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: P1045963

Luminaire Tested: **FFX-CLB-40-722-U-PG-T5-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: | P1045963 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-40-722-U-PG-T5-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE AND HOUSE SIDE SHIELD |
| Light Source: | (6) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3643.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 92.5 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.33' x H: 2.08') |
| 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 |

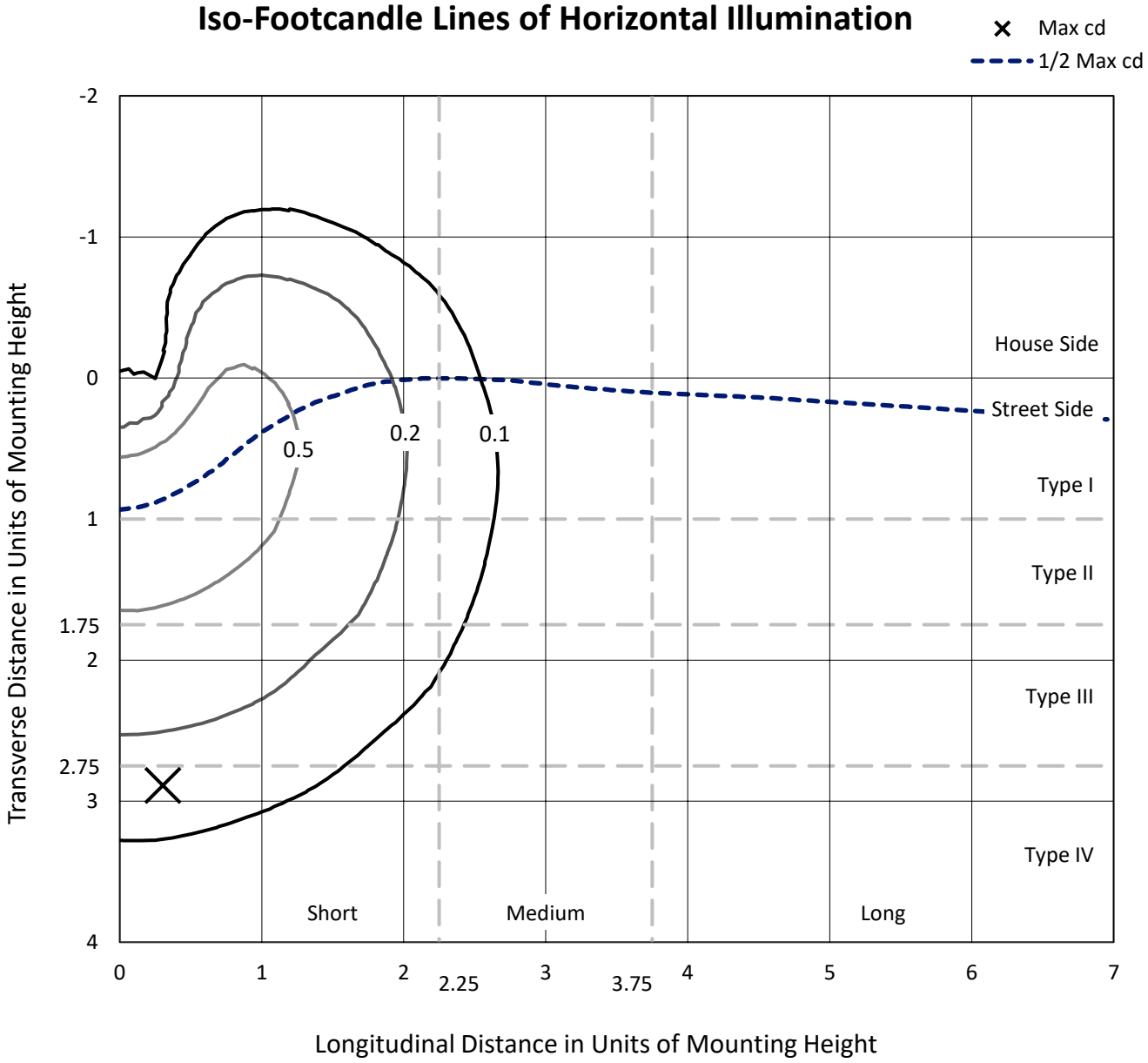


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REPORT NUMBER: P1045963
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## Iso-Footcandle Lines of Horizontal Illumination



