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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1364120

Luminaire Tested: **GSS-SB1B-740-U-SLR**

Issue Date: 02/18/2026

Report Generated By 670245763

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1364120 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1B-740-U-SLR |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC |
| Light Source: | (26) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5151.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 128.8 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G1 |

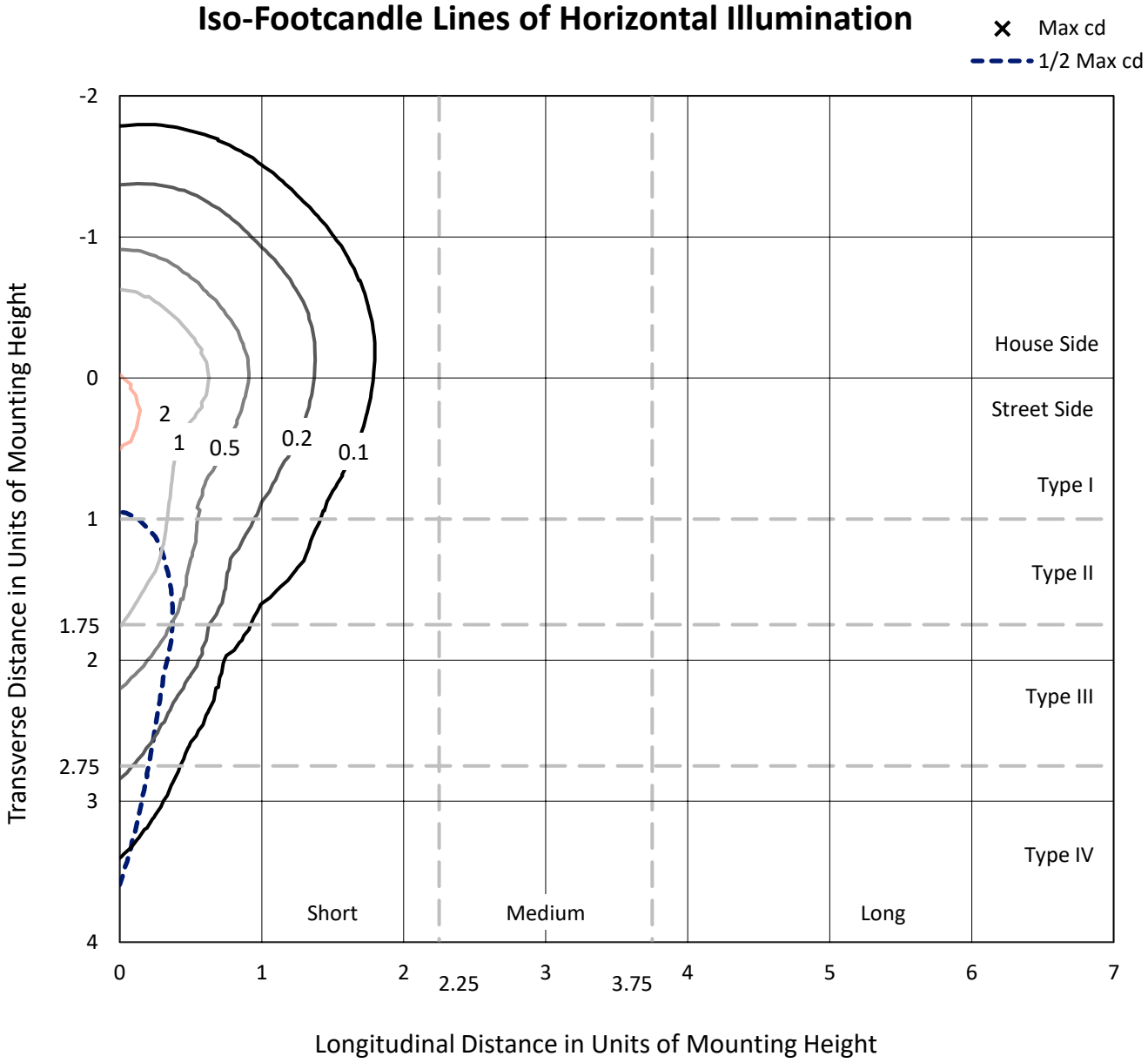
| | |
|---|---|
| Input Watts (W): | 40 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 5.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



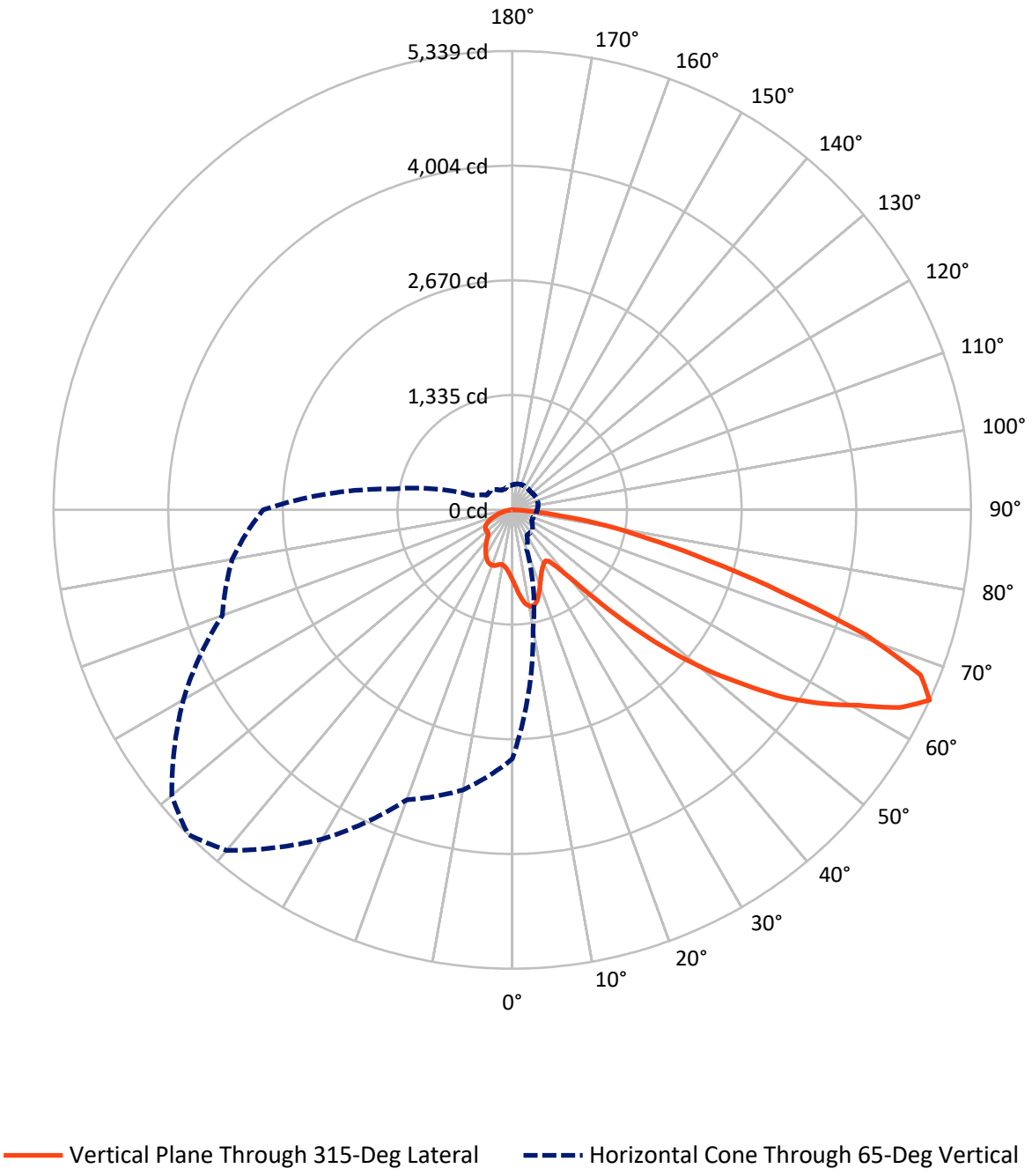

Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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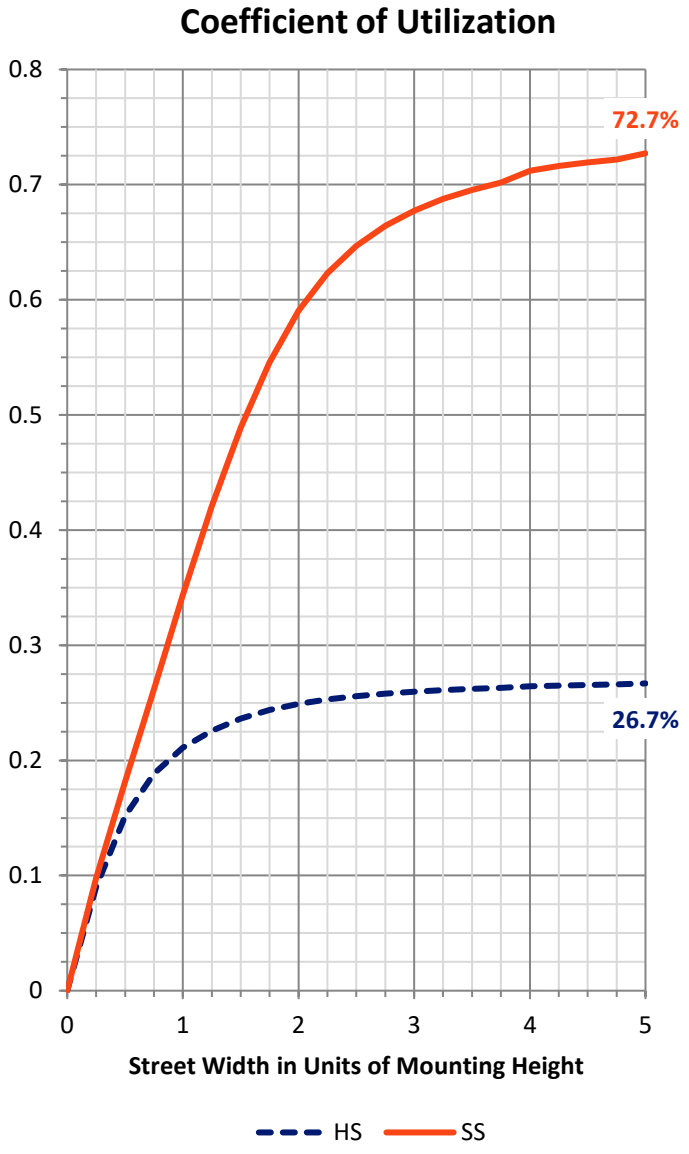
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1385.9 | 0.0 | 1385.9 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 3765.7 | 0.0 | 3765.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 5151.5 | 0.0 | 5151.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 81.1 | 1.6 |
| 10°-20° | 248.6 | 4.8 |
| 20°-30° | 384.7 | 7.5 |
| 30°-40° | 477.3 | 9.3 |
| 40°-50° | 697.9 | 13.5 |
| 50°-60° | 1093.2 | 21.2 |
| 60°-70° | 1297.1 | 25.2 |
| 70°-80° | 756.6 | 14.7 |
| 80°-90° | 115.1 | 2.2 |
| 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° | 5151.5 | 100.0 |
| 0°-180° | 5151.5 | 100.0 |



