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: P1046562

Luminaire Tested: **FFX-CLB-80-730-U-FR-T3-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1046562 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-80-730-U-FR-T3-UPLR-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD |
| Light Source: | (4) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11137.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 136.2 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U5 - G4 |

| | |
|---|---|
| Input Watts (W): | 81.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 6.01% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

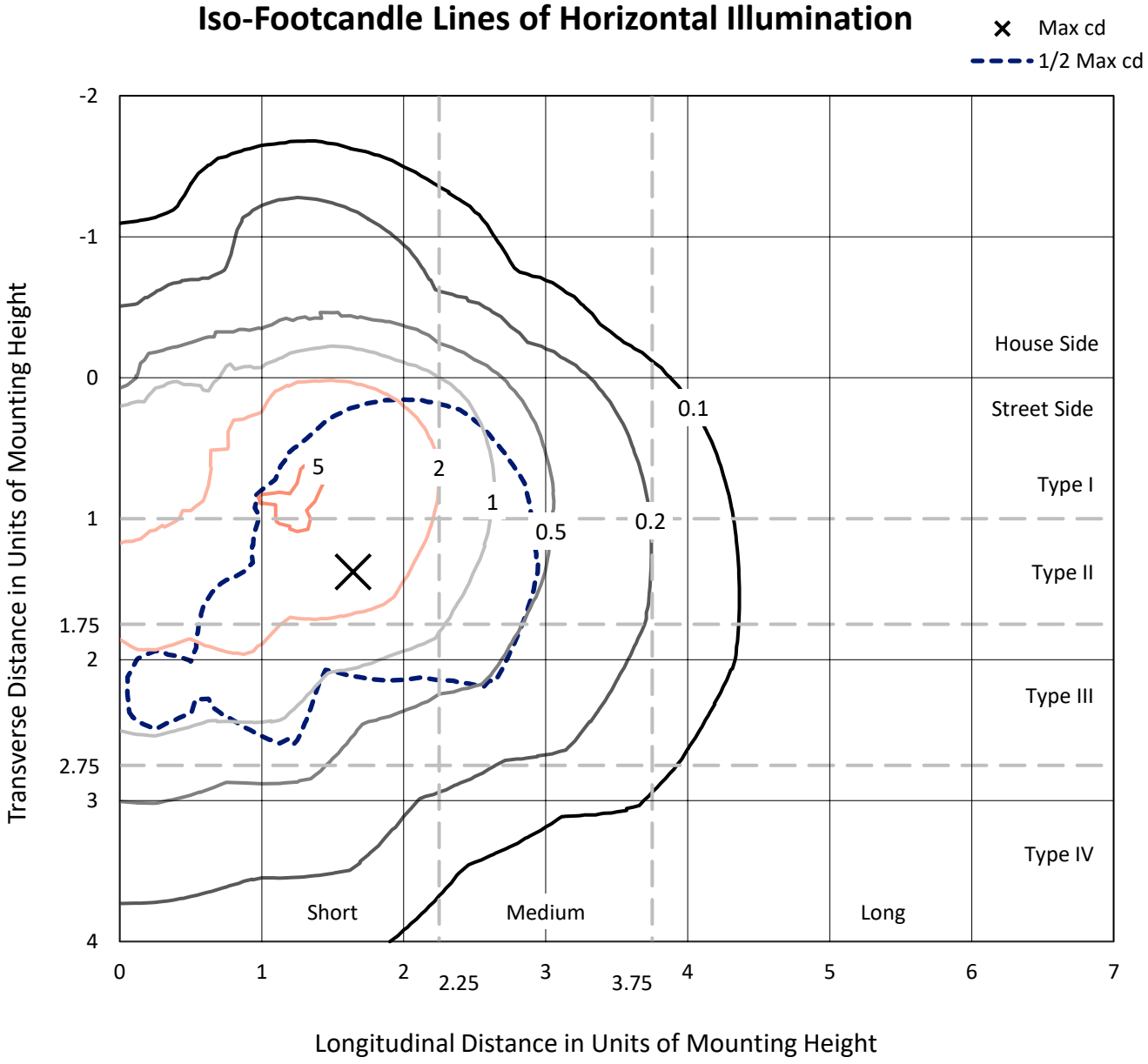


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## Iso-Footcandle Lines of Horizontal Illumination



