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: P1364552

Luminaire Tested: **GSS-SB1B-727-U-SLR-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: | P1364552 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB1B-727-U-SLR-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 70CRI 2700K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (26) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3598 lumens |
| Efficiency: | N/A |
| Efficacy: | 89.9 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 |

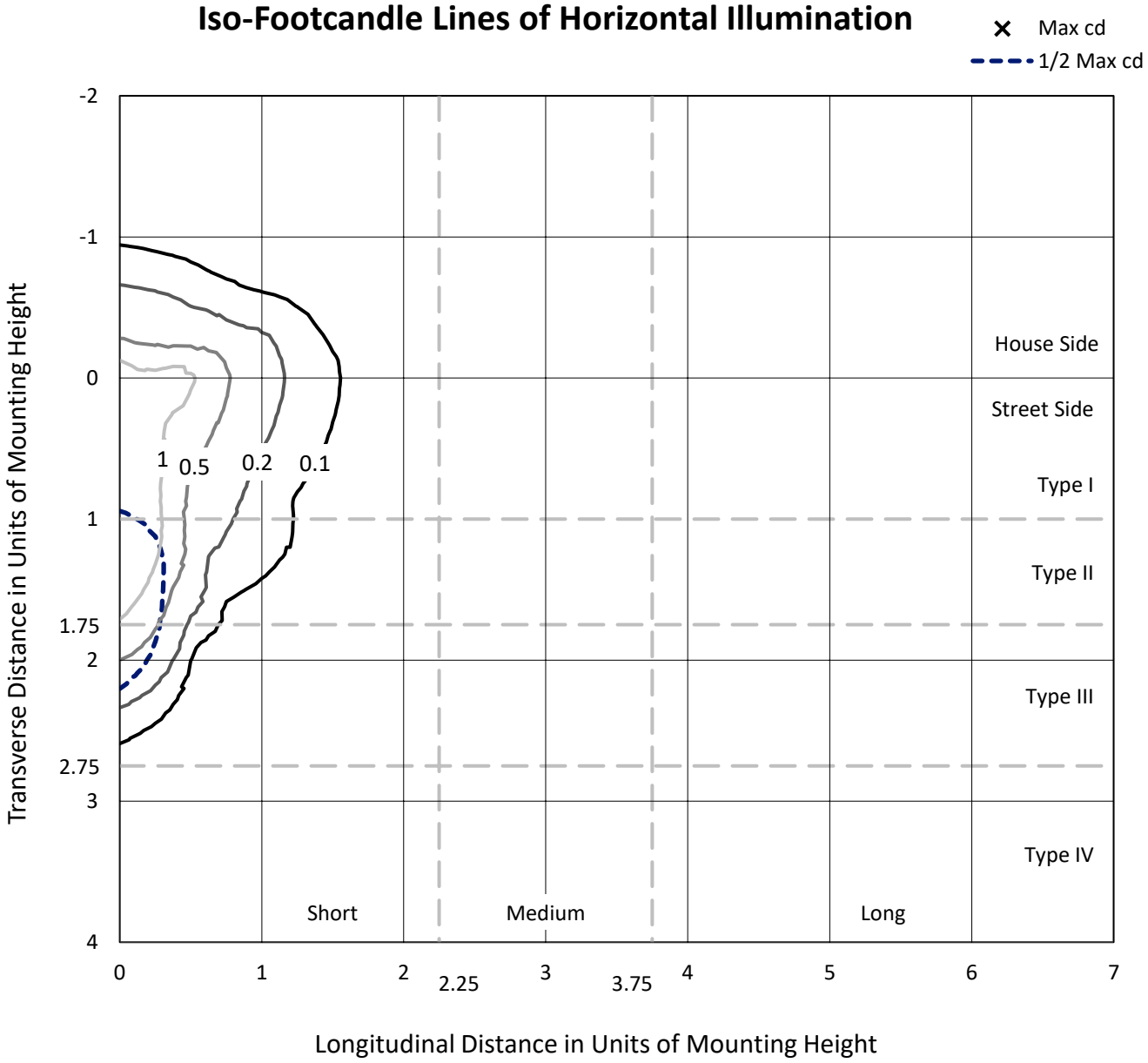
| | |
|---|---|
| Input Watts (W): | 40 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 5.3% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



