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: P1223975

Luminaire Tested: **FFX-CLB-30-722-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: | P1223975 |
| 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-VM8-T4 |
| Description: | FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 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: | 3944.6 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 |

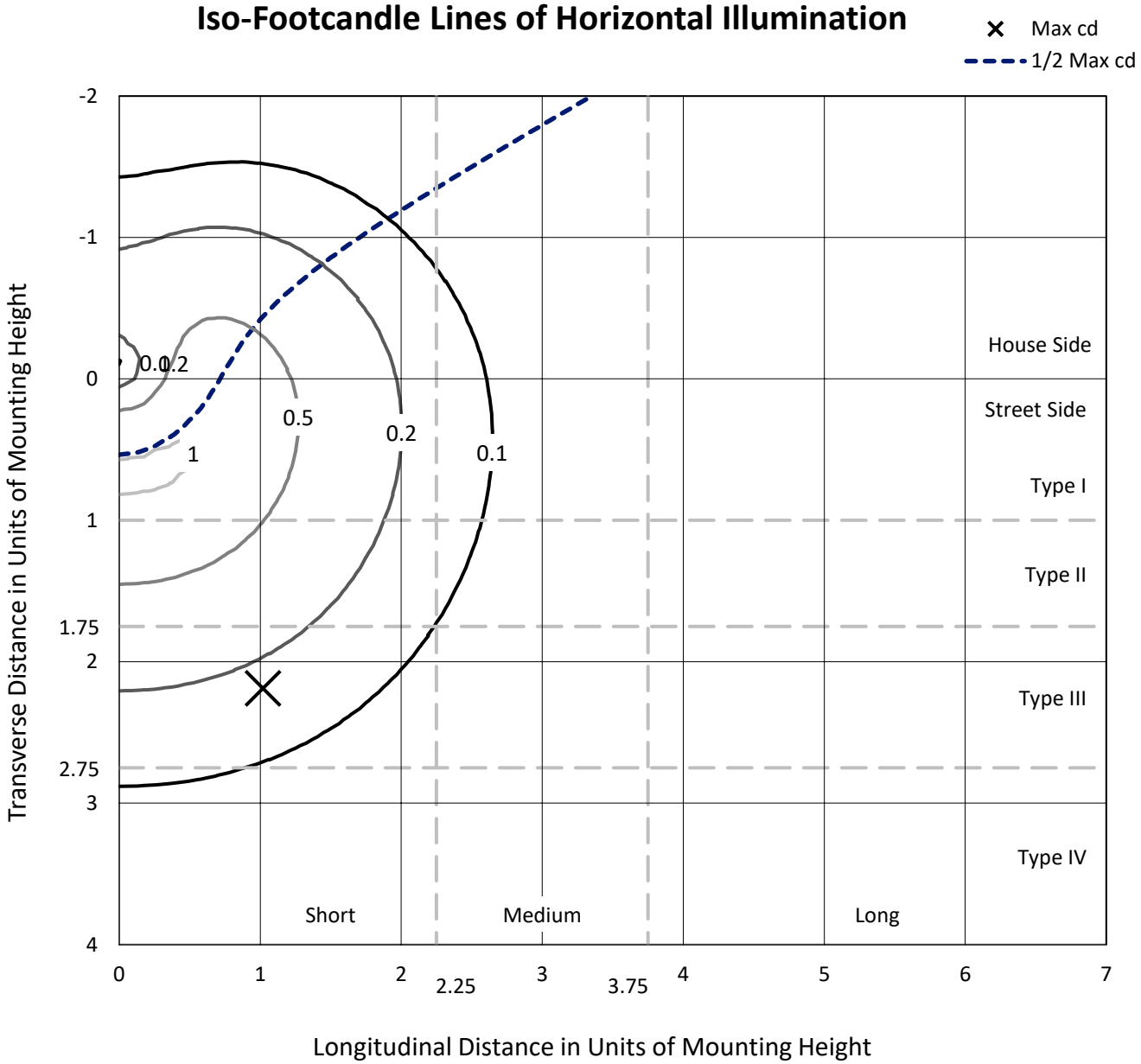


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REPORT NUMBER: P1223975
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## Iso-Footcandle Lines of Horizontal Illumination



