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: P1201819

Luminaire Tested: GWC-SB1C-722-U-SLR

Issue Date: 10/30/2025

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1201819 |
| | 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-SB1C-722-U-SLR |
| Description: | GALLEON WALL LUMINAIRE |
| | (1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6198 lumens |
| Efficiency: | N/A |
| Efficacy: | 113.9 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): | 54.4 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.437 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.993 |
| Total Harmonic Distortion (THDi): | 9.314 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

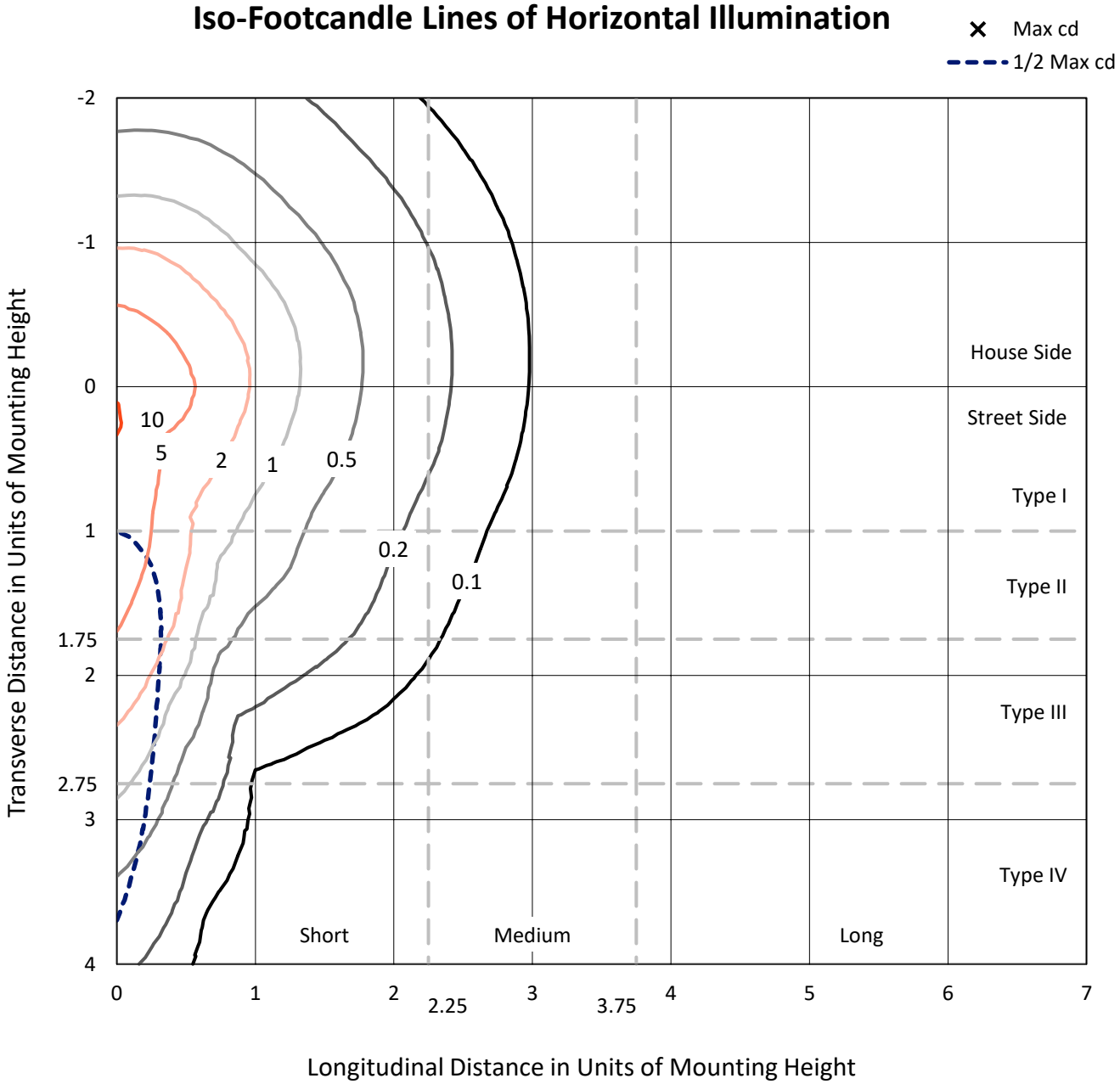


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## Iso-Footcandle Lines of Horizontal Illumination



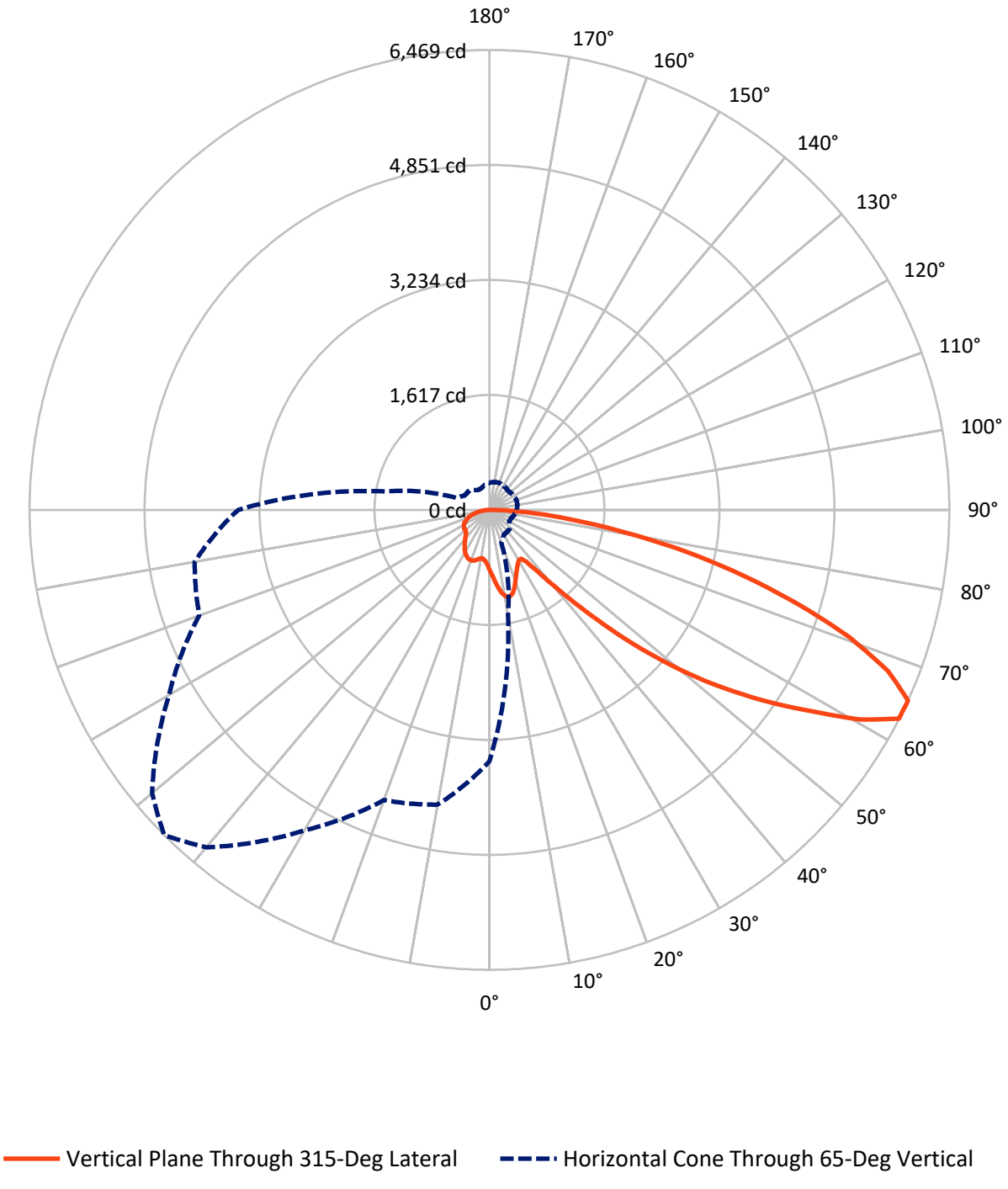

Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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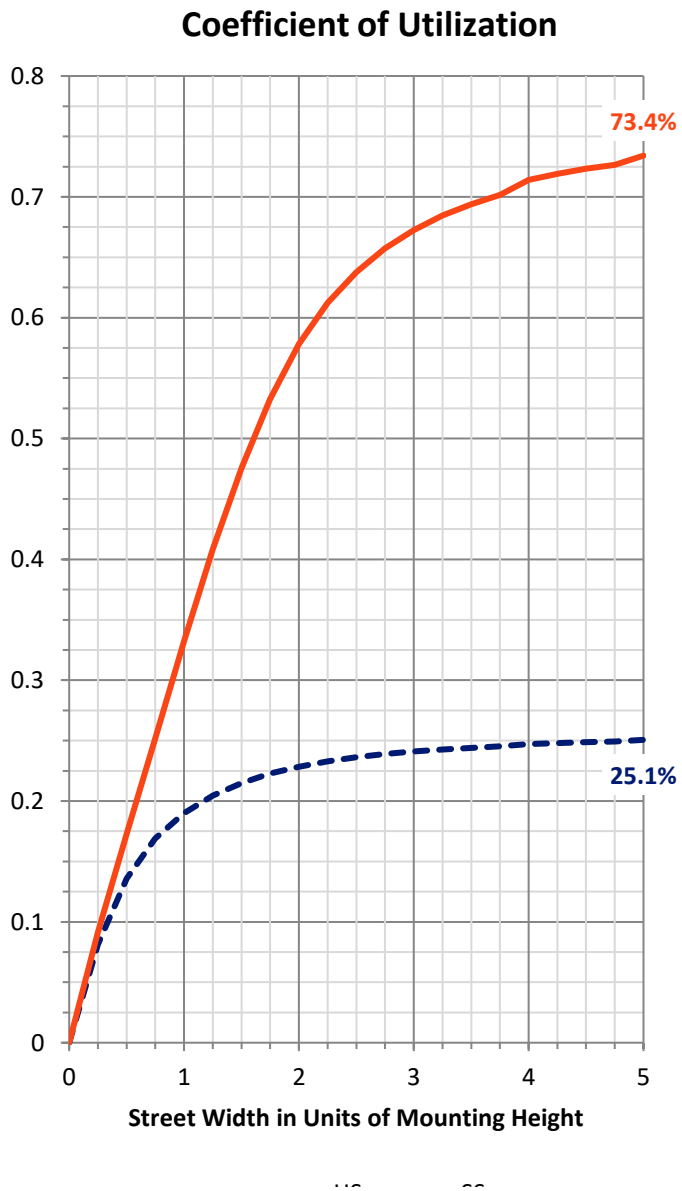
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1575.2 | 0.0 | 1575.2 |
| | % Fixture | 25.4 | 0.0 | 25.4 |
| **Street Side** | Lumens | 4622.8 | 0.0 | 4622.8 |
| | % Fixture | 74.6 | 0.0 | 74.6 |
| **Total** | Lumens | 6198.0 | 0.0 | 6198.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 84.5 | 1.4 |
| 10°-20° | 265.4 | 4.3 |
| 20°-30° | 410.0 | 6.6 |
| 30°-40° | 519.5 | 8.4 |
| 40°-50° | 783.6 | 12.6 |
| 50°-60° | 1266.0 | 20.4 |
| 60°-70° | 1578.2 | 25.5 |
| 70°-80° | 1034.9 | 16.7 |
| 80°-90° | 255.9 | 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° | 6198.0 | 100.0 |
| 0°-180° | 6198.0 | 100.0 |



