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: P1365296

Luminaire Tested: **GSS-SB1B-722-U-SLL-HSS**

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: | P1365296 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1B-722-U-SLL-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 70CRI 2200K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (26) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3206.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 80.2 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U0 - G1 |

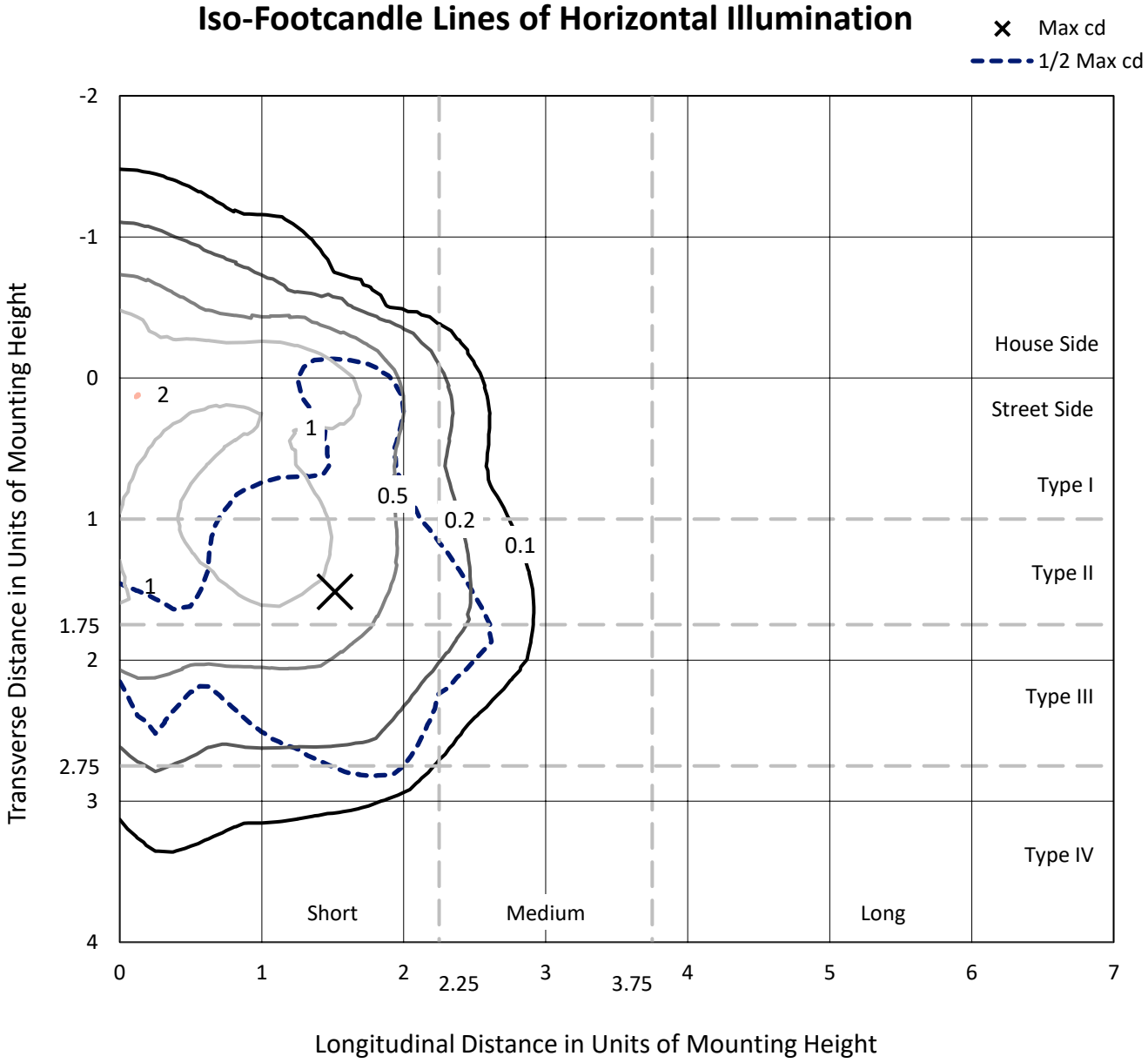
| | |
|---|---|
| Input Watts (W): | 40 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 5.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



