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: P1223885

Luminaire Tested: **FFX-CLB-30-722-U-VM9-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: | P1223885 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 01/27/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-30-722-U-VM9-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION |
| Light Source: | (6) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3944.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 128.9 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): | 30.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 10.8% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

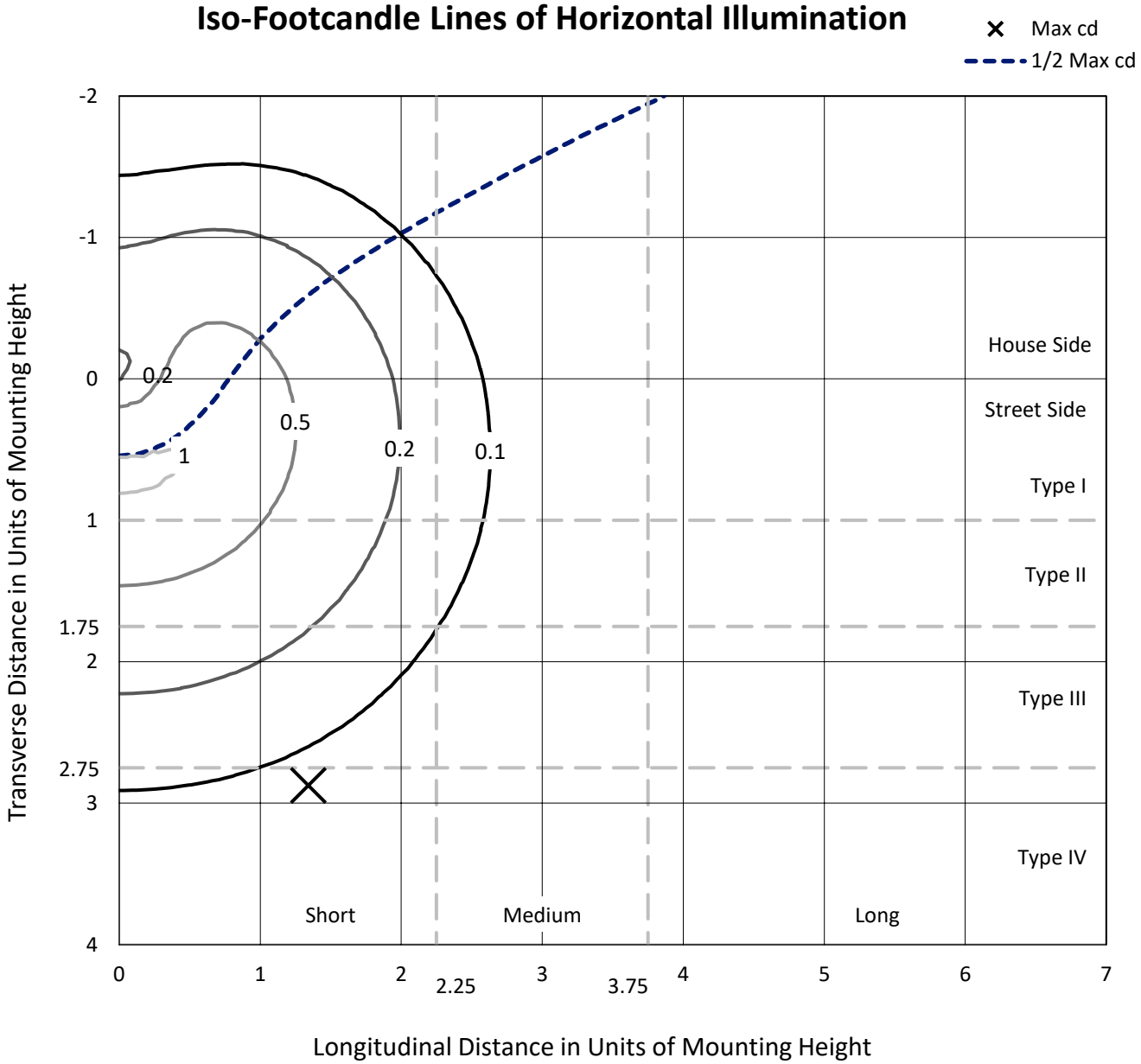


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REPORT NUMBER: P1223885
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## Iso-Footcandle Lines of Horizontal Illumination