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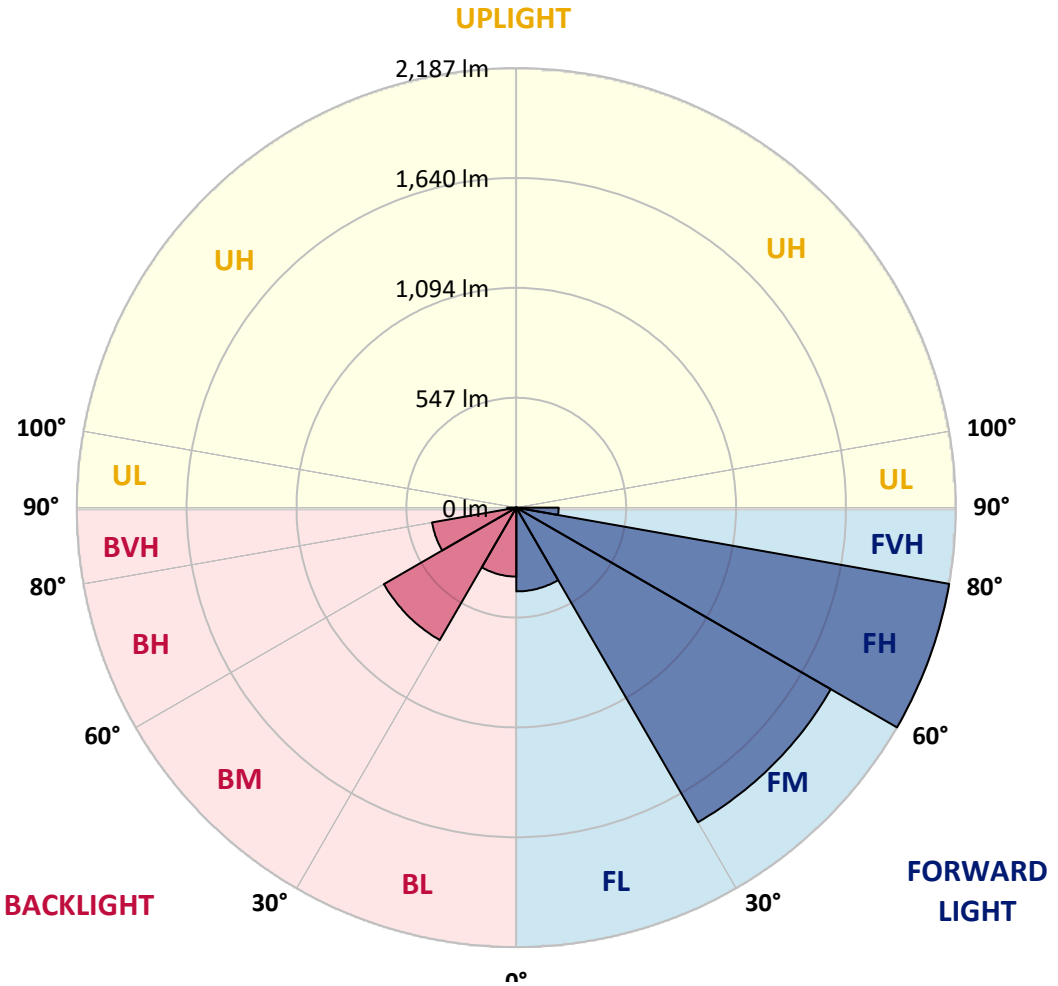
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 416.9 | 6.7 | | | |
| FM | (30°-60°) | 1807.8 | 29.2 | | | |
| FH | (60°-80°) | 2187.3 | 35.3 | | | G2/5000 |
| FVH | (80°-90°) | 210.8 | 3.4 | | | G2/225 |
| BL | (0°-30°) | 343.0 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 761.2 | 12.3 | B1/1000 | | |
| BH | (60°-80°) | 425.9 | 6.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 45.1 | 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° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 916.5 | 909.5 | 902.5 | 895.0 | 887.5 | 880.0 | 872.5 | 865.3 | 858.1 | 851.1 | 843.4 |
| 5° | 985.5 | 970.0 | 954.5 | 939.0 | 923.5 | 907.9 | 892.3 | 877.8 | 863.2 | 849.5 | 835.9 |
| 7.5° | 1054.9 | 1029.2 | 1003.6 | 980.0 | 956.3 | 933.2 | 910.2 | 889.9 | 869.5 | 850.8 | 833.2 |
| 10° | 1108.0 | 1075.6 | 1043.2 | 1011.9 | 980.6 | 952.6 | 924.6 | 900.6 | 876.5 | 853.4 | 834.6 |
| 12.5° | 1140.6 | 1105.0 | 1069.4 | 1033.9 | 998.5 | 965.4 | 932.4 | 905.2 | 878.0 | 853.8 | 836.2 |
| 15° | 1160.4 | 1123.2 | 1086.1 | 1047.7 | 1009.2 | 971.2 | 933.1 | 901.7 | 870.2 | 843.3 | 829.2 |
| 17.5° | 1171.5 | 1133.8 | 1096.2 | 1054.2 | 1012.3 | 968.1 | 924.0 | 886.1 | 848.3 | 816.6 | 808.0 |
| 20° | 1183.7 | 1144.6 | 1105.5 | 1059.4 | 1013.2 | 959.7 | 906.2 | 859.3 | 812.4 | 775.6 | 773.3 |
| 22.5° | 1198.0 | 1158.0 | 1118.0 | 1066.3 | 1014.6 | 949.5 | 884.4 | 827.9 | 771.4 | 729.5 | 734.0 |
| 25° | 1216.3 | 1177.1 | 1138.0 | 1078.9 | 1019.7 | 939.3 | 859.0 | 792.8 | 726.7 | 683.7 | 695.8 |
| 27.5° | 1241.1 | 1203.8 | 1166.4 | 1098.5 | 1030.5 | 932.6 | 834.6 | 760.7 | 686.9 | 647.7 | 662.4 |
| 30° | 1274.7 | 1238.6 | 1202.5 | 1123.9 | 1045.3 | 929.4 | 813.4 | 733.9 | 654.4 | 621.5 | 633.1 |
| 32.5° | 1314.2 | 1278.5 | 1242.8 | 1150.4 | 1058.1 | 925.5 | 792.8 | 710.8 | 628.7 | 602.3 | 607.4 |
| 35° | 1362.3 | 1328.1 | 1293.9 | 1180.6 | 1067.4 | 918.1 | 768.8 | 688.1 | 607.3 | 585.2 | 583.1 |
| 37.5° | 1443.2 | 1399.6 | 1356.0 | 1214.5 | 1073.0 | 905.4 | 737.9 | 661.3 | 584.8 | 565.5 | 557.7 |
| 40° | 1565.6 | 1502.0 | 1438.4 | 1257.5 | 1076.5 | 888.0 | 699.5 | 629.4 | 559.2 | 541.7 | 529.8 |
| 42.5° | 1727.8 | 1636.0 | 1544.2 | 1313.7 | 1083.1 | 870.0 | 657.0 | 594.2 | 531.4 | 515.3 | 500.2 |
| 45° | 1928.1 | 1804.3 | 1680.5 | 1387.7 | 1094.8 | 853.3 | 611.8 | 556.8 | 501.7 | 485.3 | 470.8 |
| 47.5° | 2178.6 | 2004.4 | 1830.1 | 1466.5 | 1102.8 | 839.5 | 576.2 | 527.2 | 478.1 | 457.0 | 444.5 |
| 50° | 2507.0 | 2244.3 | 1981.6 | 1539.6 | 1097.6 | 824.4 | 551.3 | 507.5 | 463.7 | 436.0 | 421.4 |
| 52.5° | 2883.9 | 2496.3 | 2108.8 | 1587.1 | 1065.3 | 799.0 | 532.8 | 494.6 | 456.4 | 424.5 | 404.2 |
| 55° | 3285.2 | 2719.8 | 2154.4 | 1576.6 | 998.8 | 756.9 | 515.0 | 485.2 | 455.3 | 425.6 | 395.0 |
| 57.5° | 3650.1 | 2878.1 | 2106.1 | 1503.0 | 899.9 | 697.5 | 495.1 | 474.1 | 453.0 | 426.8 | 389.5 |
| 60° | 3870.7 | 2917.7 | 1964.6 | 1365.9 | 767.2 | 620.4 | 473.6 | 457.0 | 440.5 | 423.2 | 384.3 |
| 62.5° | 3758.7 | 2751.1 | 1743.4 | 1180.6 | 617.7 | 528.1 | 438.5 | 427.5 | 416.5 | 414.4 | 378.3 |
| 65° | *3534.5* | *2515.3* | *1496.1* | *991.5* | *486.9* | *445.1* | *403.2* | *398.0* | *392.8* | *393.1* | *365.6* |
| 67.5° | 3234.1 | 2234.7 | 1235.3 | 806.2 | 377.1 | 365.3 | 353.4 | 356.3 | 359.2 | 358.4 | 343.0 |
| 70° | 2873.3 | 1928.6 | 983.9 | 634.8 | 285.7 | 289.1 | 292.4 | 305.9 | 319.4 | 319.4 | 314.3 |
| 72.5° | 2443.2 | 1596.7 | 750.2 | 485.3 | 220.4 | 230.6 | 240.9 | 260.0 | 279.0 | 282.2 | 282.3 |
| 75° | 1899.1 | 1216.2 | 533.3 | 352.2 | 171.1 | 180.4 | 189.7 | 211.1 | 232.5 | 247.2 | 246.0 |
| 77.5° | 1356.9 | 851.3 | 345.6 | 238.7 | 131.7 | 138.0 | 144.4 | 165.2 | 185.9 | 210.3 | 209.6 |
| 80° | 888.1 | 548.5 | 208.8 | 153.8 | 98.8 | 101.4 | 104.0 | 121.6 | 139.2 | 168.3 | 168.2 |
| 82.5° | 516.2 | 317.4 | 118.7 | 94.6 | 70.6 | 71.0 | 71.6 | 84.5 | 97.5 | 122.3 | 123.7 |
| 85° | 227.1 | 142.8 | 58.5 | 50.6 | 42.7 | 42.5 | 42.2 | 51.7 | 61.2 | 79.6 | 81.4 |
| 87.5° | 70.3 | 46.8 | 23.2 | 21.0 | 18.7 | 18.5 | 18.2 | 22.1 | 26.0 | 33.7 | 36.0 |
| 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° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 837.1 | 830.9 | 825.2 | 819.6 | 814.6 | 809.7 | 804.7 | 799.8 | 796.0 | 792.1 | 789.0 |
| 5° | 824.1 | 812.2 | 802.3 | 792.4 | 783.6 | 774.8 | 766.9 | 758.9 | 752.8 | 746.6 | 742.4 |
| 7.5° | 817.5 | 801.7 | 788.7 | 775.6 | 764.6 | 753.5 | 743.8 | 734.1 | 726.8 | 719.5 | 714.4 |
| 10° | 817.9 | 801.3 | 788.2 | 775.2 | 763.3 | 751.4 | 740.4 | 729.5 | 720.8 | 712.0 | 706.4 |
| 12.5° | 822.6 | 809.0 | 800.3 | 791.7 | 782.4 | 773.1 | 761.7 | 750.4 | 739.3 | 728.2 | 720.8 |
| 15° | 822.7 | 816.2 | 817.4 | 818.6 | 816.2 | 813.8 | 803.9 | 794.1 | 778.2 | 762.4 | 751.2 |
| 17.5° | 810.4 | 812.7 | 827.0 | 841.2 | 848.8 | 856.4 | 848.4 | 840.5 | 819.5 | 798.6 | 782.1 |
| 20° | 784.4 | 795.5 | 820.3 | 845.1 | 860.9 | 876.8 | 873.1 | 869.4 | 845.5 | 821.5 | 801.3 |
| 22.5° | 750.4 | 766.9 | 795.1 | 823.4 | 844.1 | 864.7 | 866.9 | 869.1 | 846.2 | 823.3 | 802.5 |
| 25° | 714.8 | 733.7 | 759.1 | 784.6 | 804.9 | 825.2 | 832.8 | 840.3 | 821.6 | 802.8 | 784.3 |
| 27.5° | 680.7 | 699.1 | 720.0 | 740.8 | 757.1 | 773.4 | 781.8 | 790.3 | 776.9 | 763.6 | 749.2 |
| 30° | 647.6 | 662.2 | 679.5 | 696.9 | 710.4 | 723.9 | 730.8 | 737.6 | 727.5 | 717.3 | 707.0 |
| 32.5° | 616.0 | 624.6 | 638.4 | 652.3 | 665.2 | 678.2 | 685.8 | 693.5 | 684.1 | 674.8 | 666.5 |
| 35° | 585.5 | 587.9 | 598.4 | 609.0 | 621.8 | 634.6 | 643.8 | 652.9 | 646.3 | 639.6 | 632.0 |
| 37.5° | 555.1 | 552.4 | 560.0 | 567.6 | 580.4 | 593.2 | 604.5 | 615.8 | 612.8 | 609.7 | 602.7 |
| 40° | 523.9 | 518.0 | 523.4 | 528.9 | 541.3 | 553.6 | 566.6 | 579.7 | 580.4 | 581.2 | 575.2 |
| 42.5° | 492.4 | 484.5 | 489.0 | 493.4 | 505.2 | 516.9 | 531.0 | 545.0 | 548.8 | 552.5 | 547.5 |
| 45° | 463.1 | 455.5 | 459.2 | 463.0 | 474.1 | 485.3 | 499.9 | 514.4 | 519.8 | 525.2 | 520.7 |
| 47.5° | 438.1 | 431.7 | 435.2 | 438.7 | 449.6 | 460.5 | 474.9 | 489.3 | 495.5 | 501.7 | 498.5 |
| 50° | 415.7 | 410.0 | 415.5 | 421.1 | 431.3 | 441.6 | 454.5 | 467.3 | 475.3 | 483.3 | 483.1 |
| 52.5° | 398.5 | 392.9 | 401.2 | 409.5 | 418.9 | 428.3 | 440.3 | 452.3 | 461.8 | 471.2 | 472.9 |
| 55° | 386.1 | 377.2 | 389.0 | 400.7 | 410.8 | 421.0 | 431.5 | 442.0 | 452.0 | 462.0 | 464.4 |
| 57.5° | 376.6 | 363.6 | 376.2 | 388.9 | 400.8 | 412.7 | 423.1 | 433.5 | 443.6 | 453.7 | 456.1 |
| 60° | 367.6 | 350.8 | 361.8 | 372.9 | 386.6 | 400.2 | 410.8 | 421.4 | 431.5 | 441.7 | 444.3 |
| 62.5° | 357.3 | 336.4 | 343.4 | 350.4 | 366.4 | 382.3 | 393.6 | 404.9 | 414.2 | 423.5 | 426.0 |
| 65° | *343.3* | *321.0* | *323.7* | *326.4* | *343.5* | *360.6* | *371.4* | *382.2* | *390.3* | *398.5* | *401.1* |
| 67.5° | 324.4 | 305.9 | 305.0 | 304.2 | 319.9 | 335.7 | 345.9 | 356.2 | 363.2 | 370.3 | 372.8 |
| 70° | 301.1 | 287.9 | 284.9 | 282.0 | 295.8 | 309.7 | 318.5 | 327.4 | 333.7 | 340.1 | 342.5 |
| 72.5° | 273.2 | 264.2 | 259.9 | 255.6 | 266.5 | 277.4 | 285.4 | 293.4 | 299.6 | 305.9 | 308.7 |
| 75° | 239.0 | 232.0 | 227.9 | 223.8 | 231.9 | 240.0 | 247.2 | 254.4 | 260.1 | 265.8 | 268.8 |
| 77.5° | 204.0 | 198.5 | 194.3 | 190.1 | 196.7 | 203.3 | 209.5 | 215.7 | 221.7 | 227.6 | 230.4 |
| 80° | 163.5 | 158.8 | 155.3 | 151.7 | 157.2 | 162.7 | 167.9 | 173.2 | 177.7 | 182.2 | 186.0 |
| 82.5° | 121.4 | 119.1 | 116.6 | 114.1 | 113.7 | 113.2 | 111.4 | 109.6 | 119.2 | 128.9 | 135.3 |
| 85° | 79.0 | 76.5 | 73.7 | 71.0 | 68.6 | 66.2 | 61.2 | 56.1 | 65.1 | 74.2 | 82.1 |
| 87.5° | 35.0 | 34.0 | 33.5 | 33.0 | 32.9 | 32.8 | 28.9 | 25.0 | 28.8 | 32.6 | 35.8 |
| 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° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 785.9 | 783.5 | 781.0 | 778.8 | 776.6 | 773.8 | 776.6 | 778.8 | 781.0 | 783.5 | 785.9 |
| 5° | 738.1 | 735.0 | 732.0 | 729.7 | 727.3 | 725.1 | 727.3 | 729.7 | 732.0 | 735.0 | 738.1 |
| 7.5° | 709.3 | 705.8 | 702.3 | 700.2 | 698.2 | 696.6 | 698.2 | 700.2 | 702.3 | 705.8 | 709.3 |
| 10° | 700.6 | 697.3 | 694.0 | 692.2 | 690.5 | 689.7 | 690.5 | 692.2 | 694.0 | 697.3 | 700.6 |
| 12.5° | 713.4 | 709.8 | 706.1 | 704.6 | 703.1 | 702.8 | 703.1 | 704.6 | 706.1 | 709.8 | 713.4 |
| 15° | 740.0 | 734.9 | 729.8 | 727.8 | 725.9 | 725.7 | 725.9 | 727.8 | 729.8 | 734.9 | 740.0 |
| 17.5° | 765.6 | 758.0 | 750.4 | 747.9 | 745.4 | 745.0 | 745.4 | 747.9 | 750.4 | 758.0 | 765.6 |
| 20° | 781.1 | 771.4 | 761.7 | 758.6 | 755.5 | 754.5 | 755.5 | 758.6 | 761.7 | 771.4 | 781.1 |
| 22.5° | 781.7 | 771.5 | 761.2 | 757.8 | 754.3 | 752.9 | 754.3 | 757.8 | 761.2 | 771.5 | 781.7 |
| 25° | 765.9 | 757.0 | 748.1 | 744.9 | 741.7 | 739.8 | 741.7 | 744.9 | 748.1 | 757.0 | 765.9 |
| 27.5° | 734.9 | 728.9 | 722.9 | 721.5 | 720.0 | 719.5 | 720.0 | 721.5 | 722.9 | 728.9 | 734.9 |
| 30° | 696.7 | 693.6 | 690.6 | 690.6 | 690.6 | 691.0 | 690.6 | 690.6 | 690.6 | 693.6 | 696.7 |
| 32.5° | 658.3 | 656.3 | 654.4 | 654.6 | 654.9 | 655.4 | 654.9 | 654.6 | 654.4 | 656.3 | 658.3 |
| 35° | 624.5 | 621.5 | 618.4 | 617.8 | 617.1 | 616.8 | 617.1 | 617.8 | 618.4 | 621.5 | 624.5 |
| 37.5° | 595.7 | 590.2 | 584.7 | 581.8 | 578.9 | 577.2 | 578.9 | 581.8 | 584.7 | 590.2 | 595.7 |
| 40° | 569.3 | 561.3 | 553.3 | 547.9 | 542.5 | 539.3 | 542.5 | 547.9 | 553.3 | 561.3 | 569.3 |
| 42.5° | 542.6 | 532.6 | 522.6 | 514.7 | 506.9 | 501.7 | 506.9 | 514.7 | 522.6 | 532.6 | 542.6 |
| 45° | 516.2 | 504.8 | 493.4 | 484.2 | 474.9 | 469.0 | 474.9 | 484.2 | 493.4 | 504.8 | 516.2 |
| 47.5° | 495.4 | 485.3 | 475.1 | 466.6 | 458.0 | 452.3 | 458.0 | 466.6 | 475.1 | 485.3 | 495.4 |
| 50° | 483.0 | 474.9 | 466.8 | 458.8 | 450.9 | 445.4 | 450.9 | 458.8 | 466.8 | 474.9 | 483.0 |
| 52.5° | 474.6 | 468.0 | 461.4 | 454.3 | 447.2 | 442.2 | 447.2 | 454.3 | 461.4 | 468.0 | 474.6 |
| 55° | 466.8 | 461.0 | 455.2 | 449.0 | 442.8 | 438.2 | 442.8 | 449.0 | 455.2 | 461.0 | 466.8 |
| 57.5° | 458.5 | 452.6 | 446.8 | 440.7 | 434.5 | 429.7 | 434.5 | 440.7 | 446.8 | 452.6 | 458.5 |
| 60° | 446.9 | 441.2 | 435.6 | 429.2 | 422.9 | 418.0 | 422.9 | 429.2 | 435.6 | 441.2 | 446.9 |
| 62.5° | 428.5 | 423.4 | 418.2 | 411.6 | 404.9 | 399.0 | 404.9 | 411.6 | 418.2 | 423.4 | 428.5 |
| 65° | *403.6* | *398.7* | *393.8* | *387.3* | *380.8* | *375.8* | *380.8* | *387.3* | *393.8* | *398.7* | *403.6* |
| 67.5° | 375.3 | 370.7 | 366.2 | 360.2 | 354.2 | 349.6 | 354.2 | 360.2 | 366.2 | 370.7 | 375.3 |
| 70° | 345.0 | 341.3 | 337.6 | 331.8 | 326.1 | 320.8 | 326.1 | 331.8 | 337.6 | 341.3 | 345.0 |
| 72.5° | 311.6 | 308.5 | 305.5 | 300.0 | 294.5 | 289.4 | 294.5 | 300.0 | 305.5 | 308.5 | 311.6 |
| 75° | 271.8 | 270.3 | 268.8 | 264.2 | 259.6 | 254.8 | 259.6 | 264.2 | 268.8 | 270.3 | 271.8 |
| 77.5° | 233.2 | 231.2 | 229.0 | 224.4 | 219.7 | 215.8 | 219.7 | 224.4 | 229.0 | 231.2 | 233.2 |
| 80° | 189.7 | 188.8 | 187.9 | 181.6 | 175.4 | 168.1 | 175.4 | 181.6 | 187.9 | 188.8 | 189.7 |
| 82.5° | 141.6 | 141.2 | 140.8 | 135.5 | 130.2 | 125.6 | 130.2 | 135.5 | 140.8 | 141.2 | 141.6 |
| 85° | 89.9 | 89.3 | 88.6 | 84.5 | 80.4 | 76.2 | 80.4 | 84.5 | 88.6 | 89.3 | 89.9 |
| 87.5° | 39.0 | 38.2 | 37.3 | 35.3 | 33.1 | 31.1 | 33.1 | 35.3 | 37.3 | 38.2 | 39.0 |
| 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1201819
CATALOG NUMBER: GWC-SB1C-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 789.0 | 792.1 | 796.0 | 799.8 | 804.7 | 809.7 | 814.6 | 819.6 | 825.2 | 830.9 | 837.1 |
| 5° | 742.4 | 746.6 | 752.8 | 758.9 | 766.9 | 774.8 | 783.6 | 792.4 | 802.3 | 812.2 | 824.1 |
| 7.5° | 714.4 | 719.5 | 726.8 | 734.1 | 743.8 | 753.5 | 764.6 | 775.6 | 788.7 | 801.7 | 817.5 |
| 10° | 706.4 | 712.0 | 720.8 | 729.5 | 740.4 | 751.4 | 763.3 | 775.2 | 788.2 | 801.3 | 817.9 |
| 12.5° | 720.8 | 728.2 | 739.3 | 750.4 | 761.7 | 773.1 | 782.4 | 791.7 | 800.3 | 809.0 | 822.6 |
| 15° | 751.2 | 762.4 | 778.2 | 794.1 | 803.9 | 813.8 | 816.2 | 818.6 | 817.4 | 816.2 | 822.7 |
| 17.5° | 782.1 | 798.6 | 819.5 | 840.5 | 848.4 | 856.4 | 848.8 | 841.2 | 827.0 | 812.7 | 810.4 |
| 20° | 801.3 | 821.5 | 845.5 | 869.4 | 873.1 | 876.8 | 860.9 | 845.1 | 820.3 | 795.5 | 784.4 |
| 22.5° | 802.5 | 823.3 | 846.2 | 869.1 | 866.9 | 864.7 | 844.1 | 823.4 | 795.1 | 766.9 | 750.4 |
| 25° | 784.3 | 802.8 | 821.6 | 840.3 | 832.8 | 825.2 | 804.9 | 784.6 | 759.1 | 733.7 | 714.8 |
| 27.5° | 749.2 | 763.6 | 776.9 | 790.3 | 781.8 | 773.4 | 757.1 | 740.8 | 720.0 | 699.1 | 680.7 |
| 30° | 707.0 | 717.3 | 727.5 | 737.6 | 730.8 | 723.9 | 710.4 | 696.9 | 679.5 | 662.2 | 647.6 |
| 32.5° | 666.5 | 674.8 | 684.1 | 693.5 | 685.8 | 678.2 | 665.2 | 652.3 | 638.4 | 624.6 | 616.0 |
