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: P1046451

Luminaire Tested: **FFX-CLB-20-750-U-FR-T4-UPLR**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1046451 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-20-750-U-FR-T4-UPLR |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR |
| Light Source: | (4) 5000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3289.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 166.1 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U3 - G2 |

| | |
|---|---|
| Input Watts (W): | 19.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 9.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

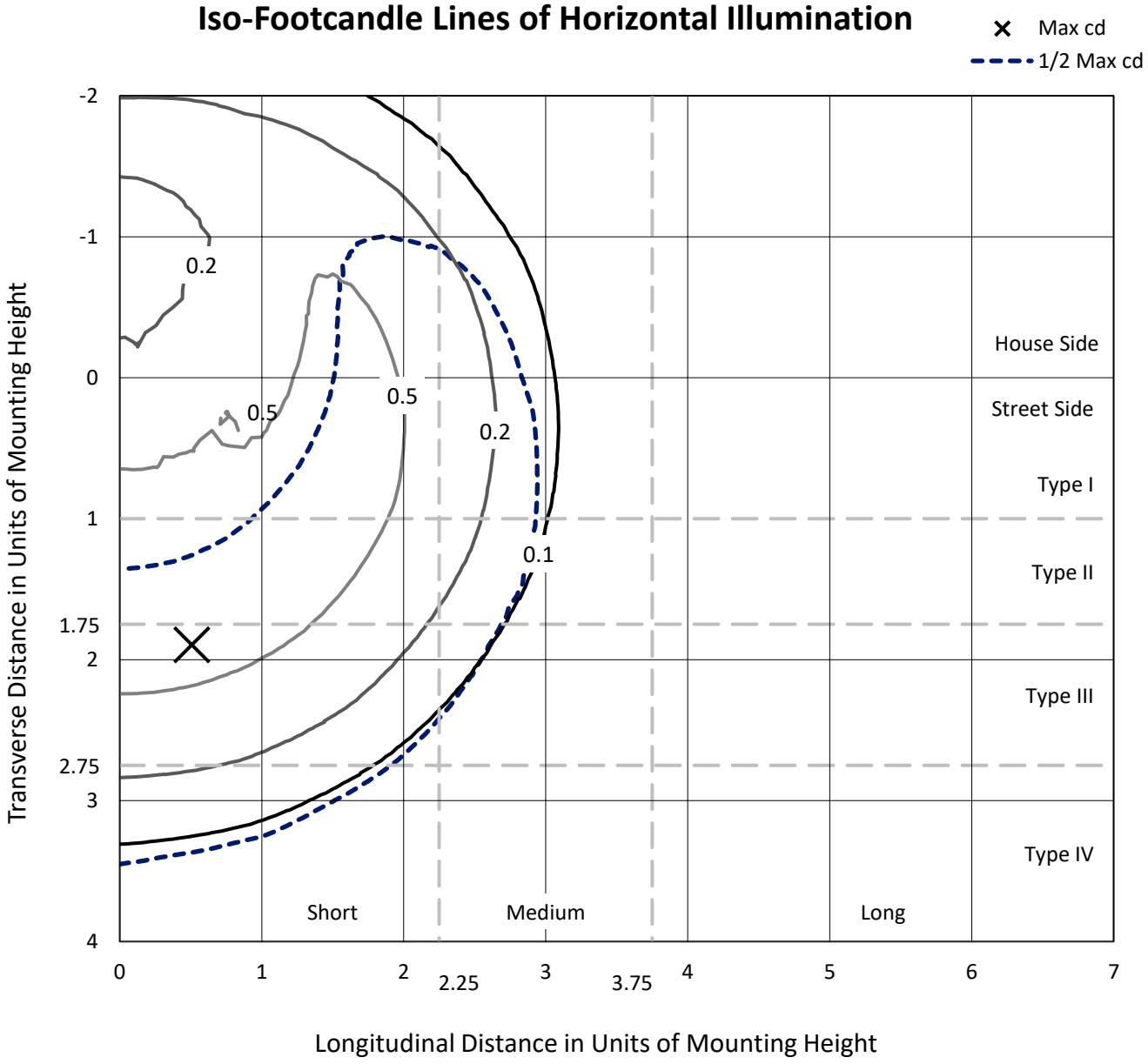


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## Iso-Footcandle Lines of Horizontal Illumination