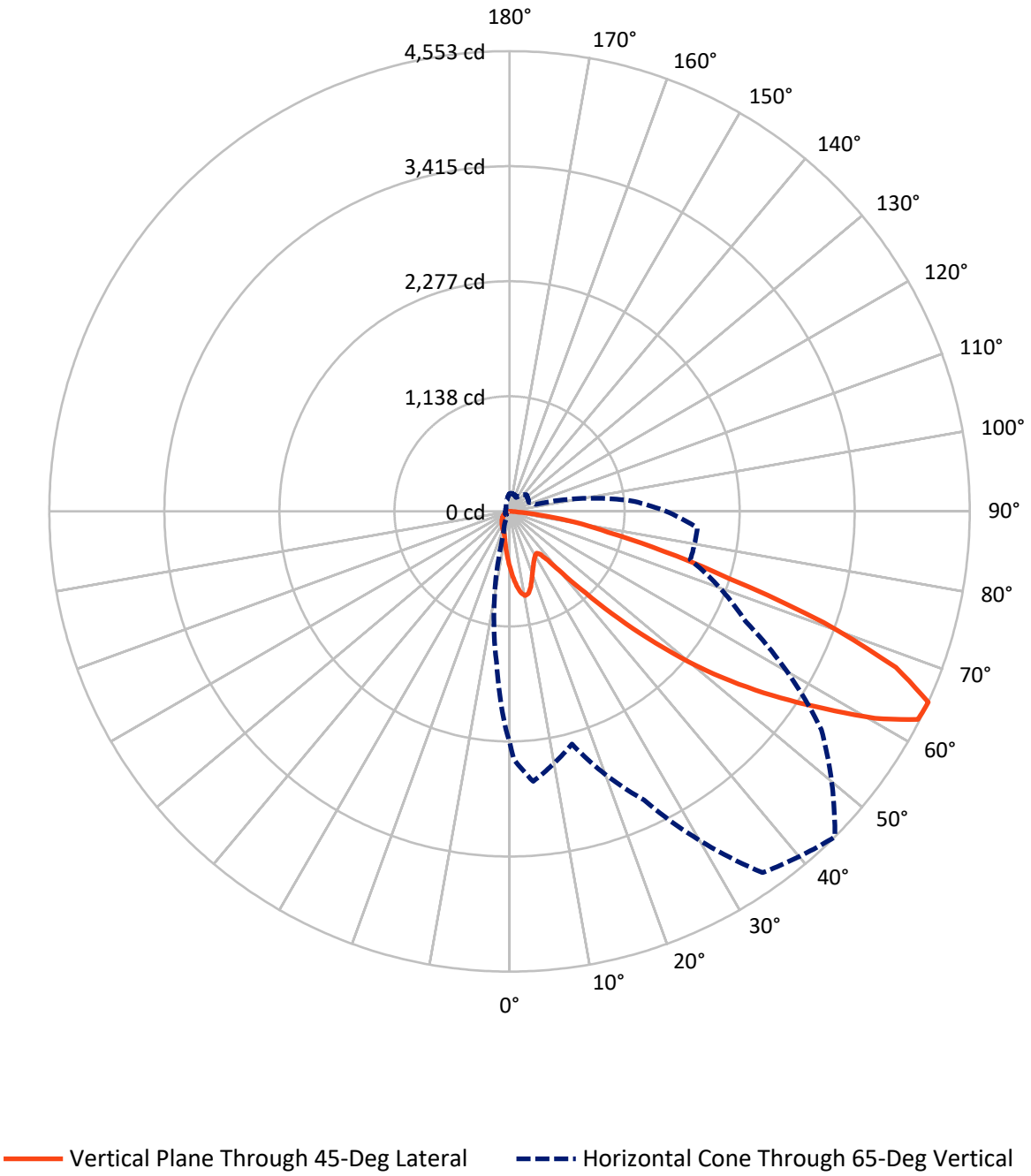

Based on 20 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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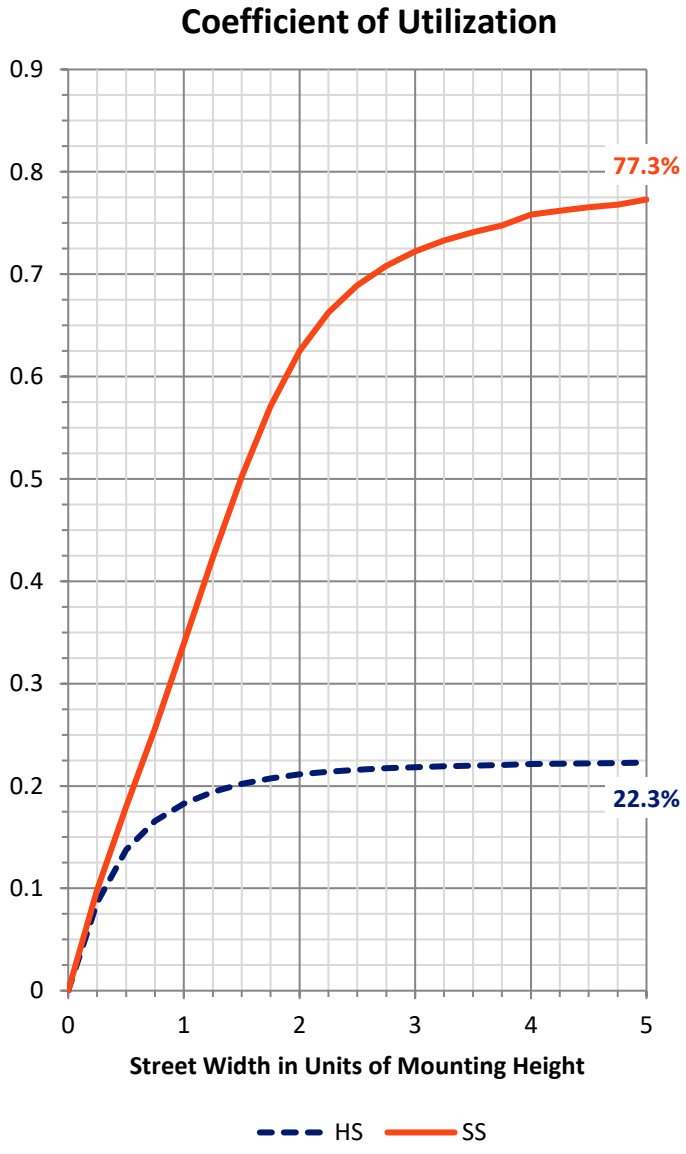
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 721.2 | 0.0 | 721.2 |
| | % Fixture | 22.5 | 0.0 | 22.5 |
| **Street Side** | Lumens | 2485.0 | 0.0 | 2485.0 |
| | % Fixture | 77.5 | 0.0 | 77.5 |
| **Total** | Lumens | 3206.3 | 0.0 | 3206.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 53.2 | 1.7 |
| 10°-20° | 147.2 | 4.6 |
| 20°-30° | 210.9 | 6.6 |
| 30°-40° | 264.5 | 8.3 |
| 40°-50° | 434.5 | 13.6 |
| 50°-60° | 784.6 | 24.5 |
| 60°-70° | 871.0 | 27.2 |
| 70°-80° | 393.7 | 12.3 |
| 80°-90° | 46.6 | 1.5 |
| 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° | 3206.3 | 100.0 |
| 0°-180° | 3206.3 | 100.0 |