| 35° | 632.0 | 639.6 | 646.3 | 652.9 | 643.8 | 634.6 | 621.8 | 609.0 | 598.4 | 587.9 | 585.5 |
| 37.5° | 602.7 | 609.7 | 612.8 | 615.8 | 604.5 | 593.2 | 580.4 | 567.6 | 560.0 | 552.4 | 555.1 |
| 40° | 575.2 | 581.2 | 580.4 | 579.7 | 566.6 | 553.6 | 541.3 | 528.9 | 523.4 | 518.0 | 523.9 |
| 42.5° | 547.5 | 552.5 | 548.8 | 545.0 | 531.0 | 516.9 | 505.2 | 493.4 | 489.0 | 484.5 | 492.4 |
| 45° | 520.7 | 525.2 | 519.8 | 514.4 | 499.9 | 485.3 | 474.1 | 463.0 | 459.2 | 455.5 | 463.1 |
| 47.5° | 498.5 | 501.7 | 495.5 | 489.3 | 474.9 | 460.5 | 449.6 | 438.7 | 435.2 | 431.7 | 438.1 |
| 50° | 483.1 | 483.3 | 475.3 | 467.3 | 454.5 | 441.6 | 431.3 | 421.1 | 415.5 | 410.0 | 415.7 |
| 52.5° | 472.9 | 471.2 | 461.8 | 452.3 | 440.3 | 428.3 | 418.9 | 409.5 | 401.2 | 392.9 | 398.5 |
| 55° | 464.4 | 462.0 | 452.0 | 442.0 | 431.5 | 421.0 | 410.8 | 400.7 | 389.0 | 377.2 | 386.1 |
| 57.5° | 456.1 | 453.7 | 443.6 | 433.5 | 423.1 | 412.7 | 400.8 | 388.9 | 376.2 | 363.6 | 376.6 |
| 60° | 444.3 | 441.7 | 431.5 | 421.4 | 410.8 | 400.2 | 386.6 | 372.9 | 361.8 | 350.8 | 367.6 |
| 62.5° | 426.0 | 423.5 | 414.2 | 404.9 | 393.6 | 382.3 | 366.4 | 350.4 | 343.4 | 336.4 | 357.3 |
| 65° | *401.1* | *398.5* | *390.3* | *382.2* | *371.4* | *360.6* | *343.5* | *326.4* | *323.7* | *321.0* | *343.3* |
| 67.5° | 372.8 | 370.3 | 363.2 | 356.2 | 345.9 | 335.7 | 319.9 | 304.2 | 305.0 | 305.9 | 324.4 |
| 70° | 342.5 | 340.1 | 333.7 | 327.4 | 318.5 | 309.7 | 295.8 | 282.0 | 284.9 | 287.9 | 301.1 |
| 72.5° | 308.7 | 305.9 | 299.6 | 293.4 | 285.4 | 277.4 | 266.5 | 255.6 | 259.9 | 264.2 | 273.2 |
| 75° | 268.8 | 265.8 | 260.1 | 254.4 | 247.2 | 240.0 | 231.9 | 223.8 | 227.9 | 232.0 | 239.0 |
| 77.5° | 230.4 | 227.6 | 221.7 | 215.7 | 209.5 | 203.3 | 196.7 | 190.1 | 194.3 | 198.5 | 204.0 |
| 80° | 186.0 | 182.2 | 177.7 | 173.2 | 167.9 | 162.7 | 157.2 | 151.7 | 155.3 | 158.8 | 163.5 |
| 82.5° | 135.3 | 128.9 | 119.2 | 109.6 | 111.4 | 113.2 | 113.7 | 114.1 | 116.6 | 119.1 | 121.4 |
| 85° | 82.1 | 74.2 | 65.1 | 56.1 | 61.2 | 66.2 | 68.6 | 71.0 | 73.7 | 76.5 | 79.0 |
| 87.5° | 35.8 | 32.6 | 28.8 | 25.0 | 28.9 | 32.8 | 32.9 | 33.0 | 33.5 | 34.0 | 35.0 |
| 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: P1201819
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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 843.4 | 851.1 | 858.1 | 865.3 | 872.5 | 880.0 | 887.5 | 895.0 | 902.5 | 909.5 | 916.5 |
| 5° | 835.9 | 849.5 | 863.2 | 877.8 | 892.3 | 907.9 | 923.5 | 939.0 | 954.5 | 970.0 | 985.5 |
| 7.5° | 833.2 | 850.8 | 869.5 | 889.9 | 910.2 | 933.2 | 956.3 | 980.0 | 1003.6 | 1029.2 | 1054.9 |
| 10° | 834.6 | 853.4 | 876.5 | 900.6 | 924.6 | 952.6 | 980.6 | 1011.9 | 1043.2 | 1075.6 | 1108.0 |
| 12.5° | 836.2 | 853.8 | 878.0 | 905.2 | 932.4 | 965.4 | 998.5 | 1033.9 | 1069.4 | 1105.0 | 1140.6 |
| 15° | 829.2 | 843.3 | 870.2 | 901.7 | 933.1 | 971.2 | 1009.2 | 1047.7 | 1086.1 | 1123.2 | 1160.4 |
| 17.5° | 808.0 | 816.6 | 848.3 | 886.1 | 924.0 | 968.1 | 1012.3 | 1054.2 | 1096.2 | 1133.8 | 1171.5 |
| 20° | 773.3 | 775.6 | 812.4 | 859.3 | 906.2 | 959.7 | 1013.2 | 1059.4 | 1105.5 | 1144.6 | 1183.7 |
| 22.5° | 734.0 | 729.5 | 771.4 | 827.9 | 884.4 | 949.5 | 1014.6 | 1066.3 | 1118.0 | 1158.0 | 1198.0 |
| 25° | 695.8 | 683.7 | 726.7 | 792.8 | 859.0 | 939.3 | 1019.7 | 1078.9 | 1138.0 | 1177.1 | 1216.3 |
| 27.5° | 662.4 | 647.7 | 686.9 | 760.7 | 834.6 | 932.6 | 1030.5 | 1098.5 | 1166.4 | 1203.8 | 1241.1 |
| 30° | 633.1 | 621.5 | 654.4 | 733.9 | 813.4 | 929.4 | 1045.3 | 1123.9 | 1202.5 | 1238.6 | 1274.7 |
| 32.5° | 607.4 | 602.3 | 628.7 | 710.8 | 792.8 | 925.5 | 1058.1 | 1150.4 | 1242.8 | 1278.5 | 1314.2 |
| 35° | 583.1 | 585.2 | 607.3 | 688.1 | 768.8 | 918.1 | 1067.4 | 1180.6 | 1293.9 | 1328.1 | 1362.3 |
| 37.5° | 557.7 | 565.5 | 584.8 | 661.3 | 737.9 | 905.4 | 1073.0 | 1214.5 | 1356.0 | 1399.6 | 1443.2 |
| 40° | 529.8 | 541.7 | 559.2 | 629.4 | 699.5 | 888.0 | 1076.5 | 1257.5 | 1438.4 | 1502.0 | 1565.6 |
| 42.5° | 500.2 | 515.3 | 531.4 | 594.2 | 657.0 | 870.0 | 1083.1 | 1313.7 | 1544.2 | 1636.0 | 1727.8 |
| 45° | 470.8 | 485.3 | 501.7 | 556.8 | 611.8 | 853.3 | 1094.8 | 1387.7 | 1680.5 | 1804.3 | 1928.1 |
| 47.5° | 444.5 | 457.0 | 478.1 | 527.2 | 576.2 | 839.5 | 1102.8 | 1466.5 | 1830.1 | 2004.4 | 2178.6 |
| 50° | 421.4 | 436.0 | 463.7 | 507.5 | 551.3 | 824.4 | 1097.6 | 1539.6 | 1981.6 | 2244.3 | 2507.0 |
| 52.5° | 404.2 | 424.5 | 456.4 | 494.6 | 532.8 | 799.0 | 1065.3 | 1587.1 | 2108.8 | 2496.3 | 2883.9 |
| 55° | 395.0 | 425.6 | 455.3 | 485.2 | 515.0 | 756.9 | 998.8 | 1576.6 | 2154.4 | 2719.8 | 3285.2 |
| 57.5° | 389.5 | 426.8 | 453.0 | 474.1 | 495.1 | 697.5 | 899.9 | 1503.0 | 2106.1 | 2878.1 | 3650.1 |
| 60° | 384.3 | 423.2 | 440.5 | 457.0 | 473.6 | 620.4 | 767.2 | 1365.9 | 1964.6 | 2917.7 | 3870.7 |
| 62.5° | 378.3 | 414.4 | 416.5 | 427.5 | 438.5 | 528.1 | 617.7 | 1180.6 | 1743.4 | 2751.1 | 3758.7 |
| 65° | *365.6* | *393.1* | *392.8* | *398.0* | *403.2* | *445.1* | *486.9* | *991.5* | *1496.1* | *2515.3* | *3534.5* |
| 67.5° | 343.0 | 358.4 | 359.2 | 356.3 | 353.4 | 365.3 | 377.1 | 806.2 | 1235.3 | 2234.7 | 3234.1 |
| 70° | 314.3 | 319.4 | 319.4 | 305.9 | 292.4 | 289.1 | 285.7 | 634.8 | 983.9 | 1928.6 | 2873.3 |
| 72.5° | 282.3 | 282.2 | 279.0 | 260.0 | 240.9 | 230.6 | 220.4 | 485.3 | 750.2 | 1596.7 | 2443.2 |
| 75° | 246.0 | 247.2 | 232.5 | 211.1 | 189.7 | 180.4 | 171.1 | 352.2 | 533.3 | 1216.2 | 1899.1 |
| 77.5° | 209.6 | 210.3 | 185.9 | 165.2 | 144.4 | 138.0 | 131.7 | 238.7 | 345.6 | 851.3 | 1356.9 |
| 80° | 168.2 | 168.3 | 139.2 | 121.6 | 104.0 | 101.4 | 98.8 | 153.8 | 208.8 | 548.5 | 888.1 |
| 82.5° | 123.7 | 122.3 | 97.5 | 84.5 | 71.6 | 71.0 | 70.6 | 94.6 | 118.7 | 317.4 | 516.2 |
| 85° | 81.4 | 79.6 | 61.2 | 51.7 | 42.2 | 42.5 | 42.7 | 50.6 | 58.5 | 142.8 | 227.1 |
| 87.5° | 36.0 | 33.7 | 26.0 | 22.1 | 18.2 | 18.5 | 18.7 | 21.0 | 23.2 | 46.8 | 70.3 |
| 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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REPORT NUMBER: P1201819
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | *852.3* | 852.3 | 852.3 |
| 2.5° | 920.0 | 923.5 | 928.4 | 933.4 | 936.3 | 939.3 | 940.7 | 942.2 | *941.6* | 942.2 | 940.7 |
| 5° | 997.7 | 1009.8 | 1021.9 | 1034.0 | 1040.5 | 1047.0 | 1051.0 | 1055.0 | *1058.0* | 1055.0 | 1051.0 |
| 7.5° | 1074.6 | 1094.4 | 1112.1 | 1129.9 | 1140.6 | 1151.3 | 1157.1 | 1162.8 | *1165.6* | 1162.8 | 1157.1 |
| 10° | 1131.4 | 1154.7 | 1175.6 | 1196.4 | 1209.0 | 1221.6 | 1227.2 | 1232.8 | *1234.9* | 1232.8 | 1227.2 |
| 12.5° | 1165.9 | 1191.2 | 1210.0 | 1228.8 | 1237.9 | 1247.1 | 1250.2 | 1253.2 | *1253.6* | 1253.2 | 1250.2 |
| 15° | 1182.2 | 1204.0 | 1215.8 | 1227.7 | 1228.0 | 1228.3 | 1225.0 | 1221.8 | *1217.9* | 1221.8 | 1225.0 |
| 17.5° | 1186.2 | 1201.0 | 1201.2 | 1201.4 | 1188.2 | 1174.9 | 1162.8 | 1150.6 | *1142.0* | 1150.6 | 1162.8 |
| 20° | 1188.9 | 1194.0 | 1178.5 | 1163.0 | 1133.7 | 1104.5 | 1083.2 | 1061.9 | *1048.8* | 1061.9 | 1083.2 |
| 22.5° | 1191.2 | 1184.5 | 1152.3 | 1120.1 | 1077.1 | 1034.1 | 1007.5 | 980.9 | *966.4* | 980.9 | 1007.5 |
| 25° | 1195.0 | 1173.8 | 1124.9 | 1076.0 | 1023.8 | 971.6 | 943.6 | 915.7 | *902.0* | 915.7 | 943.6 |
| 27.5° | 1203.1 | 1165.1 | 1100.4 | 1035.7 | 977.8 | 919.9 | 892.4 | 864.9 | *852.0* | 864.9 | 892.4 |
| 30° | 1218.0 | 1161.3 | 1081.7 | 1002.0 | 941.7 | 881.4 | 855.8 | 830.3 | *818.3* | 830.3 | 855.8 |
| 32.5° | 1236.6 | 1159.0 | 1068.9 | 978.8 | 922.1 | 865.4 | 845.4 | 825.3 | *816.6* | 825.3 | 845.4 |
| 35° | 1267.3 | 1172.4 | 1078.5 | 984.6 | 945.2 | 905.8 | 901.2 | 896.5 | *895.8* | 896.5 | 901.2 |
| 37.5° | 1331.5 | 1219.8 | 1134.5 | 1049.1 | 1046.5 | 1044.0 | 1065.4 | 1086.8 | *1097.9* | 1086.8 | 1065.4 |
| 40° | 1444.1 | 1322.6 | 1259.1 | 1195.6 | 1240.4 | 1285.2 | 1337.2 | 1389.2 | *1415.1* | 1389.2 | 1337.2 |
| 42.5° | 1607.2 | 1486.7 | 1450.1 | 1413.6 | 1511.3 | 1609.0 | 1703.6 | 1798.2 | *1853.7* | 1798.2 | 1703.6 |
| 45° | 1819.8 | 1711.5 | 1695.4 | 1679.2 | 1835.8 | 1992.4 | 2147.8 | 2303.2 | *2397.6* | 2303.2 | 2147.8 |
| 47.5° | 2073.3 | 1967.9 | 1964.6 | 1961.4 | 2187.2 | 2413.0 | 2640.5 | 2868.0 | *3001.6* | 2868.0 | 2640.5 |
| 50° | 2376.8 | 2246.7 | 2247.3 | 2247.8 | 2538.9 | 2830.0 | 3130.3 | 3430.6 | *3612.2* | 3430.6 | 3130.3 |
| 52.5° | 2726.3 | 2568.8 | 2552.8 | 2536.9 | 2884.6 | 3232.2 | 3603.8 | 3975.4 | *4193.0* | 3975.4 | 3603.8 |
| 55° | 3129.5 | 2973.8 | 2911.7 | 2849.6 | 3236.6 | 3623.5 | 4066.5 | 4509.5 | *4768.3* | 4509.5 | 4066.5 |
| 57.5° | 3565.4 | 3480.6 | 3356.0 | 3231.5 | 3622.2 | 4012.9 | 4514.7 | 5016.4 | *5337.4* | 5016.4 | 4514.7 |
| 60° | 4002.4 | 4134.1 | 3979.4 | 3824.7 | 4194.5 | 4564.2 | 5101.4 | 5638.6 | *5985.6* | 5638.6 | 5101.4 |
| 62.5° | 4118.5 | 4478.3 | 4460.9 | 4443.4 | 4782.1 | 5120.9 | 5632.0 | 6143.0 | *6463.7* | 6143.0 | 5632.0 |
| 65° | *3872.2* | *4209.9* | *4276.7* | *4343.5* | *4773.9* | *5204.4* | *5700.0* | *6195.6* | *6468.6* | *6195.6* | *5700.0* |
| 67.5° | 3555.3 | 3876.5 | 3907.8 | 3939.1 | 4387.6 | 4836.1 | 5333.8 | 5831.5 | *6045.4* | 5831.5 | 5333.8 |
| 70° | 3222.6 | 3571.9 | 3585.9 | 3599.9 | 4001.0 | 4402.1 | 4830.4 | 5258.7 | *5377.6* | 5258.7 | 4830.4 |
| 72.5° | 2844.0 | 3244.9 | 3255.0 | 3265.1 | 3578.8 | 3892.6 | 4213.4 | 4534.2 | *4546.2* | 4534.2 | 4213.4 |
| 75° | 2314.0 | 2728.9 | 2766.2 | 2803.4 | 3047.6 | 3291.7 | 3517.5 | 3743.4 | *3682.8* | 3743.4 | 3517.5 |
| 77.5° | 1744.2 | 2131.5 | 2184.8 | 2238.1 | 2423.7 | 2609.3 | 2769.5 | 2929.7 | *2825.7* | 2929.7 | 2769.5 |
| 80° | 1213.9 | 1539.7 | 1606.0 | 1672.2 | 1812.4 | 1952.5 | 2036.6 | 2120.7 | *1953.4* | 2120.7 | 2036.6 |
| 82.5° | 739.0 | 961.8 | 1035.8 | 1109.8 | 1206.3 | 1302.8 | 1337.9 | 1372.9 | *1241.5* | 1372.9 | 1337.9 |
| 85° | 345.4 | 463.6 | 526.5 | 589.5 | 668.8 | 748.0 | 767.9 | 787.9 | *682.5* | 787.9 | 767.9 |
| 87.5° | 110.1 | 149.8 | 184.9 | 220.0 | 259.7 | 299.3 | 301.0 | 302.7 | *254.1* | 302.7 | 301.0 |
| 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: P1201819
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**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 | 852.3 |
| 2.5° | 939.3 | 936.3 | 933.4 | 928.4 | 923.5 | 920.0 | 916.5 |
| 5° | 1047.0 | 1040.5 | 1034.0 | 1021.9 | 1009.8 | 997.7 | 985.5 |
| 7.5° | 1151.3 | 1140.6 | 1129.9 | 1112.1 | 1094.4 | 1074.6 | 1054.9 |
| 10° | 1221.6 | 1209.0 | 1196.4 | 1175.6 | 1154.7 | 1131.4 | 1108.0 |
| 12.5° | 1247.1 | 1237.9 | 1228.8 | 1210.0 | 1191.2 | 1165.9 | 1140.6 |
| 15° | 1228.3 | 1228.0 | 1227.7 | 1215.8 | 1204.0 | 1182.2 | 1160.4 |
| 17.5° | 1174.9 | 1188.2 | 1201.4 | 1201.2 | 1201.0 | 1186.2 | 1171.5 |
| 20° | 1104.5 | 1133.7 | 1163.0 | 1178.5 | 1194.0 | 1188.9 | 1183.7 |
| 22.5° | 1034.1 | 1077.1 | 1120.1 | 1152.3 | 1184.5 | 1191.2 | 1198.0 |
| 25° | 971.6 | 1023.8 | 1076.0 | 1124.9 | 1173.8 | 1195.0 | 1216.3 |
| 27.5° | 919.9 | 977.8 | 1035.7 | 1100.4 | 1165.1 | 1203.1 | 1241.1 |
| 30° | 881.4 | 941.7 | 1002.0 | 1081.7 | 1161.3 | 1218.0 | 1274.7 |
| 32.5° | 865.4 | 922.1 | 978.8 | 1068.9 | 1159.0 | 1236.6 | 1314.2 |
| 35° | 905.8 | 945.2 | 984.6 | 1078.5 | 1172.4 | 1267.3 | 1362.3 |
| 37.5° | 1044.0 | 1046.5 | 1049.1 | 1134.5 | 1219.8 | 1331.5 | 1443.2 |
| 40° | 1285.2 | 1240.4 | 1195.6 | 1259.1 | 1322.6 | 1444.1 | 1565.6 |
| 42.5° | 1609.0 | 1511.3 | 1413.6 | 1450.1 | 1486.7 | 1607.2 | 1727.8 |
| 45° | 1992.4 | 1835.8 | 1679.2 | 1695.4 | 1711.5 | 1819.8 | 1928.1 |
| 47.5° | 2413.0 | 2187.2 | 1961.4 | 1964.6 | 1967.9 | 2073.3 | 2178.6 |
| 50° | 2830.0 | 2538.9 | 2247.8 | 2247.3 | 2246.7 | 2376.8 | 2507.0 |
| 52.5° | 3232.2 | 2884.6 | 2536.9 | 2552.8 | 2568.8 | 2726.3 | 2883.9 |
| 55° | 3623.5 | 3236.6 | 2849.6 | 2911.7 | 2973.8 | 3129.5 | 3285.2 |
| 57.5° | 4012.9 | 3622.2 | 3231.5 | 3356.0 | 3480.6 | 3565.4 | 3650.1 |
| 60° | 4564.2 | 4194.5 | 3824.7 | 3979.4 | 4134.1 | 4002.4 | 3870.7 |
| 62.5° | 5120.9 | 4782.1 | 4443.4 | 4460.9 | 4478.3 | 4118.5 | 3758.7 |
| 65° | *5204.4* | *4773.9* | *4343.5* | *4276.7* | *4209.9* | *3872.2* | *3534.5* |
| 67.5° | 4836.1 | 4387.6 | 3939.1 | 3907.8 | 3876.5 | 3555.3 | 3234.1 |
| 70° | 4402.1 | 4001.0 | 3599.9 | 3585.9 | 3571.9 | 3222.6 | 2873.3 |
| 72.5° | 3892.6 | 3578.8 | 3265.1 | 3255.0 | 3244.9 | 2844.0 | 2443.2 |
| 75° | 3291.7 | 3047.6 | 2803.4 | 2766.2 | 2728.9 | 2314.0 | 1899.1 |
| 77.5° | 2609.3 | 2423.7 | 2238.1 | 2184.8 | 2131.5 | 1744.2 | 1356.9 |
| 80° | 1952.5 | 1812.4 | 1672.2 | 1606.0 | 1539.7 | 1213.9 | 888.1 |
| 82.5° | 1302.8 | 1206.3 | 1109.8 | 1035.8 | 961.8 | 739.0 | 516.2 |
| 85° | 748.0 | 668.8 | 589.5 | 526.5 | 463.6 | 345.4 | 227.1 |
| 87.5° | 299.3 | 259.7 | 220.0 | 184.9 | 149.8 | 110.1 | 70.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