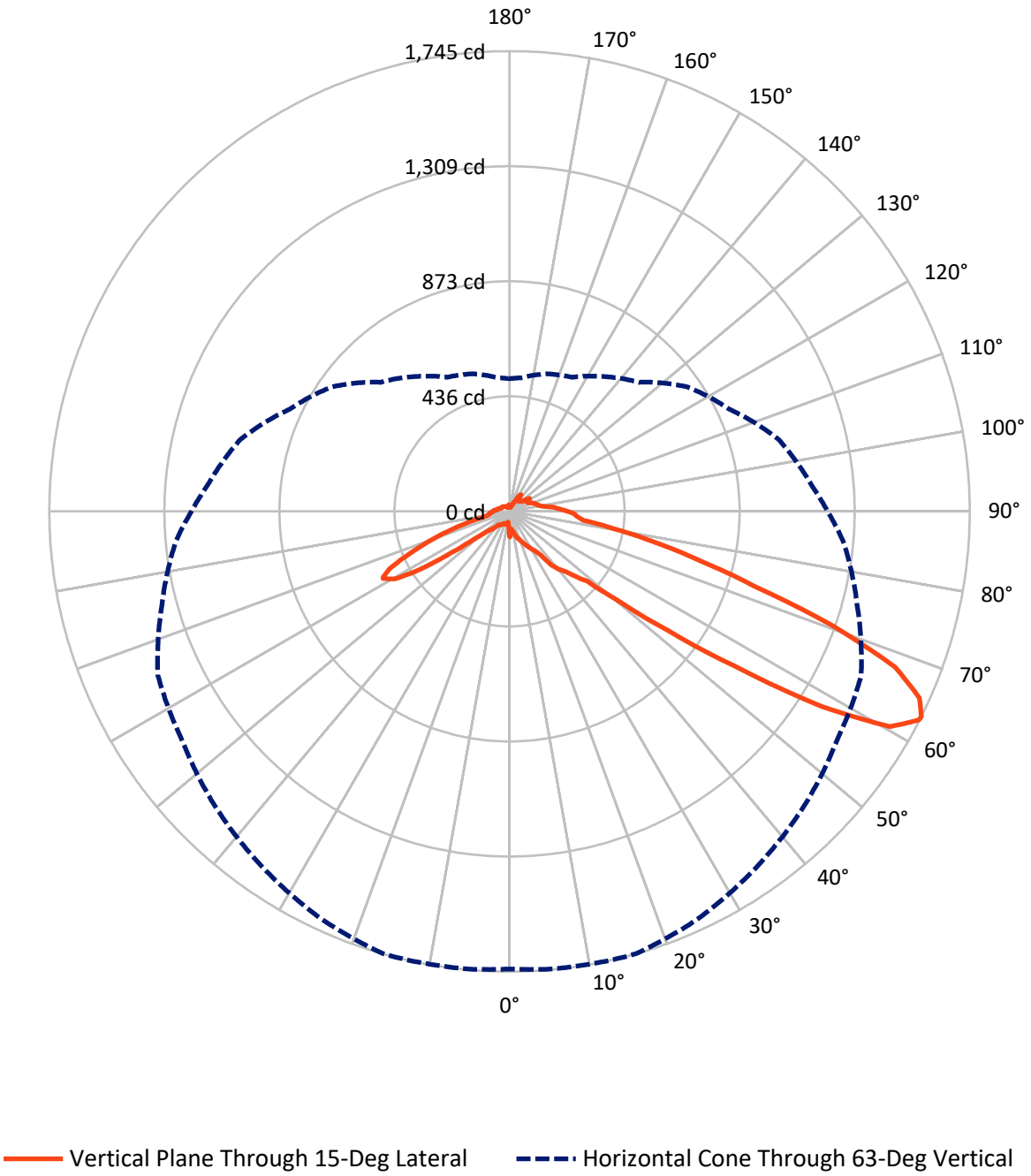

Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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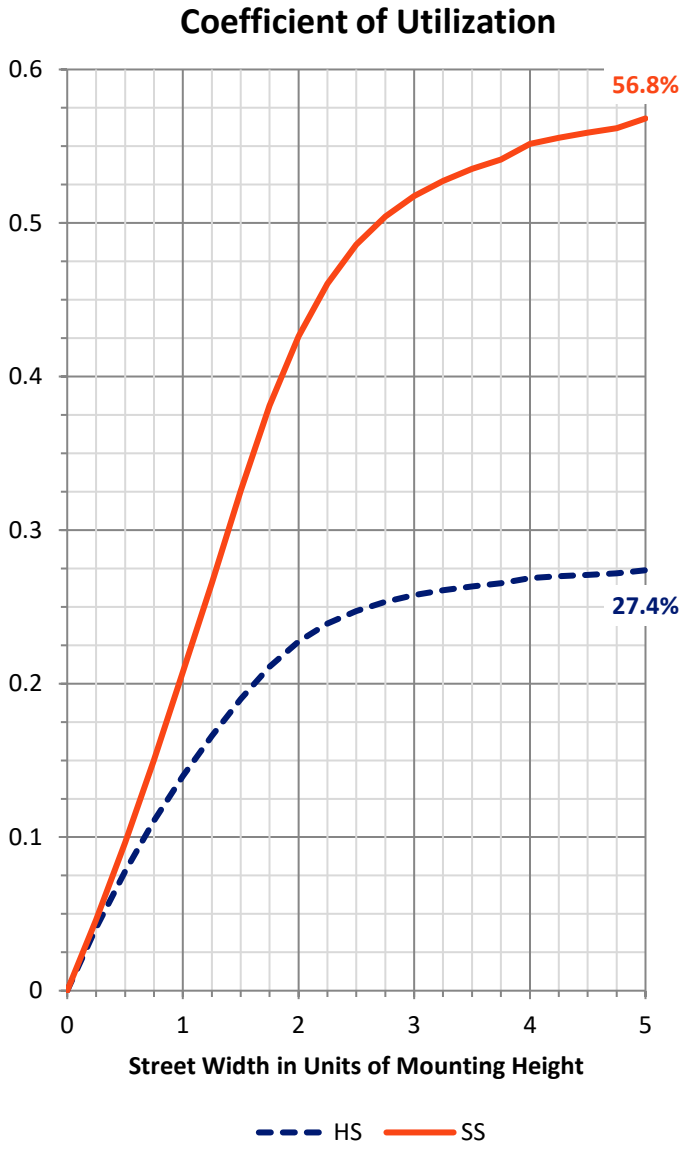
REPORT NUMBER: P1046451
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 930.2 | 151.6 | 1081.8 |
| | % Fixture | 28.3 | 4.6 | 32.9 |
| **Street Side** | Lumens | 1947.8 | 259.6 | 2207.4 |
| | % Fixture | 59.2 | 7.9 | 67.1 |
| **Total** | Lumens | 2878.1 | 411.2 | 3289.2 |
| | % Fixture | 87.5 | 12.5 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 6.0 | 0.2 |
| 10°-20° | 21.5 | 0.7 |
| 20°-30° | 46.7 | 1.4 |
| 30°-40° | 95.9 | 2.9 |
| 40°-50° | 197.8 | 6.0 |
| 50°-60° | 650.7 | 19.8 |
| 60°-70° | 1077.4 | 32.8 |
| 70°-80° | 565.1 | 17.2 |
| 80°-90° | 217.0 | 6.6 |
| 90°-100° | 131.1 | 4.0 |
| 100°-110° | 82.6 | 2.5 |
| 110°-120° | 61.1 | 1.9 |
| 120°-130° | 52.0 | 1.6 |
| 130°-140° | 33.9 | 1.0 |
| 140°-150° | 29.5 | 0.9 |
| 150°-160° | 13.5 | 0.4 |
| 160°-170° | 5.5 | 0.2 |
| 170°-180° | 1.9 | 0.1 |
| 0°-90° | 2878.1 | 87.5 |
| 0°-180° | 3289.2 | 100.0 |



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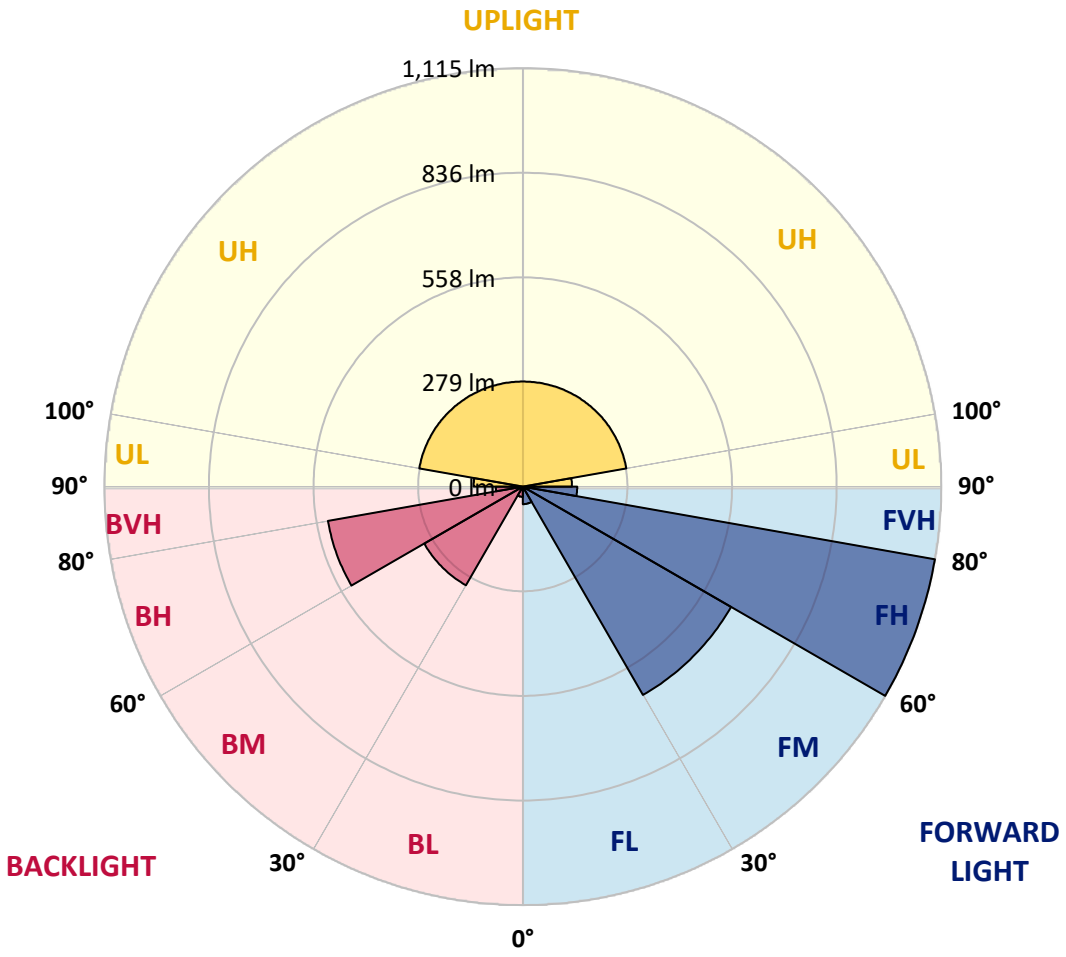
Scaled Data Report

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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°) | 46.8 | 1.4 | | | |
| FM | (30°-60°) | 640.9 | 19.5 | | | |
| FH | (60°-80°) | 1115.1 | 33.9 | | | G1/1800 |
| FVH | (80°-90°) | 145.0 | 4.4 | | | G2/225 |
| BL | (0°-30°) | 27.4 | 0.8 | B0/110 | | |
| BM | (30°-60°) | 303.5 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 527.3 | 16.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 72.0 | 2.2 | | | G1/100 |
| UL | (90°-100°) | 131.1 | 4.0 | | U3/500 | |
| UH | (100°-180°) | 280.1 | 8.5 | | U3/500 | |