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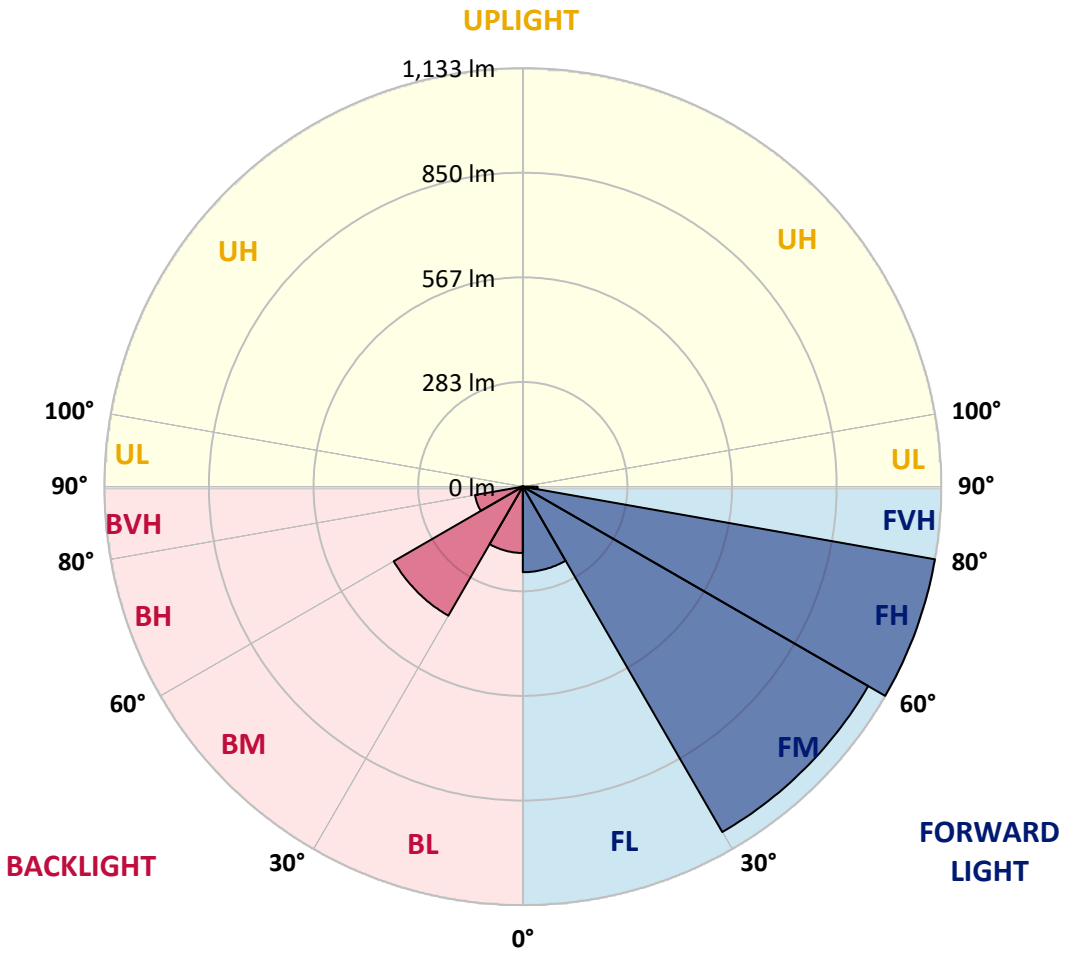
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 231.6 | 7.2 | | | |
| FM | (30°-60°) | 1080.1 | 33.7 | | | |
| FH | (60°-80°) | 1133.3 | 35.3 | | | G1/1800 |
| FVH | (80°-90°) | 40.0 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 179.7 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 403.6 | 12.6 | B1/1000 | | |
| BH | (60°-80°) | 131.4 | 4.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 6.6 | 0.2 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | *553.9* | 553.9 | 553.9 | 553.9 | 553.9 |
| 2.5° | 610.0 | 617.9 | 616.9 | 627.7 | 637.6 | 644.4 | *650.3* | 648.4 | 643.5 | 633.6 | 626.7 |
| 5° | 674.0 | 679.9 | 689.7 | 710.4 | 726.1 | 739.9 | *737.9* | 739.9 | 725.1 | 710.4 | 692.7 |
| 7.5° | 729.1 | 735.9 | 749.7 | 779.2 | 798.9 | 815.6 | *813.7* | 807.8 | 791.0 | 766.4 | 739.9 |
| 10° | 763.5 | 768.4 | 783.2 | 816.6 | 839.3 | 853.0 | *848.1* | 838.3 | 816.6 | 792.0 | 760.5 |
| 12.5° | 778.3 | 784.2 | 796.9 | 823.5 | 838.3 | 835.3 | *833.4* | 831.4 | 820.6 | 801.9 | 773.3 |
| 15° | 780.2 | 784.2 | 794.0 | 805.8 | 799.9 | 783.2 | *779.2* | 794.0 | 807.8 | 803.8 | 780.2 |
| 17.5° | 780.2 | 786.1 | 788.1 | 776.3 | 745.8 | 715.3 | *711.3* | 735.9 | 774.3 | 804.8 | 791.0 |
| 20° | 783.2 | 786.1 | 782.2 | 743.8 | 686.8 | 653.3 | *646.4* | 676.9 | 734.0 | 794.0 | 801.9 |
| 22.5° | 787.1 | 790.1 | 773.3 | 705.4 | 638.5 | 603.1 | *599.2* | 621.8 | 688.7 | 778.3 | 813.7 |
| 25° | 795.0 | 793.0 | 767.4 | 672.0 | 596.2 | 562.8 | *556.9* | 586.4 | 651.3 | 762.5 | 833.4 |
| 27.5° | 804.8 | 796.0 | 759.6 | 644.4 | 565.7 | 530.3 | *526.4* | 554.9 | 619.8 | 742.8 | 850.1 |
| 30° | 817.6 | 808.8 | 758.6 | 622.8 | 543.1 | 507.7 | *502.8* | 534.3 | 598.2 | 729.1 | 873.7 |
| 32.5° | 835.3 | 822.5 | 759.6 | 606.1 | 530.3 | 496.9 | *493.9* | 527.4 | 589.3 | 721.2 | 898.3 |
| 35° | 858.9 | 840.2 | 763.5 | 600.2 | 534.3 | 511.6 | *518.5* | 544.1 | 598.2 | 727.1 | 938.6 |
| 37.5° | 888.4 | 870.7 | 783.2 | 613.0 | 577.5 | 593.3 | *611.0* | 620.8 | 640.5 | 754.6 | 1003.6 |
| 40° | 937.6 | 913.0 | 812.7 | 654.3 | 693.6 | 767.4 | *801.9* | 797.9 | 752.7 | 817.6 | 1095.1 |
| 42.5° | 1006.5 | 983.9 | 872.7 | 759.6 | 887.5 | 1043.9 | *1102.0* | 1068.5 | 931.7 | 918.0 | 1245.6 |
| 45° | 1111.8 | 1074.4 | 953.4 | 916.0 | 1121.6 | 1378.4 | *1509.3* | 1394.2 | 1159.0 | 1076.4 | 1460.1 |
| 47.5° | 1246.6 | 1209.2 | 1079.3 | 1072.4 | 1383.3 | 1791.7 | *1947.1* | 1720.8 | 1384.3 | 1284.0 | 1716.9 |
| 50° | 1463.0 | 1421.7 | 1264.3 | 1231.8 | 1672.6 | 2203.9 | *2411.5* | 2046.5 | 1613.6 | 1504.4 | 2033.7 |
| 52.5° | 1760.2 | 1732.6 | 1557.5 | 1396.1 | 1931.4 | 2658.5 | *2837.5* | 2386.9 | 1790.7 | 1756.2 | 2379.0 |
| 55° | 2174.4 | 2147.8 | 1939.2 | 1579.1 | 2176.4 | 3114.0 | *3258.6* | 2696.8 | 1945.1 | 2051.4 | 2740.1 |
| 57.5° | 2643.7 | 2688.0 | 2461.7 | 1823.1 | 2434.1 | 3481.0 | *3682.7* | 2978.2 | 2153.7 | 2445.9 | 3141.5 |
| 60° | 2949.7 | 3089.4 | 3060.9 | 2249.2 | 2834.6 | 3937.5 | *4156.9* | 3355.1 | 2458.7 | 2736.2 | 3132.7 |
| 62.5° | 2684.0 | 2823.8 | 3042.2 | 2743.1 | 3220.3 | 4350.7 | *4535.7* | 3751.6 | 2761.8 | 2505.0 | 2630.9 |
| 65° | *2277.7* | *2451.8* | *2682.1* | *2383.0* | *3152.4* | *4363.5* | *4553.4* | *3766.3* | *2576.8* | *1851.7* | *1865.4* |
| 67.5° | 1962.9 | 2117.3 | 2400.7 | 2027.8 | 2794.2 | 3973.9 | *4123.5* | 3360.0 | 2130.1 | 1227.9 | 1217.1 |
| 70° | 1638.2 | 1779.8 | 2138.0 | 1805.4 | 2447.9 | 3424.9 | *3296.0* | 2824.7 | 1800.5 | 815.6 | 675.9 |
| 72.5° | 1396.1 | 1527.0 | 1899.9 | 1622.4 | 1942.2 | 2775.5 | *2271.8* | 2343.6 | 1465.0 | 518.5 | 460.5 |
| 75° | 1155.1 | 1275.1 | 1615.5 | 1468.9 | 1606.7 | 1731.6 | *1570.3* | 1664.7 | 1207.2 | 439.8 | 355.2 |
| 77.5° | 810.7 | 885.5 | 1133.4 | 1168.9 | 1250.5 | 1025.2 | *995.7* | 1165.9 | 858.9 | 218.4 | 149.6 |
| 80° | 399.5 | 445.7 | 591.3 | 695.6 | 591.3 | 581.5 | *663.1* | 776.3 | 445.7 | 133.8 | 82.6 |
| 82.5° | 179.1 | 212.5 | 272.5 | 421.1 | 213.5 | 232.2 | *293.2* | 413.2 | 202.7 | 79.7 | 35.4 |
| 85° | 28.5 | 31.5 | 53.1 | 70.8 | 58.0 | 89.5 | *85.6* | 80.7 | 43.3 | 21.6 | 9.8 |
| 87.5° | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 3.9 | *4.9* | 4.9 | 4.9 | 4.9 | 4.9 |
| 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 |
| 2.5° | 624.8 | 621.8 | 607.1 | 592.3 | 579.5 | 566.7 | 553.9 | 536.2 | 522.4 | 510.6 | 505.7 |
| 5° | 683.8 | 668.1 | 645.4 | 620.8 | 599.2 | 574.6 | 551.0 | 524.4 | 502.8 | 480.1 | 468.3 |
| 7.5° | 724.1 | 708.4 | 671.0 | 633.6 | 607.1 | 580.5 | 555.9 | 526.4 | 497.8 | 465.4 | 447.7 |
| 10° | 742.8 | 725.1 | 684.8 | 641.5 | 609.0 | 582.5 | 559.8 | 535.2 | 506.7 | 466.4 | 442.7 |
| 12.5° | 755.6 | 734.0 | 687.7 | 643.5 | 611.0 | 583.4 | 561.8 | 544.1 | 527.4 | 488.0 | 460.5 |
| 15° | 763.5 | 743.8 | 695.6 | 644.4 | 608.0 | 575.6 | 554.9 | 549.0 | 552.0 | 533.3 | 499.8 |
| 17.5° | 775.3 | 756.6 | 705.4 | 650.3 | 603.1 | 558.8 | 536.2 | 549.0 | 575.6 | 581.5 | 554.9 |
| 20° | 791.0 | 771.4 | 718.2 | 655.3 | 588.4 | 527.4 | 505.7 | 538.2 | 582.5 | 613.0 | 598.2 |
| 22.5° | 808.8 | 793.0 | 733.0 | 660.2 | 566.7 | 486.0 | 476.2 | 515.6 | 562.8 | 602.1 | 603.1 |
| 25° | 830.4 | 815.6 | 753.7 | 665.1 | 537.2 | 450.6 | 452.6 | 486.0 | 523.4 | 563.8 | 570.7 |
| 27.5° | 859.9 | 846.1 | 779.2 | 671.0 | 506.7 | 422.1 | 431.9 | 456.5 | 482.1 | 506.7 | 516.5 |
| 30° | 892.4 | 881.6 | 809.7 | 682.8 | 478.2 | 405.4 | 411.3 | 428.0 | 448.7 | 463.4 | 468.3 |
| 32.5° | 936.7 | 918.9 | 838.3 | 681.8 | 456.5 | 397.5 | 391.6 | 396.5 | 413.2 | 428.0 | 429.0 |
| 35° | 991.8 | 978.0 | 867.8 | 664.1 | 436.8 | 393.6 | 372.9 | 369.9 | 379.8 | 394.5 | 393.6 |
| 37.5° | 1072.4 | 1060.6 | 916.0 | 636.6 | 412.2 | 383.7 | 353.2 | 343.4 | 350.3 | 360.1 | 363.1 |
| 40° | 1193.5 | 1163.0 | 971.1 | 606.1 | 387.7 | 366.0 | 329.6 | 315.8 | 320.7 | 331.6 | 333.5 |
| 42.5° | 1357.8 | 1299.7 | 1044.9 | 564.8 | 364.0 | 339.4 | 306.0 | 291.2 | 294.2 | 304.0 | 306.0 |
| 45° | 1568.3 | 1480.7 | 1146.2 | 521.5 | 345.3 | 311.9 | 281.4 | 265.6 | 268.6 | 279.4 | 284.3 |
| 47.5° | 1814.3 | 1694.3 | 1252.5 | 475.2 | 334.5 | 290.2 | 256.8 | 245.0 | 251.9 | 262.7 | 264.7 |
| 50° | 2104.5 | 1983.5 | 1320.4 | 437.8 | 327.6 | 273.5 | 234.2 | 229.2 | 238.1 | 247.0 | 248.9 |
| 52.5° | 2421.3 | 2249.2 | 1277.1 | 407.3 | 321.7 | 267.6 | 218.4 | 220.4 | 227.3 | 236.1 | 239.1 |
| 55° | 2729.3 | 2346.6 | 1133.4 | 368.0 | 314.8 | 271.6 | 206.6 | 211.5 | 220.4 | 227.3 | 229.2 |
| 57.5° | 2930.0 | 2264.9 | 913.0 | 326.7 | 307.0 | 274.5 | 200.7 | 204.6 | 214.5 | 222.4 | 223.3 |
| 60° | 2754.9 | 2085.8 | 683.8 | 291.2 | 290.2 | 269.6 | 198.7 | 192.8 | 206.6 | 213.5 | 214.5 |
| 62.5° | 2257.0 | 1706.1 | 436.8 | 257.8 | 258.8 | 258.8 | 197.8 | 173.2 | 190.9 | 196.8 | 195.8 |
| 65° | *1550.6* | *1206.2* | *270.6* | *210.6* | *220.4* | *235.1* | *191.9* | *152.5* | *173.2* | *179.1* | *177.1* |
| 67.5° | 1019.3 | 766.4 | 167.3 | 162.3 | 181.0 | 203.7 | 180.1 | 136.8 | 155.5 | 159.4 | 153.5 |
| 70° | 552.9 | 361.1 | 110.2 | 106.3 | 141.7 | 160.4 | 152.5 | 123.0 | 138.7 | 142.7 | 136.8 |
| 72.5° | 365.0 | 207.6 | 77.7 | 77.7 | 111.2 | 112.2 | 125.0 | 110.2 | 123.0 | 126.9 | 121.0 |