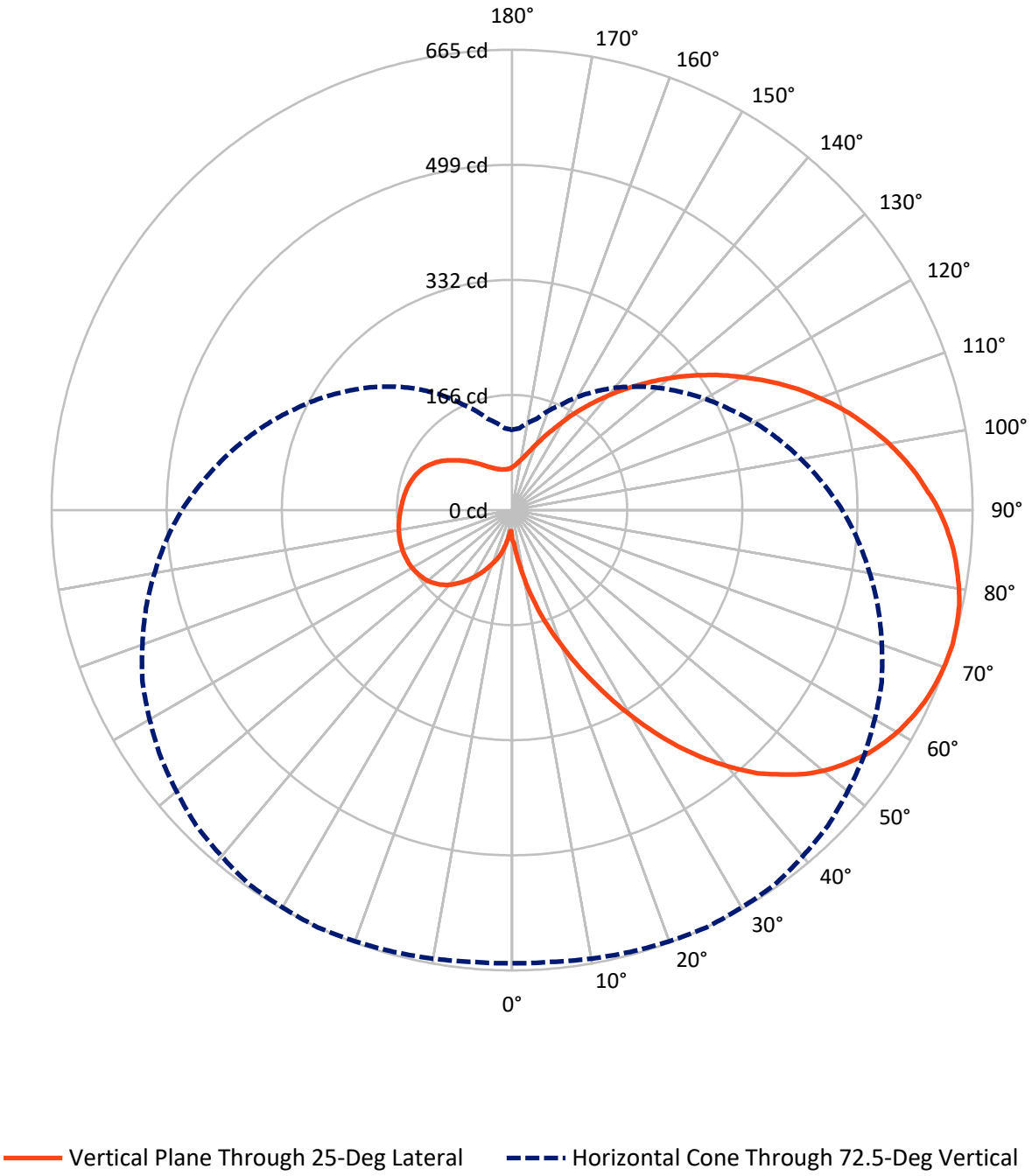

Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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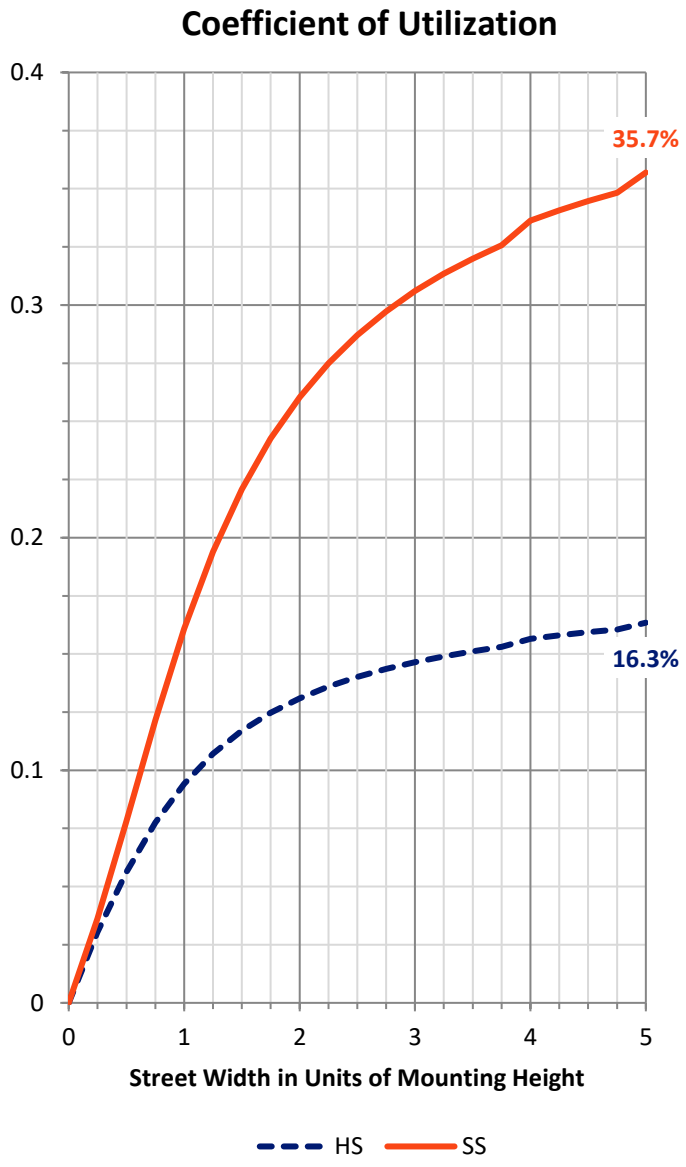
REPORT NUMBER: P1223885
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 710.7 | 543.9 | 1254.6 |
| | % Fixture | 18.0 | 13.8 | 31.8 |
| **Street Side** | Lumens | 1607.4 | 1082.7 | 2690.1 |
| | % Fixture | 40.7 | 27.4 | 68.2 |
| **Total** | Lumens | 2318.1 | 1626.5 | 3944.7 |
| | % Fixture | 58.8 | 41.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 5.6 | 0.1 |
| 10°-20° | 33.5 | 0.8 |
| 20°-30° | 91.2 | 2.3 |
| 30°-40° | 180.8 | 4.6 |
| 40°-50° | 282.2 | 7.2 |
| 50°-60° | 369.9 | 9.4 |
| 60°-70° | 431.7 | 10.9 |
| 70°-80° | 463.2 | 11.7 |
| 80°-90° | 460.1 | 11.7 |
| 90°-100° | 426.9 | 10.8 |
| 100°-110° | 371.7 | 9.4 |
| 110°-120° | 300.8 | 7.6 |
| 120°-130° | 221.4 | 5.6 |
| 130°-140° | 146.4 | 3.7 |
| 140°-150° | 86.6 | 2.2 |
| 150°-160° | 45.5 | 1.2 |
| 160°-170° | 21.1 | 0.5 |
| 170°-180° | 6.1 | 0.2 |
| 0°-90° | 2318.1 | 58.8 |
| 0°-180° | 3944.7 | 100.0 |



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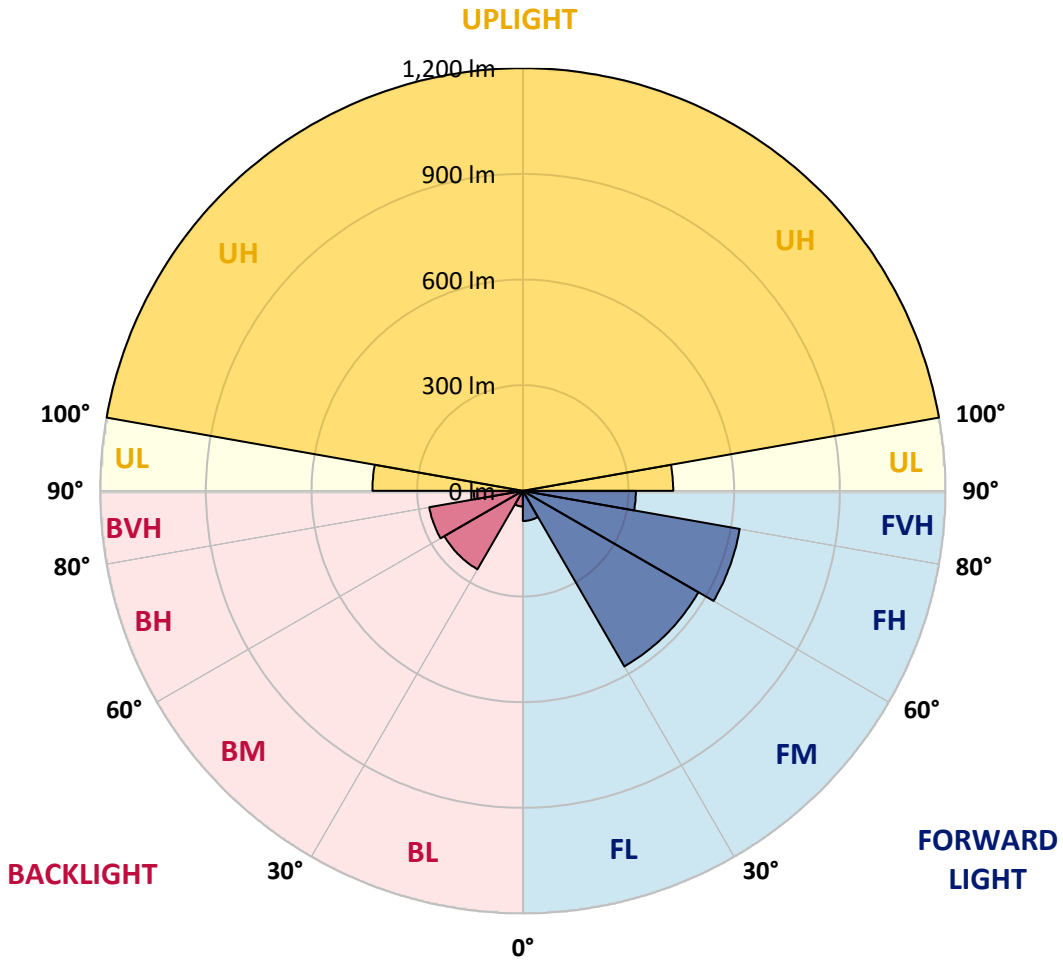
Scaled Data Report