**BUG Rating: B2-U3-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 16° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 97.1 | 97.1 | *97.1* | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 |
| 2.5° | 59.8 | 59.8 | *68.4* | 69.9 | 78.1 | 80.7 | 76.2 | 72.7 | 81.2 | 98.4 | 101.2 |
| 5° | 65.0 | 66.3 | *66.1* | 65.8 | 66.3 | 74.0 | 82.0 | 78.4 | 64.3 | 51.2 | 51.2 |
| 7.5° | 73.6 | 74.0 | *73.8* | 73.6 | 70.8 | 66.3 | 64.3 | 70.2 | 73.8 | 62.8 | 52.7 |
| 10° | 79.7 | 79.2 | *79.0* | 78.8 | 79.2 | 81.0 | 80.3 | 73.2 | 66.1 | 62.4 | 60.2 |
| 12.5° | 91.1 | 91.3 | *90.7* | 90.2 | 89.8 | 89.2 | 88.5 | 90.0 | 86.1 | 75.6 | 68.4 |
| 15° | 99.7 | 99.7 | *101.5* | 101.0 | 101.0 | 98.9 | 95.8 | 91.5 | 86.4 | 83.5 | 77.3 |
| 17.5° | 108.8 | 109.0 | *108.8* | 108.8 | 107.9 | 105.1 | 101.9 | 98.0 | 92.6 | 87.9 | 82.5 |
| 20° | 117.7 | 117.7 | *117.4* | 117.2 | 117.0 | 114.8 | 110.7 | 105.6 | 100.6 | 96.1 | 90.5 |
| 22.5° | 126.9 | 127.6 | *128.0* | 127.6 | 126.9 | 124.8 | 120.2 | 115.3 | 110.5 | 104.1 | 98.0 |
| 25° | 140.1 | 140.3 | *139.9* | 139.5 | 138.6 | 135.8 | 132.3 | 127.2 | 121.3 | 114.4 | 106.4 |
| 27.5° | 152.6 | 153.1 | *152.8* | 152.8 | 151.1 | 148.7 | 145.3 | 138.4 | 131.9 | 123.9 | 115.7 |
| 30° | 166.9 | 166.4 | *165.4* | 165.6 | 164.5 | 162.6 | 158.7 | 152.6 | 144.4 | 134.9 | 125.9 |
| 32.5° | 180.9 | 180.9 | *179.4* | 178.7 | 178.7 | 176.2 | 171.8 | 165.6 | 157.8 | 147.7 | 138.8 |
| 35° | 196.2 | 200.1 | *204.0* | 205.5 | 205.5 | 201.8 | 196.7 | 188.5 | 181.8 | 171.2 | 160.2 |
| 37.5° | 269.8 | 267.5 | *258.0* | 259.1 | 255.8 | 254.3 | 250.8 | 243.9 | 234.7 | 218.5 | 201.6 |
| 40° | 295.7 | 295.3 | *288.2* | 287.3 | 285.8 | 280.9 | 277.2 | 272.4 | 269.2 | 249.8 | 224.5 |
| 42.5° | 300.3 | 302.7 | *312.2* | 314.5 | 326.8 | 319.3 | 304.6 | 277.8 | 271.1 | 256.5 | 245.9 |
| 45° | 351.2 | 352.1 | *352.1* | 352.5 | 349.3 | 343.7 | 341.7 | 324.7 | 311.3 | 290.1 | 270.3 |
| 47.5° | 402.0 | 403.9 | *396.3* | 402.4 | 410.8 | 399.4 | 394.2 | 380.2 | 361.8 | 345.4 | 312.8 |
| 50° | 519.8 | 527.4 | *528.9* | 529.1 | 532.8 | 531.9 | 524.1 | 504.7 | 486.4 | 448.8 | 412.5 |
| 52.5° | 738.1 | 745.4 | *748.7* | 740.9 | 729.4 | 724.3 | 726.2 | 718.2 | 675.7 | 635.3 | 561.7 |
| 55° | 1023.0 | 1035.8 | *1035.8* | 1044.0 | 1040.5 | 1015.9 | 1014.4 | 962.2 | 893.5 | 848.6 | 784.5 |
| 57.5° | 1404.3 | 1385.1 | *1395.9* | 1407.5 | 1383.8 | 1357.9 | 1319.2 | 1264.6 | 1164.2 | 1086.7 | 993.9 |
| 60° | 1686.9 | 1679.1 | *1657.7* | 1644.5 | 1585.2 | 1533.8 | 1503.4 | 1463.4 | 1387.2 | 1285.3 | 1161.2 |
| 62.5° | 1738.7 | 1744.3 | *1742.8* | 1742.8 | 1695.3 | 1633.7 | 1572.2 | 1513.7 | 1466.4 | 1361.5 | 1263.3 |
| 63° | *1735.4* | *1742.3* | *1745.1* | *1744.3* | *1701.5* | *1640.9* | *1579.8* | *1515.2* | *1471.4* | *1364.3* | *1269.3* |
| 65° | 1707.8 | 1713.6 | *1708.7* | 1706.9 | 1679.9 | 1638.9 | 1570.3 | 1506.4 | 1466.4 | 1351.8 | 1270.2 |
| 67.5° | 1596.8 | 1595.5 | *1577.0* | 1585.4 | 1568.3 | 1545.5 | 1481.3 | 1418.3 | 1390.7 | 1265.5 | 1190.3 |
| 70° | 1289.6 | 1280.6 | *1300.9* | 1313.0 | 1294.4 | 1285.3 | 1209.1 | 1167.7 | 1132.1 | 1036.8 | 976.2 |
| 72.5° | 985.9 | 967.1 | *970.6* | 981.6 | 958.3 | 952.0 | 919.4 | 885.3 | 868.3 | 808.9 | 741.5 |
| 75° | 773.0 | 762.9 | *744.1* | 747.1 | 727.9 | 721.7 | 718.2 | 708.3 | 701.6 | 652.2 | 585.5 |
| 77.5° | 578.1 | 577.7 | *561.9* | 559.5 | 545.7 | 556.1 | 552.0 | 566.9 | 563.7 | 524.4 | 473.6 |
| 80° | 404.6 | 402.2 | *406.3* | 404.8 | 401.5 | 407.6 | 401.1 | 409.3 | 409.3 | 383.6 | 362.2 |
| 82.5° | 264.0 | 268.8 | *281.7* | 284.7 | 289.5 | 303.7 | 280.9 | 268.8 | 265.5 | 262.7 | 252.4 |
| 85° | 262.1 | 263.4 | *257.8* | 258.4 | 256.2 | 250.8 | 254.9 | 256.9 | 253.7 | 238.1 | 215.2 |
| 87.5° | 247.0 | 248.7 | *244.2* | 245.5 | 237.5 | 239.2 | 241.8 | 243.3 | 241.8 | 228.0 | 209.0 |
| 90° | 208.1 | 210.0 | *214.1* | 214.1 | 214.8 | 215.2 | 211.1 | 213.5 | 212.0 | 198.8 | 185.0 |
| 92.5° | 184.6 | 186.3 | *186.5* | 186.7 | 185.0 | 190.6 | 183.9 | 179.8 | 178.7 | 168.2 | 158.2 |
| 95° | 168.8 | 166.9 | *166.4* | 166.9 | 166.0 | 165.8 | 161.5 | 158.5 | 157.2 | 148.7 | 139.0 |
| 97.5° | 132.1 | 133.2 | *132.8* | 133.8 | 131.7 | 131.5 | 127.8 | 123.9 | 122.6 | 115.7 | 109.2 |
| 100° | 115.9 | 115.7 | *116.1* | 116.4 | 115.1 | 113.6 | 111.0 | 108.2 | 106.6 | 101.5 | 95.2 |
| 102.5° | 108.8 | 108.6 | *109.4* | 109.7 | 108.6 | 107.5 | 105.3 | 103.6 | 102.3 | 97.6 | 90.7 |
| 105° | 104.3 | 103.6 | *104.7* | 104.7 | 102.3 | 101.7 | 100.2 | 100.0 | 99.1 | 93.5 | 86.8 |
| 107.5° | 98.0 | 96.9 | *98.2* | 98.0 | 97.1 | 96.5 | 95.2 | 94.3 | 93.7 | 88.9 | 81.4 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 16° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 92.2 | 90.7 | *91.3* | 91.7 | 92.4 | 92.0 | 90.9 | 89.2 | 87.4 | 83.5 | 77.3 |
| 112.5° | 81.4 | 82.2 | *82.0* | 82.0 | 82.7 | 82.9 | 81.0 | 79.9 | 78.8 | 75.8 | 71.7 |
| 115° | 77.3 | 77.3 | *77.3* | 77.3 | 75.6 | 74.9 | 73.0 | 71.7 | 71.5 | 67.8 | 65.2 |
| 117.5° | 74.0 | 74.5 | *75.6* | 76.2 | 78.4 | 77.1 | 72.7 | 69.9 | 68.9 | 67.4 | 64.5 |
| 120° | 87.2 | 85.7 | *84.2* | 84.0 | 84.2 | 83.3 | 82.5 | 80.5 | 77.9 | 73.8 | 66.1 |
| 122.5° | 93.5 | 89.6 | *90.2* | 90.0 | 88.5 | 89.2 | 89.4 | 89.6 | 87.9 | 81.4 | 69.3 |
| 125° | 78.4 | 77.3 | *77.9* | 78.6 | 78.8 | 78.6 | 78.1 | 80.1 | 77.7 | 75.6 | 66.5 |
| 127.5° | 62.6 | 62.2 | *60.9* | 60.7 | 60.2 | 60.4 | 60.4 | 61.1 | 58.9 | 56.8 | 56.3 |
| 130° | 59.6 | 58.7 | *58.9* | 59.1 | 58.9 | 57.6 | 56.8 | 55.7 | 55.5 | 53.3 | 50.3 |
| 132.5° | 54.0 | 54.4 | *58.1* | 58.5 | 61.1 | 59.6 | 55.0 | 52.0 | 52.5 | 53.5 | 52.5 |
| 135° | 50.5 | 50.3 | *53.1* | 53.3 | 57.2 | 56.1 | 52.5 | 49.0 | 49.0 | 51.6 | 50.5 |