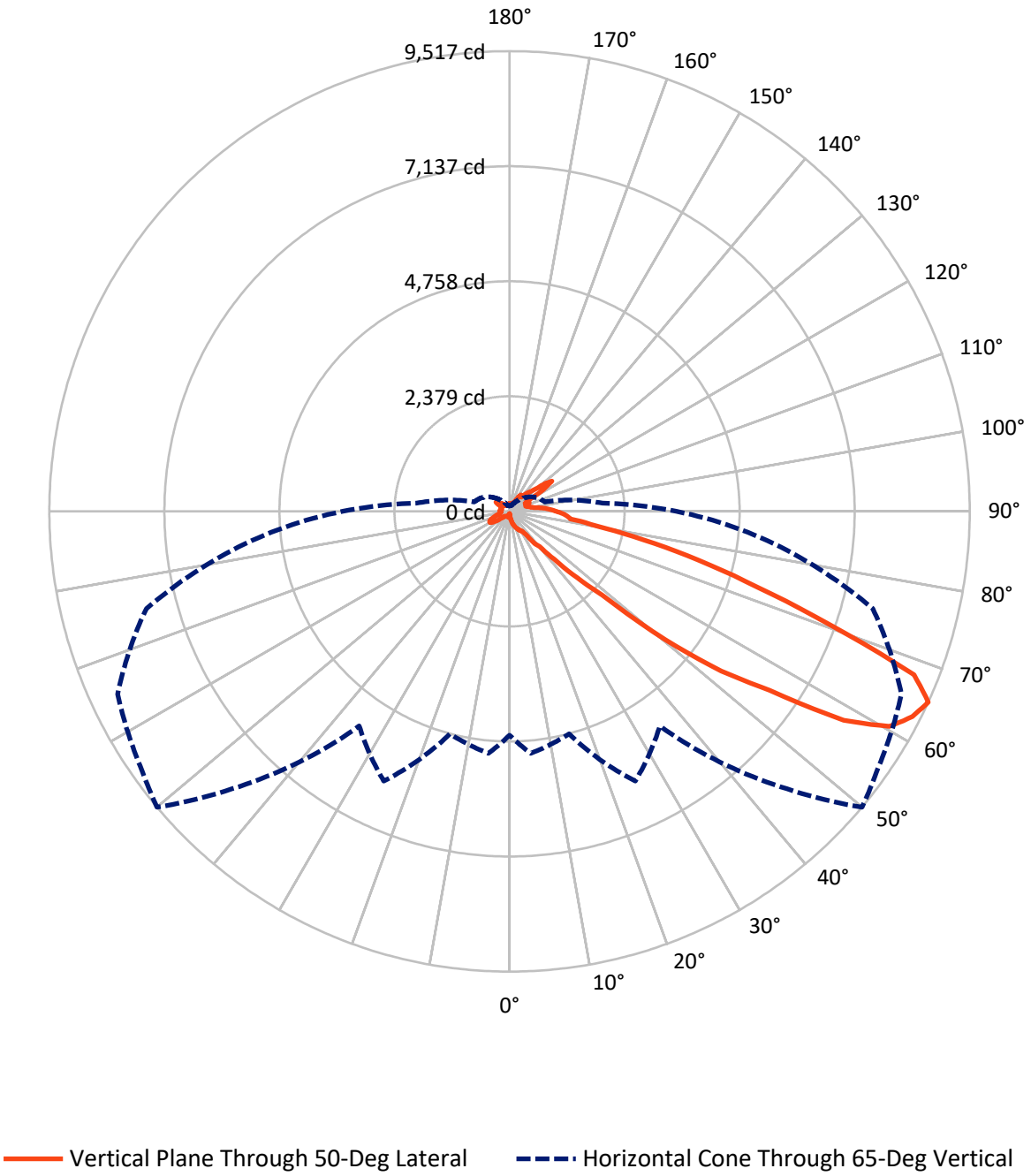

Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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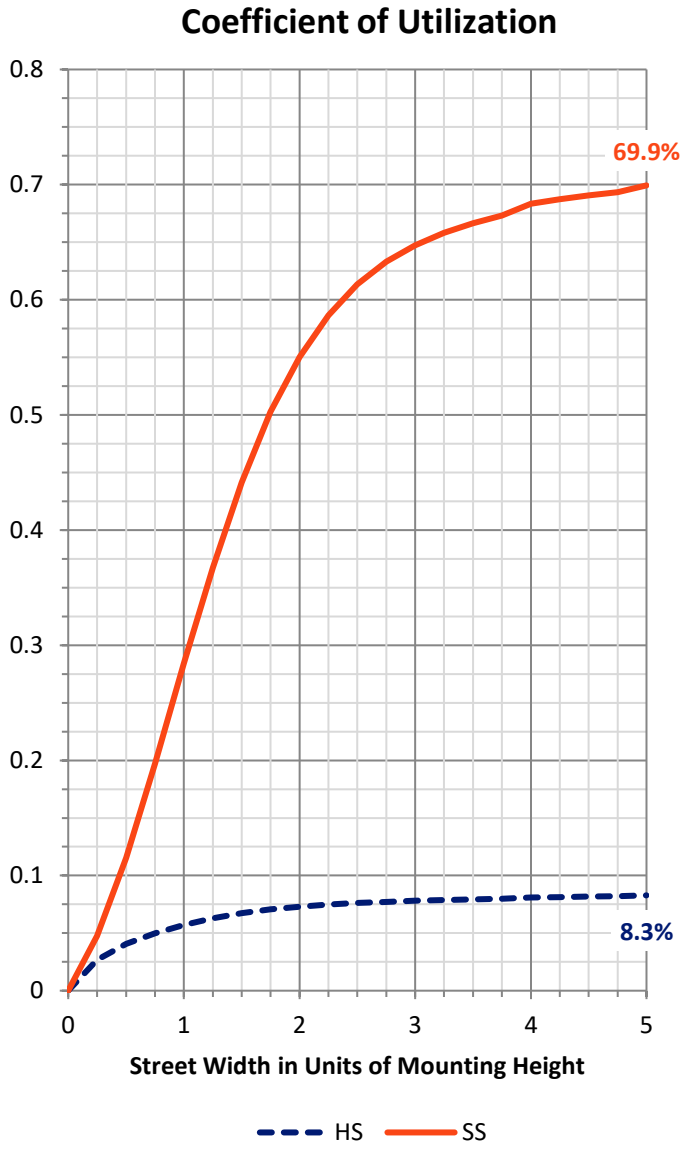
REPORT NUMBER: P1046562
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 977.0 | 643.1 | 1620.1 |
| | % Fixture | 8.8 | 5.8 | 14.5 |
| **Street Side** | Lumens | 8056.8 | 1460.9 | 9517.7 |
| | % Fixture | 72.3 | 13.1 | 85.5 |
| **Total** | Lumens | 9033.8 | 2104.1 | 11137.8 |
| | % Fixture | 81.1 | 18.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 10.6 | 0.1 |
| 10°-20° | 58.1 | 0.5 |
| 20°-30° | 124.1 | 1.1 |
| 30°-40° | 247.8 | 2.2 |
| 40°-50° | 649.3 | 5.8 |
| 50°-60° | 2151.0 | 19.3 |
| 60°-70° | 3392.4 | 30.5 |
| 70°-80° | 1771.4 | 15.9 |
| 80°-90° | 629.0 | 5.6 |
| 90°-100° | 405.9 | 3.6 |
| 100°-110° | 273.9 | 2.5 |
| 110°-120° | 312.5 | 2.8 |
| 120°-130° | 517.8 | 4.6 |
| 130°-140° | 295.7 | 2.7 |
| 140°-150° | 162.0 | 1.5 |
| 150°-160° | 79.3 | 0.7 |
| 160°-170° | 42.0 | 0.4 |
| 170°-180° | 15.1 | 0.1 |
| 0°-90° | 9033.8 | 81.1 |
| 0°-180° | 11137.8 | 100.0 |



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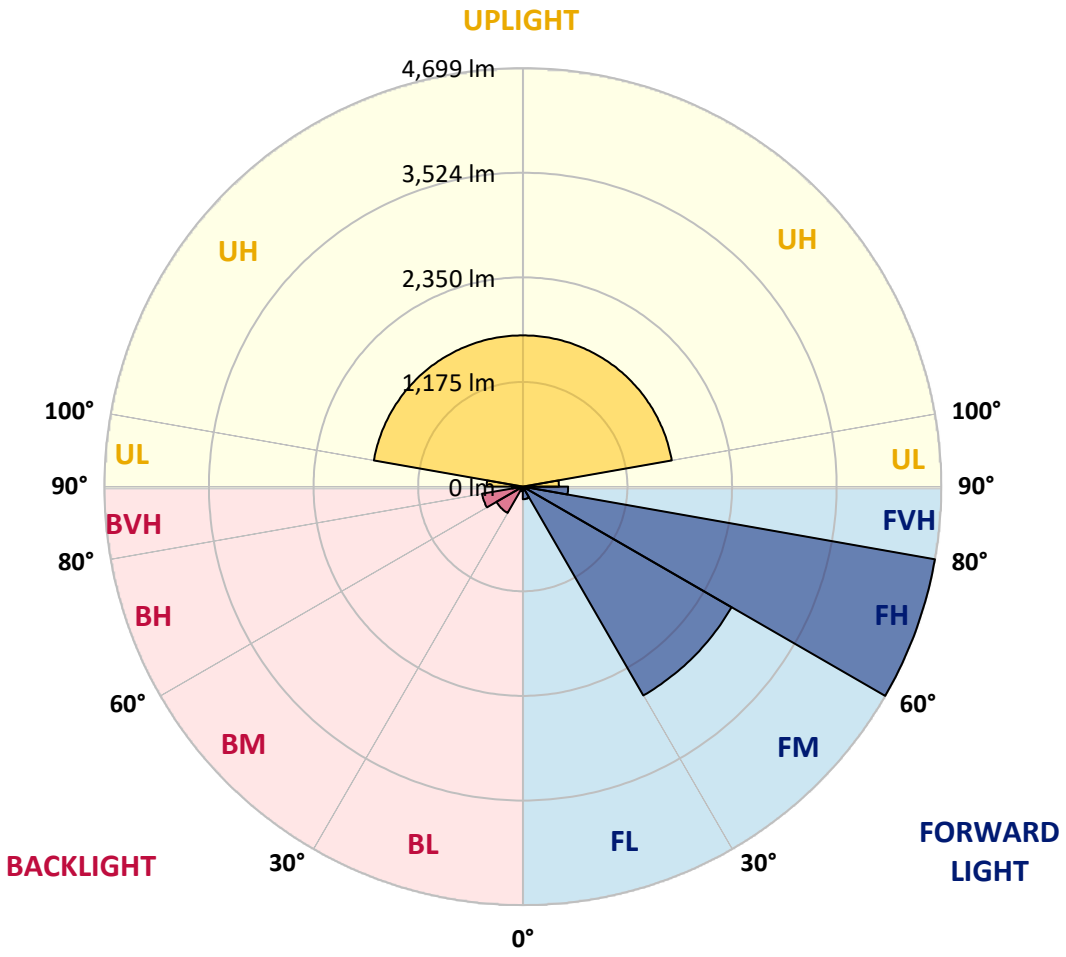
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 141.7 | 1.3 | | | |
| FM | (30°-60°) | 2706.7 | 24.3 | | | |
| FH | (60°-80°) | 4699.1 | 42.2 | | | G2/5000 |
| FVH | (80°-90°) | 509.3 | 4.6 | | | G4/750 |
| BL | (0°-30°) | 51.2 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 341.5 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 464.6 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 119.7 | 1.1 | | | G2/225 |
| UL | (90°-100°) | 405.9 | 3.6 | | U3/500 | |
| UH | (100°-180°) | 1698.1 | 15.2 | | U5 | |

