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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1201489

Luminaire Tested: GWC-SB1B-730-U-SLR

Issue Date: 10/30/2025

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1201489 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GWC-SB1B-730-U-SLR |
| Description: | GALLEON WALL LUMINAIRE |
| | (1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5641 lumens |
| Efficiency: | N/A |
| Efficacy: | 141.7 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 39.8 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.33 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.996 |
| Total Harmonic Distortion (THDi): | 5.305 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

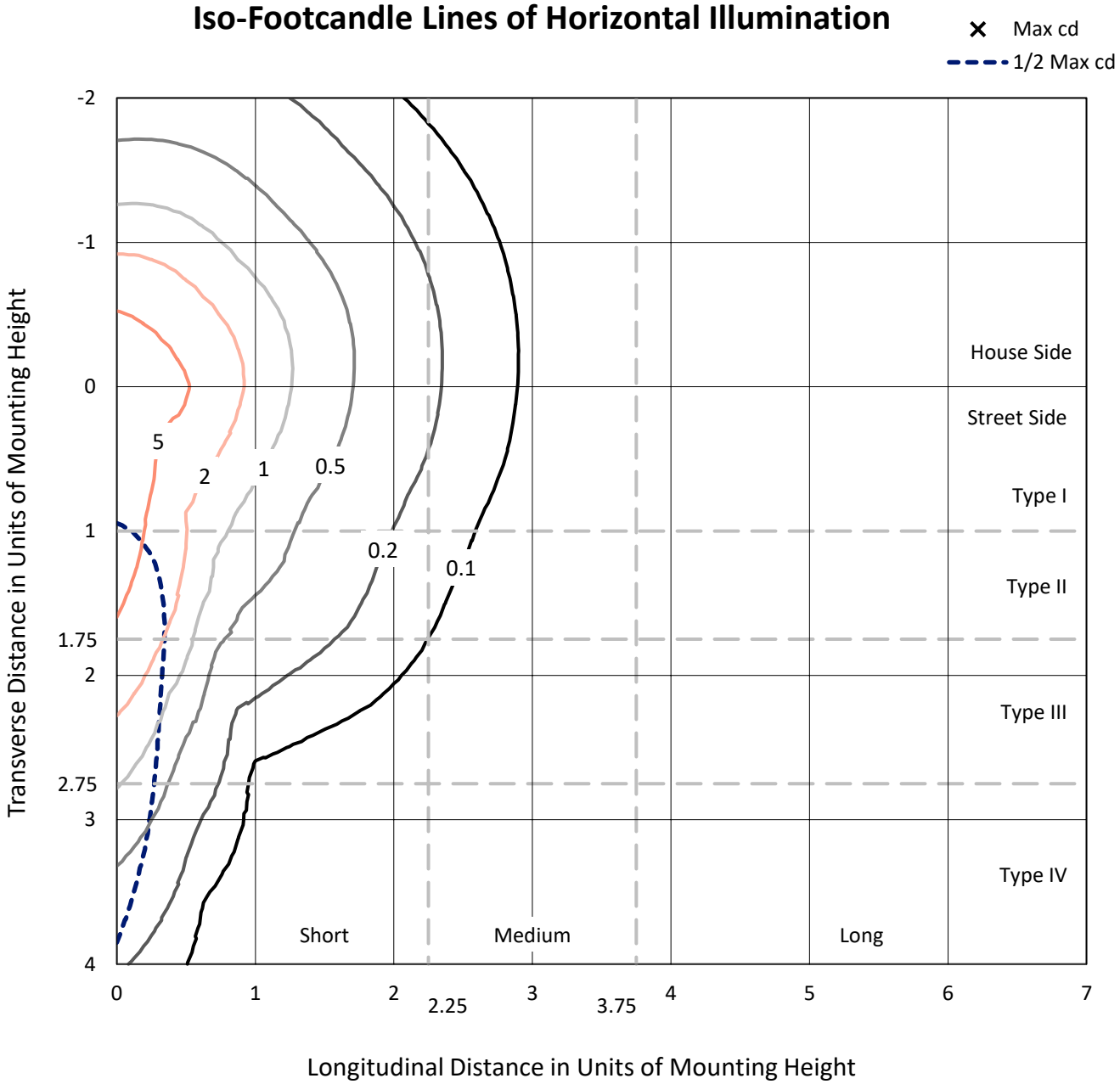


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## Iso-Footcandle Lines of Horizontal Illumination



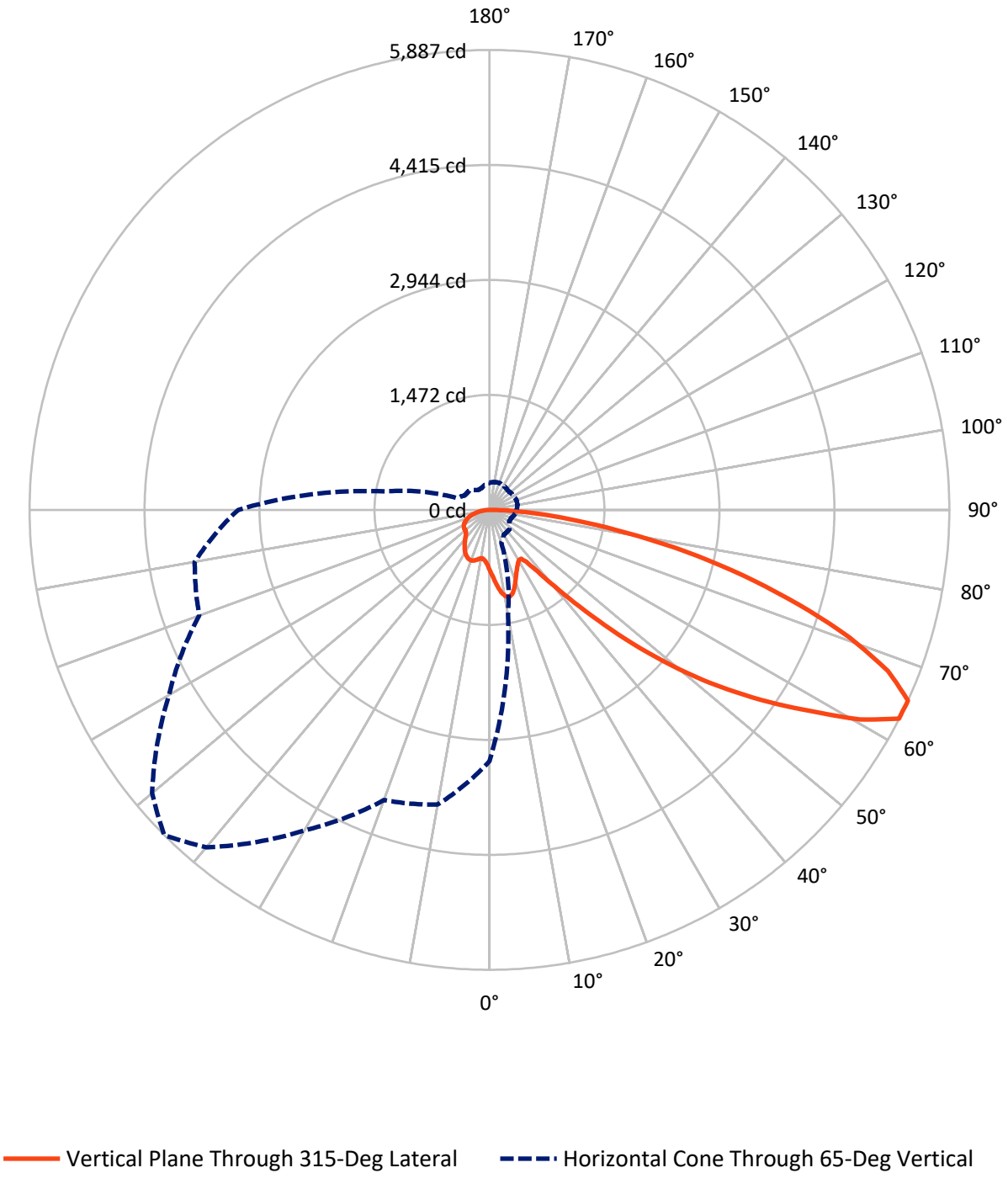

Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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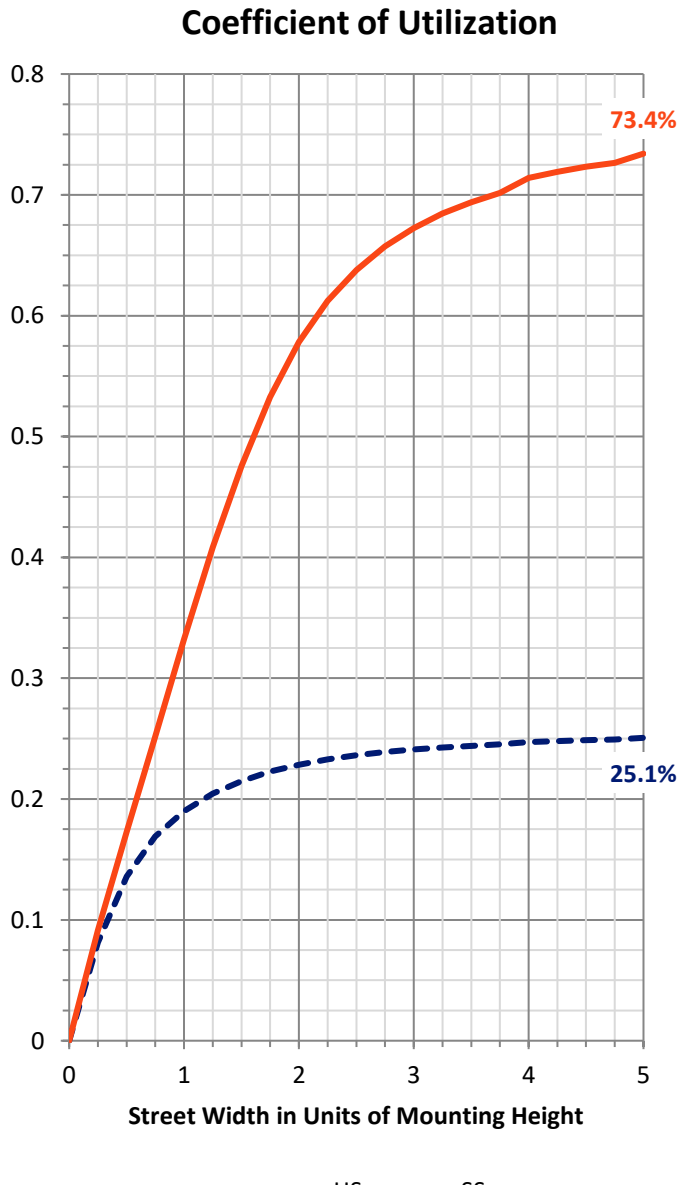
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1433.7 | 0.0 | 1433.7 |
| | % Fixture | 25.4 | 0.0 | 25.4 |
| **Street Side** | Lumens | 4207.3 | 0.0 | 4207.3 |
| | % Fixture | 74.6 | 0.0 | 74.6 |
| **Total** | Lumens | 5641.0 | 0.0 | 5641.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 76.9 | 1.4 |
| 10°-20° | 241.6 | 4.3 |
| 20°-30° | 373.1 | 6.6 |
| 30°-40° | 472.8 | 8.4 |
| 40°-50° | 713.2 | 12.6 |
| 50°-60° | 1152.2 | 20.4 |
| 60°-70° | 1436.4 | 25.5 |
| 70°-80° | 941.9 | 16.7 |
| 80°-90° | 232.9 | 4.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5641.0 | 100.0 |
| 0°-180° | 5641.0 | 100.0 |