| 75° | 274.5 | 133.8 | 54.1 | 60.0 | 70.8 | 87.6 | 89.5 | 92.5 | 104.3 | 109.2 | 103.3 |
| 77.5° | 125.9 | 49.2 | 32.5 | 44.3 | 49.2 | 66.9 | 57.1 | 68.9 | 77.7 | 79.7 | 74.8 |
| 80° | 72.8 | 27.5 | 21.6 | 28.5 | 31.5 | 55.1 | 33.5 | 41.3 | 55.1 | 58.0 | 52.1 |
| 82.5° | 30.5 | 13.8 | 14.8 | 17.7 | 18.7 | 30.5 | 23.6 | 26.6 | 36.4 | 35.4 | 31.5 |
| 85° | 8.9 | 8.9 | 9.8 | 10.8 | 10.8 | 17.7 | 16.7 | 15.7 | 16.7 | 16.7 | 13.8 |
| 87.5° | 5.9 | 5.9 | 5.9 | 6.9 | 6.9 | 7.9 | 8.9 | 9.8 | 9.8 | 9.8 | 8.9 |
| 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):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 |
| 2.5° | 498.8 | 490.0 | 477.2 | 475.2 | 468.3 | 463.4 | 468.3 | 473.2 | 482.1 | 483.1 | 487.0 |
| 5° | 457.5 | 436.8 | 421.1 | 403.4 | 394.5 | 393.6 | 391.6 | 397.5 | 410.3 | 418.2 | 424.1 |
| 7.5° | 430.0 | 392.6 | 365.0 | 340.4 | 331.6 | 324.7 | 330.6 | 329.6 | 346.3 | 353.2 | 359.1 |
| 10° | 415.2 | 363.1 | 321.7 | 291.2 | 279.4 | 272.5 | 271.6 | 273.5 | 283.4 | 290.2 | 297.1 |
| 12.5° | 425.0 | 351.2 | 290.2 | 254.8 | 242.0 | 234.2 | 227.3 | 227.3 | 229.2 | 238.1 | 241.1 |
| 15° | 457.5 | 358.1 | 275.5 | 237.1 | 220.4 | 207.6 | 198.7 | 191.9 | 192.8 | 193.8 | 196.8 |
| 17.5° | 504.7 | 375.8 | 270.6 | 226.3 | 208.6 | 192.8 | 184.0 | 176.1 | 174.1 | 174.1 | 173.2 |
| 20° | 550.0 | 389.6 | 266.6 | 217.4 | 194.8 | 181.0 | 173.2 | 166.3 | 163.3 | 163.3 | 163.3 |
| 22.5° | 568.7 | 401.4 | 261.7 | 206.6 | 181.0 | 168.2 | 161.4 | 156.4 | 155.5 | 155.5 | 154.5 |
| 25° | 553.9 | 397.5 | 255.8 | 195.8 | 168.2 | 158.4 | 152.5 | 147.6 | 146.6 | 147.6 | 146.6 |
| 27.5° | 507.7 | 383.7 | 247.9 | 186.9 | 158.4 | 149.6 | 144.6 | 139.7 | 138.7 | 139.7 | 139.7 |
| 30° | 458.5 | 360.1 | 235.1 | 180.1 | 150.5 | 140.7 | 135.8 | 130.9 | 130.9 | 131.8 | 132.8 |
| 32.5° | 419.1 | 336.5 | 220.4 | 171.2 | 141.7 | 132.8 | 127.9 | 123.0 | 123.0 | 125.0 | 125.0 |
| 35° | 385.7 | 317.8 | 205.6 | 162.3 | 133.8 | 124.0 | 120.0 | 116.1 | 115.1 | 117.1 | 118.1 |
| 37.5° | 359.1 | 301.1 | 189.9 | 153.5 | 125.9 | 117.1 | 113.1 | 108.2 | 107.2 | 109.2 | 111.2 |
| 40° | 331.6 | 282.4 | 176.1 | 142.7 | 118.1 | 109.2 | 105.3 | 99.4 | 99.4 | 101.3 | 103.3 |
| 42.5° | 305.0 | 265.6 | 167.3 | 132.8 | 110.2 | 100.4 | 96.4 | 91.5 | 91.5 | 93.5 | 95.4 |
| 45° | 283.4 | 249.9 | 162.3 | 123.0 | 101.3 | 92.5 | 87.6 | 83.6 | 84.6 | 86.6 | 88.5 |
| 47.5° | 262.7 | 233.2 | 163.3 | 118.1 | 95.4 | 83.6 | 78.7 | 75.8 | 77.7 | 80.7 | 82.6 |
| 50° | 247.0 | 221.4 | 164.3 | 110.2 | 87.6 | 76.7 | 71.8 | 69.9 | 72.8 | 75.8 | 77.7 |
| 52.5° | 237.1 | 209.6 | 158.4 | 100.4 | 81.7 | 69.9 | 66.9 | 66.9 | 69.9 | 71.8 | 73.8 |
| 55° | 227.3 | 189.9 | 145.6 | 89.5 | 75.8 | 64.9 | 63.0 | 63.0 | 65.9 | 67.9 | 68.9 |
| 57.5° | 219.4 | 169.2 | 130.9 | 80.7 | 68.9 | 60.0 | 60.0 | 60.0 | 61.0 | 62.0 | 64.0 |
| 60° | 204.6 | 147.6 | 112.2 | 73.8 | 62.0 | 56.1 | 55.1 | 55.1 | 54.1 | 55.1 | 58.0 |
| 62.5° | 179.1 | 124.0 | 95.4 | 65.9 | 56.1 | 51.2 | 50.2 | 47.2 | 44.3 | 45.3 | 47.2 |
| 65° | *151.5* | *98.4* | *79.7* | *57.1* | *48.2* | *45.3* | *44.3* | *39.4* | *35.4* | *36.4* | *39.4* |
| 67.5° | 121.0 | 73.8 | 66.9 | 49.2 | 41.3 | 38.4 | 38.4 | 35.4 | 32.5 | 32.5 | 34.4 |
| 70° | 94.5 | 62.0 | 50.2 | 39.4 | 32.5 | 32.5 | 34.4 | 31.5 | 27.5 | 27.5 | 30.5 |
| 72.5° | 76.7 | 50.2 | 40.3 | 30.5 | 25.6 | 27.5 | 28.5 | 25.6 | 22.6 | 22.6 | 24.6 |
| 75° | 60.0 | 39.4 | 31.5 | 22.6 | 19.7 | 20.7 | 22.6 | 20.7 | 17.7 | 18.7 | 19.7 |
| 77.5° | 41.3 | 26.6 | 20.7 | 16.7 | 14.8 | 15.7 | 15.7 | 14.8 | 13.8 | 13.8 | 14.8 |
| 80° | 27.5 | 17.7 | 13.8 | 11.8 | 10.8 | 10.8 | 9.8 | 9.8 | 10.8 | 10.8 | 11.8 |
| 82.5° | 19.7 | 12.8 | 10.8 | 8.9 | 6.9 | 6.9 | 7.9 | 7.9 | 8.9 | 8.9 | 9.8 |
| 85° | 11.8 | 8.9 | 7.9 | 5.9 | 4.9 | 5.9 | 5.9 | 6.9 | 7.9 | 7.9 | 8.9 |
| 87.5° | 8.9 | 6.9 | 5.9 | 4.9 | 3.9 | 3.9 | 4.9 | 4.9 | 5.9 | 6.9 | 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1365296
CATALOG NUMBER: GSS-SB1B-722-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 |
| 2.5° | 496.9 | 508.7 | 525.4 | 540.2 | 557.9 | 575.6 | 592.3 | 608.0 | 609.0 | 610.0 |
| 5° | 442.7 | 466.4 | 493.9 | 527.4 | 562.8 | 597.2 | 633.6 | 663.1 | 670.0 | 674.0 |
| 7.5° | 382.7 | 417.2 | 459.5 | 506.7 | 559.8 | 613.0 | 664.1 | 708.4 | 725.1 | 729.1 |
| 10° | 319.8 | 362.1 | 413.2 | 474.2 | 546.1 | 616.9 | 685.8 | 739.9 | 759.6 | 763.5 |
| 12.5° | 263.7 | 298.1 | 357.2 | 430.9 | 517.5 | 611.0 | 693.6 | 753.7 | 773.3 | 778.3 |
| 15° | 215.5 | 247.9 | 303.0 | 380.8 | 478.2 | 590.3 | 687.7 | 756.6 | 776.3 | 780.2 |
| 17.5° | 178.1 | 198.7 | 248.9 | 333.5 | 442.7 | 563.8 | 679.9 | 758.6 | 777.3 | 780.2 |
| 20° | 163.3 | 167.3 | 193.8 | 276.5 | 405.4 | 544.1 | 674.9 | 761.5 | 780.2 | 783.2 |
| 22.5° | 156.4 | 156.4 | 162.3 | 210.6 | 353.2 | 523.4 | 673.0 | 770.4 | 784.2 | 787.1 |
| 25° | 149.6 | 149.6 | 151.5 | 165.3 | 291.2 | 497.8 | 676.9 | 786.1 | 795.0 | 795.0 |
| 27.5° | 142.7 | 142.7 | 144.6 | 147.6 | 216.5 | 455.5 | 677.9 | 803.8 | 807.8 | 804.8 |
| 30° | 135.8 | 137.7 | 137.7 | 139.7 | 159.4 | 402.4 | 672.0 | 823.5 | 823.5 | 817.6 |
| 32.5° | 128.9 | 129.9 | 131.8 | 132.8 | 138.7 | 333.5 | 662.2 | 848.1 | 843.2 | 835.3 |
| 35° | 123.0 | 124.0 | 124.0 | 125.9 | 131.8 | 266.6 | 651.3 | 881.6 | 867.8 | 858.9 |
| 37.5° | 115.1 | 116.1 | 117.1 | 119.1 | 125.0 | 211.5 | 635.6 | 910.1 | 900.3 | 888.4 |
| 40° | 108.2 | 109.2 | 110.2 | 112.2 | 118.1 | 182.0 | 615.9 | 953.4 | 951.4 | 937.6 |
| 42.5° | 100.4 | 102.3 | 103.3 | 104.3 | 112.2 | 166.3 | 602.1 | 1023.2 | 1023.2 | 1006.5 |
| 45° | 93.5 | 95.4 | 95.4 | 97.4 | 108.2 | 152.5 | 632.6 | 1119.7 | 1127.5 | 1111.8 |
| 47.5° | 87.6 | 88.5 | 88.5 | 89.5 | 102.3 | 140.7 | 714.3 | 1267.2 | 1257.4 | 1246.6 |
| 50° | 81.7 | 83.6 | 81.7 | 82.6 | 97.4 | 147.6 | 849.1 | 1456.2 | 1481.7 | 1463.0 |
| 52.5° | 77.7 | 78.7 | 74.8 | 74.8 | 90.5 | 156.4 | 959.3 | 1697.2 | 1782.8 | 1760.2 |
| 55° | 72.8 | 73.8 | 68.9 | 68.9 | 79.7 | 135.8 | 966.2 | 1971.7 | 2159.6 | 2174.4 |
| 57.5° | 67.9 | 67.9 | 64.0 | 63.0 | 68.9 | 110.2 | 857.0 | 2184.2 | 2610.2 | 2643.7 |
| 60° | 62.0 | 61.0 | 59.0 | 57.1 | 63.0 | 101.3 | 653.3 | 2155.7 | 2833.6 | 2949.7 |
| 62.5° | 53.1 | 55.1 | 54.1 | 50.2 | 57.1 | 94.5 | 426.0 | 1865.4 | 2581.7 | 2684.0 |
| 65° | *44.3* | *47.2* | *47.2* | *44.3* | *63.0* | *82.6* | *224.3* | *1493.5* | *2154.7* | *2277.7* |
| 67.5° | 39.4 | 41.3 | 40.3 | 38.4 | 56.1 | 52.1 | 108.2 | 1145.2 | 1844.8 | 1962.9 |
| 70° | 34.4 | 36.4 | 33.5 | 31.5 | 45.3 | 37.4 | 64.0 | 766.4 | 1523.1 | 1638.2 |
| 72.5° | 28.5 | 30.5 | 27.5 | 24.6 | 33.5 | 28.5 | 42.3 | 498.8 | 1268.2 | 1396.1 |
| 75° | 23.6 | 24.6 | 22.6 | 19.7 | 24.6 | 22.6 | 29.5 | 325.7 | 1060.6 | 1155.1 |
| 77.5° | 16.7 | 18.7 | 17.7 | 14.8 | 17.7 | 15.7 | 20.7 | 186.0 | 739.9 | 810.7 |
| 80° | 12.8 | 12.8 | 12.8 | 11.8 | 10.8 | 10.8 | 13.8 | 83.6 | 359.1 | 399.5 |
| 82.5° | 10.8 | 10.8 | 9.8 | 8.9 | 7.9 | 6.9 | 7.9 | 24.6 | 169.2 | 179.1 |
| 85° | 9.8 | 7.9 | 6.9 | 5.9 | 4.9 | 3.0 | 3.0 | 6.9 | 34.4 | 28.5 |
| 87.5° | 5.9 | 4.9 | 3.9 | 2.0 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 1.0 |
| 90° | 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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

