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: P1045756

Luminaire Tested: **FFX-CLB-40-730-U-FR-T5-UPLR-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: | P1045756 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-40-730-U-FR-T5-UPLR-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD |
| Light Source: | (6) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4085.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 103.7 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U3 - G2 |

| | |
|---|---|
| Input Watts (W): | 39.4 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 8.2% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

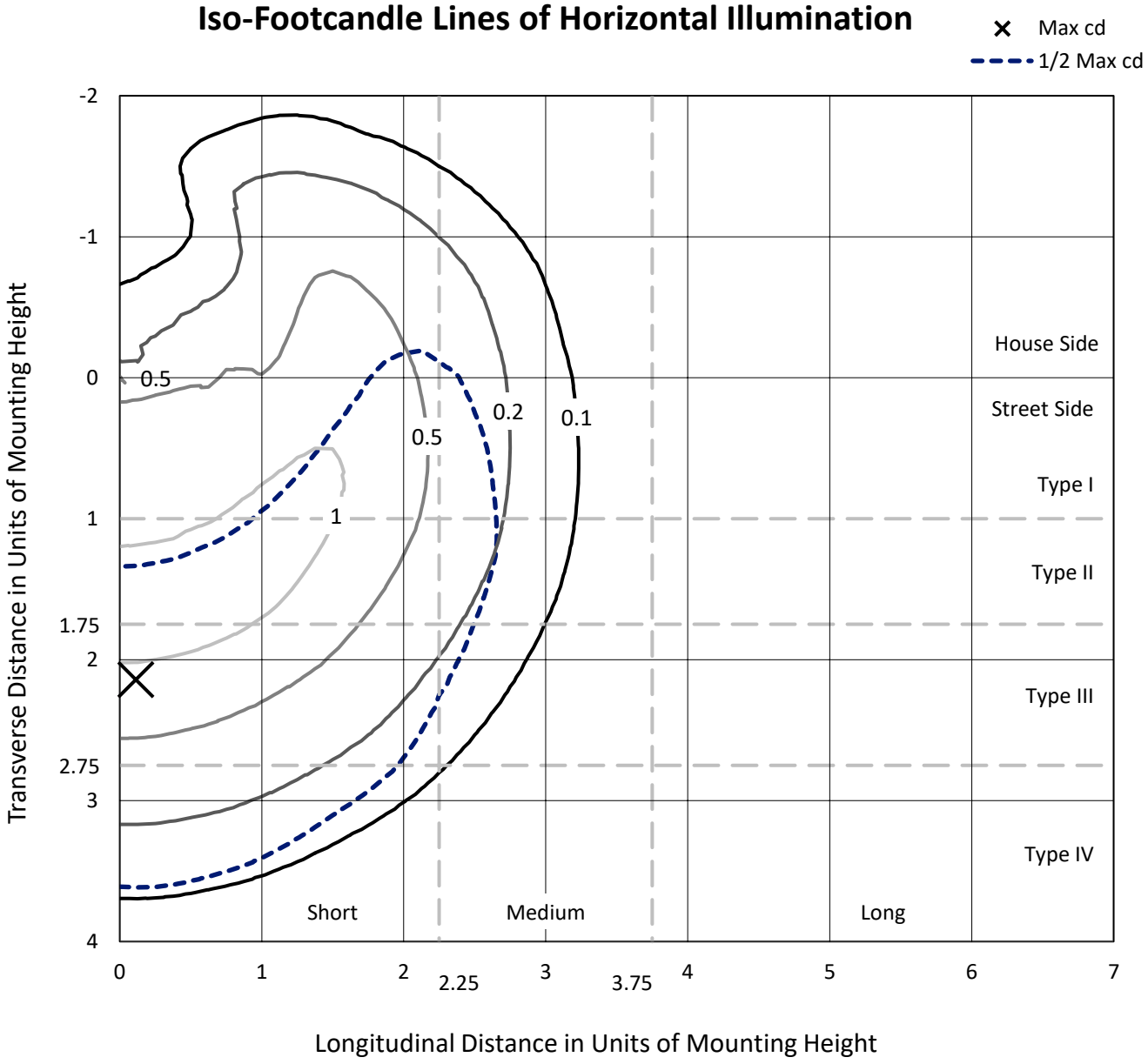


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REPORT NUMBER: P1045756
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## Iso-Footcandle Lines of Horizontal Illumination