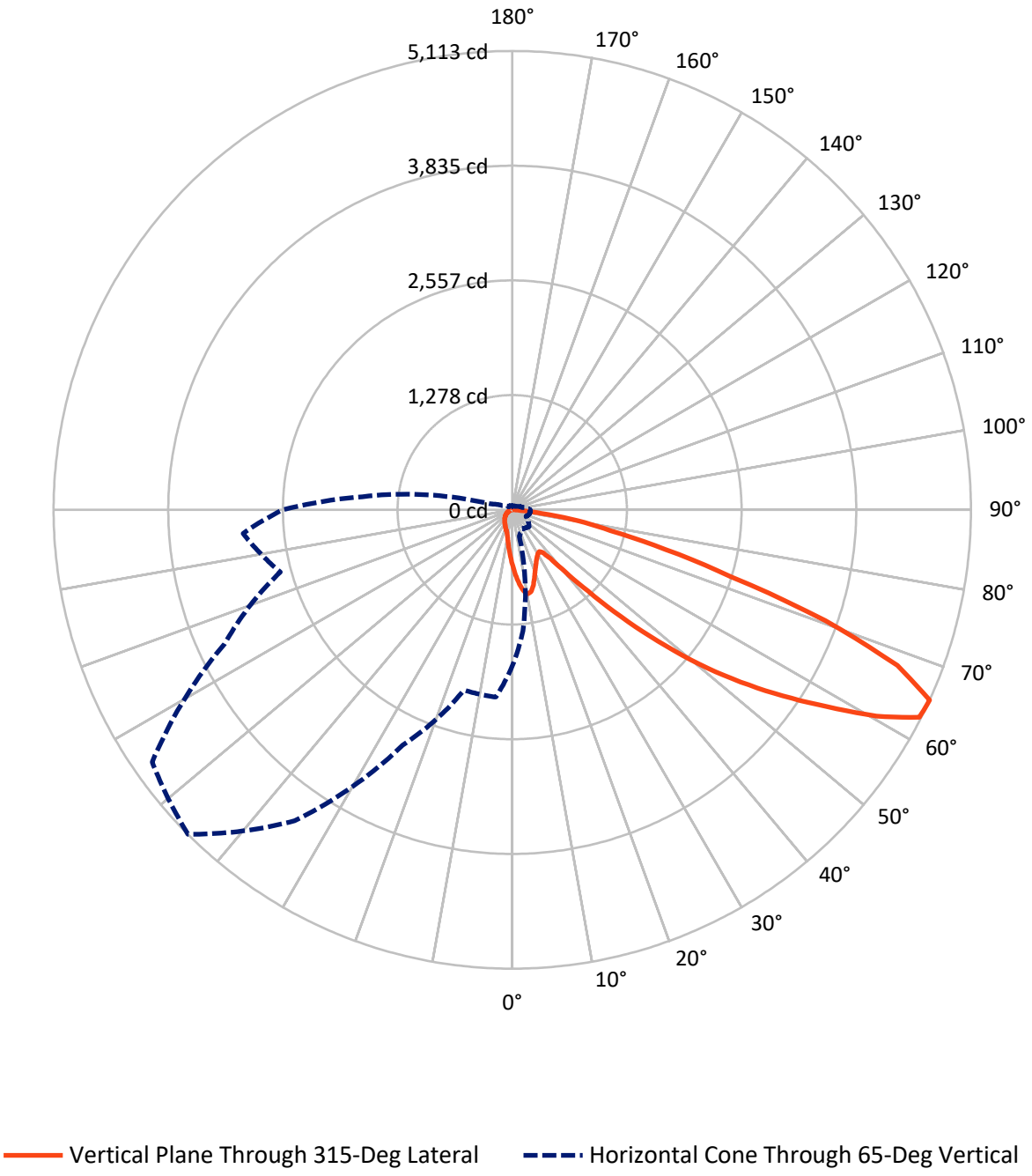

Based on 20 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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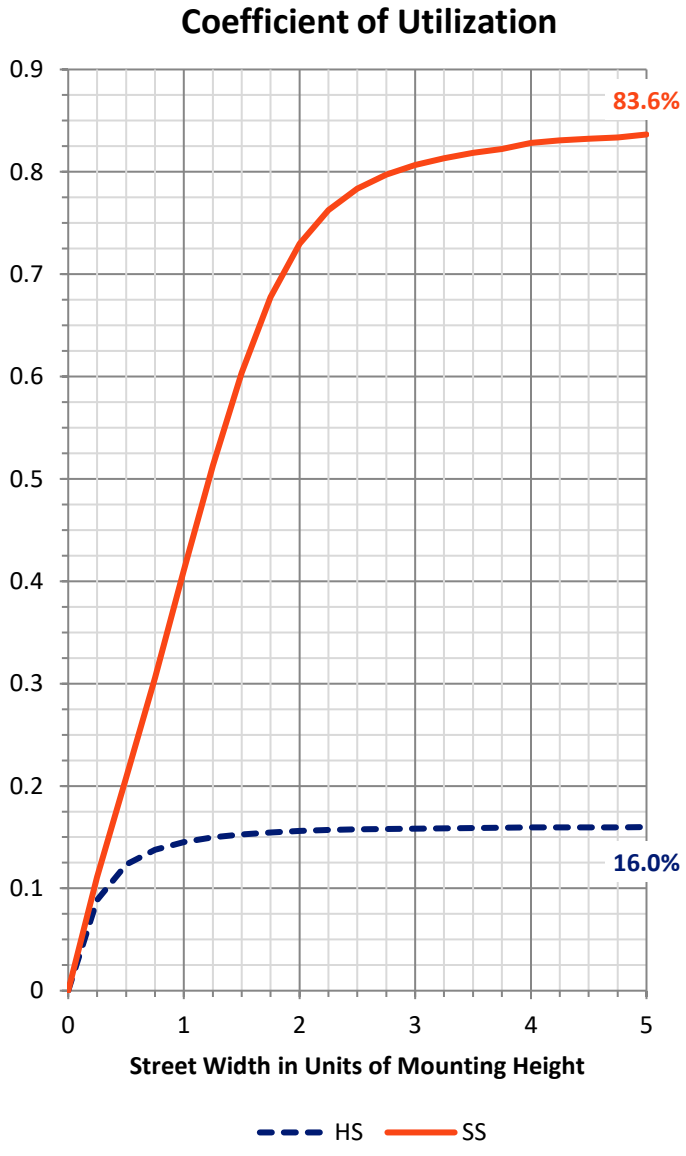
REPORT NUMBER: P1364552
CATALOG NUMBER: GSS-SB1B-727-U-SLR-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 581.6 | 0.0 | 581.6 |
| | % Fixture | 16.2 | 0.0 | 16.2 |
| **Street Side** | Lumens | 3016.3 | 0.0 | 3016.3 |
| | % Fixture | 83.8 | 0.0 | 83.8 |
| **Total** | Lumens | 3598.0 | 0.0 | 3598.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 59.8 | 1.7 |
| 10°-20° | 165.3 | 4.6 |
| 20°-30° | 236.8 | 6.6 |
| 30°-40° | 297.0 | 8.3 |
| 40°-50° | 487.9 | 13.6 |
| 50°-60° | 880.4 | 24.5 |
| 60°-70° | 977.1 | 27.2 |
| 70°-80° | 441.5 | 12.3 |
| 80°-90° | 52.2 | 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° | 3598.0 | 100.0 |
| 0°-180° | 3598.0 | 100.0 |