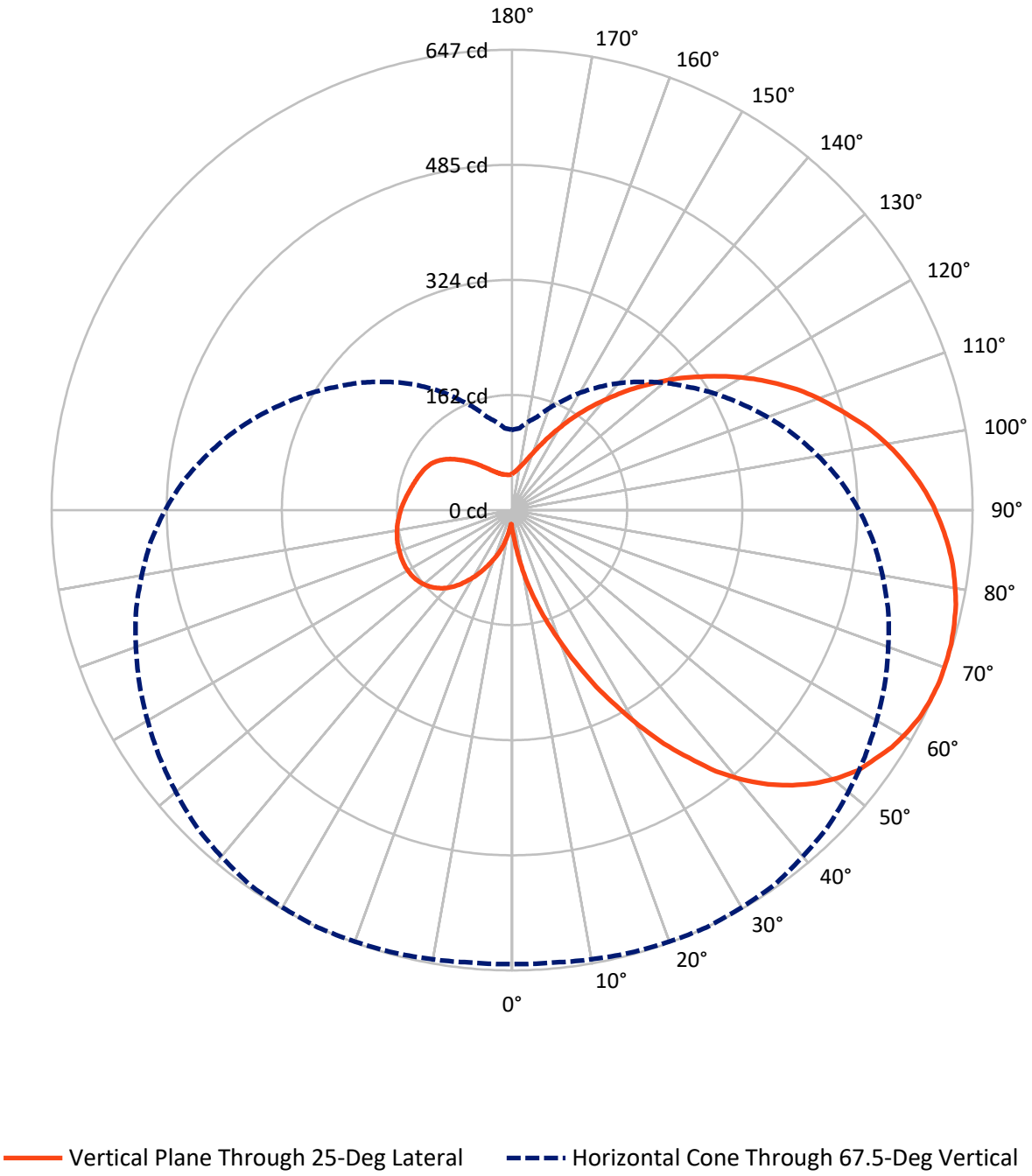

Based on 15 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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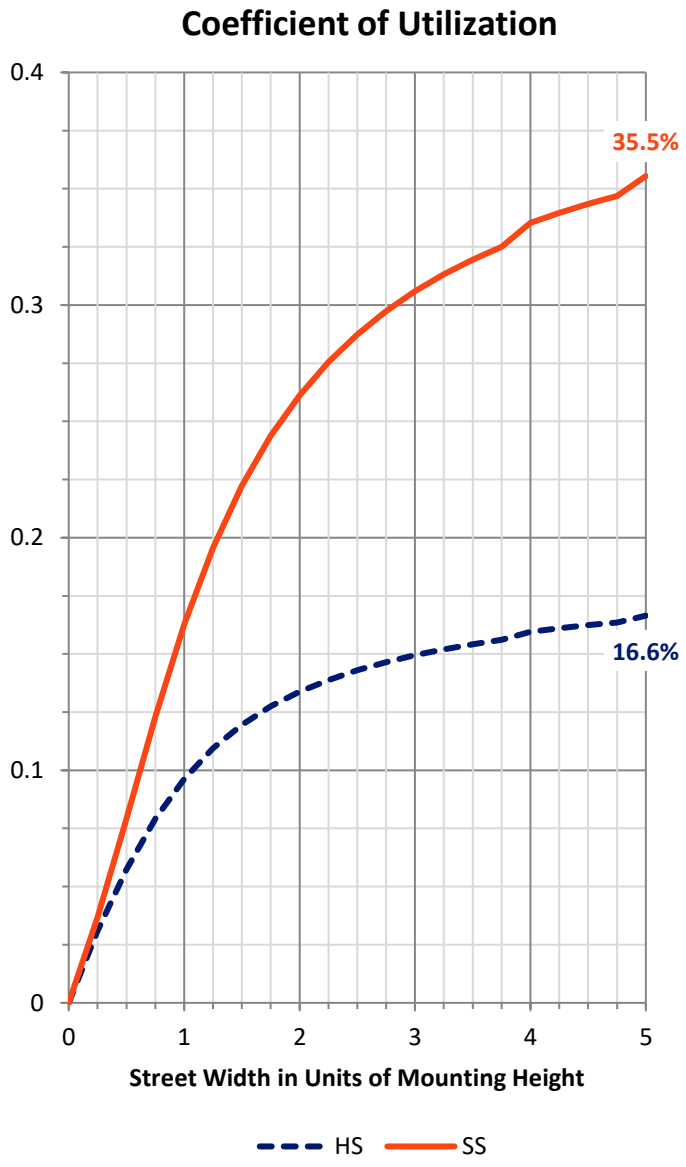
REPORT NUMBER: P1223975
CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T4

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 722.4 | 552.2 | 1274.6 |
| | % Fixture | 18.3 | 14.0 | 32.3 |
| **Street Side** | Lumens | 1596.2 | 1073.8 | 2670.0 |
| | % Fixture | 40.5 | 27.2 | 67.7 |
| **Total** | Lumens | 2318.6 | 1626.0 | 3944.6 |
| | % Fixture | 58.8 | 41.2 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 4.3 | 0.1 |
| 10°-20° | 30.0 | 0.8 |
| 20°-30° | 89.9 | 2.3 |
| 30°-40° | 184.9 | 4.7 |
| 40°-50° | 288.7 | 7.3 |
| 50°-60° | 374.0 | 9.5 |
| 60°-70° | 431.2 | 10.9 |
| 70°-80° | 458.8 | 11.6 |
| 80°-90° | 456.8 | 11.6 |
| 90°-100° | 426.2 | 10.8 |
| 100°-110° | 372.5 | 9.4 |
| 110°-120° | 305.1 | 7.7 |
| 120°-130° | 226.9 | 5.8 |
| 130°-140° | 147.6 | 3.7 |
| 140°-150° | 83.6 | 2.1 |
| 150°-160° | 41.2 | 1.0 |
| 160°-170° | 18.0 | 0.5 |
| 170°-180° | 5.0 | 0.1 |
| 0°-90° | 2318.6 | 58.8 |
| 0°-180° | 3944.6 | 100.0 |



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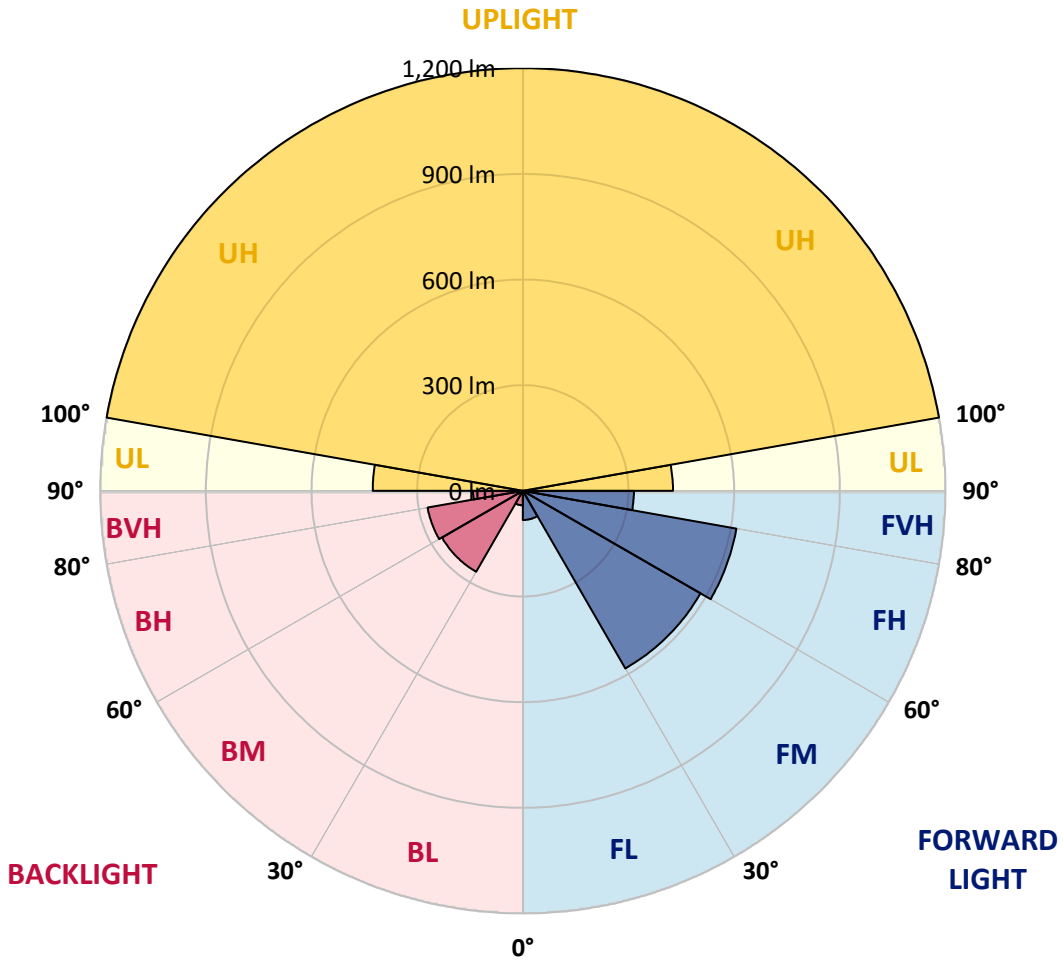
Scaled Data Report