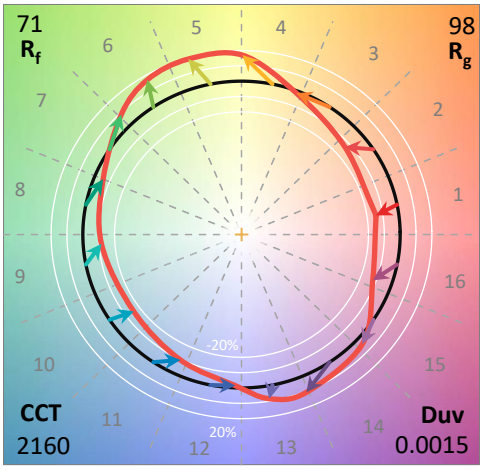
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-2 |
| 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-722-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2160 |
| CIE u': | 0.2927 |
| CIE v': | 0.5388 |
| Duv: | 0.0015 |
| CIE x: | 0.5130 |
| CIE y: | 0.4197 |
| CIE z: | 0.0674 |
| Peak Wavelength (nm): | 609 |
| Dominant Wavelength (nm): | 587 |
| Purity: | 79.96089 |
| Rf: | 70.6 |
| Rg: | 97.6 |

| | |
|---|---|
| CRI (Ra): | 71.9 |
| R1: | 68.7 |
| R2: | 82.6 |
| R3: | 95.5 |
| R4: | 66.4 |
| R5: | 65.4 |
| R6: | 75.9 |
| R7: | 77.2 |
| R8: | 43.5 |
| R9: | -17.8 |
| R10: | 60.5 |
| R11: | 60.2 |
| R12: | 48.2 |
| R13: | 70.7 |
| R14: | 96.8 |
| R15: | 61.8 |