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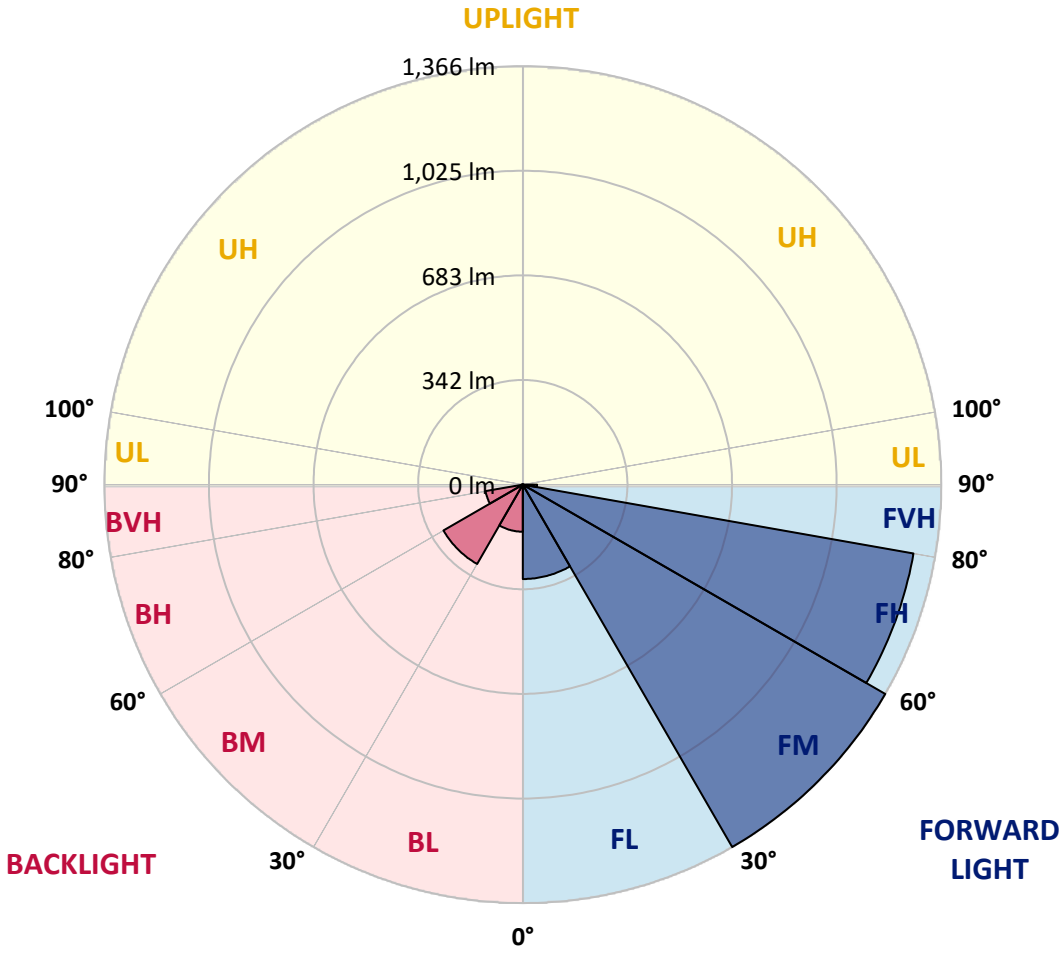
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 308.2 | 8.6 | | | |
| FM | (30°-60°) | 1366.2 | 38.0 | | | |
| FH | (60°-80°) | 1295.0 | 36.0 | | | G1/1800 |
| FVH | (80°-90°) | 46.9 | 1.3 | | | G1/100 |
| BL | (0°-30°) | 153.7 | 4.3 | B1/500 | | |
| BM | (30°-60°) | 299.1 | 8.3 | B1/1000 | | |
| BH | (60°-80°) | 123.5 | 3.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.3 | 0.1 | | | 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° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 701.6 | 700.9 | 698.2 | 681.7 | 665.1 | 650.7 | 636.4 | 622.0 | 602.1 | 586.7 | 573.4 |
| 5° | 767.9 | 764.3 | 750.2 | 724.8 | 697.1 | 672.8 | 645.2 | 618.7 | 588.9 | 564.6 | 539.2 |
| 7.5° | 813.2 | 809.6 | 795.5 | 753.5 | 711.5 | 681.7 | 651.8 | 624.2 | 591.1 | 559.0 | 522.6 |
| 10° | 834.1 | 830.2 | 814.3 | 769.0 | 720.3 | 683.9 | 654.1 | 628.6 | 601.0 | 569.0 | 523.7 |
| 12.5° | 848.5 | 843.6 | 824.2 | 772.3 | 722.6 | 686.1 | 655.2 | 630.9 | 611.0 | 592.2 | 548.0 |
| 15° | 857.3 | 852.9 | 835.2 | 781.1 | 723.7 | 682.8 | 646.3 | 623.1 | 616.5 | 619.8 | 598.8 |
| 17.5° | 870.6 | 866.4 | 849.6 | 792.2 | 730.3 | 677.3 | 627.5 | 602.1 | 616.5 | 646.3 | 653.0 |
| 20° | 888.3 | 883.9 | 866.2 | 806.5 | 735.8 | 660.7 | 592.2 | 567.9 | 604.3 | 654.1 | 688.3 |
| 22.5° | 908.2 | 904.6 | 890.5 | 823.1 | 741.3 | 636.4 | 545.8 | 534.7 | 578.9 | 632.0 | 676.2 |
| 25° | 932.5 | 929.2 | 915.9 | 846.3 | 746.9 | 603.2 | 506.0 | 508.2 | 545.8 | 587.8 | 633.1 |
| 27.5° | 965.6 | 962.5 | 950.1 | 875.0 | 753.5 | 569.0 | 474.0 | 485.0 | 512.6 | 541.4 | 569.0 |
| 30° | 1002.1 | 999.6 | 989.9 | 909.3 | 766.7 | 536.9 | 455.2 | 461.8 | 480.6 | 503.8 | 520.4 |
| 32.5° | 1051.8 | 1047.8 | 1031.9 | 941.3 | 765.6 | 512.6 | 446.3 | 439.7 | 445.2 | 464.0 | 480.6 |
| 35° | 1113.7 | 1110.6 | 1098.2 | 974.5 | 745.8 | 490.5 | 441.9 | 418.7 | 415.4 | 426.5 | 443.0 |
| 37.5° | 1204.3 | 1201.6 | 1191.0 | 1028.6 | 714.8 | 462.9 | 430.9 | 396.6 | 385.6 | 393.3 | 404.4 |
| 40° | 1340.2 | 1333.3 | 1305.9 | 1090.5 | 680.6 | 435.3 | 411.0 | 370.1 | 354.6 | 360.2 | 372.3 |
| 42.5° | 1524.7 | 1511.6 | 1459.5 | 1173.3 | 634.2 | 408.8 | 381.2 | 343.6 | 327.0 | 330.3 | 341.4 |
| 45° | 1761.1 | 1741.4 | 1662.8 | 1287.1 | 585.6 | 387.8 | 350.2 | 316.0 | 298.3 | 301.6 | 313.8 |
| 47.5° | 2037.3 | 2010.3 | 1902.5 | 1406.4 | 533.6 | 375.6 | 325.9 | 288.4 | 275.1 | 282.8 | 295.0 |
| 50° | 2363.2 | 2336.0 | 2227.3 | 1482.7 | 491.6 | 367.9 | 307.1 | 262.9 | 257.4 | 267.4 | 277.3 |
| 52.5° | 2719.0 | 2680.3 | 2525.6 | 1434.1 | 457.4 | 361.3 | 300.5 | 245.3 | 247.5 | 255.2 | 265.2 |
| 55° | 3064.8 | 2978.8 | 2635.0 | 1272.8 | 413.2 | 353.5 | 304.9 | 232.0 | 237.5 | 247.5 | 255.2 |
| 57.5° | 3290.2 | 3140.8 | 2543.3 | 1025.3 | 366.8 | 344.7 | 308.2 | 225.4 | 229.8 | 240.9 | 249.7 |
| 60° | 3093.5 | 2943.3 | 2342.2 | 767.9 | 327.0 | 325.9 | 302.7 | 223.2 | 216.5 | 232.0 | 239.7 |
| 62.5° | 2534.5 | 2410.7 | 1915.8 | 490.5 | 289.5 | 290.6 | 290.6 | 222.1 | 194.4 | 214.3 | 221.0 |
| 65° | *1741.2* | *1663.9* | *1354.5* | *303.8* | *236.4* | *247.5* | *264.1* | *215.4* | *171.2* | *194.4* | *201.1* |
| 67.5° | 1144.6 | 1087.8 | 860.7 | 187.8 | 182.3 | 203.3 | 228.7 | 202.2 | 153.6 | 174.6 | 179.0 |
| 70° | 620.9 | 577.8 | 405.5 | 123.7 | 119.3 | 159.1 | 180.1 | 171.2 | 138.1 | 155.8 | 160.2 |
| 72.5° | 409.9 | 374.5 | 233.1 | 87.3 | 87.3 | 124.8 | 126.0 | 140.3 | 123.7 | 138.1 | 142.5 |
| 75° | 308.2 | 276.6 | 150.3 | 60.8 | 67.4 | 79.5 | 98.3 | 100.5 | 103.9 | 117.1 | 122.6 |
| 77.5° | 141.4 | 124.2 | 55.2 | 36.5 | 49.7 | 55.2 | 75.1 | 64.1 | 77.3 | 87.3 | 89.5 |
| 80° | 81.8 | 71.6 | 30.9 | 24.3 | 32.0 | 35.4 | 61.9 | 37.6 | 46.4 | 61.9 | 65.2 |
| 82.5° | 34.2 | 30.5 | 15.5 | 16.6 | 19.9 | 21.0 | 34.2 | 26.5 | 29.8 | 40.9 | 39.8 |
| 85° | 9.9 | 9.9 | 9.9 | 11.0 | 12.2 | 12.2 | 19.9 | 18.8 | 17.7 | 18.8 | 18.8 |
| 87.5° | 6.6 | 6.6 | 6.6 | 6.6 | 7.7 | 7.7 | 8.8 | 9.9 | 11.0 | 11.0 | 11.0 |
| 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):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 567.9 | 560.1 | 550.2 | 535.8 | 533.6 | 525.9 | 520.4 | 525.9 | 531.4 | 541.4 | 542.5 |
| 5° | 525.9 | 513.7 | 490.5 | 472.9 | 453.0 | 443.0 | 441.9 | 439.7 | 446.3 | 460.7 | 469.6 |
| 7.5° | 502.7 | 482.8 | 440.8 | 409.9 | 382.3 | 372.3 | 364.6 | 371.2 | 370.1 | 388.9 | 396.6 |
| 10° | 497.2 | 466.2 | 407.7 | 361.3 | 327.0 | 313.8 | 306.0 | 304.9 | 307.1 | 318.2 | 325.9 |
| 12.5° | 517.1 | 477.3 | 394.4 | 325.9 | 286.1 | 271.8 | 262.9 | 255.2 | 255.2 | 257.4 | 267.4 |
| 15° | 561.3 | 513.7 | 402.2 | 309.4 | 266.3 | 247.5 | 233.1 | 223.2 | 215.4 | 216.5 | 217.7 |
| 17.5° | 623.1 | 566.8 | 422.0 | 303.8 | 254.1 | 234.2 | 216.5 | 206.6 | 197.8 | 195.6 | 195.6 |
| 20° | 671.7 | 617.6 | 437.5 | 299.4 | 244.2 | 218.8 | 203.3 | 194.4 | 186.7 | 183.4 | 183.4 |
| 22.5° | 677.3 | 638.6 | 450.8 | 293.9 | 232.0 | 203.3 | 188.9 | 181.2 | 175.7 | 174.6 | 174.6 |
| 25° | 640.8 | 622.0 | 446.3 | 287.3 | 219.9 | 188.9 | 177.9 | 171.2 | 165.7 | 164.6 | 165.7 |
| 27.5° | 580.0 | 570.1 | 430.9 | 278.4 | 209.9 | 177.9 | 167.9 | 162.4 | 156.9 | 155.8 | 156.9 |
| 30° | 525.9 | 514.8 | 404.4 | 264.1 | 202.2 | 169.0 | 158.0 | 152.5 | 146.9 | 146.9 | 148.0 |
| 32.5° | 481.7 | 470.7 | 377.9 | 247.5 | 192.2 | 159.1 | 149.2 | 143.6 | 138.1 | 138.1 | 140.3 |
| 35° | 441.9 | 433.1 | 356.9 | 230.9 | 182.3 | 150.3 | 139.2 | 134.8 | 130.4 | 129.3 | 131.5 |
| 37.5° | 407.7 | 403.3 | 338.1 | 213.2 | 172.4 | 141.4 | 131.5 | 127.1 | 121.5 | 120.4 | 122.6 |
| 40° | 374.5 | 372.3 | 317.1 | 197.8 | 160.2 | 132.6 | 122.6 | 118.2 | 111.6 | 111.6 | 113.8 |
| 42.5° | 343.6 | 342.5 | 298.3 | 187.8 | 149.2 | 123.7 | 112.7 | 108.3 | 102.7 | 102.7 | 105.0 |
| 45° | 319.3 | 318.2 | 280.6 | 182.3 | 138.1 | 113.8 | 103.9 | 98.3 | 93.9 | 95.0 | 97.2 |
| 47.5° | 297.2 | 295.0 | 261.8 | 183.4 | 132.6 | 107.2 | 93.9 | 88.4 | 85.1 | 87.3 | 90.6 |
| 50° | 279.5 | 277.3 | 248.6 | 184.5 | 123.7 | 98.3 | 86.2 | 80.7 | 78.4 | 81.8 | 85.1 |
| 52.5° | 268.5 | 266.3 | 235.3 | 177.9 | 112.7 | 91.7 | 78.4 | 75.1 | 75.1 | 78.4 | 80.7 |
| 55° | 257.4 | 255.2 | 213.2 | 163.5 | 100.5 | 85.1 | 72.9 | 70.7 | 70.7 | 74.0 | 76.2 |
| 57.5° | 250.8 | 246.4 | 190.0 | 146.9 | 90.6 | 77.3 | 67.4 | 67.4 | 67.4 | 68.5 | 69.6 |
| 60° | 240.9 | 229.8 | 165.7 | 126.0 | 82.9 | 69.6 | 63.0 | 61.9 | 61.9 | 60.8 | 61.9 |
| 62.5° | 219.9 | 201.1 | 139.2 | 107.2 | 74.0 | 63.0 | 57.5 | 56.3 | 53.0 | 49.7 | 50.8 |
| 65° | *198.9* | *170.1* | *110.5* | *89.5* | *64.1* | *54.1* | *50.8* | *49.7* | *44.2* | *39.8* | *40.9* |
| 67.5° | 172.4 | 135.9 | 82.9 | 75.1 | 55.2 | 46.4 | 43.1 | 43.1 | 39.8 | 36.5 | 36.5 |
| 70° | 153.6 | 106.1 | 69.6 | 56.3 | 44.2 | 36.5 | 36.5 | 38.7 | 35.4 | 30.9 | 30.9 |
| 72.5° | 135.9 | 86.2 | 56.3 | 45.3 | 34.2 | 28.7 | 30.9 | 32.0 | 28.7 | 25.4 | 25.4 |
| 75° | 116.0 | 67.4 | 44.2 | 35.4 | 25.4 | 22.1 | 23.2 | 25.4 | 23.2 | 19.9 | 21.0 |
| 77.5° | 84.0 | 46.4 | 29.8 | 23.2 | 18.8 | 16.6 | 17.7 | 17.7 | 16.6 | 15.5 | 15.5 |
| 80° | 58.6 | 30.9 | 19.9 | 15.5 | 13.3 | 12.2 | 12.2 | 11.0 | 11.0 | 12.2 | 12.2 |
| 82.5° | 35.4 | 22.1 | 14.4 | 12.2 | 9.9 | 7.7 | 7.7 | 8.8 | 8.8 | 9.9 | 9.9 |
| 85° | 15.5 | 13.3 | 9.9 | 8.8 | 6.6 | 5.5 | 6.6 | 6.6 | 7.7 | 8.8 | 8.8 |
| 87.5° | 9.9 | 9.9 | 7.7 | 6.6 | 5.5 | 4.4 | 4.4 | 5.5 | 5.5 | 6.6 | 7.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 546.9 | 557.9 | 571.2 | 590.0 | 606.5 | 626.4 | 646.3 | 665.1 | 682.8 | 685.0 | 692.7 |
| 5° | 476.2 | 497.2 | 523.7 | 554.6 | 592.2 | 632.0 | 670.6 | 711.5 | 744.7 | 756.8 | 774.5 |
| 7.5° | 403.3 | 429.8 | 468.4 | 516.0 | 569.0 | 628.6 | 688.3 | 745.8 | 795.5 | 818.7 | 841.9 |
| 10° | 333.7 | 359.1 | 406.6 | 464.0 | 532.5 | 613.2 | 692.7 | 770.1 | 830.8 | 857.3 | 879.4 |
| 12.5° | 270.7 | 296.1 | 334.8 | 401.1 | 483.9 | 581.1 | 686.1 | 778.9 | 846.3 | 873.9 | 894.9 |
| 15° | 221.0 | 242.0 | 278.4 | 340.3 | 427.6 | 536.9 | 662.9 | 772.3 | 849.6 | 876.1 | 891.6 |
| 17.5° | 194.4 | 200.0 | 223.2 | 279.5 | 374.5 | 497.2 | 633.1 | 763.4 | 851.8 | 876.1 | 885.0 |
| 20° | 183.4 | 183.4 | 187.8 | 217.7 | 310.5 | 455.2 | 611.0 | 757.9 | 855.1 | 879.4 | 878.3 |
| 22.5° | 173.5 | 175.7 | 175.7 | 182.3 | 236.4 | 396.6 | 587.8 | 755.7 | 865.1 | 883.9 | 868.4 |
| 25° | 164.6 | 167.9 | 167.9 | 170.1 | 185.6 | 327.0 | 559.0 | 760.1 | 882.8 | 892.7 | 861.8 |
| 27.5° | 156.9 | 160.2 | 160.2 | 162.4 | 165.7 | 243.1 | 511.5 | 761.2 | 902.6 | 903.7 | 852.9 |
| 30° | 149.2 | 152.5 | 154.7 | 154.7 | 156.9 | 179.0 | 451.9 | 754.6 | 924.7 | 918.1 | 851.8 |
| 32.5° | 140.3 | 144.7 | 145.8 | 148.0 | 149.2 | 155.8 | 374.5 | 743.5 | 952.4 | 938.0 | 852.9 |
| 35° | 132.6 | 138.1 | 139.2 | 139.2 | 141.4 | 148.0 | 299.4 | 731.4 | 989.9 | 964.5 | 857.3 |
| 37.5° | 124.8 | 129.3 | 130.4 | 131.5 | 133.7 | 140.3 | 237.5 | 713.7 | 1022.0 | 997.7 | 879.4 |
| 40° | 116.0 | 121.5 | 122.6 | 123.7 | 126.0 | 132.6 | 204.4 | 691.6 | 1070.6 | 1052.9 | 912.6 |
| 42.5° | 107.2 | 112.7 | 114.9 | 116.0 | 117.1 | 126.0 | 186.7 | 676.2 | 1149.0 | 1130.2 | 980.0 |
| 45° | 99.4 | 105.0 | 107.2 | 107.2 | 109.4 | 121.5 | 171.2 | 710.4 | 1257.3 | 1248.5 | 1070.6 |
| 47.5° | 92.8 | 98.3 | 99.4 | 99.4 | 100.5 | 114.9 | 158.0 | 802.1 | 1423.0 | 1399.8 | 1212.0 |
| 50° | 87.3 | 91.7 | 93.9 | 91.7 | 92.8 | 109.4 | 165.7 | 953.5 | 1635.1 | 1642.9 | 1419.7 |
| 52.5° | 82.9 | 87.3 | 88.4 | 84.0 | 84.0 | 101.6 | 175.7 | 1077.2 | 1905.8 | 1976.5 | 1748.9 |
| 55° | 77.3 | 81.8 | 82.9 | 77.3 | 77.3 | 89.5 | 152.5 | 1084.9 | 2214.1 | 2441.7 | 2177.6 |
| 57.5° | 71.8 | 76.2 | 76.2 | 71.8 | 70.7 | 77.3 | 123.7 | 962.3 | 2452.7 | 2968.7 | 2764.3 |
| 60° | 65.2 | 69.6 | 68.5 | 66.3 | 64.1 | 70.7 | 113.8 | 733.6 | 2420.7 | 3312.3 | 3437.1 |
| 62.5° | 53.0 | 59.7 | 61.9 | 60.8 | 56.3 | 64.1 | 106.1 | 478.4 | 2094.7 | 3014.0 | 3416.1 |
| 65° | *44.2* | *49.7* | *53.0* | *53.0* | *49.7* | *70.7* | *92.8* | *251.9* | *1677.1* | *2557.7* | *3011.8* |
| 67.5° | 38.7 | 44.2 | 46.4 | 45.3 | 43.1 | 63.0 | 58.6 | 121.5 | 1286.0 | 2204.1 | 2695.8 |
| 70° | 34.2 | 38.7 | 40.9 | 37.6 | 35.4 | 50.8 | 42.0 | 71.8 | 860.7 | 1839.5 | 2400.8 |
| 72.5° | 27.6 | 32.0 | 34.2 | 30.9 | 27.6 | 37.6 | 32.0 | 47.5 | 560.1 | 1567.7 | 2133.4 |
| 75° | 22.1 | 26.5 | 27.6 | 25.4 | 22.1 | 27.6 | 25.4 | 33.1 | 365.7 | 1297.1 | 1814.1 |
| 77.5° | 16.6 | 18.8 | 21.0 | 19.9 | 16.6 | 19.9 | 17.7 | 23.2 | 208.8 | 910.4 | 1272.8 |
| 80° | 13.3 | 14.4 | 14.4 | 14.4 | 13.3 | 12.2 | 12.2 | 15.5 | 93.9 | 448.6 | 664.0 |
| 82.5° | 11.0 | 12.2 | 12.2 | 11.0 | 9.9 | 8.8 | 7.7 | 8.8 | 27.6 | 201.1 | 306.0 |
| 85° | 9.9 | 11.0 | 8.8 | 7.7 | 6.6 | 5.5 | 3.3 | 3.3 | 7.7 | 32.0 | 59.7 |
| 87.5° | 7.7 | 6.6 | 5.5 | 4.4 | 2.2 | 1.1 | 1.1 | 0.0 | 1.1 | 1.1 | 1.1 |
| 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: P1364552
CATALOG NUMBER: GSS-SB1B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 | 622.0 |
| 2.5° | 704.9 | 715.9 | 723.7 | 730.3 | 728.1 | 722.6 | 711.5 | 703.8 | 702.0 | 701.6 |
| 5° | 797.7 | 815.4 | 830.8 | 828.6 | 830.8 | 814.3 | 797.7 | 777.8 | 769.8 | 767.9 |
| 7.5° | 875.0 | 897.1 | 915.9 | 913.7 | 907.1 | 888.3 | 860.7 | 830.8 | 816.7 | 813.2 |
| 10° | 917.0 | 942.4 | 957.9 | 952.4 | 941.3 | 917.0 | 889.4 | 854.0 | 838.1 | 834.1 |
| 12.5° | 924.7 | 941.3 | 938.0 | 935.8 | 933.6 | 921.4 | 900.4 | 868.4 | 852.5 | 848.5 |
| 15° | 904.9 | 898.2 | 879.4 | 875.0 | 891.6 | 907.1 | 902.6 | 876.1 | 861.1 | 857.3 |
| 17.5° | 871.7 | 837.5 | 803.2 | 798.8 | 826.4 | 869.5 | 903.7 | 888.3 | 874.1 | 870.6 |
| 20° | 835.2 | 771.2 | 733.6 | 725.9 | 760.1 | 824.2 | 891.6 | 900.4 | 890.7 | 888.3 |
| 22.5° | 792.2 | 717.0 | 677.3 | 672.8 | 698.2 | 773.4 | 873.9 | 913.7 | 909.3 | 908.2 |
| 25° | 754.6 | 669.5 | 632.0 | 625.3 | 658.5 | 731.4 | 856.2 | 935.8 | 933.1 | 932.5 |
| 27.5° | 723.7 | 635.3 | 595.5 | 591.1 | 623.1 | 696.0 | 834.1 | 954.6 | 963.4 | 965.6 |
| 30° | 699.4 | 609.9 | 570.1 | 564.6 | 599.9 | 671.7 | 818.7 | 981.1 | 997.9 | 1002.1 |
| 32.5° | 680.6 | 595.5 | 557.9 | 554.6 | 592.2 | 661.8 | 809.8 | 1008.7 | 1043.2 | 1051.8 |
| 35° | 673.9 | 599.9 | 574.5 | 582.2 | 611.0 | 671.7 | 816.5 | 1054.0 | 1101.7 | 1113.7 |
| 37.5° | 688.3 | 648.5 | 666.2 | 686.1 | 697.1 | 719.2 | 847.4 | 1126.9 | 1188.8 | 1204.3 |
| 40° | 734.7 | 778.9 | 861.8 | 900.4 | 896.0 | 845.2 | 918.1 | 1229.7 | 1318.1 | 1340.2 |
| 42.5° | 852.9 | 996.6 | 1172.2 | 1237.4 | 1199.8 | 1046.3 | 1030.8 | 1398.7 | 1499.5 | 1524.7 |
| 45° | 1028.6 | 1259.5 | 1547.9 | 1694.8 | 1565.5 | 1301.5 | 1208.7 | 1639.6 | 1736.8 | 1761.1 |
| 47.5° | 1204.3 | 1553.4 | 2011.9 | 2186.4 | 1932.3 | 1554.5 | 1441.8 | 1927.9 | 2015.4 | 2037.3 |
| 50° | 1383.2 | 1878.2 | 2474.8 | 2707.9 | 2298.0 | 1811.9 | 1689.3 | 2283.7 | 2347.3 | 2363.2 |
| 52.5° | 1567.7 | 2168.8 | 2985.2 | 3186.3 | 2680.3 | 2010.8 | 1972.1 | 2671.5 | 2709.5 | 2719.0 |
| 55° | 1773.2 | 2443.9 | 3496.8 | 3659.2 | 3028.3 | 2184.2 | 2303.6 | 3076.9 | 3067.2 | 3064.8 |
| 57.5° | 2047.2 | 2733.3 | 3908.9 | 4135.4 | 3344.3 | 2418.5 | 2746.6 | 3527.7 | 3337.7 | 3290.2 |
| 60° | 2525.6 | 3183.0 | 4421.5 | 4667.9 | 3767.5 | 2761.0 | 3072.5 | 3517.8 | 3178.4 | 3093.5 |
| 62.5° | 3080.3 | 3616.1 | 4885.5 | 5093.2 | 4212.7 | 3101.2 | 2812.9 | 2954.3 | 2618.4 | 2534.5 |
| 65° | 2675.9 | 3539.9 | 4899.9 | 5113.1 | 4229.3 | 2893.5 | 2079.3 | 2094.7 | 1811.9 | 1741.2 |
| 67.5° | 2277.0 | 3137.7 | 4462.4 | 4630.3 | 3773.0 | 2391.9 | 1378.8 | 1366.7 | 1189.0 | 1144.6 |
| 70° | 2027.4 | 2748.8 | 3845.9 | 3701.2 | 3172.0 | 2021.8 | 915.9 | 759.0 | 648.5 | 620.9 |
| 72.5° | 1821.9 | 2180.9 | 3116.7 | 2551.0 | 2631.7 | 1645.1 | 582.2 | 517.1 | 431.3 | 409.9 |
| 75° | 1649.5 | 1804.2 | 1944.5 | 1763.3 | 1869.4 | 1355.6 | 493.9 | 398.8 | 326.4 | 308.2 |
| 77.5° | 1312.5 | 1404.2 | 1151.2 | 1118.1 | 1309.2 | 964.5 | 245.3 | 167.9 | 146.7 | 141.4 |
| 80° | 781.1 | 664.0 | 653.0 | 744.7 | 871.7 | 500.5 | 150.3 | 92.8 | 84.0 | 81.8 |
| 82.5° | 472.9 | 239.7 | 260.7 | 329.2 | 464.0 | 227.6 | 89.5 | 39.8 | 35.4 | 34.2 |
| 85° | 79.5 | 65.2 | 100.5 | 96.1 | 90.6 | 48.6 | 24.3 | 11.0 | 10.2 | 9.9 |
| 87.5° | 2.2 | 3.3 | 4.4 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 6.4 | 6.6 |
| 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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