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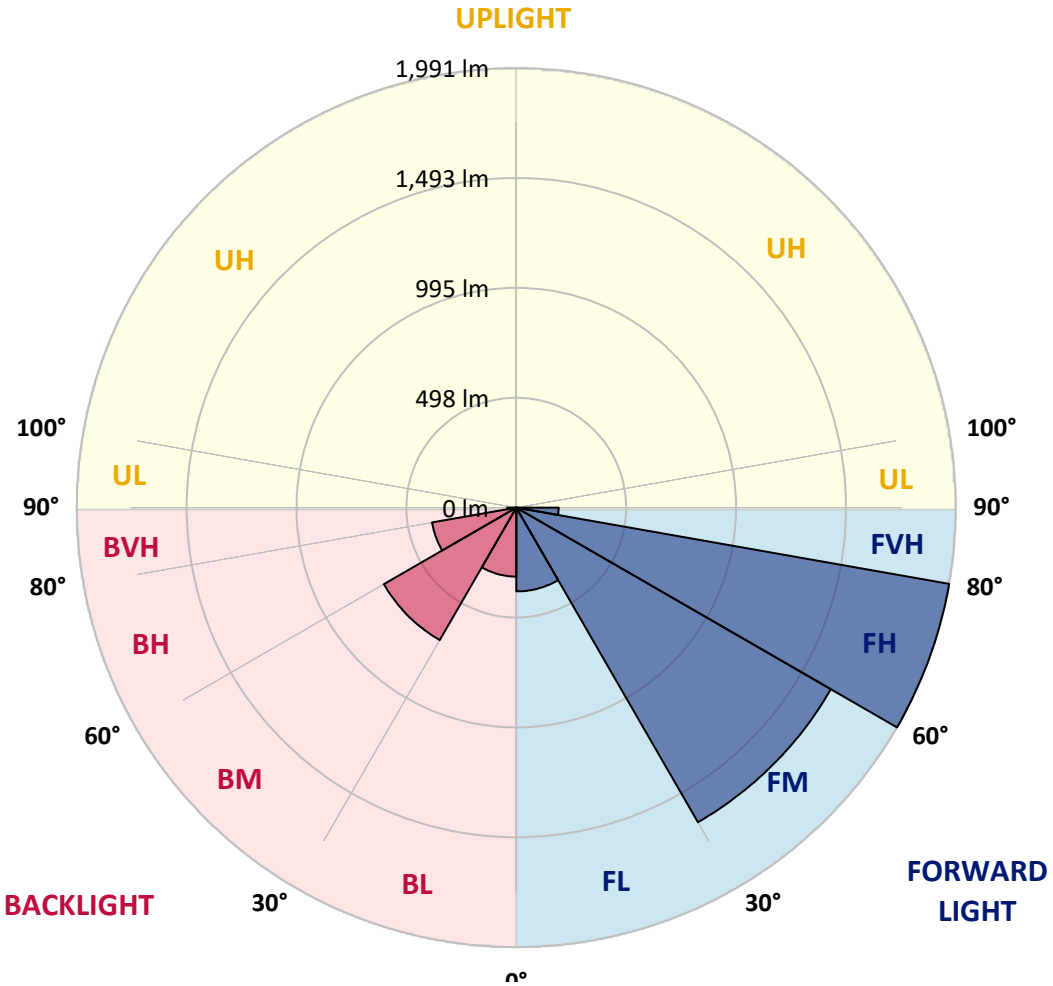
Scaled Data Report