REPORT NUMBER: P1223885
CATALOG NUMBER: FFX-CLB-30-722-U-VM9-T4

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 85.7 | 2.2 | | | |
| FM | (30°-60°) | 575.7 | 14.6 | | | |
| FH | (60°-80°) | 625.3 | 15.9 | | | G0/660 |
| FVH | (80°-90°) | 320.8 | 8.1 | | | G3/500 |
| BL | (0°-30°) | 44.6 | 1.1 | B0/110 | | |
| BM | (30°-60°) | 257.2 | 6.5 | B1/1000 | | |
| BH | (60°-80°) | 269.6 | 6.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 139.3 | 3.5 | | | G2/225 |
| UL | (90°-100°) | 426.9 | 10.8 | | U3/500 | |
| UH | (100°-180°) | 1199.7 | 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° | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 2.5° | 46.0 | 46.0 | 46.8 | 47.1 | 47.4 | 47.4 | 47.6 | 47.4 | 46.3 | 45.0 | 44.2 |
| 5° | 62.8 | 62.3 | 62.0 | 62.3 | 62.3 | 61.2 | 59.6 | 56.7 | 54.6 | 51.1 | 49.8 |
| 7.5° | 84.1 | 83.6 | 82.8 | 82.0 | 82.0 | 79.3 | 76.7 | 74.3 | 70.5 | 65.7 | 64.1 |
| 10° | 108.9 | 107.8 | 106.7 | 105.1 | 103.3 | 100.9 | 97.4 | 93.4 | 88.4 | 83.3 | 80.1 |
| 12.5° | 133.1 | 132.8 | 132.3 | 129.9 | 126.4 | 124.3 | 120.6 | 115.0 | 108.6 | 101.7 | 99.0 |
| 15° | 161.0 | 159.7 | 158.9 | 157.0 | 154.9 | 150.6 | 144.5 | 139.2 | 131.7 | 122.2 | 119.0 |
| 17.5° | 186.8 | 186.3 | 184.7 | 184.2 | 180.7 | 176.2 | 169.3 | 161.3 | 152.2 | 143.5 | 138.7 |
| 20° | 215.0 | 216.4 | 214.5 | 212.9 | 206.8 | 202.3 | 195.9 | 188.2 | 177.3 | 164.7 | 159.7 |
| 22.5° | 246.5 | 247.8 | 244.9 | 244.9 | 239.8 | 232.3 | 223.3 | 214.3 | 200.7 | 187.6 | 181.2 |
| 25° | 282.9 | 283.4 | 278.9 | 277.1 | 273.3 | 265.9 | 255.0 | 244.3 | 228.6 | 212.1 | 204.7 |
| 27.5° | 317.5 | 318.6 | 315.9 | 313.5 | 307.4 | 300.2 | 288.2 | 275.7 | 257.9 | 238.2 | 230.0 |
| 30° | 356.6 | 354.5 | 353.4 | 349.2 | 342.8 | 335.3 | 322.0 | 308.2 | 287.7 | 264.6 | 254.4 |
| 32.5° | 391.2 | 389.6 | 390.4 | 387.0 | 377.7 | 369.4 | 356.9 | 340.1 | 316.2 | 292.0 | 280.5 |
| 35° | 426.9 | 427.7 | 426.6 | 422.9 | 417.3 | 406.4 | 389.4 | 370.5 | 346.5 | 318.0 | 305.8 |
| 37.5° | 463.4 | 461.5 | 460.2 | 457.0 | 451.4 | 439.1 | 422.4 | 401.1 | 373.4 | 343.3 | 329.8 |
| 40° | 494.8 | 496.1 | 494.5 | 489.2 | 484.1 | 470.6 | 452.2 | 428.0 | 399.5 | 367.3 | 351.6 |
| 42.5° | 524.6 | 524.0 | 522.7 | 519.8 | 512.9 | 498.5 | 480.4 | 455.6 | 423.4 | 387.8 | 371.3 |
| 45° | 548.5 | 549.1 | 549.1 | 544.8 | 538.4 | 525.4 | 504.6 | 479.3 | 445.0 | 407.5 | 390.2 |
| 47.5° | 571.4 | 572.2 | 571.7 | 569.8 | 562.9 | 547.5 | 526.4 | 500.4 | 463.9 | 425.3 | 405.9 |
| 50° | 591.7 | 591.7 | 591.4 | 589.8 | 583.1 | 568.2 | 546.7 | 518.7 | 480.9 | 440.2 | 421.0 |
| 52.5° | 608.4 | 608.2 | 608.4 | 606.6 | 599.6 | 586.1 | 563.7 | 533.9 | 496.1 | 452.7 | 434.1 |
| 55° | 621.7 | 620.9 | 622.8 | 622.0 | 615.9 | 600.7 | 577.0 | 548.0 | 508.9 | 464.7 | 445.0 |
| 57.5° | 632.4 | 632.1 | 634.5 | 633.7 | 627.6 | 612.4 | 589.0 | 559.4 | 519.5 | 474.5 | 453.0 |
| 60° | 641.2 | 640.6 | 643.8 | 643.8 | 637.7 | 622.5 | 599.4 | 568.2 | 528.0 | 482.3 | 460.4 |
| 62.5° | 647.3 | 647.5 | 650.5 | 651.5 | 646.2 | 630.8 | 606.6 | 575.9 | 535.0 | 488.4 | 466.3 |
| 65° | 651.5 | 652.1 | 655.5 | 657.7 | 652.3 | 637.2 | 612.1 | 581.5 | 540.5 | 493.4 | 470.8 |
| 67.5° | 654.2 | 654.5 | 659.3 | 661.4 | 657.1 | 641.2 | 616.9 | 585.5 | 544.3 | 496.6 | 474.3 |
| 70° | 655.3 | 655.5 | 660.8 | 664.0 | 659.8 | 643.5 | 619.1 | 587.7 | 546.7 | 498.8 | 476.1 |
| 72.5° | 654.5 | 655.0 | 660.6 | 664.8 | 660.6 | 644.6 | 619.9 | 588.7 | 547.2 | 501.2 | 476.7 |
| 75° | 651.8 | 652.3 | 658.7 | 663.0 | 659.8 | 643.3 | 618.5 | 587.7 | 546.4 | 499.0 | 475.9 |
| 77.5° | 647.3 | 648.1 | 654.7 | 660.1 | 656.3 | 640.6 | 615.9 | 584.7 | 543.5 | 496.4 | 472.9 |
| 80° | 640.6 | 640.9 | 648.3 | 653.7 | 651.0 | 635.3 | 610.5 | 579.7 | 538.7 | 491.8 | 469.0 |
| 82.5° | 632.1 | 633.2 | 640.4 | 646.2 | 643.8 | 627.6 | 603.6 | 573.3 | 532.6 | 486.3 | 463.1 |
| 85° | 623.1 | 624.1 | 630.8 | 637.2 | 634.2 | 619.1 | 595.1 | 565.0 | 524.3 | 478.5 | 456.4 |
| 87.5° | 612.1 | 612.9 | 619.3 | 626.0 | 623.3 | 608.2 | 585.0 | 555.5 | 515.8 | 471.4 | 448.7 |
| 90° | 600.2 | 601.0 | 607.1 | 613.5 | 610.0 | 595.6 | 573.0 | 544.0 | 505.4 | 461.8 | 439.9 |
| 92.5° | 587.4 | 587.7 | 594.6 | 598.0 | 596.2 | 583.4 | 561.0 | 533.1 | 494.5 | 451.9 | 431.4 |
| 95° | 573.0 | 573.0 | 579.7 | 583.4 | 580.2 | 568.2 | 547.2 | 519.3 | 481.7 | 441.8 | 420.8 |
| 97.5° | 557.3 | 557.8 | 562.9 | 566.6 | 565.6 | 553.1 | 533.1 | 506.5 | 470.6 | 430.9 | 410.9 |
| 100° | 541.1 | 541.1 | 545.6 | 548.8 | 546.4 | 536.3 | 517.4 | 492.9 | 456.4 | 419.2 | 399.8 |
| 102.5° | 524.0 | 523.8 | 527.5 | 529.9 | 528.3 | 519.0 | 501.4 | 477.2 | 443.1 | 406.9 | 388.6 |
| 105° | 505.2 | 504.4 | 508.1 | 510.7 | 509.1 | 500.9 | 486.0 | 462.6 | 429.6 | 395.0 | 377.4 |
| 107.5° | 484.9 | 486.3 | 488.4 | 490.0 | 488.7 | 481.5 | 467.4 | 446.6 | 415.5 | 382.5 | 365.4 |
| 110° | 465.8 | 466.6 | 466.8 | 468.7 | 468.4 | 462.6 | 450.6 | 429.8 | 400.3 | 369.1 | 352.6 |