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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

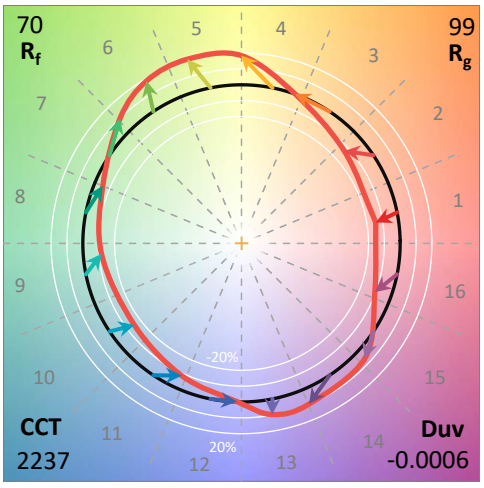
| | |
|---|---|
| Test Method: | LM-79-2008 Report |
| Number: | SP1-1908-441-10-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-722-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.***TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2237 | CRI (Ra): | 72.0 | | |
| CIE u': | 0.2876 | R1: | 68.9 | R9: | -17.4 |
| CIE v': | 0.5346 | R2: | 83.0 | R10: | 61.3 |
| Duv: | -0.0006 | R3: | 95.2 | R11: | 59.8 |
| CIE x: | 0.5005 | R4: | 66.2 | R12: | 50.5 |
| CIE y: | 0.4134 | R5: | 65.9 | R13: | 71.1 |
| CIE z: | 0.0860 | R6: | 76.3 | R14: | 96.9 |
| Peak Wavelength (nm): | 603 | R7: | 76.7 | | |
| Dominant Wavelength (nm): | 587 | R8: | 43.8 | | |
| Purity: | 74.5 | | | | |