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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°) | 379.4 | 6.7 | | | |
| FM | (30°-60°) | 1645.4 | 29.2 | | | |
| FH | (60°-80°) | 1990.7 | 35.3 | | | G2/5000 |
| FVH | (80°-90°) | 191.8 | 3.4 | | | G2/225 |
| BL | (0°-30°) | 312.2 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 692.8 | 12.3 | B1/1000 | | |
| BH | (60°-80°) | 387.6 | 6.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 41.0 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 834.2 | 827.8 | 821.4 | 814.6 | 807.8 | 800.9 | 794.1 | 787.5 | 781.0 | 774.6 | 767.6 |
| 5° | 897.0 | 882.8 | 868.7 | 854.6 | 840.5 | 826.3 | 812.1 | 798.9 | 785.7 | 773.2 | 760.8 |
| 7.5° | 960.1 | 936.7 | 913.4 | 891.9 | 870.3 | 849.4 | 828.4 | 809.9 | 791.4 | 774.3 | 758.4 |
| 10° | 1008.5 | 979.0 | 949.5 | 921.0 | 892.5 | 867.0 | 841.5 | 819.7 | 797.8 | 776.7 | 759.6 |
| 12.5° | 1038.1 | 1005.7 | 973.3 | 941.0 | 908.7 | 878.7 | 848.6 | 823.9 | 799.1 | 777.0 | 761.0 |
| 15° | 1056.1 | 1022.3 | 988.5 | 953.5 | 918.5 | 883.9 | 849.3 | 820.6 | 792.0 | 767.5 | 754.7 |
| 17.5° | 1066.2 | 1031.9 | 997.7 | 959.5 | 921.3 | 881.1 | 840.9 | 806.5 | 772.1 | 743.2 | 735.4 |
| 20° | 1077.4 | 1041.8 | 1006.1 | 964.2 | 922.2 | 873.5 | 824.8 | 782.1 | 739.4 | 705.9 | 703.8 |
| 22.5° | 1090.3 | 1053.9 | 1017.5 | 970.5 | 923.4 | 864.1 | 804.9 | 753.5 | 702.1 | 663.9 | 668.0 |
| 25° | 1107.0 | 1071.3 | 1035.7 | 981.9 | 928.1 | 854.9 | 781.8 | 721.6 | 661.4 | 622.2 | 633.3 |
| 27.5° | 1129.6 | 1095.6 | 1061.6 | 999.8 | 937.9 | 848.8 | 759.6 | 692.4 | 625.1 | 589.5 | 602.9 |
| 30° | 1160.1 | 1127.2 | 1094.4 | 1022.9 | 951.4 | 845.9 | 740.3 | 668.0 | 595.6 | 565.7 | 576.2 |
| 32.5° | 1196.1 | 1163.6 | 1131.1 | 1047.0 | 963.0 | 842.3 | 721.6 | 646.9 | 572.2 | 548.1 | 552.8 |
| 35° | 1239.9 | 1208.7 | 1177.6 | 1074.5 | 971.5 | 835.6 | 699.7 | 626.2 | 552.7 | 532.7 | 530.7 |
| 37.5° | 1313.5 | 1273.8 | 1234.1 | 1105.3 | 976.5 | 824.1 | 671.6 | 601.9 | 532.2 | 514.6 | 507.6 |
| 40° | 1424.9 | 1367.0 | 1309.1 | 1144.4 | 979.7 | 808.2 | 636.7 | 572.8 | 509.0 | 493.1 | 482.2 |
| 42.5° | 1572.5 | 1489.0 | 1405.5 | 1195.6 | 985.8 | 791.8 | 597.9 | 540.8 | 483.6 | 469.0 | 455.3 |
| 45° | 1754.8 | 1642.2 | 1529.5 | 1262.9 | 996.4 | 776.6 | 556.9 | 506.7 | 456.6 | 441.7 | 428.5 |
| 47.5° | 1982.8 | 1824.3 | 1665.7 | 1334.7 | 1003.7 | 764.0 | 524.4 | 479.8 | 435.2 | 416.0 | 404.6 |
| 50° | 2281.7 | 2042.6 | 1803.5 | 1401.2 | 998.9 | 750.4 | 501.8 | 461.9 | 422.0 | 396.8 | 383.5 |
| 52.5° | 2624.7 | 2272.0 | 1919.3 | 1444.5 | 969.6 | 727.2 | 484.9 | 450.1 | 415.4 | 386.4 | 367.8 |
| 55° | 2989.9 | 2475.3 | 1960.8 | 1434.9 | 909.0 | 688.9 | 468.7 | 441.6 | 414.4 | 387.4 | 359.5 |
| 57.5° | 3322.1 | 2619.5 | 1916.8 | 1367.9 | 819.0 | 634.8 | 450.6 | 431.4 | 412.3 | 388.4 | 354.5 |
| 60° | 3522.9 | 2655.5 | 1788.1 | 1243.2 | 698.2 | 564.6 | 431.1 | 416.0 | 400.9 | 385.2 | 349.8 |
| 62.5° | 3420.9 | 2503.8 | 1586.7 | 1074.5 | 562.2 | 480.7 | 399.1 | 389.1 | 379.1 | 377.1 | 344.3 |
| 65° | *3216.9* | *2289.3* | *1361.6* | *902.4* | *443.1* | *405.1* | *367.0* | *362.3* | *357.5* | *357.8* | *332.8* |
| 67.5° | 2943.5 | 2033.9 | 1124.3 | 733.8 | 343.3 | 332.4 | 321.6 | 324.3 | 326.9 | 326.2 | 312.2 |
| 70° | 2615.0 | 1755.3 | 895.5 | 577.7 | 260.0 | 263.1 | 266.2 | 278.4 | 290.7 | 290.7 | 286.0 |
| 72.5° | 2223.6 | 1453.2 | 682.8 | 441.7 | 200.6 | 209.9 | 219.2 | 236.6 | 254.0 | 256.9 | 256.9 |
| 75° | 1728.5 | 1106.9 | 485.4 | 320.6 | 155.7 | 164.2 | 172.6 | 192.1 | 211.6 | 225.0 | 223.9 |
| 77.5° | 1235.0 | 774.8 | 314.6 | 217.2 | 119.9 | 125.6 | 131.4 | 150.3 | 169.2 | 191.4 | 190.8 |
| 80° | 808.3 | 499.2 | 190.1 | 140.0 | 89.9 | 92.3 | 94.7 | 110.7 | 126.7 | 153.1 | 153.1 |
| 82.5° | 469.8 | 288.9 | 108.0 | 86.1 | 64.2 | 64.7 | 65.1 | 76.9 | 88.7 | 111.3 | 112.6 |
| 85° | 206.7 | 130.0 | 53.2 | 46.0 | 38.8 | 38.6 | 38.4 | 47.0 | 55.7 | 72.5 | 74.1 |
| 87.5° | 64.0 | 42.6 | 21.1 | 19.1 | 17.0 | 16.8 | 16.6 | 20.1 | 23.7 | 30.7 | 32.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 761.9 | 756.2 | 751.0 | 745.9 | 741.4 | 736.9 | 732.4 | 727.9 | 724.4 | 720.9 | 718.1 |
| 5° | 750.0 | 739.2 | 730.2 | 721.2 | 713.2 | 705.2 | 698.0 | 690.7 | 685.1 | 679.5 | 675.6 |
| 7.5° | 744.0 | 729.7 | 717.8 | 705.9 | 695.9 | 685.8 | 676.9 | 668.1 | 661.4 | 654.8 | 650.2 |
| 10° | 744.4 | 729.3 | 717.4 | 705.5 | 694.7 | 683.9 | 673.9 | 663.9 | 656.0 | 648.1 | 642.9 |
| 12.5° | 748.7 | 736.3 | 728.4 | 720.6 | 712.0 | 703.6 | 693.3 | 683.0 | 672.8 | 662.7 | 656.0 |
| 15° | 748.8 | 742.9 | 744.0 | 745.0 | 742.8 | 740.6 | 731.7 | 722.7 | 708.3 | 693.9 | 683.7 |
| 17.5° | 737.5 | 739.7 | 752.6 | 765.6 | 772.5 | 779.4 | 772.2 | 765.0 | 745.9 | 726.8 | 711.8 |
| 20° | 713.9 | 724.0 | 746.6 | 769.1 | 783.6 | 798.0 | 794.7 | 791.3 | 769.5 | 747.7 | 729.3 |
| 22.5° | 683.0 | 697.9 | 723.7 | 749.4 | 768.2 | 787.0 | 789.0 | 791.0 | 770.2 | 749.3 | 730.4 |
| 25° | 650.5 | 667.8 | 690.9 | 714.1 | 732.6 | 751.0 | 757.9 | 764.8 | 747.7 | 730.7 | 713.8 |
| 27.5° | 619.6 | 636.2 | 655.3 | 674.2 | 689.1 | 703.9 | 711.6 | 719.3 | 707.1 | 695.0 | 681.9 |
| 30° | 589.4 | 602.7 | 618.5 | 634.2 | 646.5 | 658.9 | 665.1 | 671.4 | 662.1 | 652.8 | 643.5 |
| 32.5° | 560.6 | 568.5 | 581.1 | 593.7 | 605.5 | 617.3 | 624.2 | 631.2 | 622.7 | 614.1 | 606.6 |
| 35° | 532.9 | 535.0 | 544.6 | 554.2 | 565.9 | 577.6 | 585.9 | 594.3 | 588.2 | 582.2 | 575.2 |
| 37.5° | 505.2 | 502.8 | 509.7 | 516.6 | 528.2 | 539.9 | 550.2 | 560.5 | 557.7 | 554.9 | 548.5 |
| 40° | 476.8 | 471.4 | 476.4 | 481.4 | 492.6 | 503.9 | 515.7 | 527.6 | 528.3 | 528.9 | 523.5 |
| 42.5° | 448.1 | 441.0 | 445.0 | 449.1 | 459.8 | 470.4 | 483.2 | 496.0 | 499.5 | 502.9 | 498.3 |
| 45° | 421.5 | 414.6 | 418.0 | 421.4 | 431.5 | 441.7 | 454.9 | 468.2 | 473.1 | 478.0 | 473.9 |
| 47.5° | 398.7 | 392.9 | 396.1 | 399.3 | 409.2 | 419.1 | 432.2 | 445.3 | 450.9 | 456.6 | 453.7 |
| 50° | 378.3 | 373.2 | 378.2 | 383.2 | 392.6 | 401.9 | 413.6 | 425.3 | 432.6 | 439.9 | 439.7 |
| 52.5° | 362.7 | 357.6 | 365.2 | 372.7 | 381.2 | 389.8 | 400.7 | 411.7 | 420.3 | 428.9 | 430.4 |
| 55° | 351.4 | 343.3 | 354.0 | 364.7 | 373.9 | 383.1 | 392.7 | 402.3 | 411.4 | 420.5 | 422.7 |
| 57.5° | 342.7 | 330.9 | 342.4 | 353.9 | 364.7 | 375.6 | 385.0 | 394.5 | 403.7 | 412.9 | 415.1 |
| 60° | 334.5 | 319.2 | 329.3 | 339.4 | 351.8 | 364.3 | 373.9 | 383.5 | 392.8 | 402.0 | 404.4 |
| 62.5° | 325.2 | 306.1 | 312.5 | 318.9 | 333.4 | 348.0 | 358.2 | 368.5 | 376.9 | 385.4 | 387.7 |
| 65° | *312.5* | *292.1* | *294.6* | *297.1* | *312.6* | *328.2* | *338.0* | *347.8* | *355.2* | *362.7* | *365.0* |
| 67.5° | 295.3 | 278.4 | 277.6 | 276.8 | 291.2 | 305.5 | 314.9 | 324.1 | 330.6 | 337.0 | 339.3 |
| 70° | 274.0 | 262.0 | 259.3 | 256.6 | 269.3 | 281.9 | 289.9 | 298.0 | 303.8 | 309.6 | 311.8 |
| 72.5° | 248.7 | 240.4 | 236.5 | 232.6 | 242.6 | 252.5 | 259.7 | 267.0 | 272.7 | 278.4 | 281.0 |
| 75° | 217.6 | 211.2 | 207.4 | 203.7 | 211.0 | 218.4 | 225.0 | 231.6 | 236.8 | 241.9 | 244.7 |
| 77.5° | 185.7 | 180.6 | 176.8 | 173.0 | 179.0 | 185.0 | 190.6 | 196.3 | 201.7 | 207.2 | 209.7 |
| 80° | 148.8 | 144.5 | 141.3 | 138.1 | 143.1 | 148.1 | 152.8 | 157.6 | 161.7 | 165.9 | 169.2 |
| 82.5° | 110.5 | 108.4 | 106.1 | 103.9 | 103.5 | 103.0 | 101.4 | 99.7 | 108.5 | 117.3 | 123.1 |
| 85° | 71.9 | 69.7 | 67.1 | 64.6 | 62.4 | 60.3 | 55.7 | 51.0 | 59.3 | 67.6 | 74.7 |
| 87.5° | 31.8 | 31.0 | 30.5 | 30.0 | 29.9 | 29.8 | 26.3 | 22.8 | 26.2 | 29.7 | 32.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 715.3 | 713.1 | 710.9 | 708.8 | 706.8 | 704.2 | 706.8 | 708.8 | 710.9 | 713.1 | 715.3 |
| 5° | 671.7 | 669.0 | 666.2 | 664.1 | 662.0 | 659.9 | 662.0 | 664.1 | 666.2 | 669.0 | 671.7 |
| 7.5° | 645.6 | 642.4 | 639.2 | 637.3 | 635.4 | 634.0 | 635.4 | 637.3 | 639.2 | 642.4 | 645.6 |
| 10° | 637.6 | 634.6 | 631.6 | 630.0 | 628.4 | 627.8 | 628.4 | 630.0 | 631.6 | 634.6 | 637.6 |
| 12.5° | 649.3 | 646.0 | 642.6 | 641.3 | 639.9 | 639.7 | 639.9 | 641.3 | 642.6 | 646.0 | 649.3 |
| 15° | 673.5 | 668.9 | 664.2 | 662.4 | 660.6 | 660.5 | 660.6 | 662.4 | 664.2 | 668.9 | 673.5 |
| 17.5° | 696.8 | 689.9 | 683.0 | 680.7 | 678.4 | 678.1 | 678.4 | 680.7 | 683.0 | 689.9 | 696.8 |
| 20° | 710.9 | 702.1 | 693.2 | 690.4 | 687.6 | 686.7 | 687.6 | 690.4 | 693.2 | 702.1 | 710.9 |
| 22.5° | 711.5 | 702.1 | 692.8 | 689.7 | 686.5 | 685.2 | 686.5 | 689.7 | 692.8 | 702.1 | 711.5 |
| 25° | 697.0 | 688.9 | 680.9 | 677.9 | 675.0 | 673.3 | 675.0 | 677.9 | 680.9 | 688.9 | 697.0 |
| 27.5° | 668.8 | 663.4 | 658.0 | 656.6 | 655.3 | 654.8 | 655.3 | 656.6 | 658.0 | 663.4 | 668.8 |
| 30° | 634.1 | 631.3 | 628.5 | 628.5 | 628.5 | 628.9 | 628.5 | 628.5 | 628.5 | 631.3 | 634.1 |
| 32.5° | 599.2 | 597.4 | 595.5 | 595.8 | 596.1 | 596.5 | 596.1 | 595.8 | 595.5 | 597.4 | 599.2 |
| 35° | 568.4 | 565.6 | 562.9 | 562.3 | 561.7 | 561.4 | 561.7 | 562.3 | 562.9 | 565.6 | 568.4 |
| 37.5° | 542.2 | 537.1 | 532.1 | 529.5 | 526.8 | 525.4 | 526.8 | 529.5 | 532.1 | 537.1 | 542.2 |
| 40° | 518.2 | 510.8 | 503.6 | 498.6 | 493.7 | 490.8 | 493.7 | 498.6 | 503.6 | 510.8 | 518.2 |
| 42.5° | 493.8 | 484.7 | 475.7 | 468.5 | 461.3 | 456.6 | 461.3 | 468.5 | 475.7 | 484.7 | 493.8 |
| 45° | 469.8 | 459.5 | 449.1 | 440.7 | 432.3 | 426.8 | 432.3 | 440.7 | 449.1 | 459.5 | 469.8 |
| 47.5° | 450.9 | 441.7 | 432.4 | 424.6 | 416.9 | 411.7 | 416.9 | 424.6 | 432.4 | 441.7 | 450.9 |
| 50° | 439.6 | 432.2 | 424.8 | 417.6 | 410.4 | 405.4 | 410.4 | 417.6 | 424.8 | 432.2 | 439.6 |
| 52.5° | 432.0 | 425.9 | 419.9 | 413.5 | 407.0 | 402.4 | 407.0 | 413.5 | 419.9 | 425.9 | 432.0 |
| 55° | 424.8 | 419.6 | 414.3 | 408.7 | 403.0 | 398.9 | 403.0 | 408.7 | 414.3 | 419.6 | 424.8 |
| 57.5° | 417.3 | 412.0 | 406.7 | 401.1 | 395.4 | 391.1 | 395.4 | 401.1 | 406.7 | 412.0 | 417.3 |
| 60° | 406.7 | 401.6 | 396.4 | 390.6 | 384.9 | 380.4 | 384.9 | 390.6 | 396.4 | 401.6 | 406.7 |
| 62.5° | 390.0 | 385.3 | 380.6 | 374.6 | 368.5 | 363.1 | 368.5 | 374.6 | 380.6 | 385.3 | 390.0 |
| 65° | *367.4* | *362.9* | *358.4* | *352.5* | *346.6* | *342.0* | *346.6* | *352.5* | *358.4* | *362.9* | *367.4* |
| 67.5° | 341.6 | 337.4 | 333.3 | 327.8 | 322.4 | 318.2 | 322.4 | 327.8 | 333.3 | 337.4 | 341.6 |
| 70° | 314.0 | 310.6 | 307.2 | 302.0 | 296.8 | 292.0 | 296.8 | 302.0 | 307.2 | 310.6 | 314.0 |
| 72.5° | 283.6 | 280.8 | 278.0 | 273.0 | 268.0 | 263.4 | 268.0 | 273.0 | 278.0 | 280.8 | 283.6 |
| 75° | 247.4 | 246.0 | 244.7 | 240.5 | 236.3 | 231.9 | 236.3 | 240.5 | 244.7 | 246.0 | 247.4 |
| 77.5° | 212.3 | 210.4 | 208.4 | 204.2 | 200.0 | 196.5 | 200.0 | 204.2 | 208.4 | 210.4 | 212.3 |
| 80° | 172.6 | 171.8 | 171.0 | 165.3 | 159.6 | 153.0 | 159.6 | 165.3 | 171.0 | 171.8 | 172.6 |
| 82.5° | 128.9 | 128.5 | 128.1 | 123.3 | 118.5 | 114.3 | 118.5 | 123.3 | 128.1 | 128.5 | 128.9 |
| 85° | 81.9 | 81.3 | 80.7 | 76.9 | 73.2 | 69.4 | 73.2 | 76.9 | 80.7 | 81.3 | 81.9 |
| 87.5° | 35.5 | 34.8 | 34.0 | 32.1 | 30.1 | 28.3 | 30.1 | 32.1 | 34.0 | 34.8 | 35.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report

