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: P1046608

Luminaire Tested: **FFX-CLB-70-730-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: | P1046608 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-70-730-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: | 9804.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 137.7 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U4 - G4 |

| | |
|---|---|
| Input Watts (W): | 71.2 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 6.93% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

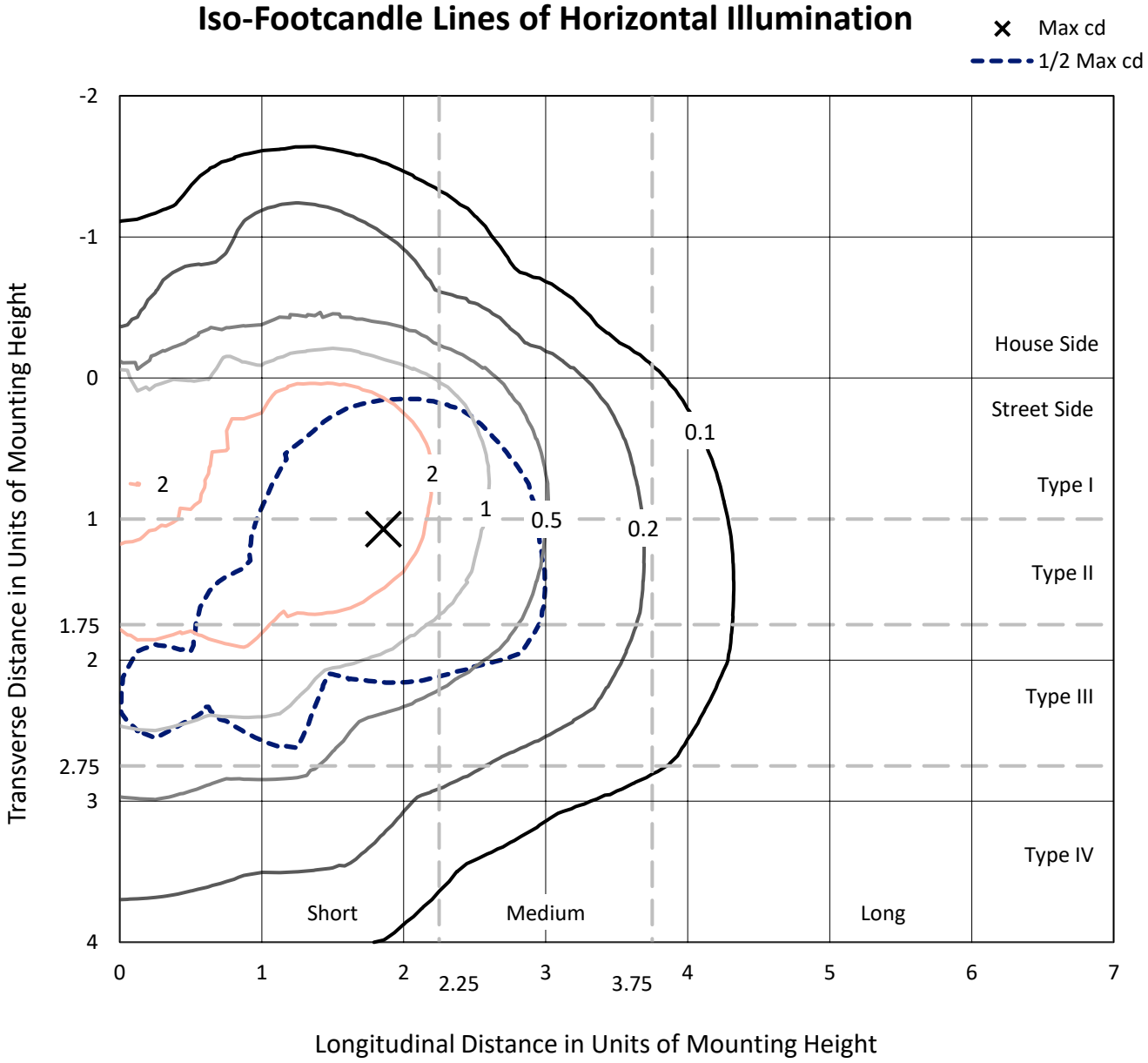


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## Iso-Footcandle Lines of Horizontal Illumination