## Test Conditions

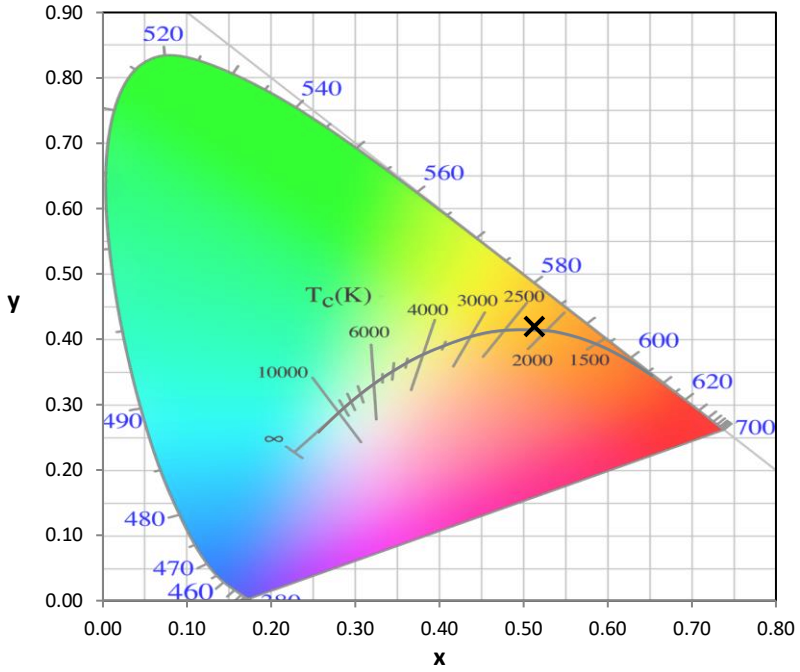
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-2

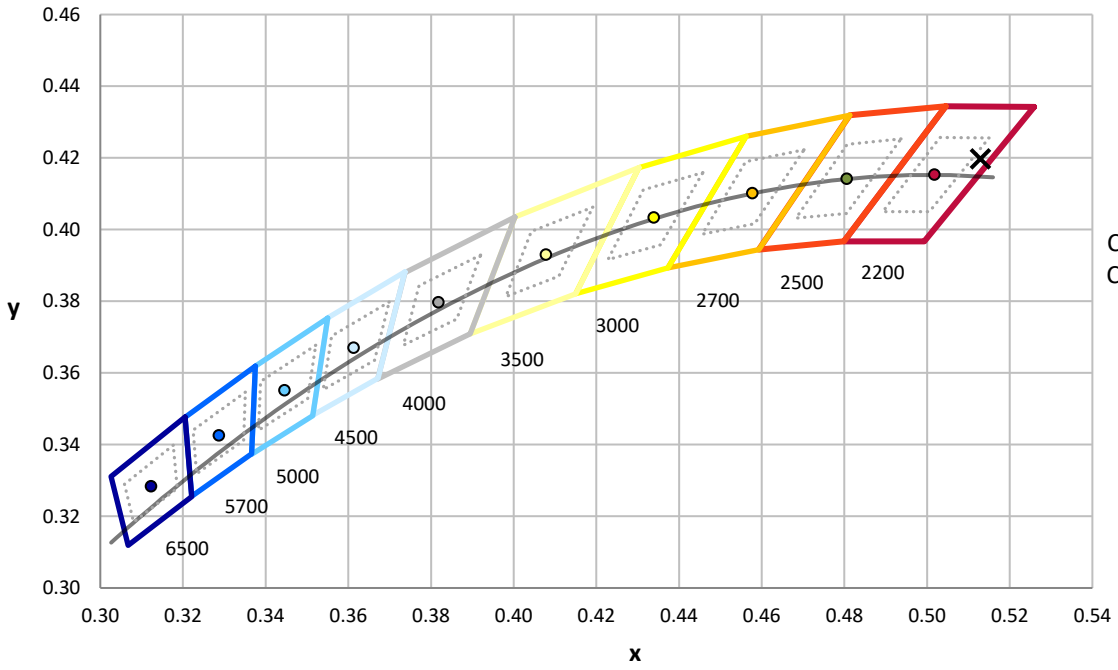
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-2

## CIE 1931 Chromaticity Diagram




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

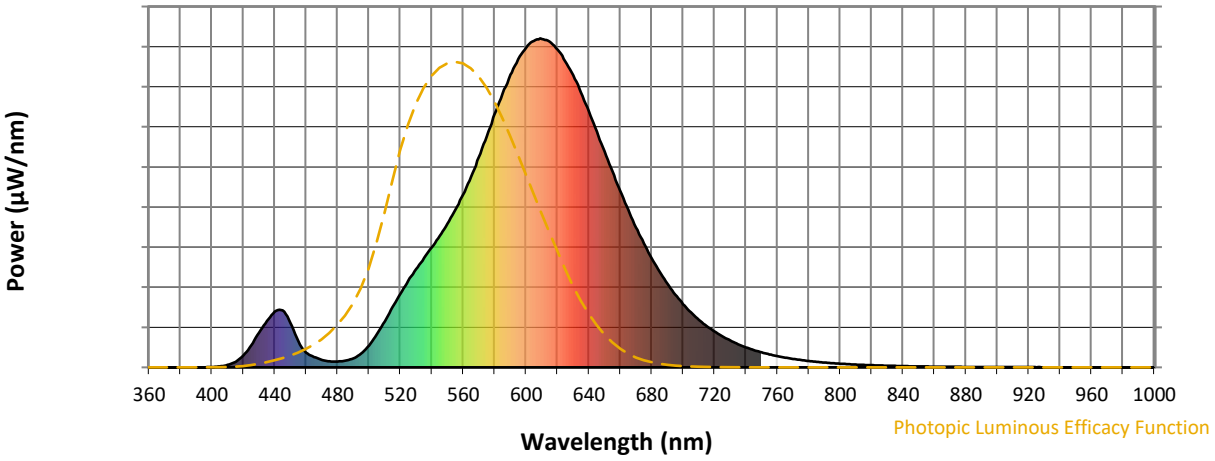



CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

## Photopic Flux vs. Wavelength

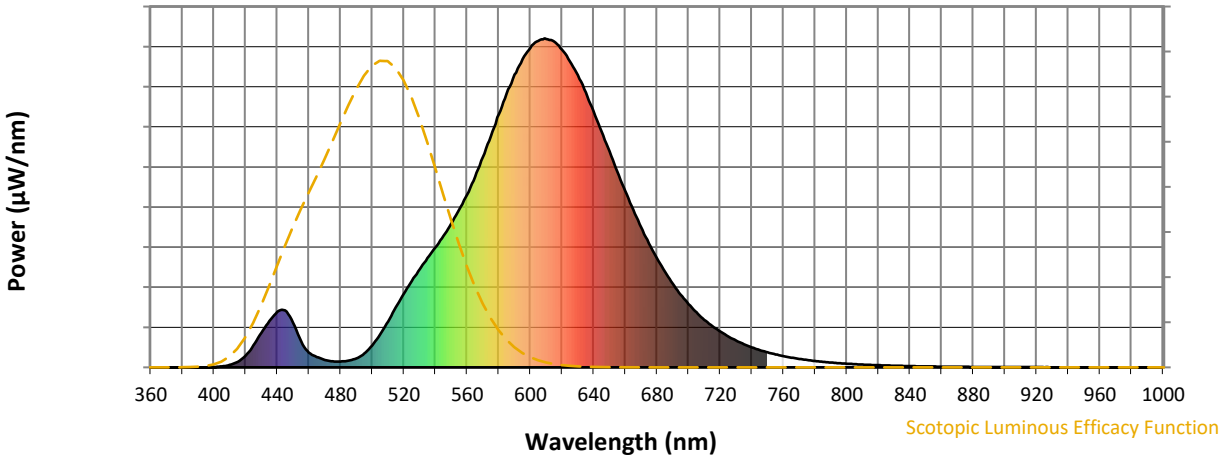



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Scotopic Flux vs. Wavelength

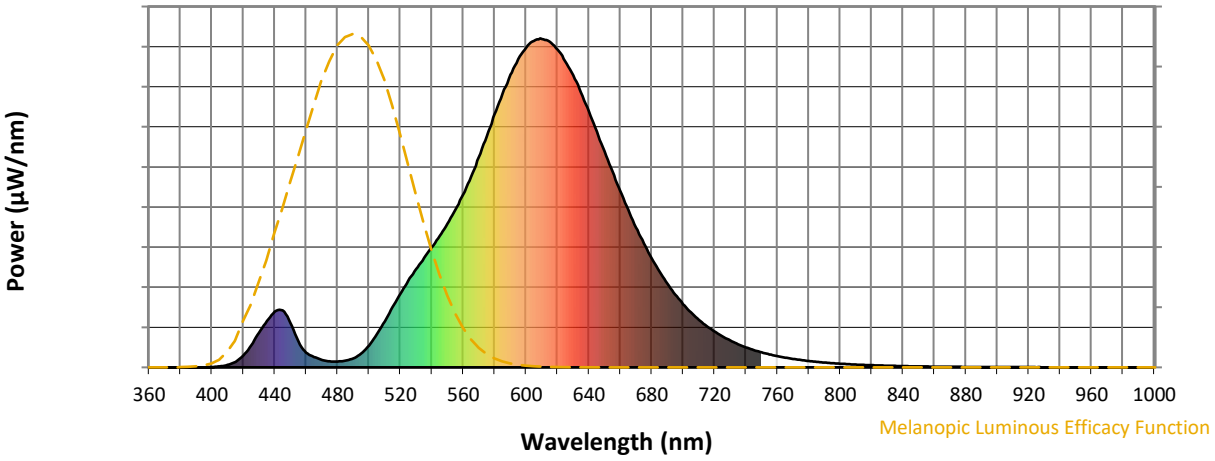



**Scotopic Lumens: NR** **S/P: 0.8**

| 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 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.21**

| 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 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