REPORT NUMBER: P1201489
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**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 718.1 | 720.9 | 724.4 | 727.9 | 732.4 | 736.9 | 741.4 | 745.9 | 751.0 | 756.2 | 761.9 |
| 5° | 675.6 | 679.5 | 685.1 | 690.7 | 698.0 | 705.2 | 713.2 | 721.2 | 730.2 | 739.2 | 750.0 |
| 7.5° | 650.2 | 654.8 | 661.4 | 668.1 | 676.9 | 685.8 | 695.9 | 705.9 | 717.8 | 729.7 | 744.0 |
| 10° | 642.9 | 648.1 | 656.0 | 663.9 | 673.9 | 683.9 | 694.7 | 705.5 | 717.4 | 729.3 | 744.4 |
| 12.5° | 656.0 | 662.7 | 672.8 | 683.0 | 693.3 | 703.6 | 712.0 | 720.6 | 728.4 | 736.3 | 748.7 |
| 15° | 683.7 | 693.9 | 708.3 | 722.7 | 731.7 | 740.6 | 742.8 | 745.0 | 744.0 | 742.9 | 748.8 |
| 17.5° | 711.8 | 726.8 | 745.9 | 765.0 | 772.2 | 779.4 | 772.5 | 765.6 | 752.6 | 739.7 | 737.5 |
| 20° | 729.3 | 747.7 | 769.5 | 791.3 | 794.7 | 798.0 | 783.6 | 769.1 | 746.6 | 724.0 | 713.9 |
| 22.5° | 730.4 | 749.3 | 770.2 | 791.0 | 789.0 | 787.0 | 768.2 | 749.4 | 723.7 | 697.9 | 683.0 |
| 25° | 713.8 | 730.7 | 747.7 | 764.8 | 757.9 | 751.0 | 732.6 | 714.1 | 690.9 | 667.8 | 650.5 |
| 27.5° | 681.9 | 695.0 | 707.1 | 719.3 | 711.6 | 703.9 | 689.1 | 674.2 | 655.3 | 636.2 | 619.6 |
| 30° | 643.5 | 652.8 | 662.1 | 671.4 | 665.1 | 658.9 | 646.5 | 634.2 | 618.5 | 602.7 | 589.4 |
| 32.5° | 606.6 | 614.1 | 622.7 | 631.2 | 624.2 | 617.3 | 605.5 | 593.7 | 581.1 | 568.5 | 560.6 |
| 35° | 575.2 | 582.2 | 588.2 | 594.3 | 585.9 | 577.6 | 565.9 | 554.2 | 544.6 | 535.0 | 532.9 |
| 37.5° | 548.5 | 554.9 | 557.7 | 560.5 | 550.2 | 539.9 | 528.2 | 516.6 | 509.7 | 502.8 | 505.2 |
| 40° | 523.5 | 528.9 | 528.3 | 527.6 | 515.7 | 503.9 | 492.6 | 481.4 | 476.4 | 471.4 | 476.8 |
| 42.5° | 498.3 | 502.9 | 499.5 | 496.0 | 483.2 | 470.4 | 459.8 | 449.1 | 445.0 | 441.0 | 448.1 |
| 45° | 473.9 | 478.0 | 473.1 | 468.2 | 454.9 | 441.7 | 431.5 | 421.4 | 418.0 | 414.6 | 421.5 |
| 47.5° | 453.7 | 456.6 | 450.9 | 445.3 | 432.2 | 419.1 | 409.2 | 399.3 | 396.1 | 392.9 | 398.7 |
| 50° | 439.7 | 439.9 | 432.6 | 425.3 | 413.6 | 401.9 | 392.6 | 383.2 | 378.2 | 373.2 | 378.3 |
| 52.5° | 430.4 | 428.9 | 420.3 | 411.7 | 400.7 | 389.8 | 381.2 | 372.7 | 365.2 | 357.6 | 362.7 |
| 55° | 422.7 | 420.5 | 411.4 | 402.3 | 392.7 | 383.1 | 373.9 | 364.7 | 354.0 | 343.3 | 351.4 |
| 57.5° | 415.1 | 412.9 | 403.7 | 394.5 | 385.0 | 375.6 | 364.7 | 353.9 | 342.4 | 330.9 | 342.7 |
| 60° | 404.4 | 402.0 | 392.8 | 383.5 | 373.9 | 364.3 | 351.8 | 339.4 | 329.3 | 319.2 | 334.5 |
| 62.5° | 387.7 | 385.4 | 376.9 | 368.5 | 358.2 | 348.0 | 333.4 | 318.9 | 312.5 | 306.1 | 325.2 |
| 65° | *365.0* | *362.7* | *355.2* | *347.8* | *338.0* | *328.2* | *312.6* | *297.1* | *294.6* | *292.1* | *312.5* |
| 67.5° | 339.3 | 337.0 | 330.6 | 324.1 | 314.9 | 305.5 | 291.2 | 276.8 | 277.6 | 278.4 | 295.3 |
| 70° | 311.8 | 309.6 | 303.8 | 298.0 | 289.9 | 281.9 | 269.3 | 256.6 | 259.3 | 262.0 | 274.0 |
| 72.5° | 281.0 | 278.4 | 272.7 | 267.0 | 259.7 | 252.5 | 242.6 | 232.6 | 236.5 | 240.4 | 248.7 |
| 75° | 244.7 | 241.9 | 236.8 | 231.6 | 225.0 | 218.4 | 211.0 | 203.7 | 207.4 | 211.2 | 217.6 |
| 77.5° | 209.7 | 207.2 | 201.7 | 196.3 | 190.6 | 185.0 | 179.0 | 173.0 | 176.8 | 180.6 | 185.7 |
| 80° | 169.2 | 165.9 | 161.7 | 157.6 | 152.8 | 148.1 | 143.1 | 138.1 | 141.3 | 144.5 | 148.8 |
| 82.5° | 123.1 | 117.3 | 108.5 | 99.7 | 101.4 | 103.0 | 103.5 | 103.9 | 106.1 | 108.4 | 110.5 |
| 85° | 74.7 | 67.6 | 59.3 | 51.0 | 55.7 | 60.3 | 62.4 | 64.6 | 67.1 | 69.7 | 71.9 |
| 87.5° | 32.6 | 29.7 | 26.2 | 22.8 | 26.3 | 29.8 | 29.9 | 30.0 | 30.5 | 31.0 | 31.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 767.6 | 774.6 | 781.0 | 787.5 | 794.1 | 800.9 | 807.8 | 814.6 | 821.4 | 827.8 | 834.2 |
| 5° | 760.8 | 773.2 | 785.7 | 798.9 | 812.1 | 826.3 | 840.5 | 854.6 | 868.7 | 882.8 | 897.0 |
| 7.5° | 758.4 | 774.3 | 791.4 | 809.9 | 828.4 | 849.4 | 870.3 | 891.9 | 913.4 | 936.7 | 960.1 |
| 10° | 759.6 | 776.7 | 797.8 | 819.7 | 841.5 | 867.0 | 892.5 | 921.0 | 949.5 | 979.0 | 1008.5 |
| 12.5° | 761.0 | 777.0 | 799.1 | 823.9 | 848.6 | 878.7 | 908.7 | 941.0 | 973.3 | 1005.7 | 1038.1 |
| 15° | 754.7 | 767.5 | 792.0 | 820.6 | 849.3 | 883.9 | 918.5 | 953.5 | 988.5 | 1022.3 | 1056.1 |
| 17.5° | 735.4 | 743.2 | 772.1 | 806.5 | 840.9 | 881.1 | 921.3 | 959.5 | 997.7 | 1031.9 | 1066.2 |
| 20° | 703.8 | 705.9 | 739.4 | 782.1 | 824.8 | 873.5 | 922.2 | 964.2 | 1006.1 | 1041.8 | 1077.4 |
| 22.5° | 668.0 | 663.9 | 702.1 | 753.5 | 804.9 | 864.1 | 923.4 | 970.5 | 1017.5 | 1053.9 | 1090.3 |
| 25° | 633.3 | 622.2 | 661.4 | 721.6 | 781.8 | 854.9 | 928.1 | 981.9 | 1035.7 | 1071.3 | 1107.0 |
| 27.5° | 602.9 | 589.5 | 625.1 | 692.4 | 759.6 | 848.8 | 937.9 | 999.8 | 1061.6 | 1095.6 | 1129.6 |
| 30° | 576.2 | 565.7 | 595.6 | 668.0 | 740.3 | 845.9 | 951.4 | 1022.9 | 1094.4 | 1127.2 | 1160.1 |
| 32.5° | 552.8 | 548.1 | 572.2 | 646.9 | 721.6 | 842.3 | 963.0 | 1047.0 | 1131.1 | 1163.6 | 1196.1 |
| 35° | 530.7 | 532.7 | 552.7 | 626.2 | 699.7 | 835.6 | 971.5 | 1074.5 | 1177.6 | 1208.7 | 1239.9 |
| 37.5° | 507.6 | 514.6 | 532.2 | 601.9 | 671.6 | 824.1 | 976.5 | 1105.3 | 1234.1 | 1273.8 | 1313.5 |
| 40° | 482.2 | 493.1 | 509.0 | 572.8 | 636.7 | 808.2 | 979.7 | 1144.4 | 1309.1 | 1367.0 | 1424.9 |
| 42.5° | 455.3 | 469.0 | 483.6 | 540.8 | 597.9 | 791.8 | 985.8 | 1195.6 | 1405.5 | 1489.0 | 1572.5 |
| 45° | 428.5 | 441.7 | 456.6 | 506.7 | 556.9 | 776.6 | 996.4 | 1262.9 | 1529.5 | 1642.2 | 1754.8 |
| 47.5° | 404.6 | 416.0 | 435.2 | 479.8 | 524.4 | 764.0 | 1003.7 | 1334.7 | 1665.7 | 1824.3 | 1982.8 |
| 50° | 383.5 | 396.8 | 422.0 | 461.9 | 501.8 | 750.4 | 998.9 | 1401.2 | 1803.5 | 2042.6 | 2281.7 |
| 52.5° | 367.8 | 386.4 | 415.4 | 450.1 | 484.9 | 727.2 | 969.6 | 1444.5 | 1919.3 | 2272.0 | 2624.7 |
| 55° | 359.5 | 387.4 | 414.4 | 441.6 | 468.7 | 688.9 | 909.0 | 1434.9 | 1960.8 | 2475.3 | 2989.9 |
| 57.5° | 354.5 | 388.4 | 412.3 | 431.4 | 450.6 | 634.8 | 819.0 | 1367.9 | 1916.8 | 2619.5 | 3322.1 |
| 60° | 349.8 | 385.2 | 400.9 | 416.0 | 431.1 | 564.6 | 698.2 | 1243.2 | 1788.1 | 2655.5 | 3522.9 |
| 62.5° | 344.3 | 377.1 | 379.1 | 389.1 | 399.1 | 480.7 | 562.2 | 1074.5 | 1586.7 | 2503.8 | 3420.9 |
| 65° | *332.8* | *357.8* | *357.5* | *362.3* | *367.0* | *405.1* | *443.1* | *902.4* | *1361.6* | *2289.3* | *3216.9* |
| 67.5° | 312.2 | 326.2 | 326.9 | 324.3 | 321.6 | 332.4 | 343.3 | 733.8 | 1124.3 | 2033.9 | 2943.5 |
| 70° | 286.0 | 290.7 | 290.7 | 278.4 | 266.2 | 263.1 | 260.0 | 577.7 | 895.5 | 1755.3 | 2615.0 |
| 72.5° | 256.9 | 256.9 | 254.0 | 236.6 | 219.2 | 209.9 | 200.6 | 441.7 | 682.8 | 1453.2 | 2223.6 |
| 75° | 223.9 | 225.0 | 211.6 | 192.1 | 172.6 | 164.2 | 155.7 | 320.6 | 485.4 | 1106.9 | 1728.5 |
| 77.5° | 190.8 | 191.4 | 169.2 | 150.3 | 131.4 | 125.6 | 119.9 | 217.2 | 314.6 | 774.8 | 1235.0 |
| 80° | 153.1 | 153.1 | 126.7 | 110.7 | 94.7 | 92.3 | 89.9 | 140.0 | 190.1 | 499.2 | 808.3 |