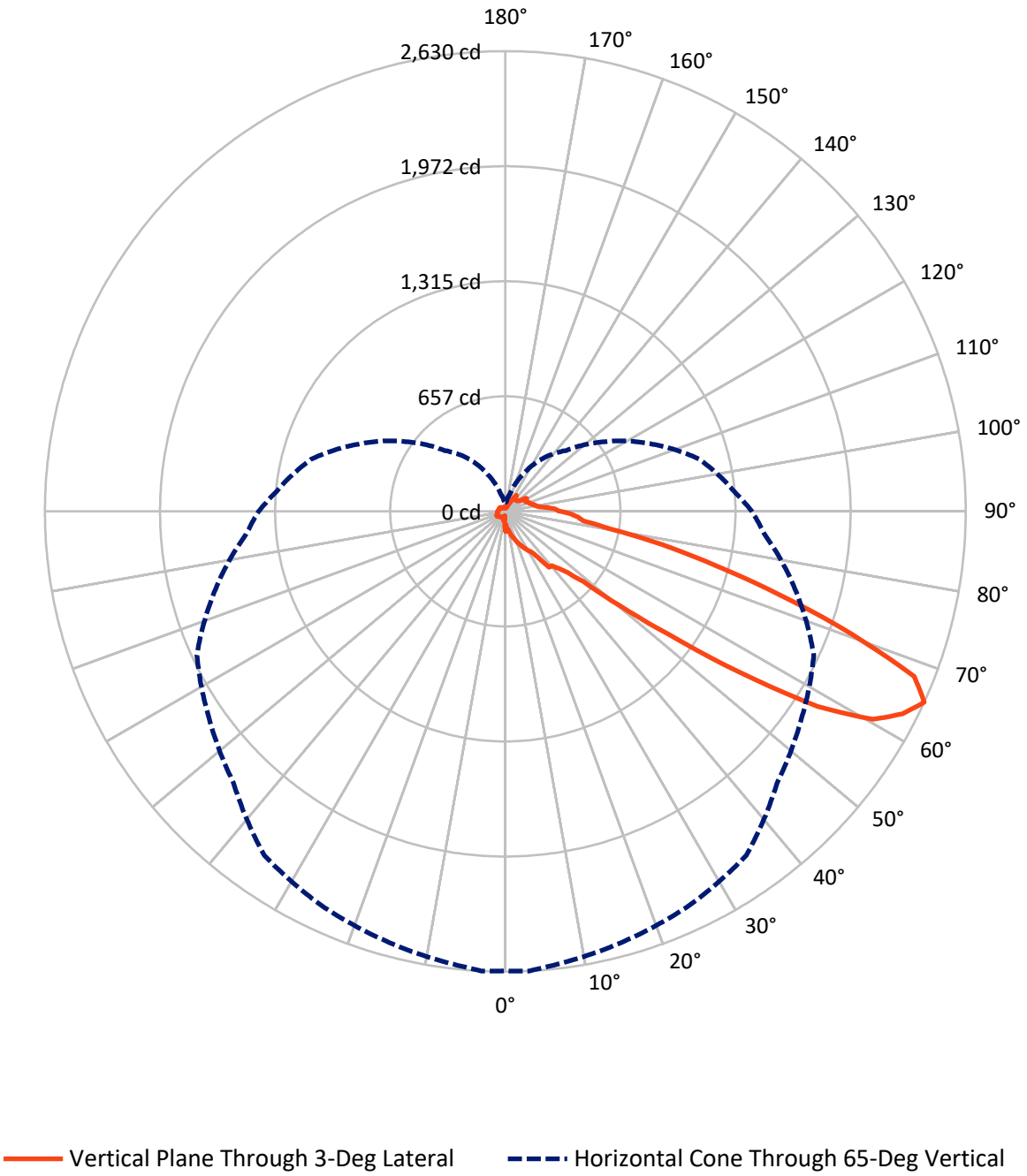

Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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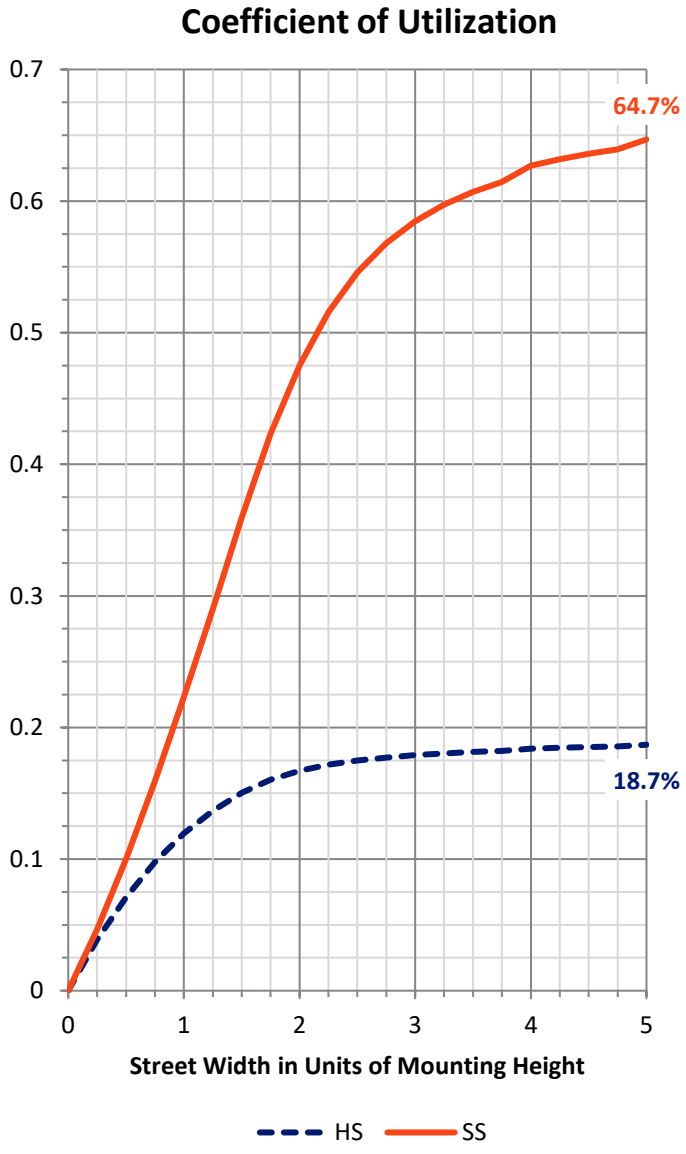
REPORT NUMBER: P1045756
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 790.4 | 171.9 | 962.2 |
| | % Fixture | 19.3 | 4.2 | 23.6 |
| **Street Side** | Lumens | 2756.1 | 367.0 | 3123.1 |
| | % Fixture | 67.5 | 9.0 | 76.4 |
| **Total** | Lumens | 3546.5 | 538.8 | 4085.3 |
| | % Fixture | 86.8 | 13.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 7.3 | 0.2 |
| 10°-20° | 27.8 | 0.7 |
| 20°-30° | 62.1 | 1.5 |
| 30°-40° | 125.5 | 3.1 |
| 40°-50° | 252.1 | 6.2 |
| 50°-60° | 809.1 | 19.8 |
| 60°-70° | 1290.6 | 31.6 |
| 70°-80° | 702.1 | 17.2 |
| 80°-90° | 269.8 | 6.6 |
| 90°-100° | 160.8 | 3.9 |
| 100°-110° | 106.7 | 2.6 |
| 110°-120° | 85.0 | 2.1 |
| 120°-130° | 70.9 | 1.7 |
| 130°-140° | 48.8 | 1.2 |
| 140°-150° | 39.4 | 1.0 |
| 150°-160° | 17.6 | 0.4 |
| 160°-170° | 7.1 | 0.2 |
| 170°-180° | 2.4 | 0.1 |
| 0°-90° | 3546.5 | 86.8 |
| 0°-180° | 4085.3 | 100.0 |



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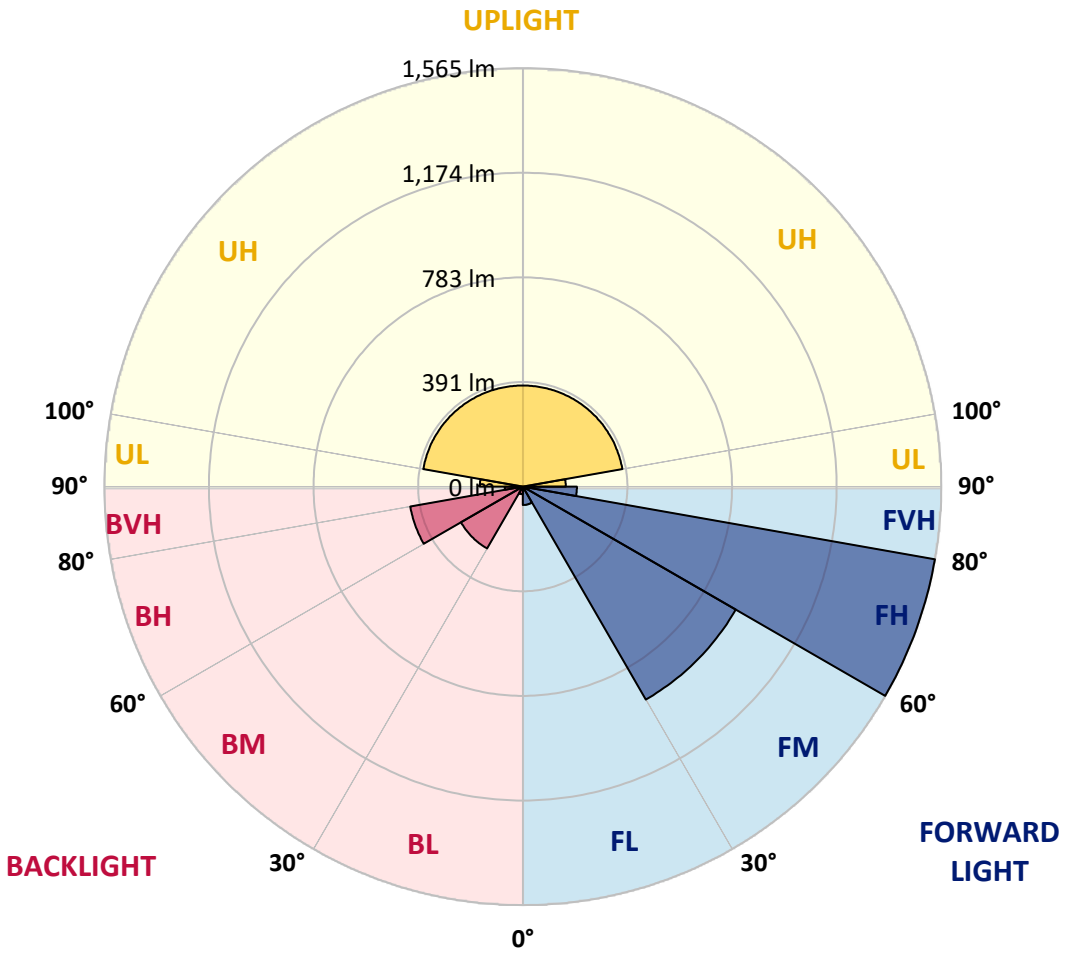
Scaled Data Report