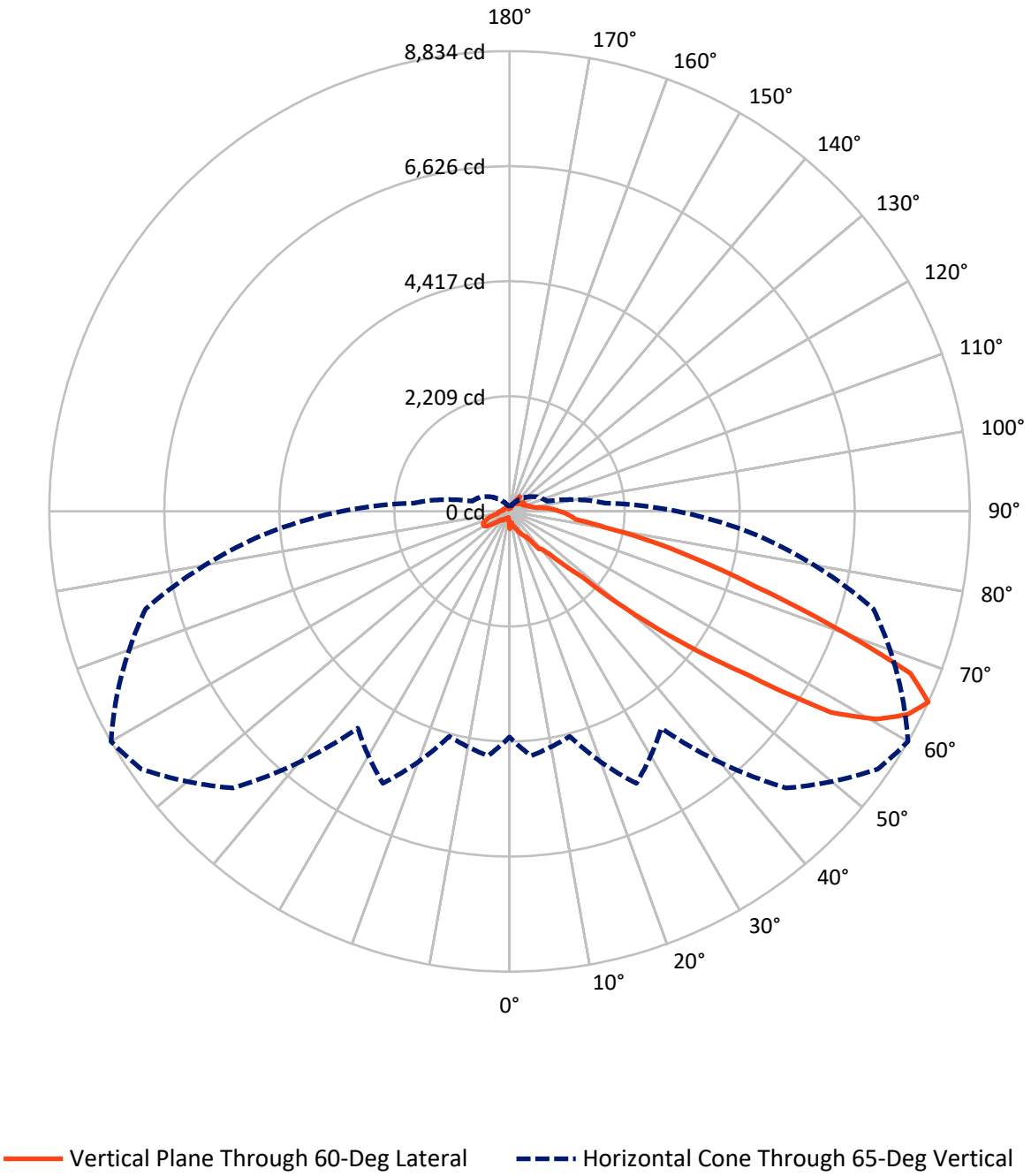

Based on 15 foot mounting height. Maximum calculated value = 5 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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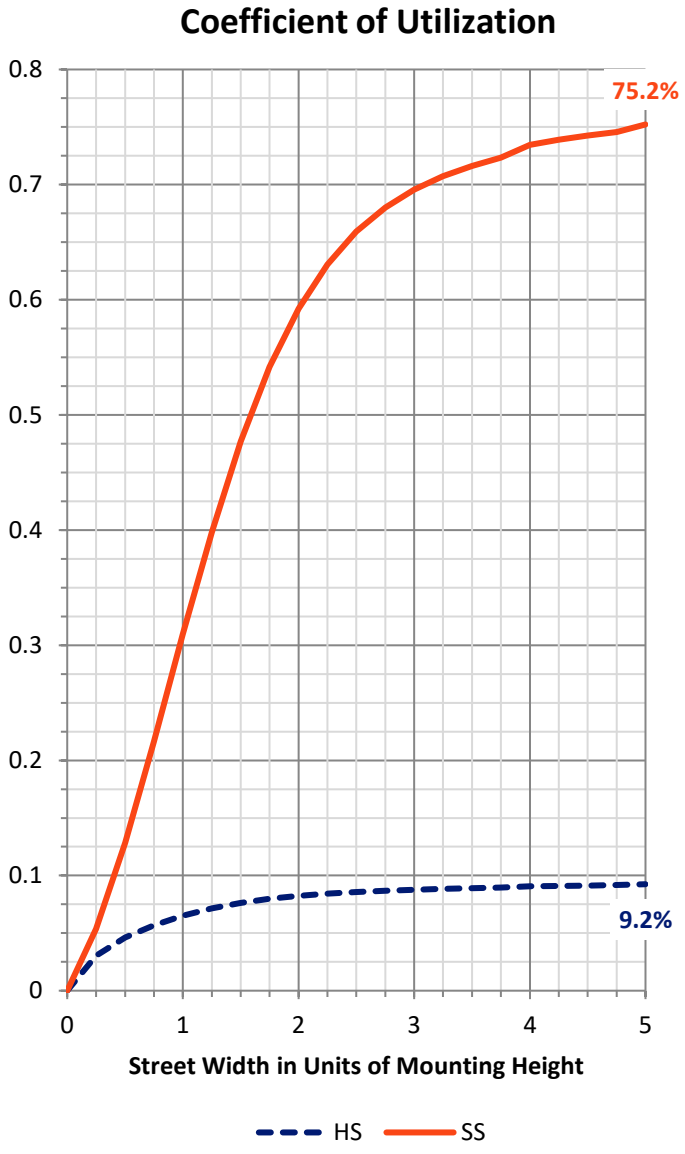
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 950.7 | 306.8 | 1257.5 |
| | % Fixture | 9.7 | 3.1 | 12.8 |
| **Street Side** | Lumens | 7640.4 | 906.9 | 8547.3 |
| | % Fixture | 77.9 | 9.2 | 87.2 |
| **Total** | Lumens | 8591.0 | 1213.8 | 9804.8 |
| | % Fixture | 87.6 | 12.4 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 18.0 | 0.2 |
| 10°-20° | 62.8 | 0.6 |
| 20°-30° | 134.2 | 1.4 |
| 30°-40° | 275.4 | 2.8 |
| 40°-50° | 645.2 | 6.6 |
| 50°-60° | 2018.2 | 20.6 |
| 60°-70° | 3160.2 | 32.2 |
| 70°-80° | 1671.8 | 17.1 |
| 80°-90° | 605.3 | 6.2 |
| 90°-100° | 365.0 | 3.7 |
| 100°-110° | 228.7 | 2.3 |
| 110°-120° | 184.8 | 1.9 |
| 120°-130° | 154.2 | 1.6 |
| 130°-140° | 112.3 | 1.1 |
| 140°-150° | 103.2 | 1.1 |
| 150°-160° | 43.0 | 0.4 |
| 160°-170° | 17.1 | 0.2 |
| 170°-180° | 5.5 | 0.1 |
| 0°-90° | 8591.0 | 87.6 |
| 0°-180° | 9804.8 | 100.0 |



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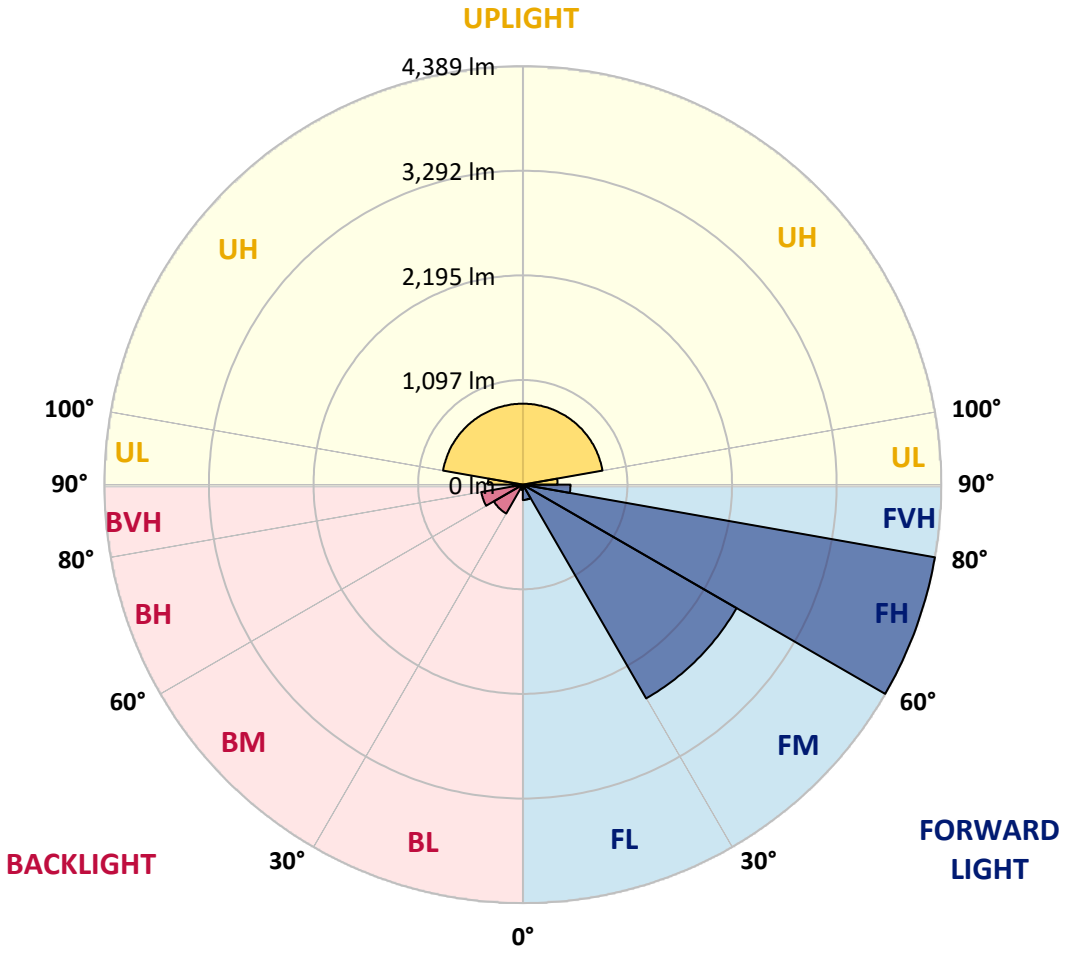
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 161.6 | 1.6 | | | |
| FM | (30°-60°) | 2589.2 | 26.4 | | | |
| FH | (60°-80°) | 4389.4 | 44.8 | | | G2/5000 |
| FVH | (80°-90°) | 500.2 | 5.1 | | | G4/750 |
| BL | (0°-30°) | 53.4 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 349.6 | 3.6 | B1/1000 | | |
| BH | (60°-80°) | 442.5 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 105.1 | 1.1 | | | G2/225 |
| UL | (90°-100°) | 365.0 | 3.7 | | U3/500 | |
| UH | (100°-180°) | 848.7 | 8.7 | | U4/1000 | |