| 82.5° | 112.6 | 111.3 | 88.7 | 76.9 | 65.1 | 64.7 | 64.2 | 86.1 | 108.0 | 288.9 | 469.8 |
| 85° | 74.1 | 72.5 | 55.7 | 47.0 | 38.4 | 38.6 | 38.8 | 46.0 | 53.2 | 130.0 | 206.7 |
| 87.5° | 32.7 | 30.7 | 23.7 | 20.1 | 16.6 | 16.8 | 17.0 | 19.1 | 21.1 | 42.6 | 64.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | *775.7* | 775.7 | 775.7 |
| 2.5° | 837.3 | 840.5 | 845.0 | 849.5 | 852.2 | 854.9 | 856.2 | 857.5 | *856.9* | 857.5 | 856.2 |
| 5° | 908.0 | 919.1 | 930.0 | 941.0 | 947.0 | 952.9 | 956.5 | 960.2 | *962.9* | 960.2 | 956.5 |
| 7.5° | 978.1 | 996.0 | 1012.2 | 1028.3 | 1038.1 | 1047.8 | 1053.1 | 1058.3 | *1060.8* | 1058.3 | 1053.1 |
| 10° | 1029.7 | 1051.0 | 1069.9 | 1088.9 | 1100.4 | 1111.8 | 1116.9 | 1122.0 | *1123.9* | 1122.0 | 1116.9 |
| 12.5° | 1061.1 | 1084.1 | 1101.3 | 1118.3 | 1126.7 | 1135.0 | 1137.8 | 1140.6 | *1140.9* | 1140.6 | 1137.8 |
| 15° | 1076.0 | 1095.8 | 1106.6 | 1117.3 | 1117.6 | 1117.9 | 1115.0 | 1112.0 | *1108.5* | 1112.0 | 1115.0 |
| 17.5° | 1079.6 | 1093.0 | 1093.3 | 1093.4 | 1081.4 | 1069.3 | 1058.3 | 1047.2 | *1039.4* | 1047.2 | 1058.3 |
| 20° | 1082.0 | 1086.7 | 1072.6 | 1058.5 | 1031.8 | 1005.2 | 985.9 | 966.5 | *954.6* | 966.5 | 985.9 |
| 22.5° | 1084.2 | 1078.0 | 1048.8 | 1019.5 | 980.3 | 941.2 | 917.0 | 892.7 | *879.6* | 892.7 | 917.0 |
| 25° | 1087.6 | 1068.3 | 1023.8 | 979.3 | 931.8 | 884.3 | 858.8 | 833.4 | *820.9* | 833.4 | 858.8 |
| 27.5° | 1095.0 | 1060.4 | 1001.5 | 942.6 | 889.9 | 837.2 | 812.2 | 787.1 | *775.4* | 787.1 | 812.2 |
| 30° | 1108.5 | 1057.0 | 984.5 | 912.0 | 857.1 | 802.2 | 778.9 | 755.7 | *744.7* | 755.7 | 778.9 |
| 32.5° | 1125.5 | 1054.9 | 972.9 | 890.8 | 839.2 | 787.7 | 769.4 | 751.1 | *743.2* | 751.1 | 769.4 |
| 35° | 1153.4 | 1067.0 | 981.5 | 896.1 | 860.2 | 824.4 | 820.2 | 815.9 | *815.3* | 815.9 | 820.2 |
| 37.5° | 1211.9 | 1110.2 | 1032.5 | 954.8 | 952.5 | 950.2 | 969.6 | 989.1 | *999.2* | 989.1 | 969.6 |
| 40° | 1314.3 | 1203.7 | 1145.9 | 1088.2 | 1128.9 | 1169.7 | 1217.0 | 1264.4 | *1287.9* | 1264.4 | 1217.0 |
| 42.5° | 1462.8 | 1353.1 | 1319.8 | 1286.5 | 1375.5 | 1464.4 | 1550.5 | 1636.6 | *1687.1* | 1636.6 | 1550.5 |
| 45° | 1656.3 | 1557.7 | 1543.0 | 1528.3 | 1670.8 | 1813.3 | 1954.8 | 2096.2 | *2182.1* | 2096.2 | 1954.8 |
| 47.5° | 1886.9 | 1791.0 | 1788.1 | 1785.1 | 1990.6 | 2196.2 | 2403.2 | 2610.3 | *2731.9* | 2610.3 | 2403.2 |
| 50° | 2163.2 | 2044.8 | 2045.3 | 2045.8 | 2310.7 | 2575.7 | 2849.0 | 3122.3 | *3287.6* | 3122.3 | 2849.0 |
| 52.5° | 2481.3 | 2337.9 | 2323.4 | 2308.9 | 2625.3 | 2941.8 | 3280.0 | 3618.1 | *3816.2* | 3618.1 | 3280.0 |
| 55° | 2848.3 | 2706.6 | 2650.0 | 2593.5 | 2945.7 | 3297.9 | 3701.0 | 4104.2 | *4339.8* | 4104.2 | 3701.0 |
| 57.5° | 3245.0 | 3167.8 | 3054.4 | 2941.1 | 3296.7 | 3652.3 | 4108.9 | 4565.6 | *4857.7* | 4565.6 | 4108.9 |
| 60° | 3642.7 | 3762.6 | 3621.8 | 3481.0 | 3817.5 | 4154.1 | 4643.0 | 5131.9 | *5447.7* | 5131.9 | 4643.0 |
| 62.5° | 3748.4 | 4075.8 | 4060.0 | 4044.1 | 4352.4 | 4660.7 | 5125.8 | 5591.0 | *5882.8* | 5591.0 | 5125.8 |
| 65° | *3524.2* | *3831.5* | *3892.4* | *3953.1* | *4344.9* | *4736.7* | *5187.8* | *5638.8* | *5887.3* | *5638.8* | *5187.8* |
| 67.5° | 3235.8 | 3528.1 | 3556.6 | 3585.1 | 3993.3 | 4401.5 | 4854.5 | 5307.5 | *5502.1* | 5307.5 | 4854.5 |
| 70° | 2933.0 | 3250.9 | 3263.7 | 3276.4 | 3641.5 | 4006.5 | 4396.3 | 4786.1 | *4894.3* | 4786.1 | 4396.3 |
| 72.5° | 2588.5 | 2953.3 | 2962.5 | 2971.6 | 3257.2 | 3542.8 | 3834.8 | 4126.7 | *4137.7* | 4126.7 | 3834.8 |
| 75° | 2106.1 | 2483.7 | 2517.6 | 2551.5 | 2773.7 | 2995.9 | 3201.4 | 3406.9 | *3351.9* | 3406.9 | 3201.4 |
| 77.5° | 1587.4 | 1940.0 | 1988.5 | 2037.0 | 2205.9 | 2374.8 | 2520.6 | 2666.4 | *2571.7* | 2666.4 | 2520.6 |
| 80° | 1104.8 | 1401.4 | 1461.7 | 1522.0 | 1649.5 | 1777.1 | 1853.6 | 1930.1 | *1777.9* | 1930.1 | 1853.6 |
| 82.5° | 672.6 | 875.3 | 942.7 | 1010.1 | 1097.9 | 1185.7 | 1217.6 | 1249.6 | *1129.9* | 1249.6 | 1217.6 |
| 85° | 314.3 | 421.9 | 479.2 | 536.5 | 608.7 | 680.8 | 698.9 | 717.0 | *621.2* | 717.0 | 698.9 |
| 87.5° | 100.2 | 136.3 | 168.3 | 200.3 | 236.3 | 272.4 | 274.0 | 275.5 | *231.3* | 275.5 | 274.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1201489
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**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 | 775.7 |
| 2.5° | 854.9 | 852.2 | 849.5 | 845.0 | 840.5 | 837.3 | 834.2 |
| 5° | 952.9 | 947.0 | 941.0 | 930.0 | 919.1 | 908.0 | 897.0 |
| 7.5° | 1047.8 | 1038.1 | 1028.3 | 1012.2 | 996.0 | 978.1 | 960.1 |
| 10° | 1111.8 | 1100.4 | 1088.9 | 1069.9 | 1051.0 | 1029.7 | 1008.5 |
| 12.5° | 1135.0 | 1126.7 | 1118.3 | 1101.3 | 1084.1 | 1061.1 | 1038.1 |
| 15° | 1117.9 | 1117.6 | 1117.3 | 1106.6 | 1095.8 | 1076.0 | 1056.1 |
| 17.5° | 1069.3 | 1081.4 | 1093.4 | 1093.3 | 1093.0 | 1079.6 | 1066.2 |
| 20° | 1005.2 | 1031.8 | 1058.5 | 1072.6 | 1086.7 | 1082.0 | 1077.4 |
| 22.5° | 941.2 | 980.3 | 1019.5 | 1048.8 | 1078.0 | 1084.2 | 1090.3 |
| 25° | 884.3 | 931.8 | 979.3 | 1023.8 | 1068.3 | 1087.6 | 1107.0 |
| 27.5° | 837.2 | 889.9 | 942.6 | 1001.5 | 1060.4 | 1095.0 | 1129.6 |
| 30° | 802.2 | 857.1 | 912.0 | 984.5 | 1057.0 | 1108.5 | 1160.1 |
| 32.5° | 787.7 | 839.2 | 890.8 | 972.9 | 1054.9 | 1125.5 | 1196.1 |
| 35° | 824.4 | 860.2 | 896.1 | 981.5 | 1067.0 | 1153.4 | 1239.9 |
| 37.5° | 950.2 | 952.5 | 954.8 | 1032.5 | 1110.2 | 1211.9 | 1313.5 |
| 40° | 1169.7 | 1128.9 | 1088.2 | 1145.9 | 1203.7 | 1314.3 | 1424.9 |
| 42.5° | 1464.4 | 1375.5 | 1286.5 | 1319.8 | 1353.1 | 1462.8 | 1572.5 |
| 45° | 1813.3 | 1670.8 | 1528.3 | 1543.0 | 1557.7 | 1656.3 | 1754.8 |
| 47.5° | 2196.2 | 1990.6 | 1785.1 | 1788.1 | 1791.0 | 1886.9 | 1982.8 |
| 50° | 2575.7 | 2310.7 | 2045.8 | 2045.3 | 2044.8 | 2163.2 | 2281.7 |
| 52.5° | 2941.8 | 2625.3 | 2308.9 | 2323.4 | 2337.9 | 2481.3 | 2624.7 |
| 55° | 3297.9 | 2945.7 | 2593.5 | 2650.0 | 2706.6 | 2848.3 | 2989.9 |
| 57.5° | 3652.3 | 3296.7 | 2941.1 | 3054.4 | 3167.8 | 3245.0 | 3322.1 |
| 60° | 4154.1 | 3817.5 | 3481.0 | 3621.8 | 3762.6 | 3642.7 | 3522.9 |
| 62.5° | 4660.7 | 4352.4 | 4044.1 | 4060.0 | 4075.8 | 3748.4 | 3420.9 |
| 65° | *4736.7* | *4344.9* | *3953.1* | *3892.4* | *3831.5* | *3524.2* | *3216.9* |
| 67.5° | 4401.5 | 3993.3 | 3585.1 | 3556.6 | 3528.1 | 3235.8 | 2943.5 |
| 70° | 4006.5 | 3641.5 | 3276.4 | 3263.7 | 3250.9 | 2933.0 | 2615.0 |
| 72.5° | 3542.8 | 3257.2 | 2971.6 | 2962.5 | 2953.3 | 2588.5 | 2223.6 |
| 75° | 2995.9 | 2773.7 | 2551.5 | 2517.6 | 2483.7 | 2106.1 | 1728.5 |
| 77.5° | 2374.8 | 2205.9 | 2037.0 | 1988.5 | 1940.0 | 1587.4 | 1235.0 |
| 80° | 1777.1 | 1649.5 | 1522.0 | 1461.7 | 1401.4 | 1104.8 | 808.3 |
| 82.5° | 1185.7 | 1097.9 | 1010.1 | 942.7 | 875.3 | 672.6 | 469.8 |
| 85° | 680.8 | 608.7 | 536.5 | 479.2 | 421.9 | 314.3 | 206.7 |
| 87.5° | 272.4 | 236.3 | 200.3 | 168.3 | 136.3 | 100.2 | 64.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