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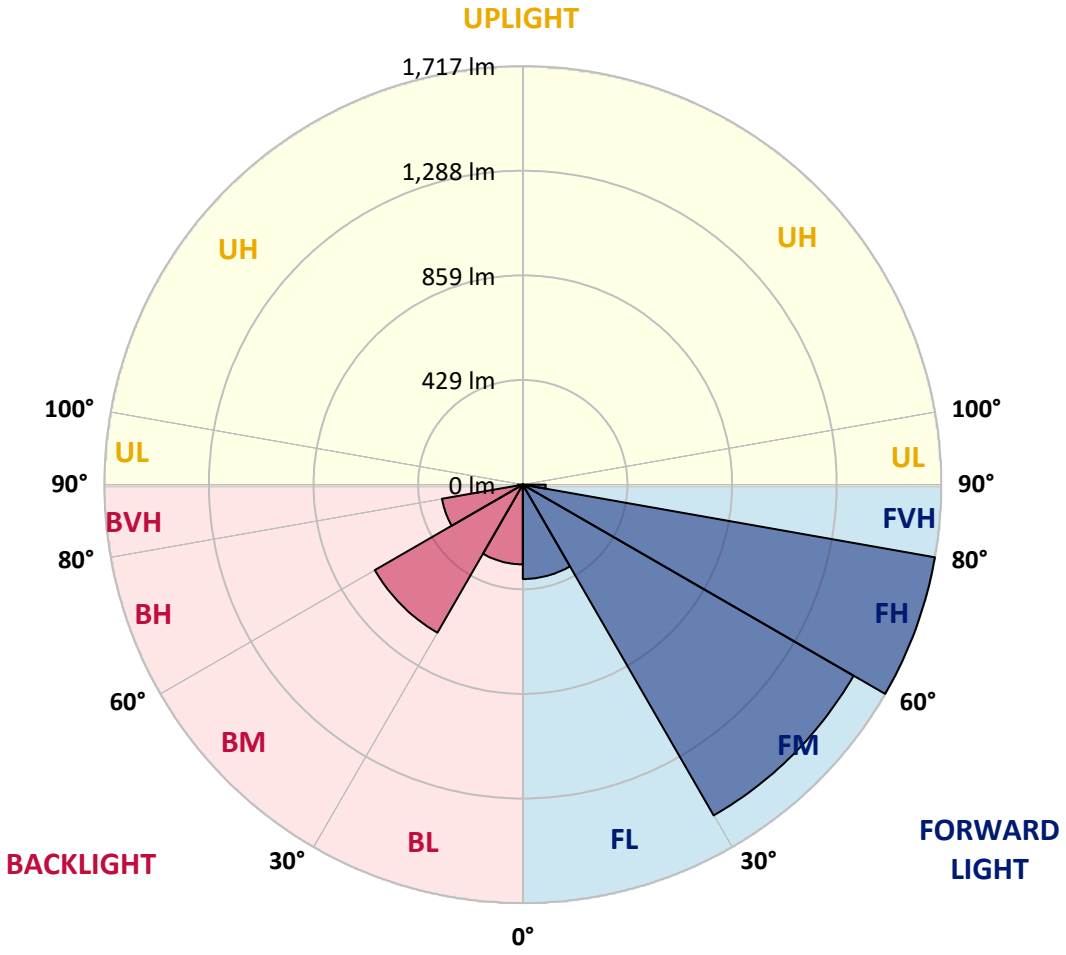
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 387.2 | 7.5 | | | |
| FM | (30°-60°) | 1567.2 | 30.4 | | | |
| FH | (60°-80°) | 1717.1 | 33.3 | | | G1/1800 |
| FVH | (80°-90°) | 94.1 | 1.8 | | | G1/100 |
| BL | (0°-30°) | 327.2 | 6.4 | B1/500 | | |
| BM | (30°-60°) | 701.2 | 13.6 | B1/1000 | | |
| BH | (60°-80°) | 336.6 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.0 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 887.6 | 879.5 | 871.6 | 864.3 | 857.0 | 849.6 | 842.2 | 835.2 | 828.0 | 820.8 | 814.5 |
| 5° | 948.0 | 933.8 | 919.7 | 904.8 | 890.1 | 875.6 | 861.1 | 847.4 | 833.8 | 819.5 | 807.3 |
| 7.5° | 1009.1 | 985.2 | 961.3 | 938.7 | 916.2 | 896.0 | 875.8 | 857.8 | 839.7 | 820.8 | 806.1 |
| 10° | 1047.6 | 1019.0 | 990.2 | 962.3 | 934.2 | 909.4 | 884.4 | 863.6 | 842.8 | 822.7 | 806.9 |
| 12.5° | 1067.1 | 1038.6 | 1010.1 | 978.8 | 947.4 | 919.6 | 891.7 | 868.8 | 846.0 | 823.9 | 808.6 |
| 15° | 1076.5 | 1047.7 | 1019.0 | 987.1 | 955.2 | 925.2 | 895.1 | 869.3 | 843.5 | 818.9 | 805.3 |
| 17.5° | 1079.1 | 1052.1 | 1025.3 | 991.3 | 957.2 | 923.0 | 888.8 | 858.7 | 828.7 | 800.0 | 788.4 |
| 20° | 1087.3 | 1060.0 | 1032.8 | 996.3 | 959.8 | 919.6 | 879.4 | 839.8 | 800.3 | 762.2 | 754.9 |
| 22.5° | 1096.1 | 1071.1 | 1046.3 | 1006.1 | 966.1 | 916.9 | 867.8 | 818.1 | 768.5 | 723.2 | 716.2 |
| 25° | 1109.9 | 1088.4 | 1066.8 | 1023.0 | 979.2 | 916.7 | 854.2 | 792.3 | 730.5 | 678.4 | 677.8 |
| 27.5° | 1130.1 | 1113.6 | 1097.1 | 1047.7 | 998.4 | 919.1 | 839.7 | 765.9 | 691.9 | 638.7 | 641.9 |
| 30° | 1158.4 | 1145.5 | 1132.6 | 1076.9 | 1021.1 | 924.2 | 827.5 | 742.8 | 658.3 | 606.6 | 610.0 |
| 32.5° | 1193.1 | 1185.0 | 1177.0 | 1111.3 | 1045.7 | 930.0 | 814.5 | 722.7 | 630.9 | 583.3 | 583.3 |
| 35° | 1251.7 | 1241.6 | 1231.5 | 1147.9 | 1064.3 | 928.6 | 793.1 | 699.7 | 606.2 | 569.5 | 561.6 |
| 37.5° | 1326.0 | 1314.0 | 1302.1 | 1192.4 | 1082.8 | 924.7 | 766.6 | 674.3 | 582.1 | 553.1 | 538.2 |
| 40° | 1435.6 | 1412.0 | 1388.4 | 1243.5 | 1098.6 | 915.9 | 733.2 | 643.9 | 554.6 | 531.7 | 513.0 |
| 42.5° | 1589.3 | 1539.4 | 1489.4 | 1299.9 | 1110.2 | 900.7 | 691.0 | 607.8 | 524.4 | 508.3 | 485.3 |
| 45° | 1780.2 | 1700.2 | 1620.2 | 1376.5 | 1132.9 | 890.2 | 647.6 | 571.0 | 494.5 | 480.0 | 457.1 |
| 47.5° | 1962.8 | 1861.6 | 1760.3 | 1455.3 | 1150.2 | 878.0 | 605.7 | 534.4 | 463.4 | 446.6 | 425.2 |
| 50° | 2174.5 | 2037.2 | 1899.9 | 1523.9 | 1148.0 | 857.2 | 566.3 | 501.9 | 437.4 | 414.5 | 393.3 |
| 52.5° | 2446.0 | 2227.9 | 2009.7 | 1556.4 | 1103.0 | 814.6 | 526.4 | 472.7 | 419.3 | 389.9 | 367.2 |
| 55° | 2770.4 | 2419.5 | 2068.7 | 1547.9 | 1027.0 | 758.2 | 489.1 | 448.3 | 407.2 | 378.0 | 351.2 |
| 57.5° | 3101.1 | 2580.4 | 2059.9 | 1501.1 | 942.4 | 699.1 | 455.8 | 427.6 | 399.4 | 374.8 | 342.0 |
| 60° | 3349.3 | 2652.5 | 1955.5 | 1389.1 | 822.7 | 624.4 | 426.1 | 406.3 | 386.5 | 367.2 | 334.5 |
| 62.5° | 3246.6 | 2492.6 | 1738.6 | 1205.6 | 672.5 | 529.6 | 386.8 | 375.7 | 364.7 | 356.5 | 325.3 |
| 65° | *2900.2* | *2149.9* | *1399.7* | *945.6* | *491.6* | *416.3* | *340.8* | *338.4* | *336.1* | *333.9* | *308.0* |
| 67.5° | 2575.1 | 1846.4 | 1117.7 | 735.9 | 354.0 | 318.2 | 282.5 | 289.1 | 295.8 | 299.2 | 281.6 |
| 70° | 2264.0 | 1568.6 | 873.3 | 563.9 | 254.5 | 241.9 | 229.3 | 239.2 | 249.2 | 248.2 | 239.6 |
| 72.5° | 1943.3 | 1302.6 | 661.7 | 423.9 | 186.2 | 186.0 | 185.8 | 193.4 | 200.9 | 190.9 | 196.3 |
| 75° | 1591.2 | 1040.0 | 488.8 | 314.2 | 139.6 | 138.7 | 138.0 | 146.9 | 156.0 | 160.0 | 163.5 |
| 77.5° | 1058.3 | 682.3 | 306.4 | 203.1 | 99.8 | 100.5 | 101.0 | 110.9 | 120.7 | 132.3 | 132.9 |
| 80° | 621.1 | 391.2 | 161.3 | 112.3 | 63.2 | 64.0 | 64.5 | 74.8 | 85.0 | 101.4 | 100.8 |
| 82.5° | 310.6 | 196.0 | 81.6 | 60.3 | 39.1 | 39.2 | 39.3 | 44.3 | 49.4 | 58.6 | 61.1 |
| 85° | 70.6 | 46.6 | 22.7 | 19.1 | 15.7 | 16.5 | 17.4 | 20.7 | 23.9 | 29.0 | 30.5 |
| 87.5° | 5.7 | 5.5 | 5.3 | 5.2 | 5.0 | 5.3 | 5.7 | 6.3 | 6.9 | 7.6 | 8.8 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 807.7 | 801.0 | 795.7 | 790.6 | 786.0 | 781.4 | 775.9 | 770.4 | 766.5 | 762.5 | 759.8 |
| 5° | 795.2 | 783.4 | 773.5 | 763.7 | 755.7 | 747.3 | 740.0 | 732.6 | 726.8 | 720.9 | 716.1 |
| 7.5° | 791.3 | 776.7 | 764.0 | 751.1 | 740.3 | 729.5 | 720.4 | 711.2 | 702.5 | 693.9 | 688.4 |
| 10° | 791.4 | 776.1 | 763.0 | 749.9 | 738.4 | 726.9 | 715.0 | 703.0 | 693.4 | 683.8 | 675.5 |
| 12.5° | 795.7 | 783.0 | 773.8 | 764.7 | 754.1 | 743.6 | 729.3 | 715.0 | 702.0 | 689.1 | 678.9 |
| 15° | 797.0 | 788.7 | 787.9 | 787.2 | 783.5 | 779.8 | 766.6 | 753.4 | 735.5 | 717.5 | 702.9 |
| 17.5° | 787.3 | 786.1 | 798.6 | 811.1 | 818.3 | 825.5 | 816.3 | 806.9 | 781.7 | 756.5 | 734.7 |
| 20° | 762.1 | 769.1 | 793.6 | 817.9 | 837.3 | 856.7 | 855.7 | 854.8 | 821.9 | 788.9 | 760.3 |
| 22.5° | 726.8 | 737.3 | 769.1 | 801.0 | 829.0 | 857.0 | 864.1 | 871.2 | 838.9 | 806.6 | 771.3 |
| 25° | 689.3 | 700.7 | 730.2 | 759.7 | 789.8 | 819.9 | 833.3 | 846.6 | 820.0 | 793.5 | 759.2 |
| 27.5° | 652.9 | 663.9 | 685.9 | 707.8 | 732.0 | 756.2 | 771.2 | 786.1 | 769.9 | 753.6 | 725.9 |
| 30° | 618.6 | 627.2 | 643.0 | 658.9 | 675.3 | 691.7 | 703.6 | 715.6 | 704.9 | 694.2 | 674.3 |
| 32.5° | 587.0 | 590.6 | 600.9 | 611.3 | 623.5 | 635.6 | 642.3 | 648.8 | 640.5 | 632.2 | 619.1 |
| 35° | 558.6 | 555.6 | 562.4 | 569.2 | 579.0 | 589.0 | 594.0 | 599.1 | 592.1 | 585.2 | 573.5 |
| 37.5° | 530.1 | 521.8 | 525.1 | 528.1 | 536.6 | 544.9 | 552.1 | 559.4 | 554.3 | 549.3 | 539.3 |
| 40° | 500.9 | 488.8 | 488.6 | 488.2 | 496.3 | 504.2 | 513.3 | 522.2 | 521.3 | 520.3 | 510.9 |
| 42.5° | 469.9 | 454.6 | 452.9 | 451.3 | 459.2 | 467.2 | 476.7 | 486.3 | 488.2 | 490.1 | 482.3 |
| 45° | 441.2 | 425.6 | 423.1 | 420.5 | 427.3 | 434.4 | 444.9 | 455.4 | 459.8 | 464.3 | 457.2 |
| 47.5° | 411.7 | 398.1 | 396.6 | 395.0 | 402.1 | 409.5 | 421.0 | 432.8 | 437.4 | 442.2 | 437.4 |
| 50° | 382.2 | 371.0 | 372.9 | 374.8 | 382.7 | 390.6 | 399.6 | 408.8 | 417.5 | 426.1 | 425.2 |
| 52.5° | 358.9 | 350.5 | 356.4 | 362.2 | 369.4 | 376.7 | 386.1 | 395.6 | 404.7 | 413.9 | 415.2 |
| 55° | 341.9 | 332.6 | 340.9 | 349.2 | 357.9 | 366.6 | 375.4 | 384.3 | 392.8 | 401.3 | 403.2 |
| 57.5° | 328.9 | 316.0 | 324.3 | 332.6 | 342.0 | 351.5 | 360.3 | 369.1 | 379.1 | 389.0 | 390.6 |
| 60° | 318.1 | 301.7 | 307.3 | 312.7 | 322.4 | 332.0 | 341.2 | 350.2 | 360.3 | 370.4 | 372.4 |
| 62.5° | 303.9 | 282.5 | 283.2 | 283.7 | 294.7 | 305.5 | 313.1 | 320.6 | 330.2 | 339.9 | 342.8 |
| 65° | *285.0* | *262.0* | *259.5* | *257.0* | *267.3* | *277.8* | *283.7* | *289.8* | *298.1* | *306.4* | *309.3* |
| 67.5° | 261.3 | 240.9 | 235.7 | 230.6 | 240.1 | 249.7 | 254.6 | 259.5 | 265.2 | 270.9 | 274.1 |
| 70° | 227.5 | 215.4 | 212.2 | 208.9 | 216.7 | 224.5 | 228.8 | 233.1 | 237.6 | 242.1 | 243.9 |
| 72.5° | 193.5 | 190.9 | 188.5 | 186.2 | 192.1 | 198.0 | 201.7 | 205.4 | 209.6 | 213.9 | 214.9 |
| 75° | 162.0 | 160.6 | 158.9 | 157.2 | 161.8 | 166.3 | 169.1 | 172.0 | 176.4 | 180.8 | 182.7 |
| 77.5° | 129.6 | 126.2 | 124.5 | 122.5 | 126.6 | 130.8 | 133.4 | 136.1 | 139.7 | 143.4 | 143.9 |
| 80° | 96.8 | 92.6 | 91.2 | 89.7 | 92.7 | 95.7 | 96.8 | 97.6 | 100.7 | 103.6 | 103.6 |
| 82.5° | 61.1 | 61.1 | 60.2 | 59.2 | 58.6 | 58.0 | 56.7 | 55.4 | 58.5 | 61.5 | 62.5 |
| 85° | 30.7 | 30.9 | 29.5 | 28.0 | 26.2 | 24.2 | 23.8 | 23.3 | 23.2 | 22.9 | 23.8 |
| 87.5° | 9.6 | 10.3 | 11.1 | 11.6 | 12.3 | 12.9 | 12.5 | 12.0 | 11.5 | 11.1 | 10.1 |
| 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° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 757.2 | 755.9 | 754.7 | 753.6 | 752.8 | 752.1 | 752.8 | 753.6 | 754.7 | 755.9 | 757.2 |
| 5° | 711.2 | 709.2 | 707.0 | 705.6 | 704.3 | 703.0 | 704.3 | 705.6 | 707.0 | 709.2 | 711.2 |
| 7.5° | 682.8 | 679.6 | 676.3 | 673.9 | 671.5 | 670.2 | 671.5 | 673.9 | 676.3 | 679.6 | 682.8 |
| 10° | 667.5 | 662.8 | 658.3 | 655.8 | 653.2 | 651.3 | 653.2 | 655.8 | 658.3 | 662.8 | 667.5 |
| 12.5° | 668.7 | 662.9 | 657.4 | 653.6 | 649.8 | 647.6 | 649.8 | 653.6 | 657.4 | 662.9 | 668.7 |
| 15° | 688.1 | 680.1 | 671.8 | 667.1 | 662.4 | 658.9 | 662.4 | 667.1 | 671.8 | 680.1 | 688.1 |
| 17.5° | 713.1 | 701.2 | 689.4 | 685.2 | 680.9 | 679.1 | 680.9 | 685.2 | 689.4 | 701.2 | 713.1 |