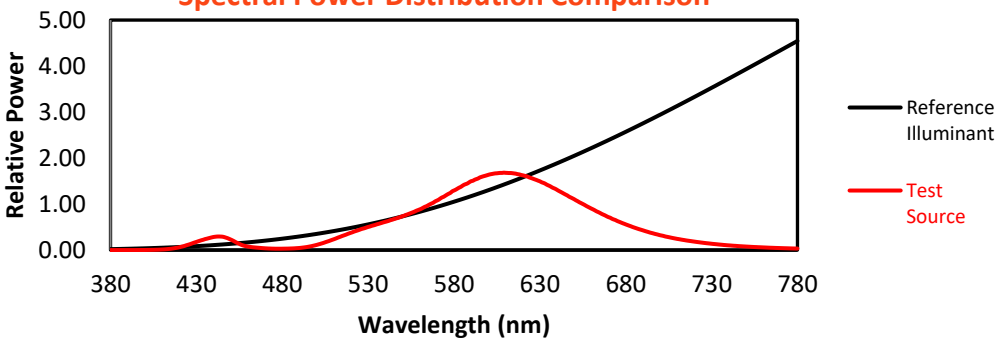
REPORT NUMBER: SP1-2407-184-2

# TM-30-18

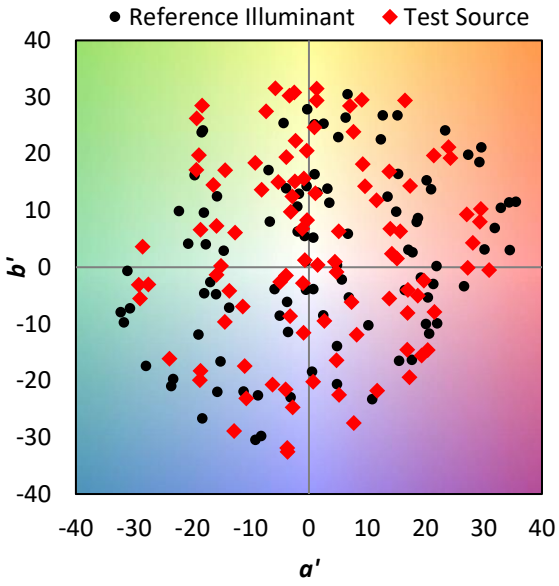
## Summary

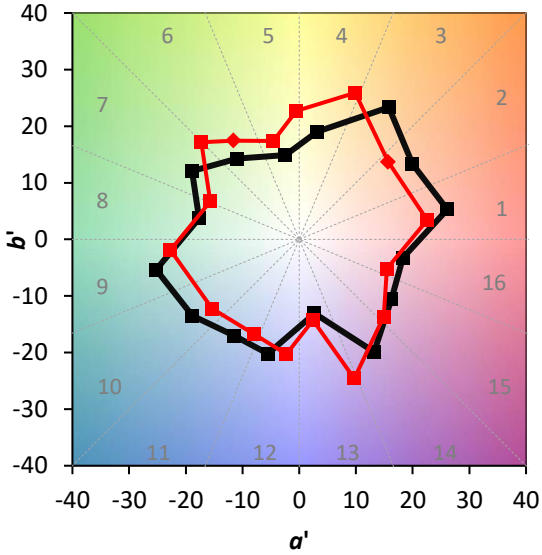
$R_f$ = 70.6
$R_g$ = 97.6
CIE $R_a$ = 71.9
$R_9$ = -17.8

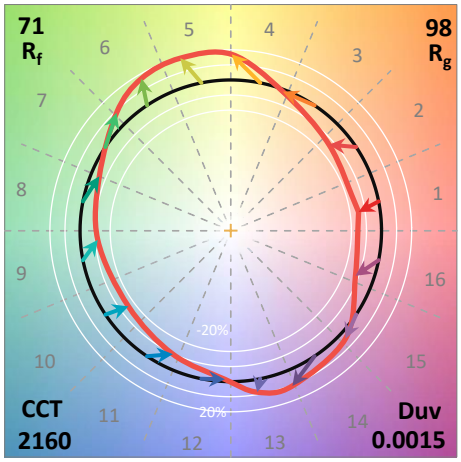
## Spectral Power Distribution Comparison

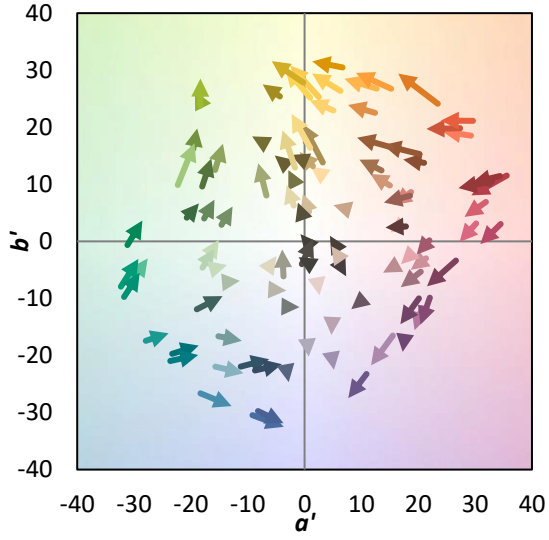



## Color Vector Graphics



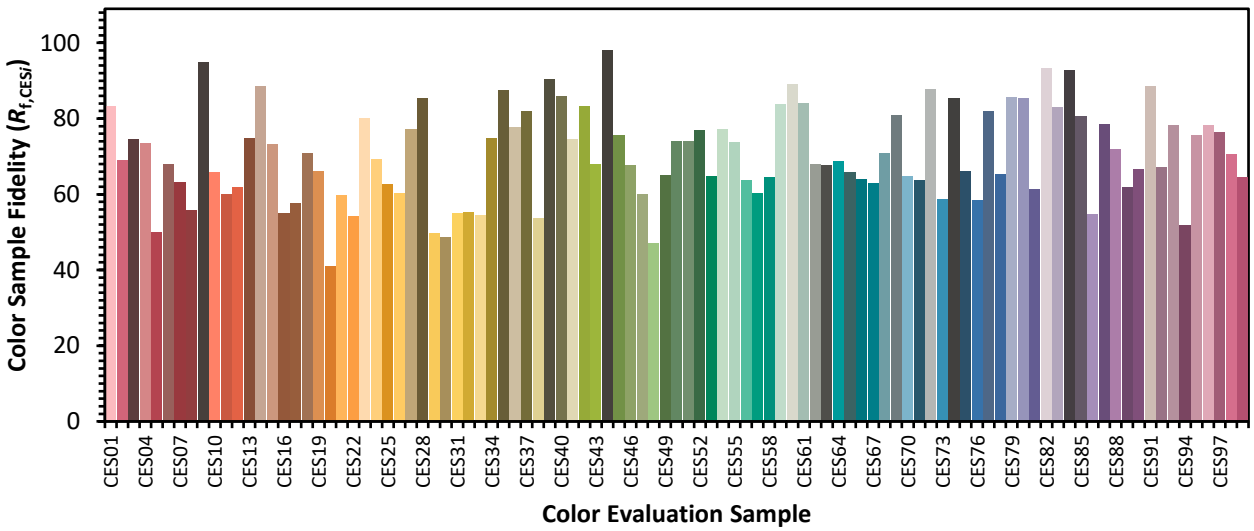



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## Individual Sample Fidelity Index ($R_{f,i}$)