0

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

## Test Information

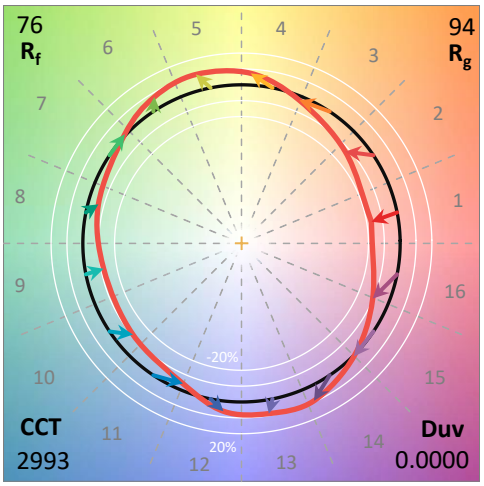
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-2-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-730-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.***TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2993 | CRI (Ra): | 71.8 | | |
| CIE u': | 0.2508 | R1: | 67.5 | R9: | -38.3 |
| CIE v': | 0.5215 | R2: | 82.9 | R10: | 62.5 |
| Duv: | 0.0000 | R3: | 94.7 | R11: | 63.7 |
| CIE x: | 0.4374 | R4: | 67.7 | R12: | 57.8 |
| CIE y: | 0.4043 | R5: | 67.9 | R13: | 70.4 |
| CIE z: | 0.1583 | R6: | 77.6 | R14: | 97.3 |
| Peak Wavelength (nm): | 593 | R7: | 76.0 | | |
| Dominant Wavelength (nm): | 582 | R8: | 40.5 | | |
| Purity: | 53 | | | | |

| | |
|---|---|
| Rf: | 75.7 |
| Rg: | 93.9 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 53M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.0./44% |
| Sphere Temperature (°C): | 25.7 |

Cooper Lighting Solutions Photometric Lab
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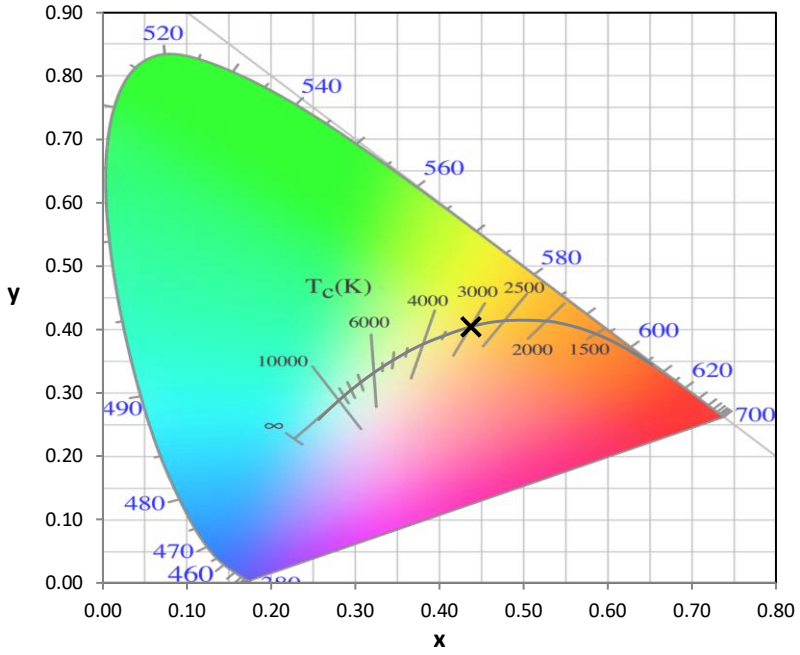
REPORT NUMBER: SP1-1908-441-2-R4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

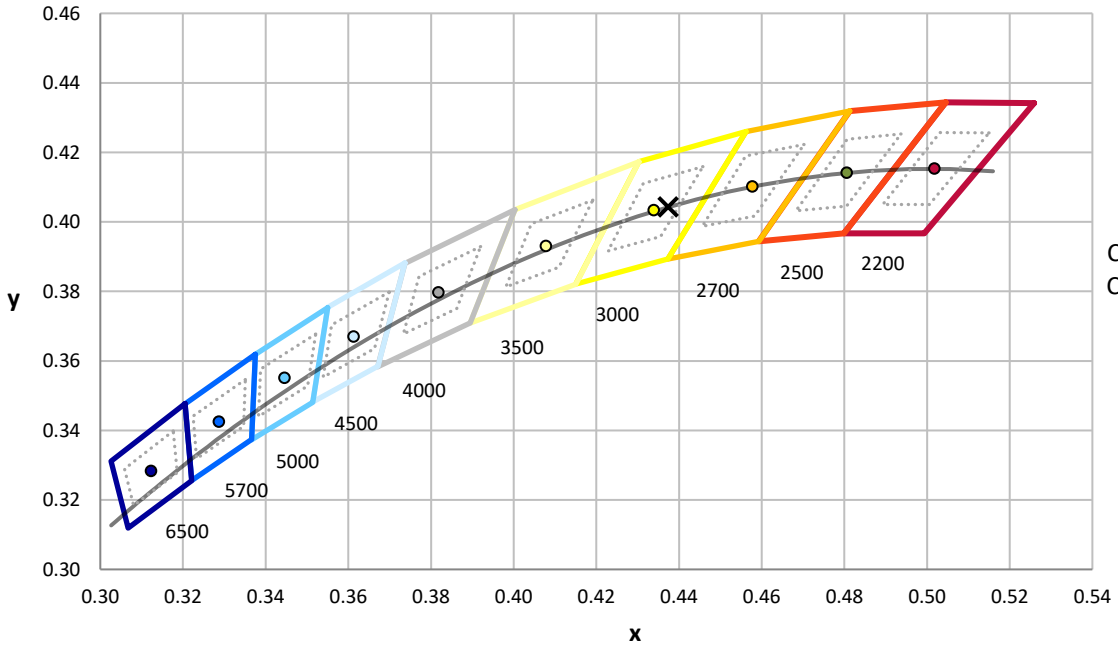
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-2-R4

