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: P1223983

Luminaire Tested: **FFX-CLB-40-727-U-VM8-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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: | P1223983 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-40-727-U-VM8-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION |
| Light Source: | (6) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5714.9 lumens |
| Efficiency: | N/A |
| Efficacy: | 145.0 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U5 - G3 |

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

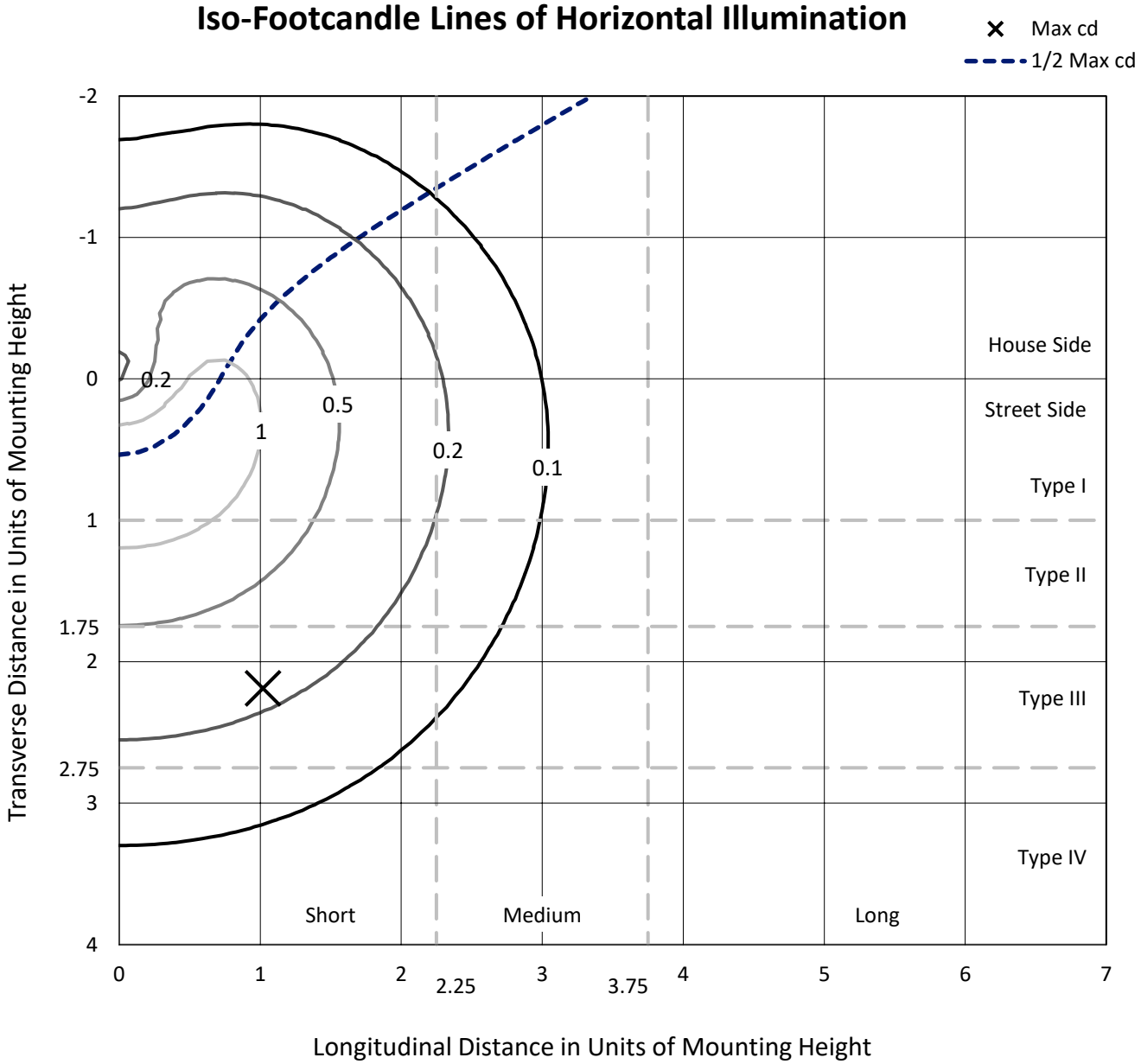


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REPORT NUMBER: P1223983
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## Iso-Footcandle Lines of Horizontal Illumination