**BUG Rating: B1-U5-G4**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 |
| 2.5° | 75.6 | 74.8 | 76.4 | 78.7 | 77.9 | 75.6 | 74.0 | 73.2 | 70.8 | 70.1 | 67.7 |
| 5° | 111.8 | 111.0 | 109.4 | 111.0 | 111.8 | 108.6 | 107.1 | 103.1 | 99.2 | 92.1 | 88.2 |
| 7.5° | 156.6 | 157.4 | 159.0 | 155.1 | 153.5 | 146.4 | 144.8 | 140.9 | 134.6 | 125.9 | 123.6 |
| 10° | 212.5 | 213.3 | 217.3 | 211.0 | 200.7 | 192.1 | 190.5 | 192.1 | 199.1 | 177.1 | 163.7 |
| 12.5° | 267.6 | 265.3 | 277.1 | 273.9 | 260.5 | 248.0 | 241.7 | 242.4 | 239.3 | 222.8 | 200.7 |
| 15° | 318.8 | 318.8 | 327.5 | 330.6 | 316.4 | 287.3 | 277.9 | 275.5 | 273.9 | 256.6 | 225.9 |
| 17.5° | 351.1 | 352.6 | 353.4 | 353.4 | 348.7 | 324.3 | 313.3 | 308.6 | 294.4 | 278.6 | 250.3 |
| 20° | 377.8 | 378.6 | 371.5 | 372.3 | 379.4 | 358.2 | 347.1 | 337.7 | 322.7 | 306.2 | 270.8 |
| 22.5° | 414.8 | 413.3 | 402.2 | 397.5 | 413.3 | 395.1 | 383.3 | 373.1 | 355.0 | 336.1 | 303.8 |
| 25° | 455.8 | 454.2 | 443.2 | 431.4 | 442.4 | 425.8 | 413.3 | 403.8 | 387.3 | 374.7 | 308.6 |
| 27.5° | 495.1 | 493.5 | 474.6 | 473.1 | 463.6 | 455.8 | 442.4 | 440.0 | 427.4 | 390.4 | 306.2 |
| 30° | 524.2 | 522.7 | 502.2 | 503.0 | 478.6 | 484.9 | 465.2 | 463.6 | 448.7 | 399.9 | 311.7 |
| 32.5° | 535.3 | 536.8 | 528.2 | 524.2 | 491.2 | 516.4 | 498.3 | 492.0 | 488.0 | 425.1 | 339.3 |
| 35° | 575.4 | 588.0 | 601.4 | 606.1 | 576.2 | 623.4 | 586.4 | 581.7 | 591.1 | 517.2 | 423.5 |
| 37.5° | 884.7 | 878.5 | 828.9 | 758.8 | 743.1 | 847.0 | 841.5 | 845.4 | 839.1 | 736.0 | 560.4 |
| 40° | 885.5 | 889.5 | 858.0 | 815.5 | 765.9 | 872.2 | 953.2 | 881.6 | 986.3 | 802.1 | 614.8 |
| 42.5° | 930.4 | 917.8 | 992.6 | 1009.1 | 954.0 | 1112.2 | 1351.5 | 1081.5 | 1307.4 | 977.6 | 836.7 |
| 45° | 1101.2 | 1101.2 | 1114.6 | 1122.5 | 1102.8 | 1500.3 | 1963.1 | 1509.0 | 1747.5 | 1223.2 | 1004.4 |
| 47.5° | 1277.5 | 1262.6 | 1338.9 | 1467.2 | 1543.6 | 1930.9 | 2591.3 | 1993.8 | 2370.1 | 1644.3 | 1394.0 |
| 50° | 1781.3 | 1802.6 | 1949.0 | 2098.5 | 2212.7 | 2874.6 | 4171.9 | 3416.2 | 3871.2 | 2528.3 | 2128.4 |
| 52.5° | 2172.5 | 2296.9 | 2409.4 | 2829.0 | 2880.2 | 3927.8 | 5484.0 | 4583.5 | 4959.8 | 3552.4 | 2635.4 |
| 55° | 2576.3 | 2822.7 | 2889.6 | 3630.3 | 3688.6 | 5047.2 | 6528.6 | 5806.0 | 5912.2 | 4683.5 | 3128.9 |
| 57.5° | 3316.2 | 3660.2 | 3683.0 | 4473.3 | 4471.0 | 6502.6 | 8150.9 | 7560.5 | 7480.2 | 5964.2 | 3885.3 |
| 60° | 3953.0 | 4345.0 | 4204.9 | 5299.8 | 5054.3 | 7575.5 | 9030.1 | 8435.0 | 8259.5 | 6991.4 | 4417.5 |
| 62.5° | 4339.5 | 4722.1 | 4549.7 | 5844.5 | 5426.6 | 8088.7 | 9348.1 | 9001.0 | 8701.9 | 7613.3 | 4851.2 |
| 65° | 4627.6 | 5022.0 | 4763.8 | 6153.9 | 5419.5 | 8113.9 | 9516.6 | 9292.2 | 8942.0 | 7775.4 | 4946.4 |
| 67.5° | 4589.8 | 4974.7 | 4665.4 | 6031.1 | 5040.9 | 7388.9 | 9021.5 | 8742.0 | 8309.1 | 7149.6 | 4626.0 |
| 70° | 3979.8 | 4212.0 | 3872.0 | 5136.9 | 4030.2 | 5715.5 | 7027.6 | 6866.3 | 6449.9 | 5473.0 | 3578.4 |
| 72.5° | 3350.1 | 3407.5 | 3088.8 | 4020.7 | 3142.3 | 4164.0 | 5340.0 | 5167.6 | 4894.5 | 4061.7 | 2704.6 |
| 75° | 2587.3 | 2587.3 | 2404.7 | 3014.8 | 2334.7 | 2954.9 | 4042.0 | 3997.9 | 3829.5 | 3047.8 | 2053.7 |
| 77.5° | 1747.5 | 1656.2 | 1628.6 | 2036.3 | 1612.9 | 1949.8 | 2814.0 | 2917.9 | 2873.9 | 2182.0 | 1497.1 |
| 80° | 1018.6 | 1040.6 | 1002.0 | 1257.1 | 1061.1 | 1275.2 | 1805.7 | 1942.7 | 1938.7 | 1449.1 | 982.4 |
| 82.5° | 794.2 | 810.0 | 769.8 | 905.2 | 810.0 | 1003.6 | 1265.7 | 1257.1 | 1287.0 | 1050.0 | 739.1 |
| 85° | 782.4 | 794.2 | 752.5 | 836.7 | 777.7 | 953.2 | 1189.4 | 1187.0 | 1180.7 | 972.1 | 694.3 |
| 87.5° | 711.6 | 727.3 | 691.1 | 758.8 | 705.3 | 870.6 | 1080.7 | 1093.3 | 1075.2 | 911.5 | 667.5 |
| 90° | 595.1 | 611.6 | 595.9 | 674.6 | 619.5 | 750.9 | 939.8 | 949.3 | 933.6 | 812.3 | 602.2 |
| 92.5° | 535.3 | 546.3 | 527.4 | 595.9 | 537.6 | 659.6 | 830.4 | 835.9 | 811.5 | 714.7 | 521.1 |
| 95° | 493.5 | 504.6 | 480.9 | 531.3 | 474.6 | 581.7 | 706.9 | 725.0 | 688.8 | 603.0 | 443.9 |
| 97.5° | 410.1 | 403.0 | 393.6 | 436.9 | 392.8 | 458.1 | 540.8 | 554.1 | 531.3 | 467.6 | 353.4 |
| 100° | 355.0 | 357.4 | 353.4 | 384.9 | 344.8 | 393.6 | 458.1 | 463.6 | 454.2 | 407.7 | 319.6 |
| 102.5° | 344.0 | 344.8 | 351.9 | 373.1 | 326.7 | 362.1 | 417.2 | 420.3 | 418.0 | 373.9 | 295.2 |
| 105° | 340.8 | 340.0 | 344.0 | 366.8 | 318.8 | 331.4 | 384.1 | 385.7 | 377.8 | 347.9 | 276.3 |
| 107.5° | 321.9 | 324.3 | 323.5 | 344.0 | 313.3 | 314.9 | 348.7 | 347.9 | 346.3 | 318.8 | 261.3 |
| 110° | 369.2 | 365.2 | 348.7 | 349.5 | 319.6 | 327.5 | 361.3 | 357.4 | 349.5 | 333.0 | 284.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 525.0 | 514.0 | 495.1 | 432.9 | 401.4 | 423.5 | *446.3* | 450.2 | 441.6 | 426.6 | 360.5 |
| 115° | 582.5 | 580.9 | 559.7 | 518.7 | 414.8 | 422.7 | *437.7* | 443.9 | 454.2 | 425.1 | 369.2 |
| 117.5° | 477.8 | 503.8 | 470.7 | 476.2 | 417.2 | 366.8 | *364.4* | 351.9 | 357.4 | 354.2 | 341.6 |
| 120° | 603.0 | 607.7 | 540.8 | 528.2 | 487.2 | 503.8 | *504.6* | 506.1 | 489.6 | 410.1 | 361.3 |
| 122.5° | 847.8 | 847.8 | 866.6 | 901.3 | 880.0 | 850.1 | *832.8* | 815.5 | 792.7 | 717.1 | 613.2 |
| 125° | 1075.2 | 1073.7 | 1063.4 | 1080.7 | 1059.5 | 1071.3 | *1076.8* | 1081.5 | 1057.1 | 965.0 | 823.4 |
| 127.5° | 866.6 | 888.7 | 925.7 | 1019.4 | 960.3 | 943.8 | *928.0* | 939.1 | 921.0 | 903.6 | 815.5 |
| 130° | 671.4 | 673.8 | 734.4 | 794.2 | 789.5 | 736.8 | *718.7* | 687.2 | 694.3 | 691.9 | 639.2 |
| 132.5° | 573.8 | 577.0 | 612.4 | 646.2 | 674.6 | 636.0 | *600.6* | 584.1 | 589.6 | 585.6 | 551.8 |
| 135° | 501.4 | 501.4 | 488.8 | 484.9 | 508.5 | 543.9 | *540.0* | 518.7 | 508.5 | 496.7 | 446.3 |
| 137.5° | 433.7 | 432.1 | 409.3 | 396.7 | 415.6 | 461.3 | *464.4* | 464.4 | 454.2 | 425.8 | 389.6 |
| 140° | 357.4 | 355.0 | 343.2 | 345.6 | 350.3 | 381.0 | *383.3* | 390.4 | 388.8 | 366.0 | 321.9 |