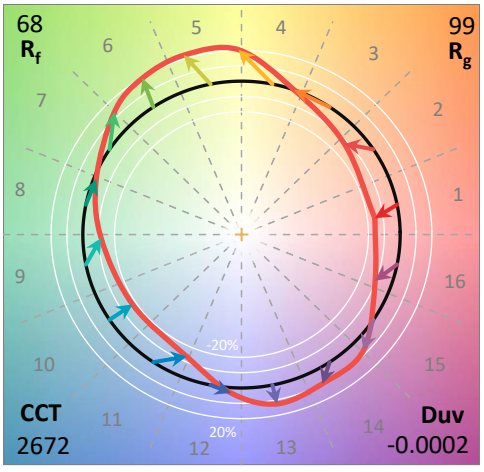
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-3 |
| 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-727-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2672 |
| CIE u': | 0.2638 |
| CIE v': | 0.5276 |
| Duv: | -0.0002 |
| CIE x: | 0.4619 |
| CIE y: | 0.4106 |
| CIE z: | 0.1275 |
| Peak Wavelength (nm): | 601 |
| Dominant Wavelength (nm): | 584 |
| Purity: | 61.88407 |
| Rf: | 67.9 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 71.1 |
| R1: | 68.3 |
| R2: | 79.8 |
| R3: | 91.2 |
| R4: | 69.4 |
| R5: | 66.5 |
| R6: | 72.6 |
| R7: | 77.0 |
| R8: | 44.1 |
| R9: | -27.8 |
| R10: | 54.4 |
| R11: | 65.8 |
| R12: | 45.6 |
| R13: | 69.8 |
| R14: | 94.5 |
| R15: | 60.1 |