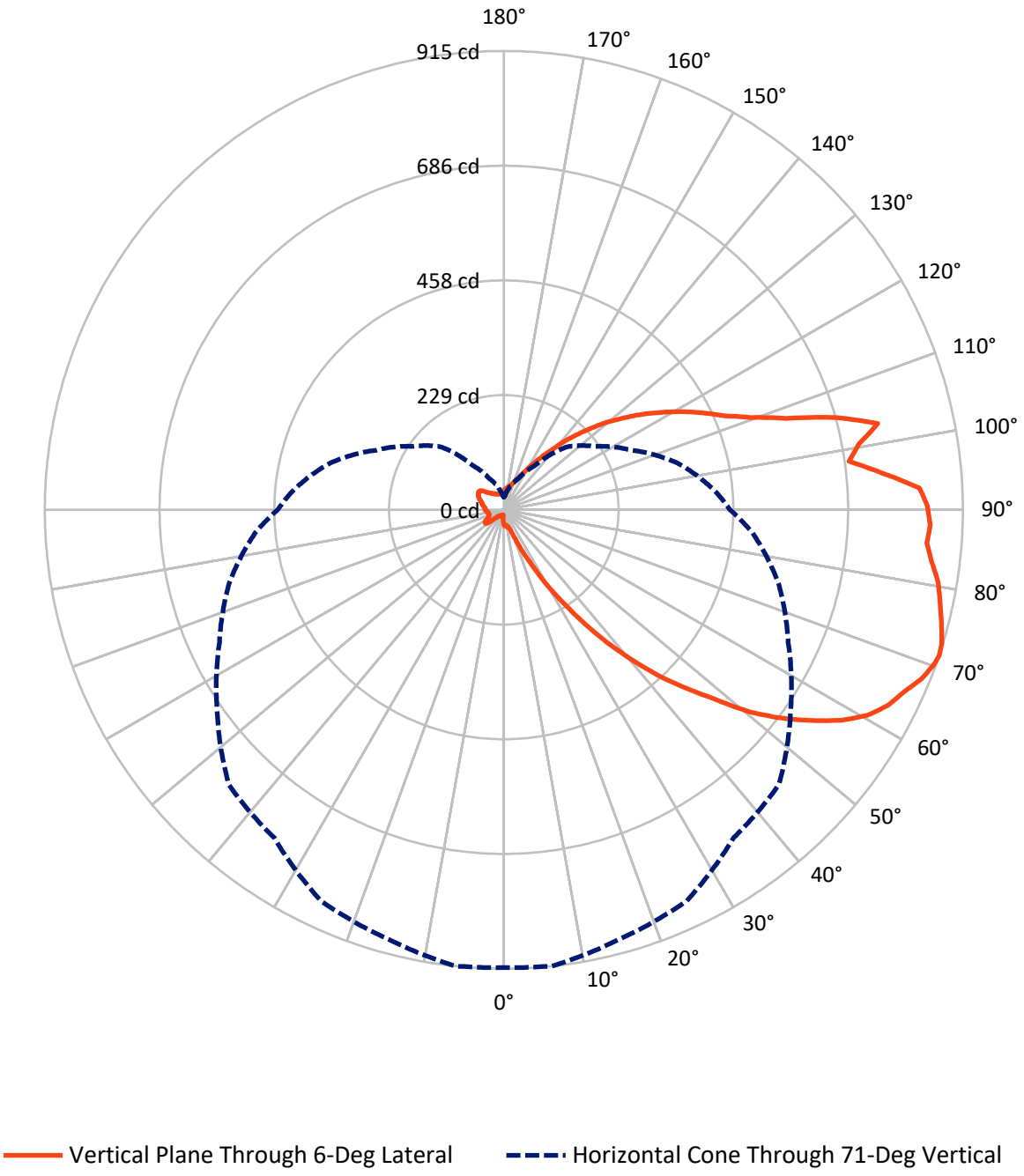

Based on 15 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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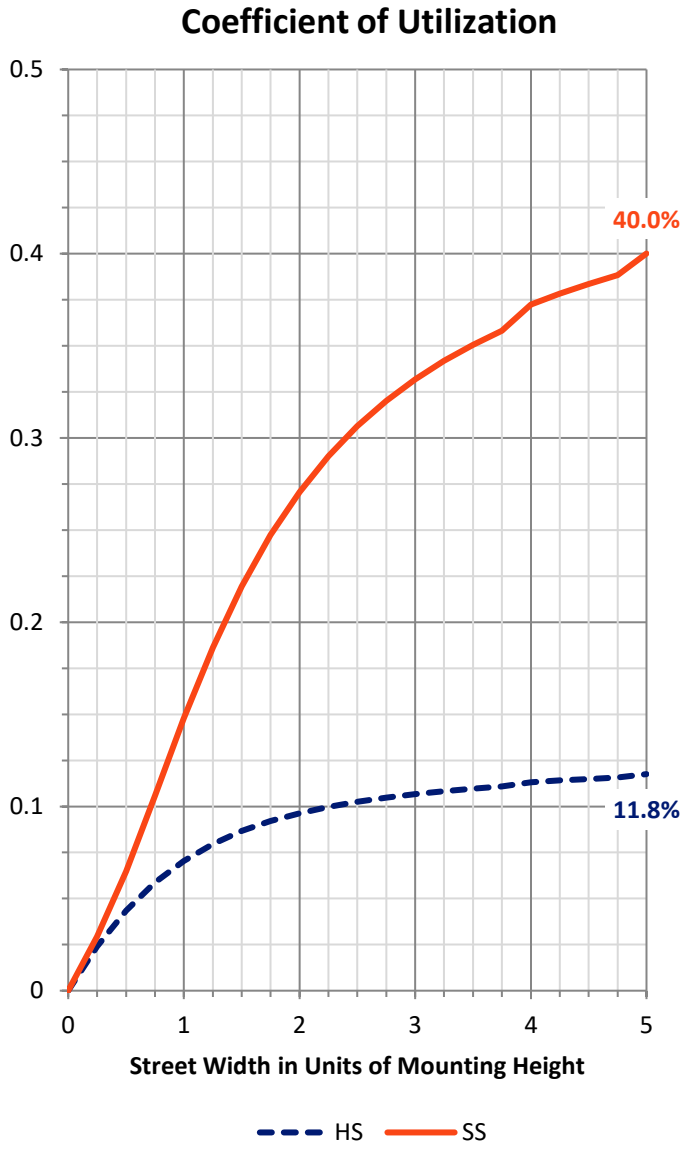
REPORT NUMBER: P1045963
CATALOG NUMBER: FFX-CLB-40-722-U-PG-T5-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 467.9 | 371.0 | 838.9 |
| | % Fixture | 12.8 | 10.2 | 23.0 |
| **Street Side** | Lumens | 1706.7 | 1097.9 | 2804.6 |
| | % Fixture | 46.8 | 30.1 | 77.0 |
| **Total** | Lumens | 2174.6 | 1468.9 | 3643.5 |
| | % Fixture | 59.7 | 40.3 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 2.4 | 0.1 |
| 10°-20° | 7.6 | 0.2 |
| 20°-30° | 34.6 | 0.9 |
| 30°-40° | 115.7 | 3.2 |
| 40°-50° | 235.7 | 6.5 |
| 50°-60° | 362.7 | 10.0 |
| 60°-70° | 451.3 | 12.4 |
| 70°-80° | 482.7 | 13.2 |
| 80°-90° | 481.8 | 13.2 |
| 90°-100° | 435.5 | 12.0 |
| 100°-110° | 380.9 | 10.5 |
| 110°-120° | 259.6 | 7.1 |
| 120°-130° | 183.4 | 5.0 |
| 130°-140° | 111.2 | 3.1 |
| 140°-150° | 56.4 | 1.5 |
| 150°-160° | 26.3 | 0.7 |
| 160°-170° | 12.0 | 0.3 |
| 170°-180° | 3.7 | 0.1 |
| 0°-90° | 2174.6 | 59.7 |
| 0°-180° | 3643.5 | 100.0 |



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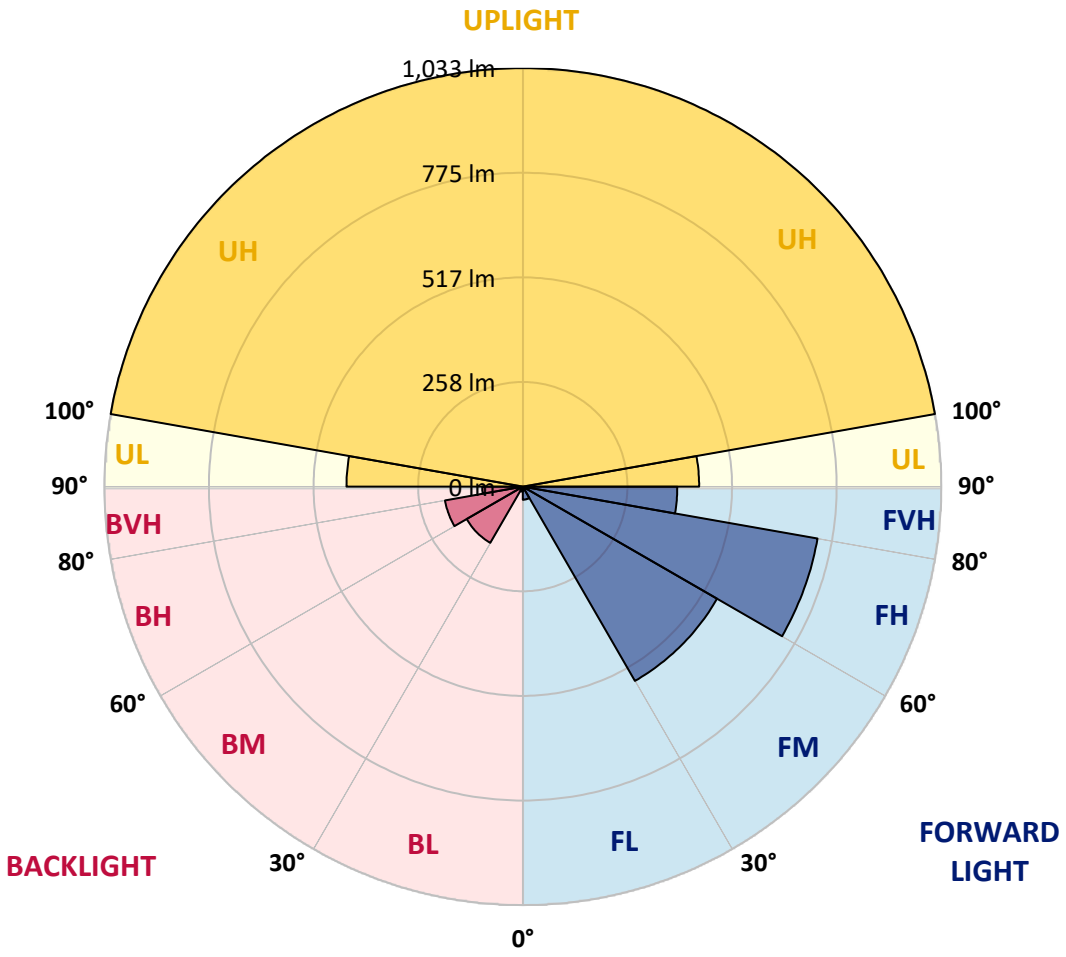
Scaled Data Report

