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

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Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1704730

Luminaire Tested: GSS-SB3A-AMB-U-SLL-HSS

Issue Date: 10/28/2026

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1704730 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 10/28/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB3A-AMB-U-SLL-HSS |
| Description: | GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 3SQUARE 101W 1590K FIXTURE w/ LEFT 90 DEG SPILL CONTROL DISTRIBUTION AND HOUSE SIDE SHIELD |
| Light Source: | (78) 1590K CCT, 0 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4710.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 46.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 101 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | NR |
| Total Harmonic Distortion (THDi): | NR |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

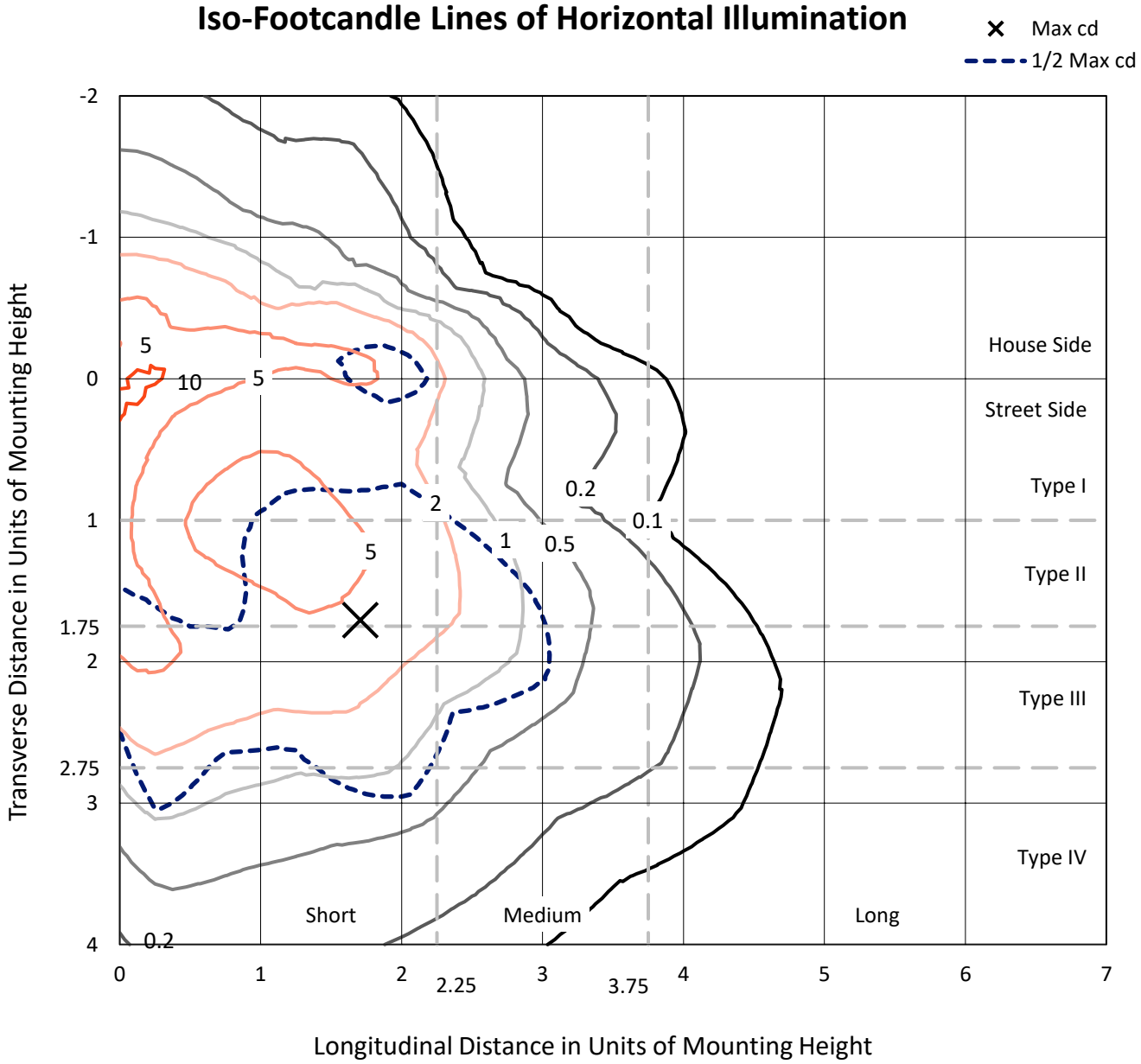


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REPORT NUMBER: P1704730
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## Iso-Footcandle Lines of Horizontal Illumination