**BUG Rating: B1-U4-G4**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 |
| 2.5° | 183.6 | 190.7 | 232.3 | 275.4 | 287.6 | 261.0 | 225.9 | 230.2 | 249.6 | 342.1 | 382.9 |
| 5° | 215.1 | 217.3 | 213.7 | 218.7 | 248.8 | 286.8 | 264.6 | 238.8 | 204.4 | 147.7 | 146.3 |
| 7.5° | 247.4 | 247.4 | 246.0 | 228.0 | 207.2 | 200.8 | 220.1 | 223.7 | 220.1 | 183.6 | 158.5 |
| 10° | 269.6 | 269.6 | 268.9 | 270.3 | 271.8 | 264.6 | 233.1 | 220.9 | 208.0 | 192.2 | 185.0 |
| 12.5° | 327.0 | 328.4 | 337.8 | 332.7 | 314.1 | 294.7 | 298.3 | 294.7 | 275.4 | 241.7 | 213.7 |
| 15° | 400.1 | 403.0 | 404.4 | 385.8 | 355.7 | 319.8 | 296.9 | 291.1 | 287.6 | 268.2 | 240.2 |
| 17.5° | 438.1 | 436.7 | 419.5 | 400.1 | 380.8 | 355.0 | 333.5 | 324.8 | 311.9 | 287.6 | 257.4 |
| 20° | 433.8 | 433.8 | 416.6 | 412.3 | 413.8 | 398.0 | 370.7 | 360.0 | 345.6 | 322.7 | 281.1 |
| 22.5° | 446.0 | 446.8 | 436.0 | 439.6 | 455.4 | 439.6 | 413.0 | 405.9 | 392.3 | 359.3 | 317.0 |
| 25° | 492.6 | 492.6 | 480.5 | 475.4 | 489.1 | 483.3 | 468.3 | 459.7 | 440.3 | 400.1 | 325.6 |
| 27.5° | 535.0 | 532.1 | 520.6 | 522.0 | 509.1 | 506.3 | 502.7 | 499.1 | 481.9 | 418.1 | 329.9 |
| 30° | 567.9 | 567.9 | 557.9 | 564.4 | 537.1 | 541.4 | 528.5 | 538.5 | 516.3 | 442.5 | 346.4 |
| 32.5° | 598.1 | 602.4 | 598.8 | 607.4 | 575.1 | 593.8 | 571.5 | 582.3 | 568.7 | 486.2 | 393.0 |
| 35° | 667.6 | 672.6 | 689.1 | 710.6 | 671.2 | 690.6 | 655.4 | 670.5 | 656.9 | 585.2 | 482.6 |
| 37.5° | 943.7 | 935.8 | 900.0 | 864.8 | 826.8 | 906.4 | 897.8 | 912.2 | 890.6 | 775.2 | 609.5 |
| 40° | 949.4 | 945.1 | 938.0 | 915.7 | 844.0 | 922.9 | 926.5 | 952.3 | 1016.8 | 831.8 | 659.0 |
| 42.5° | 973.8 | 978.8 | 1064.2 | 1074.9 | 1021.2 | 1143.8 | 1110.1 | 1111.5 | 1332.4 | 985.3 | 850.5 |
| 45° | 1126.6 | 1126.6 | 1153.8 | 1167.4 | 1151.7 | 1503.8 | 1498.7 | 1455.7 | 1733.9 | 1229.1 | 1000.4 |
| 47.5° | 1291.5 | 1296.5 | 1346.7 | 1481.5 | 1569.7 | 1903.2 | 2002.1 | 1898.9 | 2263.9 | 1612.8 | 1378.3 |
| 50° | 1774.1 | 1784.1 | 1940.5 | 2058.8 | 2224.4 | 2785.9 | 3272.8 | 3115.8 | 3688.8 | 2460.4 | 2076.7 |
| 52.5° | 2123.3 | 2248.1 | 2334.2 | 2779.5 | 2844.0 | 3706.7 | 4334.9 | 4281.1 | 4665.5 | 3405.5 | 2520.6 |
| 55° | 2527.1 | 2721.4 | 2778.8 | 3469.3 | 3584.8 | 4783.1 | 5434.9 | 5530.3 | 5553.9 | 4402.3 | 2963.1 |
| 57.5° | 3191.8 | 3493.0 | 3503.8 | 4233.8 | 4253.8 | 6029.4 | 7067.0 | 7277.1 | 7037.6 | 5562.5 | 3660.8 |
| 60° | 3739.7 | 4092.5 | 3974.2 | 4968.1 | 4768.7 | 7037.6 | 7860.8 | 8098.9 | 7654.3 | 6554.3 | 4148.4 |
| 62.5° | 4078.9 | 4419.5 | 4263.9 | 5484.4 | 5078.5 | 7470.0 | 8334.9 | 8579.4 | 8090.3 | 7081.4 | 4523.5 |
| 65° | 4332.0 | 4709.9 | 4470.4 | 5759.7 | 5077.8 | 7508.8 | 8627.4 | 8834.0 | 8310.5 | 7232.7 | 4633.9 |
| 67.5° | 4337.0 | 4676.2 | 4377.2 | 5661.5 | 4740.0 | 6895.6 | 8170.6 | 8301.1 | 7720.3 | 6695.6 | 4305.5 |
| 70° | 3791.3 | 4035.1 | 3703.1 | 4778.0 | 3823.6 | 5233.4 | 6380.8 | 6535.6 | 5951.2 | 5147.3 | 3335.9 |
| 72.5° | 3172.5 | 3267.8 | 2938.7 | 3821.4 | 2994.6 | 3960.5 | 4877.7 | 4935.8 | 4626.7 | 3855.8 | 2578.7 |
| 75° | 2491.2 | 2454.6 | 2284.0 | 2849.0 | 2276.8 | 2806.0 | 3830.7 | 3774.8 | 3604.9 | 2837.6 | 1967.7 |
| 77.5° | 1662.2 | 1594.1 | 1602.7 | 1954.8 | 1590.5 | 1856.6 | 2789.5 | 2791.7 | 2732.2 | 2104.0 | 1403.4 |
| 80° | 1014.0 | 1016.1 | 988.2 | 1239.9 | 1049.8 | 1234.1 | 1922.5 | 1859.4 | 1860.9 | 1387.6 | 982.4 |
| 82.5° | 793.1 | 806.0 | 770.9 | 893.5 | 826.8 | 981.7 | 1256.4 | 1291.5 | 1253.5 | 1019.0 | 723.6 |
| 85° | 778.8 | 790.2 | 753.7 | 829.7 | 785.9 | 938.0 | 1181.8 | 1178.9 | 1158.8 | 945.1 | 684.1 |
| 87.5° | 713.5 | 727.1 | 699.9 | 753.0 | 719.3 | 868.4 | 1087.8 | 1073.5 | 1054.1 | 889.2 | 652.6 |
| 90° | 602.4 | 627.5 | 608.8 | 674.8 | 628.2 | 747.2 | 945.9 | 940.1 | 930.1 | 785.9 | 580.9 |
| 92.5° | 547.9 | 552.9 | 539.3 | 598.8 | 547.1 | 654.7 | 839.7 | 821.8 | 799.6 | 682.0 | 494.8 |
| 95° | 490.5 | 488.3 | 475.4 | 523.5 | 477.6 | 547.9 | 713.5 | 686.3 | 674.8 | 575.8 | 413.0 |
| 97.5° | 393.0 | 393.7 | 387.2 | 420.2 | 387.2 | 437.4 | 535.7 | 525.6 | 502.7 | 430.3 | 316.2 |
| 100° | 344.2 | 346.4 | 342.1 | 367.9 | 339.9 | 372.2 | 446.0 | 443.9 | 425.2 | 367.2 | 276.1 |
| 102.5° | 325.6 | 326.3 | 332.0 | 347.8 | 321.3 | 344.9 | 406.6 | 407.3 | 395.1 | 342.1 | 259.6 |
| 105° | 312.7 | 311.9 | 316.2 | 329.1 | 306.2 | 323.4 | 380.1 | 380.1 | 362.9 | 322.7 | 246.0 |
| 107.5° | 302.6 | 301.2 | 308.4 | 319.1 | 303.3 | 308.4 | 352.1 | 355.0 | 338.5 | 300.5 | 233.8 |
| 110° | 291.1 | 290.4 | 302.6 | 310.5 | 295.4 | 296.2 | 334.2 | 332.0 | 317.0 | 292.6 | 230.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 295.4 | 299.7 | 313.4 | 291.1 | 268.9 | 270.3 | 299.7 | *303.3* | 292.6 | 267.5 | 218.7 |
| 115° | 291.9 | 296.2 | 314.1 | 282.5 | 249.6 | 258.2 | 282.5 | *285.4* | 269.6 | 248.8 | 205.8 |
| 117.5° | 279.0 | 280.4 | 291.1 | 283.3 | 248.8 | 258.9 | 271.1 | *276.1* | 264.6 | 248.8 | 208.0 |
| 120° | 329.9 | 319.1 | 319.1 | 306.9 | 268.2 | 286.1 | 309.1 | *313.4* | 302.6 | 273.2 | 207.2 |
| 122.5° | 303.3 | 299.7 | 300.5 | 284.7 | 265.3 | 280.4 | 307.6 | *314.8* | 305.5 | 276.1 | 207.2 |
| 125° | 238.8 | 239.5 | 235.9 | 240.9 | 233.1 | 238.1 | 252.4 | *263.9* | 255.3 | 239.5 | 197.2 |
| 127.5° | 217.3 | 216.6 | 212.3 | 233.8 | 209.4 | 219.4 | 233.1 | *239.5* | 230.9 | 213.0 | 178.6 |
| 130° | 211.5 | 211.5 | 223.7 | 246.0 | 231.6 | 227.3 | 222.3 | *228.8* | 227.3 | 215.8 | 178.6 |
| 132.5° | 197.9 | 198.6 | 216.6 | 245.2 | 239.5 | 219.4 | 201.5 | *205.1* | 211.5 | 214.4 | 188.6 |
| 135° | 197.9 | 195.8 | 190.0 | 196.5 | 192.9 | 197.9 | 192.9 | *197.9* | 199.4 | 197.9 | 164.9 |
| 137.5° | 210.8 | 209.4 | 195.1 | 186.4 | 187.2 | 202.9 | 203.7 | *205.8* | 203.7 | 192.2 | 159.9 |
| 140° | 206.5 | 201.5 | 191.5 | 187.9 | 188.6 | 205.1 | 211.5 | *213.0* | 210.8 | 188.6 | 150.6 |