| 137.5° | 51.6 | 52.0 | *52.2* | 52.5 | 52.2 | 52.0 | 51.8 | 50.3 | 49.2 | 49.0 | 46.4 |
| 140° | 55.5 | 55.3 | *53.1* | 53.3 | 53.1 | 53.1 | 54.4 | 55.5 | 51.8 | 48.6 | 44.3 |
| 142.5° | 58.1 | 58.7 | *57.9* | 58.9 | 60.9 | 59.1 | 57.0 | 54.2 | 52.0 | 49.9 | 47.3 |
| 145° | 78.8 | 77.3 | *76.6* | 76.2 | 74.9 | 71.2 | 69.1 | 66.3 | 63.7 | 60.2 | 55.9 |
| 147.5° | 71.5 | 71.9 | *70.6* | 71.0 | 69.3 | 68.0 | 67.6 | 67.8 | 66.9 | 65.0 | 60.4 |
| 150° | 56.8 | 57.2 | *55.9* | 55.3 | 54.6 | 54.6 | 54.6 | 55.0 | 54.0 | 52.7 | 50.5 |
| 152.5° | 39.7 | 39.3 | *38.9* | 38.6 | 38.2 | 37.8 | 37.8 | 38.0 | 36.9 | 36.5 | 34.8 |
| 155° | 36.5 | 36.3 | *34.5* | 34.1 | 34.5 | 35.0 | 35.2 | 34.5 | 33.7 | 32.8 | 30.4 |
| 157.5° | 28.5 | 27.8 | *27.6* | 28.1 | 28.1 | 27.8 | 27.4 | 27.8 | 27.0 | 26.8 | 26.3 |
| 160° | 23.3 | 23.1 | *23.3* | 23.3 | 23.5 | 23.5 | 23.3 | 23.3 | 22.9 | 23.1 | 23.1 |
| 162.5° | 19.9 | 19.9 | *19.9* | 19.6 | 20.1 | 20.3 | 20.1 | 20.1 | 20.3 | 20.9 | 21.4 |
| 165° | 17.1 | 17.1 | *17.3* | 17.3 | 17.5 | 17.5 | 17.7 | 17.9 | 18.3 | 19.9 | 21.2 |
| 167.5° | 16.0 | 16.0 | *16.2* | 16.2 | 16.4 | 16.6 | 17.1 | 17.9 | 19.2 | 20.9 | 21.6 |
| 170° | 15.8 | 15.8 | *15.8* | 15.8 | 16.0 | 16.2 | 17.1 | 18.3 | 19.9 | 20.9 | 20.3 |
| 172.5° | 16.4 | 16.4 | *16.6* | 16.6 | 16.6 | 17.5 | 18.1 | 19.2 | 20.1 | 20.3 | 19.6 |
| 175° | 17.1 | 16.8 | *17.1* | 17.1 | 17.3 | 17.9 | 18.8 | 19.2 | 19.6 | 19.9 | 20.1 |
| 177.5° | 16.6 | 16.6 | *16.6* | 16.8 | 16.8 | 17.1 | 17.5 | 17.7 | 18.1 | 18.6 | 19.2 |
| 180° | 16.2 | 16.2 | *16.2* | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 |
| 2.5° | 101.2 | 98.4 | 76.6 | 65.6 | 74.9 | 93.0 | 94.8 | 82.0 | 63.7 | 44.3 | 40.4 |
| 5° | 54.0 | 57.0 | 63.7 | 63.5 | 59.1 | 55.3 | 50.5 | 47.5 | 52.5 | 50.3 | 51.6 |
| 7.5° | 48.8 | 46.0 | 47.1 | 55.0 | 53.8 | 40.8 | 36.9 | 36.1 | 40.4 | 50.3 | 49.2 |
| 10° | 59.4 | 58.5 | 55.3 | 48.8 | 46.6 | 48.4 | 49.9 | 48.8 | 44.9 | 39.1 | 38.2 |
| 12.5° | 67.1 | 66.1 | 66.5 | 70.6 | 65.6 | 54.4 | 48.1 | 46.2 | 48.4 | 57.0 | 58.7 |
| 15° | 74.7 | 72.7 | 69.9 | 64.1 | 59.4 | 56.3 | 52.7 | 48.8 | 50.1 | 47.7 | 46.8 |
| 17.5° | 79.9 | 76.9 | 71.0 | 66.7 | 62.0 | 58.1 | 54.8 | 50.7 | 47.9 | 47.3 | 47.5 |
| 20° | 86.8 | 83.5 | 77.3 | 72.3 | 66.5 | 61.3 | 55.7 | 51.4 | 48.6 | 47.5 | 47.5 |
| 22.5° | 94.8 | 90.9 | 83.8 | 76.9 | 70.4 | 63.7 | 57.0 | 52.2 | 49.7 | 48.6 | 48.1 |
| 25° | 103.2 | 99.3 | 90.5 | 83.1 | 74.9 | 67.6 | 60.7 | 54.6 | 51.8 | 50.5 | 49.4 |
| 27.5° | 111.8 | 107.1 | 98.2 | 89.2 | 80.3 | 71.7 | 64.3 | 58.1 | 54.2 | 52.0 | 52.2 |
| 30° | 121.3 | 117.4 | 107.5 | 97.1 | 86.1 | 76.0 | 68.9 | 61.7 | 57.0 | 54.6 | 54.8 |
| 32.5° | 134.1 | 127.8 | 115.9 | 104.1 | 93.3 | 82.0 | 73.0 | 64.8 | 59.6 | 58.1 | 58.3 |
| 35° | 155.2 | 147.2 | 132.8 | 116.6 | 102.1 | 88.9 | 77.5 | 67.8 | 61.7 | 59.4 | 59.1 |
| 37.5° | 193.4 | 182.6 | 166.0 | 147.0 | 126.1 | 104.7 | 86.1 | 71.2 | 63.7 | 59.8 | 59.1 |
| 40° | 212.0 | 197.3 | 176.4 | 160.0 | 145.7 | 127.4 | 106.2 | 83.8 | 66.9 | 62.0 | 61.3 |
| 42.5° | 236.8 | 224.5 | 197.3 | 165.4 | 146.4 | 131.0 | 116.1 | 101.7 | 80.7 | 67.8 | 65.4 |
| 45° | 260.8 | 249.8 | 228.4 | 197.1 | 168.8 | 144.9 | 122.6 | 106.9 | 93.9 | 80.7 | 79.7 |
| 47.5° | 301.1 | 289.5 | 253.9 | 226.0 | 196.2 | 169.0 | 145.7 | 119.8 | 103.0 | 93.7 | 93.7 |
| 50° | 402.4 | 381.0 | 345.8 | 303.1 | 255.2 | 211.1 | 178.1 | 146.4 | 126.1 | 112.0 | 111.4 |
| 52.5° | 543.8 | 513.6 | 461.8 | 414.5 | 357.9 | 307.0 | 255.6 | 200.3 | 170.8 | 150.5 | 150.2 |
| 55° | 748.0 | 717.1 | 647.8 | 557.0 | 487.7 | 426.8 | 373.5 | 312.8 | 266.2 | 233.4 | 230.8 |
| 57.5° | 965.8 | 939.9 | 869.3 | 756.4 | 647.2 | 539.5 | 474.9 | 426.6 | 404.1 | 381.2 | 376.5 |
| 60° | 1107.0 | 1062.5 | 998.2 | 890.5 | 784.7 | 647.4 | 567.3 | 511.8 | 504.3 | 499.3 | 493.1 |
| 62.5° | 1195.9 | 1143.5 | 1047.9 | 918.8 | 821.6 | 691.7 | 620.0 | 560.8 | 543.1 | 516.6 | 509.0 |
| 63° | *1206.1* | *1149.1* | *1055.8* | *918.1* | *822.7* | *692.3* | *623.9* | *560.8* | *540.1* | *508.2* | *503.2* |
| 65° | 1201.3 | 1148.5 | 1055.4 | 904.7 | 797.7 | 679.6 | 612.7 | 535.2 | 502.1 | 459.8 | 451.4 |
| 67.5° | 1128.8 | 1072.5 | 984.8 | 836.7 | 740.0 | 619.6 | 545.9 | 463.7 | 413.6 | 372.2 | 362.5 |
| 70° | 919.0 | 884.0 | 806.9 | 678.9 | 605.5 | 511.6 | 447.1 | 382.5 | 328.3 | 284.7 | 273.7 |
| 72.5° | 700.3 | 663.6 | 605.7 | 522.6 | 468.4 | 403.9 | 342.8 | 293.2 | 248.5 | 219.5 | 220.4 |
| 75° | 555.7 | 520.7 | 473.0 | 418.4 | 374.1 | 316.7 | 256.2 | 207.0 | 175.3 | 158.0 | 156.5 |
| 77.5° | 447.5 | 423.3 | 381.7 | 331.4 | 293.2 | 233.1 | 179.4 | 136.4 | 112.9 | 103.0 | 100.2 |
| 80° | 345.0 | 328.1 | 297.0 | 252.8 | 213.1 | 163.8 | 122.2 | 96.5 | 84.0 | 75.6 | 74.0 |
| 82.5° | 245.5 | 235.3 | 209.4 | 178.5 | 151.5 | 125.9 | 107.1 | 90.2 | 77.3 | 70.2 | 68.0 |
| 85° | 204.9 | 195.4 | 179.0 | 159.7 | 142.5 | 123.7 | 103.8 | 85.9 | 73.8 | 68.2 | 65.4 |
| 87.5° | 198.8 | 190.0 | 174.2 | 153.7 | 134.9 | 114.6 | 94.6 | 77.7 | 69.1 | 63.7 | 62.0 |
| 90° | 178.1 | 171.4 | 157.6 | 138.8 | 120.0 | 99.3 | 81.8 | 69.9 | 63.3 | 58.9 | 57.0 |
| 92.5° | 153.5 | 147.7 | 136.2 | 120.5 | 104.7 | 89.8 | 76.4 | 66.5 | 59.8 | 55.5 | 54.0 |
| 95° | 133.4 | 129.7 | 120.2 | 106.9 | 95.4 | 83.1 | 71.7 | 62.2 | 55.3 | 51.4 | 49.9 |
| 97.5° | 106.4 | 102.1 | 95.2 | 85.9 | 77.3 | 68.6 | 60.2 | 53.8 | 48.8 | 46.2 | 44.9 |
| 100° | 92.6 | 89.8 | 83.5 | 76.2 | 68.9 | 61.3 | 54.8 | 49.9 | 46.6 | 44.5 | 43.4 |
| 102.5° | 87.2 | 85.3 | 79.4 | 72.1 | 65.2 | 57.9 | 51.4 | 46.8 | 44.5 | 42.5 | 41.7 |
| 105° | 82.2 | 80.7 | 76.2 | 69.5 | 62.8 | 54.8 | 47.5 | 43.6 | 41.4 | 40.2 | 39.5 |
| 107.5° | 77.1 | 75.3 | 71.0 | 64.5 | 58.7 | 51.8 | 45.3 | 40.6 | 37.8 | 36.3 | 36.1 |