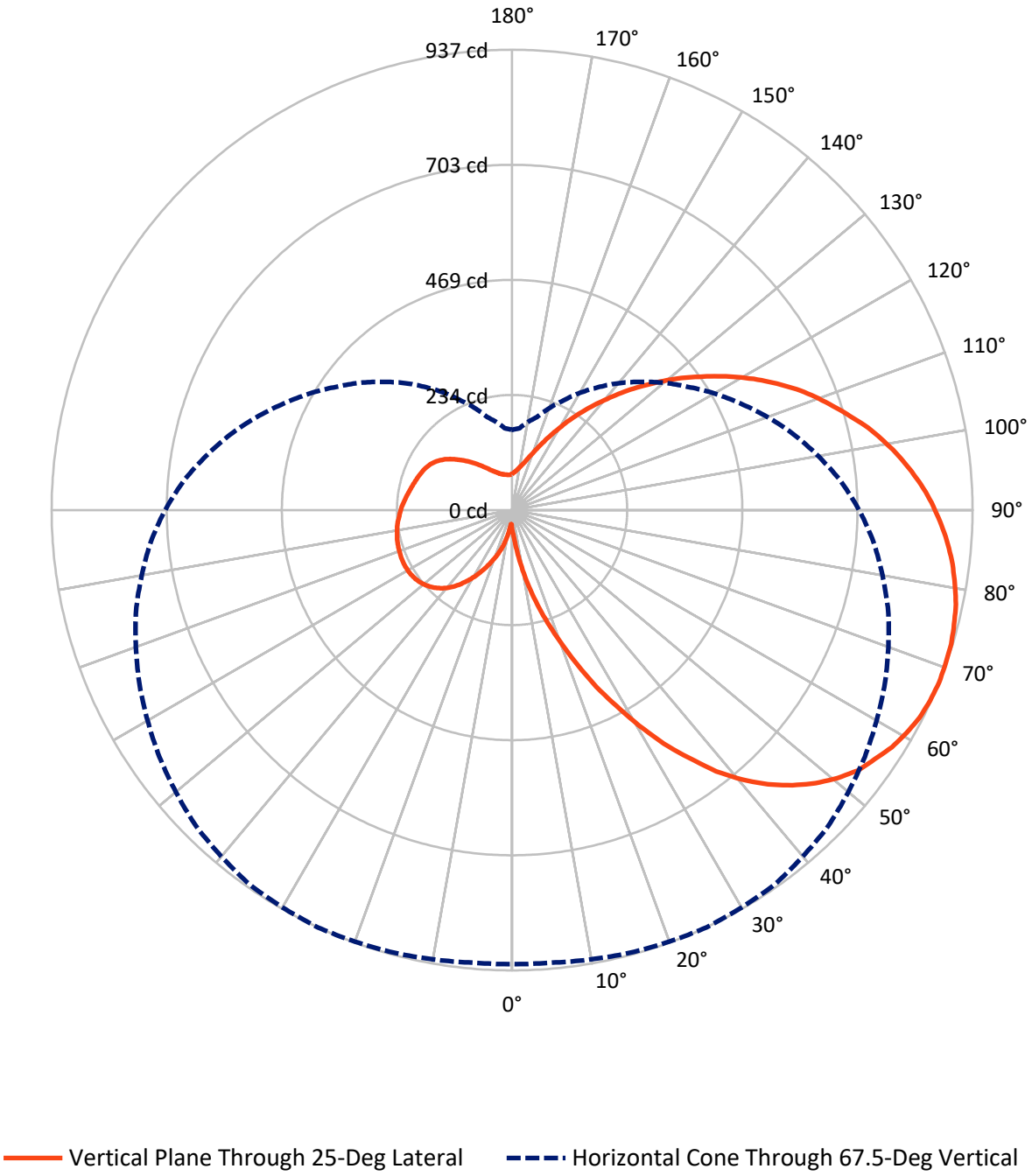

Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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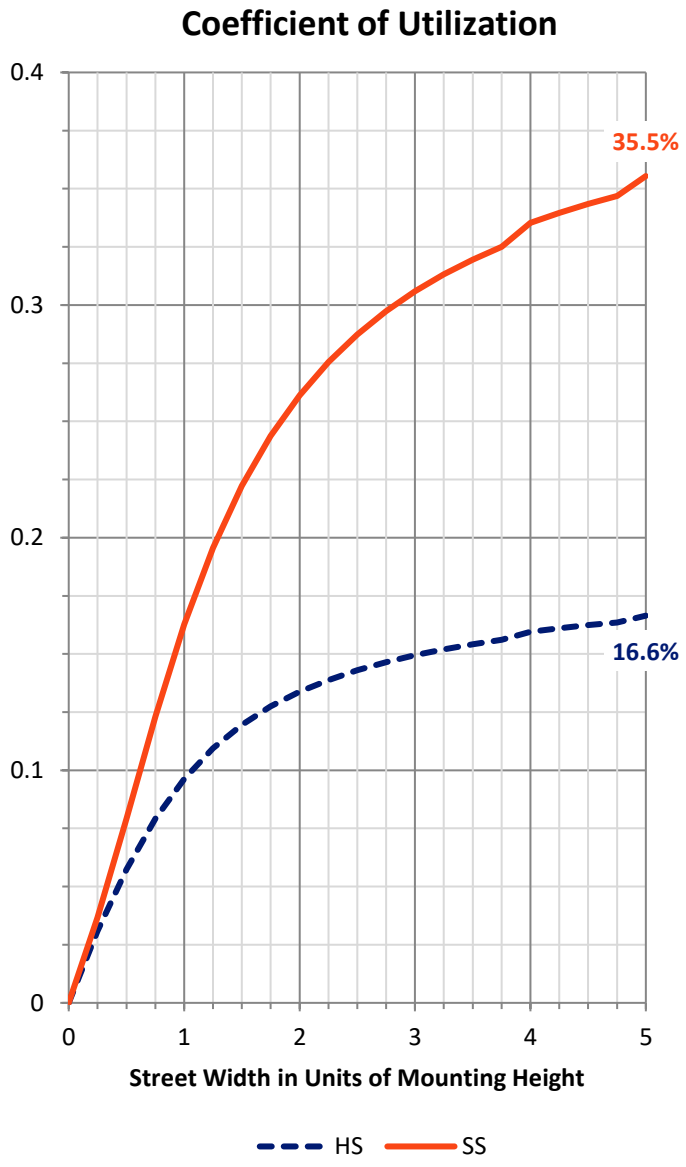
REPORT NUMBER: P1223983
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1046.6 | 800.0 | 1846.6 |
| | % Fixture | 18.3 | 14.0 | 32.3 |
| **Street Side** | Lumens | 2312.6 | 1555.7 | 3868.3 |
| | % Fixture | 40.5 | 27.2 | 67.7 |
| **Total** | Lumens | 3359.2 | 2355.7 | 5714.9 |
| | % Fixture | 58.8 | 41.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 6.3 | 0.1 |
| 10°-20° | 43.5 | 0.8 |
| 20°-30° | 130.2 | 2.3 |
| 30°-40° | 267.9 | 4.7 |
| 40°-50° | 418.3 | 7.3 |
| 50°-60° | 541.8 | 9.5 |
| 60°-70° | 624.7 | 10.9 |
| 70°-80° | 664.7 | 11.6 |
| 80°-90° | 661.8 | 11.6 |
| 90°-100° | 617.4 | 10.8 |
| 100°-110° | 539.7 | 9.4 |
| 110°-120° | 442.0 | 7.7 |
| 120°-130° | 328.7 | 5.8 |
| 130°-140° | 213.8 | 3.7 |
| 140°-150° | 121.1 | 2.1 |
| 150°-160° | 59.7 | 1.0 |
| 160°-170° | 26.0 | 0.5 |
| 170°-180° | 7.3 | 0.1 |
| 0°-90° | 3359.2 | 58.8 |
| 0°-180° | 5714.9 | 100.0 |



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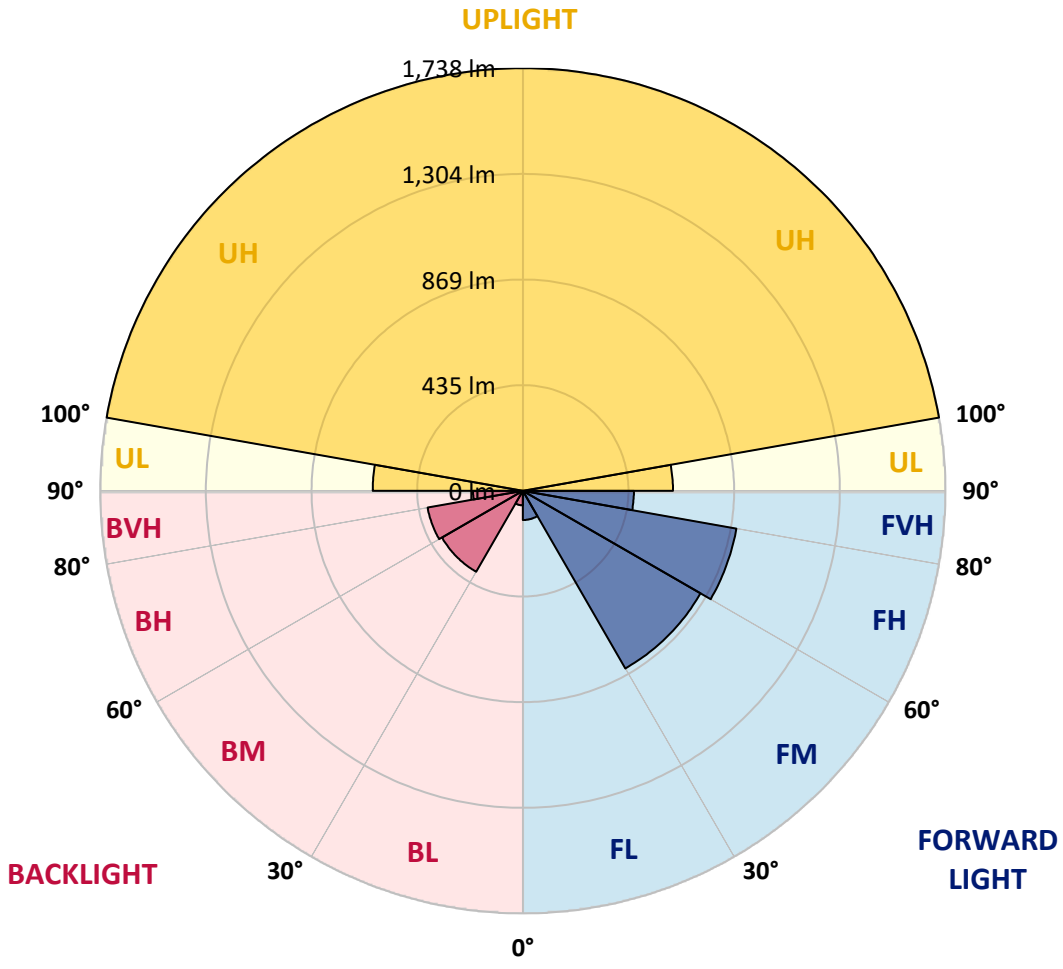
Scaled Data Report

REPORT NUMBER: P1223983
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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°) | 120.1 | 2.1 | | | |
| FM | (30°-60°) | 843.8 | 14.8 | | | |
| FH | (60°-80°) | 891.9 | 15.6 | | | G1/1800 |
| FVH | (80°-90°) | 456.8 | 8.0 | | | G3/500 |
| BL | (0°-30°) | 59.9 | 1.0 | B0/110 | | |
| BM | (30°-60°) | 384.2 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 397.5 | 7.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 205.0 | 3.6 | | | G2/225 |
| UL | (90°-100°) | 617.4 | 10.8 | | U4/1000 | |
| UH | (100°-180°) | 1738.3 | 30.4 | | U5 | |