## Test Conditions

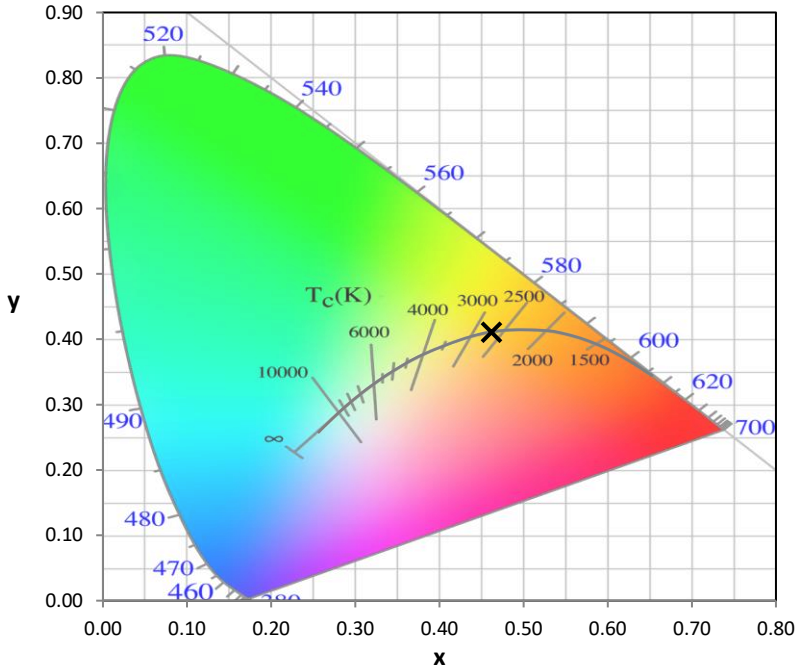
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-3