REPORT NUMBER: P1223975
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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°) | 82.9 | 2.1 | | | |
| FM | (30°-60°) | 582.4 | 14.8 | | | |
| FH | (60°-80°) | 615.6 | 15.6 | | | G0/660 |
| FVH | (80°-90°) | 315.3 | 8.0 | | | G3/500 |
| BL | (0°-30°) | 41.3 | 1.0 | B0/110 | | |
| BM | (30°-60°) | 265.2 | 6.7 | B1/1000 | | |
| BH | (60°-80°) | 274.4 | 7.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 141.5 | 3.6 | | | G2/225 |
| UL | (90°-100°) | 426.2 | 10.8 | | U3/500 | |
| UH | (100°-180°) | 1199.8 | 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° | 28.5 | 28.5 | 28.5 | *28.5* | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| 2.5° | 34.1 | 34.1 | 34.3 | *34.3* | 33.8 | 34.1 | 33.6 | 32.8 | 32.3 | 31.0 | 30.5 |
| 5° | 49.6 | 48.8 | 49.1 | *48.6* | 47.6 | 47.1 | 45.1 | 43.6 | 41.1 | 38.3 | 37.1 |
| 7.5° | 68.9 | 69.1 | 68.1 | *66.9* | 66.6 | 63.9 | 63.4 | 58.6 | 56.6 | 51.8 | 50.6 |
| 10° | 92.6 | 92.1 | 91.1 | *90.9* | 88.6 | 85.9 | 81.6 | 79.1 | 72.6 | 69.1 | 66.4 |
| 12.5° | 118.7 | 118.9 | 117.2 | *115.4* | 113.4 | 109.7 | 103.9 | 99.9 | 94.7 | 87.4 | 83.9 |
| 15° | 146.7 | 145.7 | 145.7 | *143.7* | 140.7 | 136.5 | 132.0 | 126.2 | 118.7 | 110.9 | 105.9 |
| 17.5° | 172.8 | 174.8 | 174.0 | *171.5* | 168.8 | 163.5 | 158.8 | 150.7 | 142.5 | 134.0 | 127.7 |
| 20° | 205.3 | 205.8 | 204.6 | *202.3* | 199.8 | 193.8 | 188.1 | 180.0 | 169.8 | 156.5 | 151.2 |
| 22.5° | 238.1 | 239.1 | 239.1 | *237.9* | 234.4 | 229.1 | 219.9 | 211.1 | 198.3 | 185.0 | 176.3 |
| 25° | 275.9 | 275.2 | 275.9 | *275.2* | 269.4 | 264.7 | 255.2 | 244.6 | 230.9 | 214.6 | 204.1 |
| 27.5° | 314.0 | 315.0 | 313.0 | *311.3* | 309.0 | 301.5 | 291.2 | 277.9 | 260.7 | 243.6 | 232.4 |
| 30° | 351.1 | 353.3 | 353.3 | *351.3* | 347.8 | 340.3 | 328.8 | 314.5 | 295.5 | 273.9 | 260.7 |
| 32.5° | 389.9 | 390.6 | 391.6 | *391.4* | 387.4 | 380.1 | 367.3 | 348.1 | 326.8 | 303.0 | 290.0 |
| 35° | 430.9 | 428.7 | 429.2 | *427.7* | 425.9 | 416.9 | 402.1 | 383.6 | 360.6 | 334.0 | 318.3 |
| 37.5° | 465.0 | 464.0 | 464.7 | *466.0* | 461.2 | 452.0 | 435.0 | 413.4 | 388.1 | 360.3 | 344.6 |
| 40° | 497.3 | 496.5 | 497.8 | *498.1* | 493.3 | 482.5 | 464.5 | 443.7 | 416.4 | 384.4 | 369.6 |
| 42.5° | 524.3 | 524.3 | 525.6 | *527.1* | 522.1 | 510.6 | 492.3 | 467.5 | 439.5 | 407.2 | 389.1 |
| 45° | 549.4 | 548.6 | 551.1 | *551.9* | 546.9 | 535.4 | 514.8 | 489.8 | 459.7 | 426.9 | 408.2 |
| 47.5° | 569.4 | 569.7 | 572.2 | *573.7* | 569.2 | 556.1 | 535.4 | 508.8 | 477.5 | 443.2 | 423.9 |
| 50° | 585.9 | 588.2 | 590.5 | *592.2* | 587.4 | 574.4 | 552.9 | 524.1 | 492.8 | 458.2 | 438.2 |
| 52.5° | 602.5 | 602.5 | 606.0 | *608.2* | 603.0 | 589.4 | 566.9 | 538.9 | 506.8 | 470.3 | 450.7 |
| 55° | 613.0 | 613.2 | 617.5 | *618.2* | 615.0 | 601.0 | 577.9 | 549.9 | 517.8 | 481.0 | 460.2 |
| 57.5° | 622.3 | 622.5 | 627.3 | *629.0* | 624.5 | 611.0 | 587.4 | 558.4 | 527.1 | 489.5 | 468.5 |
| 60° | 630.3 | 630.0 | 634.0 | *636.5* | 632.0 | 617.7 | 594.7 | 566.4 | 534.4 | 497.3 | 475.5 |
| 62.5° | 635.3 | 635.3 | 640.0 | *642.5* | 637.8 | 623.8 | 600.2 | 572.2 | 540.1 | 502.6 | 481.0 |
| 65° | 637.5 | 638.0 | 642.5 | *645.5* | 641.0 | 626.8 | 603.2 | 575.7 | 544.1 | 506.8 | 485.0 |
| 67.5° | *638.3* | *638.5* | *644.0* | *647.0* | *642.8* | *628.3* | *605.0* | *577.9* | *547.1* | *509.6* | *487.5* |
| 70° | 638.8 | 639.0 | 643.3 | *646.3* | 642.5 | 628.0 | 605.5 | 578.9 | 548.9 | 511.1 | 489.0 |
| 72.5° | 636.0 | 636.8 | 641.5 | *645.0* | 640.5 | 626.3 | 604.2 | 578.9 | 548.6 | 512.1 | 489.5 |
| 75° | 632.5 | 634.3 | 638.5 | *641.5* | 637.5 | 623.8 | 602.2 | 577.9 | 548.4 | 511.6 | 489.5 |
| 77.5° | 629.0 | 629.3 | 634.8 | *637.5* | 633.3 | 619.2 | 598.7 | 575.4 | 546.9 | 510.1 | 487.8 |
| 80° | 622.0 | 623.5 | 628.3 | *630.8* | 627.0 | 613.7 | 593.7 | 571.9 | 544.1 | 507.6 | 485.0 |
| 82.5° | 617.0 | 616.5 | 621.3 | *623.5* | 619.7 | 606.0 | 587.9 | 566.4 | 540.1 | 503.3 | 481.3 |
| 85° | 607.5 | 608.5 | 612.2 | *614.2* | 610.0 | 597.5 | 580.2 | 560.9 | 534.6 | 498.6 | 476.3 |
| 87.5° | 598.5 | 599.0 | 601.5 | *603.7* | 599.5 | 587.4 | 571.4 | 553.1 | 527.8 | 492.5 | 470.8 |
| 90° | 587.2 | 587.4 | 590.2 | *592.0* | 588.2 | 576.9 | 562.2 | 544.4 | 520.6 | 485.8 | 464.0 |
| 92.5° | 576.7 | 576.2 | 578.2 | *578.9* | 575.7 | 564.7 | 551.4 | 534.9 | 511.8 | 477.5 | 456.5 |
| 95° | 562.9 | 562.7 | 564.4 | *563.9* | 560.4 | 550.9 | 538.9 | 524.3 | 501.6 | 468.8 | 448.0 |
| 97.5° | 547.6 | 547.9 | 548.9 | *548.4* | 544.6 | 535.9 | 526.6 | 512.1 | 491.0 | 458.5 | 438.5 |
| 100° | 530.6 | 531.4 | 532.9 | *531.4* | 528.1 | 521.6 | 511.8 | 499.8 | 479.0 | 448.2 | 428.4 |
| 102.5° | 516.3 | 514.3 | 513.8 | *513.6* | 510.3 | 504.6 | 497.1 | 486.5 | 467.3 | 437.0 | 417.9 |
| 105° | 497.6 | 496.3 | 496.0 | *493.3* | 492.0 | 487.3 | 481.0 | 471.5 | 454.2 | 425.7 | 407.2 |
| 107.5° | 477.8 | 478.0 | 477.0 | *473.8* | 472.0 | 468.8 | 465.2 | 456.7 | 440.2 | 413.2 | 396.1 |
| 110° | 460.0 | 458.7 | 456.0 | *454.5* | 453.2 | 450.5 | 448.2 | 441.7 | 426.4 | 401.1 | 384.1 |

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REPORT NUMBER: P1223975
CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T4