| | |
|---|---|
| Rf: | 69.8 |
| Rg: | 99.2 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 71M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.7/41% |
| Sphere Temperature (°C): | 25.6 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

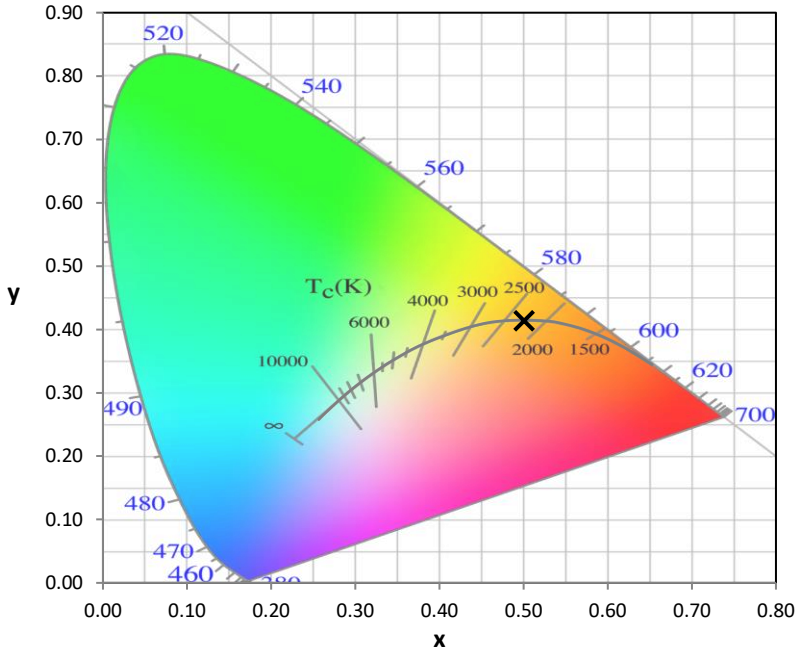
REPORT NUMBER: SP1-1908-441-10-R4

| 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 |

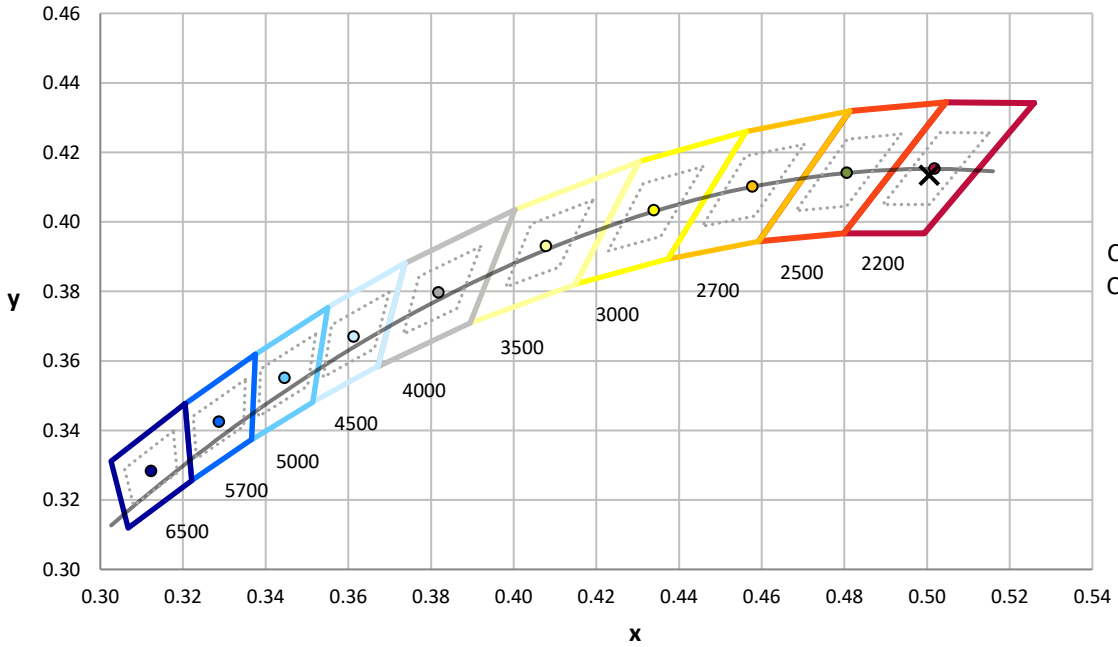
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Peachtree City, GA 30269