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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 32.2 | 0.9 | | | |
| FM | (30°-60°) | 553.9 | 15.2 | | | |
| FH | (60°-80°) | 739.0 | 20.3 | | | G1/1800 |
| FVH | (80°-90°) | 381.6 | 10.5 | | | G3/500 |
| BL | (0°-30°) | 12.3 | 0.3 | B0/110 | | |
| BM | (30°-60°) | 160.2 | 4.4 | B0/220 | | |
| BH | (60°-80°) | 195.0 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 100.3 | 2.8 | | | G2/225 |
| UL | (90°-100°) | 435.5 | 12.0 | | U3/500 | |
| UH | (100°-180°) | 1033.5 | 28.4 | | U5 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 6° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 29.7 | 29.7 | *29.7* | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 |
| 2.5° | 32.0 | 32.0 | *32.0* | 32.0 | 32.0 | 32.0 | 31.7 | 30.9 | 30.5 | 30.1 | 29.7 |
| 5° | 30.5 | 30.5 | *30.5* | 30.5 | 30.5 | 30.5 | 30.5 | 30.1 | 29.7 | 28.9 | 28.1 |
| 7.5° | 30.5 | 30.5 | *30.5* | 30.5 | 30.1 | 29.7 | 29.3 | 28.9 | 28.5 | 26.9 | 25.3 |
| 10° | 33.2 | 33.6 | *33.2* | 33.2 | 32.0 | 30.9 | 30.1 | 28.9 | 28.1 | 27.3 | 25.3 |
| 12.5° | 35.2 | 35.2 | *35.2* | 34.8 | 34.0 | 33.2 | 31.7 | 29.7 | 28.1 | 26.5 | 24.9 |
| 15° | 36.4 | 36.4 | *36.4* | 36.4 | 35.6 | 34.4 | 33.2 | 31.7 | 30.1 | 28.1 | 26.1 |
| 17.5° | 41.2 | 41.2 | *41.2* | 40.8 | 40.0 | 39.2 | 38.4 | 37.6 | 36.4 | 34.4 | 32.4 |
| 20° | 54.2 | 55.4 | *55.0* | 53.8 | 53.0 | 52.2 | 52.6 | 51.8 | 51.0 | 48.3 | 45.1 |
| 22.5° | 75.2 | 76.8 | *76.4* | 76.8 | 75.6 | 74.8 | 74.4 | 75.2 | 73.6 | 69.6 | 63.7 |
| 25° | 105.6 | 105.6 | *104.5* | 107.6 | 108.0 | 104.1 | 104.9 | 104.5 | 103.3 | 96.1 | 86.7 |
| 27.5° | 139.7 | 138.9 | *138.5* | 143.6 | 144.4 | 142.8 | 144.4 | 141.7 | 137.7 | 129.8 | 117.9 |
| 30° | 179.2 | 182.4 | *184.0* | 184.8 | 187.2 | 188.7 | 190.7 | 188.3 | 177.7 | 168.2 | 151.5 |
| 32.5° | 229.5 | 227.5 | *227.1* | 235.4 | 239.8 | 240.2 | 244.9 | 238.2 | 226.3 | 208.5 | 186.8 |
| 35° | 284.9 | 280.1 | *280.9* | 286.1 | 293.2 | 298.3 | 301.9 | 288.8 | 276.6 | 253.2 | 224.7 |
| 37.5° | 337.1 | 337.5 | *337.1* | 339.1 | 352.5 | 354.1 | 354.9 | 340.3 | 322.5 | 298.3 | 262.7 |
| 40° | 390.5 | 391.3 | *393.3* | 399.6 | 413.9 | 411.1 | 404.8 | 391.7 | 368.8 | 341.5 | 299.5 |
| 42.5° | 445.5 | 450.7 | *451.9* | 455.0 | 464.9 | 464.1 | 453.4 | 438.8 | 412.3 | 378.3 | 331.2 |
| 45° | 504.5 | 503.7 | *505.7* | 510.0 | 517.9 | 517.9 | 498.9 | 477.6 | 448.7 | 410.3 | 359.7 |
| 47.5° | 560.3 | 566.2 | *562.6* | 573.3 | 569.4 | 572.1 | 539.7 | 513.6 | 481.9 | 436.4 | 383.4 |
| 50° | 630.7 | 633.9 | *632.7* | 631.5 | 619.6 | 619.6 | 586.4 | 551.2 | 515.6 | 461.8 | 407.1 |
| 52.5° | 690.4 | 691.6 | *689.7* | 684.9 | 668.3 | 662.8 | 623.6 | 582.8 | 545.2 | 491.4 | 430.1 |
| 55° | 745.8 | 737.9 | *741.5* | 734.0 | 707.9 | 701.9 | 664.7 | 607.0 | 571.4 | 512.8 | 449.9 |
| 57.5° | 786.6 | 791.0 | *792.1* | 775.9 | 749.8 | 725.7 | 700.7 | 635.8 | 591.1 | 533.0 | 462.9 |
| 60° | 821.4 | 833.3 | *832.5* | 808.0 | 785.0 | 741.9 | 728.0 | 661.2 | 604.2 | 550.8 | 477.2 |
| 62.5° | 847.5 | 860.2 | *859.4* | 839.6 | 819.0 | 758.5 | 743.1 | 676.2 | 612.1 | 559.9 | 487.9 |
| 65° | 873.3 | 879.2 | *876.4* | 868.5 | 844.0 | 773.9 | 757.3 | 682.9 | 618.8 | 563.8 | 491.8 |
| 67.5° | 899.4 | 899.0 | *898.6* | 887.5 | 861.0 | 788.2 | 768.8 | 692.8 | 625.6 | 568.2 | 494.6 |
| 70° | 912.4 | 913.2 | *912.8* | 889.5 | 864.9 | 797.7 | 775.1 | 698.0 | 627.1 | 568.2 | 497.0 |
| 71° | *913.2* | *914.4* | *915.2* | *887.1* | *861.4* | *798.5* | *775.5* | *698.0* | *625.6* | *567.0* | *495.8* |
| 72.5° | 907.7 | 913.6 | *912.8* | 881.2 | 856.2 | 797.3 | 772.8 | 694.8 | 623.2 | 562.3 | 492.2 |
| 75° | 895.4 | 906.1 | *901.3* | 869.3 | 843.2 | 789.4 | 765.2 | 691.6 | 617.3 | 555.9 | 489.1 |
| 77.5° | 884.7 | 897.0 | *889.1* | 859.4 | 836.1 | 783.8 | 761.3 | 692.4 | 612.9 | 552.0 | 487.9 |
| 80° | 877.6 | 884.3 | *878.0* | 853.5 | 830.1 | 777.5 | 758.5 | 692.8 | 611.7 | 550.0 | 484.3 |
| 82.5° | 866.9 | 864.2 | *859.8* | 840.4 | 816.7 | 766.0 | 747.4 | 686.5 | 608.9 | 546.0 | 480.3 |
| 85° | 857.4 | 845.9 | *845.9* | 828.5 | 804.4 | 756.9 | 734.4 | 679.0 | 604.2 | 542.1 | 475.6 |
| 87.5° | 863.0 | 847.5 | *850.7* | 834.1 | 807.6 | 758.1 | 732.0 | 678.2 | 606.2 | 542.9 | 472.8 |
| 90° | 857.4 | 842.8 | *844.4* | 827.0 | 796.1 | 745.8 | 714.2 | 662.4 | 593.5 | 531.8 | 462.9 |
| 92.5° | 847.9 | 832.5 | *830.1* | 812.3 | 781.1 | 733.6 | 700.3 | 652.1 | 583.6 | 523.1 | 459.4 |
| 95° | 774.7 | 763.6 | *758.9* | 746.2 | 722.1 | 680.6 | 654.4 | 608.1 | 540.1 | 484.7 | 429.7 |
| 97.5° | 699.6 | 701.5 | *694.8* | 679.8 | 653.3 | 620.8 | 591.9 | 547.6 | 490.2 | 442.4 | 388.9 |
| 100° | 729.2 | 726.5 | *719.7* | 699.6 | 671.9 | 635.5 | 601.4 | 558.7 | 502.9 | 459.8 | 400.8 |
| 102.5° | 761.7 | 768.0 | *765.2* | 739.9 | 708.7 | 679.4 | 653.7 | 610.9 | 549.6 | 504.1 | 441.2 |
| 105° | 673.0 | 685.7 | *688.5* | 668.7 | 645.7 | 621.2 | 598.7 | 568.6 | 515.6 | 468.9 | 419.4 |
| 107.5° | 586.8 | 588.8 | *590.7* | 575.7 | 564.2 | 542.5 | 519.9 | 492.6 | 452.3 | 416.6 | 368.4 |