**BUG Rating: B1-U5-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 41.4 | 41.4 | 41.4 | *41.4* | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| 2.5° | 49.3 | 49.3 | 49.7 | *49.7* | 49.0 | 49.3 | 48.6 | 47.5 | 46.8 | 45.0 | 44.3 |
| 5° | 71.8 | 70.7 | 71.1 | *70.4* | 68.9 | 68.2 | 65.3 | 63.1 | 59.5 | 55.5 | 53.7 |
| 7.5° | 99.8 | 100.1 | 98.7 | *96.9* | 96.5 | 92.5 | 91.8 | 84.9 | 82.0 | 75.1 | 73.3 |
| 10° | 134.2 | 133.5 | 132.1 | *131.7* | 128.4 | 124.4 | 118.3 | 114.6 | 105.2 | 100.1 | 96.1 |
| 12.5° | 172.0 | 172.3 | 169.8 | *167.2* | 164.3 | 158.9 | 150.6 | 144.7 | 137.1 | 126.6 | 121.5 |
| 15° | 212.6 | 211.1 | 211.1 | *208.2* | 203.9 | 197.7 | 191.2 | 182.8 | 172.0 | 160.7 | 153.5 |
| 17.5° | 250.3 | 253.2 | 252.1 | *248.5* | 244.5 | 236.9 | 230.0 | 218.4 | 206.4 | 194.1 | 185.0 |
| 20° | 297.5 | 298.2 | 296.4 | *293.1* | 289.5 | 280.8 | 272.4 | 260.8 | 246.0 | 226.7 | 219.1 |
| 22.5° | 345.0 | 346.5 | 346.5 | *344.6* | 339.6 | 331.9 | 318.5 | 305.8 | 287.3 | 268.1 | 255.4 |
| 25° | 399.8 | 398.7 | 399.8 | *398.7* | 390.4 | 383.5 | 369.7 | 354.4 | 334.5 | 310.9 | 295.7 |
| 27.5° | 454.9 | 456.4 | 453.5 | *450.9* | 447.7 | 436.8 | 421.9 | 402.7 | 377.7 | 353.0 | 336.7 |
| 30° | 508.6 | 511.9 | 511.9 | *509.0* | 503.9 | 493.0 | 476.3 | 455.7 | 428.1 | 396.9 | 377.7 |
| 32.5° | 564.8 | 565.9 | 567.4 | *567.0* | 561.2 | 550.7 | 532.2 | 504.3 | 473.4 | 439.0 | 420.1 |
| 35° | 624.3 | 621.1 | 621.8 | *619.6* | 617.1 | 604.0 | 582.6 | 555.8 | 522.4 | 483.9 | 461.1 |
| 37.5° | 673.7 | 672.2 | 673.3 | *675.1* | 668.2 | 654.8 | 630.1 | 598.9 | 562.3 | 522.0 | 499.2 |
| 40° | 720.5 | 719.4 | 721.2 | *721.6* | 714.7 | 699.1 | 673.0 | 642.8 | 603.3 | 556.9 | 535.5 |
| 42.5° | 759.7 | 759.7 | 761.5 | *763.7* | 756.4 | 739.7 | 713.2 | 677.3 | 636.7 | 589.9 | 563.8 |
| 45° | 795.9 | 794.9 | 798.5 | *799.6* | 792.3 | 775.6 | 745.9 | 709.6 | 666.1 | 618.5 | 591.3 |
| 47.5° | 825.0 | 825.3 | 829.0 | *831.1* | 824.6 | 805.7 | 775.6 | 737.2 | 691.8 | 642.1 | 614.2 |
| 50° | 848.9 | 852.2 | 855.4 | *858.0* | 851.1 | 832.2 | 801.0 | 759.3 | 714.0 | 663.9 | 634.9 |
| 52.5° | 872.8 | 872.8 | 877.9 | *881.2* | 873.6 | 854.0 | 821.3 | 780.7 | 734.3 | 681.3 | 653.0 |
| 55° | 888.1 | 888.4 | 894.6 | *895.7* | 891.0 | 870.7 | 837.3 | 796.7 | 750.2 | 696.9 | 666.8 |
| 57.5° | 901.5 | 901.9 | 908.8 | *911.3* | 904.8 | 885.2 | 851.1 | 809.0 | 763.7 | 709.2 | 678.8 |
| 60° | 913.1 | 912.8 | 918.6 | *922.2* | 915.7 | 895.0 | 861.6 | 820.6 | 774.2 | 720.5 | 688.9 |
| 62.5° | 920.4 | 920.4 | 927.3 | *930.9* | 924.0 | 903.7 | 869.6 | 829.0 | 782.5 | 728.1 | 696.9 |
| 65° | 923.6 | 924.4 | 930.9 | *935.2* | 928.7 | 908.0 | 873.9 | 834.0 | 788.3 | 734.3 | 702.7 |
| 67.5° | *924.7* | *925.1* | *933.1* | *937.4* | *931.3* | *910.2* | *876.5* | *837.3* | *792.7* | *738.3* | *706.3* |
| 70° | 925.5 | 925.8 | 932.0 | *936.3* | 930.9 | 909.9 | 877.2 | 838.7 | 795.2 | 740.4 | 708.5 |
| 72.5° | 921.5 | 922.5 | 929.4 | *934.5* | 928.0 | 907.3 | 875.4 | 838.7 | 794.9 | 741.9 | 709.2 |
| 75° | 916.4 | 918.9 | 925.1 | *929.4* | 923.6 | 903.7 | 872.5 | 837.3 | 794.5 | 741.2 | 709.2 |
| 77.5° | 911.3 | 911.7 | 919.6 | *923.6* | 917.5 | 897.2 | 867.4 | 833.7 | 792.3 | 739.0 | 706.7 |
| 80° | 901.1 | 903.3 | 910.2 | *913.8* | 908.4 | 889.2 | 860.2 | 828.6 | 788.3 | 735.4 | 702.7 |
| 82.5° | 893.9 | 893.2 | 900.1 | *903.3* | 897.9 | 877.9 | 851.8 | 820.6 | 782.5 | 729.2 | 697.3 |
| 85° | 880.1 | 881.6 | 887.0 | *889.9* | 883.7 | 865.6 | 840.6 | 812.6 | 774.5 | 722.3 | 690.0 |
| 87.5° | 867.0 | 867.8 | 871.4 | *874.7* | 868.5 | 851.1 | 827.9 | 801.4 | 764.7 | 713.6 | 682.0 |
| 90° | 850.7 | 851.1 | 855.1 | *857.6* | 852.2 | 835.8 | 814.4 | 788.7 | 754.2 | 703.8 | 672.2 |
| 92.5° | 835.5 | 834.8 | 837.7 | *838.7* | 834.0 | 818.1 | 798.8 | 774.9 | 741.5 | 691.8 | 661.3 |
| 95° | 815.5 | 815.2 | 817.7 | *817.0* | 811.9 | 798.1 | 780.7 | 759.7 | 726.6 | 679.1 | 649.0 |
| 97.5° | 793.4 | 793.8 | 795.2 | *794.5* | 789.0 | 776.3 | 762.9 | 741.9 | 711.4 | 664.2 | 635.2 |
| 100° | 768.7 | 769.8 | 772.0 | *769.8* | 765.1 | 755.7 | 741.5 | 724.1 | 694.0 | 649.4 | 620.7 |
| 102.5° | 748.1 | 745.1 | 744.4 | *744.1* | 739.3 | 731.0 | 720.1 | 704.9 | 676.9 | 633.1 | 605.5 |
| 105° | 720.8 | 719.0 | 718.7 | *714.7* | 712.9 | 706.0 | 696.9 | 683.1 | 658.1 | 616.7 | 589.9 |
| 107.5° | 692.2 | 692.5 | 691.1 | *686.4* | 683.8 | 679.1 | 674.0 | 661.7 | 637.8 | 598.6 | 573.9 |
| 110° | 666.4 | 664.6 | 660.6 | *658.4* | 656.6 | 652.6 | 649.4 | 639.9 | 617.8 | 581.2 | 556.5 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 634.5 | 635.6 | 630.9 | *629.4* | 626.5 | 626.2 | 624.0 | 616.4 | 596.8 | 562.7 | 539.5 |
| 115° | 605.8 | 605.1 | 600.4 | *597.5* | 596.4 | 597.1 | 598.6 | 593.1 | 575.0 | 542.7 | 521.3 |
| 117.5° | 574.3 | 572.1 | 568.8 | *565.9* | 564.5 | 567.4 | 570.7 | 568.1 | 552.9 | 522.4 | 502.1 |
| 120° | 540.5 | 540.9 | 536.2 | *533.3* | 533.6 | 538.4 | 542.7 | 541.3 | 526.8 | 499.5 | 481.4 |
| 122.5° | 509.0 | 507.2 | 503.2 | *500.3* | 502.8 | 507.9 | 513.0 | 512.6 | 499.9 | 473.4 | 457.1 |
| 125° | 474.5 | 474.2 | 470.2 | *467.3* | 469.4 | 475.2 | 481.4 | 482.1 | 470.2 | 448.0 | 431.7 |
| 127.5° | 441.9 | 440.8 | 440.1 | *436.8* | 438.2 | 446.2 | 450.6 | 450.2 | 439.7 | 419.4 | 405.2 |
| 130° | 410.7 | 410.3 | 406.0 | *404.5* | 406.3 | 412.8 | 417.2 | 416.5 | 408.1 | 390.4 | 377.7 |
| 132.5° | 379.1 | 377.7 | 375.8 | *373.7* | 375.1 | 380.6 | 386.4 | 385.6 | 375.8 | 358.8 | 348.6 |
| 135° | 347.9 | 346.8 | 345.4 | *343.9* | 345.0 | 350.4 | 355.5 | 354.1 | 345.7 | 330.5 | 320.3 |