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## CIE 1931 Chromaticity Diagram




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



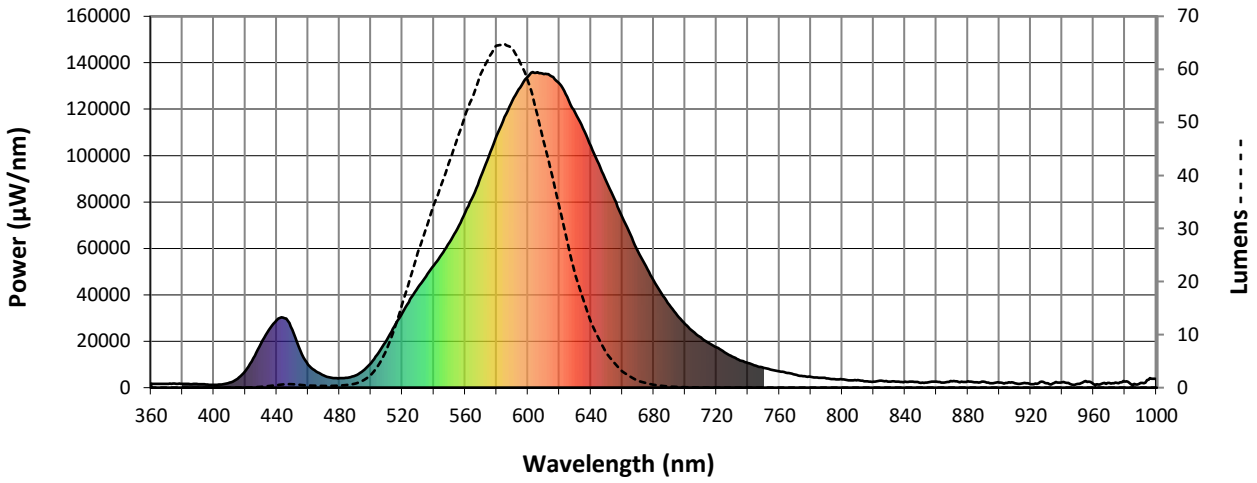

CCT = 2237K
CIE x = 0.5005
CIE y = 0.4134
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

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## Photopic Flux vs. Wavelength



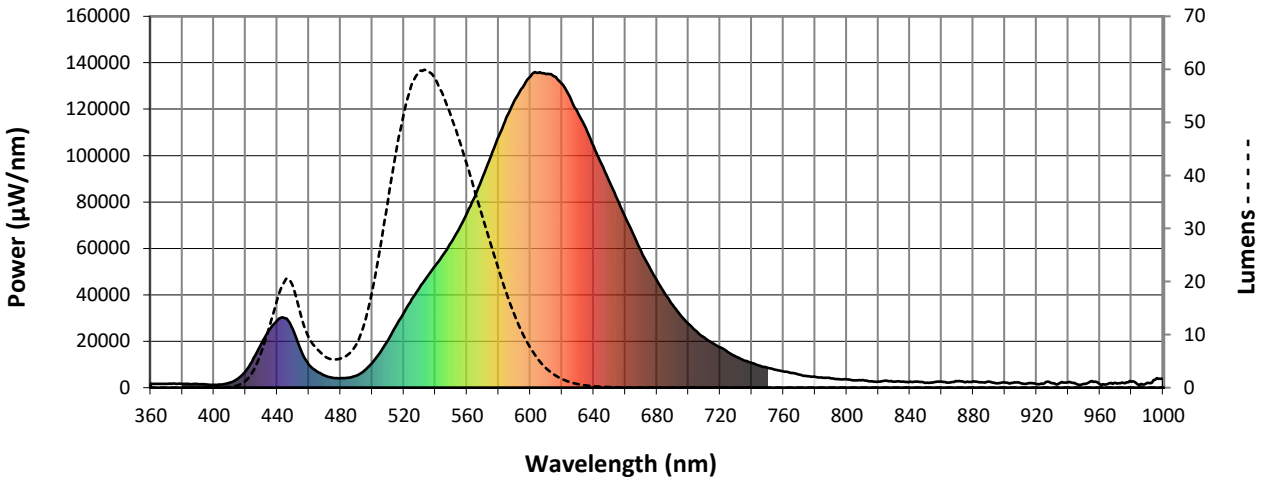

**Photopic Lumens: 5530.5**

| 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 | 1768 | 0.0 | 490 | 5206 | 0.7 | 620 | 130919 | 34.1 | 750 | 8553 | 0.0 | 880 | 2713 | 0.0 |
| 365 | 1569 | 0.0 | 495 | 7286 | 1.3 | 625 | 125335 | 27.7 | 755 | 7696 | 0.0 | 885 | 2316 | 0.0 |
| 370 | 1594 | 0.0 | 500 | 10654 | 2.4 | 630 | 118388 | 21.4 | 760 | 6978 | 0.0 | 890 | 2539 | 0.0 |
| 375 | 1744 | 0.0 | 505 | 15189 | 4.2 | 635 | 111855 | 16.8 | 765 | 6377 | 0.0 | 895 | 1933 | 0.0 |
| 380 | 1659 | 0.0 | 510 | 20541 | 7.1 | 640 | 104062 | 12.4 | 770 | 5600 | 0.0 | 900 | 2216 | 0.0 |
| 385 | 1504 | 0.0 | 515 | 26492 | 11.0 | 645 | 96365 | 9.3 | 775 | 5000 | 0.0 | 905 | 2067 | 0.0 |
| 390 | 1541 | 0.0 | 520 | 32294 | 15.7 | 650 | 88651 | 6.5 | 780 | 4709 | 0.0 | 910 | 1959 | 0.0 |
| 395 | 1355 | 0.0 | 525 | 38123 | 20.5 | 655 | 81152 | 4.7 | 785 | 4305 | 0.0 | 915 | 1874 | 0.0 |
| 400 | 1243 | 0.0 | 530 | 43232 | 25.5 | 660 | 73523 | 3.1 | 790 | 4040 | 0.0 | 920 | 1484 | 0.0 |
| 405 | 1417 | 0.0 | 535 | 48012 | 29.8 | 665 | 66123 | 2.1 | 795 | 3642 | 0.0 | 925 | 1914 | 0.0 |
| 410 | 2147 | 0.0 | 540 | 52623 | 34.3 | 670 | 58677 | 1.3 | 800 | 3594 | 0.0 | 930 | 1948 | 0.0 |
| 415 | 3837 | 0.0 | 545 | 57516 | 38.3 | 675 | 52349 | 0.9 | 805 | 3190 | 0.0 | 935 | 2079 | 0.0 |
| 420 | 7159 | 0.0 | 550 | 62613 | 42.5 | 680 | 46159 | 0.5 | 810 | 3241 | 0.0 | 940 | 2263 | 0.0 |
| 425 | 12599 | 0.1 | 555 | 68554 | 46.8 | 685 | 40525 | 0.3 | 815 | 2732 | 0.0 | 945 | 1688 | 0.0 |
| 430 | 19019 | 0.2 | 560 | 75325 | 51.2 | 690 | 35615 | 0.2 | 820 | 2612 | 0.0 | 950 | 1560 | 0.0 |
| 435 | 24875 | 0.3 | 565 | 82533 | 54.9 | 695 | 31158 | 0.1 | 825 | 2966 | 0.0 | 955 | 2826 | 0.0 |
| 440 | 29103 | 0.5 | 570 | 90909 | 59.1 | 700 | 27409 | 0.1 | 830 | 2574 | 0.0 | 960 | 1477 | 0.0 |
| 445 | 29901 | 0.6 | 575 | 99621 | 62.0 | 705 | 24204 | 0.1 | 835 | 2633 | 0.0 | 965 | 1568 | 0.0 |
| 450 | 24862 | 0.6 | 580 | 108484 | 64.5 | 710 | 21558 | 0.0 | 840 | 2526 | 0.0 | 970 | 2030 | 0.0 |
| 455 | 15942 | 0.5 | 585 | 116679 | 64.8 | 715 | 19222 | 0.0 | 845 | 2631 | 0.0 | 975 | 1986 | 0.0 |
| 460 | 9916 | 0.4 | 590 | 123752 | 64.0 | 720 | 17310 | 0.0 | 850 | 2079 | 0.0 | 980 | 2540 | 0.0 |
| 465 | 7051 | 0.4 | 595 | 129324 | 61.3 | 725 | 15280 | 0.0 | 855 | 2309 | 0.0 | 985 | 1139 | 0.0 |
| 470 | 5227 | 0.3 | 600 | 134082 | 57.8 | 730 | 13282 | 0.0 | 860 | 2528 | 0.0 | 990 | 2018 | 0.0 |
| 475 | 4257 | 0.3 | 605 | 135698 | 52.6 | 735 | 11753 | 0.0 | 865 | 2121 | 0.0 | 995 | 3445 | 0.0 |
| 480 | 4052 | 0.4 | 610 | 135144 | 46.4 | 740 | 10654 | 0.0 | 870 | 2751 | 0.0 | 1000 | 3704 | 0.0 |
| 485 | 4298 | 0.5 | 615 | 134180 | 40.5 | 745 | 9451 | 0.0 | 875 | 2317 | 0.0 | | | |

Cooper Lighting Solutions Photometric Lab
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## Scotopic Flux vs. Wavelength