## CIE 1931 Chromaticity Diagram




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



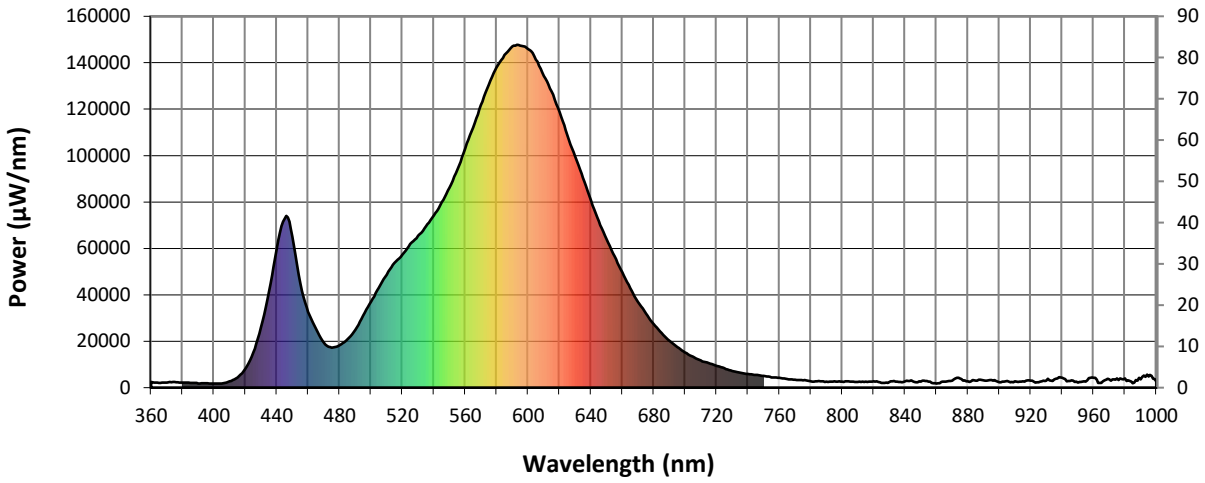

CCT = 2993K
CIE x = 0.4374
CIE y = 0.4043
Duv = 0.0000

Point lies inside the ANSI 3000K 4-step quadrangle

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## Photopic Flux vs. Wavelength



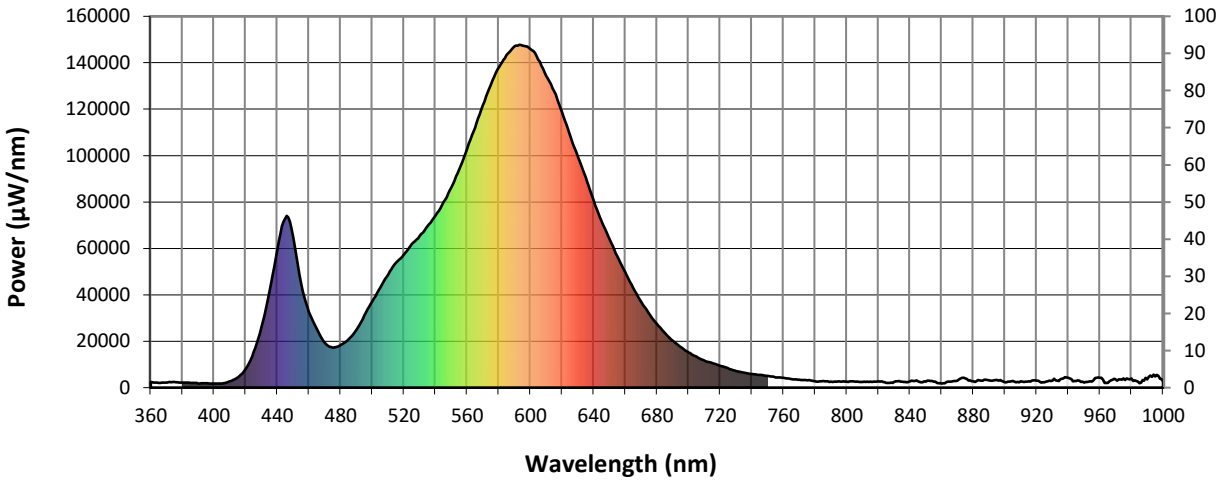

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-2-R4

## Scotopic Flux vs. Wavelength



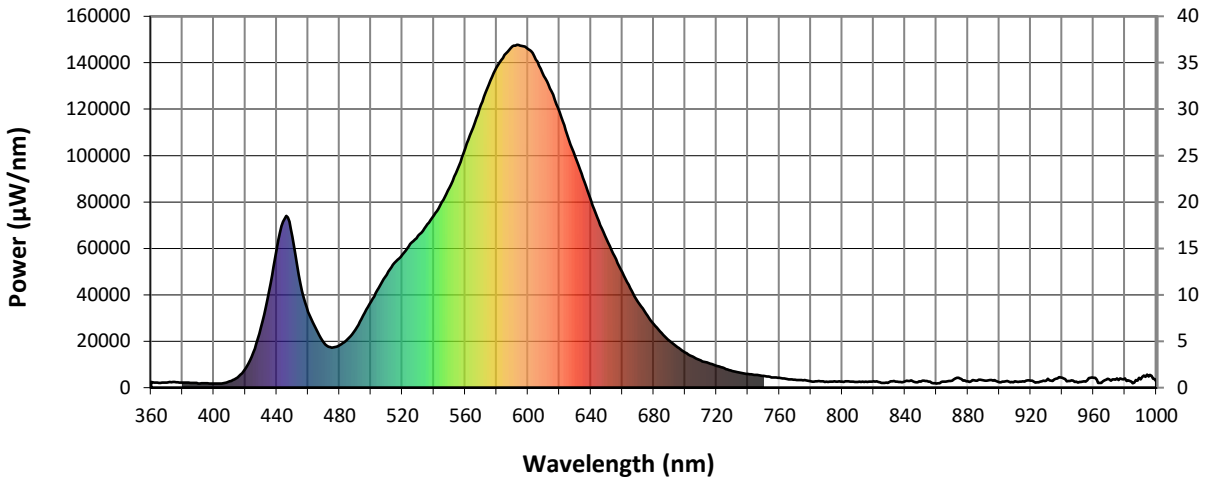

**Scotopic Lumens: 8494.8** **S/P: 1.23**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

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

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 3101.5** **M/P: 0.45**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

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

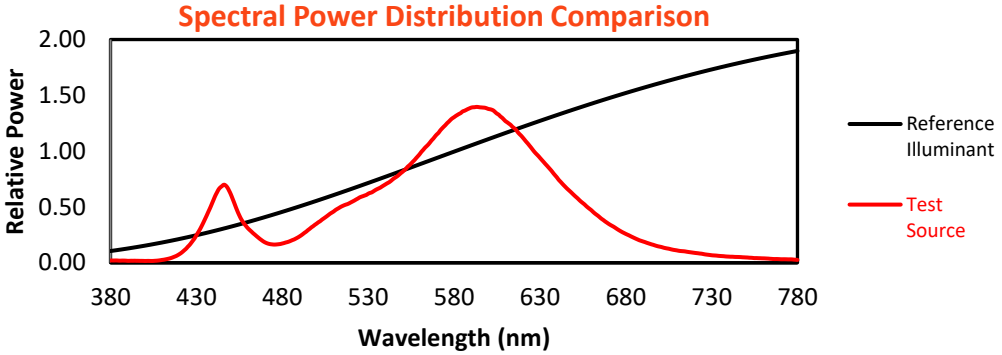
REPORT NUMBER: SP1-1908-441-2-R4

# TM-30-18

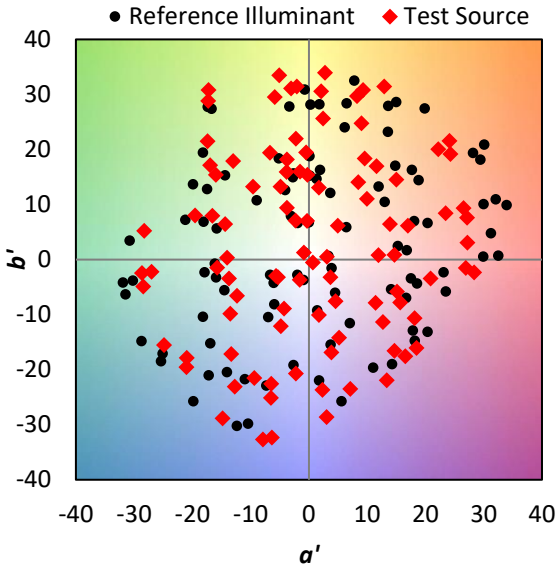
## Summary

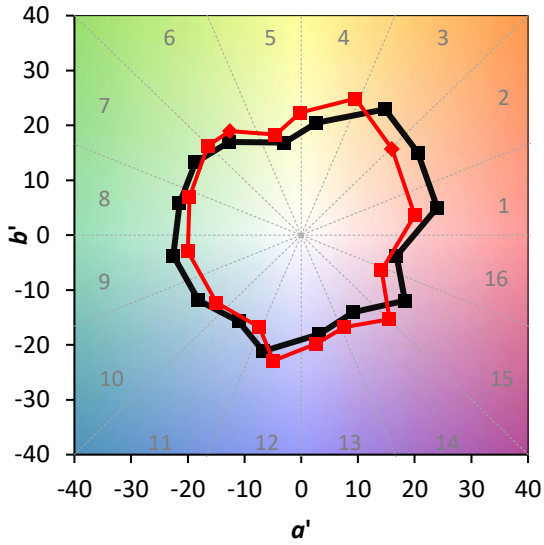
$R_f$ = 75.7
$R_g$ = 93.9
CIE $R_a$ = 71.8
$R_9$ = -38.3

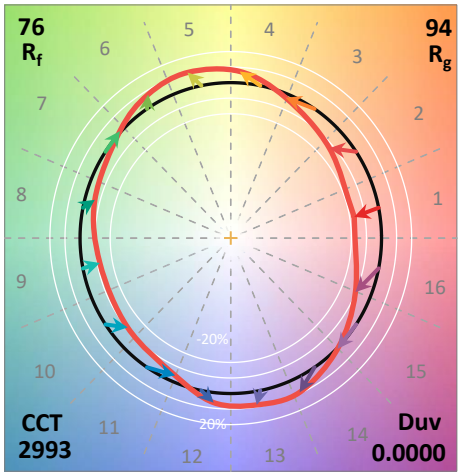
## Spectral Power Distribution Comparison