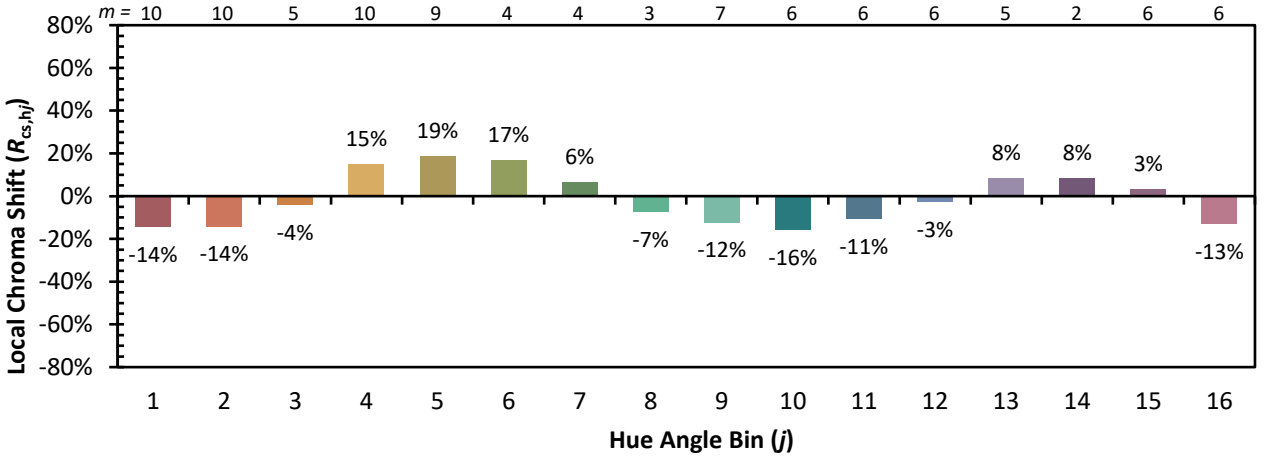
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |

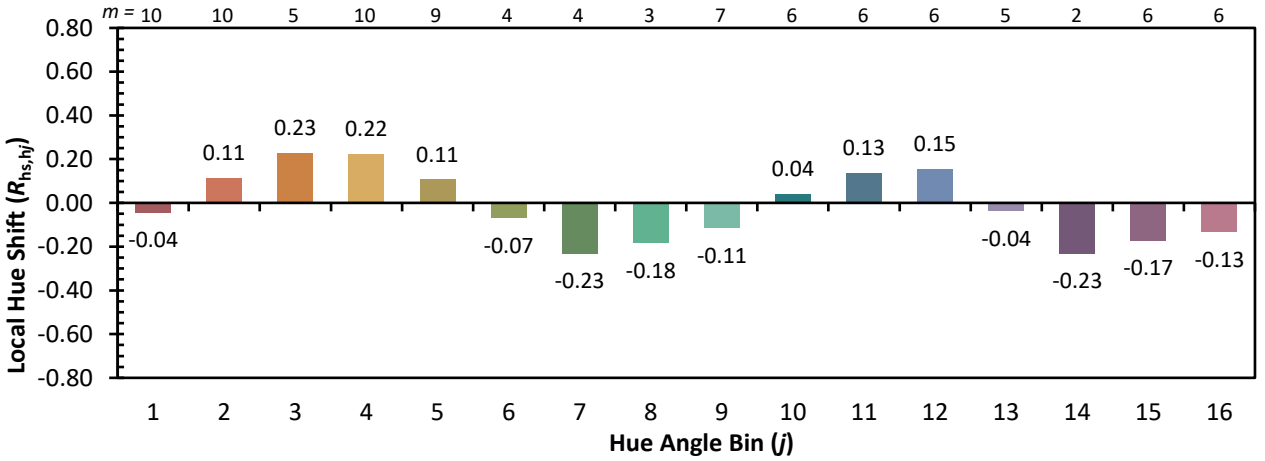


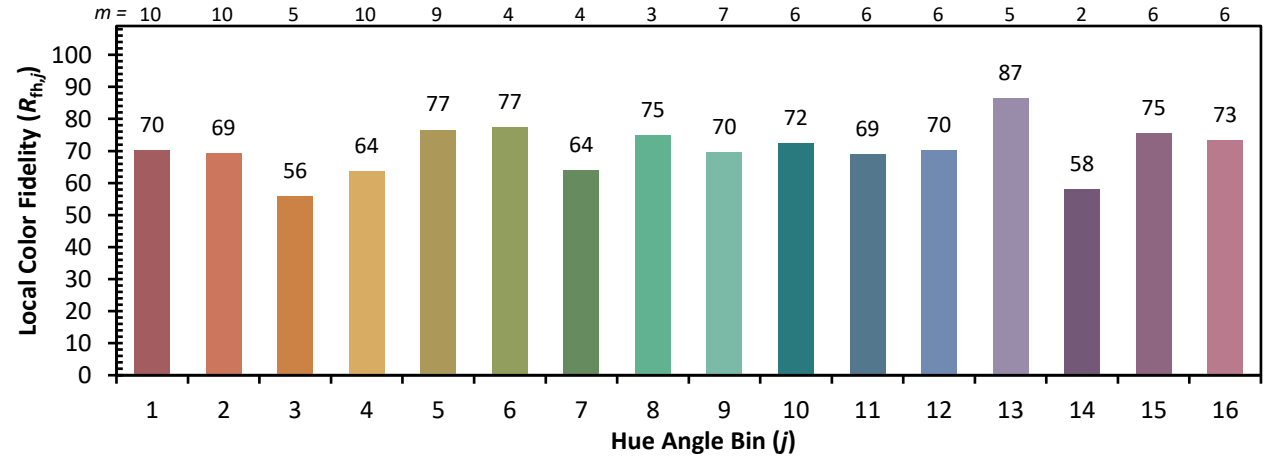
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## Color Rendition by Hue-Angle Bin



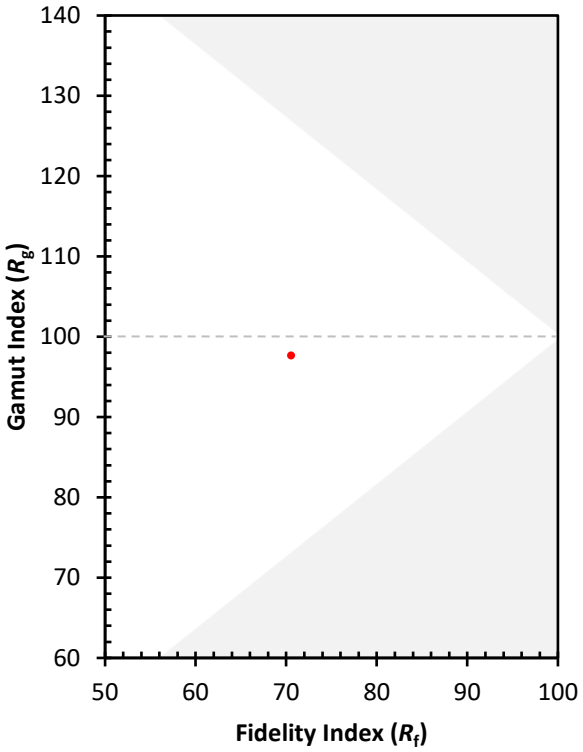



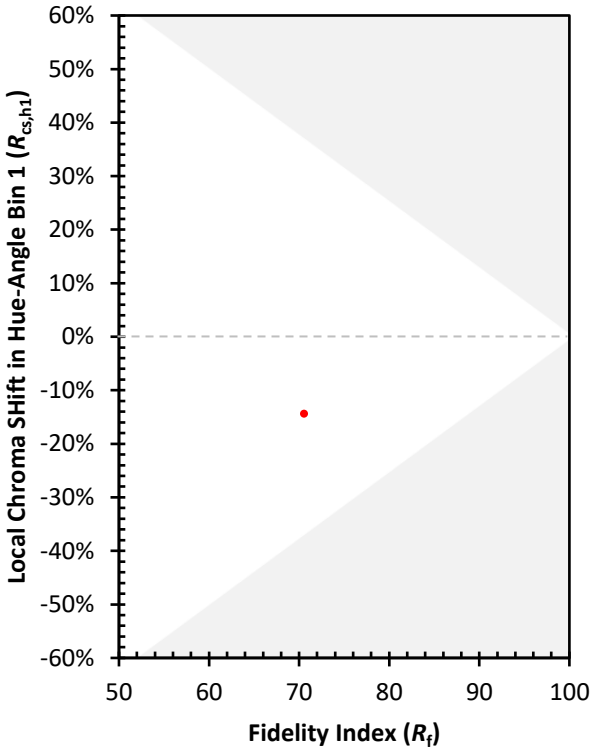



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## Measure Comparisons




(END OF REPORT)