| 137.5° | 319.2 | 318.2 | 316.3 | *314.5* | 316.0 | 320.3 | 323.6 | 322.5 | 315.6 | 301.1 | 291.3 |
| 140° | 289.5 | 290.2 | 288.0 | *286.6* | 287.3 | 291.7 | 294.2 | 292.8 | 285.1 | 273.2 | 265.2 |
| 142.5° | 262.3 | 262.3 | 261.2 | *260.8* | 261.9 | 264.1 | 266.3 | 263.4 | 258.3 | 246.0 | 239.4 |
| 145° | 236.2 | 236.5 | 236.2 | *235.4* | 235.8 | 238.3 | 238.7 | 237.6 | 231.8 | 222.7 | 215.5 |
| 147.5° | 211.5 | 212.6 | 211.9 | *211.9* | 212.2 | 213.3 | 214.8 | 212.2 | 207.1 | 199.2 | 194.1 |
| 150° | 188.6 | 189.4 | 189.4 | *188.6* | 188.6 | 190.1 | 190.1 | 188.3 | 184.3 | 177.8 | 173.0 |
| 152.5° | 168.7 | 169.1 | 169.1 | *168.3* | 168.7 | 169.1 | 168.3 | 166.2 | 162.9 | 157.8 | 154.2 |
| 155° | 150.6 | 151.3 | 150.2 | *150.6* | 149.5 | 149.8 | 149.5 | 148.0 | 144.4 | 140.0 | 137.9 |
| 157.5° | 134.2 | 135.3 | 134.6 | *134.6* | 133.9 | 133.5 | 133.1 | 131.7 | 129.1 | 125.5 | 123.0 |
| 160° | 121.2 | 121.9 | 120.8 | *120.8* | 120.1 | 120.1 | 118.6 | 117.9 | 115.4 | 112.1 | 110.6 |
| 162.5° | 109.9 | 109.9 | 109.6 | *109.9* | 109.6 | 108.5 | 107.7 | 106.3 | 104.1 | 101.6 | 100.5 |
| 165° | 100.9 | 100.5 | 100.5 | *100.1* | 99.8 | 99.0 | 98.0 | 97.2 | 95.0 | 92.9 | 92.1 |
| 167.5° | 94.0 | 93.6 | 93.2 | *92.9* | 92.1 | 91.8 | 90.7 | 90.0 | 88.2 | 86.3 | 85.6 |
| 170° | 88.2 | 88.2 | 87.4 | *87.1* | 86.7 | 86.0 | 84.9 | 83.8 | 82.4 | 81.3 | 80.5 |
| 172.5° | 83.1 | 83.1 | 82.7 | *82.4* | 82.0 | 81.3 | 80.2 | 79.4 | 78.4 | 77.3 | 76.5 |
| 175° | 79.4 | 79.4 | 79.1 | *78.4* | 78.0 | 77.3 | 76.5 | 75.8 | 74.7 | 74.0 | 73.6 |
| 177.5° | 76.5 | 76.5 | 76.5 | *75.8* | 75.5 | 74.7 | 74.0 | 73.3 | 72.9 | 72.2 | 72.2 |
| 180° | 72.9 | 72.9 | 72.9 | *72.9* | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 | 41.4 |
| 2.5° | 43.2 | 41.0 | 39.2 | 36.3 | 33.7 | 31.6 | 30.1 | 29.0 | 28.3 | 27.6 |
| 5° | 51.5 | 47.5 | 43.5 | 39.2 | 35.2 | 31.6 | 28.7 | 26.5 | 25.4 | 25.4 |
| 7.5° | 70.4 | 64.2 | 57.3 | 51.2 | 46.4 | 41.7 | 37.4 | 34.8 | 33.4 | 32.7 |
| 10° | 92.1 | 83.1 | 76.2 | 68.6 | 60.2 | 54.4 | 49.3 | 46.1 | 44.3 | 44.6 |
| 12.5° | 118.3 | 107.0 | 98.3 | 87.1 | 78.0 | 68.9 | 63.5 | 58.8 | 56.6 | 56.2 |
| 15° | 147.3 | 134.2 | 121.5 | 108.1 | 96.1 | 85.6 | 77.6 | 71.5 | 67.8 | 67.5 |
| 17.5° | 177.8 | 161.4 | 144.4 | 129.1 | 113.6 | 100.5 | 89.6 | 82.4 | 78.4 | 78.4 |
| 20° | 208.6 | 190.1 | 170.1 | 150.2 | 131.3 | 115.4 | 102.7 | 93.2 | 88.2 | 87.4 |
| 22.5° | 244.2 | 220.6 | 196.6 | 172.3 | 150.9 | 131.0 | 114.6 | 103.4 | 98.0 | 96.9 |
| 25° | 283.0 | 255.0 | 226.4 | 197.7 | 171.2 | 147.3 | 128.4 | 115.7 | 108.1 | 107.0 |
| 27.5° | 323.2 | 289.5 | 255.8 | 222.4 | 191.5 | 165.1 | 142.2 | 125.9 | 118.3 | 117.2 |
| 30° | 362.8 | 325.8 | 286.6 | 247.4 | 212.6 | 182.1 | 156.0 | 137.1 | 127.7 | 126.2 |
| 32.5° | 401.6 | 359.5 | 316.3 | 272.8 | 234.7 | 199.2 | 168.7 | 148.4 | 136.8 | 135.3 |
| 35° | 438.6 | 395.1 | 344.6 | 297.8 | 254.3 | 216.2 | 182.1 | 158.5 | 145.5 | 144.0 |
| 37.5° | 474.9 | 425.5 | 372.6 | 321.1 | 273.9 | 230.7 | 194.4 | 168.0 | 153.5 | 152.0 |
| 40° | 509.3 | 454.6 | 396.9 | 342.5 | 290.9 | 245.2 | 205.0 | 176.3 | 160.0 | 158.2 |
| 42.5° | 535.8 | 479.6 | 419.4 | 360.6 | 305.8 | 256.1 | 214.4 | 182.8 | 165.1 | 162.5 |
| 45° | 562.3 | 502.1 | 438.6 | 376.6 | 318.9 | 266.6 | 222.0 | 188.6 | 169.8 | 166.9 |
| 47.5° | 584.1 | 521.3 | 454.2 | 389.6 | 329.8 | 275.7 | 228.6 | 192.6 | 172.7 | 169.8 |
| 50° | 604.8 | 538.4 | 468.7 | 401.6 | 339.6 | 283.7 | 234.0 | 195.9 | 174.5 | 171.6 |
| 52.5° | 620.7 | 552.5 | 480.3 | 411.0 | 347.5 | 289.5 | 238.3 | 198.1 | 175.6 | 172.3 |
| 55° | 634.1 | 564.1 | 489.8 | 418.3 | 353.7 | 294.6 | 241.6 | 199.2 | 175.6 | 172.3 |
| 57.5° | 645.4 | 573.2 | 497.4 | 424.8 | 358.4 | 297.8 | 243.8 | 199.5 | 174.5 | 171.2 |
| 60° | 655.2 | 581.5 | 503.5 | 429.9 | 362.8 | 301.1 | 245.2 | 199.5 | 173.4 | 169.8 |
| 62.5° | 663.2 | 587.3 | 508.3 | 433.9 | 366.0 | 303.6 | 246.0 | 198.8 | 171.2 | 167.6 |
| 65° | 667.9 | 591.3 | 511.2 | 436.1 | 367.9 | 304.4 | 246.0 | 197.7 | 169.1 | 165.4 |
| 67.5° | *671.9* | *593.9* | *513.0* | *437.1* | *368.9* | *305.1* | *245.6* | *195.9* | *166.9* | *163.3* |
| 70° | 673.7 | 595.0 | 513.7 | 437.9 | 369.7 | 304.7 | 244.5 | 194.4 | 164.7 | 160.3 |
| 72.5° | 674.0 | 595.3 | 513.3 | 437.9 | 369.7 | 304.7 | 243.4 | 192.3 | 162.2 | 158.2 |
| 75° | 673.3 | 594.2 | 512.2 | 437.5 | 369.3 | 303.6 | 242.3 | 190.5 | 160.0 | 155.6 |
| 77.5° | 671.1 | 592.1 | 510.4 | 436.1 | 367.5 | 302.6 | 240.2 | 188.3 | 157.4 | 153.5 |
| 80° | 667.5 | 588.4 | 507.5 | 433.5 | 365.3 | 300.4 | 238.3 | 186.1 | 155.3 | 151.3 |
| 82.5° | 662.1 | 583.7 | 503.9 | 430.3 | 363.1 | 297.8 | 236.2 | 183.9 | 153.1 | 149.1 |
| 85° | 655.5 | 577.9 | 498.5 | 426.3 | 359.9 | 294.9 | 233.3 | 181.4 | 150.9 | 146.9 |
| 87.5° | 646.5 | 570.7 | 492.7 | 421.6 | 355.5 | 291.3 | 230.0 | 179.2 | 149.1 | 145.1 |
| 90° | 637.8 | 562.7 | 486.5 | 416.5 | 351.5 | 288.0 | 227.1 | 176.7 | 147.7 | 143.7 |
| 92.5° | 627.6 | 553.2 | 478.9 | 410.7 | 346.1 | 283.7 | 224.2 | 174.5 | 146.2 | 142.6 |
| 95° | 616.0 | 543.1 | 470.9 | 403.8 | 341.0 | 279.3 | 220.6 | 172.3 | 144.7 | 141.5 |
| 97.5° | 602.9 | 532.2 | 462.2 | 396.5 | 334.8 | 274.6 | 217.3 | 170.5 | 144.0 | 140.4 |
| 100° | 589.5 | 519.9 | 452.7 | 389.3 | 328.7 | 269.5 | 214.0 | 168.7 | 143.7 | 140.4 |
| 102.5° | 574.3 | 508.6 | 443.3 | 382.0 | 322.5 | 264.8 | 210.8 | 167.6 | 143.7 | 140.4 |
| 105° | 559.8 | 495.6 | 433.2 | 374.0 | 316.3 | 260.1 | 207.9 | 166.9 | 144.0 | 141.1 |
| 107.5° | 544.2 | 483.2 | 423.0 | 365.7 | 309.5 | 255.4 | 205.3 | 166.2 | 144.7 | 141.8 |
| 110° | 529.7 | 471.3 | 413.6 | 357.7 | 303.3 | 251.0 | 202.8 | 165.8 | 145.5 | 142.9 |