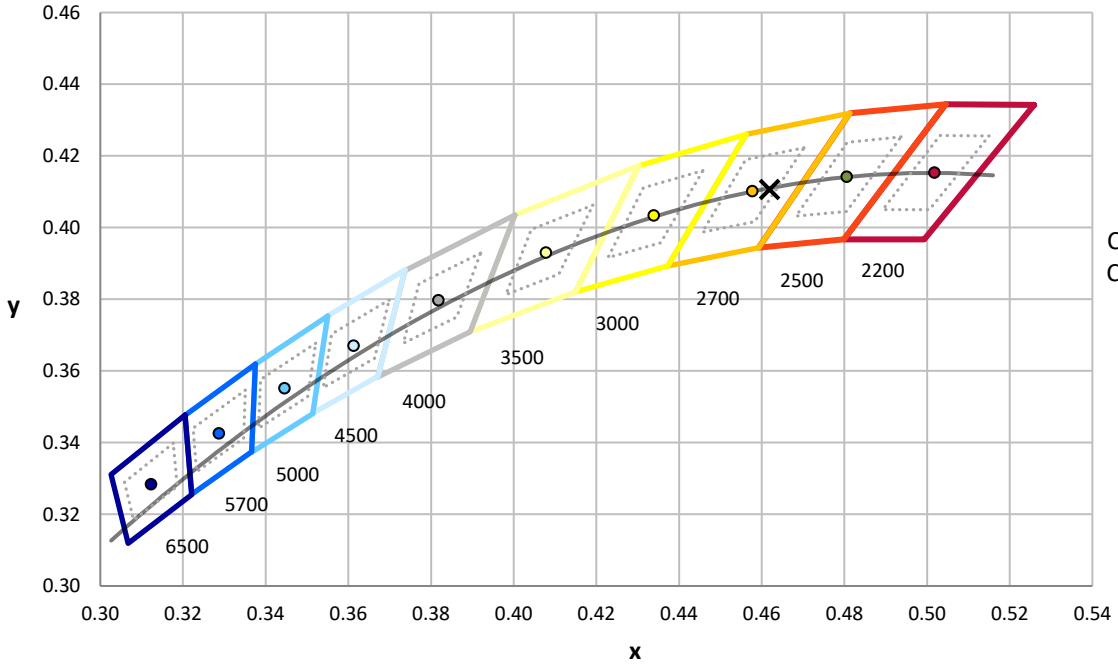
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-3