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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°) | 68.9 | 1.7 | | | |
| FM | (30°-60°) | 919.7 | 22.5 | | | |
| FH | (60°-80°) | 1565.2 | 38.3 | | | G1/1800 |
| FVH | (80°-90°) | 202.2 | 5.0 | | | G2/225 |
| BL | (0°-30°) | 28.4 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 267.1 | 6.5 | B1/1000 | | |
| BH | (60°-80°) | 427.4 | 10.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 67.5 | 1.7 | | | G1/100 |
| UL | (90°-100°) | 160.8 | 3.9 | | U3/500 | |
| UH | (100°-180°) | 378.0 | 9.3 | | U3/500 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 3° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 |
| 2.5° | 74.6 | 74.2 | 75.6 | 82.1 | 99.0 | 104.7 | 100.0 | 92.0 | 90.6 | 99.0 | 105.6 |
| 5° | 101.9 | 100.9 | 100.0 | 93.4 | 86.8 | 90.1 | 99.5 | 101.9 | 92.5 | 75.1 | 63.8 |
| 7.5° | 103.3 | 102.3 | 102.8 | 102.8 | 101.4 | 95.3 | 88.2 | 91.5 | 99.5 | 88.7 | 69.9 |
| 10° | 115.0 | 114.5 | 114.5 | 114.1 | 112.7 | 110.8 | 110.3 | 103.3 | 91.1 | 81.7 | 77.9 |
| 12.5° | 134.2 | 134.2 | 133.8 | 133.3 | 131.9 | 128.6 | 124.4 | 118.8 | 115.0 | 103.7 | 92.0 |
| 15° | 149.7 | 148.3 | 149.3 | 147.9 | 145.5 | 143.6 | 138.5 | 132.4 | 121.1 | 113.6 | 103.3 |
| 17.5° | 164.8 | 164.8 | 165.2 | 162.9 | 160.1 | 158.6 | 153.0 | 145.0 | 134.2 | 121.1 | 111.2 |
| 20° | 183.5 | 182.1 | 182.1 | 179.8 | 176.5 | 171.8 | 166.6 | 159.6 | 150.7 | 132.8 | 119.7 |
| 22.5° | 201.4 | 201.8 | 201.8 | 198.1 | 192.9 | 188.7 | 181.6 | 173.2 | 164.8 | 146.4 | 129.5 |
| 25° | 221.5 | 221.1 | 220.6 | 220.1 | 215.0 | 207.5 | 198.5 | 189.6 | 183.5 | 165.7 | 142.2 |
| 27.5° | 240.3 | 239.4 | 238.9 | 241.3 | 236.6 | 229.1 | 215.9 | 205.1 | 198.5 | 180.2 | 154.0 |
| 30° | 261.0 | 260.5 | 260.5 | 261.4 | 259.6 | 247.8 | 233.7 | 221.1 | 211.7 | 193.4 | 165.2 |
| 32.5° | 279.3 | 278.3 | 278.8 | 282.6 | 282.1 | 267.1 | 254.4 | 238.9 | 227.2 | 212.6 | 181.6 |
| 35° | 324.3 | 322.5 | 325.3 | 330.9 | 335.1 | 319.2 | 301.8 | 277.9 | 260.0 | 245.0 | 213.1 |
| 37.5° | 405.5 | 406.0 | 406.9 | 399.4 | 383.5 | 371.7 | 363.3 | 344.1 | 322.0 | 296.6 | 259.1 |
| 40° | 408.8 | 408.4 | 410.7 | 422.0 | 428.5 | 408.4 | 388.6 | 366.1 | 360.5 | 338.9 | 291.0 |
| 42.5° | 446.8 | 444.0 | 446.4 | 457.2 | 466.1 | 453.9 | 436.5 | 398.5 | 377.8 | 358.6 | 319.2 |
| 45° | 501.3 | 498.0 | 502.2 | 504.1 | 502.2 | 489.1 | 491.9 | 460.9 | 441.7 | 402.7 | 347.8 |
| 47.5° | 584.4 | 599.4 | 601.7 | 602.2 | 621.0 | 603.1 | 591.9 | 562.3 | 518.7 | 472.2 | 409.8 |
| 50° | 820.5 | 844.9 | 836.4 | 828.4 | 829.9 | 816.2 | 800.8 | 759.9 | 701.2 | 622.9 | 533.7 |
| 52.5° | 1171.1 | 1161.7 | 1163.1 | 1168.3 | 1181.4 | 1120.9 | 1094.6 | 1033.1 | 938.3 | 844.4 | 715.8 |
| 55° | 1600.1 | 1616.1 | 1615.1 | 1632.0 | 1629.7 | 1564.4 | 1481.3 | 1378.1 | 1240.1 | 1102.6 | 950.5 |
| 57.5° | 2130.5 | 2102.3 | 2083.6 | 2052.6 | 2025.8 | 1937.1 | 1882.2 | 1770.5 | 1587.9 | 1381.4 | 1186.1 |
| 60° | 2428.1 | 2412.6 | 2407.9 | 2365.2 | 2328.6 | 2219.7 | 2106.6 | 1985.5 | 1842.8 | 1598.7 | 1377.1 |
| 62.5° | 2539.8 | 2547.3 | 2540.7 | 2513.0 | 2488.6 | 2393.3 | 2203.2 | 2071.4 | 1943.7 | 1709.0 | 1475.7 |
| 65° | 2625.7 | 2629.9 | 2614.9 | 2552.0 | 2485.3 | 2399.9 | 2195.3 | 2065.3 | 1944.2 | 1713.2 | 1485.1 |
| 67.5° | 2520.5 | 2519.6 | 2507.9 | 2417.3 | 2304.6 | 2220.1 | 2034.3 | 1894.4 | 1791.6 | 1598.7 | 1378.6 |
| 70° | 2092.9 | 2095.8 | 2098.1 | 2031.5 | 1908.0 | 1845.1 | 1656.9 | 1536.7 | 1448.0 | 1281.4 | 1123.2 |
| 72.5° | 1638.6 | 1647.0 | 1650.8 | 1598.7 | 1507.2 | 1442.4 | 1316.6 | 1226.5 | 1143.9 | 1011.5 | 887.1 |
| 75° | 1232.6 | 1241.0 | 1238.7 | 1206.3 | 1142.0 | 1124.2 | 1063.1 | 986.2 | 917.2 | 814.4 | 709.2 |
| 77.5° | 924.7 | 917.6 | 915.8 | 884.3 | 820.9 | 825.6 | 808.3 | 764.1 | 710.6 | 650.1 | 576.9 |
| 80° | 612.5 | 606.4 | 594.2 | 605.0 | 599.9 | 584.8 | 556.2 | 533.7 | 512.6 | 476.4 | 436.5 |
| 82.5° | 450.6 | 448.7 | 446.4 | 439.3 | 434.6 | 430.9 | 418.2 | 382.1 | 356.7 | 336.1 | 312.1 |
| 85° | 421.5 | 415.9 | 416.8 | 404.6 | 390.1 | 376.9 | 367.1 | 351.6 | 331.8 | 299.5 | 264.7 |
| 87.5° | 368.0 | 368.0 | 365.2 | 356.7 | 342.2 | 338.9 | 331.8 | 321.1 | 309.3 | 284.4 | 253.5 |
| 90° | 306.0 | 304.2 | 304.2 | 303.7 | 300.4 | 298.1 | 284.4 | 274.6 | 269.4 | 244.5 | 223.0 |
| 92.5° | 282.6 | 281.6 | 279.7 | 277.4 | 268.0 | 266.1 | 252.5 | 239.9 | 228.6 | 213.1 | 196.2 |
| 95° | 229.5 | 231.4 | 227.2 | 226.7 | 222.0 | 219.2 | 208.4 | 202.3 | 194.8 | 182.1 | 166.6 |
| 97.5° | 193.9 | 191.0 | 191.5 | 187.3 | 182.6 | 180.7 | 174.1 | 165.2 | 158.2 | 148.3 | 137.1 |
| 100° | 177.9 | 177.4 | 176.5 | 173.2 | 166.6 | 162.4 | 155.4 | 146.9 | 139.9 | 131.0 | 121.6 |
| 102.5° | 167.6 | 167.1 | 166.6 | 163.8 | 156.3 | 154.0 | 147.4 | 140.8 | 134.7 | 126.7 | 114.5 |
| 105° | 157.2 | 156.8 | 155.8 | 152.5 | 147.9 | 145.5 | 139.4 | 135.6 | 129.5 | 122.5 | 110.8 |
| 107.5° | 147.9 | 147.9 | 147.4 | 143.6 | 140.8 | 138.9 | 132.8 | 129.5 | 123.0 | 116.9 | 105.6 |
| 110° | 143.2 | 143.2 | 142.7 | 139.9 | 134.2 | 131.4 | 125.8 | 121.6 | 115.5 | 109.4 | 100.4 |