| 142.5° | 199.4 | 199.4 | 202.2 | 206.5 | 213.0 | 289.7 | 269.6 | *288.3* | 289.0 | 266.0 | 154.9 |
| 145° | 286.1 | 289.0 | 280.4 | 271.1 | 294.0 | 348.5 | 327.7 | *347.8* | 361.4 | 336.3 | 213.7 |
| 147.5° | 258.2 | 262.5 | 257.4 | 249.6 | 279.7 | 280.4 | 267.5 | *269.6* | 273.2 | 279.0 | 215.8 |
| 150° | 182.9 | 177.8 | 185.7 | 180.0 | 210.1 | 208.7 | 190.7 | *195.1* | 202.9 | 203.7 | 172.1 |
| 152.5° | 135.5 | 133.4 | 131.9 | 131.2 | 151.3 | 139.1 | 132.7 | *130.5* | 131.9 | 131.2 | 123.3 |
| 155° | 119.8 | 119.8 | 119.0 | 122.6 | 133.4 | 124.8 | 118.3 | *119.0* | 115.5 | 113.3 | 109.0 |
| 157.5° | 93.2 | 91.1 | 93.2 | 99.7 | 104.0 | 96.1 | 93.9 | *92.5* | 91.8 | 88.2 | 89.6 |
| 160° | 76.7 | 76.7 | 78.2 | 83.2 | 86.1 | 80.3 | 76.0 | *74.6* | 74.6 | 73.1 | 78.2 |
| 162.5° | 65.3 | 65.3 | 66.7 | 68.1 | 69.6 | 66.7 | 65.3 | *65.3* | 64.5 | 64.5 | 69.6 |
| 165° | 54.5 | 54.5 | 55.2 | 58.1 | 58.8 | 57.4 | 56.7 | *57.4* | 57.4 | 60.2 | 64.5 |
| 167.5° | 50.2 | 50.2 | 50.9 | 52.3 | 53.1 | 52.3 | 54.5 | *56.7* | 58.8 | 61.7 | 63.1 |
| 170° | 48.0 | 48.0 | 48.8 | 49.5 | 50.9 | 52.3 | 56.7 | *58.1* | 58.8 | 58.1 | 58.1 |
| 172.5° | 49.5 | 49.5 | 49.5 | 50.9 | 52.3 | 55.9 | 59.5 | *59.5* | 58.1 | 56.7 | 56.7 |
| 175° | 50.2 | 49.5 | 50.2 | 51.6 | 53.8 | 55.9 | 57.4 | *58.8* | 58.8 | 58.1 | 58.1 |
| 177.5° | 49.5 | 49.5 | 50.2 | 50.9 | 50.9 | 50.9 | 51.6 | *52.3* | 52.3 | 53.1 | 53.8 |
| 180° | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | *48.8* | 48.8 | 48.8 | 48.8 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 | 335.6 |
| 2.5° | 375.0 | 354.2 | 262.5 | 174.3 | 213.7 | 311.9 | 363.6 | 340.6 | 253.9 | 146.3 | 124.1 |
| 5° | 153.5 | 172.1 | 200.8 | 192.2 | 172.8 | 142.0 | 106.8 | 106.1 | 147.0 | 178.6 | 181.4 |
| 7.5° | 147.7 | 135.5 | 128.4 | 142.0 | 132.7 | 91.8 | 77.4 | 64.5 | 68.8 | 101.1 | 96.8 |
| 10° | 182.1 | 177.8 | 165.7 | 135.5 | 99.7 | 82.5 | 77.4 | 78.9 | 84.6 | 76.0 | 75.3 |
| 12.5° | 202.9 | 192.2 | 165.7 | 157.0 | 133.4 | 94.7 | 78.2 | 72.4 | 77.4 | 96.8 | 104.7 |
| 15° | 222.3 | 206.5 | 173.5 | 145.6 | 119.8 | 98.2 | 83.9 | 73.1 | 65.3 | 56.7 | 55.9 |
| 17.5° | 239.5 | 219.4 | 182.9 | 151.3 | 119.0 | 98.2 | 81.0 | 63.8 | 55.2 | 52.3 | 52.3 |
| 20° | 260.3 | 241.7 | 195.1 | 157.8 | 119.8 | 96.1 | 78.2 | 63.1 | 55.2 | 52.3 | 52.3 |
| 22.5° | 288.3 | 257.4 | 208.0 | 160.6 | 121.2 | 95.4 | 76.7 | 64.5 | 57.4 | 53.1 | 53.1 |
| 25° | 296.2 | 272.5 | 216.6 | 170.0 | 126.9 | 99.0 | 80.3 | 66.7 | 58.8 | 55.2 | 54.5 |
| 27.5° | 301.9 | 284.0 | 233.1 | 177.8 | 133.4 | 106.1 | 86.1 | 69.6 | 60.2 | 56.7 | 55.9 |
| 30° | 324.1 | 308.4 | 251.0 | 189.3 | 142.0 | 113.3 | 91.1 | 73.9 | 63.1 | 57.4 | 55.9 |
| 32.5° | 371.5 | 349.2 | 277.5 | 200.8 | 152.7 | 121.2 | 97.5 | 78.2 | 66.0 | 58.8 | 57.4 |
| 35° | 461.8 | 443.9 | 347.8 | 224.5 | 164.2 | 131.2 | 105.4 | 83.9 | 69.6 | 61.0 | 60.2 |
| 37.5° | 566.5 | 538.5 | 422.4 | 261.0 | 172.1 | 139.8 | 113.3 | 89.6 | 73.1 | 64.5 | 63.1 |
| 40° | 584.4 | 504.8 | 374.3 | 238.1 | 173.5 | 144.1 | 120.5 | 96.1 | 77.4 | 67.4 | 65.3 |
| 42.5° | 732.9 | 619.6 | 433.8 | 246.0 | 177.1 | 144.1 | 121.9 | 100.4 | 81.7 | 69.6 | 68.1 |
| 45° | 775.2 | 617.4 | 431.7 | 274.6 | 194.3 | 148.4 | 122.6 | 102.5 | 85.3 | 73.1 | 71.0 |
| 47.5° | 988.2 | 757.3 | 438.1 | 291.9 | 212.3 | 163.5 | 127.6 | 104.0 | 86.1 | 75.3 | 74.6 |
| 50° | 1412.7 | 1012.5 | 527.1 | 352.1 | 254.6 | 190.7 | 143.4 | 109.0 | 87.5 | 77.4 | 76.7 |
| 52.5° | 1744.7 | 1202.6 | 565.8 | 421.7 | 324.1 | 242.4 | 171.4 | 121.9 | 90.4 | 78.2 | 76.7 |
| 55° | 2073.9 | 1434.2 | 637.5 | 497.7 | 385.8 | 291.9 | 213.0 | 142.7 | 97.5 | 79.6 | 78.2 |
| 57.5° | 2575.8 | 1721.8 | 726.4 | 572.2 | 457.5 | 338.5 | 238.1 | 161.3 | 106.1 | 81.0 | 78.9 |
| 60° | 2880.6 | 1823.6 | 735.7 | 610.3 | 498.4 | 371.5 | 246.7 | 168.5 | 116.9 | 86.8 | 83.2 |
| 62.5° | 3154.5 | 1915.4 | 742.2 | 627.5 | 505.6 | 375.0 | 247.4 | 162.8 | 119.0 | 95.4 | 91.1 |
| 65° | *3225.5* | *1840.8* | *748.7* | *633.2* | *492.6* | *354.2* | *238.1* | *157.0* | *113.3* | *103.3* | *102.5* |
| 67.5° | 3064.9 | 1650.8 | 704.2 | 611.7 | 458.2 | 318.4 | 214.4 | 149.2 | 110.4 | 100.4 | 102.5 |
| 70° | 2387.9 | 1310.9 | 645.4 | 563.6 | 395.8 | 268.9 | 190.7 | 139.1 | 109.0 | 95.4 | 93.2 |
| 72.5° | 1881.7 | 1115.1 | 651.8 | 537.1 | 334.2 | 238.1 | 168.5 | 126.9 | 103.3 | 93.2 | 91.8 |
| 75° | 1465.8 | 934.4 | 627.5 | 462.5 | 271.1 | 202.9 | 147.7 | 113.3 | 96.1 | 89.6 | 88.9 |
| 77.5° | 1074.9 | 741.5 | 517.7 | 356.4 | 223.7 | 169.2 | 129.1 | 104.0 | 91.1 | 85.3 | 84.6 |
| 80° | 704.9 | 524.2 | 360.7 | 284.7 | 192.9 | 152.7 | 117.6 | 97.5 | 87.5 | 82.5 | 81.7 |
| 82.5° | 599.5 | 465.4 | 320.5 | 261.7 | 178.6 | 147.0 | 115.5 | 95.4 | 86.8 | 81.0 | 80.3 |
| 85° | 578.0 | 476.9 | 327.7 | 271.1 | 170.0 | 140.6 | 111.9 | 93.9 | 84.6 | 79.6 | 78.9 |
| 87.5° | 542.8 | 431.7 | 317.0 | 243.1 | 157.0 | 128.4 | 104.7 | 90.4 | 81.0 | 76.7 | 75.3 |
| 90° | 483.3 | 369.3 | 272.5 | 208.7 | 149.2 | 120.5 | 99.0 | 86.1 | 78.9 | 74.6 | 73.1 |
| 92.5° | 390.1 | 280.4 | 214.4 | 184.3 | 145.6 | 119.8 | 98.2 | 86.1 | 78.9 | 74.6 | 73.1 |
| 95° | 327.7 | 240.2 | 192.2 | 168.5 | 135.5 | 113.3 | 93.9 | 83.2 | 76.7 | 72.4 | 72.4 |
| 97.5° | 259.6 | 200.8 | 171.4 | 151.3 | 121.9 | 103.3 | 88.9 | 79.6 | 73.9 | 69.6 | 69.6 |
| 100° | 230.2 | 186.4 | 162.8 | 142.0 | 115.5 | 97.5 | 86.8 | 77.4 | 72.4 | 67.4 | 67.4 |
| 102.5° | 218.7 | 180.7 | 160.6 | 134.8 | 110.4 | 93.9 | 83.2 | 74.6 | 70.3 | 65.3 | 65.3 |
| 105° | 211.5 | 178.6 | 159.2 | 131.2 | 105.4 | 89.6 | 79.6 | 71.0 | 67.4 | 63.8 | 63.1 |
| 107.5° | 204.4 | 175.7 | 161.3 | 129.1 | 101.1 | 86.8 | 79.6 | 70.3 | 66.0 | 63.1 | 63.1 |
| 110° | 200.8 | 177.1 | 160.6 | 126.9 | 99.7 | 86.1 | 78.9 | 71.0 | 67.4 | 64.5 | 63.8 |