**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 438.0 | 438.7 | 435.5 | *434.4* | 432.4 | 432.2 | 430.7 | 425.4 | 411.9 | 388.4 | 372.3 |
| 115° | 418.2 | 417.7 | 414.4 | *412.4* | 411.7 | 412.2 | 413.2 | 409.4 | 396.9 | 374.6 | 359.8 |
| 117.5° | 396.4 | 394.9 | 392.6 | *390.6* | 389.6 | 391.6 | 393.9 | 392.1 | 381.6 | 360.6 | 346.6 |
| 120° | 373.1 | 373.4 | 370.1 | *368.1* | 368.3 | 371.6 | 374.6 | 373.6 | 363.6 | 344.8 | 332.3 |
| 122.5° | 351.3 | 350.1 | 347.3 | *345.3* | 347.1 | 350.6 | 354.1 | 353.8 | 345.1 | 326.8 | 315.5 |
| 125° | 327.5 | 327.3 | 324.5 | *322.5* | 324.0 | 328.0 | 332.3 | 332.8 | 324.5 | 309.2 | 298.0 |
| 127.5° | 305.0 | 304.2 | 303.7 | *301.5* | 302.5 | 308.0 | 311.0 | 310.8 | 303.5 | 289.5 | 279.7 |
| 130° | 283.5 | 283.2 | 280.2 | *279.2* | 280.5 | 285.0 | 288.0 | 287.5 | 281.7 | 269.4 | 260.7 |
| 132.5° | 261.7 | 260.7 | 259.4 | *257.9* | 258.9 | 262.7 | 266.7 | 266.2 | 259.4 | 247.6 | 240.6 |
| 135° | 240.1 | 239.4 | 238.4 | *237.4* | 238.1 | 241.9 | 245.4 | 244.4 | 238.6 | 228.1 | 221.1 |
| 137.5° | 220.4 | 219.6 | 218.4 | *217.1* | 218.1 | 221.1 | 223.4 | 222.6 | 217.9 | 207.8 | 201.1 |
| 140° | 199.8 | 200.3 | 198.8 | *197.8* | 198.3 | 201.3 | 203.1 | 202.1 | 196.8 | 188.6 | 183.0 |
| 142.5° | 181.0 | 181.0 | 180.3 | *180.0* | 180.8 | 182.3 | 183.8 | 181.8 | 178.3 | 169.8 | 165.3 |
| 145° | 163.0 | 163.3 | 163.0 | *162.5* | 162.8 | 164.5 | 164.8 | 164.0 | 160.0 | 153.7 | 148.7 |
| 147.5° | 146.0 | 146.7 | 146.2 | *146.2* | 146.5 | 147.2 | 148.2 | 146.5 | 143.0 | 137.5 | 134.0 |
| 150° | 130.2 | 130.7 | 130.7 | *130.2* | 130.2 | 131.2 | 131.2 | 130.0 | 127.2 | 122.7 | 119.4 |
| 152.5° | 116.4 | 116.7 | 116.7 | *116.2* | 116.4 | 116.7 | 116.2 | 114.7 | 112.4 | 108.9 | 106.4 |
| 155° | 103.9 | 104.4 | 103.7 | *103.9* | 103.2 | 103.4 | 103.2 | 102.2 | 99.7 | 96.7 | 95.2 |
| 157.5° | 92.6 | 93.4 | 92.9 | *92.9* | 92.4 | 92.1 | 91.9 | 90.9 | 89.1 | 86.6 | 84.9 |
| 160° | 83.6 | 84.1 | 83.4 | *83.4* | 82.9 | 82.9 | 81.9 | 81.4 | 79.6 | 77.4 | 76.4 |
| 162.5° | 75.9 | 75.9 | 75.6 | *75.9* | 75.6 | 74.9 | 74.4 | 73.4 | 71.9 | 70.1 | 69.4 |
| 165° | 69.6 | 69.4 | 69.4 | *69.1* | 68.9 | 68.4 | 67.6 | 67.1 | 65.6 | 64.1 | 63.6 |
| 167.5° | 64.9 | 64.6 | 64.4 | *64.1* | 63.6 | 63.4 | 62.6 | 62.1 | 60.8 | 59.6 | 59.1 |
| 170° | 60.8 | 60.8 | 60.3 | *60.1* | 59.8 | 59.3 | 58.6 | 57.8 | 56.8 | 56.1 | 55.6 |
| 172.5° | 57.3 | 57.3 | 57.1 | *56.8* | 56.6 | 56.1 | 55.3 | 54.8 | 54.1 | 53.3 | 52.8 |
| 175° | 54.8 | 54.8 | 54.6 | *54.1* | 53.8 | 53.3 | 52.8 | 52.3 | 51.6 | 51.1 | 50.8 |
| 177.5° | 52.8 | 52.8 | 52.8 | *52.3* | 52.1 | 51.6 | 51.1 | 50.6 | 50.3 | 49.8 | 49.8 |
| 180° | 50.3 | 50.3 | 50.3 | *50.3* | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 |

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**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| 2.5° | 29.8 | 28.3 | 27.0 | 25.0 | 23.3 | 21.8 | 20.8 | 20.0 | 19.5 | 19.0 |
| 5° | 35.6 | 32.8 | 30.0 | 27.0 | 24.3 | 21.8 | 19.8 | 18.3 | 17.5 | 17.5 |
| 7.5° | 48.6 | 44.3 | 39.6 | 35.3 | 32.1 | 28.8 | 25.8 | 24.0 | 23.0 | 22.5 |
| 10° | 63.6 | 57.3 | 52.6 | 47.3 | 41.6 | 37.6 | 34.1 | 31.8 | 30.5 | 30.8 |
| 12.5° | 81.6 | 73.9 | 67.9 | 60.1 | 53.8 | 47.6 | 43.8 | 40.6 | 39.1 | 38.8 |
| 15° | 101.7 | 92.6 | 83.9 | 74.6 | 66.4 | 59.1 | 53.6 | 49.3 | 46.8 | 46.6 |
| 17.5° | 122.7 | 111.4 | 99.7 | 89.1 | 78.4 | 69.4 | 61.8 | 56.8 | 54.1 | 54.1 |
| 20° | 144.0 | 131.2 | 117.4 | 103.7 | 90.6 | 79.6 | 70.9 | 64.4 | 60.8 | 60.3 |
| 22.5° | 168.5 | 152.2 | 135.7 | 118.9 | 104.2 | 90.4 | 79.1 | 71.4 | 67.6 | 66.9 |
| 25° | 195.3 | 176.0 | 156.3 | 136.5 | 118.2 | 101.7 | 88.6 | 79.9 | 74.6 | 73.9 |
| 27.5° | 223.1 | 199.8 | 176.5 | 153.5 | 132.2 | 113.9 | 98.2 | 86.9 | 81.6 | 80.9 |
| 30° | 250.4 | 224.9 | 197.8 | 170.8 | 146.7 | 125.7 | 107.7 | 94.7 | 88.1 | 87.1 |
| 32.5° | 277.2 | 248.1 | 218.4 | 188.3 | 162.0 | 137.5 | 116.4 | 102.4 | 94.4 | 93.4 |
| 35° | 302.7 | 272.7 | 237.9 | 205.6 | 175.5 | 149.2 | 125.7 | 109.4 | 100.4 | 99.4 |
| 37.5° | 327.8 | 293.7 | 257.2 | 221.6 | 189.1 | 159.3 | 134.2 | 115.9 | 105.9 | 104.9 |
| 40° | 351.6 | 313.8 | 273.9 | 236.4 | 200.8 | 169.3 | 141.5 | 121.7 | 110.4 | 109.2 |
| 42.5° | 369.8 | 331.0 | 289.5 | 248.9 | 211.1 | 176.8 | 148.0 | 126.2 | 113.9 | 112.2 |
| 45° | 388.1 | 346.6 | 302.7 | 259.9 | 220.1 | 184.0 | 153.2 | 130.2 | 117.2 | 115.2 |
| 47.5° | 403.1 | 359.8 | 313.5 | 268.9 | 227.6 | 190.3 | 157.8 | 133.0 | 119.2 | 117.2 |
| 50° | 417.4 | 371.6 | 323.5 | 277.2 | 234.4 | 195.8 | 161.5 | 135.2 | 120.4 | 118.4 |
| 52.5° | 428.4 | 381.4 | 331.5 | 283.7 | 239.9 | 199.8 | 164.5 | 136.7 | 121.2 | 118.9 |
| 55° | 437.7 | 389.4 | 338.0 | 288.7 | 244.1 | 203.3 | 166.8 | 137.5 | 121.2 | 118.9 |
| 57.5° | 445.5 | 395.6 | 343.3 | 293.2 | 247.4 | 205.6 | 168.3 | 137.7 | 120.4 | 118.2 |
| 60° | 452.2 | 401.4 | 347.6 | 296.7 | 250.4 | 207.8 | 169.3 | 137.7 | 119.7 | 117.2 |
| 62.5° | 457.7 | 405.4 | 350.8 | 299.5 | 252.7 | 209.6 | 169.8 | 137.2 | 118.2 | 115.7 |
| 65° | 461.0 | 408.2 | 352.8 | 301.0 | 253.9 | 210.1 | 169.8 | 136.5 | 116.7 | 114.2 |
| 67.5° | *463.7* | *409.9* | *354.1* | *301.7* | *254.7* | *210.6* | *169.5* | *135.2* | *115.2* | *112.7* |
| 70° | 465.0 | 410.7 | 354.6 | 302.2 | 255.2 | 210.3 | 168.8 | 134.2 | 113.7 | 110.7 |
| 72.5° | 465.2 | 410.9 | 354.3 | 302.2 | 255.2 | 210.3 | 168.0 | 132.7 | 111.9 | 109.2 |
| 75° | 464.7 | 410.2 | 353.6 | 302.0 | 254.9 | 209.6 | 167.3 | 131.5 | 110.4 | 107.4 |
| 77.5° | 463.2 | 408.7 | 352.3 | 301.0 | 253.7 | 208.8 | 165.8 | 130.0 | 108.7 | 105.9 |
| 80° | 460.7 | 406.2 | 350.3 | 299.2 | 252.2 | 207.3 | 164.5 | 128.5 | 107.2 | 104.4 |
| 82.5° | 457.0 | 402.9 | 347.8 | 297.0 | 250.7 | 205.6 | 163.0 | 127.0 | 105.7 | 102.9 |
| 85° | 452.5 | 398.9 | 344.1 | 294.2 | 248.4 | 203.6 | 161.0 | 125.2 | 104.2 | 101.4 |
| 87.5° | 446.2 | 393.9 | 340.0 | 291.0 | 245.4 | 201.1 | 158.8 | 123.7 | 102.9 | 100.2 |
| 90° | 440.2 | 388.4 | 335.8 | 287.5 | 242.6 | 198.8 | 156.8 | 121.9 | 101.9 | 99.2 |
| 92.5° | 433.2 | 381.9 | 330.5 | 283.5 | 238.9 | 195.8 | 154.7 | 120.4 | 100.9 | 98.4 |
| 95° | 425.2 | 374.9 | 325.0 | 278.7 | 235.4 | 192.8 | 152.2 | 118.9 | 99.9 | 97.7 |
| 97.5° | 416.2 | 367.3 | 319.0 | 273.7 | 231.1 | 189.6 | 150.0 | 117.7 | 99.4 | 96.9 |
| 100° | 406.9 | 358.8 | 312.5 | 268.7 | 226.9 | 186.0 | 147.7 | 116.4 | 99.2 | 96.9 |
| 102.5° | 396.4 | 351.1 | 306.0 | 263.7 | 222.6 | 182.8 | 145.5 | 115.7 | 99.2 | 96.9 |
| 105° | 386.4 | 342.1 | 299.0 | 258.2 | 218.4 | 179.5 | 143.5 | 115.2 | 99.4 | 97.4 |
| 107.5° | 375.6 | 333.5 | 292.0 | 252.4 | 213.6 | 176.3 | 141.7 | 114.7 | 99.9 | 97.9 |
| 110° | 365.6 | 325.3 | 285.5 | 246.9 | 209.3 | 173.3 | 140.0 | 114.4 | 100.4 | 98.7 |