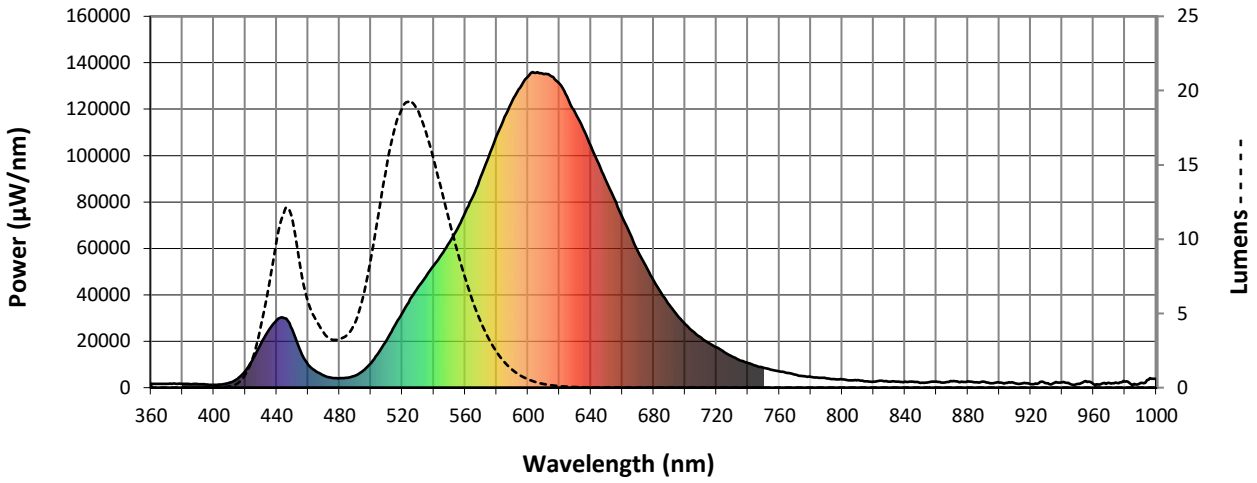

**Scotopic Lumens: 4696.9** **S/P: 0.85**

| 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 | 1768 | 0.0 | 490 | 5206 | 4.3 | 620 | 130919 | 0.1 | 750 | 8553 | 0.0 | 880 | 2713 | 0.0 |
| 365 | 1569 | 0.0 | 495 | 7286 | 6.0 | 625 | 125335 | 0.1 | 755 | 7696 | 0.0 | 885 | 2316 | 0.0 |
| 370 | 1594 | 0.0 | 500 | 10654 | 8.6 | 630 | 118388 | 0.0 | 760 | 6978 | 0.0 | 890 | 2539 | 0.0 |
| 375 | 1744 | 0.0 | 505 | 15189 | 11.7 | 635 | 111855 | 0.0 | 765 | 6377 | 0.0 | 895 | 1933 | 0.0 |
| 380 | 1659 | 0.0 | 510 | 20541 | 14.7 | 640 | 104062 | 0.0 | 770 | 5600 | 0.0 | 900 | 2216 | 0.0 |
| 385 | 1504 | 0.0 | 515 | 26492 | 17.3 | 645 | 96365 | 0.0 | 775 | 5000 | 0.0 | 905 | 2067 | 0.0 |
| 390 | 1541 | 0.0 | 520 | 32294 | 18.8 | 650 | 88651 | 0.0 | 780 | 4709 | 0.0 | 910 | 1959 | 0.0 |
| 395 | 1355 | 0.0 | 525 | 38123 | 19.3 | 655 | 81152 | 0.0 | 785 | 4305 | 0.0 | 915 | 1874 | 0.0 |
| 400 | 1243 | 0.0 | 530 | 43232 | 18.7 | 660 | 73523 | 0.0 | 790 | 4040 | 0.0 | 920 | 1484 | 0.0 |
| 405 | 1417 | 0.0 | 535 | 48012 | 17.3 | 665 | 66123 | 0.0 | 795 | 3642 | 0.0 | 925 | 1914 | 0.0 |
| 410 | 2147 | 0.1 | 540 | 52623 | 15.4 | 670 | 58677 | 0.0 | 800 | 3594 | 0.0 | 930 | 1948 | 0.0 |
| 415 | 3837 | 0.3 | 545 | 57516 | 13.4 | 675 | 52349 | 0.0 | 805 | 3190 | 0.0 | 935 | 2079 | 0.0 |
| 420 | 7159 | 0.8 | 550 | 62613 | 11.2 | 680 | 46159 | 0.0 | 810 | 3241 | 0.0 | 940 | 2263 | 0.0 |
| 425 | 12599 | 2.0 | 555 | 68554 | 9.2 | 685 | 40525 | 0.0 | 815 | 2732 | 0.0 | 945 | 1688 | 0.0 |
| 430 | 19019 | 4.0 | 560 | 75325 | 7.4 | 690 | 35615 | 0.0 | 820 | 2612 | 0.0 | 950 | 1560 | 0.0 |
| 435 | 24875 | 6.6 | 565 | 82533 | 5.8 | 695 | 31158 | 0.0 | 825 | 2966 | 0.0 | 955 | 2826 | 0.0 |
| 440 | 29103 | 9.7 | 570 | 90909 | 4.4 | 700 | 27409 | 0.0 | 830 | 2574 | 0.0 | 960 | 1477 | 0.0 |
| 445 | 29901 | 11.8 | 575 | 99621 | 3.3 | 705 | 24204 | 0.0 | 835 | 2633 | 0.0 | 965 | 1568 | 0.0 |
| 450 | 24862 | 11.5 | 580 | 108484 | 2.4 | 710 | 21558 | 0.0 | 840 | 2526 | 0.0 | 970 | 2030 | 0.0 |
| 455 | 15942 | 8.4 | 585 | 116679 | 1.7 | 715 | 19222 | 0.0 | 845 | 2631 | 0.0 | 975 | 1986 | 0.0 |
| 460 | 9916 | 5.8 | 590 | 123752 | 1.2 | 720 | 17310 | 0.0 | 850 | 2079 | 0.0 | 980 | 2540 | 0.0 |
| 465 | 7051 | 4.6 | 595 | 129324 | 0.8 | 725 | 15280 | 0.0 | 855 | 2309 | 0.0 | 985 | 1139 | 0.0 |
| 470 | 5227 | 3.7 | 600 | 134082 | 0.6 | 730 | 13282 | 0.0 | 860 | 2528 | 0.0 | 990 | 2018 | 0.0 |
| 475 | 4257 | 3.3 | 605 | 135698 | 0.4 | 735 | 11753 | 0.0 | 865 | 2121 | 0.0 | 995 | 3445 | 0.0 |
| 480 | 4052 | 3.3 | 610 | 135144 | 0.2 | 740 | 10654 | 0.0 | 870 | 2751 | 0.0 | 1000 | 3704 | 0.0 |
| 485 | 4298 | 3.5 | 615 | 134180 | 0.2 | 745 | 9451 | 0.0 | 875 | 2317 | 0.0 | | | |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1470.8** **M/P: 0.27**

| 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 | 1768 | 0.0 | 490 | 5206 | 8.0 | 620 | 130919 | 1.6 | 750 | 8553 | 0.0 | 880 | 2713 | 0.0 |
| 365 | 1569 | 0.0 | 495 | 7286 | 11.8 | 625 | 125335 | 1.1 | 755 | 7696 | 0.0 | 885 | 2316 | 0.0 |
| 370 | 1594 | 0.0 | 500 | 10654 | 17.8 | 630 | 118388 | 0.7 | 760 | 6978 | 0.0 | 890 | 2539 | 0.0 |
| 375 | 1744 | 0.0 | 505 | 15189 | 25.8 | 635 | 111855 | 0.4 | 765 | 6377 | 0.0 | 895 | 1933 | 0.0 |
| 380 | 1659 | 0.0 | 510 | 20541 | 34.8 | 640 | 104062 | 0.3 | 770 | 5600 | 0.0 | 900 | 2216 | 0.0 |
| 385 | 1504 | 0.0 | 515 | 26492 | 43.9 | 645 | 96365 | 0.2 | 775 | 5000 | 0.0 | 905 | 2067 | 0.0 |
| 390 | 1541 | 0.0 | 520 | 32294 | 51.3 | 650 | 88651 | 0.1 | 780 | 4709 | 0.0 | 910 | 1959 | 0.0 |
| 395 | 1355 | 0.0 | 525 | 38123 | 57.0 | 655 | 81152 | 0.1 | 785 | 4305 | 0.0 | 915 | 1874 | 0.0 |
| 400 | 1243 | 0.0 | 530 | 43232 | 59.6 | 660 | 73523 | 0.0 | 790 | 4040 | 0.0 | 920 | 1484 | 0.0 |
| 405 | 1417 | 0.0 | 535 | 48012 | 59.8 | 665 | 66123 | 0.0 | 795 | 3642 | 0.0 | 925 | 1914 | 0.0 |
| 410 | 2147 | 0.1 | 540 | 52623 | 58.1 | 670 | 58677 | 0.0 | 800 | 3594 | 0.0 | 930 | 1948 | 0.0 |
| 415 | 3837 | 0.4 | 545 | 57516 | 55.1 | 675 | 52349 | 0.0 | 805 | 3190 | 0.0 | 935 | 2079 | 0.0 |
| 420 | 7159 | 1.2 | 550 | 62613 | 51.2 | 680 | 46159 | 0.0 | 810 | 3241 | 0.0 | 940 | 2263 | 0.0 |
| 425 | 12599 | 3.1 | 555 | 68554 | 46.9 | 685 | 40525 | 0.0 | 815 | 2732 | 0.0 | 945 | 1688 | 0.0 |
| 430 | 19019 | 6.5 | 560 | 75325 | 42.1 | 690 | 35615 | 0.0 | 820 | 2612 | 0.0 | 950 | 1560 | 0.0 |
| 435 | 24875 | 11.1 | 565 | 82533 | 37.0 | 695 | 31158 | 0.0 | 825 | 2966 | 0.0 | 955 | 2826 | 0.0 |
| 440 | 29103 | 16.3 | 570 | 90909 | 32.1 | 700 | 27409 | 0.0 | 830 | 2574 | 0.0 | 960 | 1477 | 0.0 |
| 445 | 29901 | 20.0 | 575 | 99621 | 27.1 | 705 | 24204 | 0.0 | 835 | 2633 | 0.0 | 965 | 1568 | 0.0 |
| 450 | 24862 | 19.3 | 580 | 108484 | 22.4 | 710 | 21558 | 0.0 | 840 | 2526 | 0.0 | 970 | 2030 | 0.0 |
| 455 | 15942 | 13.9 | 585 | 116679 | 17.8 | 715 | 19222 | 0.0 | 845 | 2631 | 0.0 | 975 | 1986 | 0.0 |
| 460 | 9916 | 9.6 | 590 | 123752 | 13.8 | 720 | 17310 | 0.0 | 850 | 2079 | 0.0 | 980 | 2540 | 0.0 |
| 465 | 7051 | 7.4 | 595 | 129324 | 10.3 | 725 | 15280 | 0.0 | 855 | 2309 | 0.0 | 985 | 1139 | 0.0 |
| 470 | 5227 | 6.0 | 600 | 134082 | 7.6 | 730 | 13282 | 0.0 | 860 | 2528 | 0.0 | 990 | 2018 | 0.0 |
| 475 | 4257 | 5.3 | 605 | 135698 | 5.3 | 735 | 11753 | 0.0 | 865 | 2121 | 0.0 | 995 | 3445 | 0.0 |
| 480 | 4052 | 5.5 | 610 | 135144 | 3.7 | 740 | 10654 | 0.0 | 870 | 2751 | 0.0 | 1000 | 3704 | 0.0 |
| 485 | 4298 | 6.2 | 615 | 134180 | 2.5 | 745 | 9451 | 0.0 | 875 | 2317 | 0.0 | | | |

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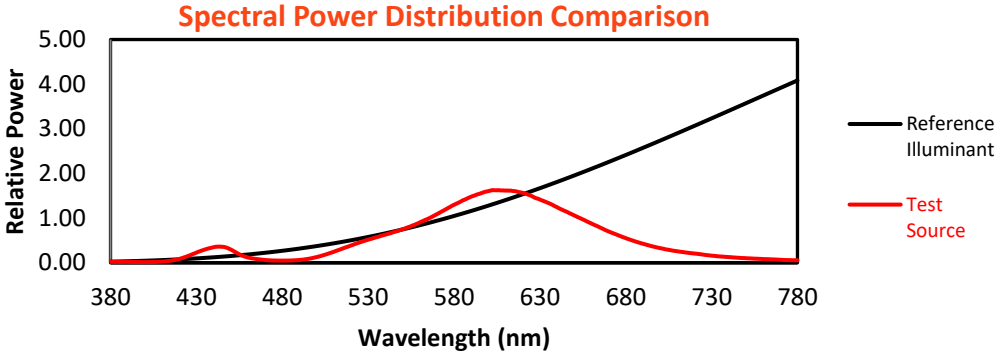
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## TM-30-18

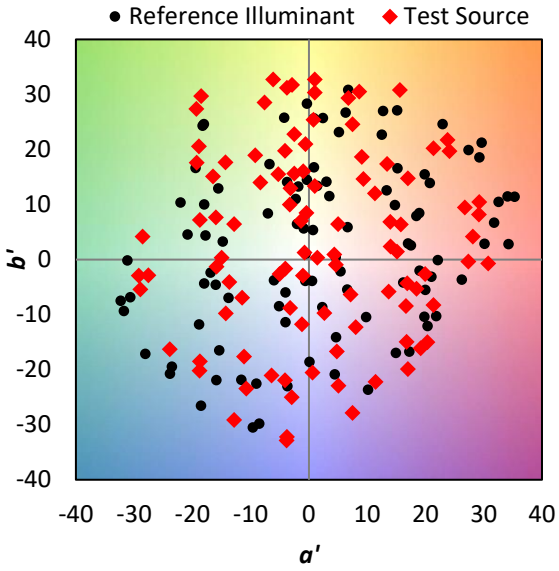
### Summary

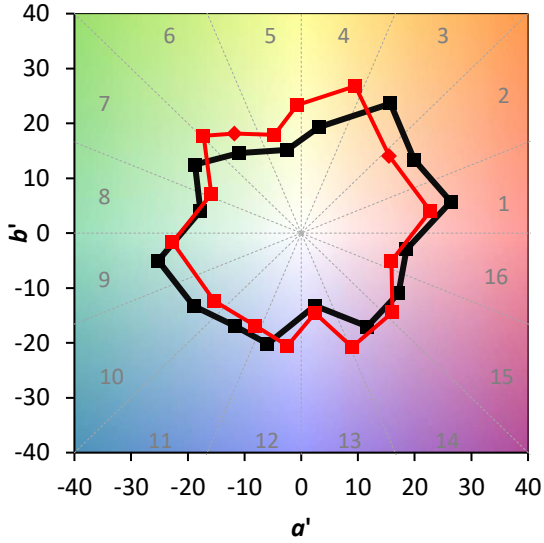
$R_f$ = 69.8
$R_g$ = 99.2
CIE $R_a$ = 72.0
$R_9$ = -17.4

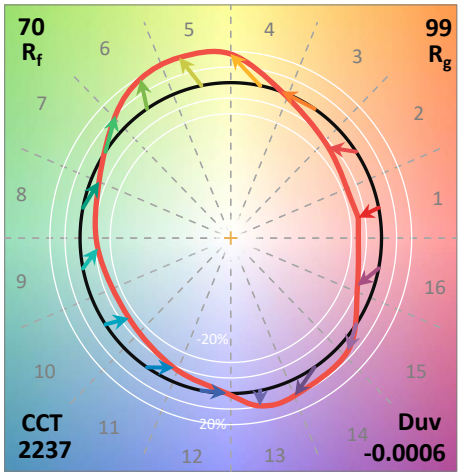
### Spectral Power Distribution Comparison