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

Scaled Data Report

REPORT NUMBER: P1046451
CATALOG NUMBER: FFX-CLB-20-750-U-FR-T4-UPLR

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 72.7 | 71.5 | 66.7 | 61.5 | 55.9 | 49.4 | 43.8 | 38.9 | 35.6 | 33.9 | 33.7 |
| 112.5° | 68.2 | 66.7 | 62.0 | 57.0 | 52.2 | 46.6 | 41.7 | 37.3 | 34.3 | 32.6 | 32.4 |
| 115° | 62.2 | 60.9 | 57.4 | 52.7 | 48.8 | 43.4 | 39.3 | 35.4 | 33.0 | 31.3 | 31.1 |
| 117.5° | 62.8 | 59.1 | 54.4 | 50.1 | 46.6 | 42.7 | 39.1 | 36.1 | 32.4 | 30.4 | 30.4 |
| 120° | 63.7 | 60.2 | 55.5 | 51.8 | 49.9 | 46.8 | 41.2 | 36.9 | 31.9 | 30.0 | 29.8 |
| 122.5° | 62.8 | 63.3 | 60.7 | 57.0 | 53.1 | 47.9 | 41.0 | 36.3 | 31.3 | 29.8 | 30.0 |
| 125° | 60.9 | 62.8 | 59.1 | 54.2 | 49.0 | 44.0 | 38.2 | 33.9 | 30.9 | 29.8 | 29.6 |
| 127.5° | 55.0 | 54.6 | 49.9 | 46.2 | 42.5 | 38.4 | 34.8 | 32.2 | 30.0 | 28.7 | 28.1 |
| 130° | 48.6 | 48.4 | 46.4 | 43.4 | 39.7 | 36.1 | 32.8 | 31.1 | 28.9 | 27.2 | 26.8 |
| 132.5° | 51.2 | 50.5 | 46.4 | 41.4 | 37.3 | 34.3 | 32.2 | 30.2 | 27.2 | 25.3 | 25.0 |
| 135° | 48.4 | 47.9 | 43.8 | 38.9 | 35.2 | 33.7 | 32.2 | 29.4 | 25.7 | 24.2 | 24.0 |
| 137.5° | 44.3 | 42.5 | 39.1 | 36.1 | 34.3 | 33.9 | 31.9 | 28.7 | 25.3 | 23.5 | 23.3 |
| 140° | 42.1 | 40.8 | 38.2 | 36.3 | 34.3 | 31.9 | 29.1 | 26.1 | 23.7 | 22.5 | 22.2 |
| 142.5° | 44.7 | 44.3 | 40.4 | 36.9 | 33.9 | 31.1 | 28.1 | 26.1 | 23.5 | 21.8 | 21.6 |
| 145° | 52.9 | 50.7 | 46.0 | 41.2 | 38.6 | 35.0 | 31.1 | 27.0 | 22.2 | 19.6 | 19.0 |
| 147.5° | 57.9 | 55.9 | 51.2 | 46.0 | 40.4 | 34.5 | 28.5 | 23.3 | 19.6 | 17.7 | 17.3 |
| 150° | 47.9 | 47.1 | 44.0 | 39.3 | 34.5 | 29.1 | 24.2 | 20.5 | 18.1 | 16.8 | 16.8 |
| 152.5° | 33.7 | 33.5 | 32.2 | 29.4 | 26.3 | 23.3 | 20.7 | 18.6 | 17.3 | 16.4 | 16.4 |
| 155° | 29.8 | 29.4 | 28.5 | 25.9 | 23.7 | 21.2 | 19.2 | 17.9 | 17.1 | 16.4 | 16.4 |
| 157.5° | 25.7 | 25.3 | 25.0 | 23.1 | 21.4 | 19.6 | 18.1 | 17.1 | 16.4 | 16.0 | 15.8 |
| 160° | 22.9 | 22.2 | 21.6 | 20.5 | 19.4 | 18.6 | 17.9 | 17.1 | 16.4 | 16.0 | 16.0 |
| 162.5° | 21.4 | 20.9 | 19.9 | 19.0 | 18.6 | 18.6 | 18.8 | 18.3 | 17.1 | 16.4 | 16.2 |
| 165° | 21.4 | 20.7 | 19.2 | 18.3 | 18.3 | 19.4 | 20.5 | 19.6 | 18.6 | 17.3 | 17.1 |
| 167.5° | 21.6 | 21.2 | 19.6 | 19.0 | 19.6 | 20.9 | 22.0 | 21.8 | 20.3 | 19.2 | 19.2 |
| 170° | 20.1 | 19.9 | 20.1 | 20.7 | 21.4 | 21.6 | 22.0 | 21.8 | 22.2 | 23.7 | 23.7 |
| 172.5° | 19.4 | 19.6 | 20.7 | 21.8 | 23.1 | 23.1 | 22.0 | 21.8 | 23.7 | 25.9 | 26.3 |
| 175° | 20.3 | 20.7 | 21.8 | 23.1 | 24.2 | 24.2 | 23.1 | 23.3 | 25.3 | 27.2 | 27.6 |
| 177.5° | 19.4 | 19.6 | 20.1 | 19.9 | 20.3 | 19.2 | 19.6 | 19.2 | 19.9 | 19.9 | 19.9 |
| 180° | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |

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: SP1-2501-332-10

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-750-U-FR-T5-UPLR-P-HSS

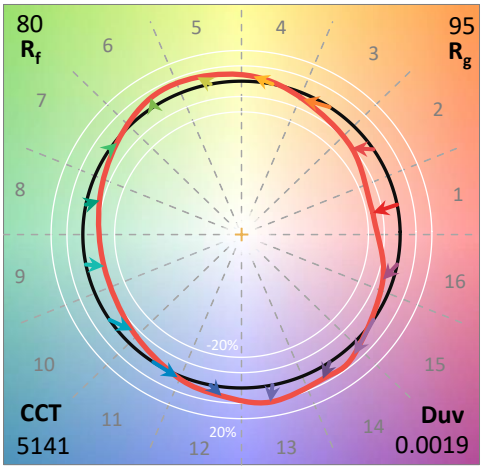
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-10 |
| 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-20-750-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): | 5141 | CRI (Ra): | 78.0 | | |
| CIE u': | 0.2087 | R1: | 75.1 | R9: | -20.0 |
| CIE v': | 0.4845 | R2: | 83.7 | R10: | 62.4 |
| Duv: | 0.0019 | R3: | 90.5 | R11: | 77.7 |
| CIE x: | 0.3415 | R4: | 78.3 | R12: | 58.6 |
| CIE y: | 0.3524 | R5: | 77.1 | R13: | 76.9 |
| CIE z: | 0.3060 | R6: | 78.0 | R14: | 95.0 |
| Peak Wavelength (nm): | 448 | R7: | 82.9 | R15: | 67.8 |
| Dominant Wavelength (nm): | 568 | R8: | 58.7 | | |
| Purity: | 8.219556 | | | | |
| Rf: | 79.6 | | | | |
| Rg: | 95.3 | | | | |




## Test Conditions

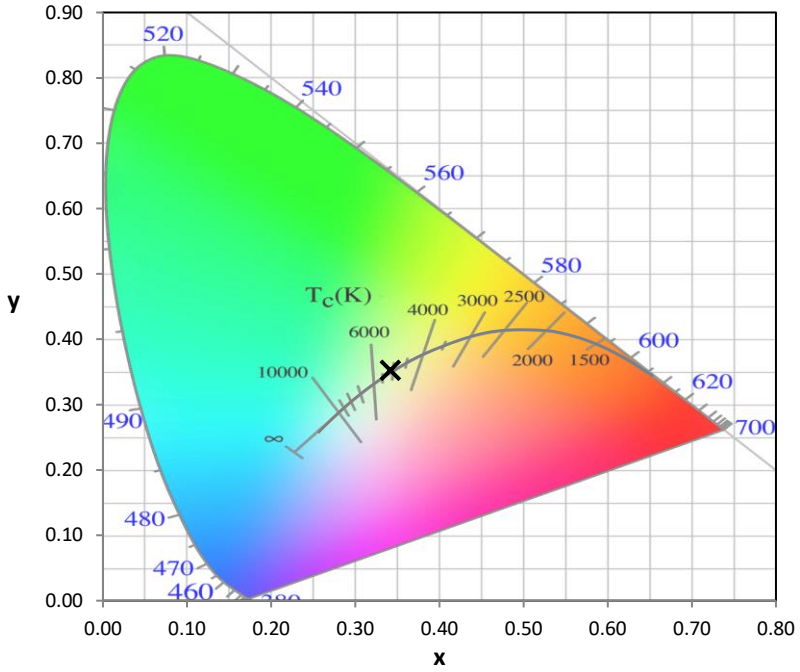
| | |
|---|---|
| Stabilization Time: | 23M |
| Operation Time: | 1H 23M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-10

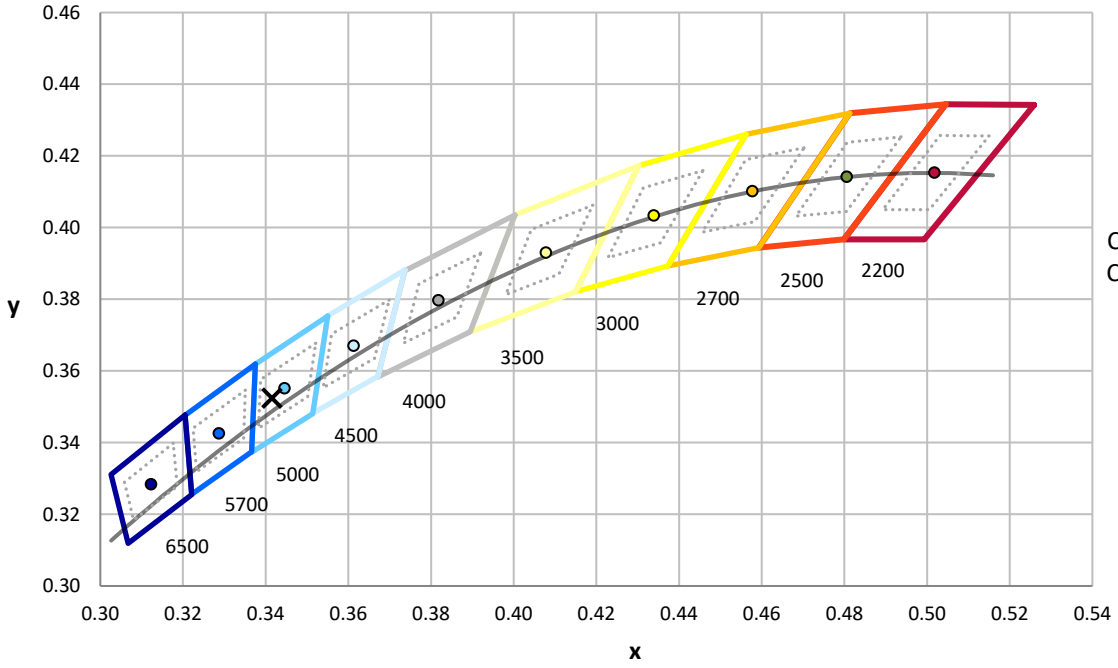
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