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

Scaled Data Report

REPORT NUMBER: P1046608
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T3-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 191.5 | 169.2 | 153.5 | 120.5 | 97.5 | 83.9 | 76.0 | 70.3 | 65.3 | 62.4 | 61.7 |
| 115° | 182.1 | 155.6 | 140.6 | 114.7 | 92.5 | 81.0 | 73.9 | 68.1 | 63.1 | 61.0 | 61.0 |
| 117.5° | 185.7 | 152.0 | 129.1 | 112.6 | 91.1 | 78.9 | 72.4 | 66.7 | 62.4 | 61.0 | 60.2 |
| 120° | 183.6 | 159.9 | 144.9 | 120.5 | 90.4 | 76.7 | 71.0 | 65.3 | 61.7 | 61.0 | 61.0 |
| 122.5° | 175.7 | 172.8 | 159.2 | 122.6 | 87.5 | 77.4 | 72.4 | 67.4 | 63.8 | 61.7 | 61.7 |
| 125° | 169.2 | 167.8 | 148.4 | 110.4 | 89.6 | 80.3 | 76.0 | 71.0 | 68.8 | 66.7 | 66.0 |
| 127.5° | 156.3 | 140.6 | 123.3 | 106.1 | 91.1 | 81.7 | 77.4 | 74.6 | 72.4 | 68.8 | 68.1 |
| 130° | 157.0 | 144.1 | 126.9 | 106.8 | 87.5 | 80.3 | 78.2 | 75.3 | 71.7 | 66.0 | 65.3 |
| 132.5° | 170.7 | 157.0 | 126.2 | 99.0 | 83.9 | 80.3 | 78.9 | 75.3 | 67.4 | 61.0 | 60.2 |
| 135° | 142.0 | 132.7 | 111.9 | 94.7 | 85.3 | 83.2 | 82.5 | 74.6 | 63.1 | 58.8 | 58.1 |
| 137.5° | 138.4 | 124.8 | 107.6 | 95.4 | 88.9 | 84.6 | 81.7 | 71.7 | 58.8 | 54.5 | 53.1 |
| 140° | 130.5 | 117.6 | 105.4 | 96.8 | 86.1 | 71.7 | 65.3 | 60.2 | 54.5 | 50.9 | 50.2 |
| 142.5° | 130.5 | 118.3 | 99.7 | 85.3 | 74.6 | 66.7 | 63.1 | 58.8 | 52.3 | 47.3 | 45.9 |
| 145° | 154.2 | 139.8 | 120.5 | 108.3 | 96.8 | 84.6 | 72.4 | 59.5 | 48.8 | 42.3 | 41.6 |
| 147.5° | 175.0 | 157.8 | 142.7 | 122.6 | 104.0 | 83.9 | 66.7 | 52.3 | 44.5 | 41.6 | 41.6 |
| 150° | 143.4 | 127.6 | 119.8 | 102.5 | 86.1 | 68.8 | 56.7 | 48.8 | 44.5 | 43.0 | 43.0 |
| 152.5° | 107.6 | 90.4 | 84.6 | 75.3 | 65.3 | 56.7 | 50.9 | 46.6 | 45.2 | 44.5 | 44.5 |
| 155° | 100.4 | 86.1 | 78.9 | 70.3 | 60.2 | 53.1 | 49.5 | 47.3 | 45.9 | 45.2 | 45.2 |
| 157.5° | 87.5 | 79.6 | 70.3 | 63.8 | 56.7 | 51.6 | 49.5 | 48.0 | 46.6 | 45.9 | 45.9 |
| 160° | 78.2 | 72.4 | 63.8 | 58.8 | 53.8 | 51.6 | 51.6 | 50.9 | 48.8 | 48.0 | 48.0 |
| 162.5° | 70.3 | 68.1 | 60.2 | 55.9 | 53.8 | 54.5 | 58.1 | 57.4 | 53.8 | 50.9 | 50.2 |
| 165° | 65.3 | 63.1 | 57.4 | 55.2 | 53.8 | 56.7 | 63.8 | 62.4 | 56.7 | 53.1 | 53.1 |
| 167.5° | 62.4 | 61.0 | 56.7 | 54.5 | 55.2 | 61.0 | 67.4 | 68.1 | 63.1 | 58.1 | 57.4 |
| 170° | 57.4 | 57.4 | 56.7 | 57.4 | 57.4 | 60.2 | 63.8 | 66.0 | 66.0 | 67.4 | 66.7 |
| 172.5° | 56.7 | 57.4 | 59.5 | 59.5 | 58.8 | 59.5 | 62.4 | 66.0 | 68.1 | 70.3 | 71.0 |
| 175° | 58.1 | 58.8 | 60.2 | 61.0 | 61.0 | 62.4 | 66.7 | 69.6 | 71.0 | 70.3 | 70.3 |
| 177.5° | 53.8 | 54.5 | 55.2 | 58.1 | 59.5 | 61.0 | 65.3 | 66.7 | 68.1 | 69.6 | 69.6 |
| 180° | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

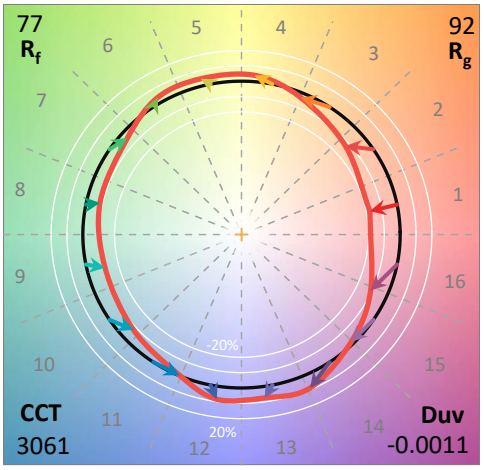
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-4 |
| 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-100-730-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3061 |
| CIE u': | 0.2489 |
| CIE v': | 0.5187 |
| Duv: | -0.0011 |
| CIE x: | 0.4312 |
| CIE y: | 0.3995 |
| CIE z: | 0.1693 |
| Peak Wavelength (nm): | 592 |
| Dominant Wavelength (nm): | 582 |
| Purity: | 49.32381 |
| Rf: | 76.8 |
| Rg: | 92.2 |

| | |
|---|---|
| CRI (Ra): | 71.7 |
| R1: | 67.8 |
| R2: | 85.0 |
| R3: | 92.9 |
| R4: | 66.0 |
| R5: | 68.5 |
| R6: | 80.2 |
| R7: | 74.5 |
| R8: | 39.0 |
| R9: | -40.3 |
| R10: | 67.2 |
| R11: | 61.6 |
| R12: | 59.9 |
| R13: | 71.4 |
| R14: | 96.3 |
| R15: | 58.8 |




## Test Conditions

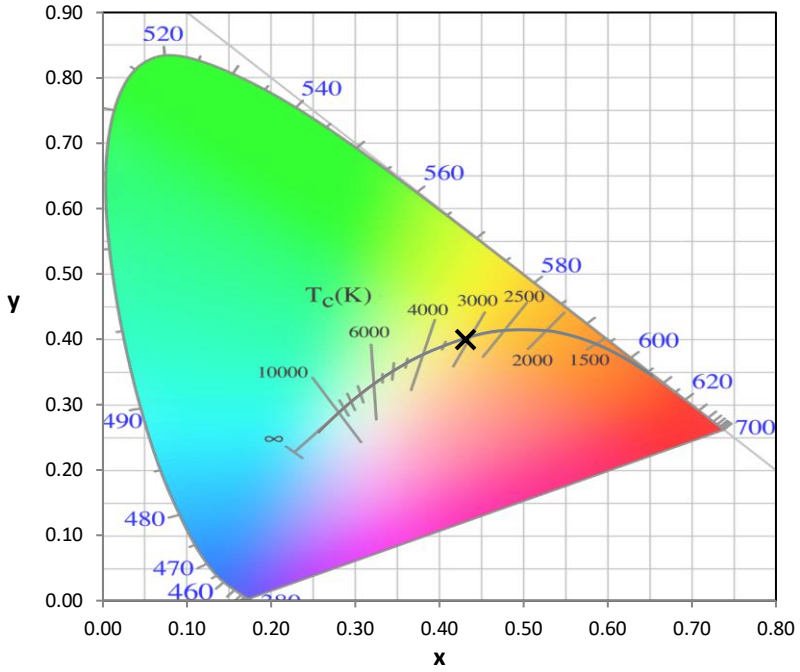
| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 1H 56M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-4