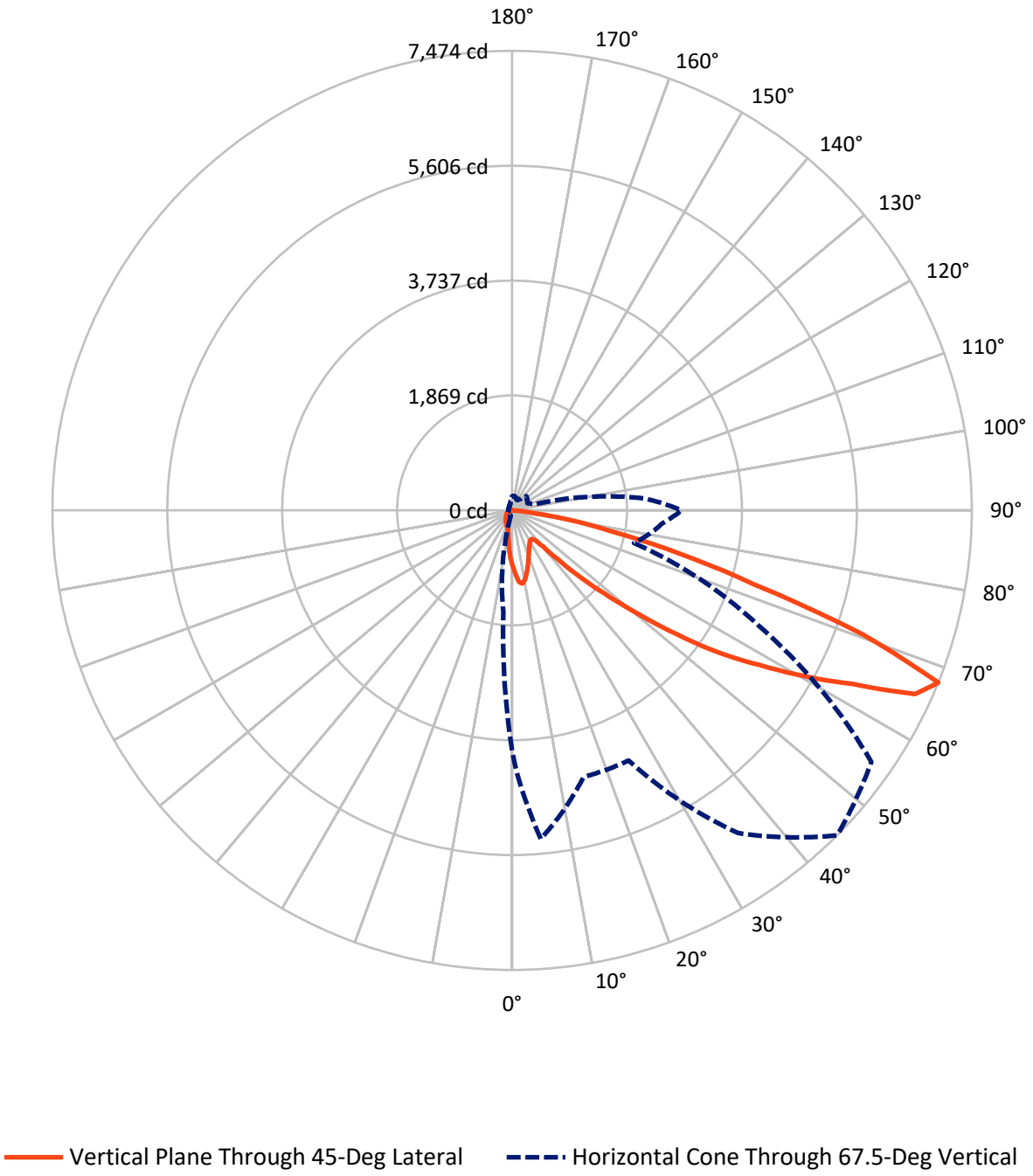

Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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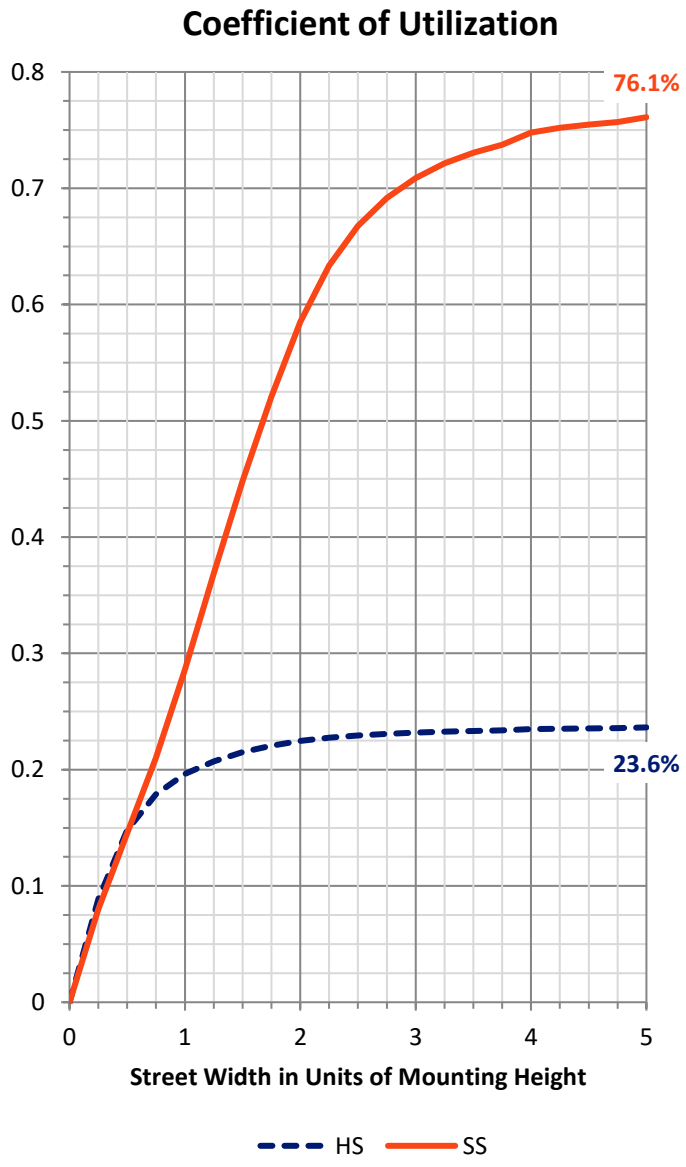
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1124.1 | 0.0 | 1124.1 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| **Street Side** | Lumens | 3586.8 | 0.0 | 3586.8 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| **Total** | Lumens | 4710.8 | 0.0 | 4710.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 81.2 | 1.7 |
| 10°-20° | 204.8 | 4.3 |
| 20°-30° | 290.2 | 6.2 |
| 30°-40° | 354.8 | 7.5 |
| 40°-50° | 534.1 | 11.3 |
| 50°-60° | 1010.1 | 21.4 |
| 60°-70° | 1463.5 | 31.1 |
| 70°-80° | 709.6 | 15.1 |
| 80°-90° | 62.4 | 1.3 |
| 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° | 4710.8 | 100.0 |
| 0°-180° | 4710.8 | 100.0 |