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REPORT NUMBER: P1045963
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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 6° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 527.0 | 529.0 | *525.8* | 519.5 | 507.6 | 491.0 | 466.1 | 447.1 | 411.9 | 381.8 | 337.9 |
| 112.5° | 479.6 | 481.5 | *479.2* | 471.2 | 460.6 | 447.5 | 421.4 | 405.6 | 375.5 | 347.4 | 307.8 |
| 115° | 449.1 | 451.5 | *447.5* | 439.2 | 430.1 | 423.0 | 400.4 | 377.1 | 349.8 | 324.8 | 290.8 |
| 117.5° | 420.2 | 425.0 | *415.9* | 413.5 | 406.8 | 399.6 | 373.9 | 353.3 | 329.6 | 307.0 | 279.7 |
| 120° | 388.6 | 392.5 | *385.0* | 382.2 | 378.3 | 371.1 | 347.0 | 328.4 | 309.4 | 289.2 | 263.1 |
| 122.5° | 363.2 | 357.7 | *354.1* | 354.1 | 349.4 | 344.6 | 319.7 | 304.3 | 289.2 | 272.2 | 245.3 |
| 125° | 334.3 | 326.8 | *325.2* | 328.0 | 322.1 | 315.7 | 296.0 | 282.1 | 270.6 | 253.6 | 227.1 |
| 127.5° | 301.9 | 294.8 | *294.8* | 296.0 | 292.4 | 286.1 | 273.0 | 261.5 | 254.4 | 236.2 | 209.7 |
| 130° | 271.4 | 267.5 | *268.3* | 265.5 | 261.9 | 256.8 | 247.3 | 239.0 | 233.1 | 214.9 | 195.9 |
| 132.5° | 235.0 | 239.4 | *239.4* | 234.6 | 233.8 | 229.9 | 222.4 | 218.4 | 209.3 | 194.3 | 178.4 |
| 135° | 209.3 | 212.9 | *212.5* | 208.1 | 207.7 | 205.4 | 199.8 | 196.3 | 187.5 | 174.9 | 161.8 |
| 137.5° | 187.5 | 187.5 | *186.8* | 184.0 | 182.4 | 182.0 | 176.9 | 173.3 | 165.0 | 156.3 | 145.6 |
| 140° | 166.2 | 162.6 | *161.4* | 161.8 | 159.5 | 159.1 | 154.7 | 150.4 | 146.4 | 138.1 | 129.4 |
| 142.5° | 144.0 | 141.7 | *140.5* | 138.9 | 138.1 | 136.9 | 134.1 | 130.6 | 126.6 | 121.1 | 113.2 |
| 145° | 123.1 | 123.1 | *122.3* | 120.7 | 120.7 | 119.1 | 116.3 | 114.3 | 110.8 | 104.9 | 98.5 |
| 147.5° | 106.8 | 105.6 | *105.6* | 105.2 | 104.1 | 103.3 | 100.9 | 98.1 | 95.8 | 91.0 | 85.1 |
| 150° | 91.8 | 91.8 | *91.0* | 91.8 | 91.0 | 89.8 | 88.2 | 85.9 | 83.1 | 79.5 | 74.8 |
| 152.5° | 79.9 | 80.3 | *79.5* | 80.7 | 79.9 | 79.1 | 77.2 | 75.6 | 72.4 | 69.2 | 66.1 |
| 155° | 71.2 | 71.6 | *71.2* | 70.8 | 70.8 | 69.6 | 68.8 | 66.5 | 64.5 | 61.7 | 59.0 |
| 157.5° | 63.3 | 63.7 | *63.7* | 63.7 | 63.7 | 62.5 | 60.9 | 59.4 | 57.8 | 55.4 | 53.0 |
| 160° | 58.2 | 57.8 | *57.8* | 57.4 | 57.0 | 56.6 | 55.4 | 53.8 | 52.6 | 50.6 | 48.7 |
| 162.5° | 53.0 | 53.0 | *53.0* | 52.6 | 52.2 | 51.8 | 51.0 | 49.5 | 48.3 | 46.7 | 45.1 |
| 165° | 49.5 | 49.5 | *49.5* | 49.5 | 48.7 | 48.3 | 47.5 | 46.3 | 45.5 | 43.9 | 42.3 |
| 167.5° | 47.1 | 47.1 | *47.1* | 46.7 | 46.3 | 45.9 | 45.5 | 44.3 | 43.5 | 42.3 | 41.2 |
| 170° | 45.1 | 45.1 | *45.1* | 45.1 | 44.7 | 43.9 | 43.5 | 42.7 | 41.9 | 41.2 | 40.0 |
| 172.5° | 43.1 | 43.1 | *43.1* | 43.1 | 42.7 | 42.7 | 42.3 | 41.5 | 41.2 | 40.0 | 39.6 |
| 175° | 41.5 | 41.5 | *41.5* | 41.5 | 41.2 | 41.2 | 40.8 | 40.4 | 40.0 | 39.6 | 38.8 |
| 177.5° | 40.4 | 40.4 | *40.4* | 40.4 | 40.0 | 40.0 | 40.0 | 39.6 | 39.2 | 38.8 | 38.8 |
| 180° | 38.8 | 38.8 | *38.8* | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 |
| 2.5° | 29.7 | 29.7 | 28.9 | 28.5 | 28.1 | 27.3 | 26.5 | 25.3 | 25.3 | 25.3 | 24.9 |
| 5° | 27.7 | 27.3 | 26.5 | 25.3 | 24.9 | 24.5 | 23.7 | 22.2 | 20.2 | 18.6 | 18.6 |
| 7.5° | 25.7 | 23.7 | 21.8 | 21.0 | 19.8 | 17.8 | 15.8 | 13.5 | 10.7 | 10.3 | 10.3 |
| 10° | 24.1 | 22.9 | 20.6 | 18.6 | 16.6 | 16.2 | 14.6 | 12.3 | 11.1 | 9.9 | 9.9 |
| 12.5° | 23.7 | 22.9 | 20.2 | 17.8 | 15.4 | 14.2 | 13.1 | 11.9 | 10.7 | 9.9 | 9.9 |
| 15° | 24.9 | 24.1 | 21.4 | 18.6 | 15.8 | 14.2 | 12.7 | 11.5 | 11.1 | 10.7 | 10.7 |
| 17.5° | 31.3 | 30.1 | 26.1 | 21.8 | 18.2 | 15.8 | 13.8 | 12.7 | 12.3 | 11.9 | 11.9 |
| 20° | 42.3 | 40.4 | 34.8 | 28.9 | 23.3 | 18.2 | 15.4 | 13.5 | 13.1 | 12.7 | 12.7 |
| 22.5° | 60.1 | 56.6 | 47.1 | 38.0 | 29.7 | 22.9 | 17.8 | 14.2 | 13.1 | 12.7 | 12.7 |
| 25° | 81.9 | 77.2 | 63.3 | 49.9 | 37.6 | 29.3 | 21.8 | 16.2 | 13.1 | 12.3 | 12.3 |
| 27.5° | 110.8 | 102.5 | 83.9 | 66.9 | 50.3 | 37.2 | 27.3 | 19.4 | 14.2 | 12.3 | 11.9 |
| 30° | 141.3 | 131.0 | 107.2 | 84.7 | 63.7 | 46.7 | 33.6 | 23.3 | 16.2 | 12.3 | 11.9 |
| 32.5° | 174.5 | 160.6 | 134.5 | 106.4 | 79.1 | 57.8 | 41.2 | 27.3 | 18.6 | 13.1 | 12.3 |
| 35° | 208.5 | 193.1 | 160.6 | 129.4 | 95.0 | 68.8 | 49.1 | 31.7 | 20.2 | 13.8 | 13.1 |
| 37.5° | 242.9 | 225.5 | 190.3 | 150.0 | 110.4 | 80.3 | 57.0 | 36.4 | 21.8 | 14.6 | 13.8 |
| 40° | 277.4 | 256.4 | 217.6 | 169.3 | 125.4 | 91.8 | 64.5 | 40.4 | 22.9 | 15.8 | 15.4 |
| 42.5° | 304.3 | 282.9 | 240.2 | 185.6 | 141.3 | 102.1 | 72.0 | 43.5 | 24.1 | 17.8 | 17.0 |
| 45° | 328.8 | 306.3 | 259.2 | 200.2 | 153.5 | 114.3 | 80.7 | 48.7 | 26.5 | 20.2 | 19.4 |
| 47.5° | 353.7 | 331.6 | 278.9 | 214.5 | 165.4 | 126.6 | 91.0 | 54.2 | 32.8 | 26.1 | 25.7 |
| 50° | 375.5 | 351.0 | 300.3 | 233.8 | 180.4 | 138.1 | 101.7 | 60.9 | 38.8 | 38.0 | 38.4 |
| 52.5° | 396.5 | 371.9 | 318.5 | 248.1 | 190.7 | 151.9 | 112.0 | 63.7 | 43.9 | 44.7 | 45.5 |
| 55° | 419.8 | 391.3 | 333.2 | 259.2 | 196.6 | 161.0 | 117.9 | 66.1 | 48.7 | 45.5 | 44.7 |
| 57.5° | 435.6 | 402.8 | 345.0 | 271.4 | 203.0 | 166.6 | 118.3 | 68.8 | 52.6 | 43.9 | 42.7 |
| 60° | 446.3 | 409.1 | 351.4 | 278.2 | 211.7 | 171.7 | 117.1 | 69.2 | 55.0 | 40.4 | 36.8 |
| 62.5° | 453.4 | 417.4 | 356.9 | 279.7 | 218.4 | 175.7 | 116.7 | 67.7 | 54.2 | 36.0 | 33.2 |
| 65° | 456.6 | 424.6 | 362.0 | 280.5 | 219.6 | 178.4 | 116.7 | 66.9 | 53.0 | 31.7 | 28.5 |
| 67.5° | 456.6 | 426.9 | 364.0 | 282.1 | 218.8 | 179.2 | 113.2 | 69.2 | 51.4 | 30.1 | 26.1 |
| 70° | 454.2 | 425.7 | 361.2 | 281.7 | 220.4 | 178.4 | 109.2 | 69.2 | 49.1 | 30.1 | 24.9 |
| 71° | *451.1* | *423.4* | *359.3* | *281.3* | *220.8* | *177.7* | *107.6* | *68.8* | *47.9* | *29.3* | *25.3* |
| 72.5° | 446.7 | 419.8 | 355.7 | 280.5 | 219.6 | 175.3 | 104.5 | 69.2 | 46.7 | 28.9 | 25.7 |
| 75° | 442.0 | 417.0 | 352.9 | 277.4 | 219.2 | 171.7 | 98.9 | 68.1 | 46.3 | 29.3 | 26.5 |
| 77.5° | 440.4 | 417.4 | 351.4 | 276.6 | 219.2 | 169.7 | 95.0 | 67.3 | 45.5 | 29.7 | 28.1 |
| 80° | 436.8 | 416.6 | 348.2 | 274.6 | 218.4 | 166.2 | 93.8 | 67.3 | 44.7 | 30.1 | 28.9 |
| 82.5° | 433.3 | 414.7 | 345.4 | 272.6 | 217.2 | 161.4 | 92.6 | 66.9 | 43.9 | 31.3 | 30.5 |
| 85° | 430.1 | 414.3 | 345.4 | 271.4 | 216.8 | 158.7 | 92.2 | 66.5 | 43.5 | 32.4 | 31.7 |
| 87.5° | 430.1 | 416.2 | 349.0 | 274.6 | 220.4 | 158.7 | 93.8 | 67.3 | 43.9 | 34.0 | 33.6 |
| 90° | 422.2 | 407.5 | 343.4 | 272.6 | 221.6 | 159.1 | 95.4 | 69.2 | 45.5 | 35.6 | 34.8 |
| 92.5° | 419.8 | 403.6 | 341.9 | 274.6 | 223.2 | 159.1 | 97.3 | 71.2 | 46.7 | 36.4 | 35.6 |
| 95° | 393.7 | 375.5 | 321.7 | 260.7 | 213.3 | 154.7 | 98.1 | 70.8 | 47.5 | 36.8 | 36.4 |
| 97.5° | 357.3 | 337.5 | 286.9 | 231.9 | 188.7 | 138.9 | 89.4 | 66.5 | 47.1 | 38.0 | 37.2 |
| 100° | 369.6 | 346.2 | 293.2 | 235.8 | 185.6 | 136.1 | 87.8 | 64.5 | 48.3 | 39.6 | 38.8 |
| 102.5° | 403.6 | 378.3 | 322.5 | 261.1 | 202.2 | 150.4 | 98.1 | 68.5 | 50.6 | 41.5 | 40.4 |
| 105° | 383.4 | 355.3 | 311.4 | 252.8 | 197.0 | 150.4 | 98.5 | 69.6 | 53.0 | 43.1 | 42.3 |
| 107.5° | 338.7 | 312.6 | 274.2 | 225.1 | 180.4 | 138.9 | 93.4 | 67.7 | 55.0 | 45.1 | 43.9 |