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

Scaled Data Report

REPORT NUMBER: P1223975
CATALOG NUMBER: FFX-CLB-30-722-U-VM8-T4

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 354.6 | 316.3 | 278.2 | 240.9 | 204.8 | 169.8 | 138.2 | 113.9 | 100.9 | 99.4 |
| 115° | 343.1 | 306.7 | 270.9 | 234.9 | 199.6 | 166.5 | 136.5 | 113.7 | 101.4 | 99.9 |
| 117.5° | 330.5 | 296.5 | 262.2 | 227.9 | 194.1 | 162.5 | 134.0 | 112.7 | 101.4 | 99.9 |
| 120° | 317.0 | 285.7 | 252.7 | 220.4 | 187.8 | 157.8 | 131.5 | 111.4 | 100.9 | 99.7 |
| 122.5° | 302.2 | 272.9 | 241.6 | 210.8 | 180.8 | 152.2 | 127.7 | 109.2 | 99.7 | 98.4 |
| 125° | 286.0 | 258.7 | 230.4 | 200.6 | 172.0 | 146.0 | 123.2 | 106.7 | 97.7 | 96.7 |
| 127.5° | 268.9 | 243.9 | 216.8 | 189.8 | 163.8 | 139.2 | 118.4 | 102.9 | 94.9 | 93.9 |
| 130° | 249.9 | 227.4 | 202.8 | 177.8 | 154.0 | 131.5 | 112.7 | 98.7 | 91.4 | 90.4 |
| 132.5° | 231.6 | 211.1 | 189.1 | 166.8 | 143.7 | 123.9 | 106.4 | 93.9 | 87.6 | 86.6 |
| 135° | 212.6 | 194.6 | 174.8 | 153.7 | 134.2 | 115.7 | 100.2 | 89.1 | 83.4 | 82.6 |
| 137.5° | 194.1 | 178.8 | 160.3 | 141.7 | 124.5 | 107.7 | 94.2 | 84.6 | 79.4 | 78.9 |
| 140° | 176.8 | 162.5 | 147.0 | 130.7 | 114.7 | 100.2 | 88.4 | 79.6 | 75.4 | 74.6 |
| 142.5° | 160.0 | 147.7 | 133.7 | 119.9 | 105.2 | 92.9 | 82.6 | 74.9 | 71.4 | 70.9 |
| 145° | 144.2 | 134.0 | 121.7 | 109.2 | 96.7 | 85.9 | 77.1 | 70.6 | 67.6 | 67.4 |
| 147.5° | 129.5 | 120.9 | 110.2 | 99.7 | 89.1 | 80.1 | 72.1 | 67.1 | 64.4 | 64.1 |
| 150° | 115.9 | 108.2 | 99.7 | 90.6 | 81.9 | 73.9 | 67.9 | 63.4 | 61.1 | 60.8 |
| 152.5° | 103.2 | 97.2 | 90.1 | 82.9 | 75.4 | 69.1 | 63.6 | 60.3 | 58.6 | 58.3 |
| 155° | 92.1 | 87.4 | 81.6 | 75.4 | 69.6 | 64.6 | 60.3 | 57.8 | 56.3 | 56.3 |
| 157.5° | 82.9 | 78.9 | 74.6 | 69.6 | 64.9 | 60.8 | 57.8 | 55.6 | 54.3 | 54.3 |
| 160° | 74.9 | 71.4 | 68.1 | 64.4 | 61.1 | 57.8 | 55.6 | 53.8 | 52.8 | 52.8 |
| 162.5° | 68.1 | 65.6 | 63.1 | 60.3 | 57.6 | 55.6 | 53.6 | 52.3 | 51.8 | 51.6 |
| 165° | 62.6 | 61.1 | 59.1 | 57.1 | 55.3 | 53.6 | 52.3 | 51.6 | 51.1 | 51.1 |
| 167.5° | 58.3 | 57.3 | 55.8 | 54.6 | 53.3 | 52.1 | 51.3 | 50.8 | 50.6 | 50.6 |
| 170° | 55.1 | 54.3 | 53.3 | 52.6 | 51.8 | 51.1 | 50.6 | 50.3 | 50.1 | 50.1 |
| 172.5° | 52.6 | 51.8 | 51.3 | 51.1 | 50.6 | 50.3 | 50.1 | 49.8 | 49.8 | 49.8 |
| 175° | 50.8 | 50.3 | 50.3 | 50.1 | 49.8 | 49.8 | 49.6 | 49.6 | 49.6 | 49.8 |
| 177.5° | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.8 | 49.8 | 49.8 | 50.1 | 50.1 |
| 180° | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 |

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

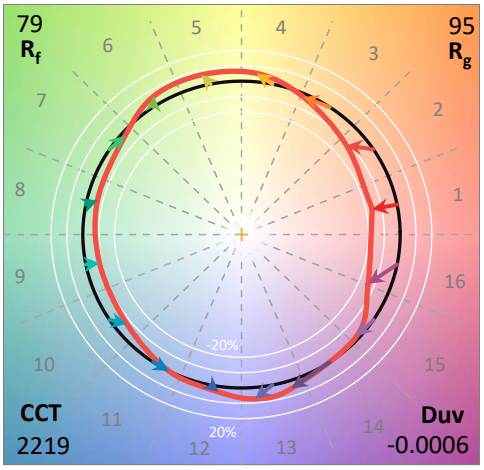
## Test Information

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

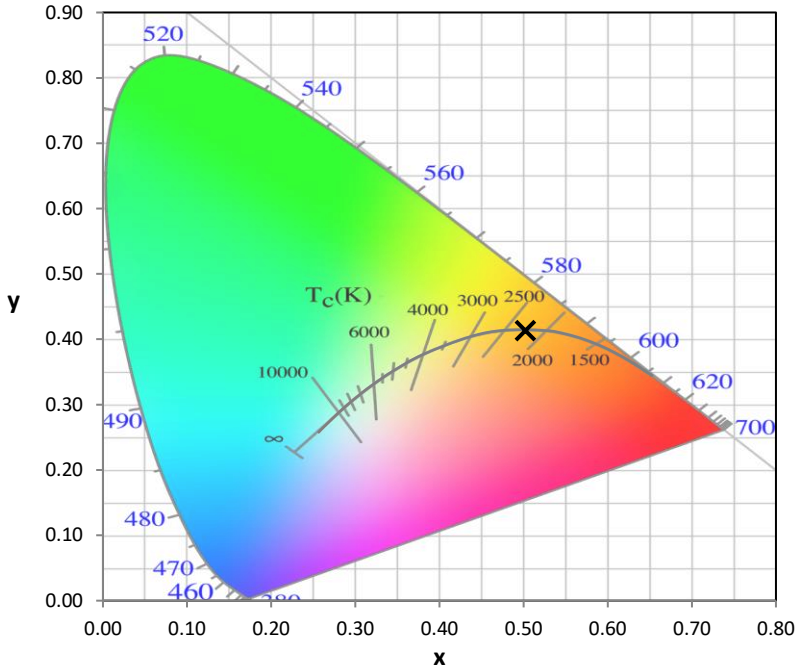
| | |
|---|---|
| Stabilization Time: | 61M |
| Operation Time: | 2H 1M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP1-2501-332-2