| 20° | 731.7 | 715.8 | 700.2 | 693.9 | 687.6 | 685.4 | 687.6 | 693.9 | 700.2 | 715.8 | 731.7 |
| 22.5° | 736.0 | 717.4 | 698.6 | 692.7 | 686.6 | 684.1 | 686.6 | 692.7 | 698.6 | 717.4 | 736.0 |
| 25° | 725.0 | 705.4 | 685.6 | 679.6 | 673.4 | 671.5 | 673.4 | 679.6 | 685.6 | 705.4 | 725.0 |
| 27.5° | 698.2 | 680.8 | 663.3 | 656.9 | 650.3 | 646.3 | 650.3 | 656.9 | 663.3 | 680.8 | 698.2 |
| 30° | 654.5 | 641.5 | 628.7 | 624.6 | 620.5 | 618.6 | 620.5 | 624.6 | 628.7 | 641.5 | 654.5 |
| 32.5° | 606.0 | 597.9 | 589.9 | 587.2 | 584.6 | 583.3 | 584.6 | 587.2 | 589.9 | 597.9 | 606.0 |
| 35° | 561.9 | 556.1 | 550.3 | 548.2 | 546.1 | 544.3 | 546.1 | 548.2 | 550.3 | 556.1 | 561.9 |
| 37.5° | 529.4 | 522.6 | 515.5 | 511.8 | 508.0 | 505.2 | 508.0 | 511.8 | 515.5 | 522.6 | 529.4 |
| 40° | 501.4 | 491.6 | 481.9 | 476.7 | 471.4 | 468.7 | 471.4 | 476.7 | 481.9 | 491.6 | 501.4 |
| 42.5° | 474.3 | 463.0 | 451.7 | 443.7 | 435.9 | 430.9 | 435.9 | 443.7 | 451.7 | 463.0 | 474.3 |
| 45° | 450.0 | 437.3 | 424.6 | 415.1 | 405.7 | 399.4 | 405.7 | 415.1 | 424.6 | 437.3 | 450.0 |
| 47.5° | 432.8 | 421.8 | 410.7 | 402.4 | 394.1 | 388.0 | 394.1 | 402.4 | 410.7 | 421.8 | 432.8 |
| 50° | 424.3 | 415.6 | 406.9 | 399.1 | 391.2 | 385.5 | 391.2 | 399.1 | 406.9 | 415.6 | 424.3 |
| 52.5° | 416.8 | 410.5 | 404.2 | 397.4 | 390.6 | 385.5 | 390.6 | 397.4 | 404.2 | 410.5 | 416.8 |
| 55° | 405.0 | 400.5 | 395.8 | 390.8 | 385.8 | 381.7 | 385.8 | 390.8 | 395.8 | 400.5 | 405.0 |
| 57.5° | 392.1 | 387.3 | 382.4 | 378.6 | 374.8 | 372.9 | 374.8 | 378.6 | 382.4 | 387.3 | 392.1 |
| 60° | 374.4 | 370.6 | 366.9 | 363.3 | 359.7 | 356.5 | 359.7 | 363.3 | 366.9 | 370.6 | 374.4 |
| 62.5° | 345.8 | 344.1 | 342.4 | 338.4 | 334.5 | 330.1 | 334.5 | 338.4 | 342.4 | 344.1 | 345.8 |
| 65° | *312.2* | *311.3* | *310.6* | *307.7* | *304.9* | *299.8* | *304.9* | *307.7* | *310.6* | *311.3* | *312.2* |
| 67.5° | 277.4 | 275.8 | 274.0 | 271.0 | 268.1 | 267.1 | 268.1 | 271.0 | 274.0 | 275.8 | 277.4 |
| 70° | 245.7 | 243.2 | 240.6 | 233.8 | 227.0 | 219.2 | 227.0 | 233.8 | 240.6 | 243.2 | 245.7 |
| 72.5° | 216.1 | 212.2 | 208.1 | 200.2 | 192.1 | 183.9 | 192.1 | 200.2 | 208.1 | 212.2 | 216.1 |
| 75° | 184.6 | 179.0 | 173.6 | 165.2 | 156.9 | 151.2 | 156.9 | 165.2 | 173.6 | 179.0 | 184.6 |
| 77.5° | 144.6 | 139.8 | 135.1 | 130.0 | 125.0 | 122.2 | 125.0 | 130.0 | 135.1 | 139.8 | 144.6 |
| 80° | 103.6 | 100.0 | 96.4 | 93.9 | 91.3 | 89.4 | 91.3 | 93.9 | 96.4 | 100.0 | 103.6 |
| 82.5° | 63.6 | 62.0 | 60.5 | 57.7 | 54.8 | 52.9 | 54.8 | 57.7 | 60.5 | 62.0 | 63.6 |
| 85° | 24.6 | 24.2 | 23.9 | 22.9 | 22.0 | 21.4 | 22.0 | 22.9 | 23.9 | 24.2 | 24.6 |
| 87.5° | 9.1 | 8.3 | 7.6 | 7.1 | 6.6 | 6.3 | 6.6 | 7.1 | 7.6 | 8.3 | 9.1 |
| 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: P1364120
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**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 759.8 | 762.5 | 766.5 | 770.4 | 775.9 | 781.4 | 786.0 | 790.6 | 795.7 | 801.0 | 807.7 |
| 5° | 716.1 | 720.9 | 726.8 | 732.6 | 740.0 | 747.3 | 755.7 | 763.7 | 773.5 | 783.4 | 795.2 |
| 7.5° | 688.4 | 693.9 | 702.5 | 711.2 | 720.4 | 729.5 | 740.3 | 751.1 | 764.0 | 776.7 | 791.3 |
| 10° | 675.5 | 683.8 | 693.4 | 703.0 | 715.0 | 726.9 | 738.4 | 749.9 | 763.0 | 776.1 | 791.4 |
| 12.5° | 678.9 | 689.1 | 702.0 | 715.0 | 729.3 | 743.6 | 754.1 | 764.7 | 773.8 | 783.0 | 795.7 |
| 15° | 702.9 | 717.5 | 735.5 | 753.4 | 766.6 | 779.8 | 783.5 | 787.2 | 787.9 | 788.7 | 797.0 |
| 17.5° | 734.7 | 756.5 | 781.7 | 806.9 | 816.3 | 825.5 | 818.3 | 811.1 | 798.6 | 786.1 | 787.3 |
| 20° | 760.3 | 788.9 | 821.9 | 854.8 | 855.7 | 856.7 | 837.3 | 817.9 | 793.6 | 769.1 | 762.1 |
| 22.5° | 771.3 | 806.6 | 838.9 | 871.2 | 864.1 | 857.0 | 829.0 | 801.0 | 769.1 | 737.3 | 726.8 |
| 25° | 759.2 | 793.5 | 820.0 | 846.6 | 833.3 | 819.9 | 789.8 | 759.7 | 730.2 | 700.7 | 689.3 |
| 27.5° | 725.9 | 753.6 | 769.9 | 786.1 | 771.2 | 756.2 | 732.0 | 707.8 | 685.9 | 663.9 | 652.9 |
| 30° | 674.3 | 694.2 | 704.9 | 715.6 | 703.6 | 691.7 | 675.3 | 658.9 | 643.0 | 627.2 | 618.6 |
| 32.5° | 619.1 | 632.2 | 640.5 | 648.8 | 642.3 | 635.6 | 623.5 | 611.3 | 600.9 | 590.6 | 587.0 |
| 35° | 573.5 | 585.2 | 592.1 | 599.1 | 594.0 | 589.0 | 579.0 | 569.2 | 562.4 | 555.6 | 558.6 |
| 37.5° | 539.3 | 549.3 | 554.3 | 559.4 | 552.1 | 544.9 | 536.6 | 528.1 | 525.1 | 521.8 | 530.1 |
| 40° | 510.9 | 520.3 | 521.3 | 522.2 | 513.3 | 504.2 | 496.3 | 488.2 | 488.6 | 488.8 | 500.9 |
| 42.5° | 482.3 | 490.1 | 488.2 | 486.3 | 476.7 | 467.2 | 459.2 | 451.3 | 452.9 | 454.6 | 469.9 |
| 45° | 457.2 | 464.3 | 459.8 | 455.4 | 444.9 | 434.4 | 427.3 | 420.5 | 423.1 | 425.6 | 441.2 |
| 47.5° | 437.4 | 442.2 | 437.4 | 432.8 | 421.0 | 409.5 | 402.1 | 395.0 | 396.6 | 398.1 | 411.7 |
| 50° | 425.2 | 426.1 | 417.5 | 408.8 | 399.6 | 390.6 | 382.7 | 374.8 | 372.9 | 371.0 | 382.2 |
| 52.5° | 415.2 | 413.9 | 404.7 | 395.6 | 386.1 | 376.7 | 369.4 | 362.2 | 356.4 | 350.5 | 358.9 |
| 55° | 403.2 | 401.3 | 392.8 | 384.3 | 375.4 | 366.6 | 357.9 | 349.2 | 340.9 | 332.6 | 341.9 |
| 57.5° | 390.6 | 389.0 | 379.1 | 369.1 | 360.3 | 351.5 | 342.0 | 332.6 | 324.3 | 316.0 | 328.9 |
| 60° | 372.4 | 370.4 | 360.3 | 350.2 | 341.2 | 332.0 | 322.4 | 312.7 | 307.3 | 301.7 | 318.1 |
| 62.5° | 342.8 | 339.9 | 330.2 | 320.6 | 313.1 | 305.5 | 294.7 | 283.7 | 283.2 | 282.5 | 303.9 |
| 65° | *309.3* | *306.4* | *298.1* | *289.8* | *283.7* | *277.8* | *267.3* | *257.0* | *259.5* | *262.0* | *285.0* |
| 67.5° | 274.1 | 270.9 | 265.2 | 259.5 | 254.6 | 249.7 | 240.1 | 230.6 | 235.7 | 240.9 | 261.3 |
| 70° | 243.9 | 242.1 | 237.6 | 233.1 | 228.8 | 224.5 | 216.7 | 208.9 | 212.2 | 215.4 | 227.5 |
| 72.5° | 214.9 | 213.9 | 209.6 | 205.4 | 201.7 | 198.0 | 192.1 | 186.2 | 188.5 | 190.9 | 193.5 |
| 75° | 182.7 | 180.8 | 176.4 | 172.0 | 169.1 | 166.3 | 161.8 | 157.2 | 158.9 | 160.6 | 162.0 |
| 77.5° | 143.9 | 143.4 | 139.7 | 136.1 | 133.4 | 130.8 | 126.6 | 122.5 | 124.5 | 126.2 | 129.6 |
| 80° | 103.6 | 103.6 | 100.7 | 97.6 | 96.8 | 95.7 | 92.7 | 89.7 | 91.2 | 92.6 | 96.8 |
| 82.5° | 62.5 | 61.5 | 58.5 | 55.4 | 56.7 | 58.0 | 58.6 | 59.2 | 60.2 | 61.1 | 61.1 |
| 85° | 23.8 | 22.9 | 23.2 | 23.3 | 23.8 | 24.2 | 26.2 | 28.0 | 29.5 | 30.9 | 30.7 |
| 87.5° | 10.1 | 11.1 | 11.5 | 12.0 | 12.5 | 12.9 | 12.3 | 11.6 | 11.1 | 10.3 | 9.6 |
| 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: P1364120
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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 814.5 | 820.8 | 828.0 | 835.2 | 842.2 | 849.6 | 857.0 | 864.3 | 871.6 | 879.5 | 887.6 |
| 5° | 807.3 | 819.5 | 833.8 | 847.4 | 861.1 | 875.6 | 890.1 | 904.8 | 919.7 | 933.8 | 948.0 |
| 7.5° | 806.1 | 820.8 | 839.7 | 857.8 | 875.8 | 896.0 | 916.2 | 938.7 | 961.3 | 985.2 | 1009.1 |
| 10° | 806.9 | 822.7 | 842.8 | 863.6 | 884.4 | 909.4 | 934.2 | 962.3 | 990.2 | 1019.0 | 1047.6 |
| 12.5° | 808.6 | 823.9 | 846.0 | 868.8 | 891.7 | 919.6 | 947.4 | 978.8 | 1010.1 | 1038.6 | 1067.1 |
| 15° | 805.3 | 818.9 | 843.5 | 869.3 | 895.1 | 925.2 | 955.2 | 987.1 | 1019.0 | 1047.7 | 1076.5 |
| 17.5° | 788.4 | 800.0 | 828.7 | 858.7 | 888.8 | 923.0 | 957.2 | 991.3 | 1025.3 | 1052.1 | 1079.1 |
| 20° | 754.9 | 762.2 | 800.3 | 839.8 | 879.4 | 919.6 | 959.8 | 996.3 | 1032.8 | 1060.0 | 1087.3 |
| 22.5° | 716.2 | 723.2 | 768.5 | 818.1 | 867.8 | 916.9 | 966.1 | 1006.1 | 1046.3 | 1071.1 | 1096.1 |
| 25° | 677.8 | 678.4 | 730.5 | 792.3 | 854.2 | 916.7 | 979.2 | 1023.0 | 1066.8 | 1088.4 | 1109.9 |
| 27.5° | 641.9 | 638.7 | 691.9 | 765.9 | 839.7 | 919.1 | 998.4 | 1047.7 | 1097.1 | 1113.6 | 1130.1 |
| 30° | 610.0 | 606.6 | 658.3 | 742.8 | 827.5 | 924.2 | 1021.1 | 1076.9 | 1132.6 | 1145.5 | 1158.4 |
| 32.5° | 583.3 | 583.3 | 630.9 | 722.7 | 814.5 | 930.0 | 1045.7 | 1111.3 | 1177.0 | 1185.0 | 1193.1 |
| 35° | 561.6 | 569.5 | 606.2 | 699.7 | 793.1 | 928.6 | 1064.3 | 1147.9 | 1231.5 | 1241.6 | 1251.7 |
| 37.5° | 538.2 | 553.1 | 582.1 | 674.3 | 766.6 | 924.7 | 1082.8 | 1192.4 | 1302.1 | 1314.0 | 1326.0 |
| 40° | 513.0 | 531.7 | 554.6 | 643.9 | 733.2 | 915.9 | 1098.6 | 1243.5 | 1388.4 | 1412.0 | 1435.6 |
| 42.5° | 485.3 | 508.3 | 524.4 | 607.8 | 691.0 | 900.7 | 1110.2 | 1299.9 | 1489.4 | 1539.4 | 1589.3 |
| 45° | 457.1 | 480.0 | 494.5 | 571.0 | 647.6 | 890.2 | 1132.9 | 1376.5 | 1620.2 | 1700.2 | 1780.2 |
| 47.5° | 425.2 | 446.6 | 463.4 | 534.4 | 605.7 | 878.0 | 1150.2 | 1455.3 | 1760.3 | 1861.6 | 1962.8 |