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Scaled Data Report

REPORT NUMBER: P1045756
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T5-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 0° | 3° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 138.0 | *138.5* | 138.5 | 139.4 | 125.8 | 120.6 | 115.9 | 112.7 | 107.5 | 101.9 | 94.3 |
| 115° | 126.3 | *126.7* | 126.3 | 131.0 | 126.3 | 119.2 | 116.4 | 110.8 | 104.2 | 95.3 | 87.3 |
| 117.5° | 127.2 | *127.2* | 128.1 | 130.5 | 128.1 | 121.6 | 115.5 | 108.4 | 102.8 | 93.9 | 86.8 |
| 120° | 144.1 | *143.2* | 143.2 | 138.5 | 137.5 | 131.4 | 127.2 | 119.7 | 110.3 | 101.4 | 91.5 |
| 122.5° | 138.5 | *138.0* | 138.5 | 131.0 | 130.5 | 129.1 | 127.7 | 126.3 | 114.1 | 108.9 | 96.2 |
| 125° | 110.8 | *109.8* | 109.4 | 106.5 | 111.2 | 108.0 | 107.0 | 110.3 | 102.3 | 97.6 | 90.6 |
| 127.5° | 99.0 | *98.1* | 97.6 | 96.7 | 99.5 | 93.9 | 92.9 | 93.9 | 87.8 | 82.1 | 77.9 |
| 130° | 94.8 | *93.4* | 93.4 | 96.7 | 100.9 | 96.2 | 91.1 | 87.3 | 85.0 | 81.2 | 74.2 |
| 132.5° | 89.7 | *89.7* | 90.1 | 94.3 | 101.9 | 96.7 | 87.3 | 79.8 | 78.9 | 79.3 | 76.0 |
| 135° | 88.2 | *87.8* | 88.2 | 86.8 | 86.4 | 83.5 | 79.3 | 73.2 | 71.8 | 75.6 | 71.8 |
| 137.5° | 90.6 | *90.1* | 89.7 | 85.9 | 81.7 | 79.3 | 78.4 | 74.6 | 70.9 | 68.5 | 64.8 |
| 140° | 89.7 | *89.7* | 89.2 | 88.2 | 85.4 | 80.7 | 79.8 | 76.0 | 72.3 | 68.1 | 63.4 |
| 142.5° | 91.1 | *92.5* | 93.4 | 94.3 | 93.4 | 88.2 | 83.1 | 77.0 | 72.8 | 70.4 | 65.2 |
| 145° | 112.2 | *112.2* | 112.2 | 110.3 | 107.0 | 102.8 | 99.0 | 94.8 | 91.5 | 84.0 | 77.0 |
| 147.5° | 92.9 | *92.9* | 92.5 | 92.9 | 92.9 | 91.1 | 90.6 | 89.2 | 89.7 | 85.9 | 78.9 |
| 150° | 64.3 | *65.7* | 65.7 | 68.1 | 69.0 | 68.1 | 68.1 | 69.0 | 67.6 | 67.1 | 63.4 |
| 152.5° | 52.1 | *51.6* | 50.7 | 51.6 | 51.6 | 52.1 | 52.1 | 51.2 | 50.7 | 50.7 | 48.3 |
| 155° | 46.0 | *46.0* | 46.0 | 45.5 | 44.6 | 45.1 | 45.5 | 45.5 | 44.1 | 43.2 | 41.3 |
| 157.5° | 36.6 | *36.1* | 36.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.6 | 38.0 |
| 160° | 31.0 | *30.0* | 30.5 | 30.5 | 31.0 | 31.4 | 31.0 | 31.4 | 31.4 | 31.9 | 31.4 |
| 162.5° | 25.3 | *24.9* | 24.9 | 25.3 | 25.8 | 26.3 | 26.8 | 26.8 | 27.2 | 28.2 | 28.6 |
| 165° | 22.5 | *22.5* | 22.5 | 23.0 | 23.0 | 23.5 | 23.9 | 24.4 | 25.3 | 26.8 | 27.2 |
| 167.5° | 21.1 | *21.1* | 21.1 | 21.1 | 21.6 | 22.1 | 23.0 | 24.4 | 25.3 | 26.8 | 26.8 |
| 170° | 20.7 | *20.7* | 21.1 | 21.1 | 21.1 | 21.6 | 23.5 | 24.9 | 25.3 | 25.8 | 25.8 |
| 172.5° | 21.6 | *21.6* | 21.6 | 21.6 | 21.6 | 22.5 | 24.9 | 25.3 | 25.3 | 25.3 | 25.8 |
| 175° | 22.5 | *22.5* | 22.1 | 22.1 | 22.5 | 23.0 | 23.5 | 25.8 | 26.8 | 27.2 | 28.2 |
| 177.5° | 21.1 | *21.1* | 21.1 | 21.6 | 21.6 | 22.1 | 22.5 | 23.5 | 23.5 | 24.4 | 25.8 |
| 180° | 23.5 | *23.5* | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 | 115.5 |
| 2.5° | 110.3 | 118.3 | 108.4 | 98.1 | 90.6 | 94.8 | 99.5 | 95.8 | 91.5 | 92.0 | 84.0 |
| 5° | 66.2 | 68.1 | 69.0 | 60.1 | 49.8 | 55.4 | 67.6 | 63.4 | 48.8 | 27.2 | 23.5 |
| 7.5° | 63.8 | 61.0 | 60.1 | 66.7 | 60.5 | 40.4 | 31.4 | 28.6 | 38.0 | 45.5 | 47.9 |
| 10° | 75.6 | 72.3 | 65.2 | 53.5 | 47.4 | 44.6 | 43.7 | 41.8 | 36.1 | 28.2 | 26.8 |
| 12.5° | 86.8 | 83.1 | 76.5 | 70.9 | 62.9 | 52.6 | 46.0 | 44.1 | 47.4 | 53.0 | 53.0 |
| 15° | 98.1 | 92.9 | 84.5 | 77.0 | 70.9 | 59.6 | 51.2 | 43.7 | 42.7 | 44.1 | 44.1 |
| 17.5° | 106.1 | 100.4 | 90.6 | 80.3 | 69.5 | 58.7 | 48.8 | 41.3 | 38.0 | 37.1 | 37.1 |
| 20° | 114.1 | 108.9 | 97.2 | 85.9 | 72.8 | 60.1 | 48.8 | 40.8 | 37.1 | 35.7 | 35.2 |
| 22.5° | 124.4 | 117.8 | 104.7 | 92.5 | 76.5 | 61.0 | 48.3 | 41.3 | 37.1 | 34.7 | 34.3 |
| 25° | 136.1 | 128.6 | 113.6 | 99.0 | 80.3 | 62.0 | 48.8 | 41.8 | 37.6 | 34.7 | 34.3 |
| 27.5° | 145.5 | 137.5 | 123.0 | 106.5 | 85.0 | 64.3 | 50.7 | 42.7 | 38.0 | 35.2 | 34.7 |
| 30° | 156.3 | 147.9 | 131.4 | 114.5 | 90.6 | 68.1 | 54.4 | 45.5 | 39.9 | 36.1 | 36.1 |
| 32.5° | 172.7 | 161.5 | 143.2 | 122.0 | 96.2 | 72.3 | 58.7 | 48.8 | 41.8 | 39.0 | 39.0 |
| 35° | 199.5 | 188.2 | 163.8 | 136.6 | 102.3 | 76.5 | 62.0 | 52.1 | 44.1 | 40.4 | 40.4 |
| 37.5° | 242.2 | 225.3 | 198.1 | 160.5 | 112.2 | 79.8 | 65.7 | 54.4 | 45.5 | 40.4 | 39.4 |
| 40° | 267.1 | 248.3 | 214.0 | 178.4 | 124.4 | 84.0 | 68.5 | 56.3 | 46.5 | 40.8 | 40.4 |
| 42.5° | 294.8 | 273.2 | 229.1 | 183.1 | 132.4 | 93.9 | 72.8 | 58.2 | 47.4 | 42.2 | 41.3 |
| 45° | 323.9 | 303.2 | 263.3 | 207.9 | 151.1 | 107.5 | 79.8 | 62.0 | 50.2 | 44.1 | 43.2 |
| 47.5° | 376.9 | 351.6 | 299.9 | 243.1 | 178.8 | 129.1 | 95.3 | 68.1 | 53.5 | 46.0 | 45.1 |
| 50° | 496.1 | 472.7 | 400.8 | 315.9 | 223.0 | 160.1 | 119.2 | 80.7 | 58.7 | 47.4 | 46.0 |
| 52.5° | 657.6 | 615.8 | 534.6 | 428.1 | 311.2 | 224.4 | 159.1 | 108.9 | 66.7 | 48.8 | 46.5 |
| 55° | 892.3 | 845.8 | 725.7 | 586.7 | 426.2 | 325.7 | 240.8 | 163.8 | 94.8 | 50.2 | 46.0 |
| 57.5° | 1125.6 | 1069.2 | 968.3 | 778.2 | 572.6 | 415.4 | 322.0 | 239.9 | 138.0 | 56.3 | 47.4 |
| 60° | 1292.7 | 1224.1 | 1099.3 | 925.1 | 694.7 | 488.6 | 363.8 | 261.4 | 153.5 | 57.7 | 48.8 |
| 62.5° | 1391.2 | 1305.3 | 1148.6 | 940.6 | 723.8 | 519.1 | 380.7 | 246.9 | 131.9 | 56.3 | 50.7 |
| 65° | *1409.1* | *1311.4* | *1148.6* | *913.9* | *693.7* | *492.4* | *368.0* | *228.1* | *104.2* | *54.0* | *52.1* |
| 67.5° | 1306.7 | 1215.7 | 1078.2 | 839.2 | 615.4 | 422.9 | 316.8 | 187.8 | 79.3 | 52.1 | 51.6 |
| 70° | 1072.5 | 1004.0 | 891.8 | 685.8 | 499.4 | 344.1 | 252.1 | 144.6 | 64.3 | 49.8 | 48.8 |
| 72.5° | 836.9 | 773.5 | 689.5 | 537.9 | 386.3 | 272.7 | 192.4 | 113.1 | 57.3 | 47.9 | 47.4 |
| 75° | 658.5 | 611.1 | 541.7 | 424.8 | 290.5 | 206.5 | 146.0 | 85.4 | 51.6 | 46.9 | 46.0 |
| 77.5° | 538.8 | 507.9 | 436.0 | 324.3 | 216.9 | 153.5 | 108.9 | 68.1 | 49.3 | 46.0 | 45.5 |
| 80° | 419.2 | 393.3 | 348.3 | 242.7 | 155.4 | 115.5 | 85.9 | 60.1 | 47.9 | 45.5 | 45.1 |
| 82.5° | 299.0 | 290.1 | 252.1 | 188.7 | 129.5 | 99.0 | 77.4 | 57.7 | 47.4 | 45.1 | 44.6 |
| 85° | 249.7 | 237.0 | 208.9 | 163.8 | 119.2 | 94.3 | 74.2 | 56.8 | 47.4 | 45.1 | 44.6 |
| 87.5° | 241.3 | 230.0 | 204.2 | 156.3 | 112.2 | 88.7 | 70.9 | 54.9 | 46.5 | 44.1 | 44.1 |
| 90° | 213.1 | 201.8 | 182.1 | 140.8 | 103.3 | 82.6 | 66.2 | 52.1 | 44.6 | 42.2 | 42.2 |
| 92.5° | 188.7 | 182.1 | 163.3 | 129.1 | 99.0 | 79.3 | 63.8 | 50.7 | 43.7 | 41.8 | 41.3 |
| 95° | 159.6 | 154.0 | 139.4 | 116.4 | 92.9 | 75.6 | 62.0 | 49.3 | 42.7 | 40.8 | 40.8 |
| 97.5° | 132.4 | 127.7 | 116.4 | 98.6 | 80.3 | 67.1 | 55.9 | 46.5 | 41.3 | 39.9 | 39.9 |
| 100° | 116.9 | 113.1 | 103.3 | 88.7 | 74.2 | 62.9 | 54.0 | 46.0 | 40.8 | 39.0 | 39.0 |
| 102.5° | 110.8 | 107.0 | 97.2 | 84.0 | 70.4 | 60.1 | 52.6 | 45.1 | 40.4 | 38.5 | 38.0 |
| 105° | 106.1 | 102.3 | 93.4 | 79.8 | 66.7 | 57.3 | 49.8 | 44.1 | 39.4 | 38.0 | 37.6 |
| 107.5° | 101.4 | 97.2 | 88.7 | 75.1 | 63.4 | 54.4 | 47.9 | 42.7 | 39.0 | 37.6 | 37.6 |
| 110° | 96.2 | 92.5 | 84.5 | 71.3 | 61.0 | 52.6 | 46.9 | 42.2 | 39.0 | 37.6 | 37.6 |