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

Scaled Data Report

REPORT NUMBER: P1223983
CATALOG NUMBER: FFX-CLB-40-727-U-VM8-T4

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 513.7 | 458.2 | 403.0 | 349.0 | 296.8 | 246.0 | 200.3 | 165.1 | 146.2 | 144.0 |
| 115° | 497.0 | 444.4 | 392.5 | 340.3 | 289.1 | 241.2 | 197.7 | 164.7 | 146.9 | 144.7 |
| 117.5° | 478.9 | 429.5 | 379.8 | 330.1 | 281.2 | 235.4 | 194.1 | 163.3 | 146.9 | 144.7 |
| 120° | 459.3 | 413.9 | 366.0 | 319.2 | 272.1 | 228.6 | 190.5 | 161.4 | 146.2 | 144.4 |
| 122.5° | 437.9 | 395.4 | 350.1 | 305.5 | 261.9 | 220.6 | 185.0 | 158.2 | 144.4 | 142.6 |
| 125° | 414.3 | 374.8 | 333.8 | 290.6 | 249.2 | 211.5 | 178.5 | 154.5 | 141.5 | 140.0 |
| 127.5° | 389.6 | 353.3 | 314.2 | 275.0 | 237.3 | 201.7 | 171.6 | 149.1 | 137.5 | 136.0 |
| 130° | 362.1 | 329.4 | 293.9 | 257.6 | 223.1 | 190.5 | 163.3 | 142.9 | 132.4 | 131.0 |
| 132.5° | 335.6 | 305.8 | 273.9 | 241.6 | 208.2 | 179.6 | 154.2 | 136.0 | 127.0 | 125.5 |
| 135° | 308.0 | 281.9 | 253.2 | 222.7 | 194.4 | 167.6 | 145.1 | 129.1 | 120.8 | 119.7 |
| 137.5° | 281.2 | 259.0 | 232.2 | 205.3 | 180.3 | 156.0 | 136.4 | 122.6 | 115.0 | 114.3 |
| 140° | 256.1 | 235.4 | 213.0 | 189.4 | 166.2 | 145.1 | 128.1 | 115.4 | 109.2 | 108.1 |
| 142.5° | 231.8 | 214.0 | 193.7 | 173.8 | 152.4 | 134.6 | 119.7 | 108.5 | 103.4 | 102.7 |
| 145° | 209.0 | 194.1 | 176.3 | 158.2 | 140.0 | 124.4 | 111.7 | 102.3 | 98.0 | 97.6 |
| 147.5° | 187.6 | 175.2 | 159.6 | 144.4 | 129.1 | 116.1 | 104.5 | 97.2 | 93.2 | 92.9 |
| 150° | 168.0 | 156.7 | 144.4 | 131.3 | 118.6 | 107.0 | 98.3 | 91.8 | 88.5 | 88.2 |
| 152.5° | 149.5 | 140.8 | 130.6 | 120.1 | 109.2 | 100.1 | 92.1 | 87.4 | 84.9 | 84.5 |
| 155° | 133.5 | 126.6 | 118.3 | 109.2 | 100.9 | 93.6 | 87.4 | 83.8 | 81.6 | 81.6 |
| 157.5° | 120.1 | 114.3 | 108.1 | 100.9 | 94.0 | 88.2 | 83.8 | 80.5 | 78.7 | 78.7 |
| 160° | 108.5 | 103.4 | 98.7 | 93.2 | 88.5 | 83.8 | 80.5 | 78.0 | 76.5 | 76.5 |
| 162.5° | 98.7 | 95.0 | 91.4 | 87.4 | 83.4 | 80.5 | 77.6 | 75.8 | 75.1 | 74.7 |
| 165° | 90.7 | 88.5 | 85.6 | 82.7 | 80.2 | 77.6 | 75.8 | 74.7 | 74.0 | 74.0 |
| 167.5° | 84.5 | 83.1 | 80.9 | 79.1 | 77.3 | 75.5 | 74.4 | 73.6 | 73.3 | 73.3 |
| 170° | 79.8 | 78.7 | 77.3 | 76.2 | 75.1 | 74.0 | 73.3 | 72.9 | 72.6 | 72.6 |
| 172.5° | 76.2 | 75.1 | 74.4 | 74.0 | 73.3 | 72.9 | 72.6 | 72.2 | 72.2 | 72.2 |
| 175° | 73.6 | 72.9 | 72.9 | 72.6 | 72.2 | 72.2 | 71.8 | 71.8 | 71.8 | 72.2 |
| 177.5° | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 72.2 | 72.2 | 72.2 | 72.6 | 72.6 |
| 180° | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 |

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

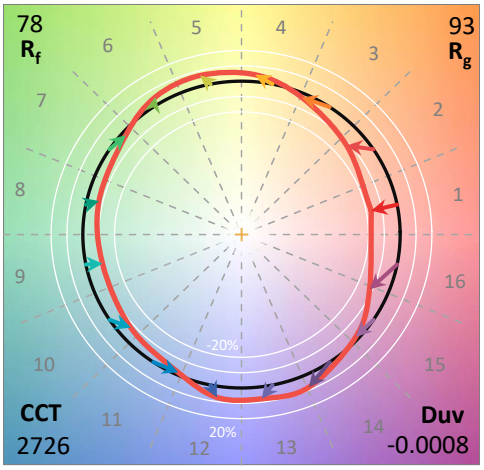
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-3 |
| 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-100-727-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2726 |
| CIE u': | 0.2616 |
| CIE v': | 0.5257 |
| Duv: | -0.0008 |
| CIE x: | 0.4564 |
| CIE y: | 0.4077 |
| CIE z: | 0.1358 |
| Peak Wavelength (nm): | 599 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 59.39437 |
| Rf: | 77.8 |
| Rg: | 93.1 |

| | |
|---|---|
| CRI (Ra): | 72.7 |
| R1: | 69.3 |
| R2: | 86.2 |
| R3: | 92.5 |
| R4: | 67.2 |
| R5: | 69.7 |
| R6: | 82.9 |
| R7: | 74.2 |
| R8: | 39.5 |
| R9: | -32.4 |
| R10: | 70.6 |
| R11: | 63.6 |
| R12: | 64.8 |
| R13: | 72.8 |
| R14: | 96.1 |
| R15: | 60.3 |




## Test Conditions

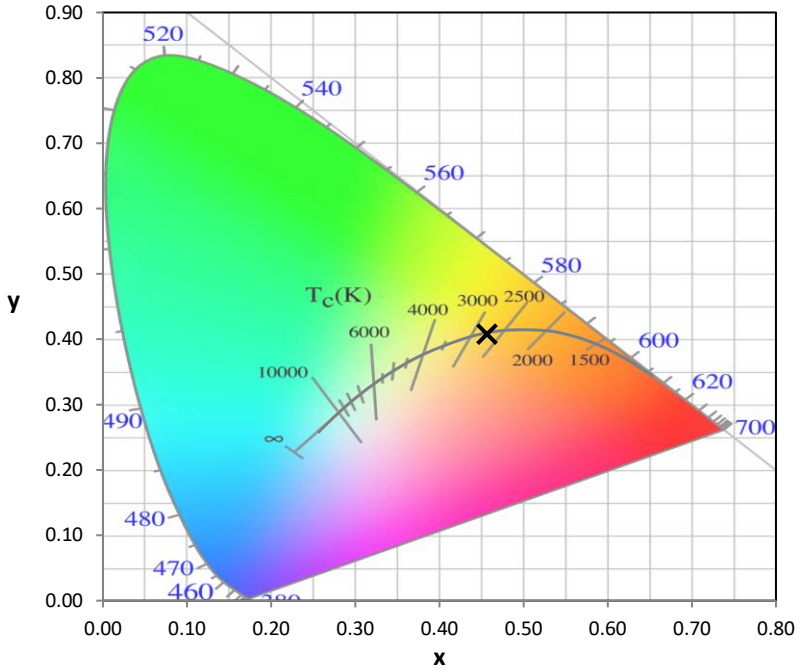
| | |
|---|---|
| Stabilization Time: | 75M |
| Operation Time: | 2H 15M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2501-332-3