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

Scaled Data Report

REPORT NUMBER: P1045963
CATALOG NUMBER: FFX-CLB-40-722-U-PG-T5-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 313.0 | 284.9 | 249.7 | 205.4 | 167.8 | 129.0 | 89.8 | 66.5 | 56.2 | 47.5 | 45.9 |
| 112.5° | 285.7 | 261.5 | 227.5 | 188.7 | 156.3 | 119.1 | 87.4 | 66.1 | 57.0 | 49.9 | 48.3 |
| 115° | 270.2 | 245.3 | 216.0 | 178.4 | 148.8 | 115.9 | 86.7 | 68.1 | 59.7 | 53.0 | 51.4 |
| 117.5° | 256.8 | 236.2 | 210.1 | 170.5 | 143.6 | 114.7 | 88.2 | 70.4 | 61.7 | 55.8 | 53.8 |
| 120° | 242.9 | 224.0 | 200.2 | 164.2 | 139.3 | 110.8 | 88.6 | 71.6 | 63.3 | 58.2 | 57.0 |
| 122.5° | 234.6 | 213.3 | 189.9 | 158.7 | 134.1 | 108.0 | 88.2 | 73.2 | 63.7 | 59.4 | 59.4 |
| 125° | 219.2 | 202.2 | 178.8 | 151.5 | 126.6 | 106.4 | 88.2 | 72.4 | 64.9 | 60.9 | 60.1 |
| 127.5° | 202.2 | 191.1 | 167.8 | 143.6 | 121.5 | 102.5 | 85.9 | 72.4 | 64.5 | 60.9 | 60.9 |
| 130° | 186.4 | 176.5 | 157.5 | 132.9 | 116.7 | 96.9 | 82.3 | 68.8 | 62.1 | 59.7 | 59.7 |
| 132.5° | 168.6 | 162.2 | 144.4 | 122.7 | 107.2 | 90.2 | 77.6 | 63.7 | 58.2 | 56.2 | 56.2 |
| 135° | 152.3 | 146.4 | 129.8 | 111.6 | 97.7 | 83.9 | 72.0 | 60.1 | 53.4 | 51.0 | 51.0 |
| 137.5° | 137.3 | 131.8 | 117.1 | 101.7 | 89.0 | 77.6 | 66.5 | 56.6 | 49.9 | 47.1 | 47.5 |
| 140° | 121.9 | 115.1 | 105.2 | 92.2 | 80.7 | 71.6 | 60.9 | 53.0 | 46.7 | 44.3 | 43.9 |
| 142.5° | 108.0 | 102.9 | 93.8 | 82.7 | 72.8 | 65.7 | 56.2 | 49.5 | 44.3 | 41.9 | 41.5 |
| 145° | 95.4 | 91.0 | 83.1 | 74.0 | 66.1 | 59.4 | 51.8 | 46.3 | 41.9 | 40.0 | 39.6 |
| 147.5° | 81.9 | 79.1 | 73.2 | 66.1 | 59.4 | 53.4 | 48.3 | 43.1 | 40.4 | 38.0 | 37.6 |
| 150° | 72.0 | 70.0 | 65.3 | 59.4 | 54.2 | 49.5 | 45.5 | 40.8 | 38.4 | 36.8 | 36.4 |
| 152.5° | 64.1 | 62.1 | 58.2 | 53.8 | 49.5 | 45.9 | 42.3 | 39.2 | 36.8 | 35.6 | 35.2 |
| 155° | 57.4 | 55.8 | 52.6 | 49.1 | 45.5 | 42.3 | 39.6 | 37.2 | 35.6 | 34.4 | 34.4 |
| 157.5° | 52.2 | 50.6 | 48.3 | 45.1 | 42.3 | 39.6 | 37.6 | 35.6 | 34.8 | 33.6 | 33.6 |
| 160° | 47.9 | 46.7 | 44.7 | 41.9 | 39.6 | 37.6 | 36.0 | 34.4 | 34.0 | 33.2 | 33.2 |
| 162.5° | 44.3 | 43.5 | 41.5 | 39.6 | 38.0 | 36.4 | 35.2 | 34.0 | 33.2 | 32.8 | 32.8 |
| 165° | 41.9 | 41.2 | 40.0 | 38.4 | 36.8 | 35.6 | 34.8 | 33.6 | 33.2 | 33.2 | 32.8 |
| 167.5° | 40.8 | 40.0 | 38.8 | 37.2 | 36.0 | 35.6 | 34.8 | 34.0 | 33.6 | 33.6 | 33.2 |
| 170° | 39.6 | 39.2 | 38.4 | 37.2 | 36.0 | 35.6 | 35.2 | 34.4 | 34.4 | 34.0 | 34.0 |
| 172.5° | 39.2 | 38.8 | 38.0 | 37.2 | 36.4 | 36.0 | 35.6 | 35.2 | 35.2 | 35.2 | 34.8 |
| 175° | 38.8 | 38.8 | 38.0 | 37.2 | 36.8 | 36.8 | 36.4 | 36.0 | 36.0 | 36.0 | 36.0 |
| 177.5° | 38.8 | 38.4 | 38.4 | 38.0 | 37.6 | 37.6 | 37.6 | 37.2 | 37.2 | 37.2 | 37.2 |
| 180° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

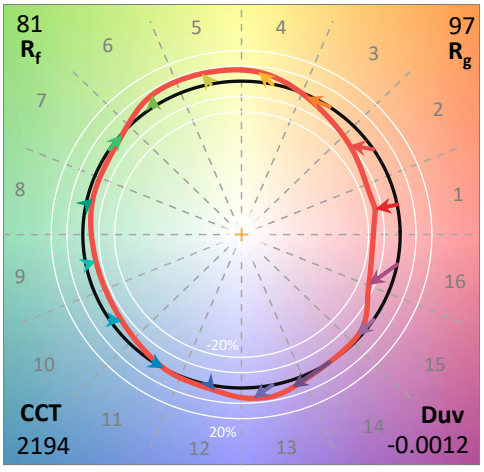
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-7 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS** |
| Description: | FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2194 | CRI (Ra): | 76.9 | | |
| CIE u': | 0.2907 | R1: | 75.7 | R9: | -13.4 |
| CIE v': | 0.5343 | R2: | 91.6 | R10: | 84.3 |
| Duv: | -0.0012 | R3: | 88.2 | R11: | 74.6 |
| CIE x: | 0.5035 | R4: | 73.5 | R12: | 85.6 |
| CIE y: | 0.4113 | R5: | 77.0 | R13: | 79.4 |
| CIE z: | 0.0852 | R6: | 93.6 | R14: | 93.9 |
| Peak Wavelength (nm): | 608 | R7: | 73.2 | R15: | 65.4 |
| Dominant Wavelength (nm): | 587 | R8: | 42.7 | | |
| Purity: | 74.59755 | | | | |

| | |
|---|---|
| Rf: | 81 |
| Rg: | 96.6 |




## Test Conditions

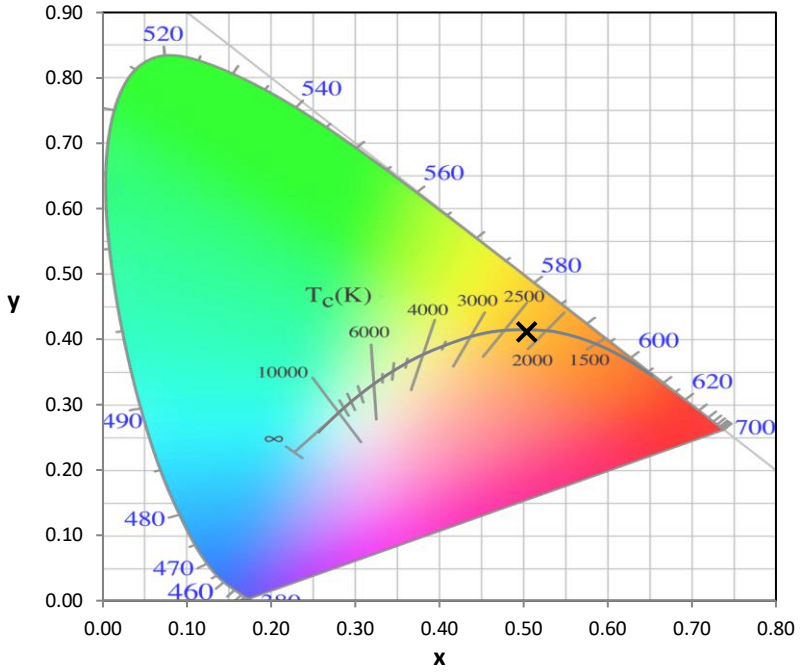
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-7