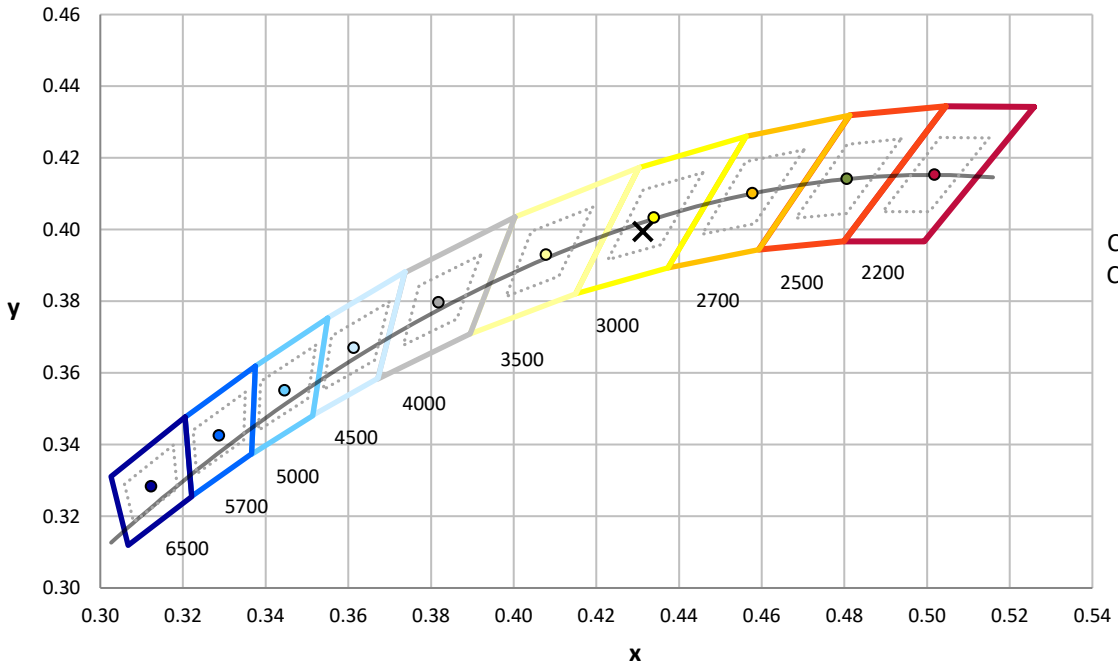
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-4

## CIE 1931 Chromaticity Diagram




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

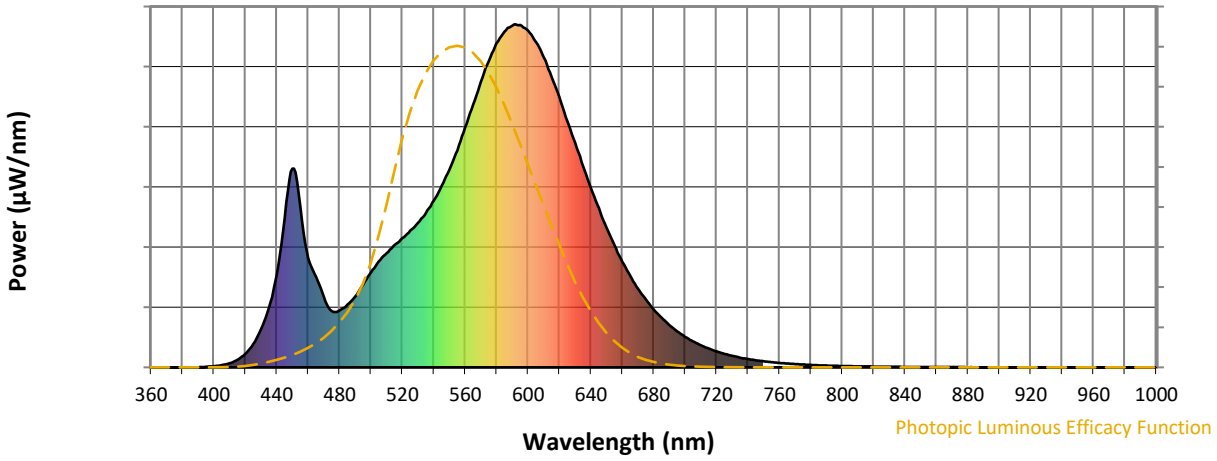



CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

## Photopic Flux vs. Wavelength

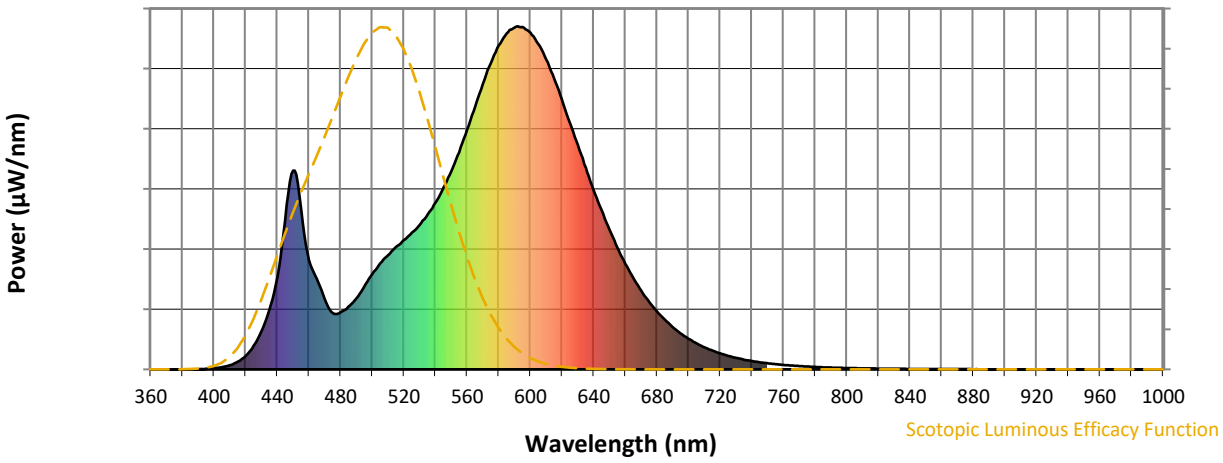



## Photopic Lumens: NR

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Scotopic Flux vs. Wavelength

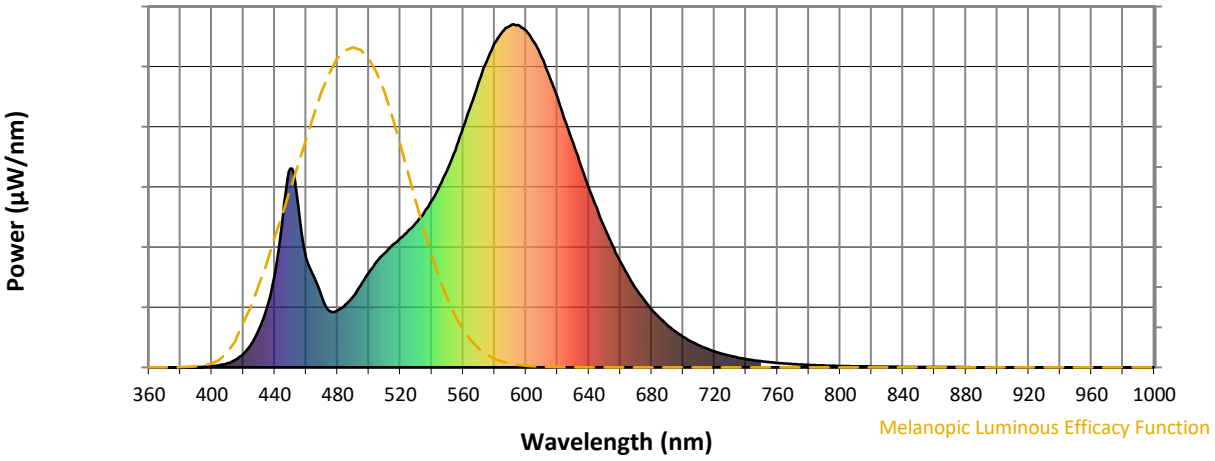



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.47**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