## CIE 1931 Chromaticity Diagram




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

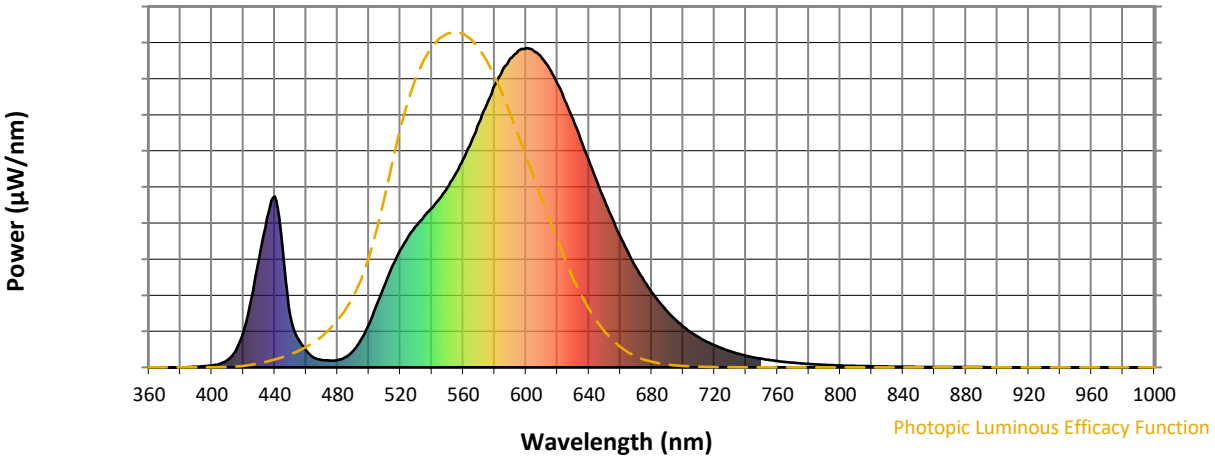



CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

## Photopic Flux vs. Wavelength

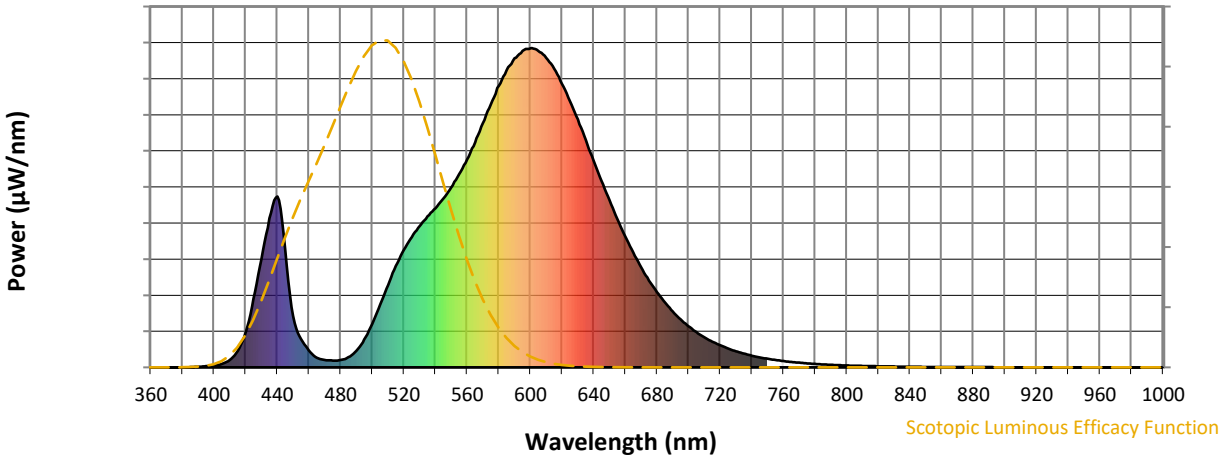



## Photopic Lumens: NR

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-3

## Scotopic Flux vs. Wavelength

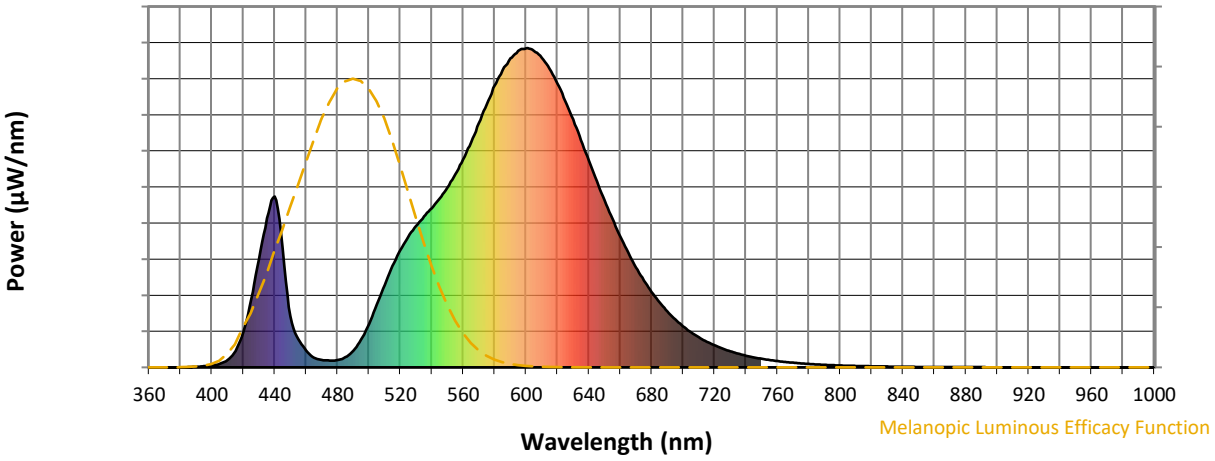



**Scotopic Lumens: NR** **S/P: 1.02**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-3

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.71**

| 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 | 52 | NR | 620 | 888 | NR | 750 | 27 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 87 | NR | 625 | 834 | NR | 755 | 23 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 135 | NR | 630 | 776 | NR | 760 | 20 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 196 | NR | 635 | 712 | NR | 765 | 17 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 258 | NR | 640 | 648 | NR | 770 | 15 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 317 | NR | 645 | 583 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 368 | NR | 650 | 523 | NR | 780 | 11 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 408 | NR | 655 | 465 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 443 | NR | 660 | 410 | NR | 790 | 8 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 473 | NR | 665 | 360 | NR | 795 | 7 | NR | 925 | 0 | NR |
| 410 | 23 | NR | 540 | 498 | NR | 670 | 313 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 51 | NR | 545 | 530 | NR | 675 | 272 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 111 | NR | 550 | 563 | NR | 680 | 236 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 214 | NR | 555 | 605 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 339 | NR | 560 | 651 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 467 | NR | 565 | 705 | NR | 695 | 150 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 535 | NR | 570 | 765 | NR | 700 | 128 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 372 | NR | 575 | 824 | NR | 705 | 110 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 160 | NR | 580 | 882 | NR | 710 | 94 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 89 | NR | 585 | 930 | NR | 715 | 80 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 53 | NR | 590 | 968 | NR | 720 | 69 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 31 | NR | 595 | 991 | NR | 725 | 59 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 999 | NR | 730 | 50 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 21 | NR | 605 | 992 | NR | 735 | 43 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 23 | NR | 610 | 969 | NR | 740 | 36 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 32 | NR | 615 | 935 | NR | 745 | 31 | NR | 875 | 1 | NR | | | |

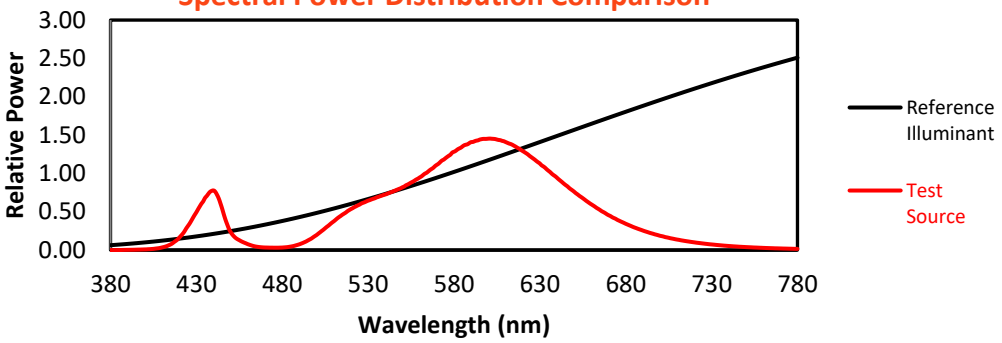
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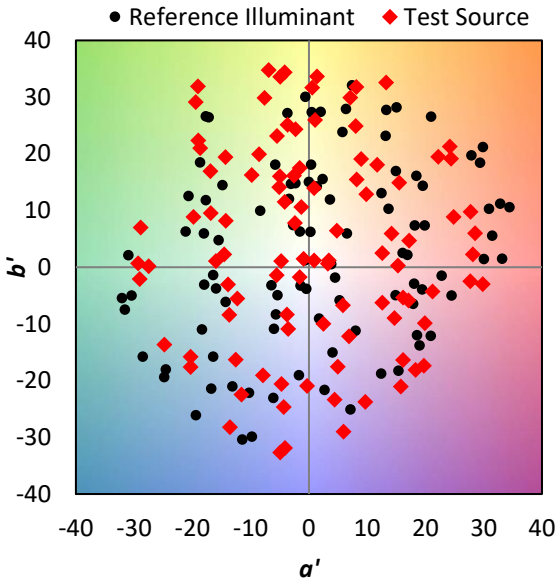
## Summary

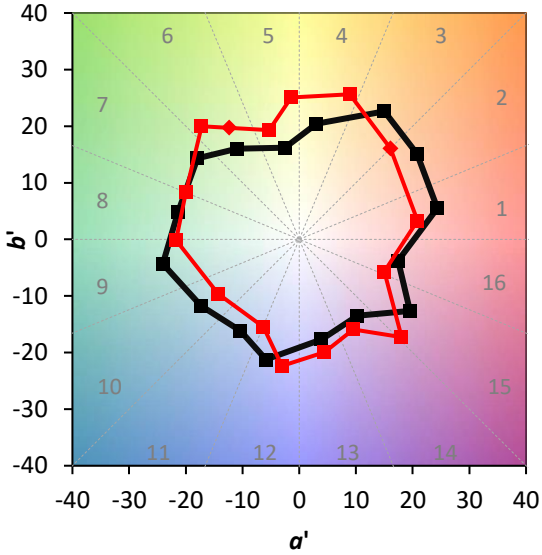
$R_f$ = 67.9
$R_g$ = 98.6
CIE $R_a$ = 71.1
$R_9$ = -27.8

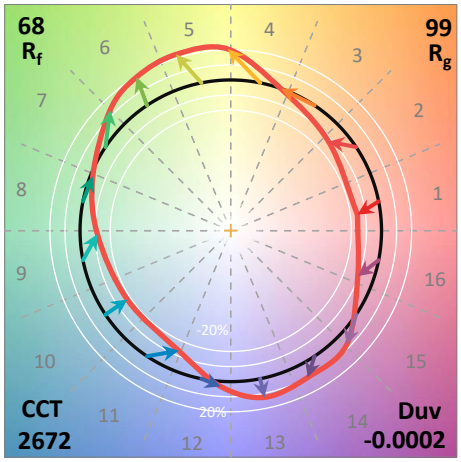
## Spectral Power Distribution Comparison

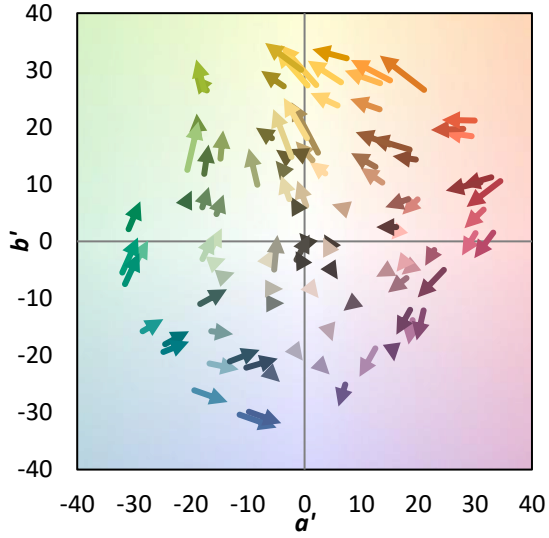



## Color Vector Graphics



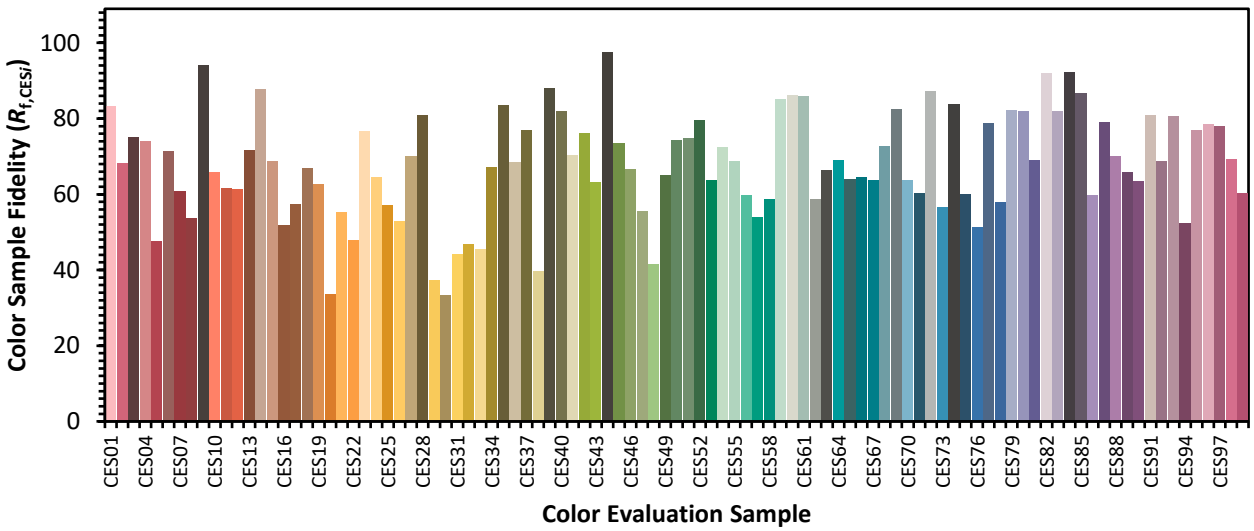



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**Individual Sample Fidelity Index ($R_{f,i}$)**