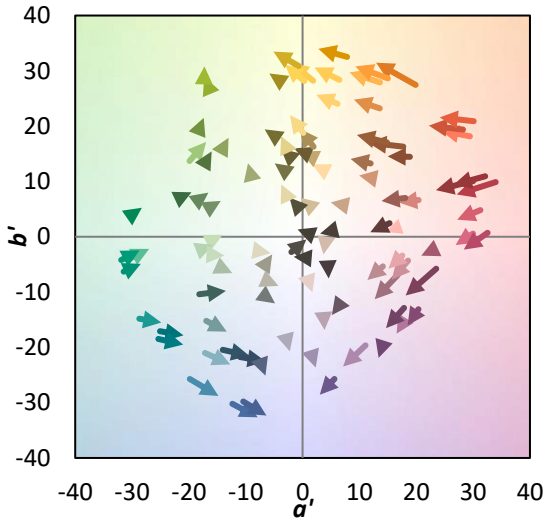



## Color Vector Graphics



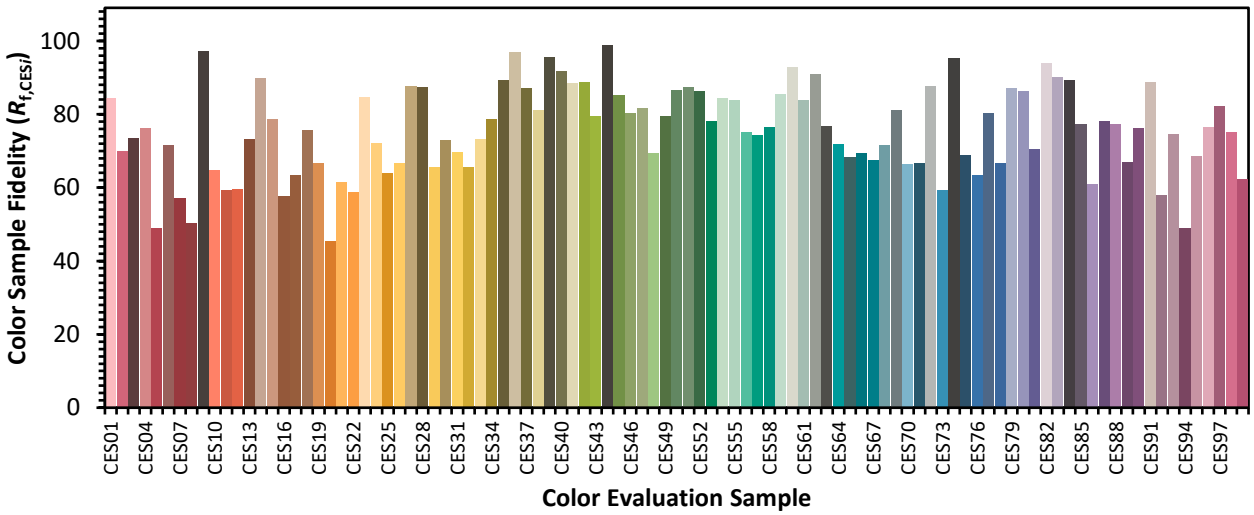
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-2-R4

## TM-30-18

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

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
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| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
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| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
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| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
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| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
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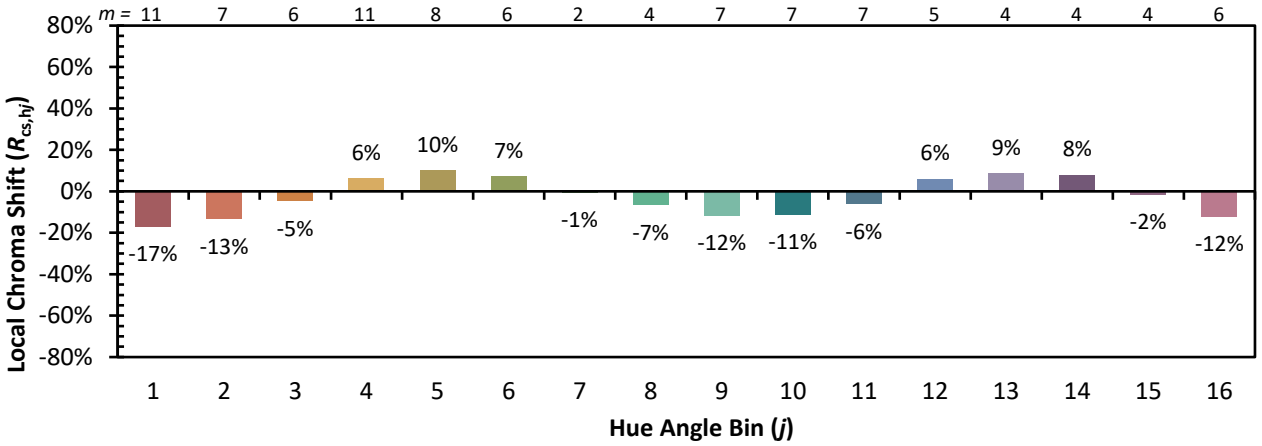


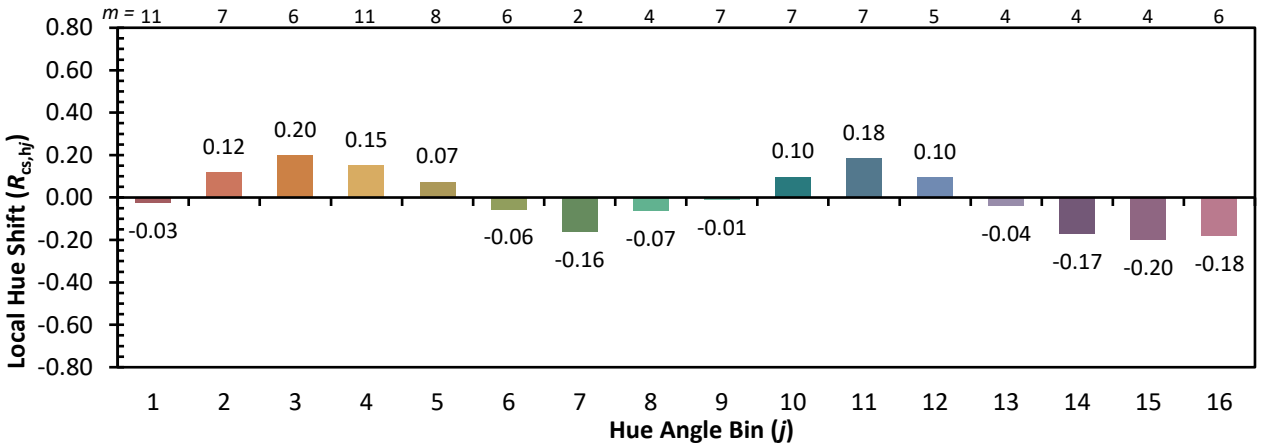
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

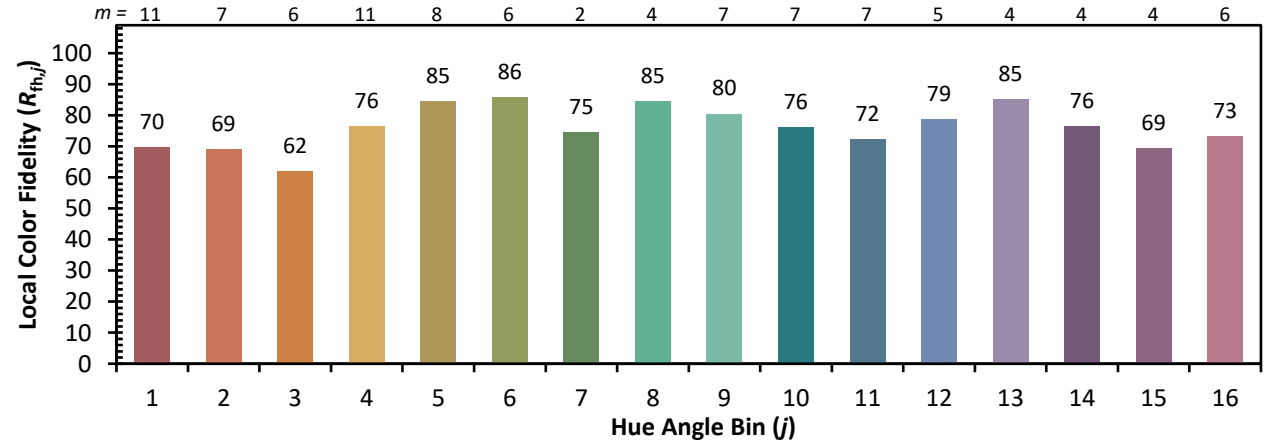
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### Color Rendition by Hue-Angle Bin



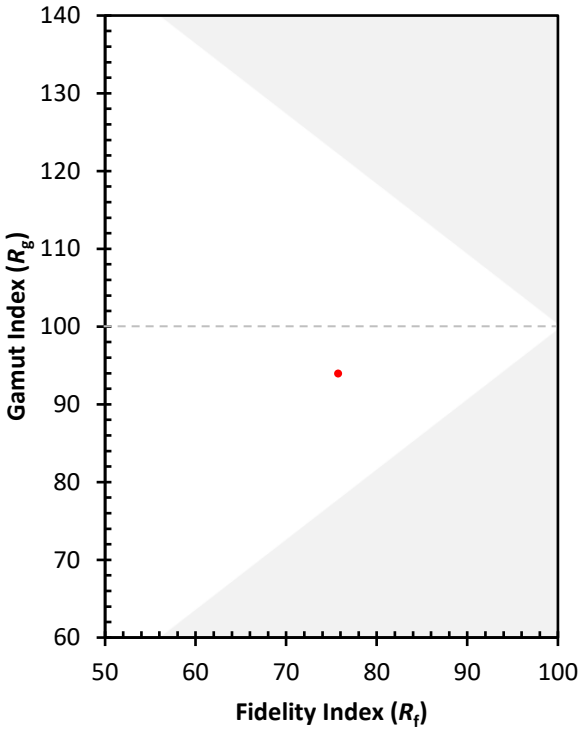



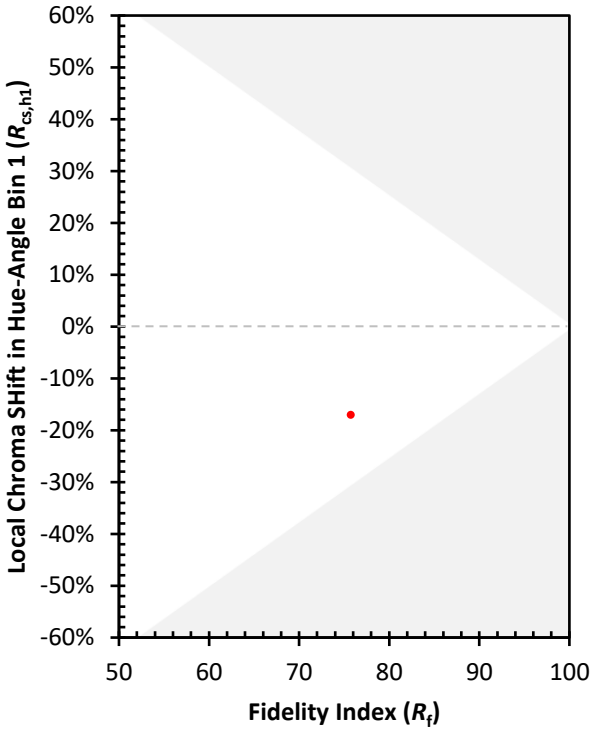
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Peachtree City, GA 30269

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### Measure Comparisons




(END OF REPORT)