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

Scaled Data Report

REPORT NUMBER: P1045756
CATALOG NUMBER: FFX-CLB-40-730-U-FR-T5-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 90.6 | 86.8 | 79.3 | 67.6 | 58.7 | 51.2 | 46.0 | 41.8 | 39.0 | 37.6 | 37.6 |
| 115° | 84.0 | 80.7 | 73.7 | 63.8 | 55.9 | 49.3 | 44.6 | 40.8 | 38.0 | 37.1 | 37.1 |
| 117.5° | 82.1 | 78.4 | 71.3 | 62.4 | 54.9 | 47.9 | 43.7 | 39.9 | 37.6 | 36.6 | 36.6 |
| 120° | 86.4 | 81.2 | 73.7 | 65.2 | 54.9 | 46.9 | 42.7 | 39.4 | 37.1 | 36.1 | 36.1 |
| 122.5° | 92.0 | 87.8 | 79.3 | 63.8 | 53.0 | 46.0 | 41.8 | 39.0 | 36.6 | 36.1 | 36.1 |
| 125° | 86.8 | 84.0 | 76.0 | 59.1 | 51.2 | 45.1 | 41.3 | 39.0 | 37.1 | 36.1 | 36.1 |
| 127.5° | 76.0 | 73.2 | 67.1 | 56.3 | 49.3 | 44.1 | 40.8 | 39.0 | 37.6 | 36.1 | 36.1 |
| 130° | 71.8 | 68.1 | 62.4 | 54.0 | 47.4 | 42.7 | 40.4 | 39.0 | 37.6 | 35.7 | 35.2 |
| 132.5° | 73.7 | 70.4 | 61.5 | 50.7 | 44.6 | 40.8 | 39.0 | 38.0 | 35.2 | 33.3 | 32.9 |
| 135° | 69.5 | 66.2 | 57.3 | 48.3 | 43.2 | 40.4 | 38.5 | 35.7 | 32.9 | 30.5 | 30.5 |
| 137.5° | 62.0 | 58.2 | 53.0 | 46.5 | 42.7 | 41.3 | 39.0 | 35.2 | 31.4 | 29.6 | 29.6 |
| 140° | 61.5 | 57.3 | 52.6 | 46.0 | 41.8 | 38.0 | 35.2 | 31.4 | 28.6 | 27.7 | 27.2 |
| 142.5° | 62.4 | 59.6 | 53.0 | 45.5 | 39.9 | 35.2 | 31.9 | 29.1 | 27.2 | 25.8 | 25.8 |
| 145° | 72.3 | 68.1 | 59.6 | 49.8 | 43.2 | 37.6 | 32.9 | 29.1 | 26.3 | 23.9 | 23.5 |
| 147.5° | 74.6 | 70.4 | 62.9 | 54.4 | 46.0 | 39.0 | 32.4 | 27.7 | 23.9 | 22.1 | 21.6 |
| 150° | 62.4 | 59.6 | 55.4 | 48.8 | 41.3 | 34.3 | 28.6 | 24.4 | 22.1 | 21.1 | 20.7 |
| 152.5° | 47.4 | 46.5 | 43.7 | 39.0 | 33.8 | 29.1 | 25.3 | 23.0 | 21.6 | 21.1 | 20.7 |
| 155° | 40.4 | 39.9 | 37.1 | 33.3 | 29.1 | 25.8 | 23.5 | 22.1 | 21.1 | 21.1 | 20.7 |
| 157.5° | 37.6 | 36.6 | 34.3 | 30.5 | 26.8 | 24.9 | 22.5 | 21.6 | 21.1 | 21.1 | 21.1 |
| 160° | 31.4 | 30.5 | 28.6 | 27.2 | 24.9 | 23.5 | 22.1 | 21.6 | 21.1 | 21.1 | 20.7 |
| 162.5° | 28.2 | 27.2 | 26.3 | 24.9 | 24.4 | 23.9 | 23.5 | 22.5 | 22.1 | 21.6 | 21.6 |
| 165° | 26.8 | 26.3 | 24.9 | 24.4 | 24.4 | 24.9 | 24.9 | 23.9 | 23.0 | 22.1 | 22.1 |
| 167.5° | 26.3 | 25.8 | 24.9 | 24.4 | 25.3 | 25.8 | 26.3 | 25.3 | 24.4 | 23.0 | 22.5 |
| 170° | 26.3 | 26.3 | 25.8 | 25.3 | 25.8 | 26.3 | 26.8 | 26.8 | 26.3 | 25.3 | 25.3 |
| 172.5° | 26.3 | 26.8 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 27.2 | 27.2 | 26.8 | 26.8 |
| 175° | 28.2 | 28.2 | 26.8 | 26.3 | 26.8 | 27.2 | 27.7 | 27.2 | 27.2 | 27.7 | 27.7 |
| 177.5° | 25.8 | 26.8 | 28.6 | 29.1 | 30.0 | 30.0 | 29.1 | 28.6 | 27.2 | 26.8 | 26.8 |
| 180° | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