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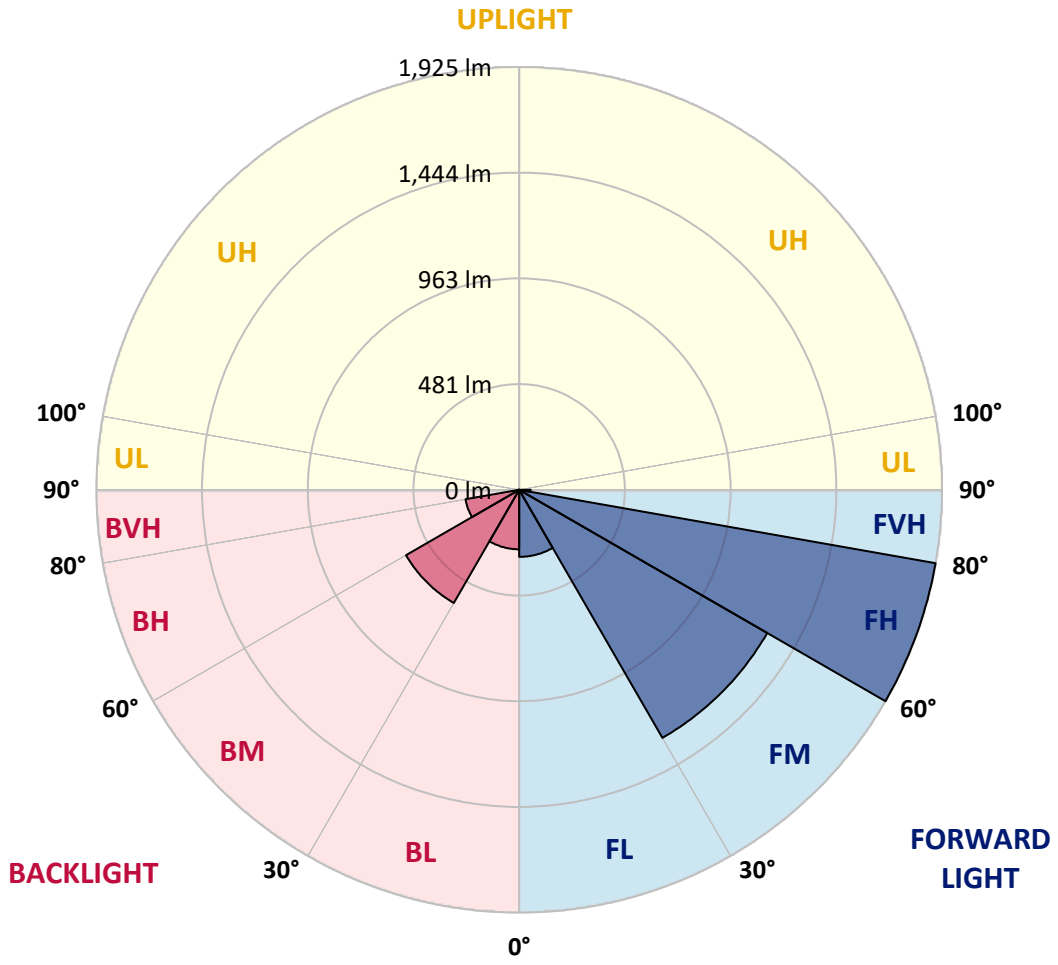
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 305.3 | 6.5 | | | |
| FM | (30°-60°) | 1304.2 | 27.7 | | | |
| FH | (60°-80°) | 1925.1 | 40.9 | | | G2/5000 |
| FVH | (80°-90°) | 52.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 270.9 | 5.8 | B1/500 | | |
| BM | (30°-60°) | 594.9 | 12.6 | B1/1000 | | |
| BH | (60°-80°) | 248.0 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.3 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 |
| 2.5° | 978.4 | 978.4 | 993.4 | 999.3 | 1011.3 | 1029.3 | 1029.3 | 1017.3 | 1029.3 | 1017.3 | 1017.3 |
| 5° | 1068.2 | 1062.2 | 1089.1 | 1122.0 | 1131.0 | 1149.0 | 1166.9 | 1169.9 | 1160.9 | 1149.0 | 1134.0 |
| 7.5° | 1107.1 | 1104.1 | 1134.0 | 1169.9 | 1187.8 | 1199.8 | 1202.8 | 1205.8 | 1208.8 | 1199.8 | 1193.8 |
| 10° | 1131.0 | 1134.0 | 1154.9 | 1178.9 | 1169.9 | 1154.9 | 1149.0 | 1154.9 | 1166.9 | 1178.9 | 1199.8 |
| 12.5° | 1140.0 | 1143.0 | 1160.9 | 1146.0 | 1098.1 | 1071.2 | 1047.2 | 1059.2 | 1077.1 | 1113.0 | 1172.9 |
| 15° | 1143.0 | 1134.0 | 1143.0 | 1083.1 | 1014.3 | 960.5 | 951.5 | 951.5 | 981.4 | 1026.3 | 1122.0 |
| 17.5° | 1137.0 | 1125.0 | 1116.0 | 1017.3 | 930.5 | 873.7 | 852.7 | 867.7 | 894.6 | 963.4 | 1077.1 |
| 20° | 1128.0 | 1116.0 | 1092.1 | 960.5 | 855.7 | 807.9 | 772.0 | 780.9 | 813.8 | 894.6 | 1029.3 |
| 22.5° | 1122.0 | 1104.1 | 1059.2 | 900.6 | 801.9 | 739.0 | 703.1 | 709.1 | 757.0 | 852.7 | 990.4 |
| 25° | 1116.0 | 1101.1 | 1032.3 | 861.7 | 757.0 | 685.2 | 652.3 | 655.3 | 709.1 | 810.8 | 972.4 |
| 27.5° | 1119.0 | 1095.1 | 1017.3 | 834.8 | 721.1 | 646.3 | 604.4 | 613.4 | 670.2 | 786.9 | 951.5 |
| 30° | 1140.0 | 1101.1 | 1011.3 | 819.8 | 706.1 | 628.3 | 577.5 | 586.4 | 643.3 | 777.9 | 942.5 |
| 32.5° | 1154.9 | 1122.0 | 1014.3 | 825.8 | 700.1 | 613.4 | 562.5 | 571.5 | 637.3 | 769.0 | 939.5 |