| 142.5° | 270.8 | 271.6 | 288.9 | 308.6 | 319.6 | 385.7 | *375.5* | 367.6 | 392.8 | 391.2 | 281.0 |
| 145° | 361.3 | 353.4 | 353.4 | 344.8 | 370.7 | 436.1 | *415.6* | 421.9 | 455.0 | 424.3 | 303.8 |
| 147.5° | 331.4 | 335.3 | 336.1 | 334.5 | 367.6 | 371.5 | *356.6* | 357.4 | 369.2 | 369.2 | 310.9 |
| 150° | 256.6 | 250.3 | 251.9 | 255.0 | 289.7 | 287.3 | *273.9* | 273.1 | 282.6 | 280.2 | 254.2 |
| 152.5° | 203.1 | 202.3 | 201.5 | 204.7 | 233.0 | 221.2 | *215.7* | 213.3 | 211.7 | 209.4 | 203.1 |
| 155° | 191.3 | 190.5 | 188.9 | 192.9 | 209.4 | 203.9 | *200.7* | 200.7 | 196.8 | 192.9 | 188.9 |
| 157.5° | 170.0 | 169.2 | 170.0 | 177.9 | 187.3 | 181.0 | *180.3* | 179.5 | 177.9 | 173.2 | 171.6 |
| 160° | 159.0 | 158.2 | 159.8 | 166.1 | 170.0 | 164.5 | *162.9* | 163.7 | 162.9 | 160.6 | 163.7 |
| 162.5° | 150.3 | 150.3 | 150.3 | 154.3 | 155.9 | 151.9 | *151.1* | 151.9 | 152.7 | 152.7 | 156.6 |
| 165° | 145.6 | 145.6 | 146.4 | 148.8 | 148.8 | 147.2 | *145.6* | 145.6 | 149.6 | 151.1 | 154.3 |
| 167.5° | 148.8 | 148.8 | 149.6 | 150.3 | 150.3 | 148.8 | *148.8* | 149.6 | 151.9 | 153.5 | 153.5 |
| 170° | 153.5 | 153.5 | 153.5 | 154.3 | 153.5 | 151.1 | *151.1* | 151.1 | 151.9 | 151.9 | 152.7 |
| 172.5° | 159.0 | 159.0 | 159.0 | 158.2 | 156.6 | 155.9 | *154.3* | 154.3 | 155.1 | 154.3 | 155.1 |
| 175° | 166.9 | 166.1 | 166.1 | 165.3 | 164.5 | 163.7 | *162.9* | 162.2 | 162.2 | 159.8 | 159.8 |
| 177.5° | 170.8 | 170.0 | 170.8 | 170.8 | 170.0 | 168.4 | *166.9* | 166.9 | 166.1 | 164.5 | 163.7 |
| 180° | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | *164.5* | 164.5 | 164.5 | 164.5 | 164.5 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 |
| 2.5° | 66.1 | 63.8 | 57.5 | 52.0 | 48.0 | 46.4 | 46.4 | 44.1 | 40.9 | 38.6 | 37.8 |
| 5° | 87.4 | 85.8 | 83.4 | 80.3 | 73.2 | 63.8 | 55.9 | 52.7 | 51.2 | 50.4 | 49.6 |
| 7.5° | 123.6 | 125.2 | 128.3 | 127.5 | 114.1 | 88.9 | 74.0 | 73.2 | 81.9 | 91.3 | 94.5 |
| 10° | 159.8 | 158.2 | 168.4 | 177.1 | 144.0 | 100.8 | 76.4 | 74.0 | 85.8 | 102.3 | 104.7 |
| 12.5° | 191.3 | 183.4 | 177.9 | 168.4 | 137.8 | 100.8 | 81.9 | 77.1 | 82.7 | 95.2 | 95.2 |
| 15° | 214.9 | 204.7 | 181.8 | 159.8 | 132.2 | 103.9 | 85.0 | 81.9 | 81.9 | 77.9 | 78.7 |
| 17.5° | 233.0 | 214.1 | 181.0 | 152.7 | 122.8 | 99.2 | 84.2 | 75.6 | 70.8 | 64.5 | 63.0 |
| 20° | 254.2 | 240.9 | 196.8 | 157.4 | 121.2 | 96.0 | 81.9 | 71.6 | 66.1 | 63.8 | 63.0 |
| 22.5° | 277.1 | 249.5 | 207.0 | 159.0 | 121.2 | 97.6 | 81.1 | 70.1 | 65.3 | 63.8 | 63.8 |
| 25° | 279.4 | 255.8 | 212.5 | 165.3 | 125.2 | 100.8 | 82.7 | 70.8 | 66.1 | 64.5 | 63.8 |
| 27.5° | 276.3 | 259.8 | 222.0 | 172.4 | 129.1 | 103.9 | 85.8 | 72.4 | 66.1 | 63.8 | 63.0 |
| 30° | 288.1 | 274.7 | 233.0 | 177.1 | 133.0 | 107.8 | 88.9 | 75.6 | 67.7 | 63.0 | 62.2 |
| 32.5° | 318.0 | 299.1 | 248.0 | 180.3 | 134.6 | 108.6 | 92.1 | 78.7 | 69.3 | 63.8 | 63.0 |
| 35° | 396.7 | 379.4 | 305.4 | 191.3 | 134.6 | 110.2 | 94.5 | 81.1 | 70.8 | 64.5 | 63.8 |
| 37.5° | 510.9 | 478.6 | 375.5 | 228.3 | 136.2 | 113.3 | 96.8 | 84.2 | 73.2 | 66.1 | 64.5 |
| 40° | 541.6 | 457.3 | 318.8 | 204.7 | 139.3 | 116.5 | 100.8 | 87.4 | 76.4 | 68.5 | 67.7 |
| 42.5° | 702.9 | 584.8 | 393.6 | 216.5 | 148.8 | 118.9 | 103.1 | 90.5 | 78.7 | 70.8 | 69.3 |
| 45° | 752.5 | 585.6 | 399.9 | 250.3 | 174.7 | 129.1 | 107.1 | 92.9 | 80.3 | 72.4 | 71.6 |
| 47.5° | 986.3 | 726.5 | 407.7 | 268.4 | 196.0 | 148.8 | 116.5 | 96.0 | 81.9 | 74.0 | 73.2 |
| 50° | 1446.0 | 1024.9 | 506.1 | 335.3 | 242.4 | 181.8 | 137.0 | 102.3 | 83.4 | 76.4 | 74.8 |
| 52.5° | 1804.1 | 1229.5 | 548.6 | 410.1 | 321.9 | 240.1 | 172.4 | 118.9 | 88.2 | 77.9 | 76.4 |
| 55° | 2199.3 | 1510.5 | 623.4 | 494.3 | 390.4 | 300.7 | 218.8 | 143.3 | 97.6 | 80.3 | 78.7 |
| 57.5° | 2743.2 | 1803.3 | 732.0 | 583.3 | 473.9 | 351.1 | 249.5 | 167.7 | 110.2 | 85.8 | 82.7 |
| 60° | 3073.8 | 1927.7 | 749.4 | 631.3 | 523.5 | 391.2 | 262.9 | 177.9 | 123.6 | 93.7 | 88.9 |
| 62.5° | 3390.2 | 2013.5 | 754.1 | 650.2 | 535.3 | 399.1 | 264.5 | 173.2 | 128.3 | 104.7 | 98.4 |
| 65° | *3454.8* | *1928.5* | *755.7* | *654.1* | *521.1* | *378.6* | *255.8* | *168.4* | *122.8* | *114.1* | *114.9* |
| 67.5° | 3236.7 | 1712.8 | 700.6 | 625.8 | 483.3 | 337.7 | 229.8 | 161.4 | 121.2 | 112.6 | 114.9 |
| 70° | 2544.8 | 1342.1 | 639.9 | 580.1 | 410.1 | 287.3 | 204.7 | 151.9 | 121.2 | 108.6 | 106.3 |
| 72.5° | 1975.7 | 1146.9 | 655.7 | 551.0 | 351.1 | 256.6 | 185.0 | 141.7 | 117.3 | 107.8 | 106.3 |
| 75° | 1533.4 | 957.2 | 646.2 | 484.9 | 286.5 | 220.4 | 166.1 | 129.9 | 111.8 | 106.3 | 105.5 |
| 77.5° | 1120.9 | 754.9 | 534.5 | 371.5 | 237.7 | 187.3 | 146.4 | 122.0 | 108.6 | 103.9 | 103.1 |
| 80° | 721.0 | 528.2 | 372.3 | 296.8 | 208.6 | 170.8 | 137.0 | 116.5 | 107.1 | 103.9 | 103.1 |
| 82.5° | 607.7 | 479.4 | 335.3 | 281.0 | 201.5 | 174.0 | 143.3 | 122.0 | 112.6 | 109.4 | 108.6 |
| 85° | 584.8 | 493.5 | 344.8 | 292.8 | 192.9 | 166.1 | 140.1 | 122.0 | 113.3 | 109.4 | 108.6 |
| 87.5° | 555.7 | 446.3 | 340.0 | 269.2 | 185.8 | 159.8 | 137.8 | 125.2 | 116.5 | 114.1 | 113.3 |
| 90° | 503.0 | 393.6 | 311.7 | 250.3 | 196.0 | 170.0 | 151.9 | 138.5 | 129.9 | 124.4 | 122.8 |
| 92.5° | 424.3 | 316.4 | 267.6 | 247.2 | 214.9 | 192.9 | 174.7 | 162.9 | 153.5 | 148.0 | 145.6 |
| 95° | 357.4 | 276.3 | 233.0 | 218.8 | 189.7 | 173.2 | 155.9 | 147.2 | 140.1 | 135.4 | 135.4 |
| 97.5° | 291.2 | 236.9 | 216.5 | 205.4 | 181.8 | 163.7 | 149.6 | 140.9 | 138.5 | 137.0 | 136.2 |
| 100° | 273.9 | 232.2 | 218.0 | 208.6 | 189.7 | 173.2 | 162.2 | 154.3 | 153.5 | 152.7 | 152.7 |
| 102.5° | 254.2 | 219.6 | 203.9 | 194.4 | 175.5 | 161.4 | 153.5 | 147.2 | 144.8 | 142.5 | 140.1 |
| 105° | 240.1 | 207.8 | 196.0 | 183.4 | 168.4 | 154.3 | 146.4 | 137.0 | 135.4 | 134.6 | 134.6 |
| 107.5° | 233.0 | 206.2 | 199.9 | 180.3 | 166.1 | 159.8 | 150.3 | 138.5 | 136.2 | 133.0 | 133.0 |
| 110° | 257.4 | 229.1 | 211.0 | 186.6 | 171.6 | 166.1 | 163.7 | 153.5 | 145.6 | 136.2 | 135.4 |