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

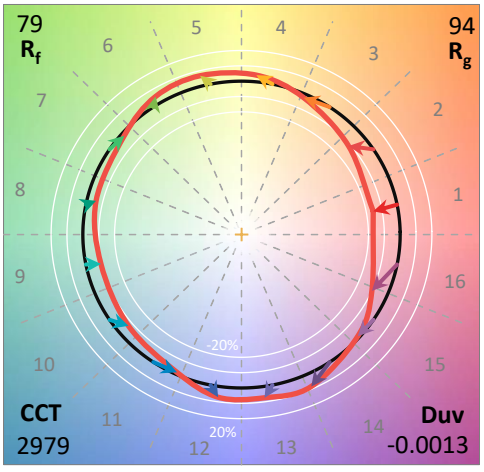
## Test Information

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

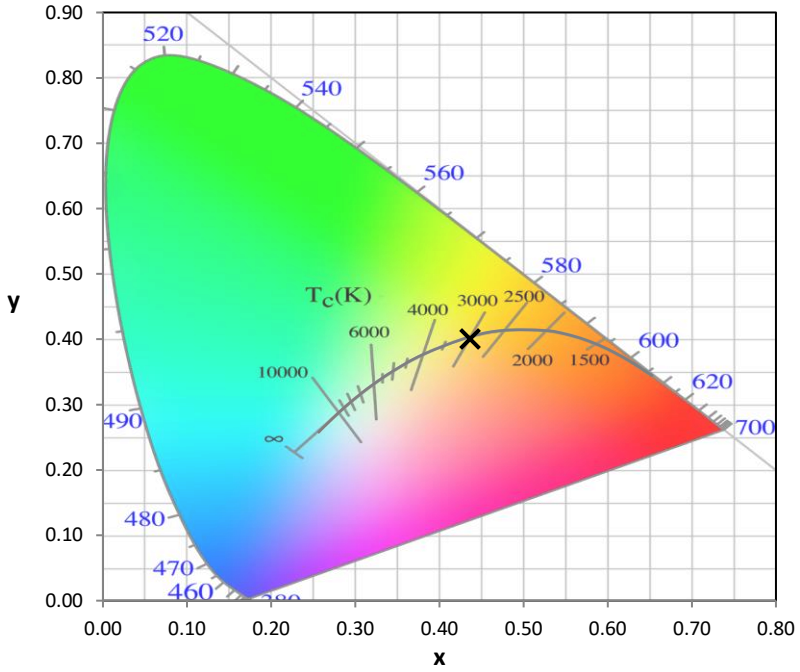
| | |
|---|---|
| Stabilization Time: | 23M |
| Operation Time: | 1H 23M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2501-332-9

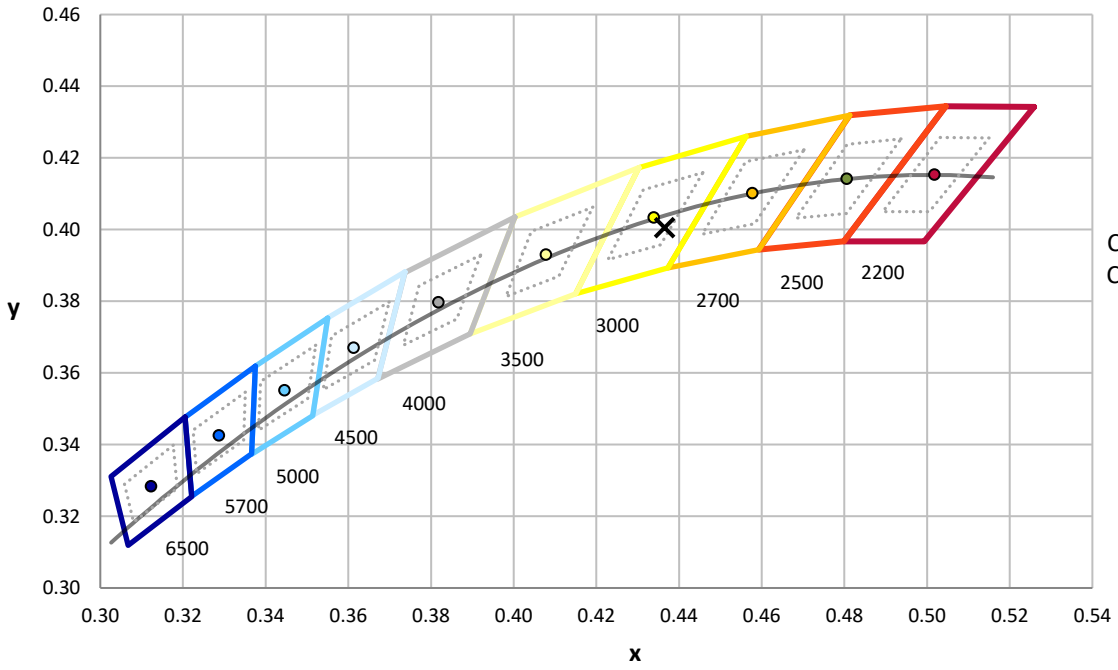
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

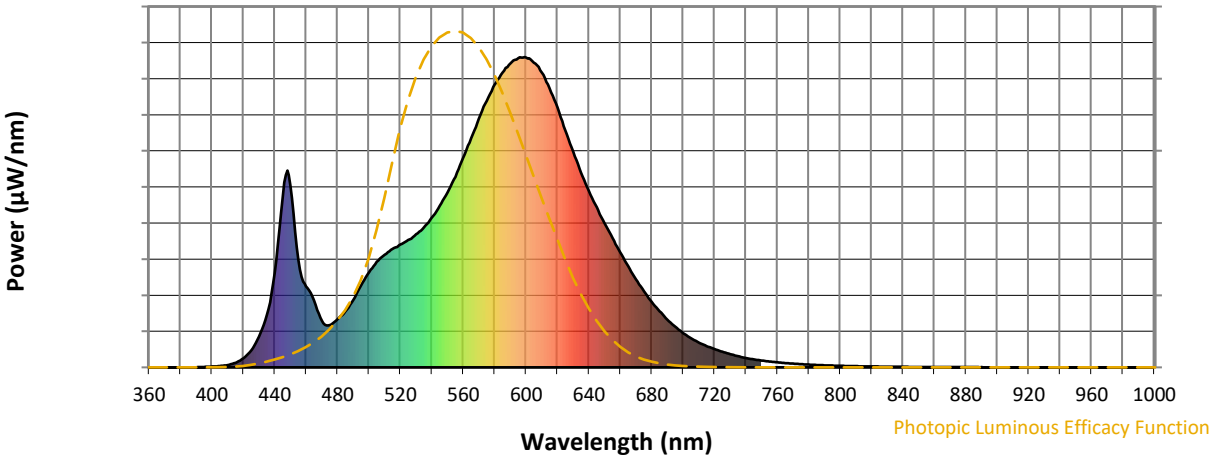



CCT = 2979K
CIE x = 0.4365
CIE y = 0.4006
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-9