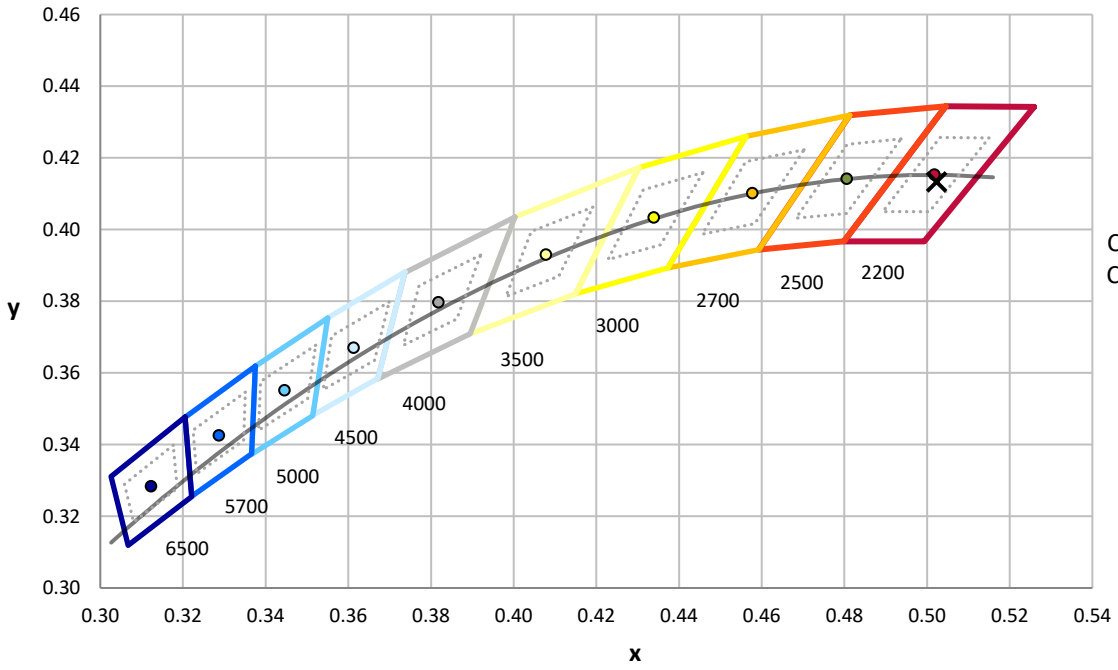
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