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REPORT NUMBER: P1223885
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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 446.3 | 446.1 | 446.3 | *447.7* | 447.7 | 441.8 | 430.4 | 412.3 | 385.4 | 355.0 | 339.9 |
| 115° | 425.3 | 424.2 | 424.5 | *424.8* | 425.8 | 421.3 | 411.5 | 394.4 | 368.1 | 341.2 | 326.3 |
| 117.5° | 403.5 | 403.2 | 402.7 | *401.9* | 401.9 | 400.0 | 391.5 | 376.3 | 351.3 | 324.7 | 312.2 |
| 120° | 382.7 | 381.7 | 380.3 | *379.5* | 380.1 | 377.9 | 371.0 | 355.8 | 333.8 | 309.8 | 297.3 |
| 122.5° | 358.8 | 359.6 | 358.8 | *357.7* | 358.0 | 355.8 | 350.0 | 337.2 | 315.1 | 292.2 | 281.1 |
| 125° | 338.3 | 338.0 | 336.9 | *335.3* | 335.3 | 334.5 | 328.2 | 317.0 | 297.3 | 275.5 | 265.1 |
| 127.5° | 315.4 | 315.7 | 314.6 | *313.8* | 314.3 | 312.7 | 308.5 | 295.7 | 278.4 | 259.0 | 248.8 |
| 130° | 293.8 | 293.6 | 293.3 | *291.7* | 293.0 | 290.1 | 286.4 | 275.7 | 259.2 | 242.7 | 233.4 |
| 132.5° | 273.6 | 272.0 | 270.9 | *270.7* | 270.4 | 270.1 | 265.6 | 256.3 | 242.5 | 226.0 | 216.9 |
| 135° | 253.4 | 252.0 | 250.7 | *250.2* | 250.7 | 249.4 | 245.4 | 237.7 | 224.9 | 208.9 | 202.0 |
| 137.5° | 232.6 | 232.1 | 232.1 | *230.8* | 230.8 | 229.7 | 226.2 | 219.8 | 207.9 | 194.0 | 187.1 |
| 140° | 214.0 | 212.9 | 212.4 | *211.6* | 212.4 | 211.3 | 207.6 | 201.5 | 191.4 | 179.4 | 172.7 |
| 142.5° | 194.8 | 193.8 | 194.6 | *193.8* | 193.0 | 192.4 | 189.2 | 184.4 | 175.7 | 164.7 | 159.2 |
| 145° | 177.0 | 177.0 | 176.5 | *176.7* | 176.2 | 175.7 | 172.5 | 167.9 | 160.5 | 150.4 | 146.4 |
| 147.5° | 160.2 | 160.8 | 160.2 | *160.8* | 160.8 | 158.6 | 156.5 | 152.8 | 145.8 | 137.9 | 133.6 |
| 150° | 144.5 | 145.3 | 144.8 | *144.5* | 144.8 | 143.7 | 140.8 | 138.7 | 132.5 | 125.6 | 121.4 |
| 152.5° | 131.2 | 131.7 | 131.7 | *131.2* | 130.9 | 130.4 | 127.5 | 124.6 | 119.8 | 114.4 | 111.5 |
| 155° | 118.7 | 118.7 | 119.0 | *119.2* | 118.4 | 116.8 | 115.8 | 113.4 | 109.1 | 104.3 | 101.4 |
| 157.5° | 108.3 | 108.1 | 108.3 | *108.1* | 107.8 | 106.2 | 104.6 | 102.7 | 99.3 | 95.0 | 93.4 |
| 160° | 98.5 | 98.5 | 98.7 | *98.5* | 97.4 | 96.6 | 95.3 | 93.7 | 90.8 | 87.8 | 85.7 |
| 162.5° | 90.5 | 90.5 | 90.5 | *90.2* | 89.2 | 88.9 | 87.3 | 85.7 | 83.3 | 80.9 | 79.3 |
| 165° | 83.6 | 83.6 | 83.3 | *83.3* | 82.8 | 82.0 | 80.6 | 79.3 | 77.2 | 75.3 | 74.3 |
| 167.5° | 78.0 | 77.7 | 77.4 | *77.2* | 76.9 | 76.1 | 74.8 | 74.0 | 72.4 | 70.8 | 70.0 |
| 170° | 73.2 | 73.2 | 72.9 | *72.9* | 72.4 | 71.6 | 70.8 | 69.7 | 68.7 | 67.1 | 66.5 |
| 172.5° | 68.9 | 68.9 | 68.9 | *68.9* | 68.1 | 67.9 | 67.1 | 66.3 | 65.5 | 64.4 | 63.9 |
| 175° | 65.7 | 65.7 | 65.7 | *65.7* | 65.2 | 64.7 | 64.4 | 63.6 | 63.1 | 62.3 | 62.0 |
| 177.5° | 63.3 | 63.3 | 63.3 | *63.3* | 63.1 | 62.5 | 62.3 | 61.7 | 61.2 | 60.9 | 60.7 |
| 180° | 61.2 | 61.2 | 61.2 | *61.2* | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| 2.5° | 43.4 | 41.8 | 39.7 | 37.3 | 35.4 | 33.0 | 30.6 | 29.3 | 28.5 | 27.9 |
| 5° | 48.4 | 45.0 | 41.8 | 38.3 | 35.7 | 33.3 | 30.6 | 28.5 | 27.4 | 27.1 |
| 7.5° | 61.7 | 57.0 | 52.2 | 47.9 | 44.2 | 40.5 | 37.8 | 35.7 | 34.3 | 34.3 |
| 10° | 77.7 | 71.1 | 65.5 | 59.9 | 54.8 | 50.3 | 46.6 | 44.4 | 42.9 | 42.3 |
| 12.5° | 95.8 | 87.8 | 80.1 | 73.7 | 66.3 | 61.2 | 56.7 | 53.8 | 51.9 | 51.6 |
| 15° | 114.7 | 106.5 | 96.6 | 87.8 | 79.6 | 71.6 | 66.3 | 62.0 | 60.4 | 60.4 |
| 17.5° | 132.8 | 122.2 | 111.3 | 100.6 | 90.5 | 81.2 | 73.7 | 68.9 | 66.5 | 66.0 |
| 20° | 152.2 | 139.5 | 125.4 | 112.8 | 100.3 | 89.4 | 80.6 | 74.5 | 71.3 | 71.1 |
| 22.5° | 172.2 | 157.3 | 142.1 | 125.6 | 111.3 | 98.2 | 87.8 | 80.6 | 76.7 | 76.1 |
| 25° | 195.1 | 177.0 | 158.9 | 140.8 | 123.5 | 108.1 | 95.8 | 87.0 | 82.5 | 82.0 |
| 27.5° | 220.4 | 197.7 | 176.2 | 155.4 | 135.2 | 118.2 | 103.5 | 93.4 | 87.8 | 87.6 |
| 30° | 243.5 | 218.5 | 194.0 | 170.1 | 148.0 | 127.5 | 111.3 | 99.5 | 93.4 | 92.6 |
| 32.5° | 266.7 | 239.0 | 211.3 | 185.0 | 159.4 | 137.3 | 119.0 | 105.4 | 98.2 | 97.7 |
| 35° | 290.6 | 259.2 | 229.2 | 198.8 | 172.2 | 147.2 | 126.2 | 111.3 | 103.5 | 102.5 |
| 37.5° | 313.0 | 279.2 | 246.2 | 214.0 | 183.4 | 156.2 | 133.1 | 116.8 | 108.1 | 106.7 |
| 40° | 333.5 | 297.0 | 261.6 | 227.0 | 194.0 | 164.7 | 139.7 | 121.6 | 111.8 | 110.7 |
| 42.5° | 352.4 | 313.8 | 275.7 | 238.5 | 203.9 | 172.2 | 145.3 | 125.6 | 114.7 | 113.6 |
| 45° | 370.2 | 329.5 | 288.8 | 249.1 | 212.4 | 179.1 | 150.6 | 129.3 | 117.6 | 116.0 |
| 47.5° | 385.4 | 342.8 | 299.2 | 258.2 | 220.1 | 185.0 | 154.6 | 132.0 | 119.8 | 118.2 |
| 50° | 399.0 | 354.0 | 309.0 | 266.9 | 226.8 | 190.3 | 158.4 | 134.1 | 120.8 | 119.2 |
| 52.5° | 409.9 | 364.4 | 317.5 | 273.9 | 232.9 | 194.6 | 161.0 | 136.0 | 121.9 | 120.3 |
| 55° | 420.5 | 372.9 | 325.0 | 280.0 | 237.4 | 198.5 | 163.1 | 137.1 | 122.4 | 120.6 |
| 57.5° | 429.3 | 380.1 | 331.1 | 284.8 | 241.9 | 201.2 | 165.0 | 137.6 | 122.4 | 120.3 |
| 60° | 435.7 | 385.7 | 335.9 | 288.8 | 244.9 | 203.6 | 166.3 | 137.9 | 122.2 | 120.0 |
| 62.5° | 441.3 | 390.2 | 339.3 | 292.2 | 247.8 | 205.5 | 167.7 | 138.1 | 121.6 | 119.5 |
| 65° | 445.5 | 393.9 | 342.3 | 294.4 | 249.6 | 207.1 | 167.9 | 137.9 | 120.8 | 118.7 |
| 67.5° | 449.0 | 396.3 | 344.1 | 296.2 | 251.0 | 207.9 | 168.5 | 137.6 | 120.3 | 117.9 |
| 70° | 450.3 | 397.4 | 345.2 | 297.0 | 251.8 | 208.4 | 168.5 | 137.1 | 119.2 | 116.8 |
| 72.5° | *450.1* | *397.4* | *345.5* | *297.3* | *252.0* | *208.7* | *168.2* | *136.3* | *118.4* | *116.0* |
| 75° | 449.3 | 396.6 | 344.9 | 297.0 | 251.8 | 208.4 | 167.9 | 135.7 | 117.6 | 115.5 |
| 77.5° | 447.1 | 394.4 | 343.1 | 296.0 | 251.2 | 207.6 | 167.1 | 135.2 | 117.1 | 114.4 |
| 80° | 443.4 | 391.2 | 340.4 | 293.6 | 249.4 | 206.8 | 166.3 | 134.1 | 116.0 | 113.9 |
| 82.5° | 438.1 | 387.2 | 337.2 | 291.4 | 247.8 | 205.2 | 165.3 | 133.6 | 115.5 | 113.4 |
| 85° | 432.0 | 382.2 | 333.0 | 288.2 | 245.4 | 203.6 | 163.9 | 132.5 | 115.0 | 112.8 |
| 87.5° | 424.5 | 375.5 | 328.7 | 284.5 | 242.5 | 201.5 | 162.6 | 131.7 | 114.7 | 112.6 |
| 90° | 416.8 | 369.4 | 323.4 | 281.1 | 240.1 | 199.3 | 161.3 | 131.2 | 114.4 | 112.6 |
| 92.5° | 408.3 | 362.8 | 318.3 | 276.5 | 236.9 | 197.2 | 160.0 | 130.7 | 114.4 | 112.6 |
| 95° | 399.8 | 355.8 | 313.3 | 272.5 | 233.7 | 195.1 | 158.6 | 130.4 | 115.0 | 113.1 |
| 97.5° | 389.6 | 347.9 | 307.1 | 268.3 | 230.0 | 192.7 | 157.6 | 130.1 | 115.2 | 113.6 |
| 100° | 380.1 | 339.9 | 300.7 | 263.5 | 226.5 | 190.0 | 156.0 | 129.9 | 115.8 | 113.9 |
| 102.5° | 369.7 | 332.2 | 294.4 | 258.4 | 222.8 | 187.1 | 154.6 | 129.6 | 116.3 | 114.7 |
| 105° | 359.3 | 322.8 | 287.4 | 252.6 | 218.2 | 184.2 | 153.0 | 129.3 | 116.6 | 115.0 |
| 107.5° | 347.9 | 314.1 | 279.7 | 247.0 | 213.7 | 181.0 | 150.9 | 128.8 | 116.8 | 115.2 |
| 110° | 336.1 | 303.7 | 271.7 | 240.6 | 208.4 | 177.0 | 148.8 | 127.5 | 116.6 | 115.2 |