## Photopic Flux vs. Wavelength

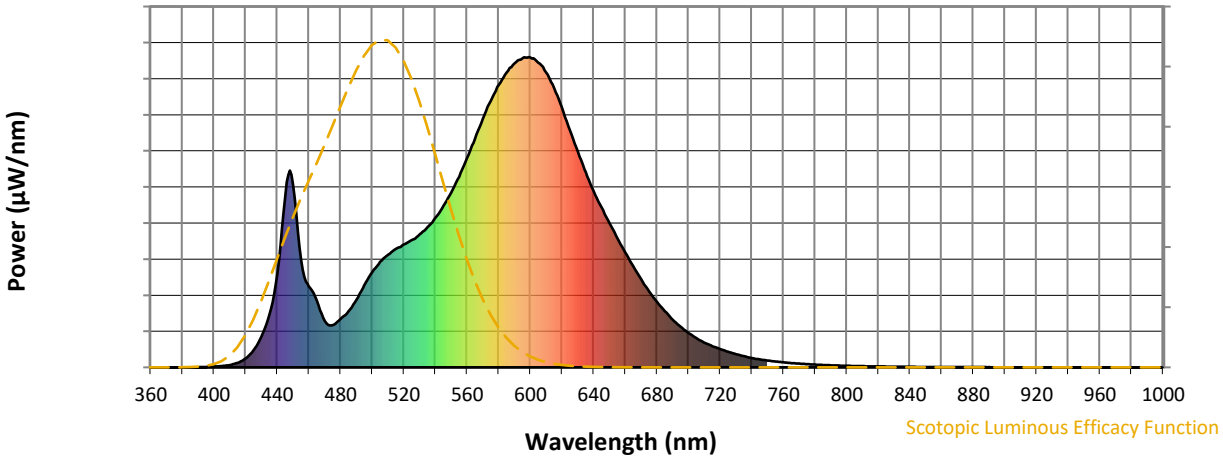



## Photopic Lumens: NR

| 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

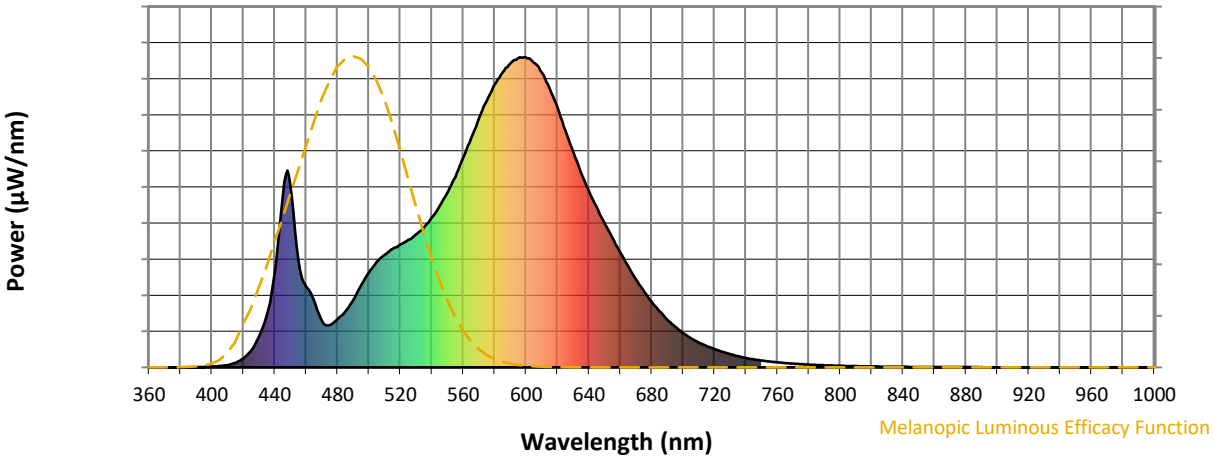



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | | | |

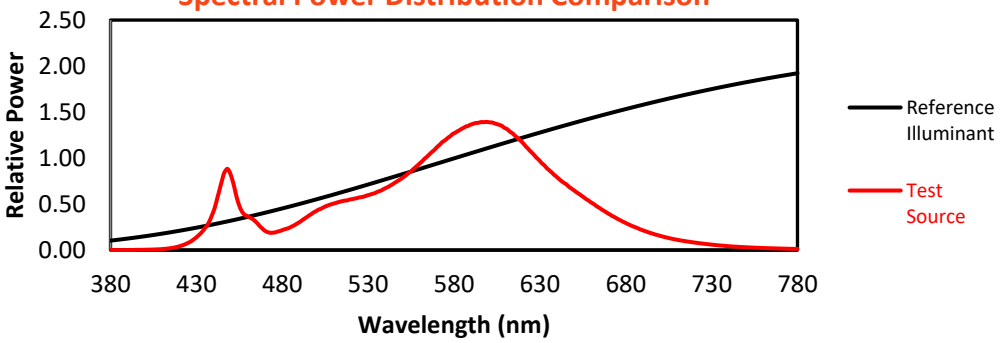
REPORT NUMBER: SP1-2501-332-9

# TM-30-18

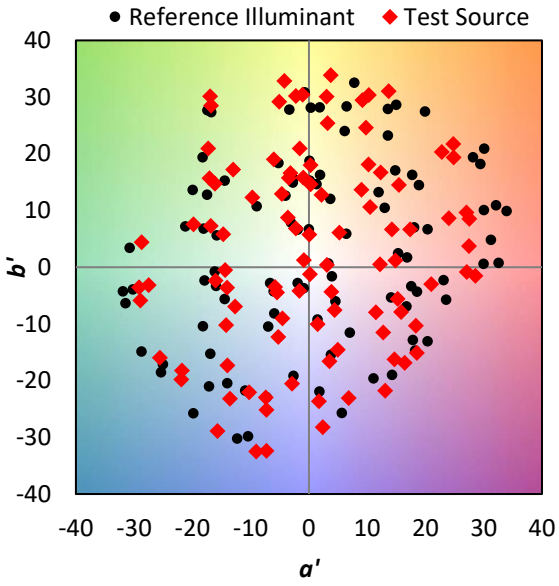
## Summary

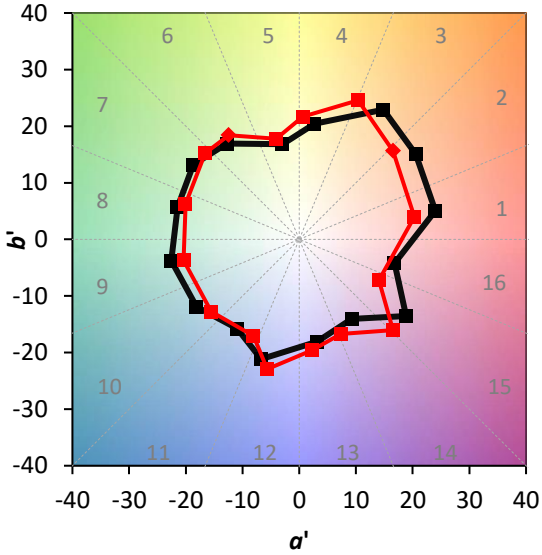
$R_f$ = 79.2
$R_g$ = 94.4
CIE $R_a$ = 75.1
$R_9$ = -26.5

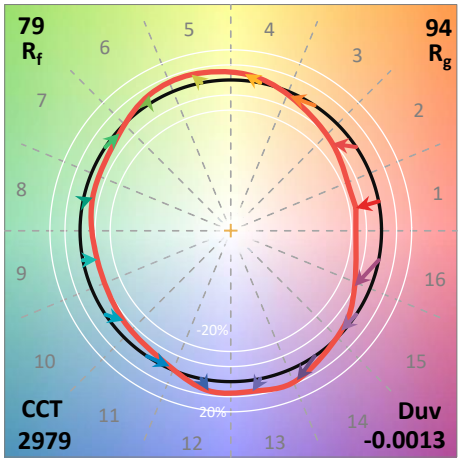
## Spectral Power Distribution Comparison

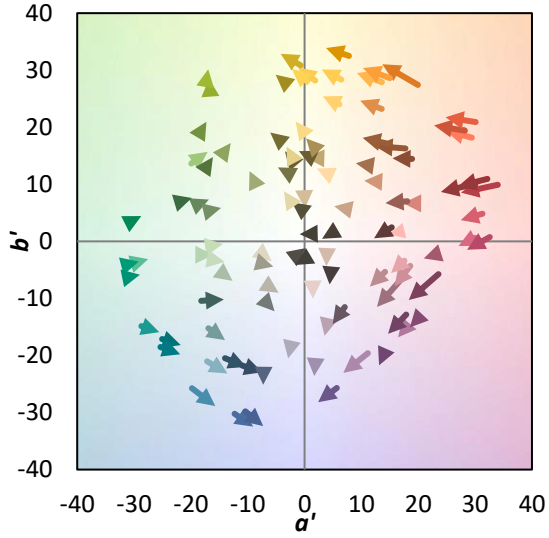



## Color Vector Graphics



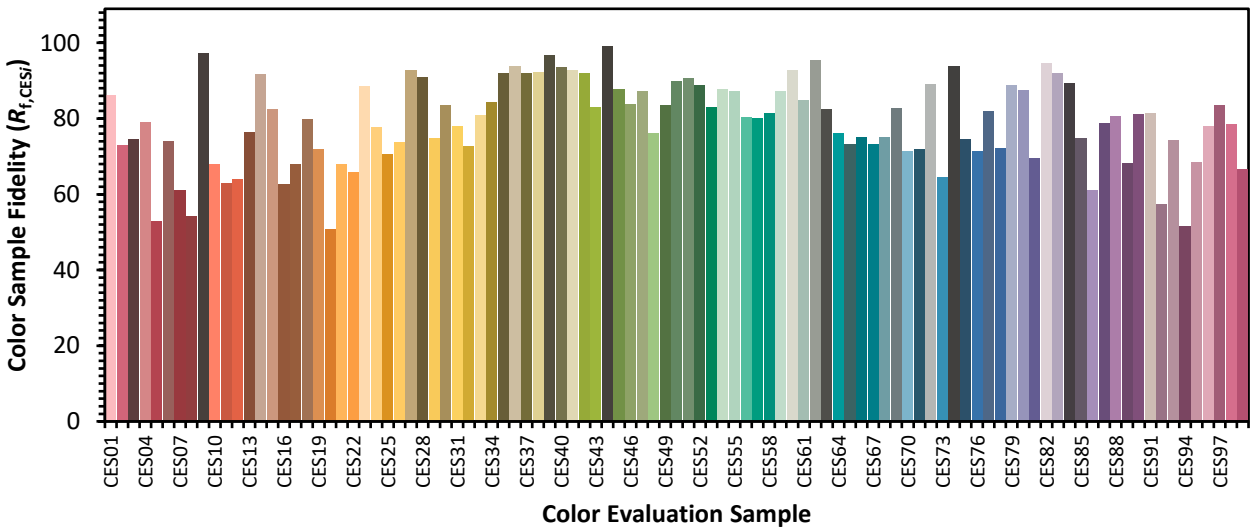



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**Individual Sample Fidelity Index ($R_{f,i}$)**