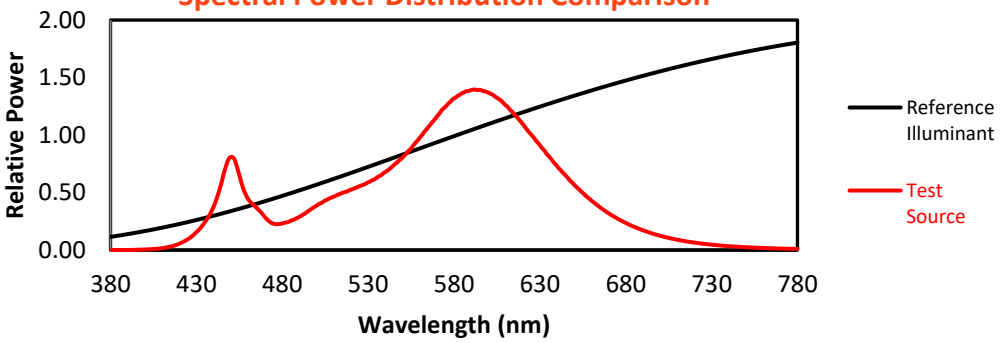
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

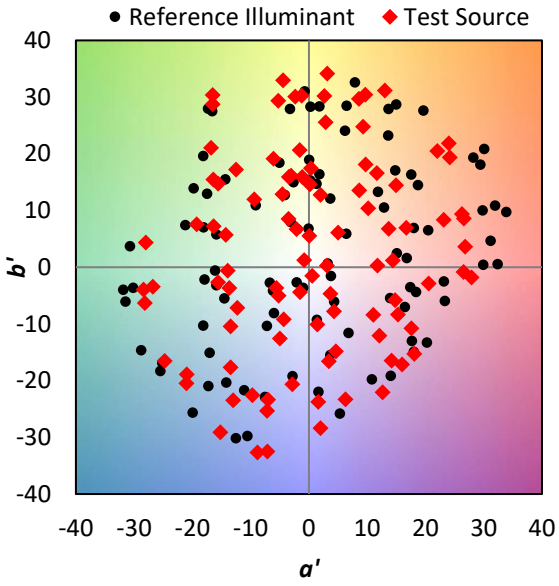
## Summary

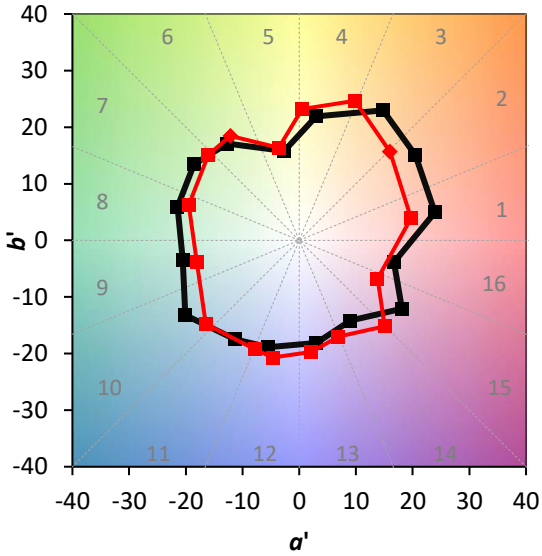
$R_f$ = 76.8
$R_g$ = 92.2
CIE $R_a$ = 71.7
$R_9$ = -40.3

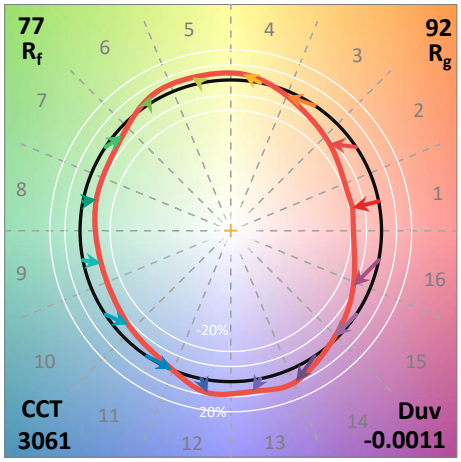
## Spectral Power Distribution Comparison

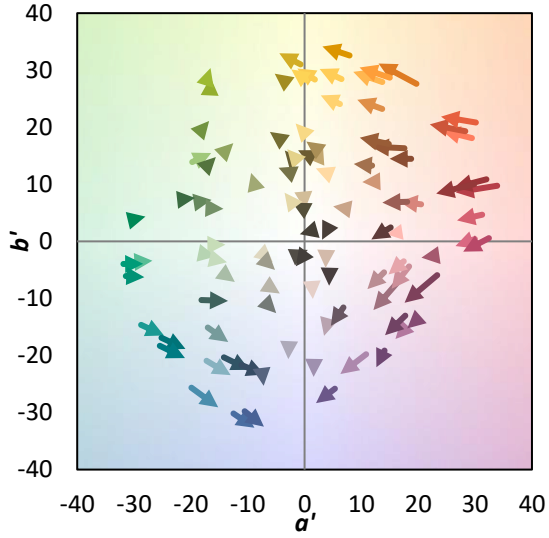



## Color Vector Graphics



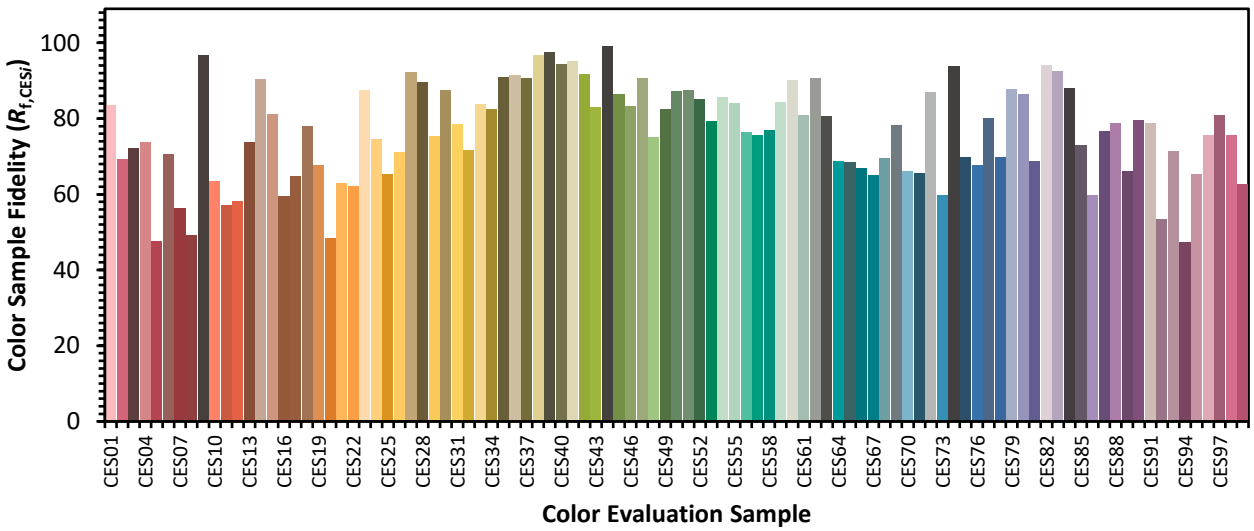



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**Individual Sample Fidelity Index ($R_{f,i}$)**