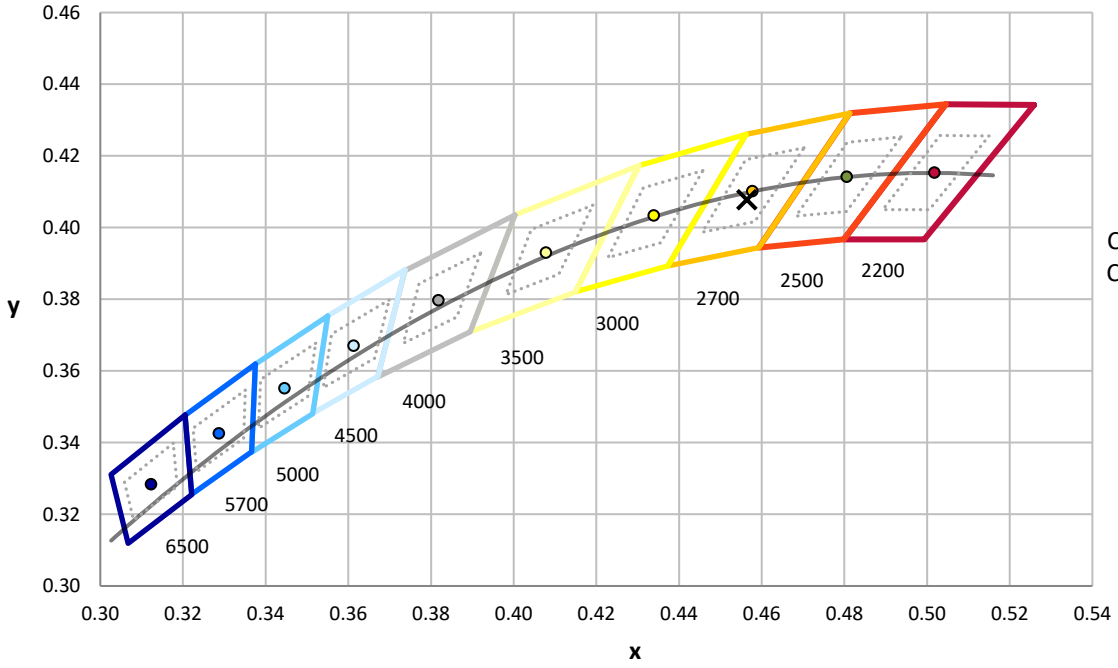
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-3

## CIE 1931 Chromaticity Diagram




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

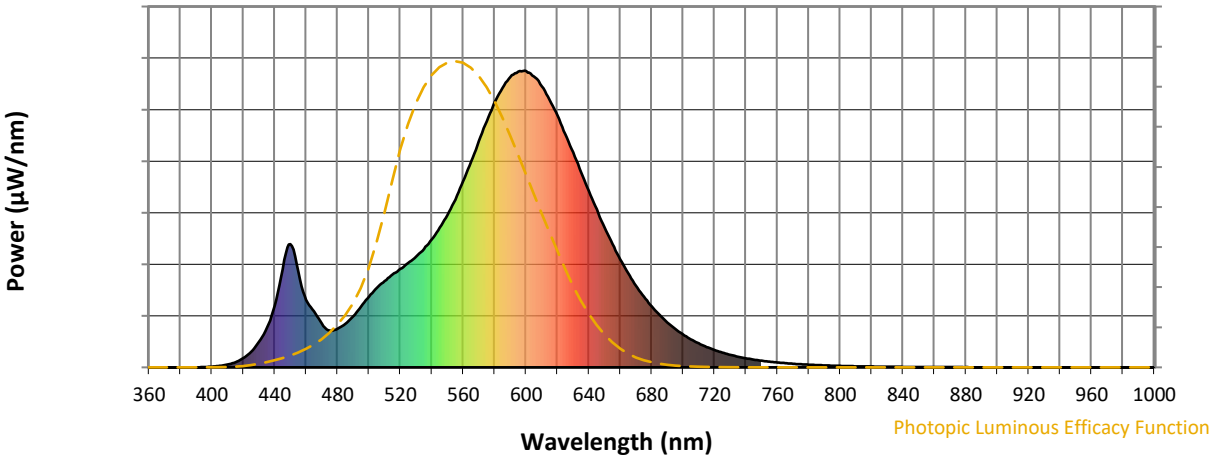



CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

## Photopic Flux vs. Wavelength

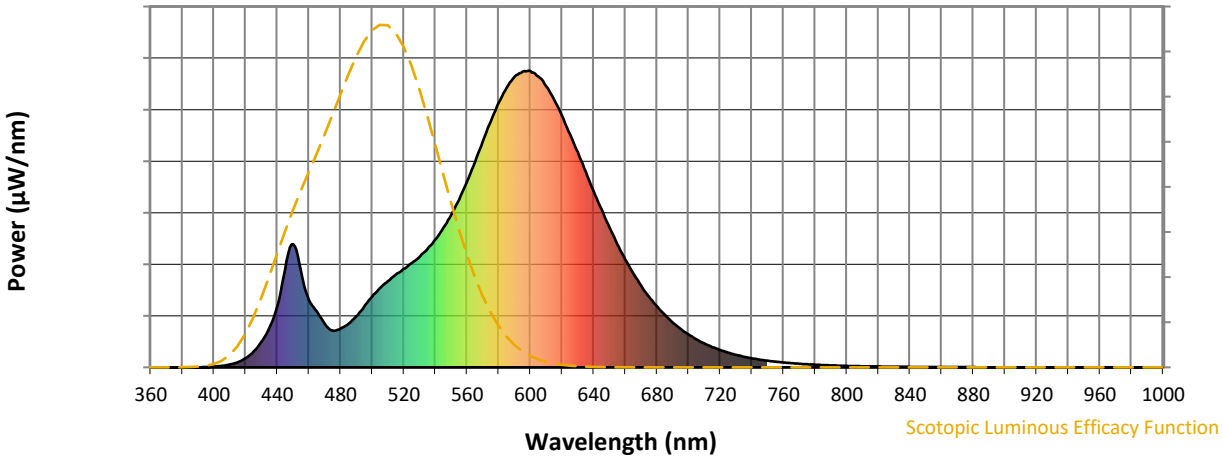



## Photopic Lumens: NR

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-3

## Scotopic Flux vs. Wavelength

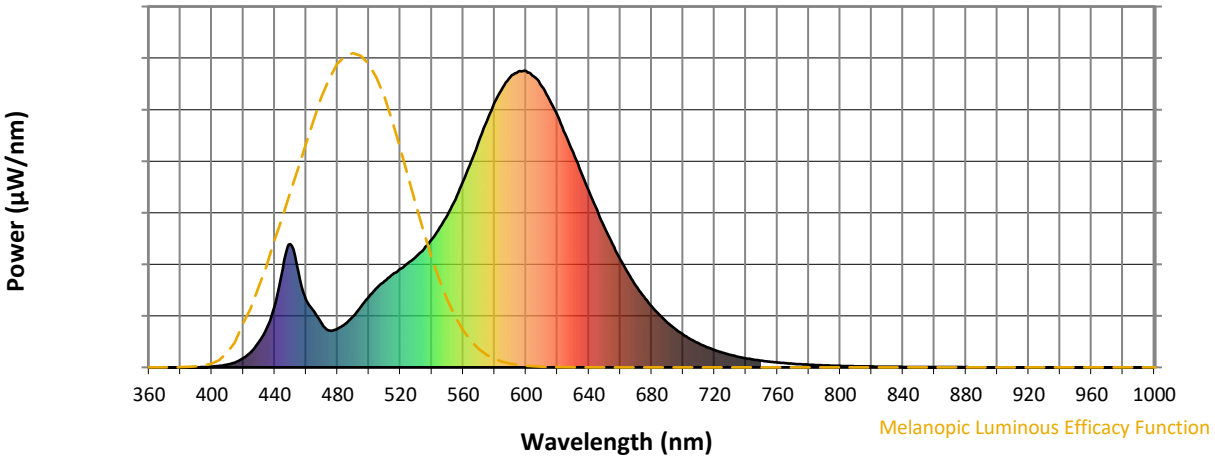



**Scotopic Lumens: NR** **S/P: 1.16**

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-3

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.15**

| 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 | 172 | NR | 620 | 849 | NR | 750 | 22 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 205 | NR | 625 | 786 | NR | 755 | 19 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 239 | NR | 630 | 724 | NR | 760 | 17 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 268 | NR | 635 | 659 | NR | 765 | 14 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 291 | NR | 640 | 594 | NR | 770 | 12 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 313 | NR | 645 | 533 | NR | 775 | 10 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 332 | NR | 650 | 472 | NR | 780 | 9 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 352 | NR | 655 | 416 | NR | 785 | 8 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 374 | NR | 660 | 364 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 399 | NR | 665 | 317 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 10 | NR | 540 | 432 | NR | 670 | 275 | NR | 800 | 5 | NR | 930 | 0 | NR |
| 415 | 18 | NR | 545 | 471 | NR | 675 | 238 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 31 | NR | 550 | 513 | NR | 680 | 206 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 52 | NR | 555 | 565 | NR | 685 | 177 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 86 | NR | 560 | 628 | NR | 690 | 151 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 134 | NR | 565 | 693 | NR | 695 | 130 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 207 | NR | 570 | 763 | NR | 700 | 111 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 330 | NR | 575 | 829 | NR | 705 | 94 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 415 | NR | 580 | 893 | NR | 710 | 80 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 323 | NR | 585 | 942 | NR | 715 | 68 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 228 | NR | 590 | 979 | NR | 720 | 58 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 189 | NR | 595 | 996 | NR | 725 | 50 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 146 | NR | 600 | 998 | NR | 730 | 43 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 125 | NR | 605 | 980 | NR | 735 | 36 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 131 | NR | 610 | 947 | NR | 740 | 31 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 147 | NR | 615 | 902 | NR | 745 | 26 | NR | 875 | 1 | NR | | | |