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

Scaled Data Report

REPORT NUMBER: P1046562
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 318.8 | 280.2 | 259.0 | 222.8 | 192.1 | 178.7 | 168.4 | 157.4 | 152.7 | 146.4 | 144.0 |
| 115° | 343.2 | 303.8 | 277.1 | 240.9 | 205.4 | 181.8 | 166.9 | 165.3 | 160.6 | 156.6 | 160.6 |
| 117.5° | 351.9 | 276.3 | 228.3 | 219.6 | 192.9 | 174.0 | 166.9 | 164.5 | 166.1 | 166.1 | 159.0 |
| 120° | 379.4 | 298.3 | 280.2 | 269.2 | 218.8 | 188.1 | 172.4 | 180.3 | 178.7 | 169.2 | 169.2 |
| 122.5° | 566.0 | 505.3 | 445.5 | 371.5 | 308.6 | 272.4 | 218.8 | 183.4 | 176.3 | 170.0 | 166.1 |
| 125° | 745.4 | 691.1 | 597.4 | 499.0 | 390.4 | 288.9 | 217.3 | 192.1 | 178.7 | 170.8 | 172.4 |
| 127.5° | 759.6 | 702.1 | 595.1 | 474.6 | 348.7 | 270.0 | 218.8 | 196.8 | 181.8 | 173.2 | 171.6 |
| 130° | 593.5 | 552.6 | 472.3 | 384.1 | 296.0 | 241.7 | 202.3 | 180.3 | 166.9 | 159.0 | 157.4 |
| 132.5° | 525.0 | 490.4 | 407.0 | 329.8 | 270.0 | 224.3 | 190.5 | 166.1 | 156.6 | 151.1 | 150.3 |
| 135° | 419.5 | 390.4 | 334.5 | 292.8 | 251.1 | 213.3 | 179.5 | 156.6 | 148.0 | 147.2 | 145.6 |
| 137.5° | 367.6 | 344.0 | 300.7 | 266.1 | 231.4 | 195.2 | 166.9 | 148.0 | 144.0 | 144.8 | 142.5 |
| 140° | 299.9 | 289.7 | 265.3 | 235.4 | 198.4 | 160.6 | 140.9 | 134.6 | 140.9 | 144.0 | 144.0 |
| 142.5° | 257.4 | 244.0 | 216.5 | 181.8 | 158.2 | 140.9 | 138.5 | 136.2 | 139.3 | 140.9 | 140.9 |
| 145° | 236.9 | 221.2 | 198.4 | 185.8 | 174.7 | 159.8 | 147.2 | 136.2 | 133.0 | 133.8 | 133.8 |
| 147.5° | 267.6 | 249.5 | 234.6 | 211.0 | 184.2 | 159.0 | 140.1 | 127.5 | 127.5 | 130.7 | 131.5 |
| 150° | 222.0 | 206.2 | 196.0 | 182.6 | 162.2 | 141.7 | 128.3 | 122.0 | 124.4 | 130.7 | 131.5 |
| 152.5° | 185.8 | 166.9 | 160.6 | 152.7 | 141.7 | 130.7 | 124.4 | 121.2 | 125.2 | 129.9 | 129.9 |
| 155° | 181.0 | 164.5 | 156.6 | 148.8 | 138.5 | 129.1 | 123.6 | 122.0 | 125.9 | 129.1 | 129.9 |
| 157.5° | 170.0 | 160.6 | 150.3 | 144.0 | 136.2 | 129.1 | 125.2 | 123.6 | 126.7 | 129.1 | 129.9 |
| 160° | 163.7 | 158.2 | 146.4 | 140.9 | 133.8 | 129.1 | 128.3 | 128.3 | 129.9 | 130.7 | 130.7 |
| 162.5° | 156.6 | 153.5 | 146.4 | 141.7 | 137.0 | 134.6 | 136.2 | 137.0 | 137.0 | 136.2 | 136.2 |
| 165° | 154.3 | 152.7 | 146.4 | 142.5 | 140.1 | 140.9 | 144.0 | 144.8 | 142.5 | 140.9 | 140.9 |
| 167.5° | 153.5 | 153.5 | 148.8 | 145.6 | 144.8 | 146.4 | 149.6 | 149.6 | 147.2 | 144.0 | 143.3 |
| 170° | 153.5 | 154.3 | 152.7 | 152.7 | 151.1 | 151.9 | 152.7 | 152.7 | 151.1 | 149.6 | 148.8 |
| 172.5° | 155.9 | 155.9 | 155.9 | 155.9 | 155.1 | 155.9 | 156.6 | 156.6 | 156.6 | 155.9 | 155.9 |
| 175° | 159.8 | 159.8 | 159.8 | 159.0 | 158.2 | 158.2 | 159.0 | 159.8 | 160.6 | 160.6 | 160.6 |
| 177.5° | 163.7 | 162.9 | 162.2 | 162.9 | 162.2 | 162.2 | 163.7 | 164.5 | 165.3 | 165.3 | 165.3 |
| 180° | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 | 164.5 |