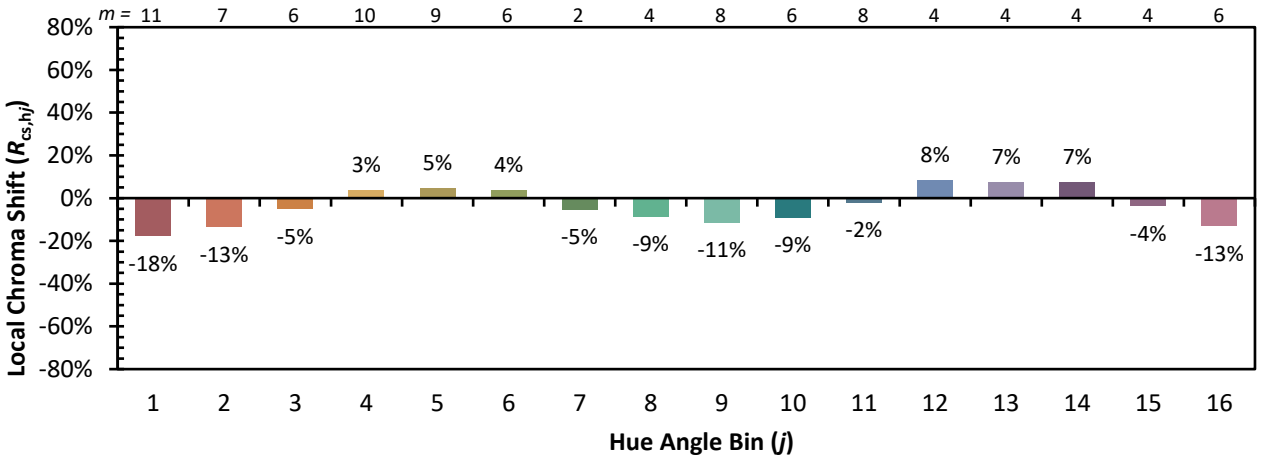
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 71 | CES51 = 88 | CES76 = 68 |
| CES02 = 62 | CES27 = 92 | CES52 = 85 | CES77 = 80 |
| CES03 = 31 | CES28 = 90 | CES53 = 79 | CES78 = 70 |
| CES04 = 71 | CES29 = 75 | CES54 = 86 | CES79 = 88 |
| CES05 = 49 | CES30 = 87 | CES55 = 84 | CES80 = 87 |
| CES06 = 51 | CES31 = 79 | CES56 = 76 | CES81 = 69 |
| CES07 = 41 | CES32 = 72 | CES57 = 76 | CES82 = 94 |
| CES08 = 40 | CES33 = 84 | CES58 = 77 | CES83 = 92 |
| CES09 = 29 | CES34 = 83 | CES59 = 84 | CES84 = 88 |
| CES10 = 76 | CES35 = 91 | CES60 = 90 | CES85 = 73 |
| CES11 = 59 | CES36 = 92 | CES61 = 81 | CES86 = 60 |
| CES12 = 65 | CES37 = 91 | CES62 = 91 | CES87 = 77 |
| CES13 = 43 | CES38 = 97 | CES63 = 81 | CES88 = 79 |
| CES14 = 74 | CES39 = 98 | CES64 = 69 | CES89 = 66 |
| CES15 = 71 | CES40 = 94 | CES65 = 69 | CES90 = 80 |
| CES16 = 47 | CES41 = 95 | CES66 = 67 | CES91 = 79 |
| CES17 = 50 | CES42 = 92 | CES67 = 65 | CES92 = 53 |
| CES18 = 56 | CES43 = 83 | CES68 = 70 | CES93 = 71 |
| CES19 = 73 | CES44 = 99 | CES69 = 78 | CES94 = 47 |
| CES20 = 66 | CES45 = 87 | CES70 = 66 | CES95 = 65 |
| CES21 = 87 | CES46 = 83 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 91 | CES72 = 87 | CES97 = 81 |
| CES23 = 92 | CES48 = 75 | CES73 = 60 | CES98 = 76 |
| CES24 = 91 | CES49 = 83 | CES74 = 94 | CES99 = 63 |
| CES25 = 73 | CES50 = 87 | CES75 = 70 | |

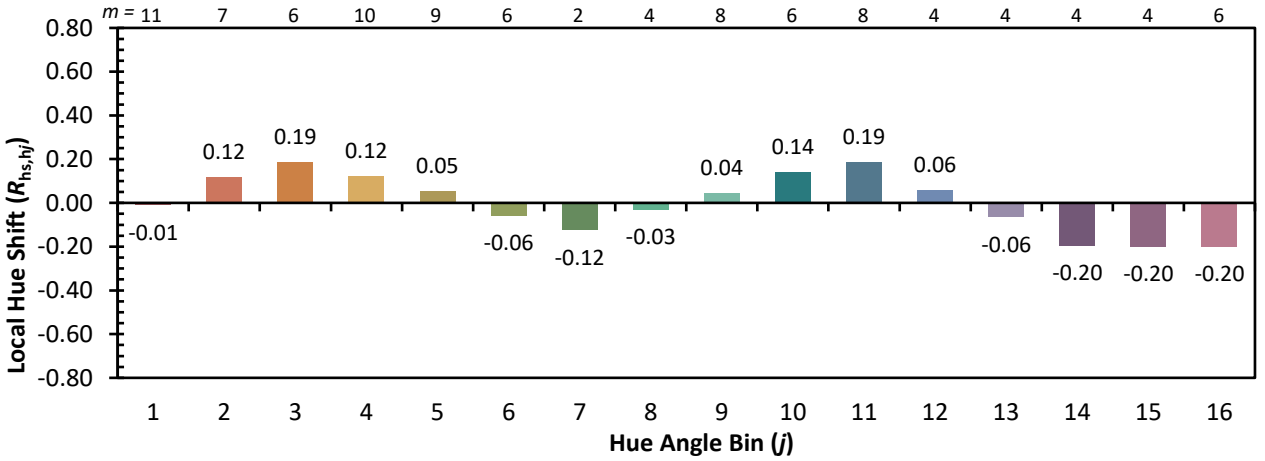


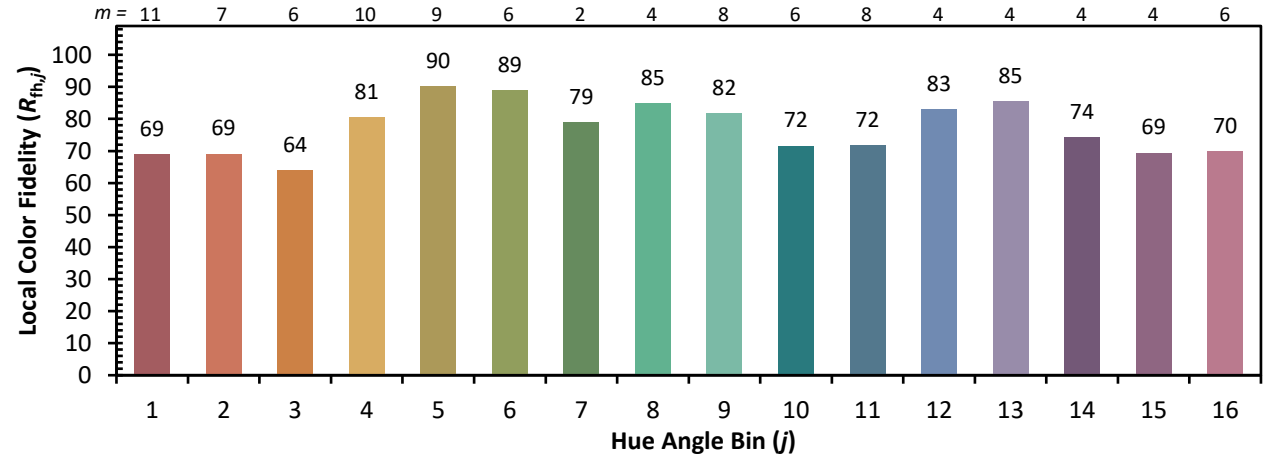
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## Color Rendition by Hue-Angle Bin



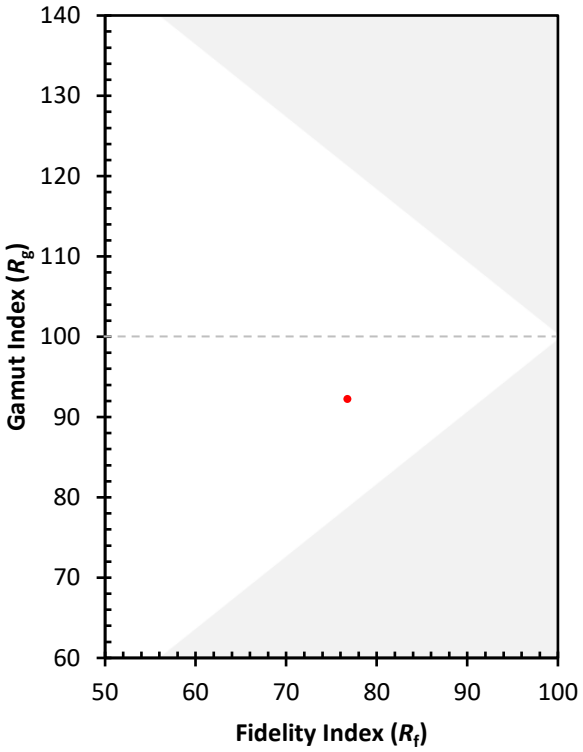



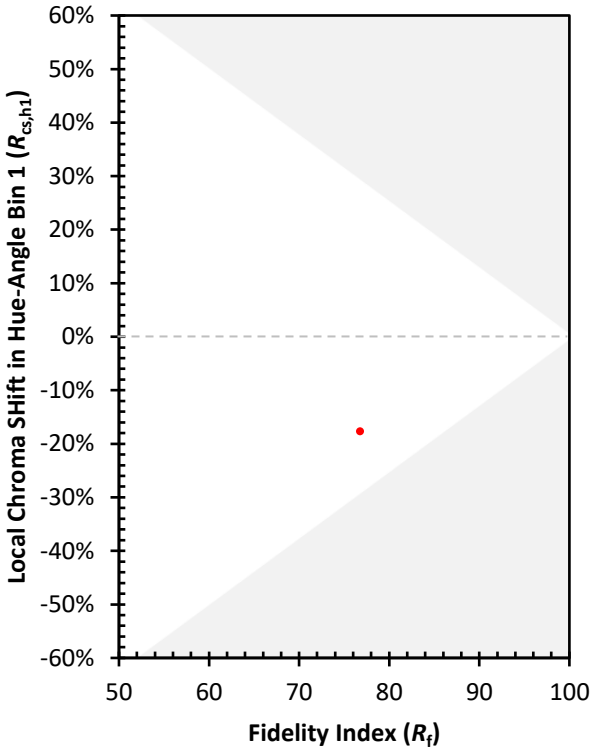



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## Measure Comparisons




(END OF REPORT)