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

Scaled Data Report

REPORT NUMBER: P1223885
CATALOG NUMBER: FFX-CLB-30-722-U-VM9-T4

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 325.0 | 293.8 | 263.0 | 233.4 | 202.8 | 173.0 | 145.8 | 126.2 | 115.8 | 114.7 |
| 115° | 311.1 | 282.7 | 253.6 | 225.7 | 196.4 | 167.9 | 142.7 | 124.3 | 114.7 | 113.4 |
| 117.5° | 298.4 | 270.9 | 243.8 | 217.4 | 189.8 | 162.9 | 138.9 | 121.9 | 112.8 | 111.8 |
| 120° | 284.0 | 258.4 | 233.1 | 208.1 | 182.3 | 157.0 | 134.4 | 119.0 | 110.5 | 109.7 |
| 122.5° | 269.9 | 246.2 | 222.2 | 198.5 | 174.3 | 150.4 | 129.9 | 115.2 | 107.8 | 107.0 |
| 125° | 255.0 | 233.1 | 210.8 | 188.4 | 165.5 | 143.5 | 124.6 | 111.0 | 104.3 | 103.5 |
| 127.5° | 239.8 | 219.6 | 198.5 | 177.8 | 157.0 | 136.5 | 119.0 | 106.7 | 100.3 | 100.1 |
| 130° | 223.8 | 205.7 | 186.6 | 167.4 | 148.2 | 129.3 | 113.1 | 102.2 | 96.3 | 95.8 |
| 132.5° | 209.5 | 192.7 | 174.9 | 156.8 | 138.7 | 122.2 | 107.5 | 97.4 | 92.4 | 91.8 |
| 135° | 195.4 | 178.6 | 163.1 | 147.2 | 130.4 | 115.0 | 101.9 | 92.9 | 88.4 | 87.8 |
| 137.5° | 181.0 | 166.3 | 152.0 | 137.1 | 121.9 | 108.1 | 96.6 | 88.6 | 84.6 | 84.1 |
| 140° | 166.6 | 154.4 | 141.3 | 127.2 | 114.2 | 101.7 | 91.3 | 84.6 | 80.9 | 80.4 |
| 142.5° | 153.6 | 141.9 | 130.1 | 117.9 | 106.2 | 95.5 | 86.5 | 80.1 | 76.9 | 76.7 |
| 145° | 140.8 | 130.7 | 120.0 | 109.1 | 99.0 | 90.2 | 82.0 | 76.7 | 74.0 | 73.7 |
| 147.5° | 129.3 | 120.3 | 110.7 | 101.4 | 92.6 | 84.4 | 77.7 | 73.2 | 70.5 | 70.3 |
| 150° | 117.9 | 109.9 | 101.9 | 94.0 | 86.5 | 79.6 | 73.7 | 70.0 | 68.1 | 67.6 |
| 152.5° | 107.8 | 101.4 | 94.2 | 87.6 | 80.9 | 75.1 | 70.5 | 67.1 | 65.5 | 65.2 |
| 155° | 98.7 | 93.4 | 87.6 | 81.7 | 76.4 | 71.6 | 67.6 | 64.9 | 63.6 | 63.6 |
| 157.5° | 91.0 | 86.5 | 81.7 | 76.9 | 72.7 | 68.7 | 65.5 | 63.3 | 62.3 | 62.0 |
| 160° | 84.1 | 80.1 | 76.4 | 72.9 | 68.9 | 66.0 | 63.6 | 61.7 | 60.9 | 60.7 |
| 162.5° | 77.7 | 75.1 | 72.1 | 69.2 | 66.3 | 63.9 | 62.0 | 60.7 | 60.1 | 60.1 |
| 165° | 73.2 | 70.8 | 68.4 | 66.3 | 64.1 | 62.5 | 60.9 | 60.1 | 59.6 | 59.4 |
| 167.5° | 69.2 | 67.3 | 65.7 | 64.1 | 62.5 | 61.2 | 60.1 | 59.6 | 59.1 | 59.1 |
| 170° | 66.0 | 64.7 | 63.6 | 62.5 | 61.5 | 60.4 | 59.9 | 59.4 | 59.1 | 59.1 |
| 172.5° | 63.3 | 62.5 | 61.7 | 61.2 | 60.4 | 59.9 | 59.4 | 59.1 | 59.1 | 59.1 |
| 175° | 61.7 | 61.2 | 60.7 | 60.4 | 60.1 | 59.9 | 59.6 | 59.4 | 59.4 | 59.4 |
| 177.5° | 60.7 | 60.4 | 60.4 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 | 60.1 |
| 180° | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 |

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

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

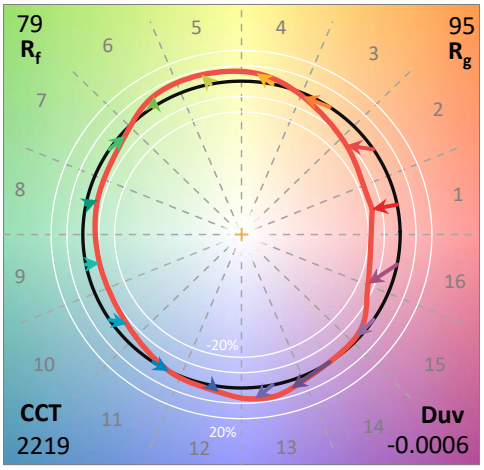
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-2 |
| 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-100-722-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2219 |
| CIE u': | 0.2889 |
| CIE v': | 0.5348 |
| Duv: | -0.0006 |
| CIE x: | 0.5023 |
| CIE y: | 0.4133 |
| CIE z: | 0.0844 |
| Peak Wavelength (nm): | 606 |
| Dominant Wavelength (nm): | 587 |
| Purity: | 74.84521 |
| Rf: | 78.8 |
| Rg: | 94.5 |

| | |
|---|---|
| CRI (Ra): | 73.3 |
| R1: | 71.2 |
| R2: | 89.1 |
| R3: | 88.3 |
| R4: | 68.0 |
| R5: | 71.8 |
| R6: | 89.6 |
| R7: | 71.4 |
| R8: | 37.3 |
| R9: | -25.6 |
| R10: | 78.7 |
| R11: | 66.6 |
| R12: | 77.1 |
| R13: | 75.0 |
| R14: | 93.9 |
| R15: | 61.0 |




## Test Conditions

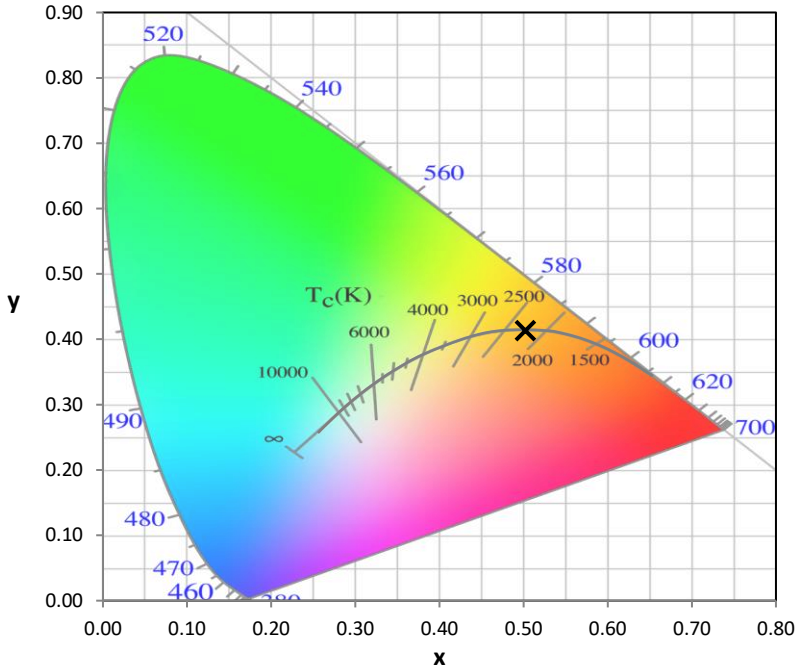
| | |
|---|---|
| Stabilization Time: | 61M |
| Operation Time: | 2H 1M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-2

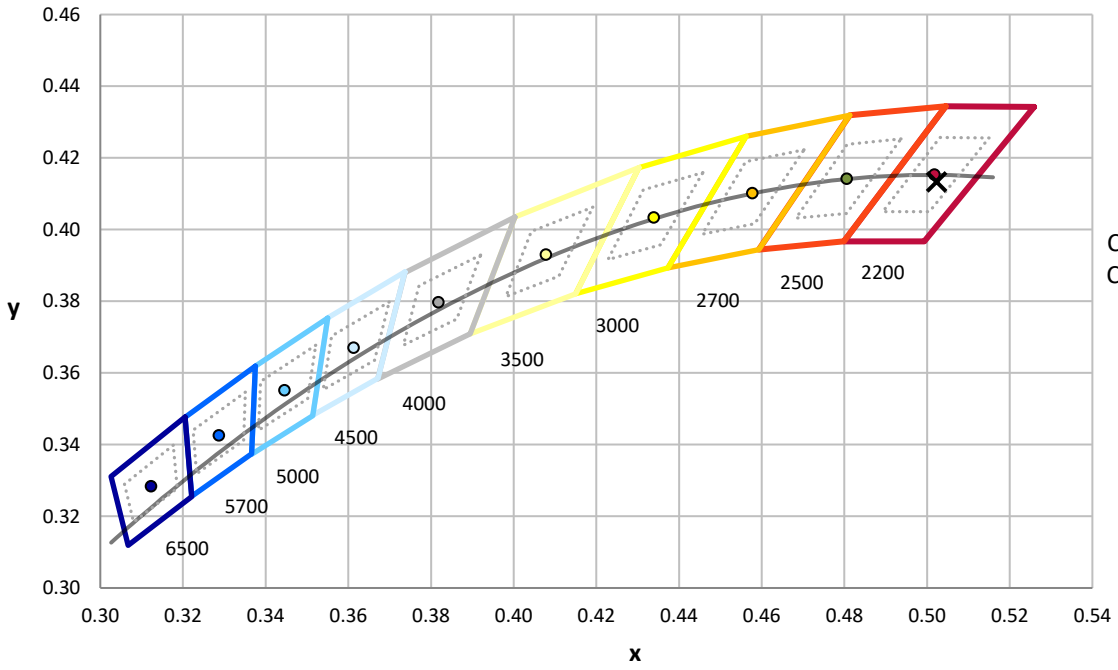
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-2

