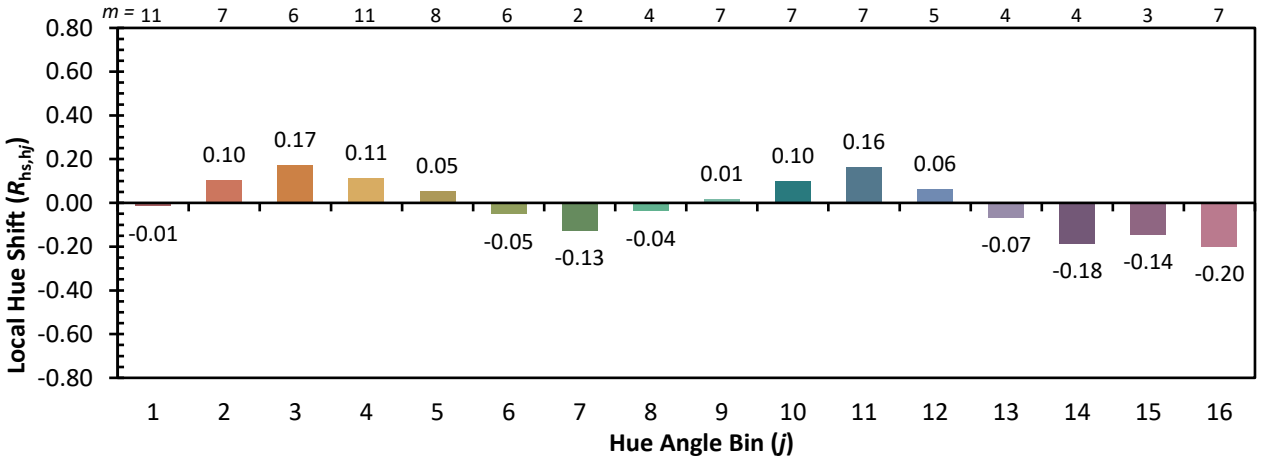


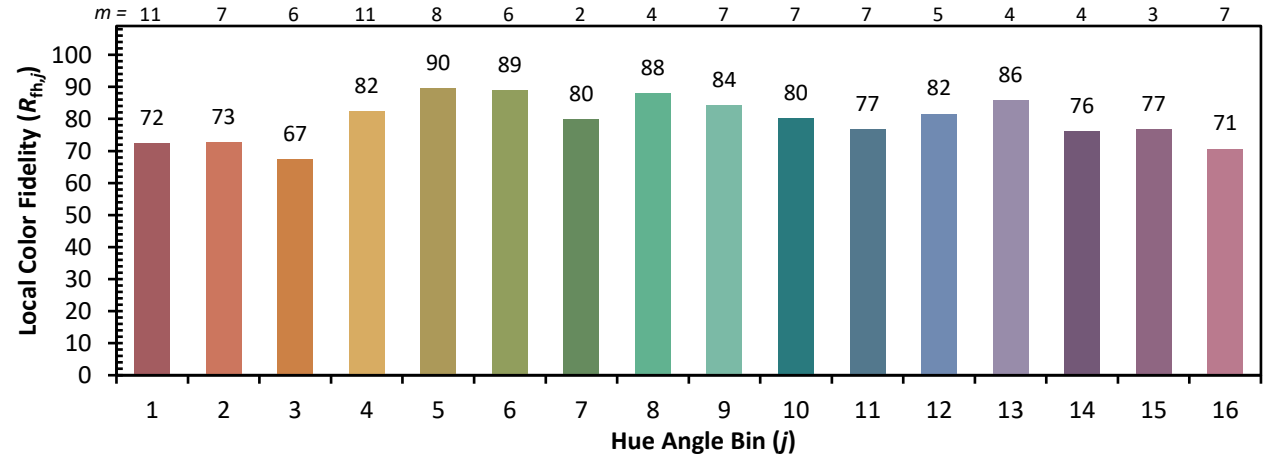
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## Color Rendition by Hue-Angle Bin



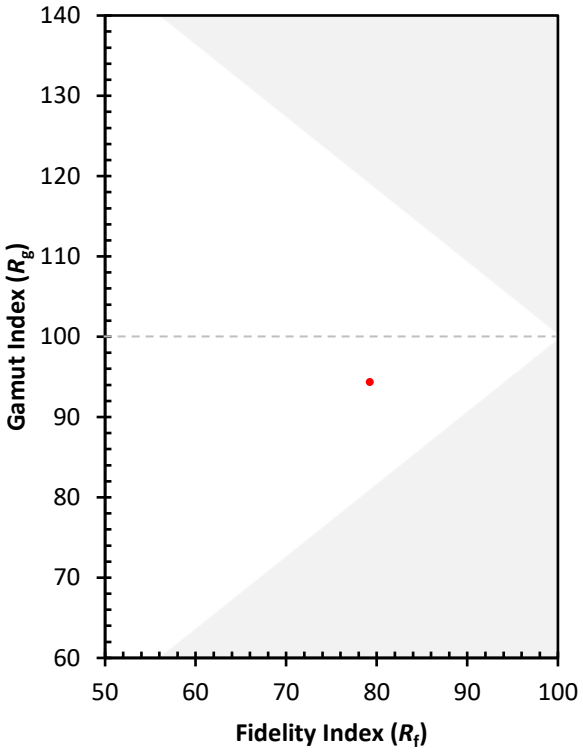



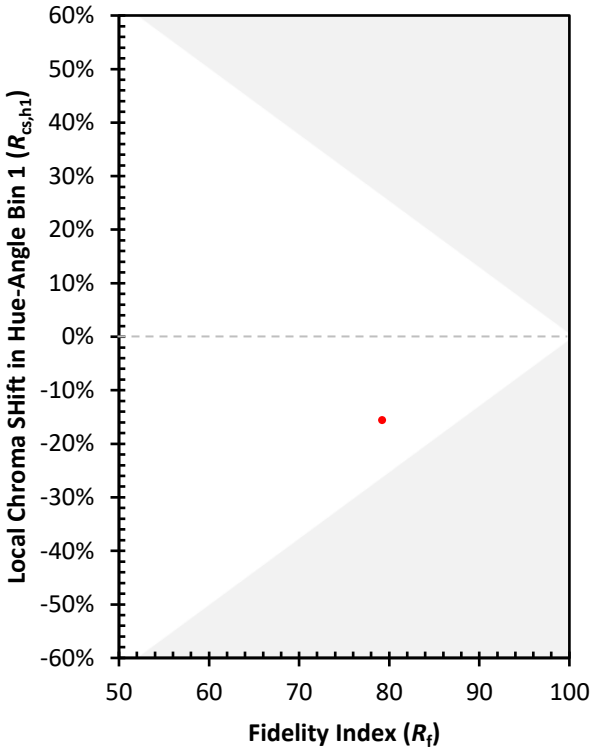



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## Measure Comparisons




(END OF REPORT)