## CIE 1931 Chromaticity Diagram




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

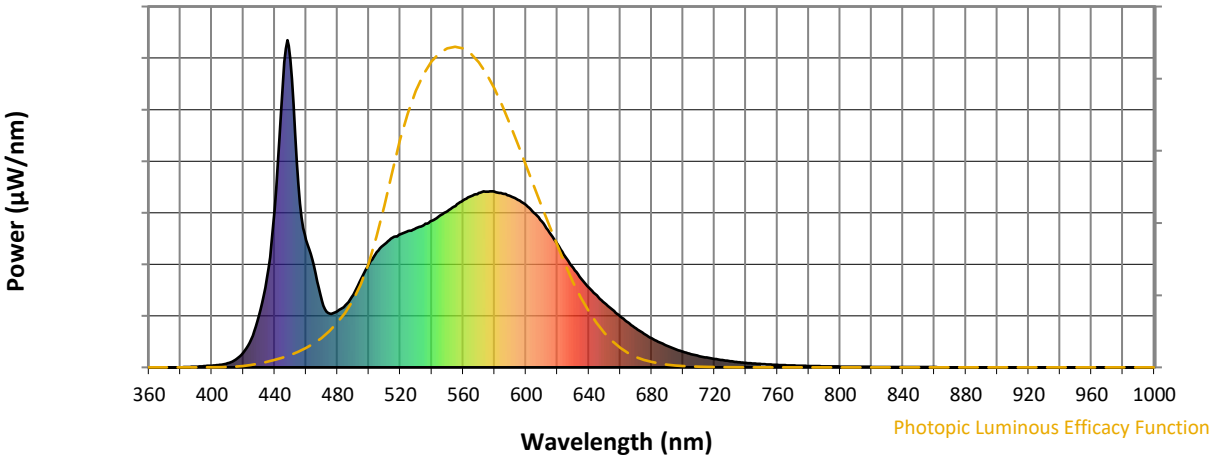



CCT = 5141K
CIE x = 0.3415
CIE y = 0.3524
Duv = 0.0019

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-10

## Photopic Flux vs. Wavelength

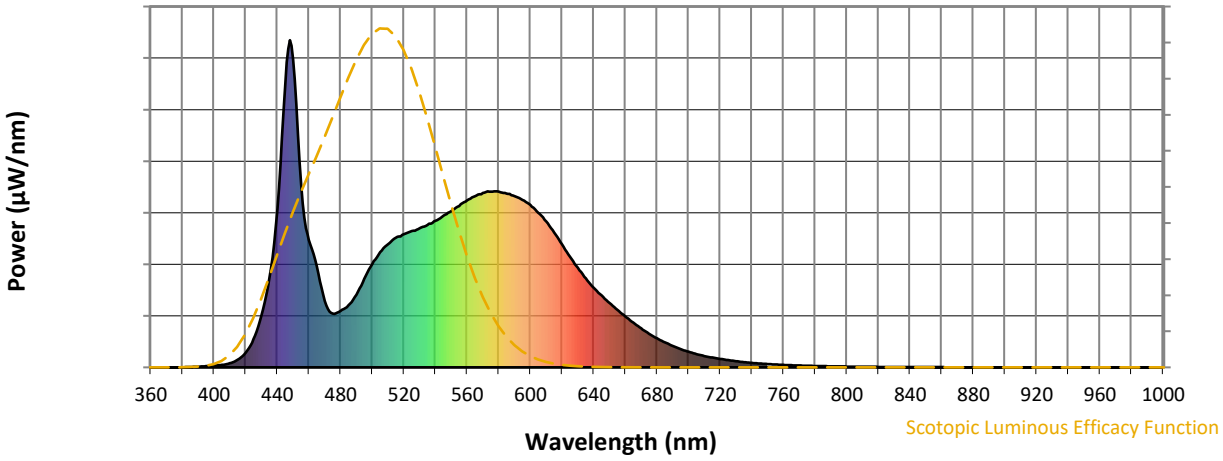



## Photopic Lumens: NR

| 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 | 222 | NR | 620 | 377 | NR | 750 | 10 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 270 | NR | 625 | 338 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 315 | NR | 630 | 304 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 352 | NR | 635 | 272 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 377 | NR | 640 | 244 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 396 | NR | 645 | 220 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 407 | NR | 650 | 197 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 416 | NR | 655 | 176 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 425 | NR | 660 | 155 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 435 | NR | 665 | 137 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 448 | NR | 670 | 119 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 464 | NR | 675 | 103 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 477 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 86 | NR | 555 | 493 | NR | 685 | 77 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 158 | NR | 560 | 511 | NR | 690 | 65 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 274 | NR | 565 | 524 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 483 | NR | 570 | 533 | NR | 700 | 48 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 857 | NR | 575 | 537 | NR | 705 | 41 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 941 | NR | 580 | 537 | NR | 710 | 35 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 561 | NR | 585 | 532 | NR | 715 | 30 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 389 | NR | 590 | 524 | NR | 720 | 26 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 512 | NR | 725 | 22 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 203 | NR | 600 | 495 | NR | 730 | 19 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 165 | NR | 605 | 473 | NR | 735 | 16 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 173 | NR | 610 | 446 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 190 | NR | 615 | 412 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2501-332-10

## Scotopic Flux vs. Wavelength

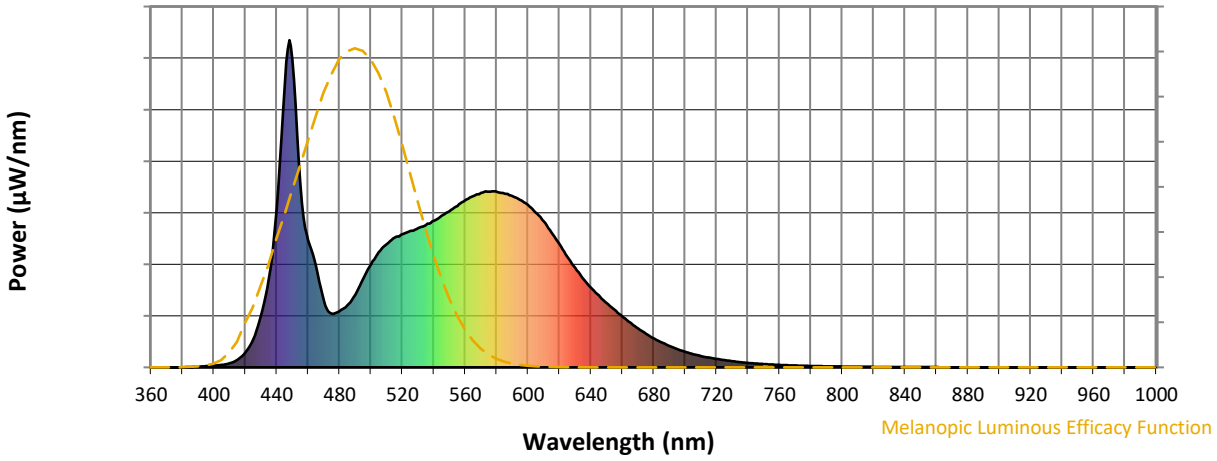



**Scotopic Lumens: NR** **S/P: 1.92**

| 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 | 222 | NR | 620 | 377 | NR | 750 | 10 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 270 | NR | 625 | 338 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 315 | NR | 630 | 304 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 352 | NR | 635 | 272 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 377 | NR | 640 | 244 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 396 | NR | 645 | 220 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 407 | NR | 650 | 197 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 416 | NR | 655 | 176 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 425 | NR | 660 | 155 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 435 | NR | 665 | 137 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 448 | NR | 670 | 119 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 464 | NR | 675 | 103 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 477 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 86 | NR | 555 | 493 | NR | 685 | 77 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 158 | NR | 560 | 511 | NR | 690 | 65 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 274 | NR | 565 | 524 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 483 | NR | 570 | 533 | NR | 700 | 48 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 857 | NR | 575 | 537 | NR | 705 | 41 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 941 | NR | 580 | 537 | NR | 710 | 35 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 561 | NR | 585 | 532 | NR | 715 | 30 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 389 | NR | 590 | 524 | NR | 720 | 26 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 512 | NR | 725 | 22 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 203 | NR | 600 | 495 | NR | 730 | 19 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 165 | NR | 605 | 473 | NR | 735 | 16 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 173 | NR | 610 | 446 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 190 | NR | 615 | 412 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2501-332-10