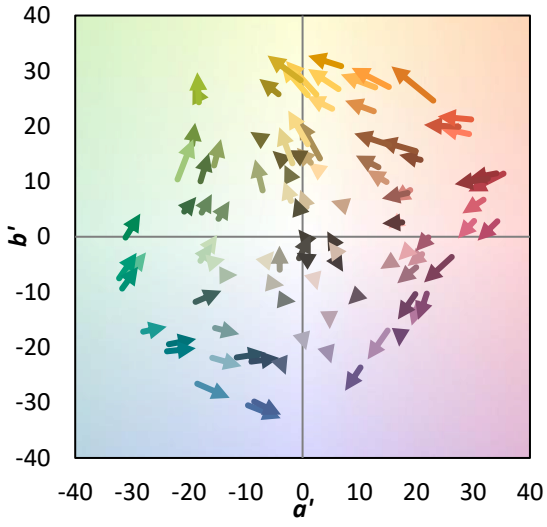



### Color Vector Graphics



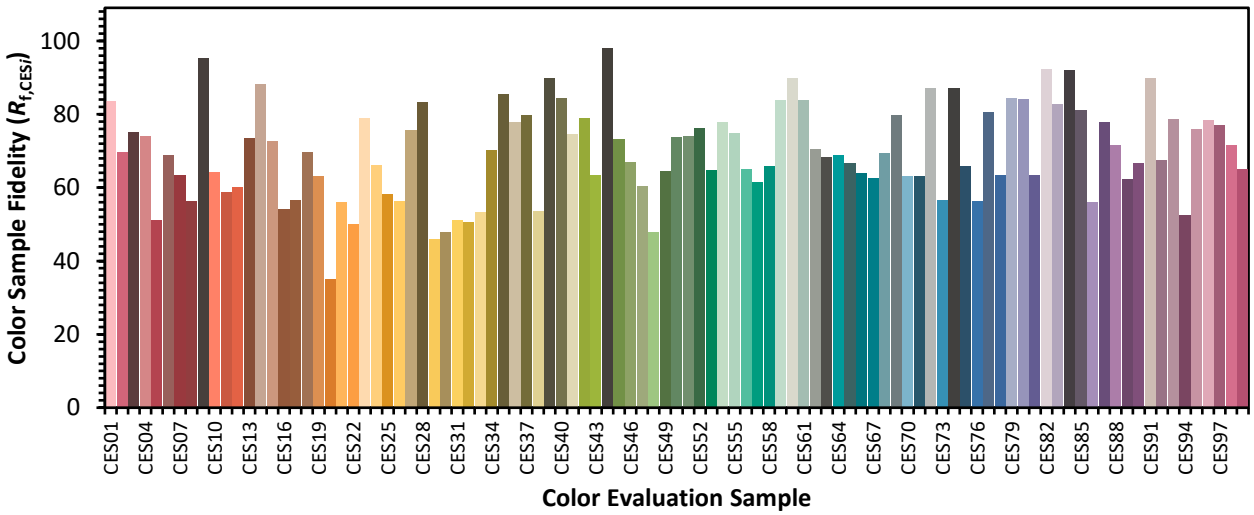
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 56 | CES51 = 74 | CES76 = 56 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
| CES04 = 72 | CES29 = 46 | CES54 = 78 | CES79 = 84 |
| CES05 = 52 | CES30 = 48 | CES55 = 75 | CES80 = 84 |
| CES06 = 52 | CES31 = 51 | CES56 = 65 | CES81 = 63 |
| CES07 = 44 | CES32 = 51 | CES57 = 62 | CES82 = 92 |
| CES08 = 42 | CES33 = 53 | CES58 = 66 | CES83 = 83 |
| CES09 = 29 | CES34 = 70 | CES59 = 84 | CES84 = 92 |
| CES10 = 78 | CES35 = 85 | CES60 = 90 | CES85 = 81 |
| CES11 = 61 | CES36 = 78 | CES61 = 84 | CES86 = 56 |
| CES12 = 68 | CES37 = 80 | CES62 = 70 | CES87 = 78 |
| CES13 = 45 | CES38 = 53 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 84 | CES65 = 67 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 90 |
| CES17 = 51 | CES42 = 79 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 64 | CES68 = 69 | CES93 = 79 |
| CES19 = 74 | CES44 = 98 | CES69 = 80 | CES94 = 52 |
| CES20 = 68 | CES45 = 73 | CES70 = 63 | CES95 = 76 |
| CES21 = 89 | CES46 = 67 | CES71 = 63 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 87 | CES97 = 77 |
| CES23 = 92 | CES48 = 48 | CES73 = 56 | CES98 = 71 |
| CES24 = 92 | CES49 = 64 | CES74 = 87 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |

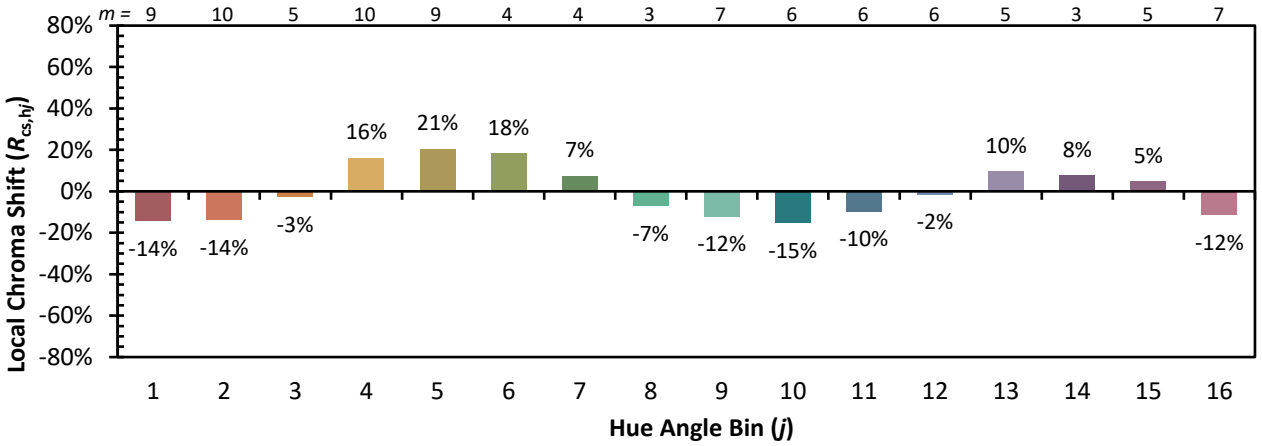


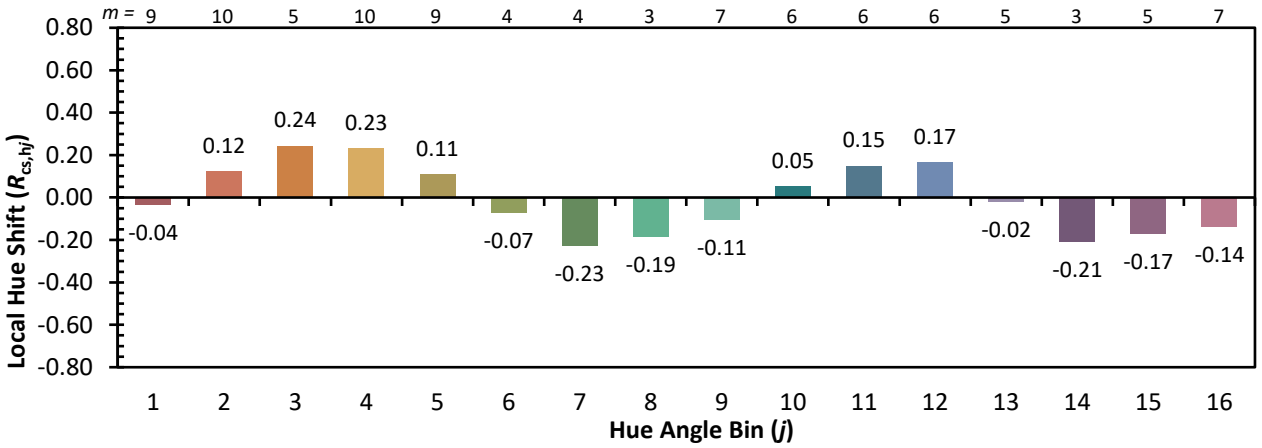
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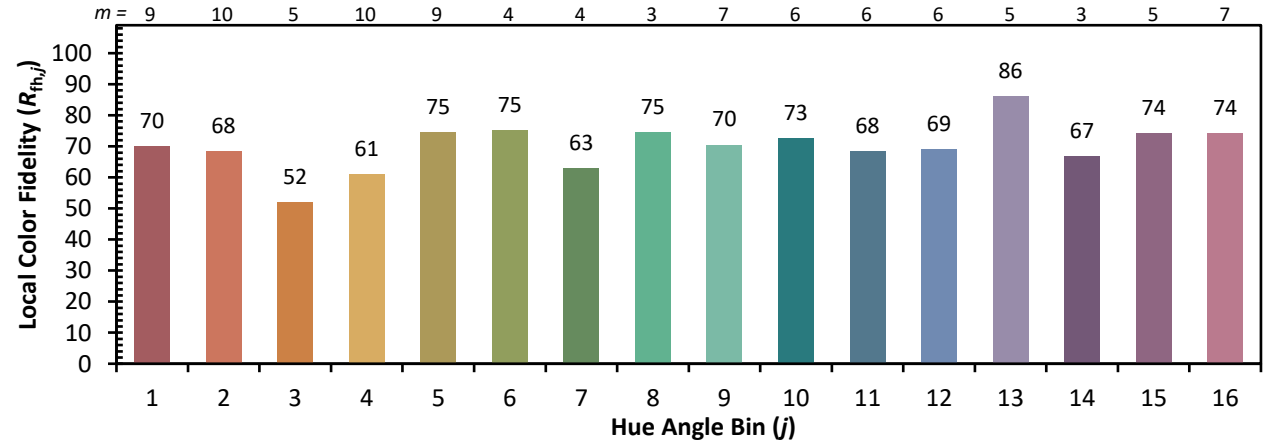
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### Color Rendition by Hue-Angle Bin



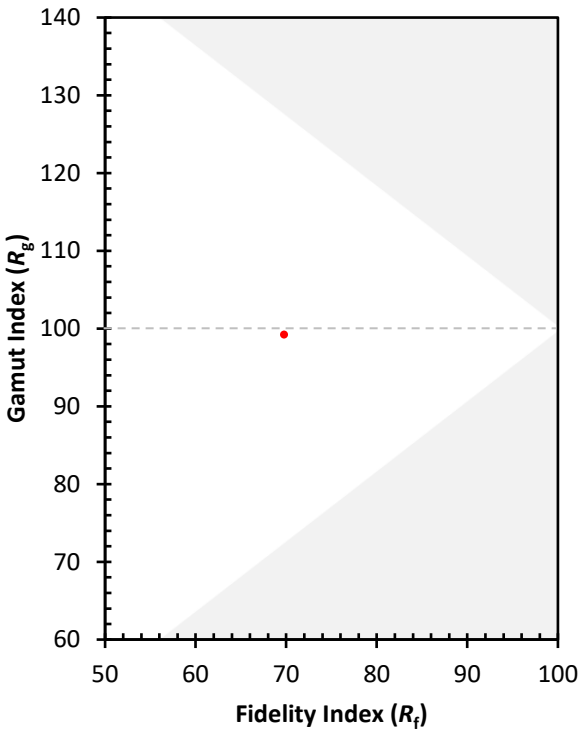



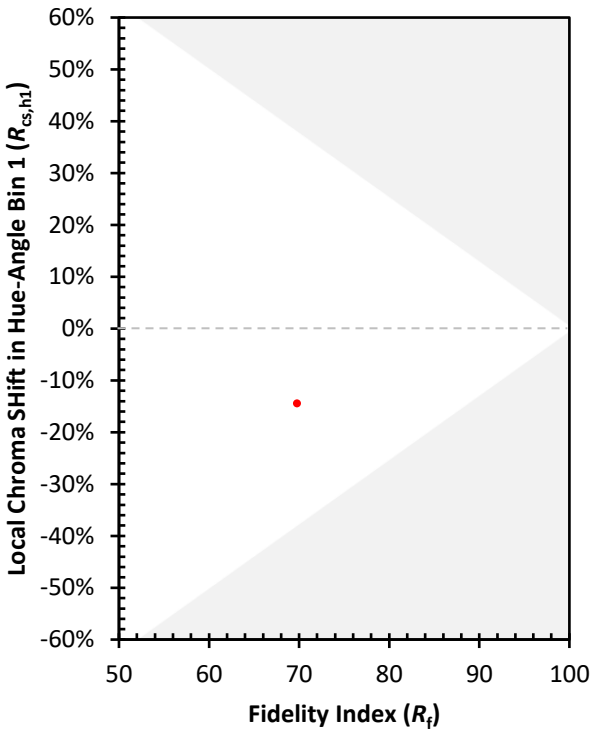
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### Measure Comparisons




(END OF REPORT)