## CIE 1931 Chromaticity Diagram




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

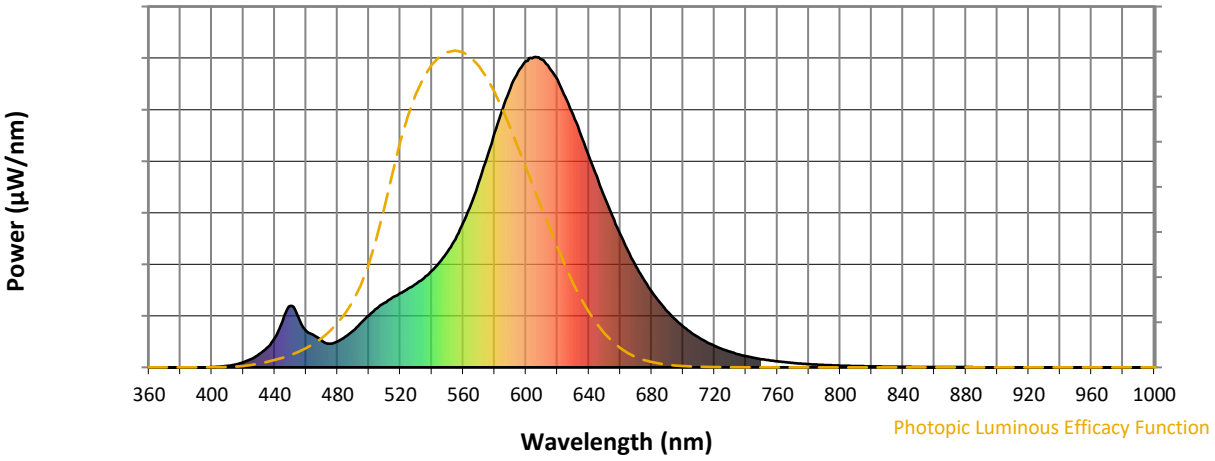



CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

## Photopic Flux vs. Wavelength

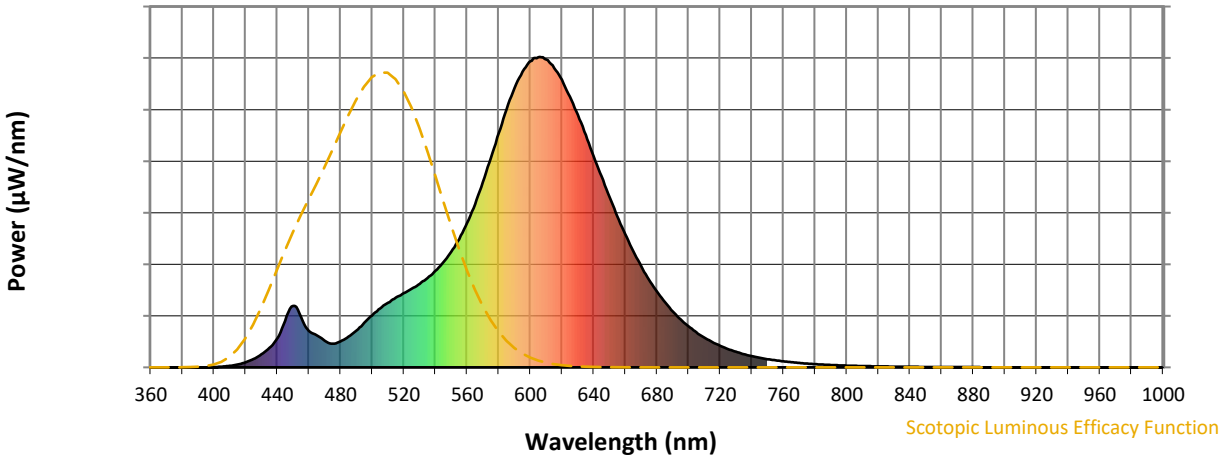



## Photopic Lumens: NR

| 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 | 118 | NR | 620 | 926 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 143 | NR | 625 | 872 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 167 | NR | 630 | 813 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 190 | NR | 635 | 748 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 208 | NR | 640 | 681 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 224 | NR | 645 | 616 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 239 | NR | 650 | 548 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 254 | NR | 655 | 486 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 429 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 2 | NR | 535 | 288 | NR | 665 | 375 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 5 | NR | 540 | 311 | NR | 670 | 326 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 339 | NR | 675 | 282 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 16 | NR | 550 | 372 | NR | 680 | 245 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 27 | NR | 555 | 413 | NR | 685 | 210 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 42 | NR | 560 | 466 | NR | 690 | 180 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 526 | NR | 695 | 154 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 94 | NR | 570 | 597 | NR | 700 | 132 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 150 | NR | 575 | 674 | NR | 705 | 113 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 198 | NR | 580 | 756 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 162 | NR | 585 | 831 | NR | 715 | 82 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 117 | NR | 590 | 900 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 952 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 987 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 999 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 84 | NR | 610 | 991 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 964 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-2

## Scotopic Flux vs. Wavelength

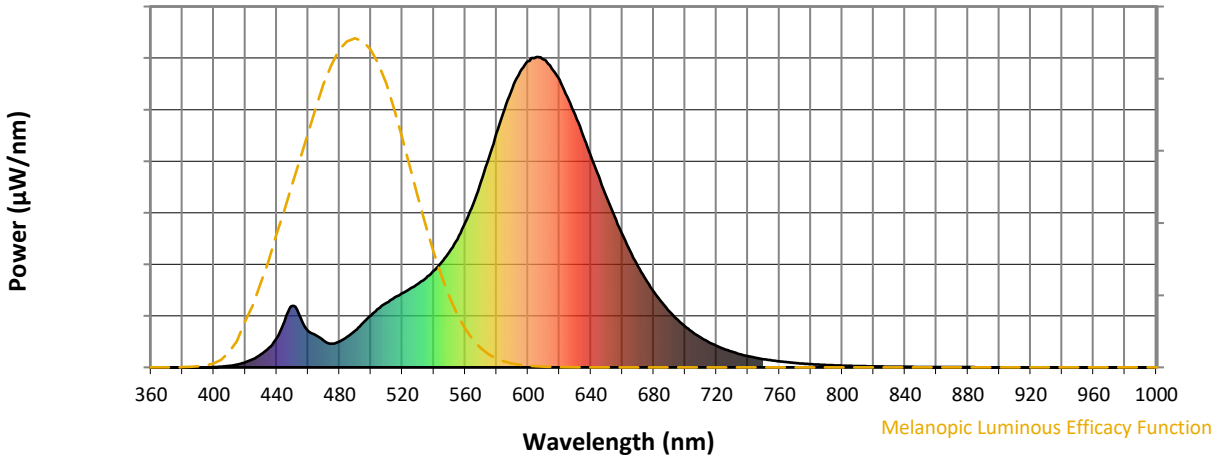



**Scotopic Lumens: NR** **S/P: 0.94**

| 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 | 118 | NR | 620 | 926 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 143 | NR | 625 | 872 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 167 | NR | 630 | 813 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 190 | NR | 635 | 748 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 208 | NR | 640 | 681 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 224 | NR | 645 | 616 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 239 | NR | 650 | 548 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 254 | NR | 655 | 486 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 429 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 2 | NR | 535 | 288 | NR | 665 | 375 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 5 | NR | 540 | 311 | NR | 670 | 326 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 339 | NR | 675 | 282 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 16 | NR | 550 | 372 | NR | 680 | 245 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 27 | NR | 555 | 413 | NR | 685 | 210 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 42 | NR | 560 | 466 | NR | 690 | 180 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 526 | NR | 695 | 154 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 94 | NR | 570 | 597 | NR | 700 | 132 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 150 | NR | 575 | 674 | NR | 705 | 113 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 198 | NR | 580 | 756 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 162 | NR | 585 | 831 | NR | 715 | 82 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 117 | NR | 590 | 900 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 952 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 987 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 999 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 84 | NR | 610 | 991 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 964 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.65**

| 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 | 118 | NR | 620 | 926 | NR | 750 | 26 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 143 | NR | 625 | 872 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 167 | NR | 630 | 813 | NR | 760 | 19 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 190 | NR | 635 | 748 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 208 | NR | 640 | 681 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 224 | NR | 645 | 616 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 239 | NR | 650 | 548 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 254 | NR | 655 | 486 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 269 | NR | 660 | 429 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 2 | NR | 535 | 288 | NR | 665 | 375 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 5 | NR | 540 | 311 | NR | 670 | 326 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 10 | NR | 545 | 339 | NR | 675 | 282 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 16 | NR | 550 | 372 | NR | 680 | 245 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 27 | NR | 555 | 413 | NR | 685 | 210 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 42 | NR | 560 | 466 | NR | 690 | 180 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 63 | NR | 565 | 526 | NR | 695 | 154 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 94 | NR | 570 | 597 | NR | 700 | 132 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 150 | NR | 575 | 674 | NR | 705 | 113 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 198 | NR | 580 | 756 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 162 | NR | 585 | 831 | NR | 715 | 82 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 117 | NR | 590 | 900 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 103 | NR | 595 | 952 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 987 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 999 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 84 | NR | 610 | 991 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 964 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