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 4.05**

| 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 | 222 | NR | 620 | 377 | NR | 750 | 10 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 270 | NR | 625 | 338 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 315 | NR | 630 | 304 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 352 | NR | 635 | 272 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 377 | NR | 640 | 244 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 396 | NR | 645 | 220 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 407 | NR | 650 | 197 | NR | 780 | 4 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 416 | NR | 655 | 176 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 425 | NR | 660 | 155 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 435 | NR | 665 | 137 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 448 | NR | 670 | 119 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 464 | NR | 675 | 103 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 45 | NR | 550 | 477 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 86 | NR | 555 | 493 | NR | 685 | 77 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 158 | NR | 560 | 511 | NR | 690 | 65 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 274 | NR | 565 | 524 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 483 | NR | 570 | 533 | NR | 700 | 48 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 857 | NR | 575 | 537 | NR | 705 | 41 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 941 | NR | 580 | 537 | NR | 710 | 35 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 561 | NR | 585 | 532 | NR | 715 | 30 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 389 | NR | 590 | 524 | NR | 720 | 26 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 309 | NR | 595 | 512 | NR | 725 | 22 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 203 | NR | 600 | 495 | NR | 730 | 19 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 165 | NR | 605 | 473 | NR | 735 | 16 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 173 | NR | 610 | 446 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 190 | NR | 615 | 412 | NR | 745 | 12 | NR | 875 | 0 | NR | | | |

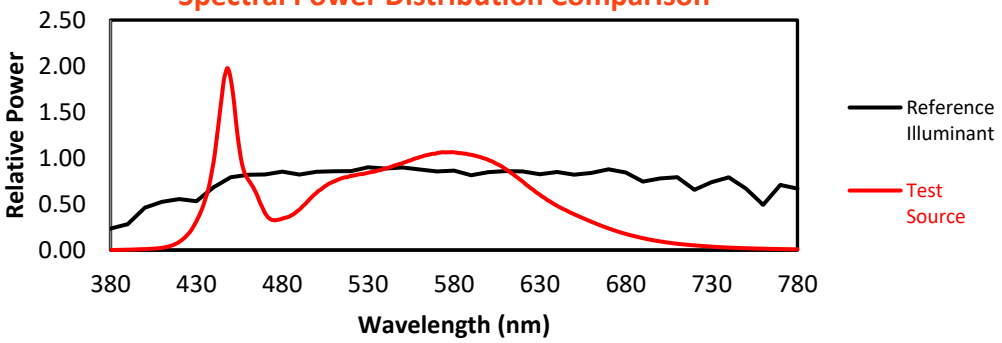
REPORT NUMBER: SP1-2501-332-10

# TM-30-18

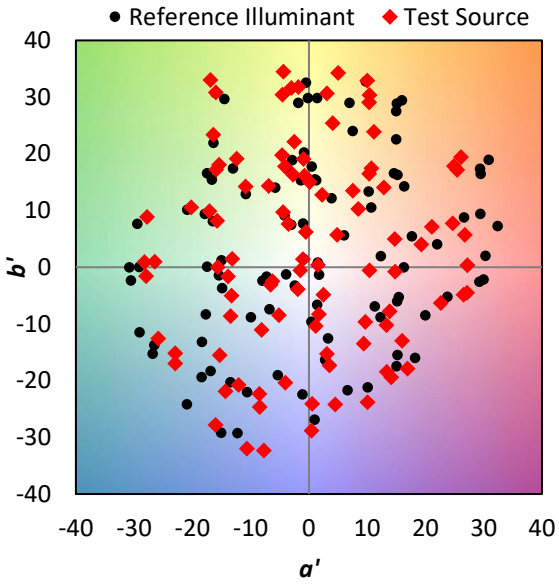
## Summary

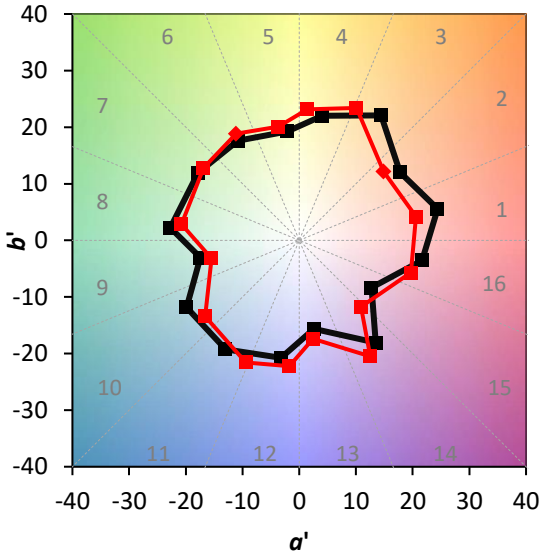
$R_f$ = 79.6
$R_g$ = 95.3
CIE $R_a$ = 78.0
$R_9$ = -20.0

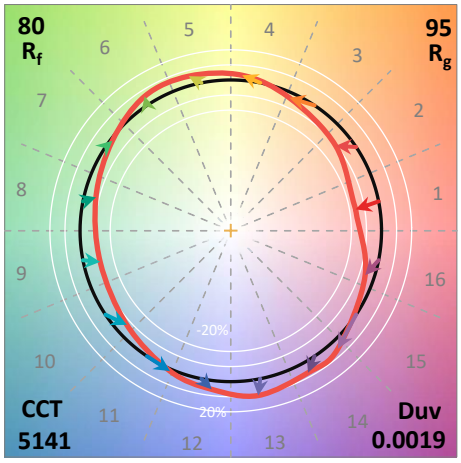
## Spectral Power Distribution Comparison

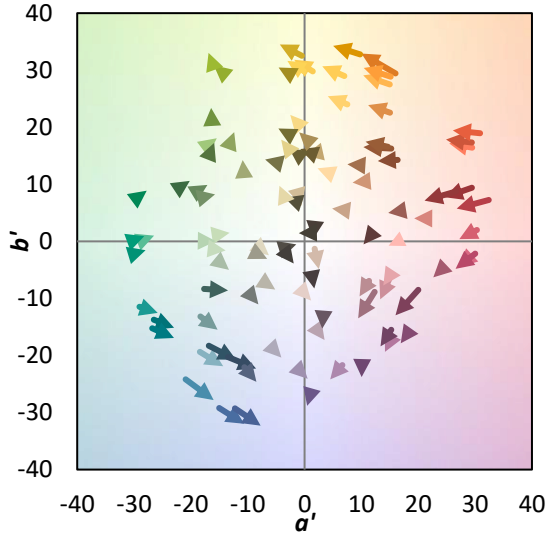



## Color Vector Graphics



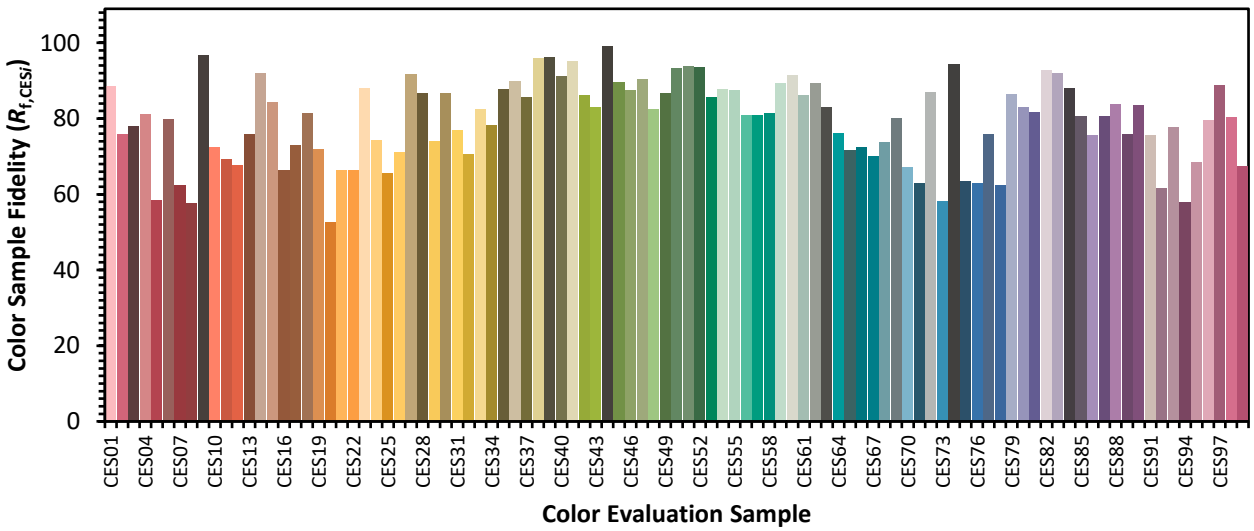



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**Individual Sample Fidelity Index ($R_{f,i}$)**