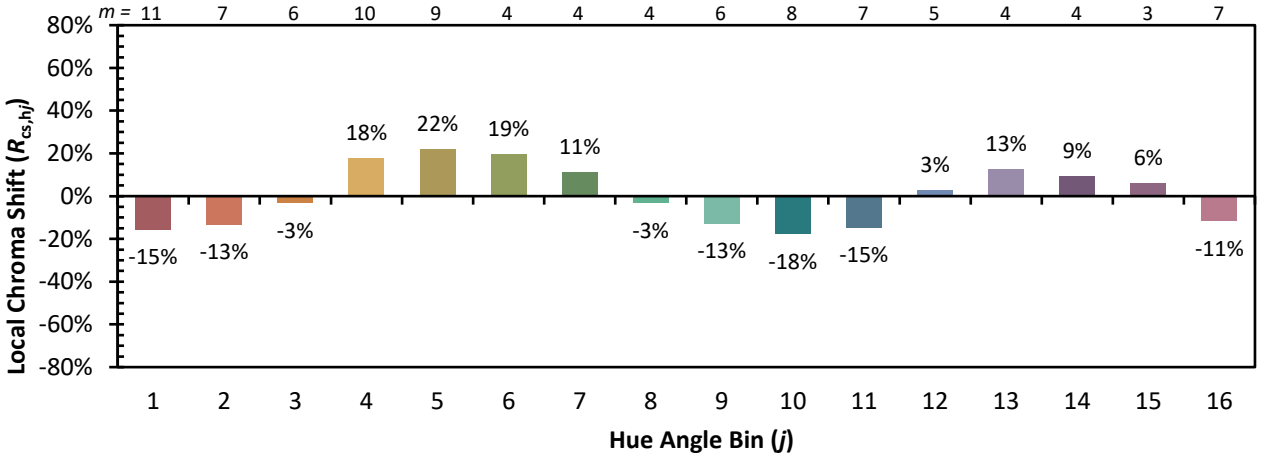
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 | |

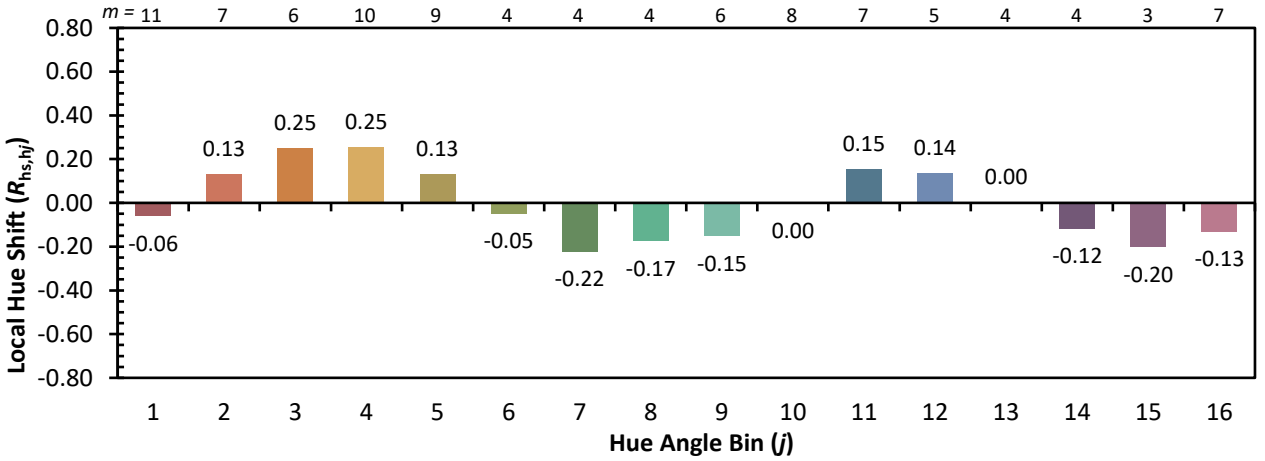


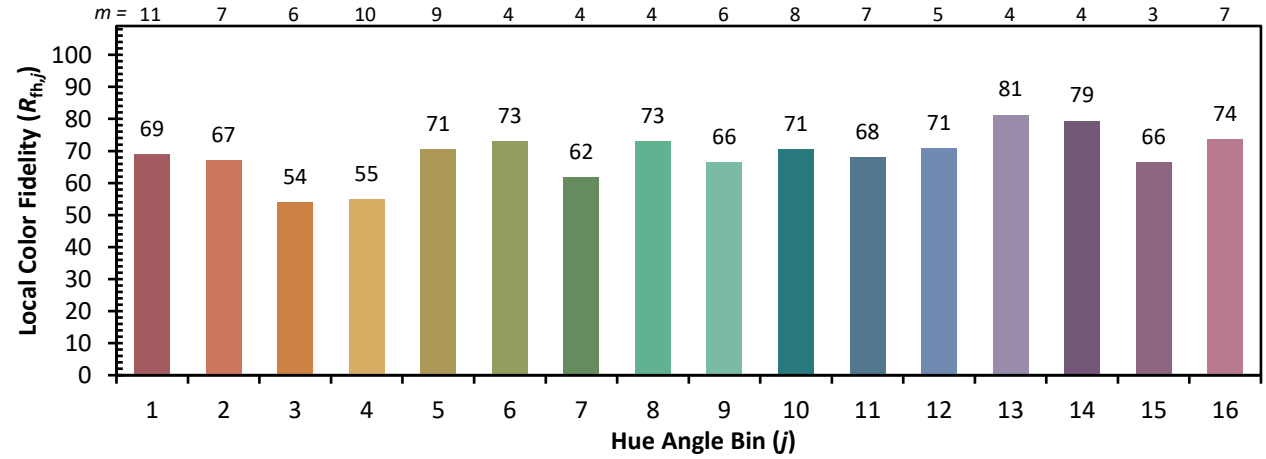
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## Color Rendition by Hue-Angle Bin



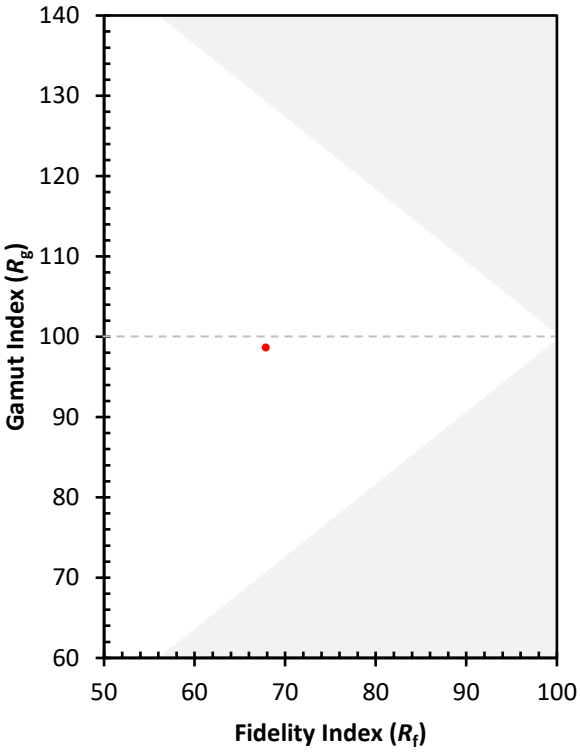



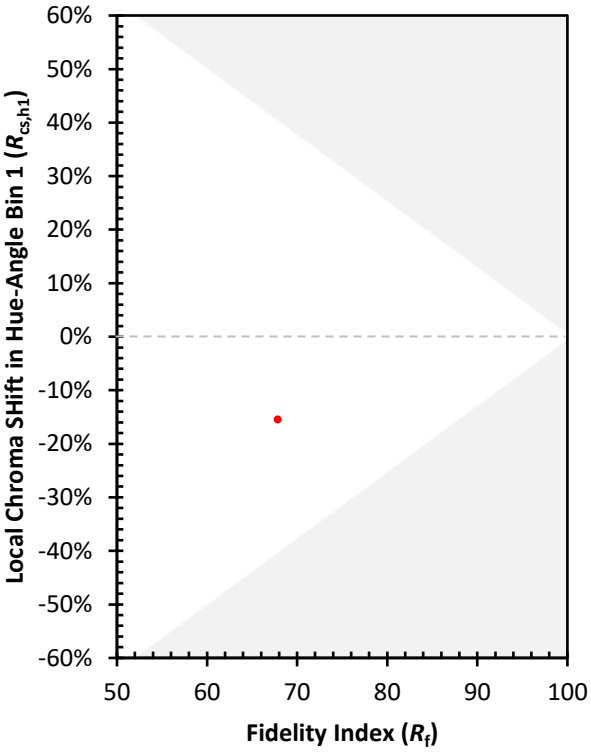



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## Measure Comparisons




(END OF REPORT)