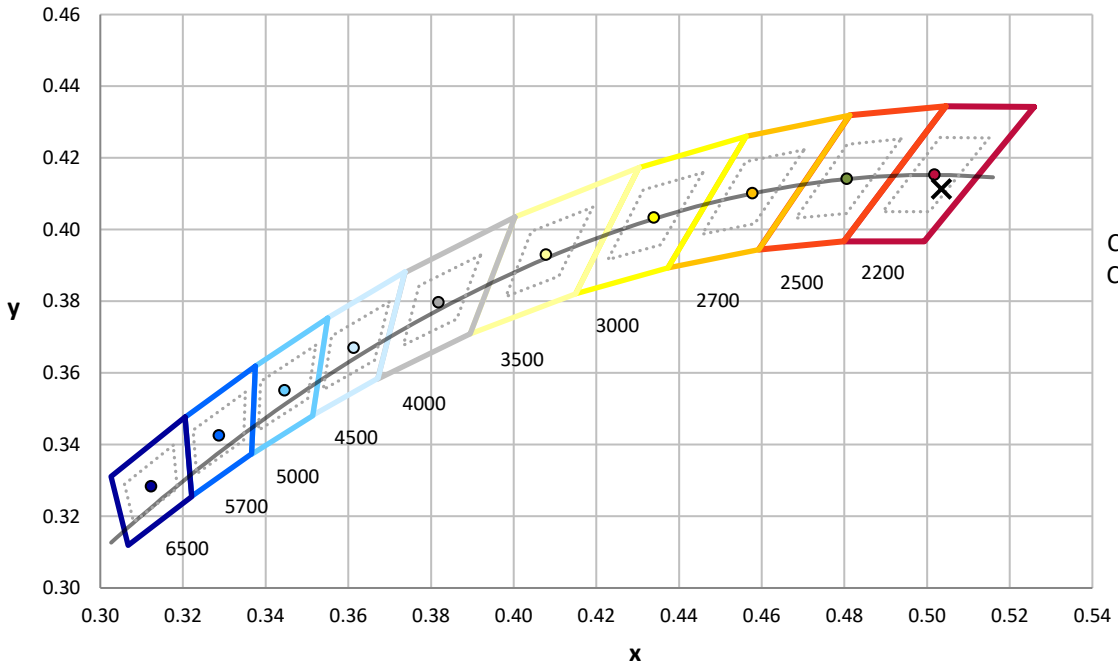
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-7

## CIE 1931 Chromaticity Diagram




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

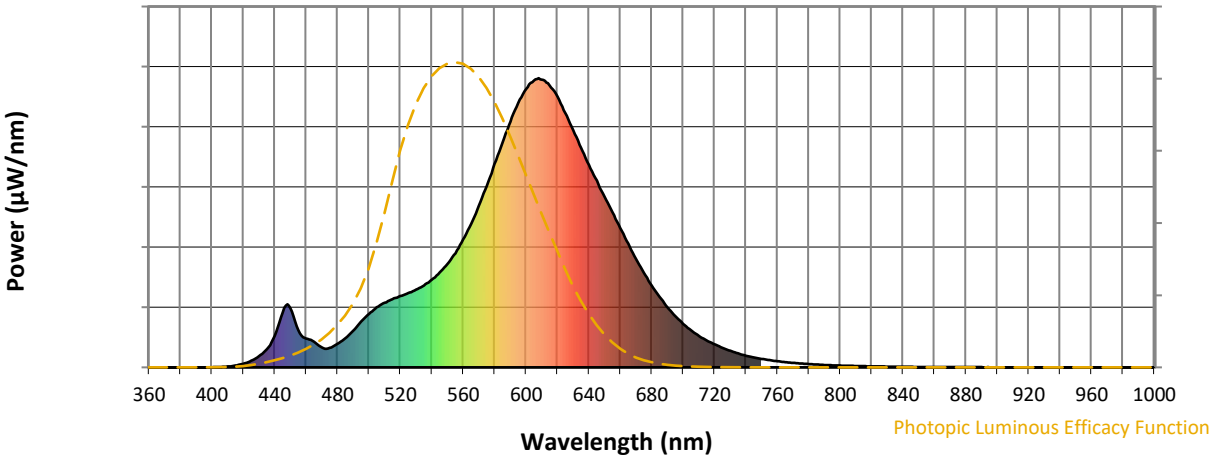



CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

## Photopic Flux vs. Wavelength

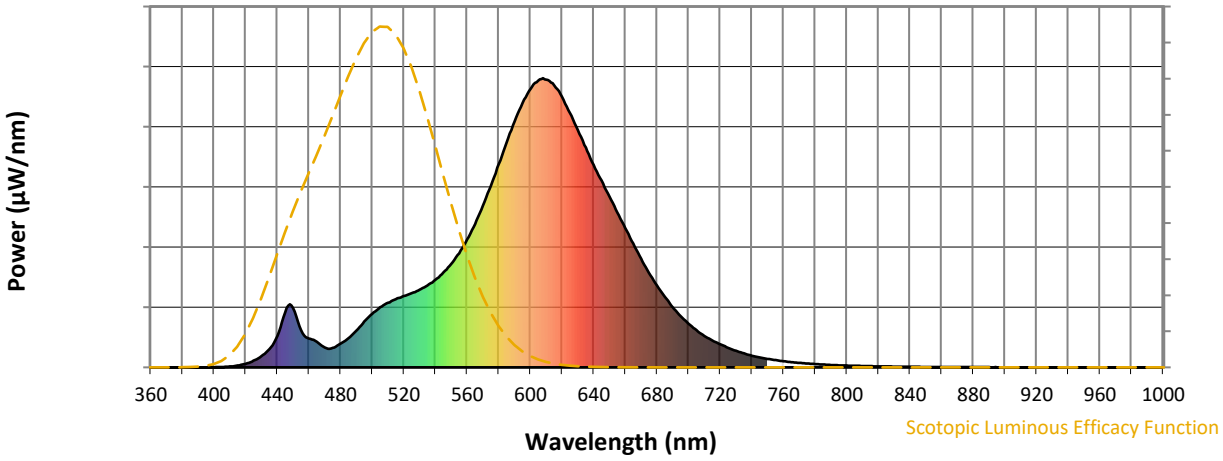



## Photopic Lumens: NR

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Scotopic Flux vs. Wavelength

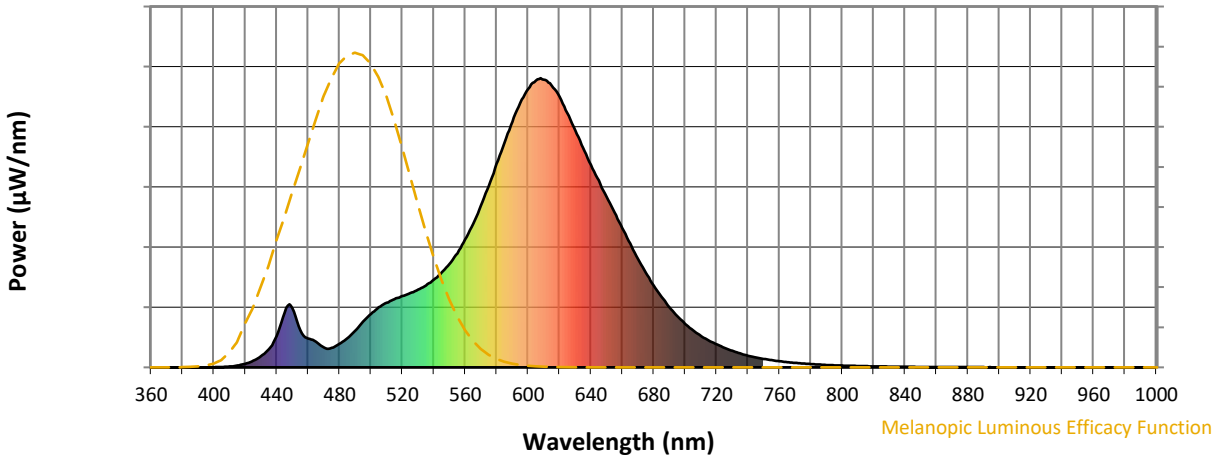



**Scotopic Lumens: NR** **S/P: 0.96**

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-7

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.7**

| 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 | 127 | NR | 620 | 937 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 158 | NR | 625 | 880 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 185 | NR | 630 | 820 | NR | 760 | 21 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 208 | NR | 635 | 760 | NR | 765 | 18 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 224 | NR | 640 | 700 | NR | 770 | 15 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 236 | NR | 645 | 646 | NR | 775 | 13 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 247 | NR | 650 | 590 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 257 | NR | 655 | 535 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 481 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 1 | NR | 535 | 284 | NR | 665 | 428 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 3 | NR | 540 | 303 | NR | 670 | 376 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 6 | NR | 545 | 328 | NR | 675 | 327 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 12 | NR | 550 | 358 | NR | 680 | 283 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 23 | NR | 555 | 394 | NR | 685 | 244 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 39 | NR | 560 | 442 | NR | 690 | 209 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 496 | NR | 695 | 178 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 559 | NR | 700 | 151 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 190 | NR | 575 | 628 | NR | 705 | 128 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 205 | NR | 580 | 704 | NR | 710 | 108 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 128 | NR | 585 | 777 | NR | 715 | 93 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 100 | NR | 590 | 850 | NR | 720 | 80 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 89 | NR | 595 | 914 | NR | 725 | 67 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 68 | NR | 600 | 963 | NR | 730 | 57 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 67 | NR | 605 | 992 | NR | 735 | 48 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 82 | NR | 610 | 995 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 101 | NR | 615 | 975 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