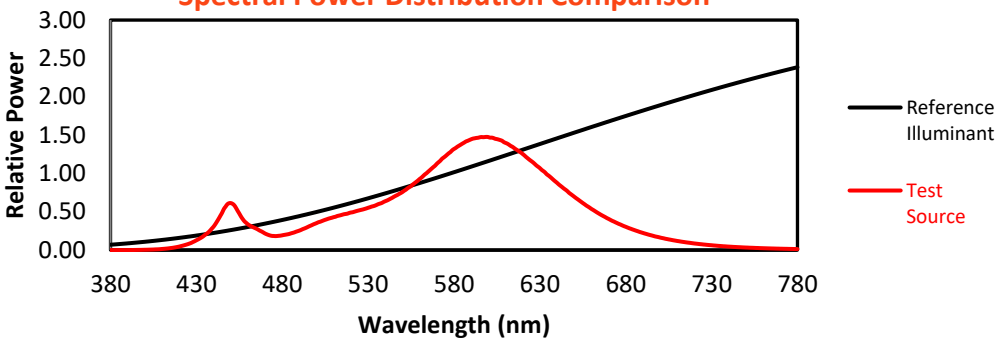
REPORT NUMBER: SP1-2501-332-3

# TM-30-18

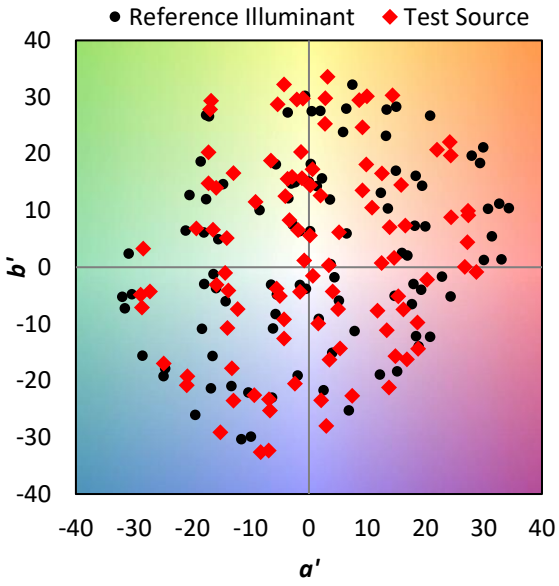
## Summary

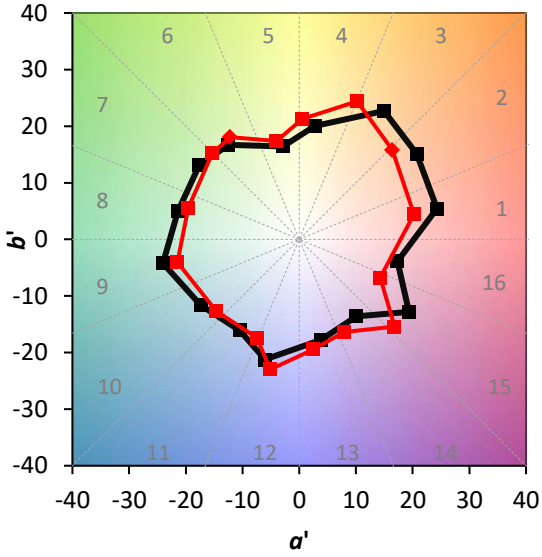
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$R_g$ = 93.1
CIE $R_a$ = 72.7
$R_9$ = -32.4

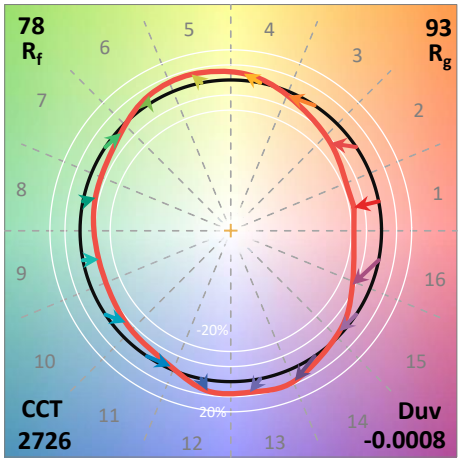
## Spectral Power Distribution Comparison

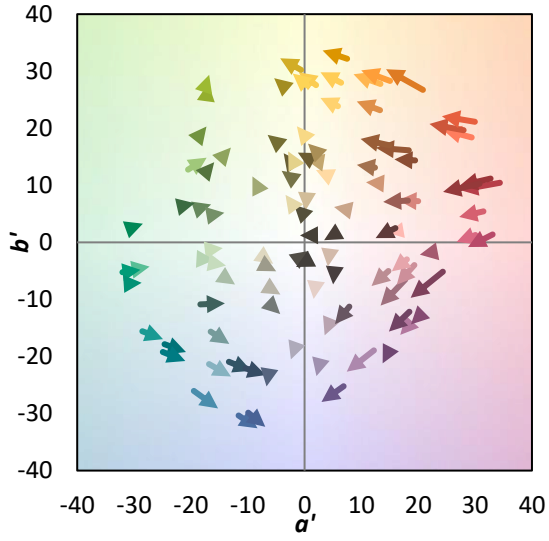



## Color Vector Graphics



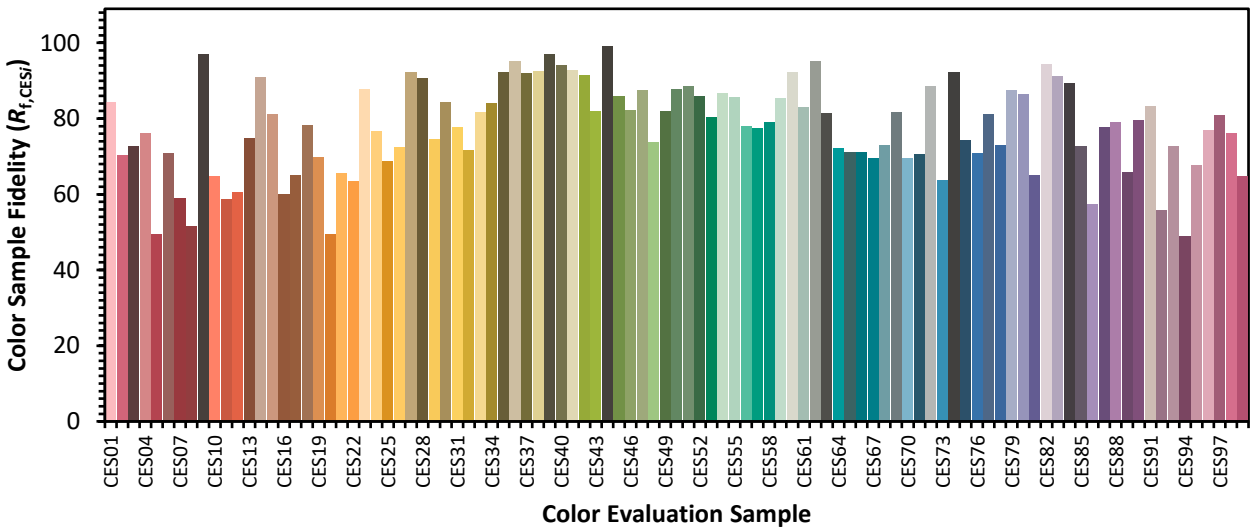



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**Individual Sample Fidelity Index ($R_{f,i}$)**