| 50° | 393.3 | 414.5 | 437.4 | 501.9 | 566.3 | 857.2 | 1148.0 | 1523.9 | 1899.9 | 2037.2 | 2174.5 |
| 52.5° | 367.2 | 389.9 | 419.3 | 472.7 | 526.4 | 814.6 | 1103.0 | 1556.4 | 2009.7 | 2227.9 | 2446.0 |
| 55° | 351.2 | 378.0 | 407.2 | 448.3 | 489.1 | 758.2 | 1027.0 | 1547.9 | 2068.7 | 2419.5 | 2770.4 |
| 57.5° | 342.0 | 374.8 | 399.4 | 427.6 | 455.8 | 699.1 | 942.4 | 1501.1 | 2059.9 | 2580.4 | 3101.1 |
| 60° | 334.5 | 367.2 | 386.5 | 406.3 | 426.1 | 624.4 | 822.7 | 1389.1 | 1955.5 | 2652.5 | 3349.3 |
| 62.5° | 325.3 | 356.5 | 364.7 | 375.7 | 386.8 | 529.6 | 672.5 | 1205.6 | 1738.6 | 2492.6 | 3246.6 |
| 65° | *308.0* | *333.9* | *336.1* | *338.4* | *340.8* | *416.3* | *491.6* | *945.6* | *1399.7* | *2149.9* | *2900.2* |
| 67.5° | 281.6 | 299.2 | 295.8 | 289.1 | 282.5 | 318.2 | 354.0 | 735.9 | 1117.7 | 1846.4 | 2575.1 |
| 70° | 239.6 | 248.2 | 249.2 | 239.2 | 229.3 | 241.9 | 254.5 | 563.9 | 873.3 | 1568.6 | 2264.0 |
| 72.5° | 196.3 | 190.9 | 200.9 | 193.4 | 185.8 | 186.0 | 186.2 | 423.9 | 661.7 | 1302.6 | 1943.3 |
| 75° | 163.5 | 160.0 | 156.0 | 146.9 | 138.0 | 138.7 | 139.6 | 314.2 | 488.8 | 1040.0 | 1591.2 |
| 77.5° | 132.9 | 132.3 | 120.7 | 110.9 | 101.0 | 100.5 | 99.8 | 203.1 | 306.4 | 682.3 | 1058.3 |
| 80° | 100.8 | 101.4 | 85.0 | 74.8 | 64.5 | 64.0 | 63.2 | 112.3 | 161.3 | 391.2 | 621.1 |
| 82.5° | 61.1 | 58.6 | 49.4 | 44.3 | 39.3 | 39.2 | 39.1 | 60.3 | 81.6 | 196.0 | 310.6 |
| 85° | 30.5 | 29.0 | 23.9 | 20.7 | 17.4 | 16.5 | 15.7 | 19.1 | 22.7 | 46.6 | 70.6 |
| 87.5° | 8.8 | 7.6 | 6.9 | 6.3 | 5.7 | 5.3 | 5.0 | 5.2 | 5.3 | 5.5 | 5.7 |
| 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: P1364120
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | *821.4* | 821.4 | 821.4 |
| 2.5° | 890.7 | 893.9 | 897.3 | 900.8 | 902.8 | 904.8 | 907.0 | 909.0 | *910.9* | 909.0 | 907.0 |
| 5° | 962.3 | 976.4 | 986.0 | 995.5 | 1002.8 | 1010.1 | 1014.3 | 1018.6 | *1019.2* | 1018.6 | 1014.3 |
| 7.5° | 1026.0 | 1042.9 | 1057.5 | 1072.1 | 1081.5 | 1090.8 | 1096.2 | 1101.7 | *1103.6* | 1101.7 | 1096.2 |
| 10° | 1067.3 | 1087.3 | 1101.4 | 1115.6 | 1124.3 | 1132.9 | 1137.1 | 1141.4 | *1142.7* | 1141.4 | 1137.1 |
| 12.5° | 1086.1 | 1105.1 | 1116.1 | 1126.9 | 1132.5 | 1137.9 | 1139.9 | 1141.7 | *1140.2* | 1141.7 | 1139.9 |
| 15° | 1087.8 | 1098.8 | 1103.5 | 1108.0 | 1105.4 | 1102.6 | 1098.7 | 1094.8 | *1092.3* | 1094.8 | 1098.7 |
| 17.5° | 1083.0 | 1087.0 | 1078.6 | 1070.2 | 1055.1 | 1040.0 | 1028.7 | 1017.3 | *1009.1* | 1017.3 | 1028.7 |
| 20° | 1081.0 | 1074.7 | 1052.2 | 1029.9 | 1001.6 | 973.2 | 954.2 | 935.1 | *923.5* | 935.1 | 954.2 |
| 22.5° | 1078.3 | 1060.5 | 1022.9 | 985.2 | 946.4 | 907.7 | 885.8 | 864.0 | *851.7* | 864.0 | 885.8 |
| 25° | 1079.4 | 1048.8 | 997.9 | 947.2 | 901.5 | 856.1 | 832.3 | 808.6 | *795.0* | 808.6 | 832.3 |
| 27.5° | 1083.5 | 1036.9 | 973.9 | 910.9 | 861.5 | 812.0 | 789.3 | 766.6 | *754.7* | 766.6 | 789.3 |
| 30° | 1096.6 | 1034.6 | 959.3 | 883.8 | 832.1 | 780.5 | 758.3 | 736.0 | *723.2* | 736.0 | 758.3 |
| 32.5° | 1115.0 | 1036.9 | 952.4 | 868.0 | 815.4 | 762.8 | 741.5 | 720.4 | *709.3* | 720.4 | 741.5 |
| 35° | 1152.8 | 1053.9 | 960.3 | 866.8 | 817.9 | 769.1 | 753.5 | 738.0 | *732.0* | 738.0 | 753.5 |
| 37.5° | 1210.5 | 1094.8 | 998.4 | 902.1 | 868.8 | 835.5 | 835.5 | 835.5 | *840.3* | 835.5 | 835.5 |
| 40° | 1305.8 | 1176.1 | 1084.9 | 993.8 | 991.8 | 990.0 | 1011.2 | 1032.4 | *1041.9* | 1032.4 | 1011.2 |
| 42.5° | 1452.1 | 1315.0 | 1241.5 | 1167.9 | 1212.0 | 1256.1 | 1317.3 | 1378.5 | *1418.6* | 1378.5 | 1317.3 |
| 45° | 1646.6 | 1513.1 | 1461.7 | 1410.4 | 1508.5 | 1606.6 | 1714.8 | 1823.0 | *1899.9* | 1823.0 | 1714.8 |
| 47.5° | 1850.5 | 1738.0 | 1708.6 | 1679.4 | 1842.5 | 2005.7 | 2164.3 | 2322.9 | *2416.4* | 2322.9 | 2164.3 |
| 50° | 2073.5 | 1972.3 | 1966.6 | 1961.0 | 2178.3 | 2395.6 | 2600.3 | 2805.1 | *2919.1* | 2805.1 | 2600.3 |
| 52.5° | 2335.0 | 2223.9 | 2228.4 | 2232.7 | 2490.9 | 2749.0 | 2996.6 | 3244.1 | *3372.6* | 3244.1 | 2996.6 |
| 55° | 2631.2 | 2492.0 | 2491.2 | 2490.5 | 2787.0 | 3083.9 | 3388.0 | 3692.4 | *3864.0* | 3692.4 | 3388.0 |
| 57.5° | 2970.7 | 2840.3 | 2809.3 | 2778.2 | 3088.4 | 3398.4 | 3734.3 | 4070.3 | *4250.7* | 4070.3 | 3734.3 |
| 60° | 3277.5 | 3205.7 | 3156.1 | 3106.5 | 3425.0 | 3743.6 | 4090.6 | 4437.4 | *4617.4* | 4437.4 | 4090.6 |
| 62.5° | 3375.0 | 3503.4 | 3499.7 | 3496.1 | 3839.9 | 4183.7 | 4544.5 | 4905.6 | *5067.1* | 4905.6 | 4544.5 |
| 65° | *3104.9* | *3309.6* | *3450.5* | *3591.2* | *4006.8* | *4422.3* | *4798.3* | *5174.2* | *5339.2* | *5174.2* | *4798.3* |
| 67.5° | 2755.5 | 2936.1 | 3051.4 | 3166.6 | 3634.9 | 4103.3 | 4529.9 | 4956.5 | *5126.3* | 4956.5 | 4529.9 |
| 70° | 2463.8 | 2663.6 | 2746.0 | 2828.4 | 3226.2 | 3624.0 | 3961.5 | 4298.9 | *4365.4* | 4298.9 | 3961.5 |
| 72.5° | 2180.9 | 2418.7 | 2453.6 | 2488.5 | 2778.0 | 3067.5 | 3247.3 | 3427.0 | *3281.9* | 3427.0 | 3247.3 |
| 75° | 1859.3 | 2127.3 | 2150.6 | 2173.9 | 2264.1 | 2354.4 | 2400.1 | 2446.0 | *2363.5* | 2446.0 | 2400.1 |
| 77.5° | 1290.3 | 1522.5 | 1574.8 | 1627.1 | 1687.2 | 1747.4 | 1744.3 | 1741.1 | *1625.2* | 1741.1 | 1744.3 |
| 80° | 802.7 | 984.2 | 991.0 | 997.8 | 1042.9 | 1087.9 | 1133.9 | 1179.9 | *1106.1* | 1179.9 | 1133.9 |
| 82.5° | 410.2 | 510.0 | 525.4 | 540.7 | 568.3 | 595.9 | 608.8 | 621.7 | *559.4* | 621.7 | 608.8 |
| 85° | 96.5 | 122.5 | 147.5 | 172.6 | 201.6 | 230.6 | 227.3 | 224.0 | *189.0* | 224.0 | 227.3 |
| 87.5° | 5.8 | 6.0 | 6.2 | 6.3 | 6.4 | 6.6 | 6.9 | 7.3 | *7.6* | 7.3 | 6.9 |
| 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: P1364120
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**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 | 821.4 |
| 2.5° | 904.8 | 902.8 | 900.8 | 897.3 | 893.9 | 890.7 | 887.6 |
| 5° | 1010.1 | 1002.8 | 995.5 | 986.0 | 976.4 | 962.3 | 948.0 |
| 7.5° | 1090.8 | 1081.5 | 1072.1 | 1057.5 | 1042.9 | 1026.0 | 1009.1 |
| 10° | 1132.9 | 1124.3 | 1115.6 | 1101.4 | 1087.3 | 1067.3 | 1047.6 |
| 12.5° | 1137.9 | 1132.5 | 1126.9 | 1116.1 | 1105.1 | 1086.1 | 1067.1 |
| 15° | 1102.6 | 1105.4 | 1108.0 | 1103.5 | 1098.8 | 1087.8 | 1076.5 |
| 17.5° | 1040.0 | 1055.1 | 1070.2 | 1078.6 | 1087.0 | 1083.0 | 1079.1 |
| 20° | 973.2 | 1001.6 | 1029.9 | 1052.2 | 1074.7 | 1081.0 | 1087.3 |
| 22.5° | 907.7 | 946.4 | 985.2 | 1022.9 | 1060.5 | 1078.3 | 1096.1 |
| 25° | 856.1 | 901.5 | 947.2 | 997.9 | 1048.8 | 1079.4 | 1109.9 |
| 27.5° | 812.0 | 861.5 | 910.9 | 973.9 | 1036.9 | 1083.5 | 1130.1 |
| 30° | 780.5 | 832.1 | 883.8 | 959.3 | 1034.6 | 1096.6 | 1158.4 |
| 32.5° | 762.8 | 815.4 | 868.0 | 952.4 | 1036.9 | 1115.0 | 1193.1 |
| 35° | 769.1 | 817.9 | 866.8 | 960.3 | 1053.9 | 1152.8 | 1251.7 |
| 37.5° | 835.5 | 868.8 | 902.1 | 998.4 | 1094.8 | 1210.5 | 1326.0 |
| 40° | 990.0 | 991.8 | 993.8 | 1084.9 | 1176.1 | 1305.8 | 1435.6 |
| 42.5° | 1256.1 | 1212.0 | 1167.9 | 1241.5 | 1315.0 | 1452.1 | 1589.3 |
| 45° | 1606.6 | 1508.5 | 1410.4 | 1461.7 | 1513.1 | 1646.6 | 1780.2 |
| 47.5° | 2005.7 | 1842.5 | 1679.4 | 1708.6 | 1738.0 | 1850.5 | 1962.8 |
| 50° | 2395.6 | 2178.3 | 1961.0 | 1966.6 | 1972.3 | 2073.5 | 2174.5 |
| 52.5° | 2749.0 | 2490.9 | 2232.7 | 2228.4 | 2223.9 | 2335.0 | 2446.0 |
| 55° | 3083.9 | 2787.0 | 2490.5 | 2491.2 | 2492.0 | 2631.2 | 2770.4 |
| 57.5° | 3398.4 | 3088.4 | 2778.2 | 2809.3 | 2840.3 | 2970.7 | 3101.1 |
| 60° | 3743.6 | 3425.0 | 3106.5 | 3156.1 | 3205.7 | 3277.5 | 3349.3 |
| 62.5° | 4183.7 | 3839.9 | 3496.1 | 3499.7 | 3503.4 | 3375.0 | 3246.6 |
| 65° | *4422.3* | *4006.8* | *3591.2* | *3450.5* | *3309.6* | *3104.9* | *2900.2* |
| 67.5° | 4103.3 | 3634.9 | 3166.6 | 3051.4 | 2936.1 | 2755.5 | 2575.1 |
| 70° | 3624.0 | 3226.2 | 2828.4 | 2746.0 | 2663.6 | 2463.8 | 2264.0 |
| 72.5° | 3067.5 | 2778.0 | 2488.5 | 2453.6 | 2418.7 | 2180.9 | 1943.3 |
| 75° | 2354.4 | 2264.1 | 2173.9 | 2150.6 | 2127.3 | 1859.3 | 1591.2 |
| 77.5° | 1747.4 | 1687.2 | 1627.1 | 1574.8 | 1522.5 | 1290.3 | 1058.3 |
| 80° | 1087.9 | 1042.9 | 997.8 | 991.0 | 984.2 | 802.7 | 621.1 |
| 82.5° | 595.9 | 568.3 | 540.7 | 525.4 | 510.0 | 410.2 | 310.6 |
| 85° | 230.6 | 201.6 | 172.6 | 147.5 | 122.5 | 96.5 | 70.6 |
| 87.5° | 6.6 | 6.4 | 6.3 | 6.2 | 6.0 | 5.8 | 5.7 |
| 90° | 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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