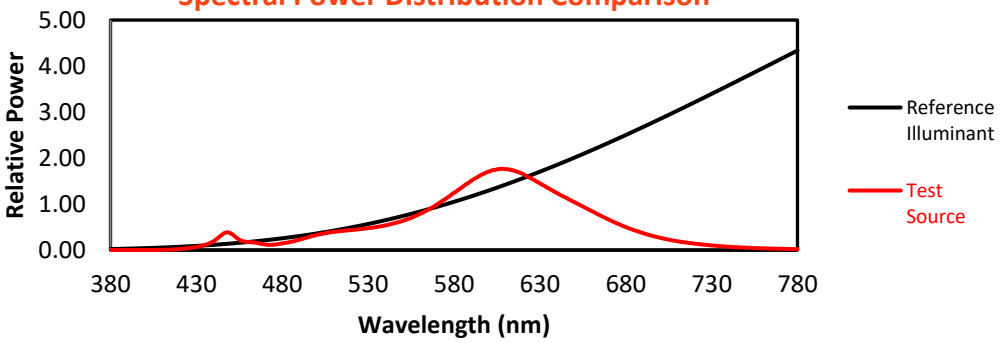
REPORT NUMBER: SP1-2501-332-7

# TM-30-18

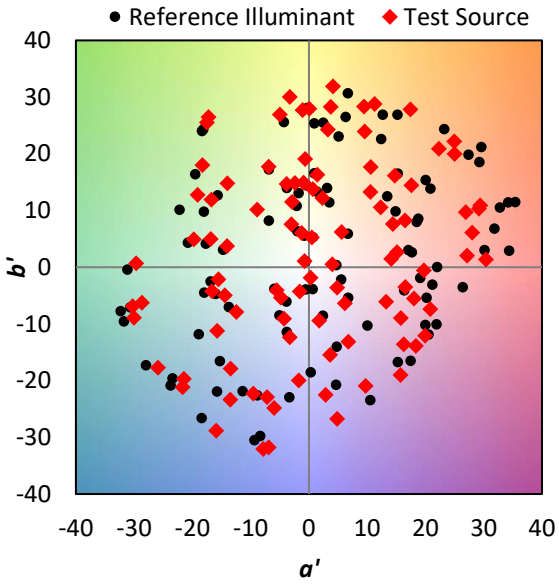
## Summary

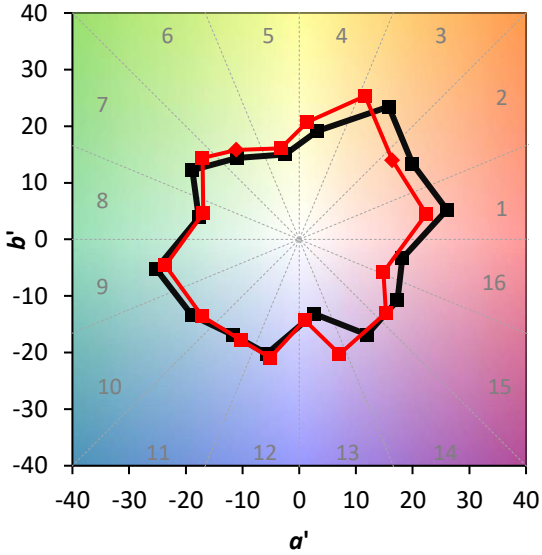
$R_f$ = 81
$R_g$ = 96.6
CIE $R_a$ = 76.9
$R_9$ = -13.4

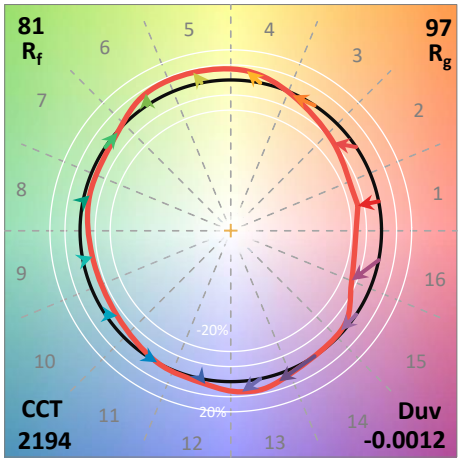
## Spectral Power Distribution Comparison

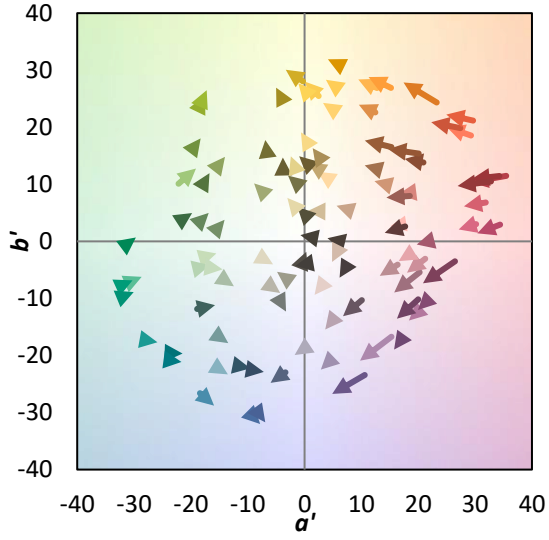



## Color Vector Graphics



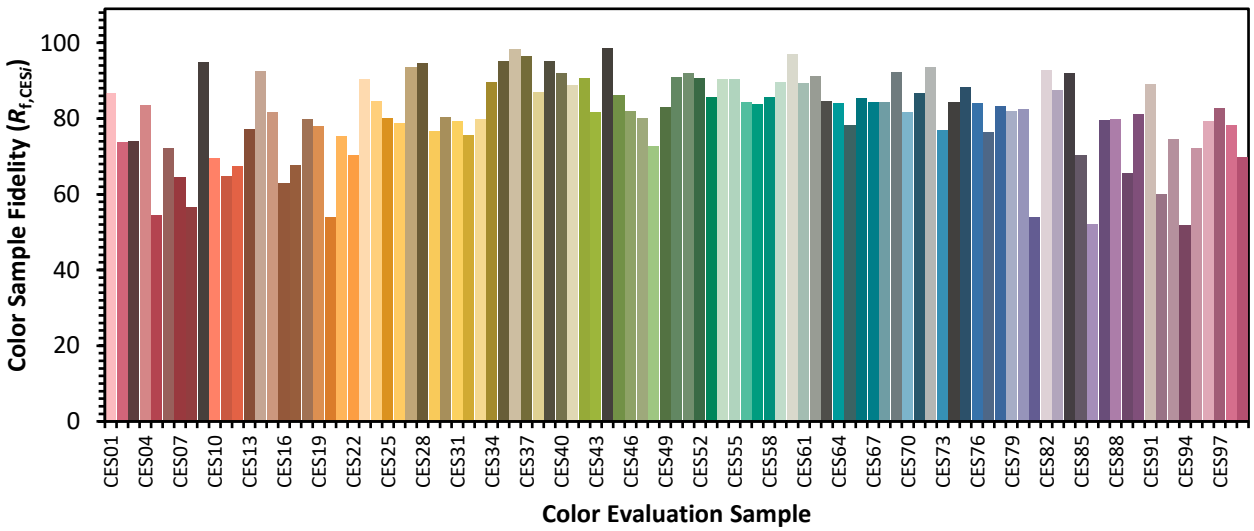



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**Individual Sample Fidelity Index ($R_{f,i}$)**