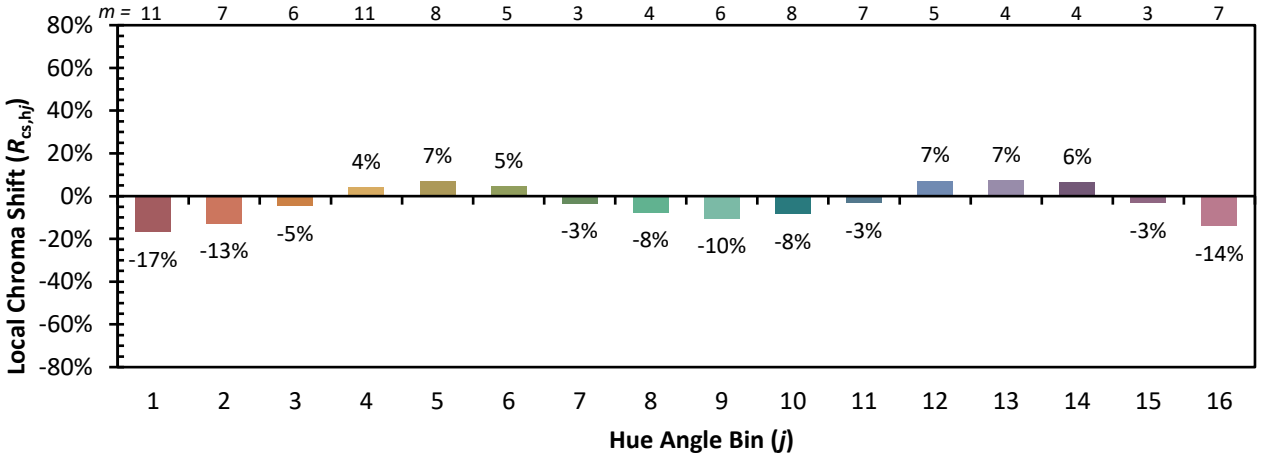
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 72 | CES51 = 88 | CES76 = 71 |
| CES02 = 63 | CES27 = 92 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 91 | CES53 = 80 | CES78 = 73 |
| CES04 = 71 | CES29 = 75 | CES54 = 87 | CES79 = 88 |
| CES05 = 50 | CES30 = 84 | CES55 = 86 | CES80 = 87 |
| CES06 = 52 | CES31 = 78 | CES56 = 78 | CES81 = 65 |
| CES07 = 42 | CES32 = 72 | CES57 = 77 | CES82 = 94 |
| CES08 = 41 | CES33 = 82 | CES58 = 79 | CES83 = 91 |
| CES09 = 29 | CES34 = 84 | CES59 = 85 | CES84 = 89 |
| CES10 = 77 | CES35 = 92 | CES60 = 92 | CES85 = 73 |
| CES11 = 60 | CES36 = 95 | CES61 = 83 | CES86 = 57 |
| CES12 = 66 | CES37 = 92 | CES62 = 95 | CES87 = 78 |
| CES13 = 44 | CES38 = 93 | CES63 = 82 | CES88 = 79 |
| CES14 = 74 | CES39 = 97 | CES64 = 72 | CES89 = 66 |
| CES15 = 72 | CES40 = 94 | CES65 = 71 | CES90 = 80 |
| CES16 = 48 | CES41 = 93 | CES66 = 71 | CES91 = 83 |
| CES17 = 51 | CES42 = 92 | CES67 = 69 | CES92 = 56 |
| CES18 = 57 | CES43 = 82 | CES68 = 73 | CES93 = 73 |
| CES19 = 73 | CES44 = 99 | CES69 = 82 | CES94 = 49 |
| CES20 = 67 | CES45 = 86 | CES70 = 70 | CES95 = 68 |
| CES21 = 87 | CES46 = 82 | CES71 = 71 | CES96 = 77 |
| CES22 = 80 | CES47 = 88 | CES72 = 89 | CES97 = 81 |
| CES23 = 92 | CES48 = 74 | CES73 = 64 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 92 | CES99 = 65 |
| CES25 = 73 | CES50 = 88 | CES75 = 74 | |

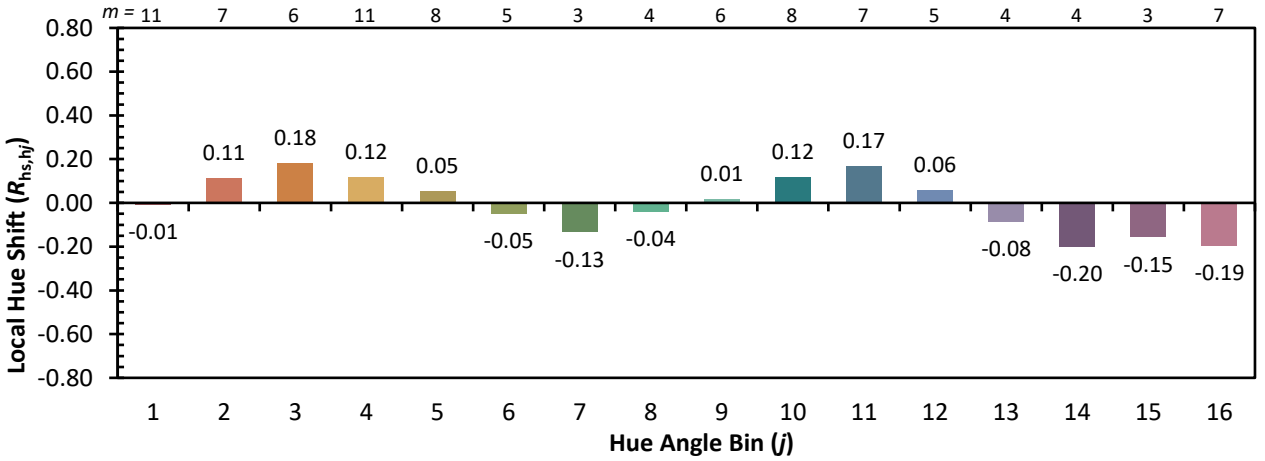


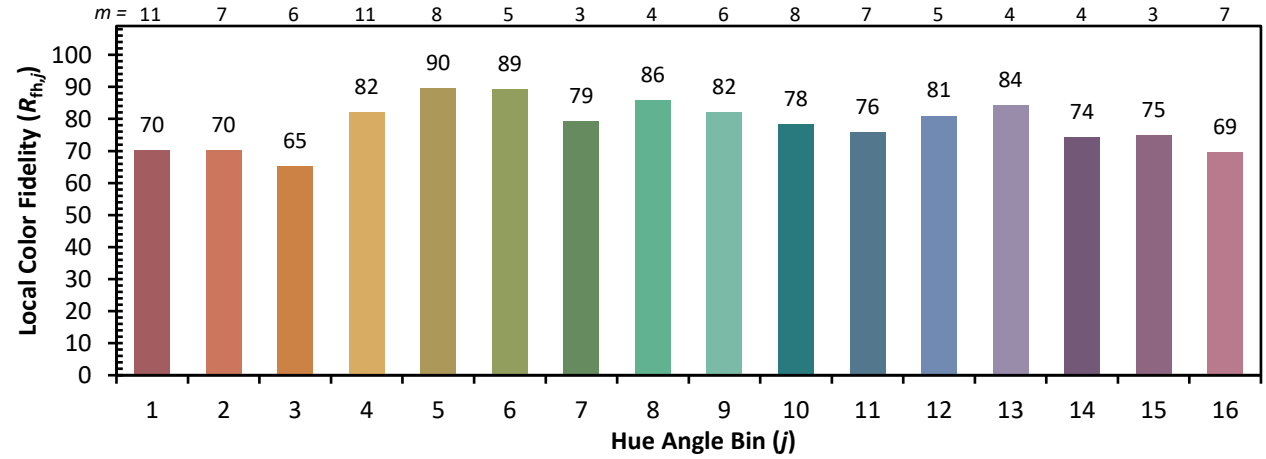
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## Color Rendition by Hue-Angle Bin



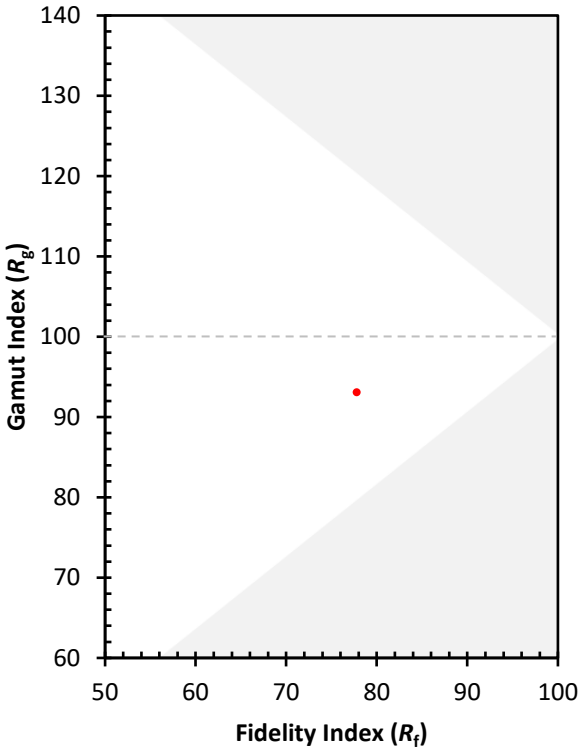



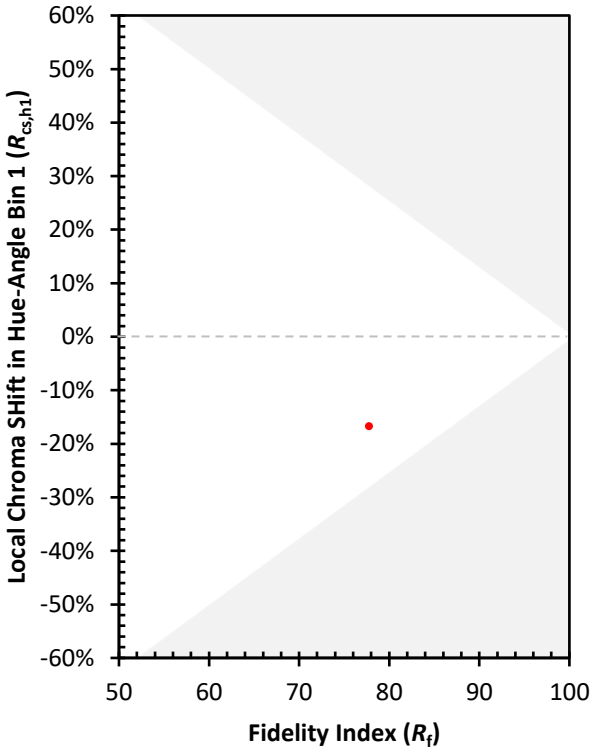



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## Measure Comparisons




(END OF REPORT)