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: SP1-2501-332-4

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

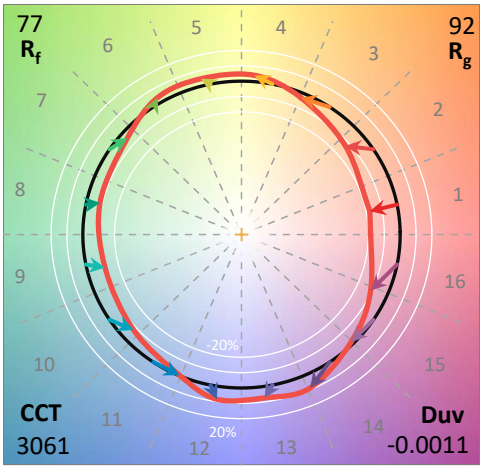
## Test Information

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

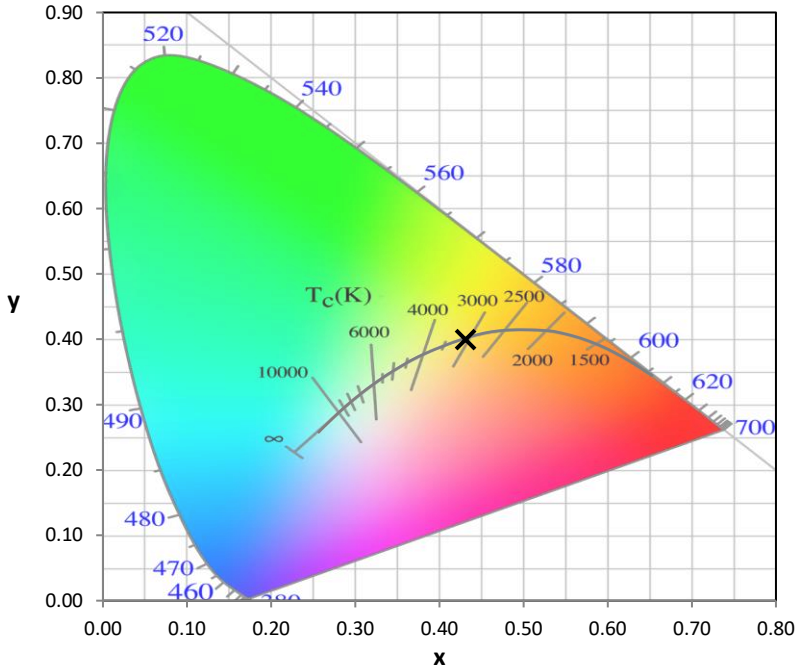
| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 1H 56M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-4

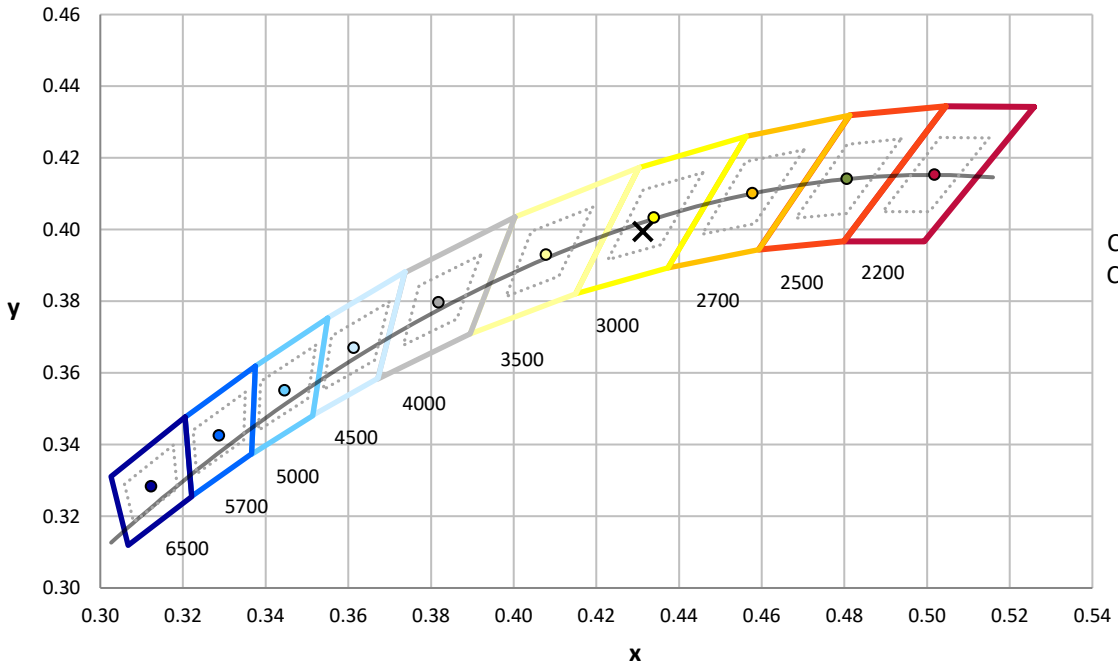
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