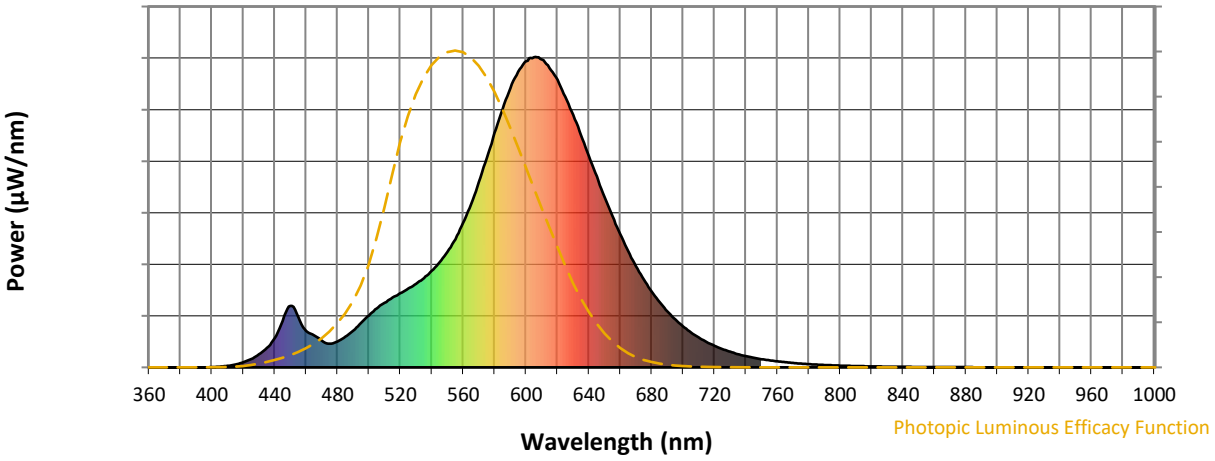



CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

## Photopic Flux vs. Wavelength

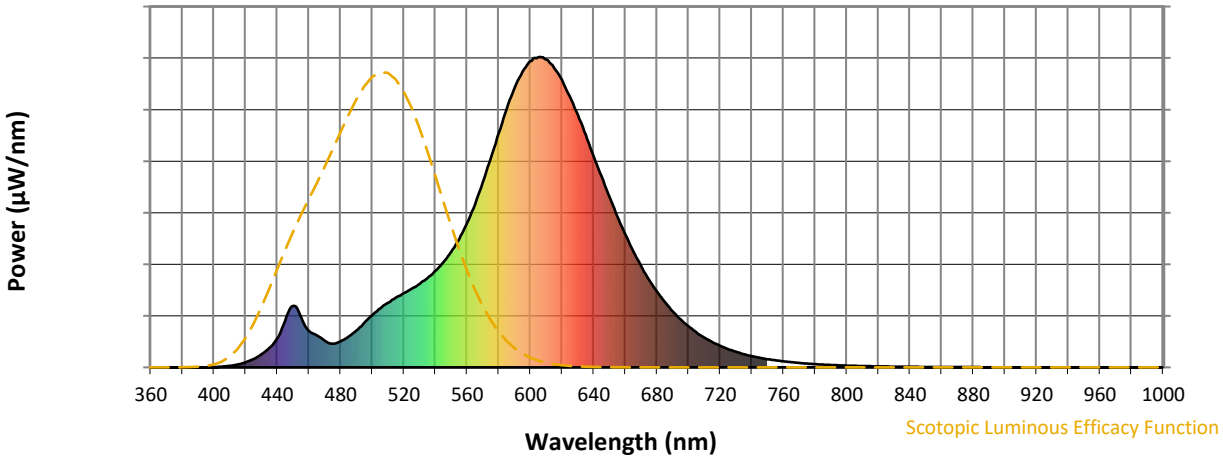



## Photopic Lumens: NR

| 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

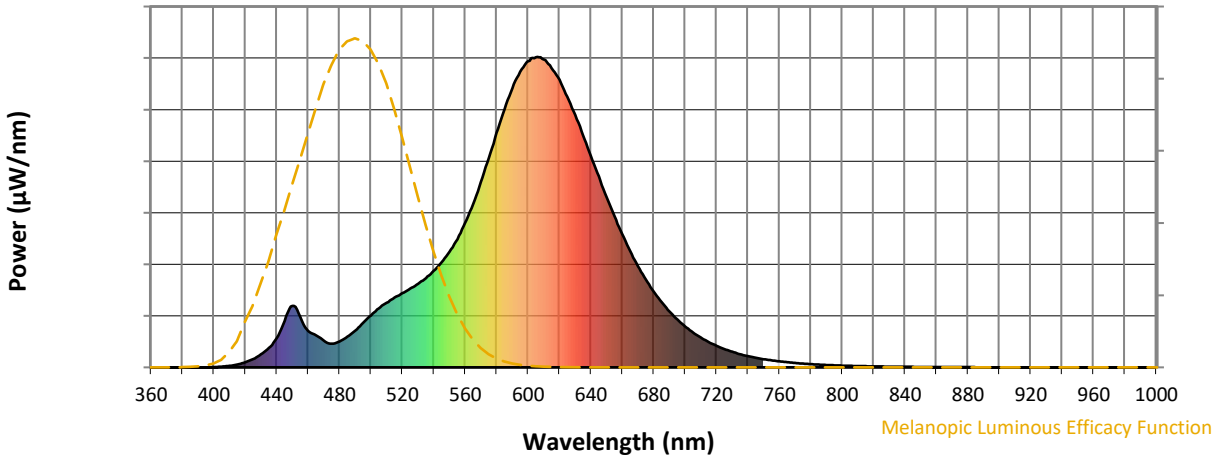



**Scotopic Lumens: NR** **S/P: 0.94**

| 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 | | | |

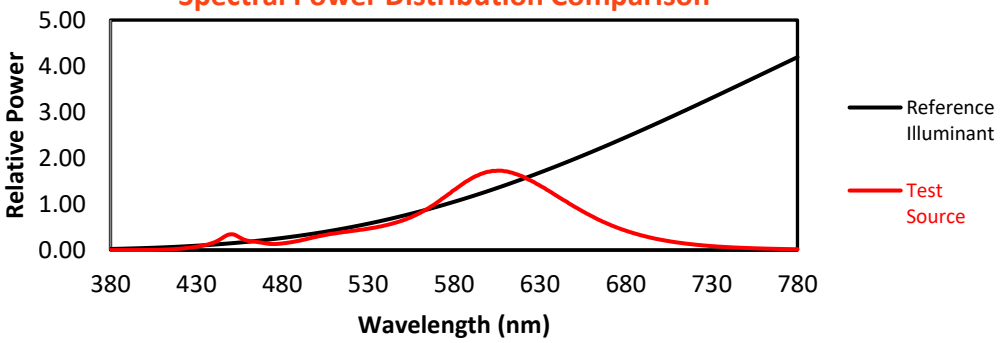
REPORT NUMBER: SP1-2501-332-2

# TM-30-18

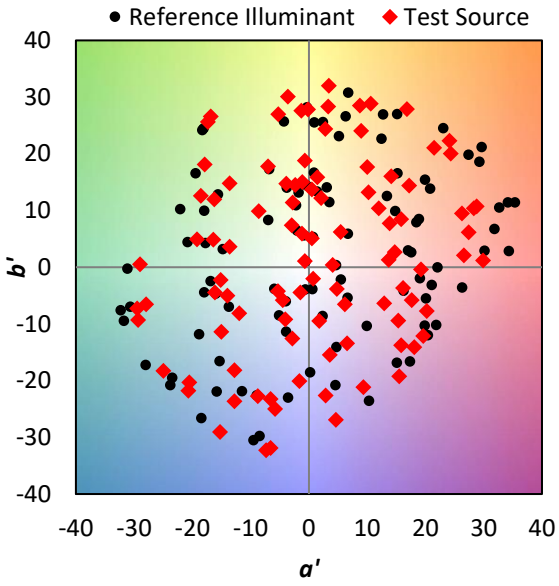
## Summary

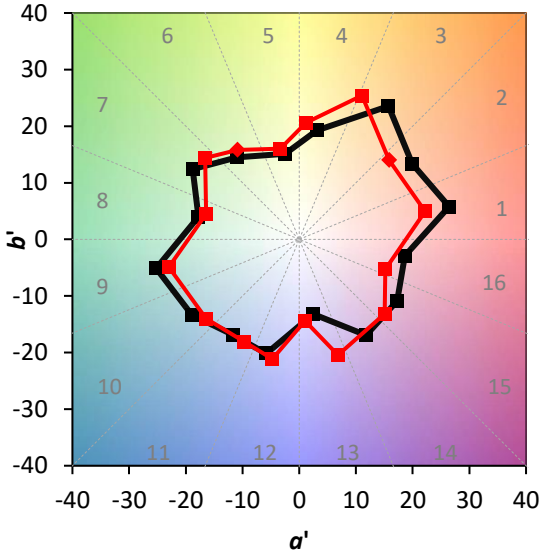
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$R_g$ = 94.5
CIE $R_a$ = 73.3
$R_9$ = -25.6

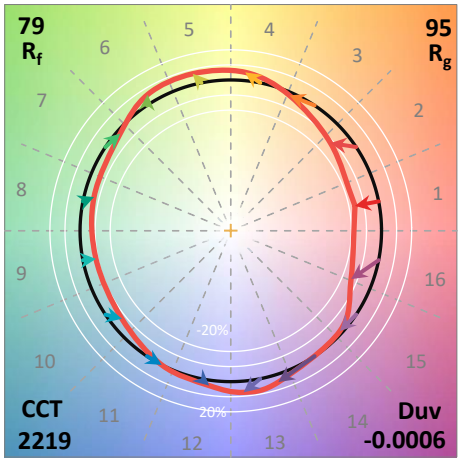
## Spectral Power Distribution Comparison

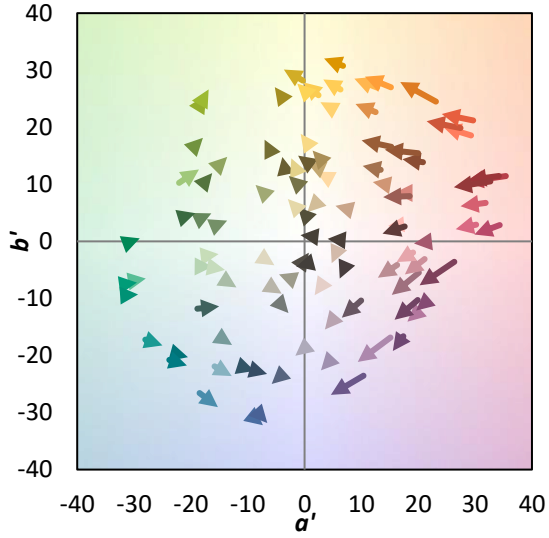



## Color Vector Graphics



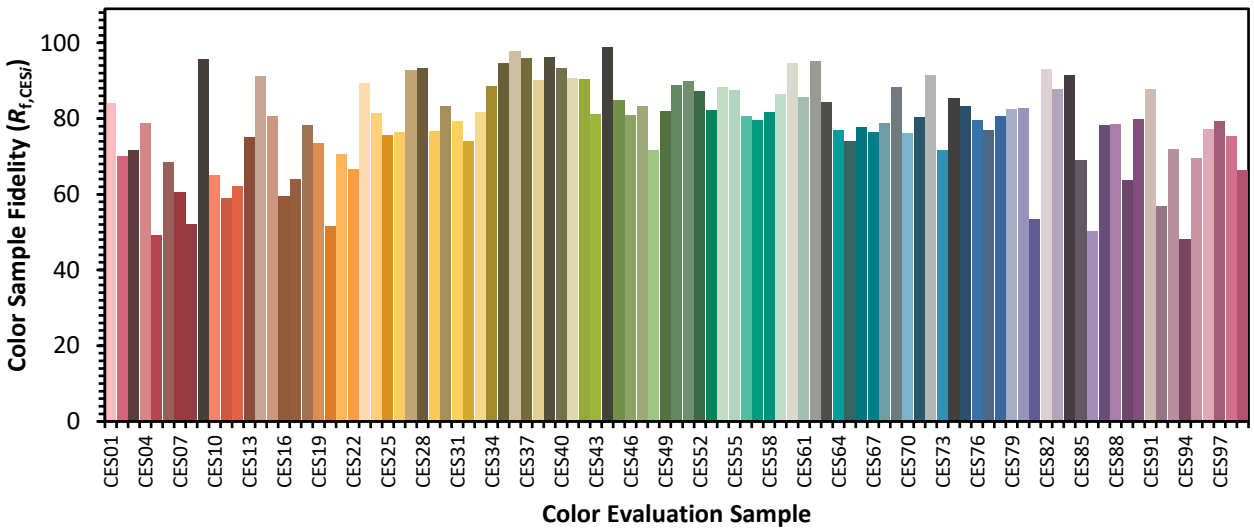



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**Individual Sample Fidelity Index ($R_{f,i}$)**