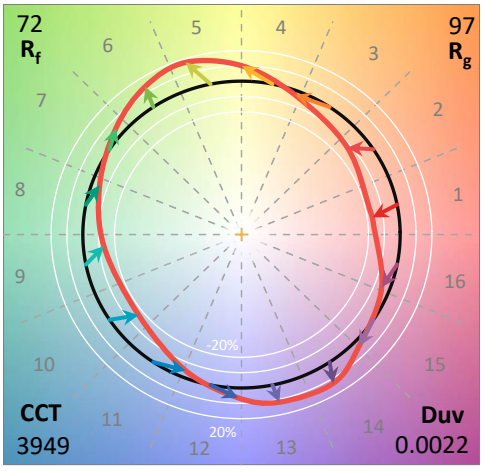
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-740-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3949 | CRI (Ra): | 70.7 | | |
| CIE u': | 0.2248 | R1: | 68.0 | R9: | -36.7 |
| CIE v': | 0.5053 | R2: | 76.0 | R10: | 45.1 |
| Duv: | 0.0022 | R3: | 84.3 | R11: | 70.7 |
| CIE x: | 0.3844 | R4: | 72.0 | R12: | 47.1 |
| CIE y: | 0.3840 | R5: | 68.6 | R13: | 68.5 |
| CIE z: | 0.2316 | R6: | 68.3 | R14: | 91.1 |
| Peak Wavelength (nm): | 440 | R7: | 77.9 | R15: | 58.7 |
| Dominant Wavelength (nm): | 578 | R8: | 50.3 | | |
| Purity: | 30.60026 | | | | |
| Rf: | 71.8 | | | | |
| Rg: | 96.5 | | | | |