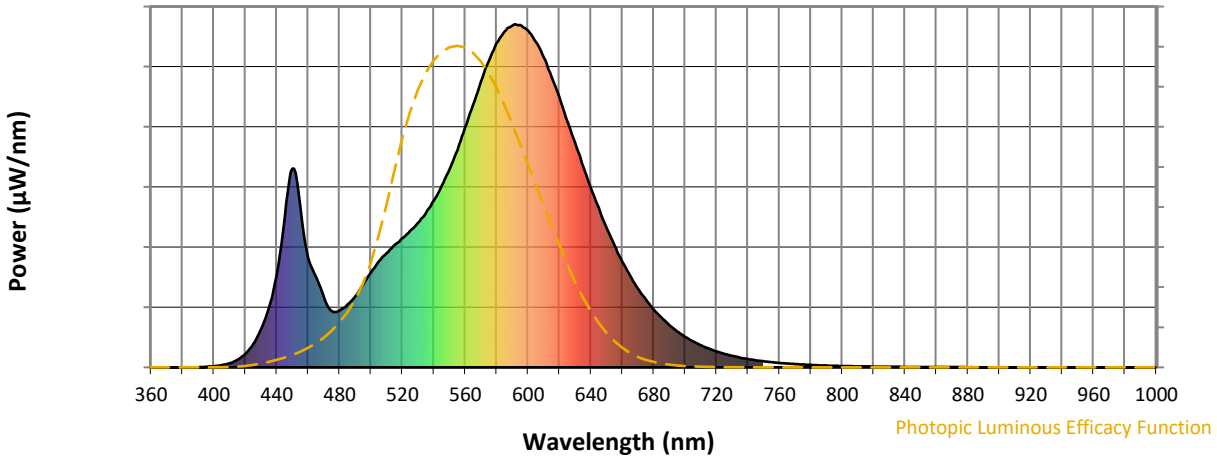



CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

## Photopic Flux vs. Wavelength

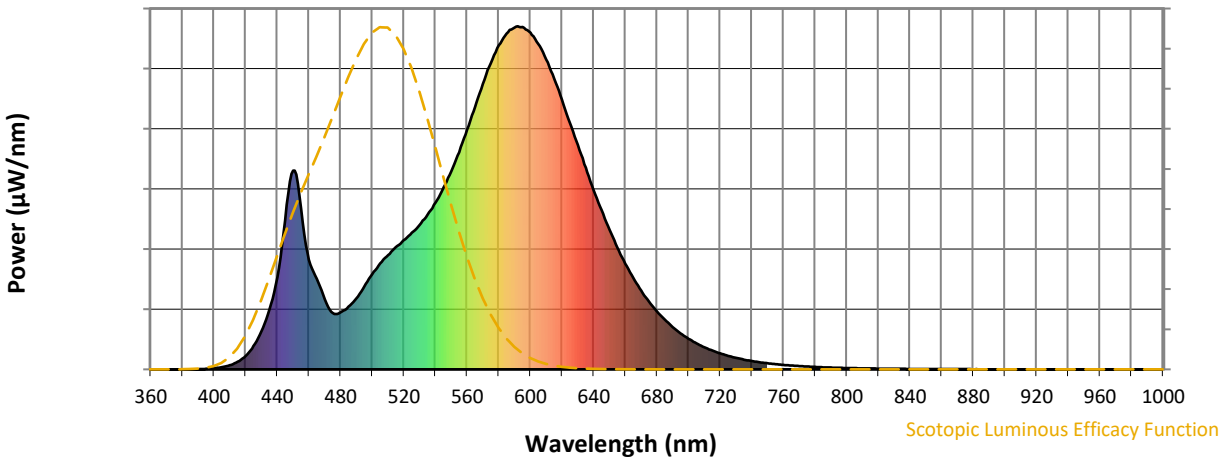



## Photopic Lumens: NR

| 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

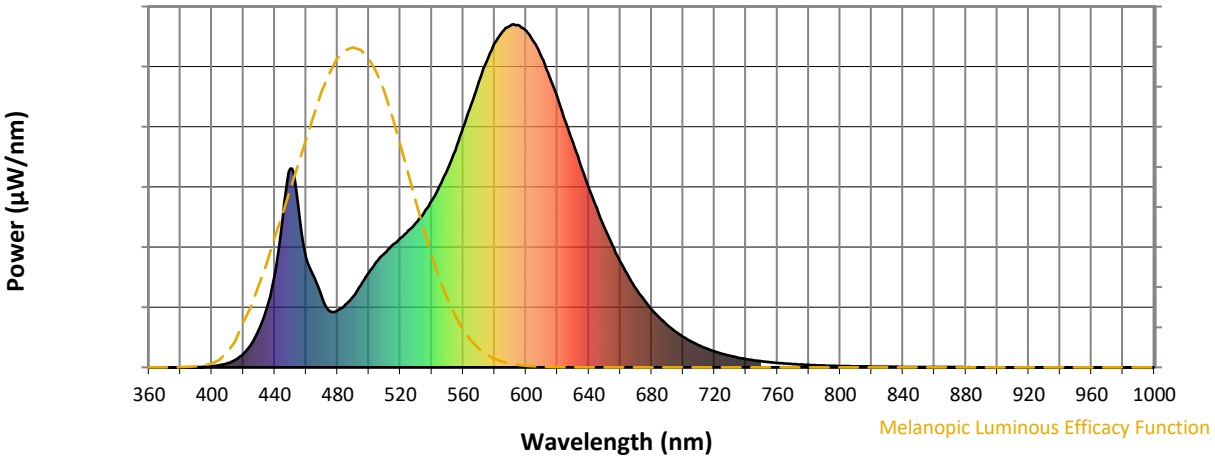



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | | | |

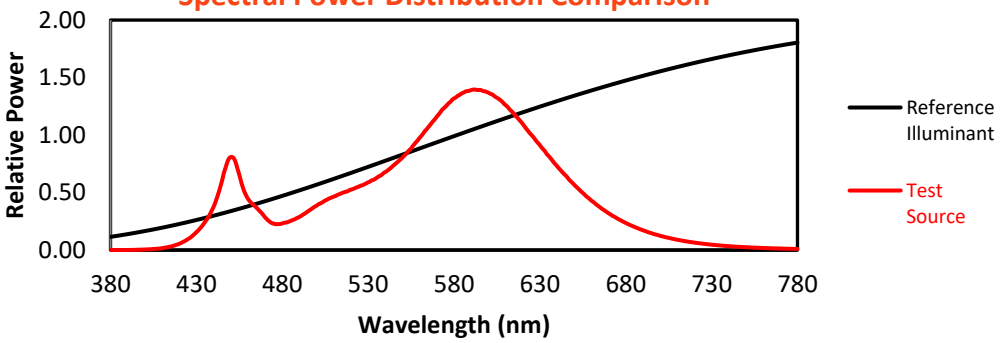
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

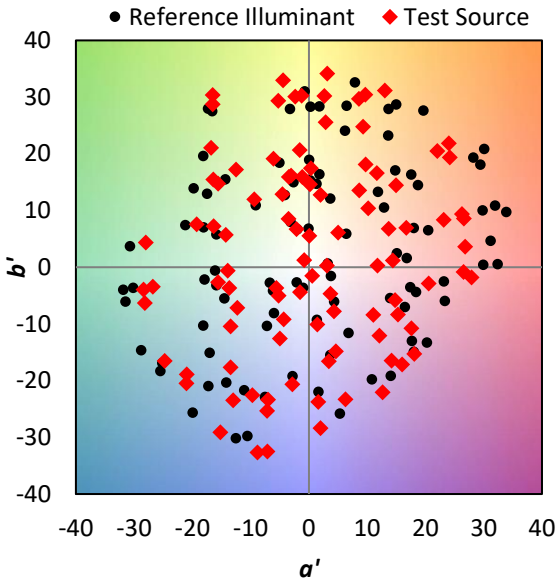
## Summary

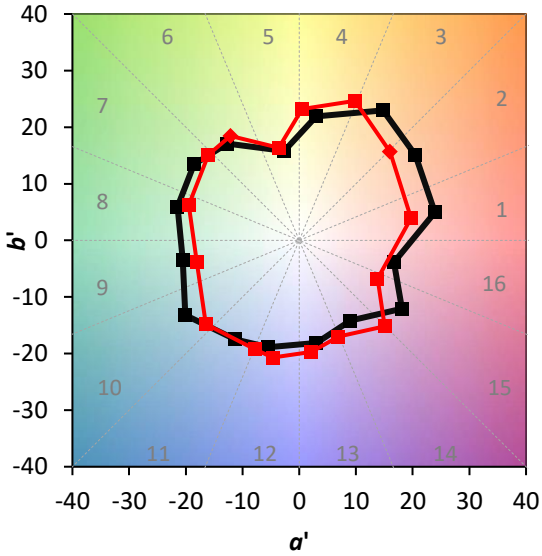
$R_f$ = 76.8
$R_g$ = 92.2
CIE $R_a$ = 71.7
$R_9$ = -40.3

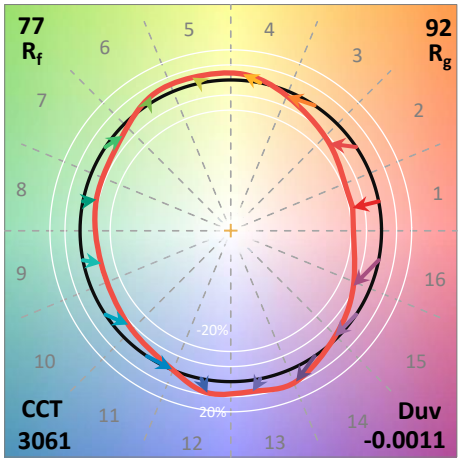
## Spectral Power Distribution Comparison

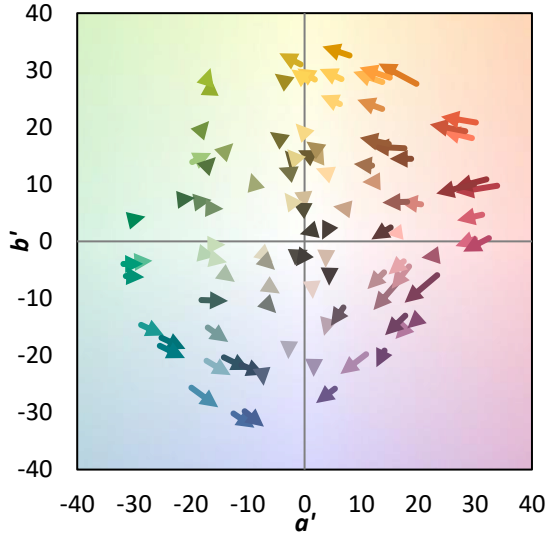



## Color Vector Graphics



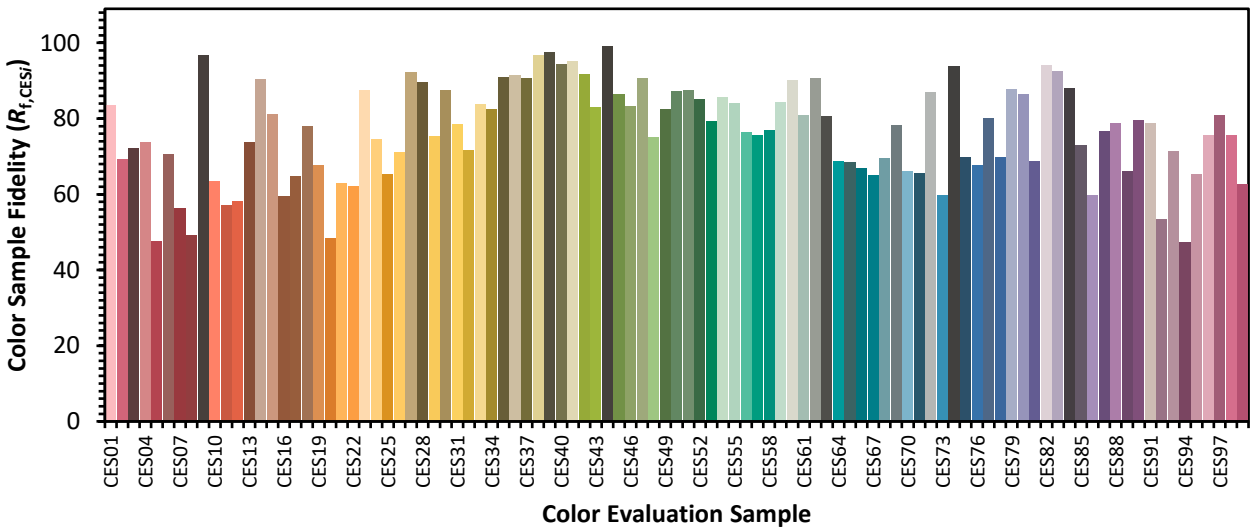



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**Individual Sample Fidelity Index ($R_{f,i}$)**