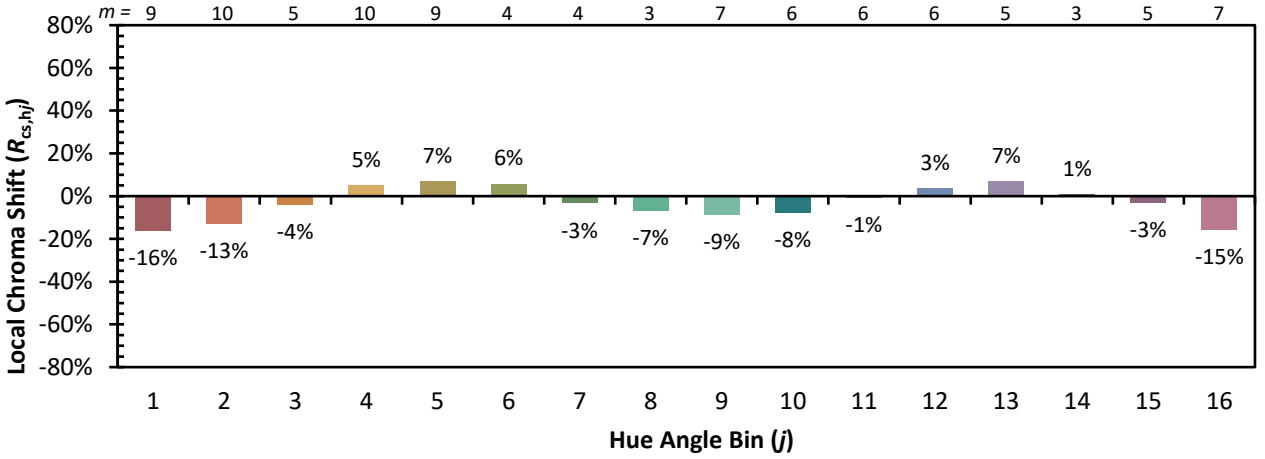
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 76 | CES51 = 90 | CES76 = 80 |
| CES02 = 65 | CES27 = 93 | CES52 = 87 | CES77 = 77 |
| CES03 = 32 | CES28 = 93 | CES53 = 82 | CES78 = 81 |
| CES04 = 72 | CES29 = 77 | CES54 = 88 | CES79 = 83 |
| CES05 = 52 | CES30 = 83 | CES55 = 88 | CES80 = 83 |
| CES06 = 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 | |

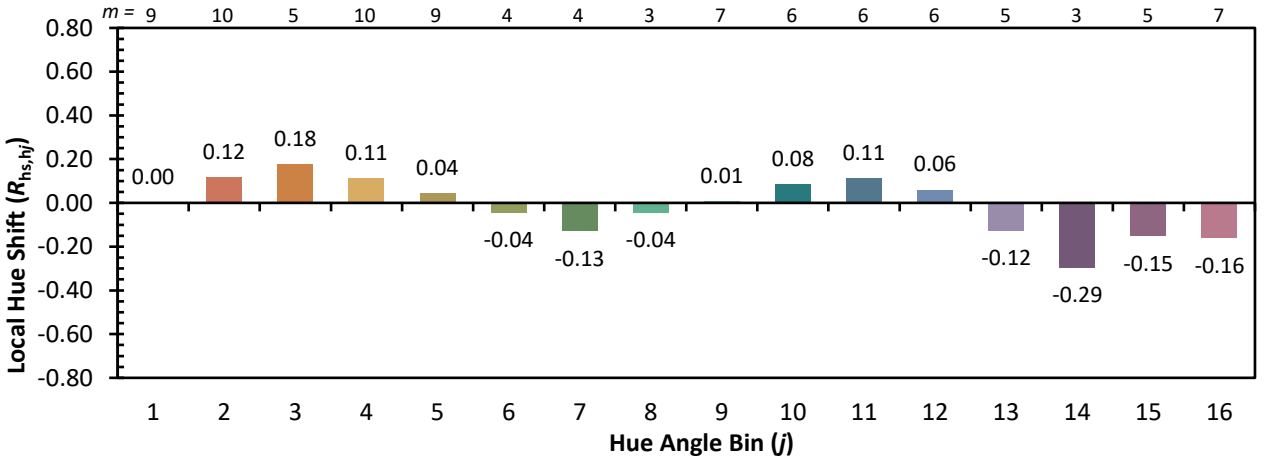


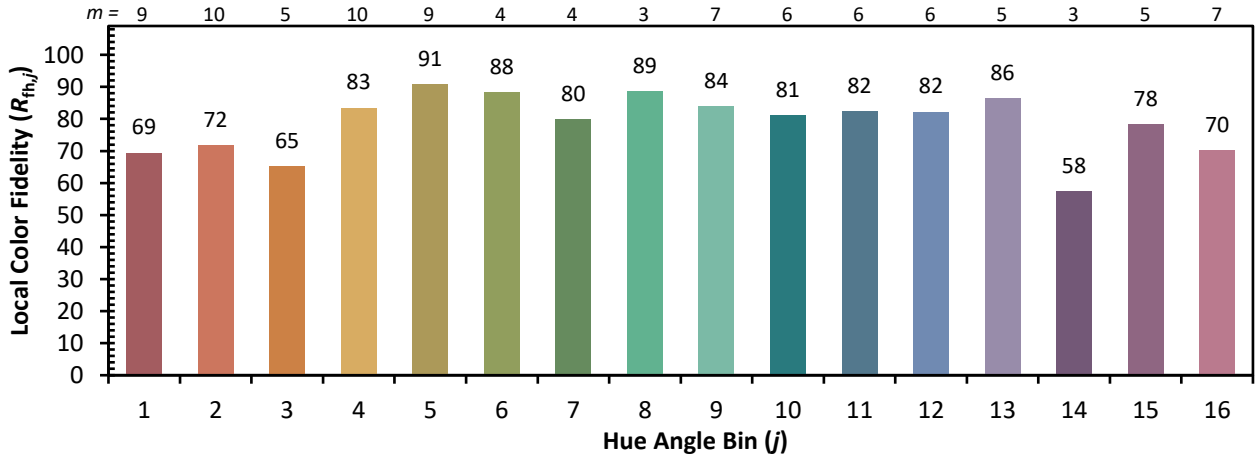
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## Color Rendition by Hue-Angle Bin



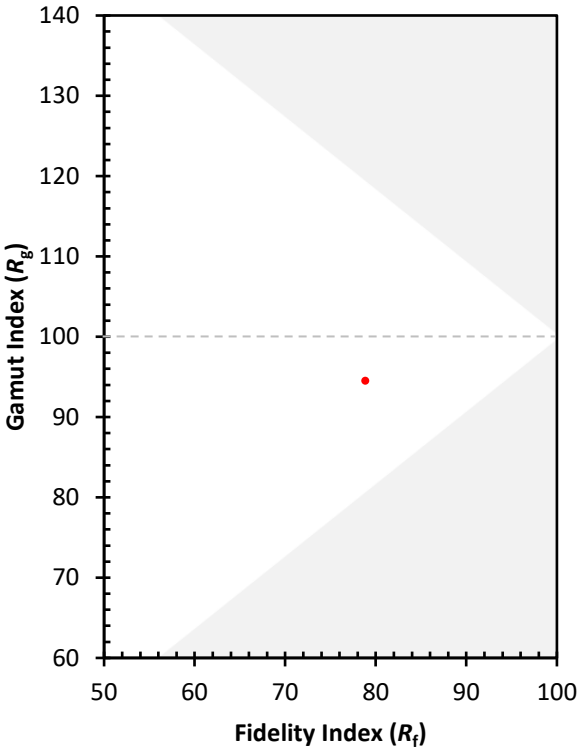



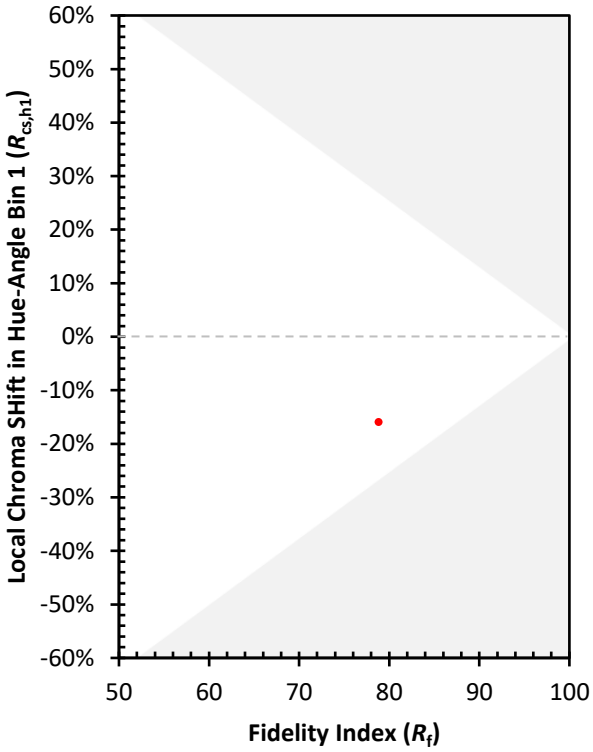



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## Measure Comparisons




(END OF REPORT)