## Test Conditions

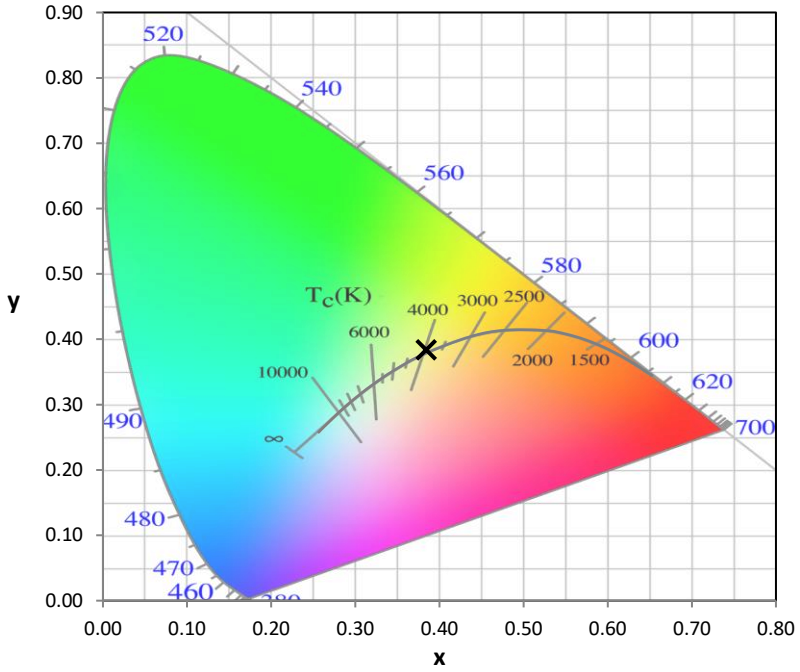
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-1

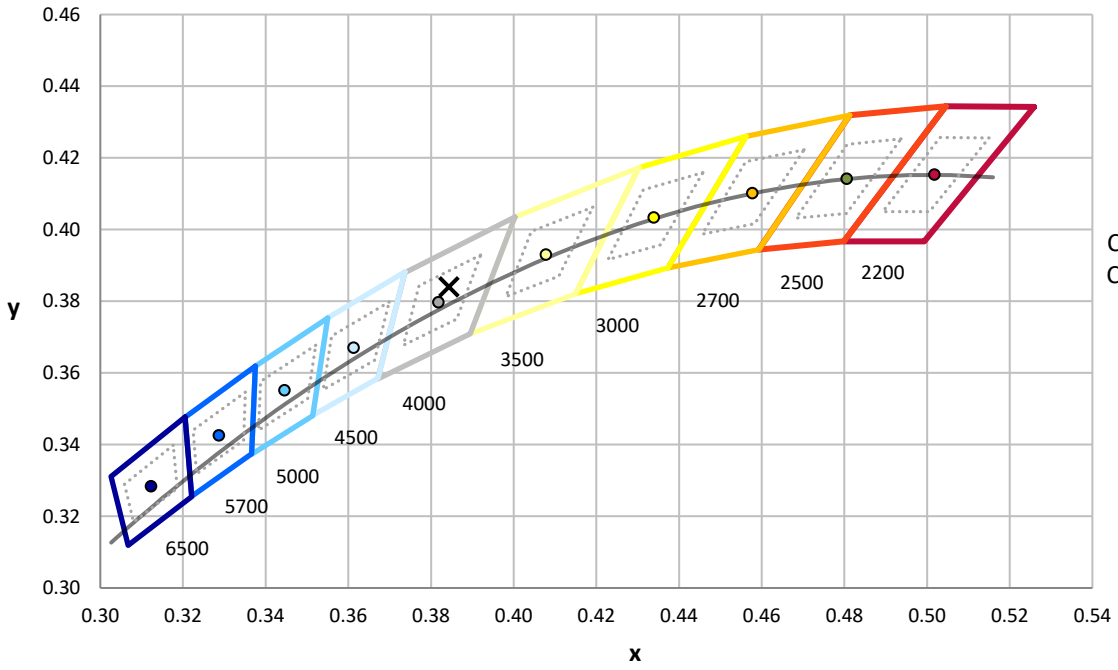
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-1