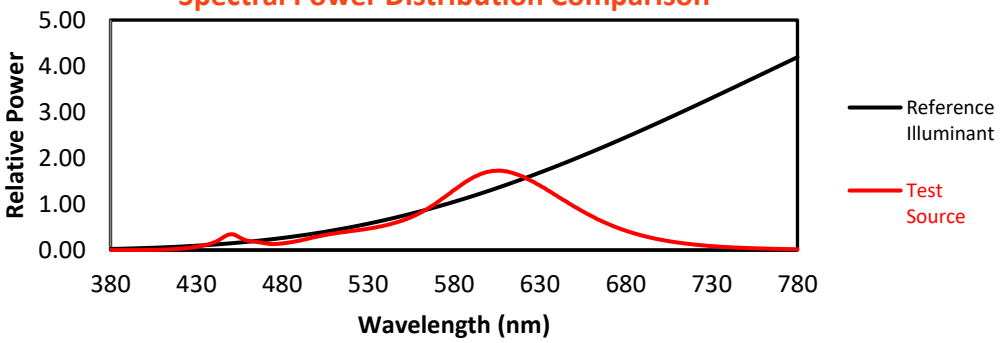
REPORT NUMBER: SP1-2501-332-2

# TM-30-18

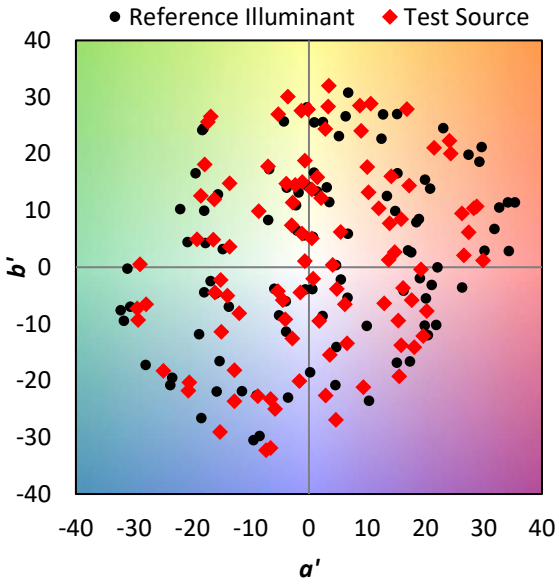
## Summary

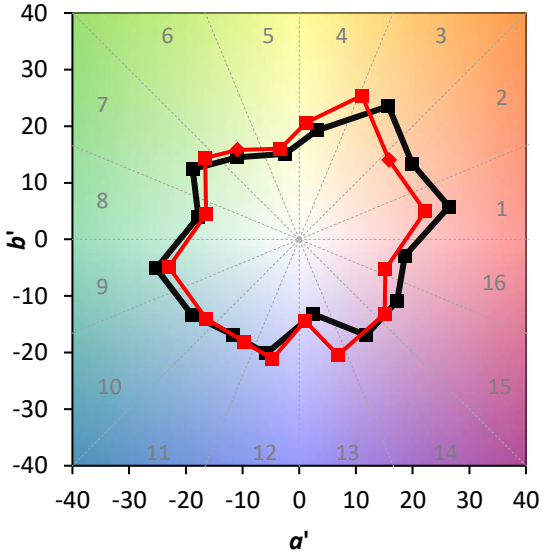
$R_f$ = 78.8
$R_g$ = 94.5
CIE $R_a$ = 73.3
$R_9$ = -25.6

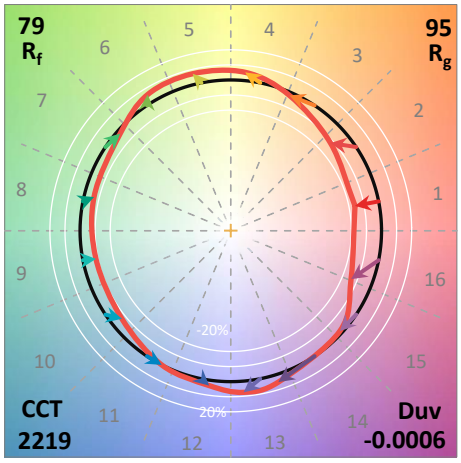
## Spectral Power Distribution Comparison