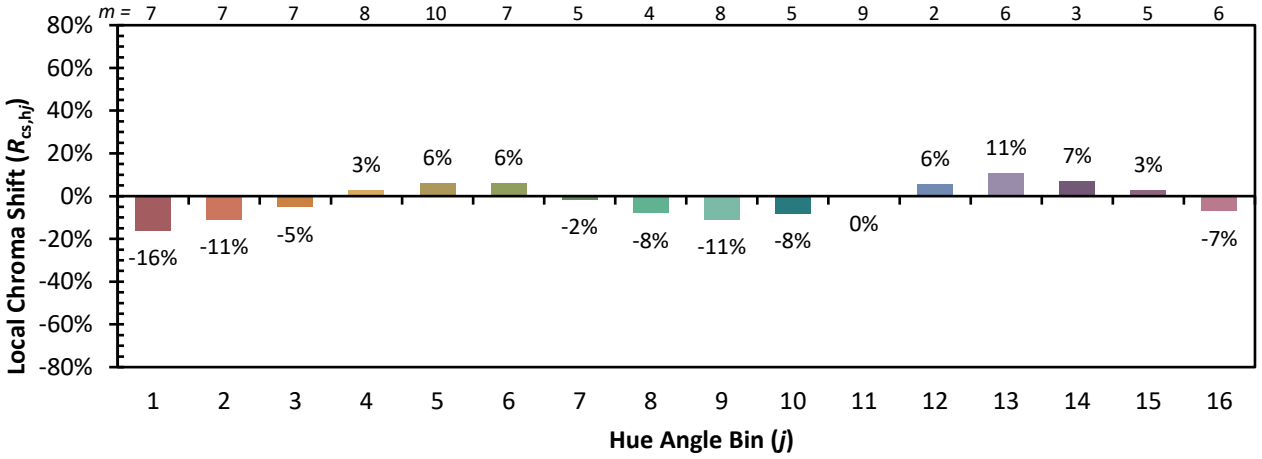
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 71 | CES51 = 94 | CES76 = 63 |
| CES02 = 60 | CES27 = 92 | CES52 = 94 | CES77 = 76 |
| CES03 = 30 | CES28 = 87 | CES53 = 86 | CES78 = 63 |
| CES04 = 69 | CES29 = 74 | CES54 = 88 | CES79 = 86 |
| CES05 = 46 | CES30 = 87 | CES55 = 88 | CES80 = 83 |
| CES06 = 50 | CES31 = 77 | CES56 = 81 | CES81 = 82 |
| CES07 = 39 | CES32 = 70 | CES57 = 81 | CES82 = 93 |
| CES08 = 38 | CES33 = 83 | CES58 = 82 | CES83 = 92 |
| CES09 = 29 | CES34 = 78 | CES59 = 89 | CES84 = 88 |
| CES10 = 73 | CES35 = 88 | CES60 = 91 | CES85 = 81 |
| CES11 = 56 | CES36 = 90 | CES61 = 86 | CES86 = 76 |
| CES12 = 61 | CES37 = 86 | CES62 = 89 | CES87 = 81 |
| CES13 = 42 | CES38 = 96 | CES63 = 83 | CES88 = 84 |
| CES14 = 74 | CES39 = 96 | CES64 = 76 | CES89 = 76 |
| CES15 = 70 | CES40 = 91 | CES65 = 72 | CES90 = 83 |
| CES16 = 46 | CES41 = 95 | CES66 = 72 | CES91 = 76 |
| CES17 = 49 | CES42 = 86 | CES67 = 70 | CES92 = 62 |
| CES18 = 55 | CES43 = 83 | CES68 = 74 | CES93 = 78 |
| CES19 = 71 | CES44 = 99 | CES69 = 80 | CES94 = 58 |
| CES20 = 64 | CES45 = 90 | CES70 = 67 | CES95 = 68 |
| CES21 = 85 | CES46 = 88 | CES71 = 63 | CES96 = 79 |
| CES22 = 77 | CES47 = 90 | CES72 = 87 | CES97 = 89 |
| CES23 = 91 | CES48 = 83 | CES73 = 58 | CES98 = 80 |
| CES24 = 90 | CES49 = 87 | CES74 = 94 | CES99 = 67 |
| CES25 = 71 | CES50 = 93 | CES75 = 64 | |

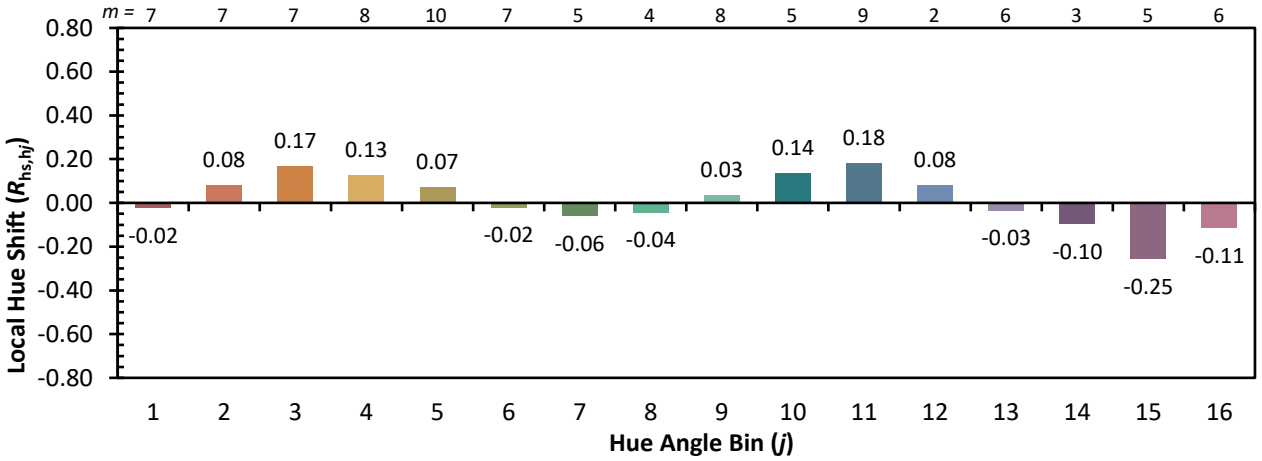


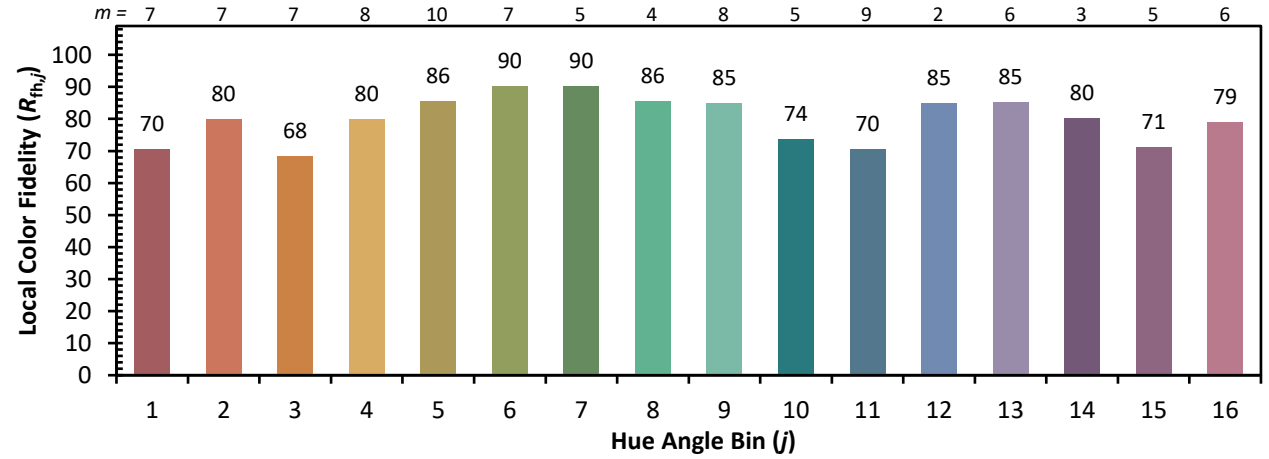
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## Color Rendition by Hue-Angle Bin



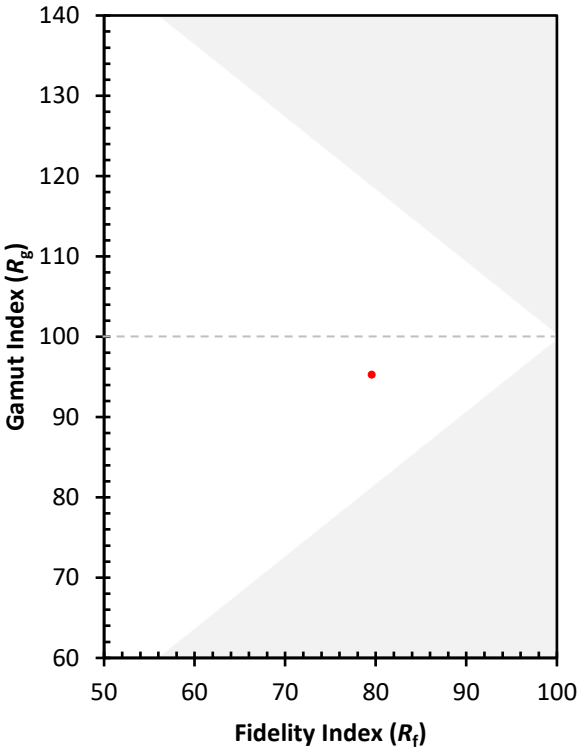



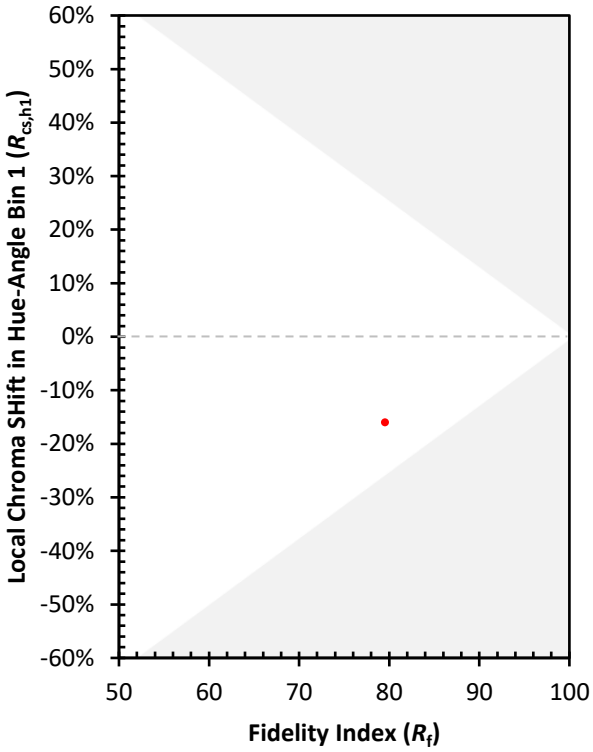



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## Measure Comparisons




(END OF REPORT)