## CIE 1931 Chromaticity Diagram




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

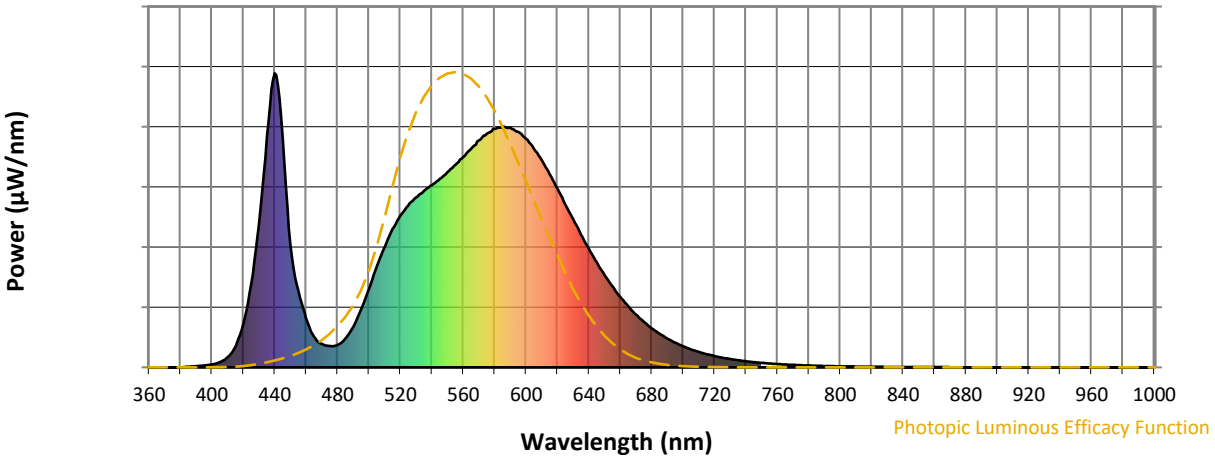



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

## Photopic Flux vs. Wavelength

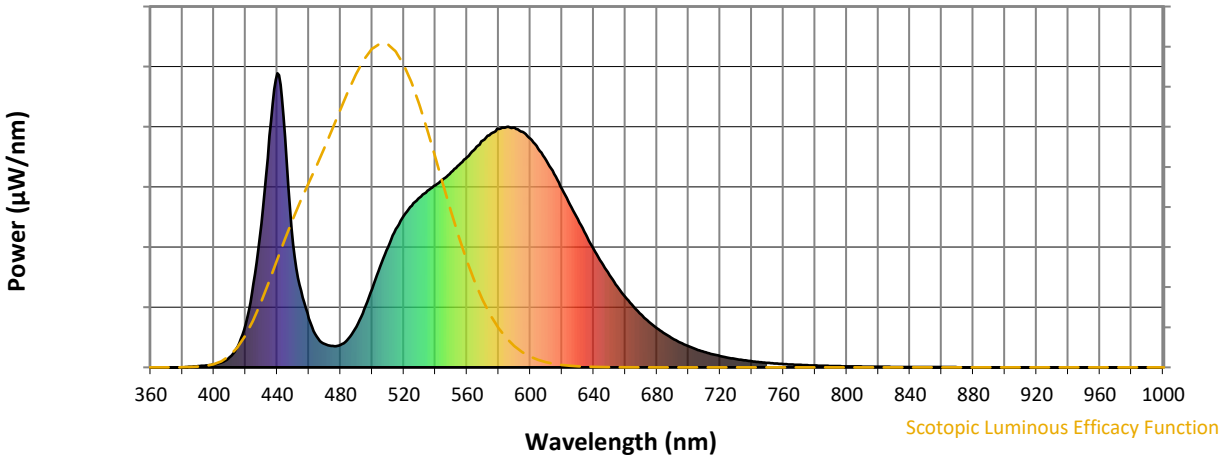



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Scotopic Flux vs. Wavelength

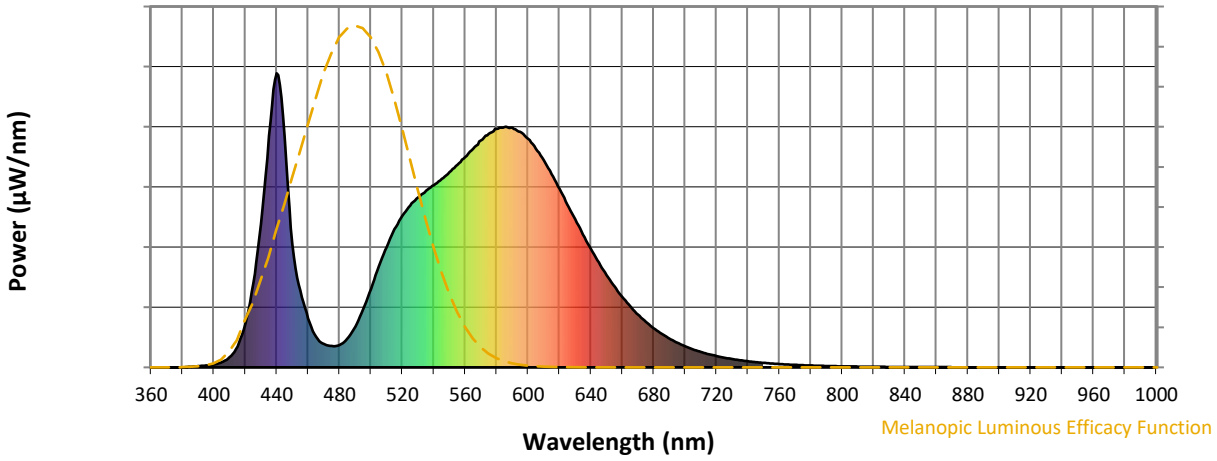



**Scotopic Lumens: NR** **S/P: 1.47**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.78**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

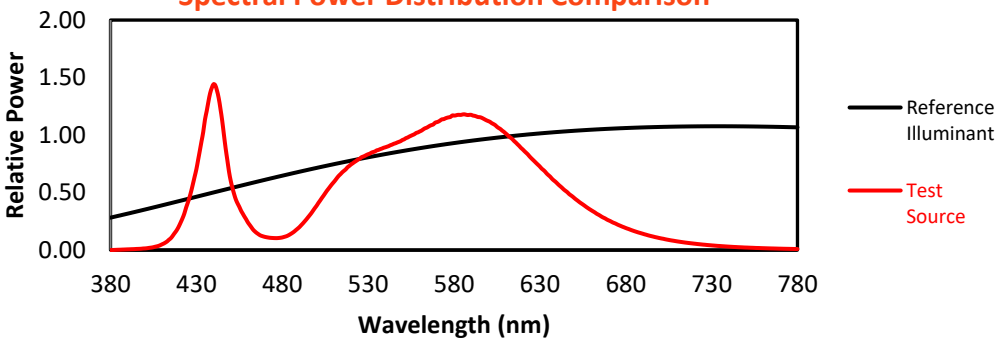
REPORT NUMBER: SP1-2407-184-1

# TM-30-18

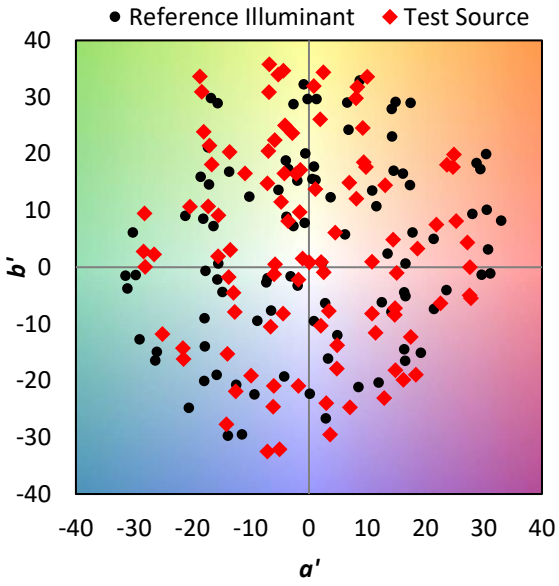
## Summary

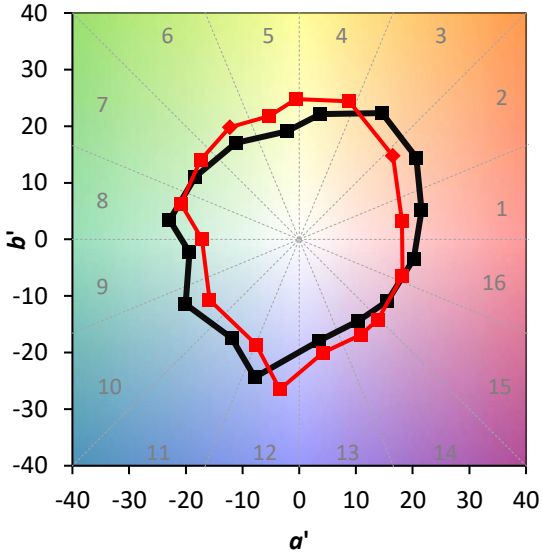
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

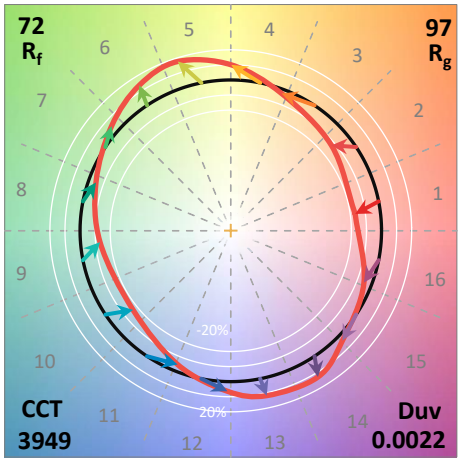
## Spectral Power Distribution Comparison