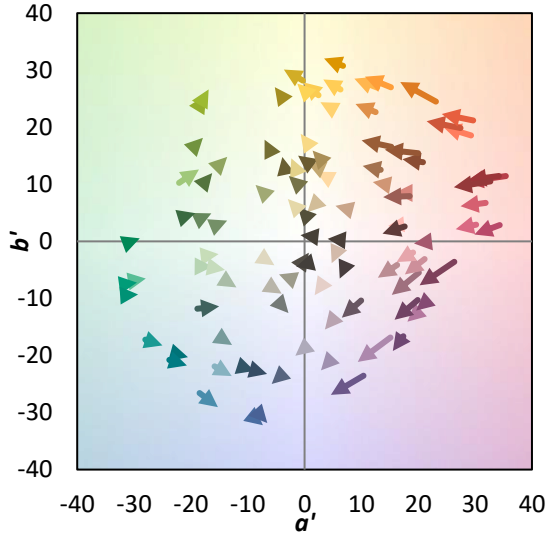



## Color Vector Graphics



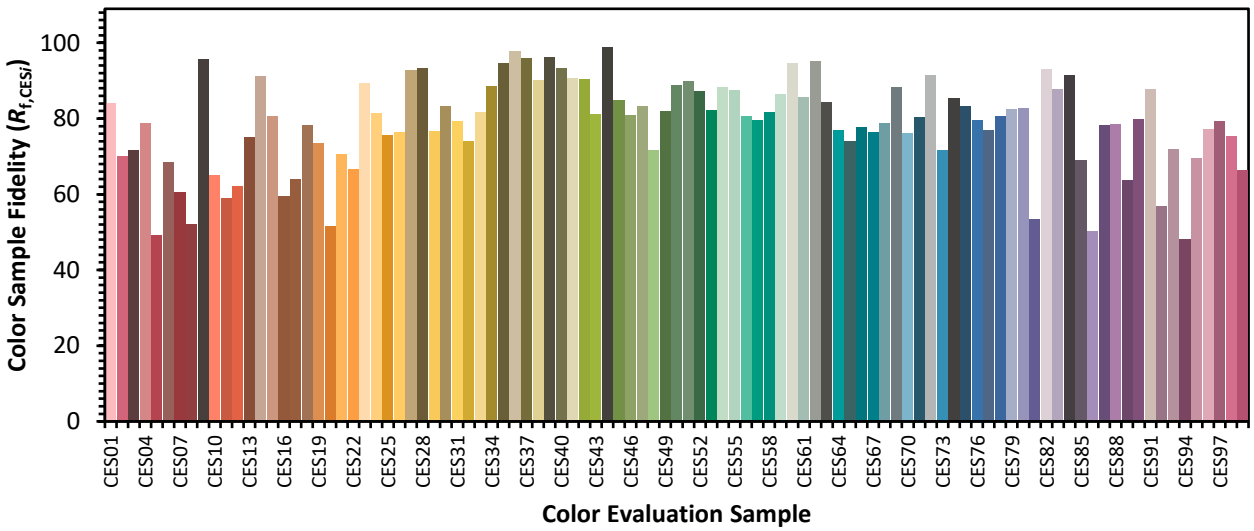



REPORT NUMBER: SP1-2501-332-2

# TM-30-18

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

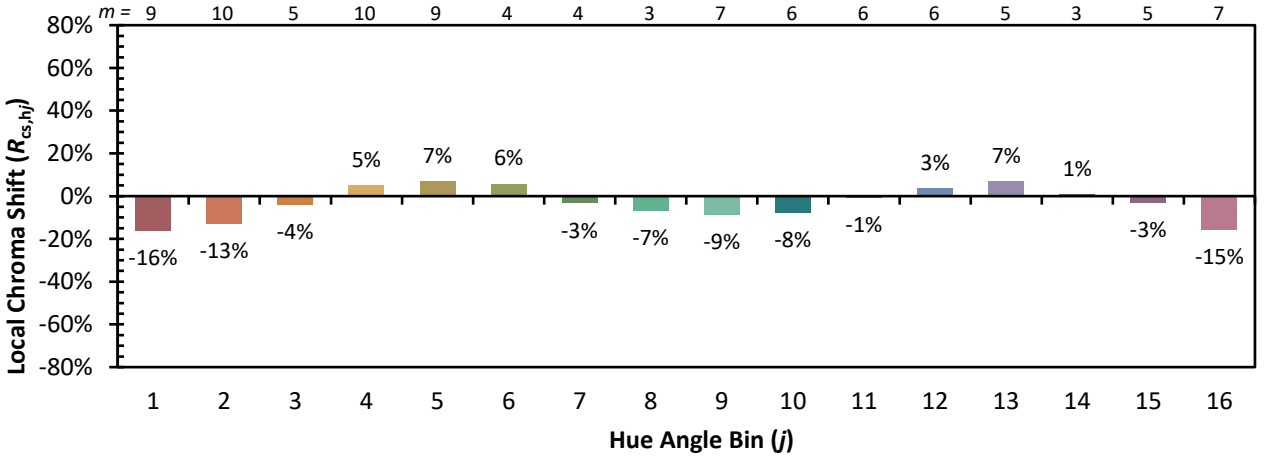
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| CES04 = 72 | CES29 = 77 | CES54 = 88 | CES79 = 83 |
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| CES06 = 52 | CES31 = 79 | CES56 = 81 | CES81 = 53 |
| CES07 = 44 | CES32 = 74 | CES57 = 80 | CES82 = 93 |
| CES08 = 42 | CES33 = 82 | CES58 = 82 | CES83 = 88 |
| CES09 = 29 | CES34 = 89 | CES59 = 87 | CES84 = 91 |
| CES10 = 79 | CES35 = 95 | CES60 = 95 | CES85 = 69 |
| CES11 = 62 | CES36 = 98 | CES61 = 86 | CES86 = 50 |
| CES12 = 68 | CES37 = 96 | CES62 = 95 | CES87 = 78 |
| CES13 = 45 | CES38 = 90 | CES63 = 84 | CES88 = 79 |
| CES14 = 75 | CES39 = 96 | CES64 = 77 | CES89 = 64 |
| CES15 = 72 | CES40 = 93 | CES65 = 74 | CES90 = 80 |
| CES16 = 49 | CES41 = 91 | CES66 = 78 | CES91 = 88 |
| CES17 = 51 | CES42 = 90 | CES67 = 77 | CES92 = 57 |
| CES18 = 57 | CES43 = 81 | CES68 = 79 | CES93 = 72 |
| CES19 = 74 | CES44 = 99 | CES69 = 88 | CES94 = 48 |
| CES20 = 68 | CES45 = 85 | CES70 = 76 | CES95 = 70 |
| CES21 = 88 | CES46 = 81 | CES71 = 80 | CES96 = 77 |
| CES22 = 81 | CES47 = 83 | CES72 = 91 | CES97 = 79 |
| CES23 = 92 | CES48 = 72 | CES73 = 72 | CES98 = 75 |
| CES24 = 92 | CES49 = 82 | CES74 = 85 | CES99 = 66 |
| CES25 = 73 | CES50 = 89 | CES75 = 83 | |

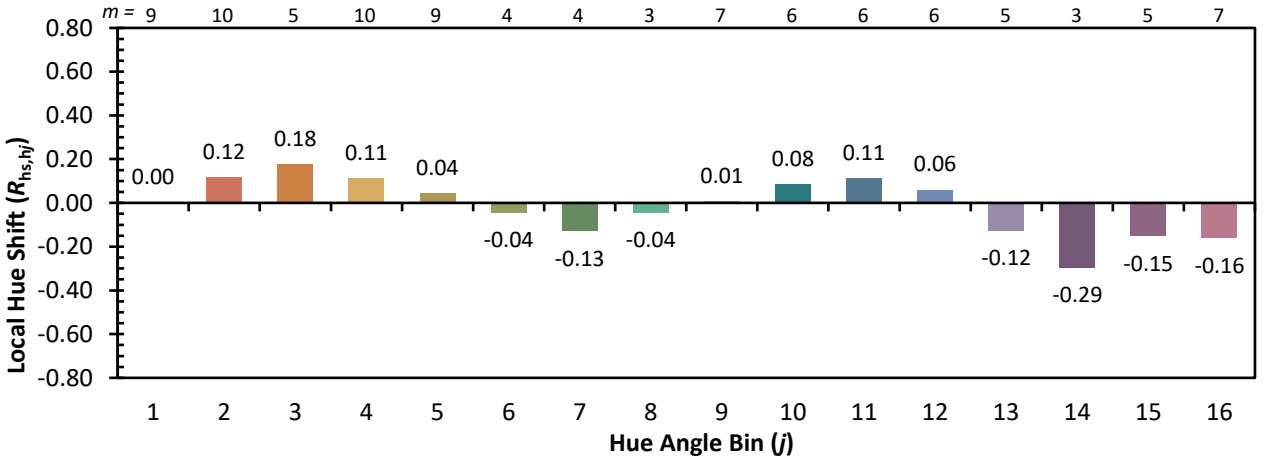


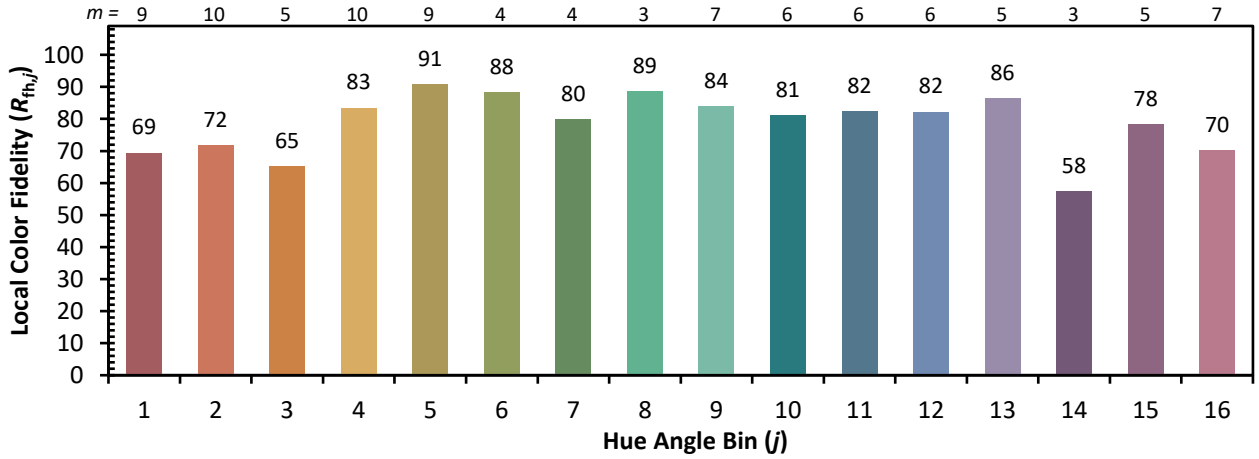
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## Color Rendition by Hue-Angle Bin



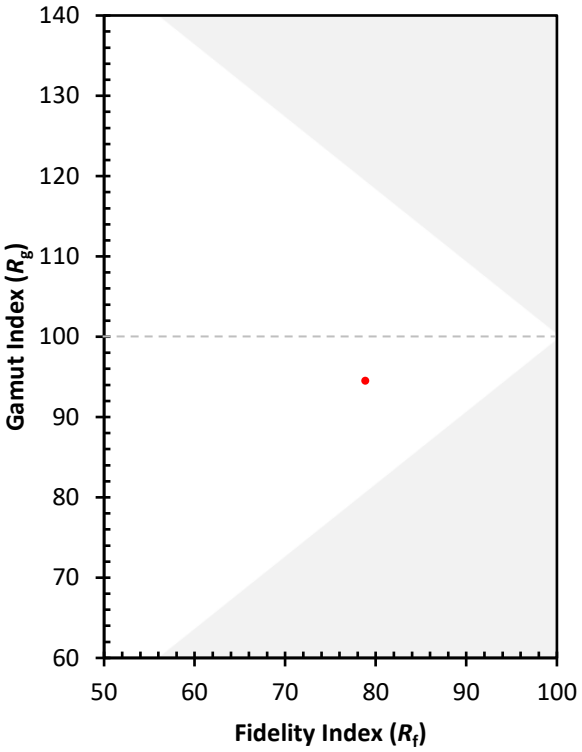



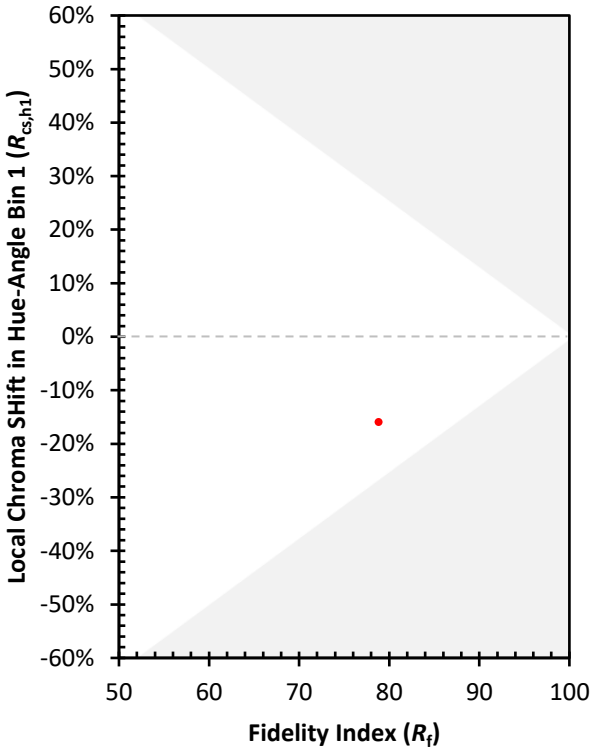



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## Measure Comparisons




(END OF REPORT)