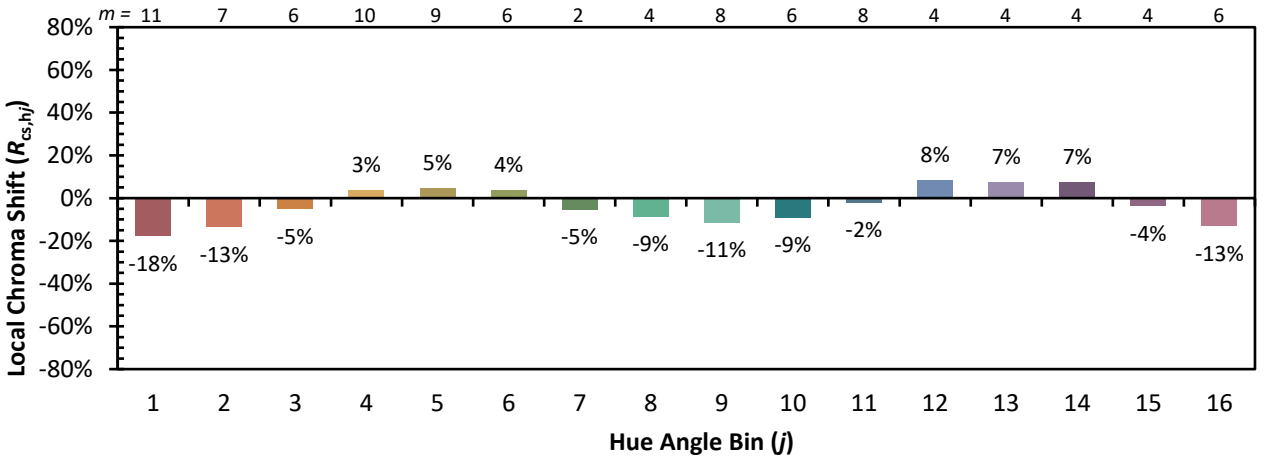
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 71 | CES51 = 88 | CES76 = 68 |
| CES02 = 62 | CES27 = 92 | CES52 = 85 | CES77 = 80 |
| CES03 = 31 | CES28 = 90 | CES53 = 79 | CES78 = 70 |
| CES04 = 71 | CES29 = 75 | CES54 = 86 | CES79 = 88 |
| CES05 = 49 | CES30 = 87 | CES55 = 84 | CES80 = 87 |
| CES06 = 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 | |

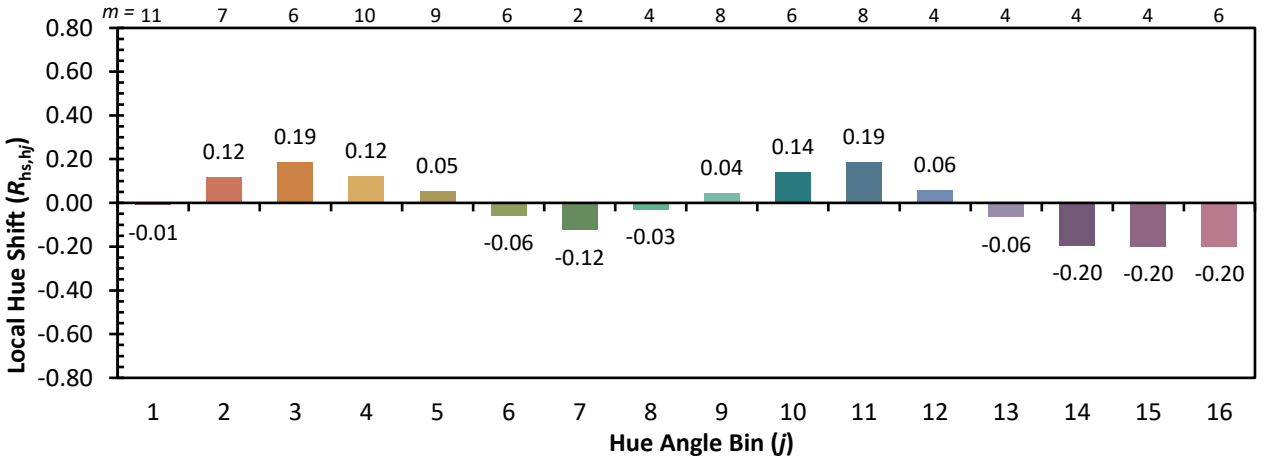


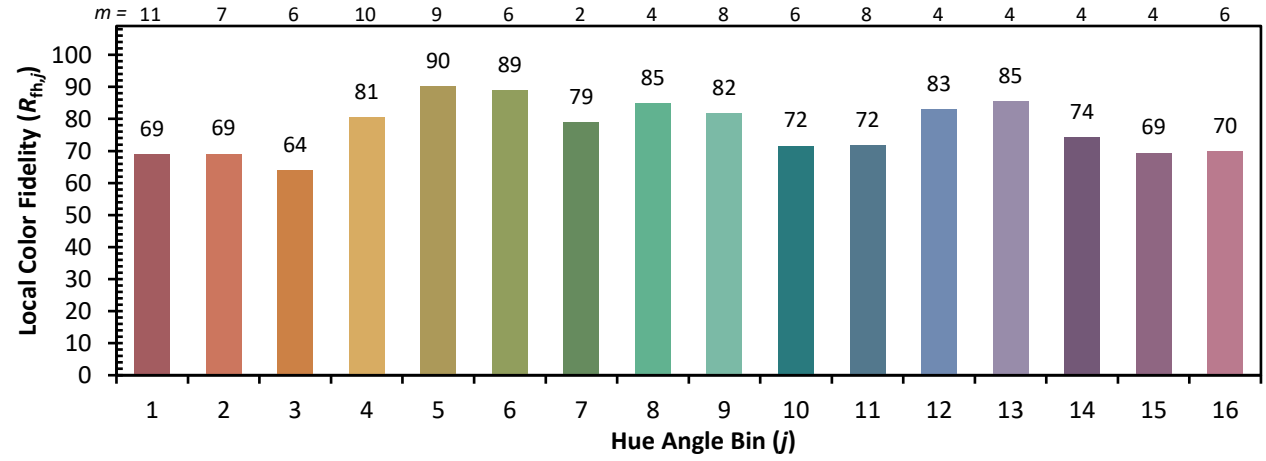
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## Color Rendition by Hue-Angle Bin



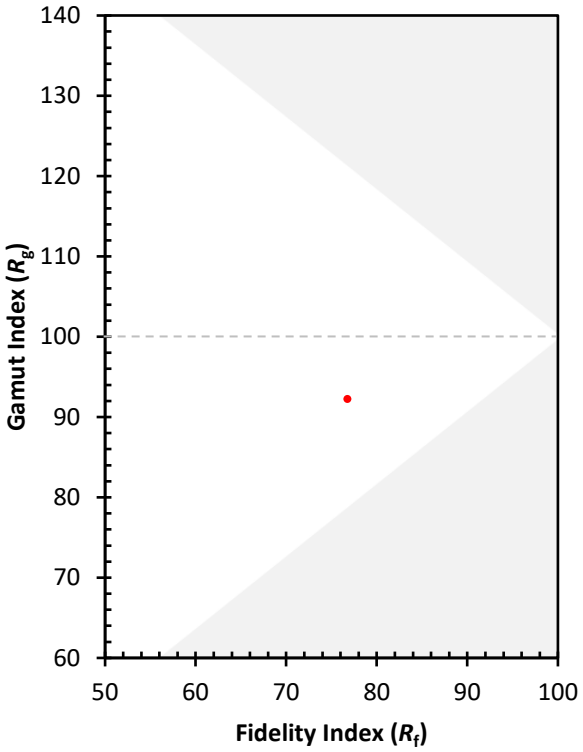



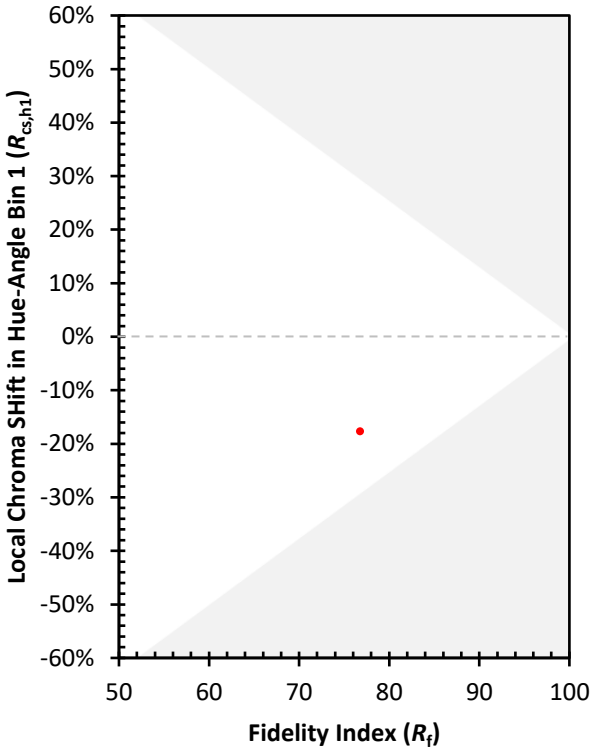



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## Measure Comparisons




(END OF REPORT)