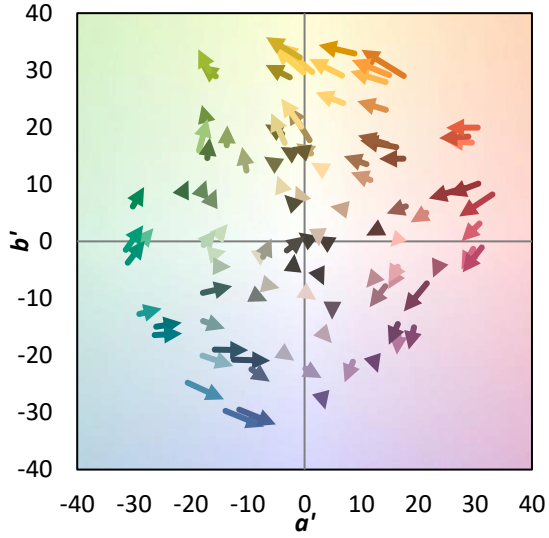



## Color Vector Graphics



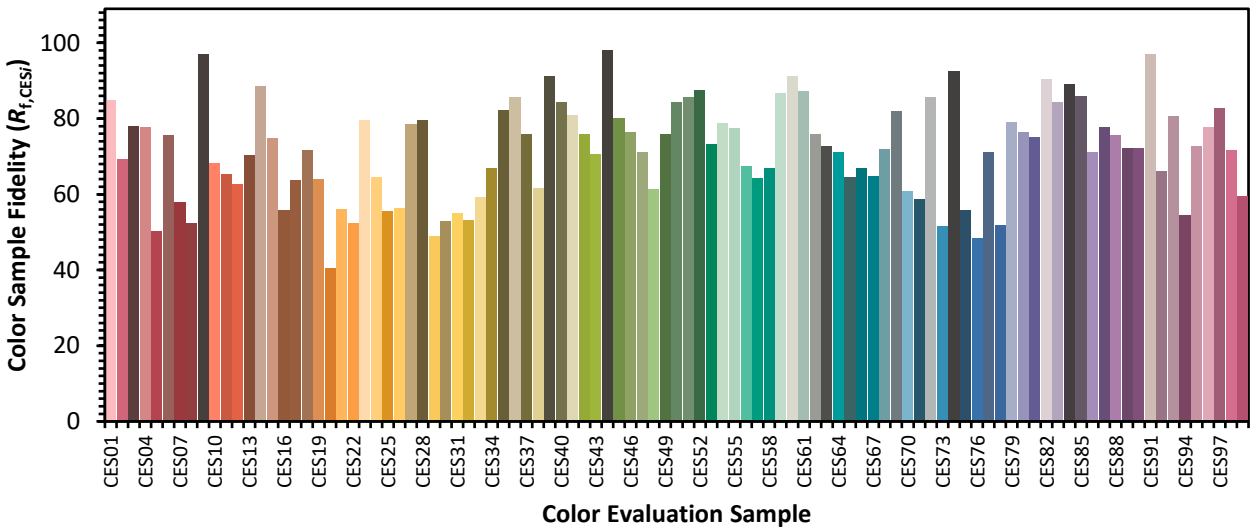



REPORT NUMBER: SP1-2407-184-1

# TM-30-18

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

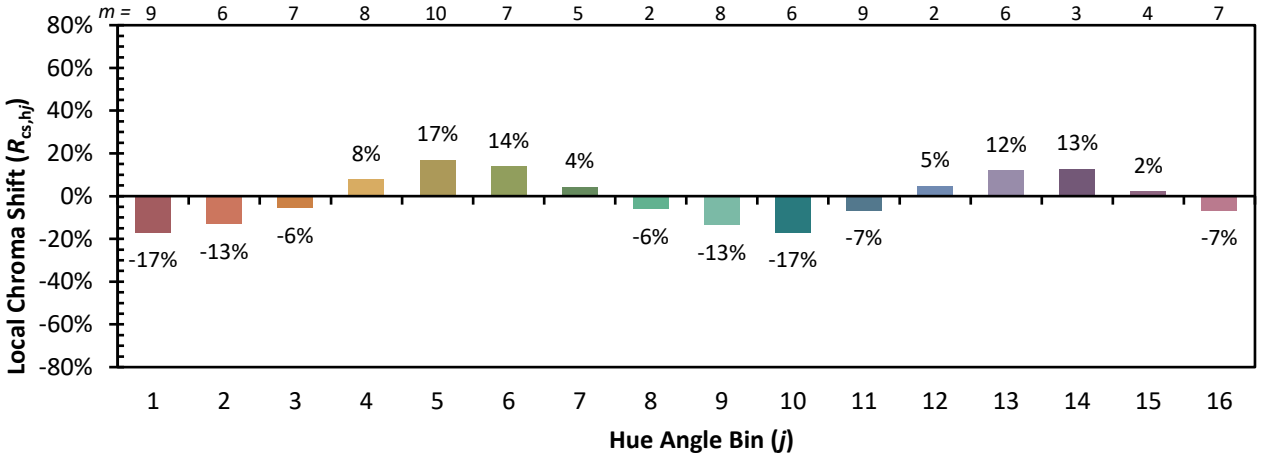
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 50 | CES31 = 55 | CES56 = 67 | CES81 = 75 |
| CES07 = 40 | CES32 = 53 | CES57 = 64 | CES82 = 90 |
| CES08 = 39 | CES33 = 59 | CES58 = 67 | CES83 = 84 |
| CES09 = 29 | CES34 = 67 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 82 | CES60 = 91 | CES85 = 86 |
| CES11 = 57 | CES36 = 86 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 76 | CES62 = 76 | CES87 = 78 |
| CES13 = 42 | CES38 = 62 | CES63 = 73 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 71 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 64 | CES90 = 72 |
| CES16 = 46 | CES41 = 81 | CES66 = 67 | CES91 = 97 |
| CES17 = 49 | CES42 = 76 | CES67 = 65 | CES92 = 66 |
| CES18 = 56 | CES43 = 71 | CES68 = 72 | CES93 = 81 |
| CES19 = 72 | CES44 = 98 | CES69 = 82 | CES94 = 55 |
| CES20 = 65 | CES45 = 80 | CES70 = 61 | CES95 = 73 |
| CES21 = 86 | CES46 = 76 | CES71 = 59 | CES96 = 78 |
| CES22 = 78 | CES47 = 71 | CES72 = 86 | CES97 = 83 |
| CES23 = 92 | CES48 = 61 | CES73 = 52 | CES98 = 72 |
| CES24 = 91 | CES49 = 76 | CES74 = 93 | CES99 = 60 |
| CES25 = 72 | CES50 = 84 | CES75 = 56 | |

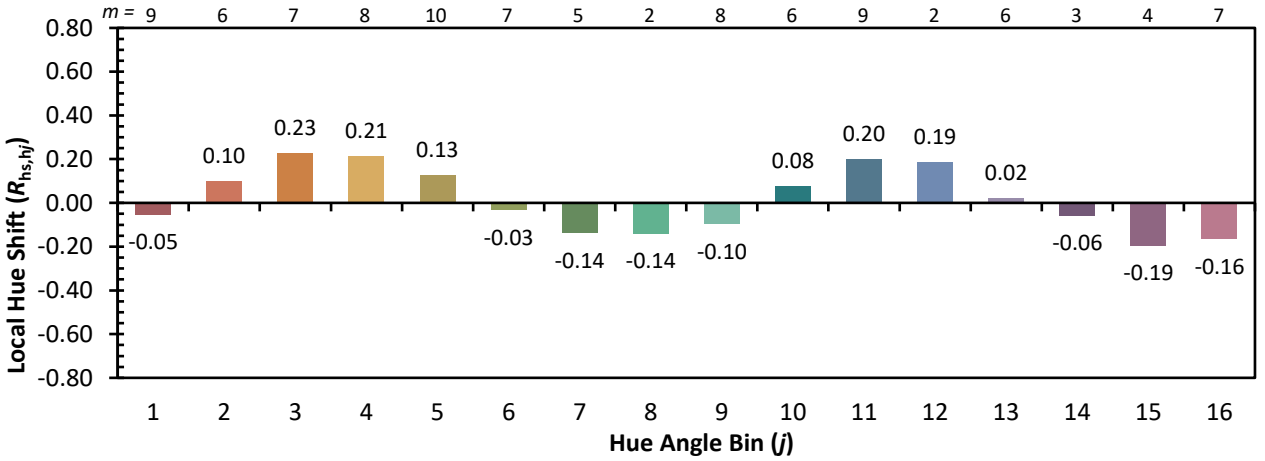


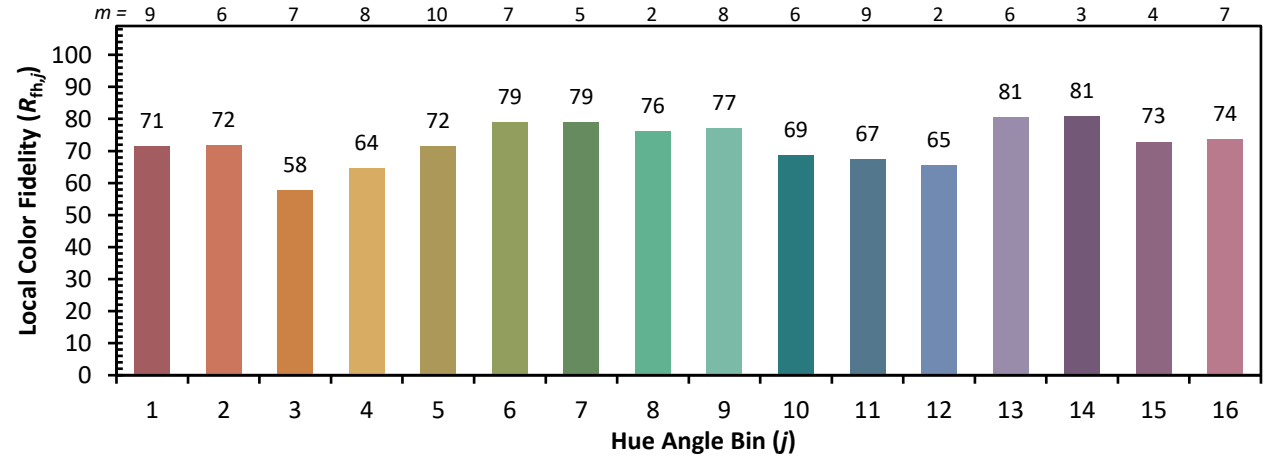
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## Color Rendition by Hue-Angle Bin



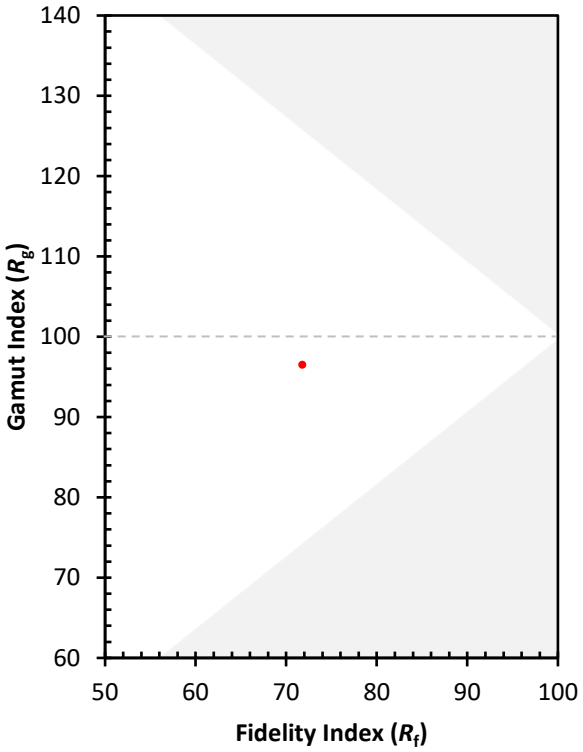



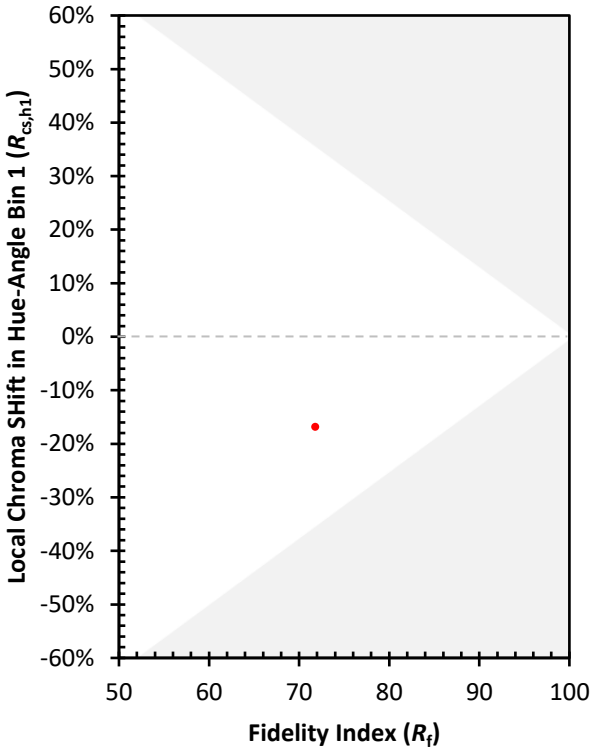



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## Measure Comparisons




(END OF REPORT)