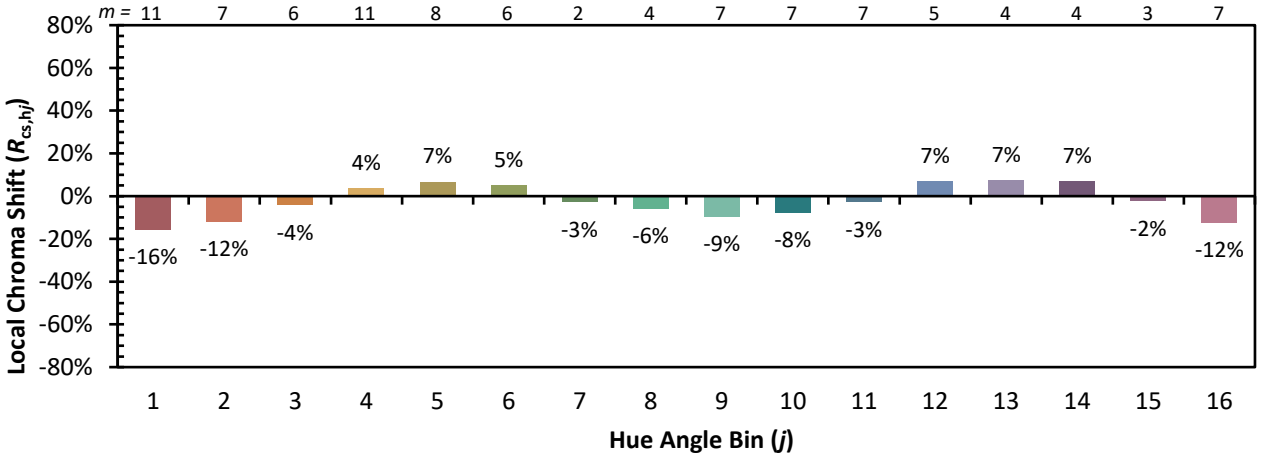
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 91 | CES76 = 71 |
| CES02 = 63 | CES27 = 93 | CES52 = 89 | CES77 = 82 |
| CES03 = 31 | CES28 = 91 | CES53 = 83 | CES78 = 72 |
| CES04 = 71 | CES29 = 75 | CES54 = 88 | CES79 = 89 |
| CES05 = 49 | CES30 = 84 | CES55 = 87 | CES80 = 87 |
| CES06 = 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 | |

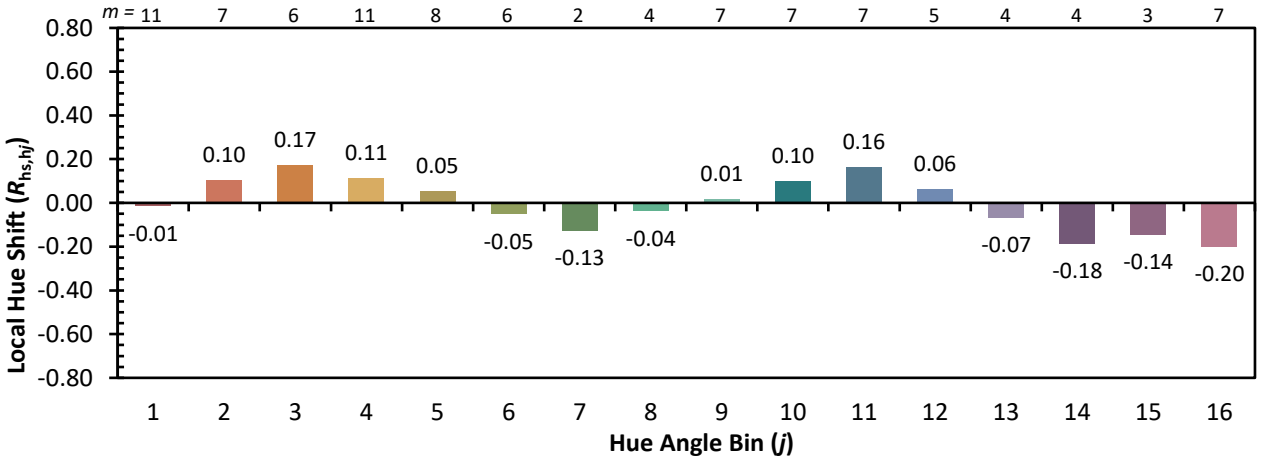


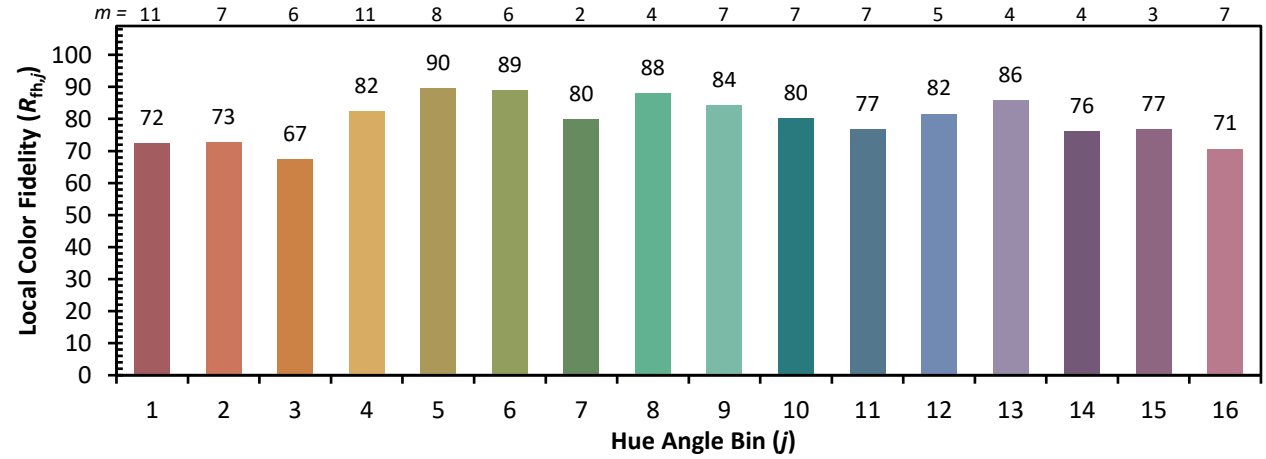
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## Color Rendition by Hue-Angle Bin



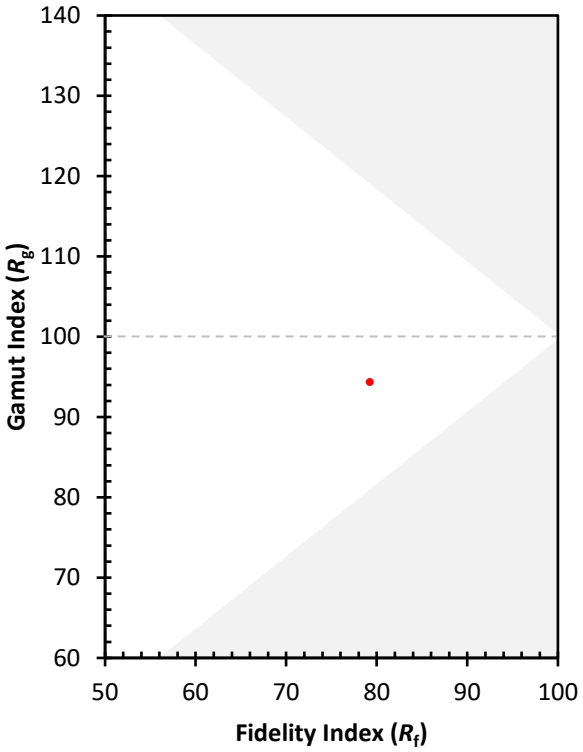



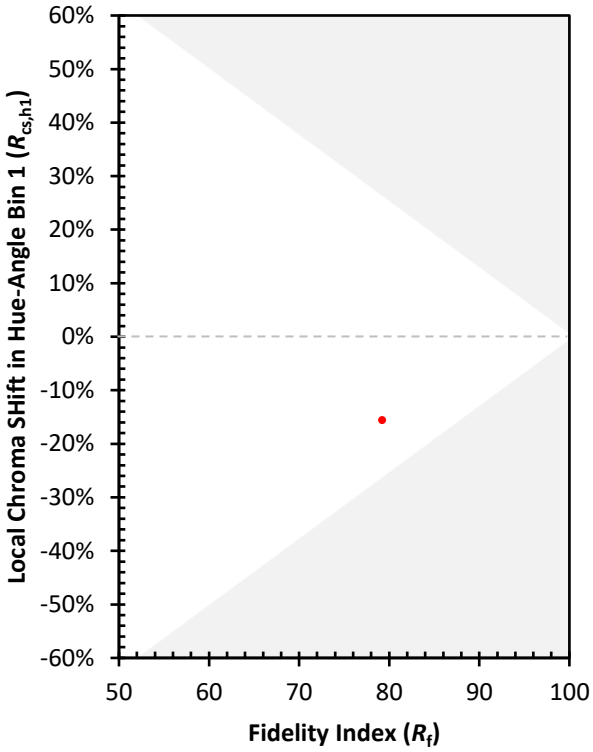



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## Measure Comparisons




(END OF REPORT)