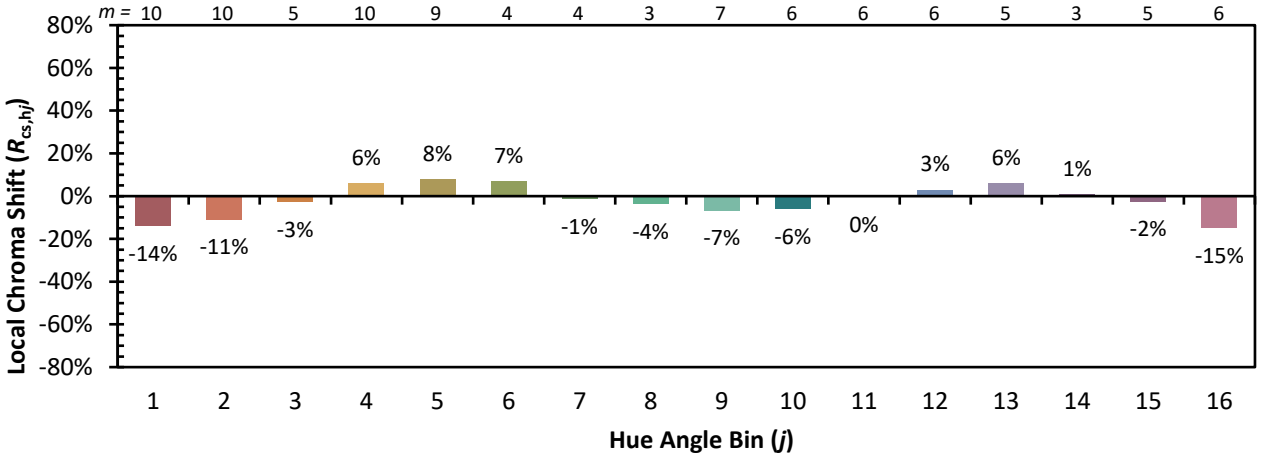
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 79 | CES51 = 92 | CES76 = 84 |
| CES02 = 65 | CES27 = 94 | CES52 = 91 | CES77 = 76 |
| CES03 = 32 | CES28 = 95 | CES53 = 86 | CES78 = 83 |
| CES04 = 72 | CES29 = 77 | CES54 = 90 | CES79 = 82 |
| CES05 = 52 | CES30 = 80 | CES55 = 90 | CES80 = 82 |
| CES06 = 52 | CES31 = 79 | CES56 = 84 | CES81 = 54 |
| CES07 = 44 | CES32 = 76 | CES57 = 84 | CES82 = 93 |
| CES08 = 43 | CES33 = 80 | CES58 = 86 | CES83 = 88 |
| CES09 = 29 | CES34 = 90 | CES59 = 90 | CES84 = 92 |
| CES10 = 79 | CES35 = 95 | CES60 = 97 | CES85 = 70 |
| CES11 = 62 | CES36 = 98 | CES61 = 89 | CES86 = 52 |
| CES12 = 68 | CES37 = 96 | CES62 = 91 | CES87 = 80 |
| CES13 = 45 | CES38 = 87 | CES63 = 85 | CES88 = 80 |
| CES14 = 75 | CES39 = 95 | CES64 = 84 | CES89 = 66 |
| CES15 = 73 | CES40 = 92 | CES65 = 78 | CES90 = 81 |
| CES16 = 49 | CES41 = 89 | CES66 = 85 | CES91 = 89 |
| CES17 = 51 | CES42 = 91 | CES67 = 84 | CES92 = 60 |
| CES18 = 57 | CES43 = 82 | CES68 = 84 | CES93 = 74 |
| CES19 = 74 | CES44 = 99 | CES69 = 92 | CES94 = 52 |
| CES20 = 69 | CES45 = 86 | CES70 = 82 | CES95 = 72 |
| CES21 = 88 | CES46 = 82 | CES71 = 87 | CES96 = 79 |
| CES22 = 81 | CES47 = 80 | CES72 = 94 | CES97 = 83 |
| CES23 = 92 | CES48 = 73 | CES73 = 77 | CES98 = 78 |
| CES24 = 92 | CES49 = 83 | CES74 = 84 | CES99 = 70 |
| CES25 = 73 | CES50 = 91 | CES75 = 88 | |

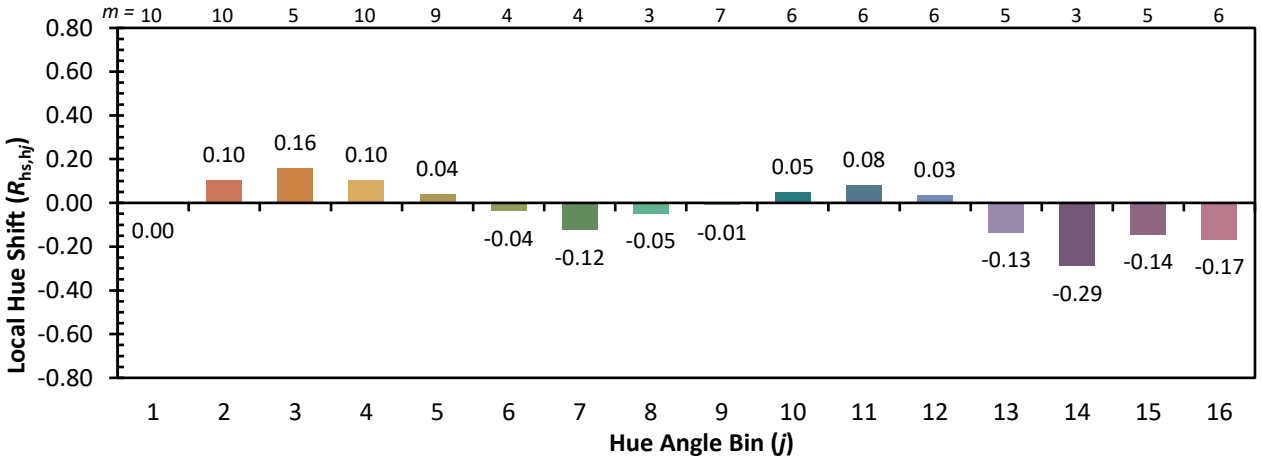


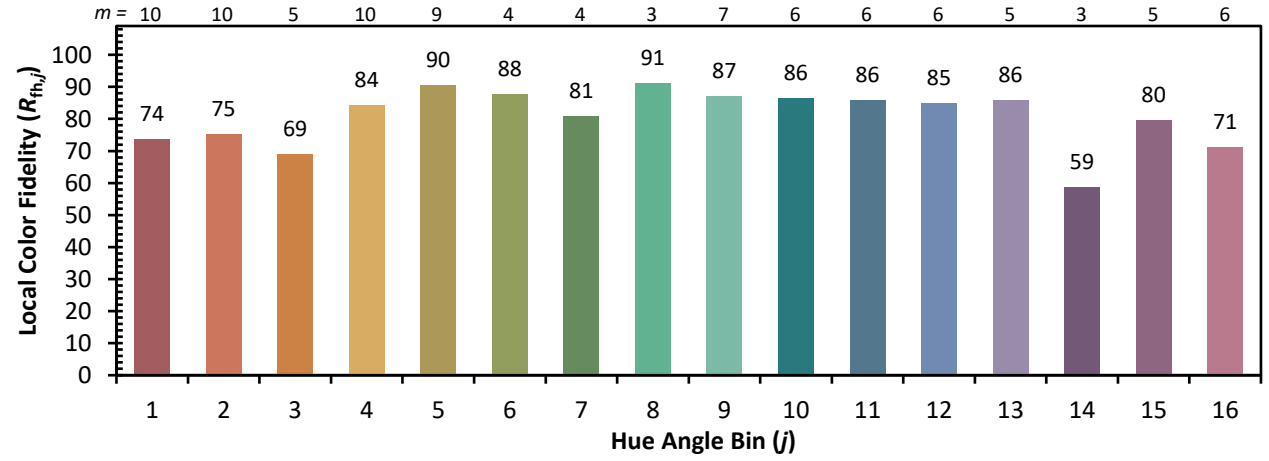
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## Color Rendition by Hue-Angle Bin



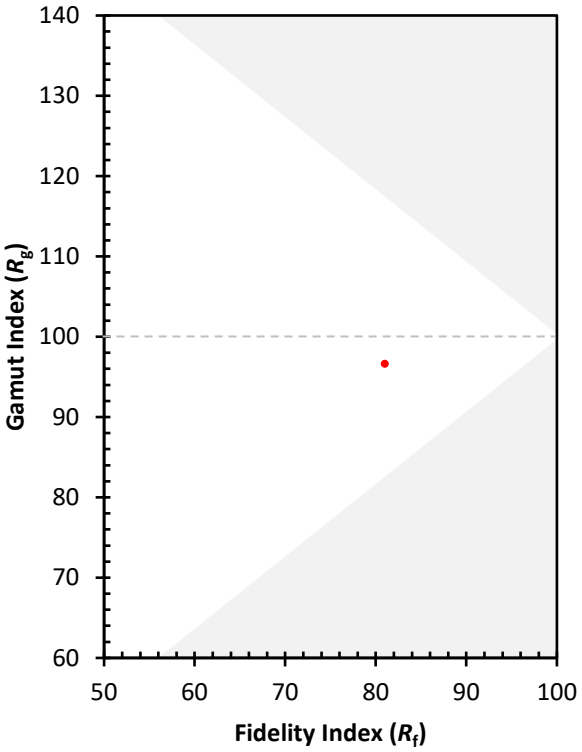



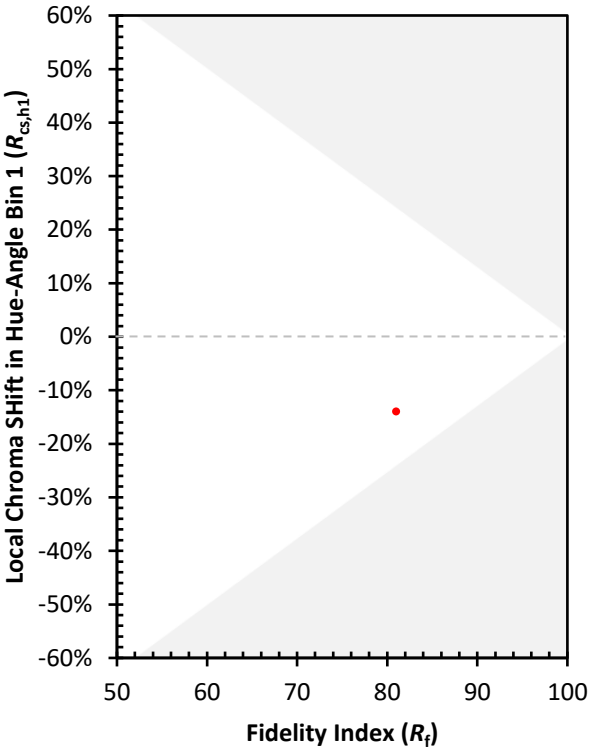



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### Measure Comparisons




(END OF REPORT)