| 35° | 1199.8 | 1157.9 | 1029.3 | 837.8 | 721.1 | 628.3 | 571.5 | 577.5 | 649.3 | 769.0 | 948.5 |
| 37.5° | 1250.7 | 1211.8 | 1074.1 | 867.7 | 757.0 | 682.2 | 625.3 | 613.4 | 676.2 | 783.9 | 969.4 |
| 40° | 1322.5 | 1274.6 | 1137.0 | 927.5 | 828.8 | 804.9 | 766.0 | 745.0 | 745.0 | 828.8 | 1011.3 |
| 42.5° | 1436.2 | 1379.3 | 1223.8 | 1032.3 | 999.3 | 1071.2 | 1083.1 | 984.4 | 909.6 | 900.6 | 1062.2 |
| 45° | 1606.7 | 1520.0 | 1352.4 | 1181.9 | 1262.6 | 1469.1 | 1528.9 | 1349.4 | 1137.0 | 1011.3 | 1149.0 |
| 47.5° | 1813.2 | 1744.4 | 1517.0 | 1379.3 | 1582.8 | 1944.8 | 2019.6 | 1846.1 | 1487.1 | 1205.8 | 1253.7 |
| 50° | 2211.1 | 2064.5 | 1753.3 | 1615.7 | 1917.9 | 2468.5 | 2612.1 | 2393.6 | 1849.1 | 1424.2 | 1379.3 |
| 52.5° | 2728.8 | 2612.1 | 2175.2 | 1846.1 | 2232.1 | 3016.0 | 3339.1 | 3036.9 | 2238.1 | 1639.6 | 1540.9 |
| 55° | 3396.0 | 3246.4 | 2800.6 | 2112.4 | 2507.3 | 3464.8 | 4096.1 | 3779.0 | 2603.1 | 1831.1 | 1900.0 |
| 57.5° | 4347.5 | 4293.6 | 3808.9 | 2453.5 | 2683.9 | 3823.9 | 4745.4 | 4467.1 | 2953.2 | 1989.7 | 2537.3 |
| 60° | 5505.4 | 5670.0 | 5227.1 | 2956.2 | 2863.4 | 4179.9 | 5487.4 | 5179.3 | 3258.4 | 2136.3 | 3231.4 |
| 62.5° | 5493.4 | 6011.1 | 6986.5 | 4550.9 | 3422.9 | 4805.2 | 6217.5 | 5978.1 | 3722.1 | 2450.5 | 3716.1 |
| 65° | 4646.7 | 5095.5 | 6142.7 | 5903.3 | 4748.4 | 6178.6 | 7201.9 | 6980.5 | 4547.9 | 2728.8 | 3243.4 |
| 67.5° | 3895.7 | 4266.7 | 5364.8 | 4488.1 | 4488.1 | 6406.0 | 7474.2 | 7130.1 | 4407.3 | 2052.6 | 2450.5 |
| 70° | 3075.8 | 3452.8 | 4431.2 | 3662.3 | 3898.7 | 5819.6 | 6055.9 | 6424.0 | 4006.4 | 1418.2 | 1654.6 |
| 72.5° | 2253.0 | 2582.1 | 3530.6 | 2986.1 | 3168.6 | 5152.3 | 4114.1 | 5454.5 | 3387.0 | 876.7 | 1157.9 |
| 75° | 1520.0 | 1714.5 | 2525.3 | 2396.6 | 2564.2 | 3285.3 | 2827.5 | 3593.5 | 2821.5 | 712.1 | 960.5 |
| 77.5° | 766.0 | 921.6 | 1403.3 | 1552.9 | 1783.3 | 1735.4 | 1678.5 | 2453.5 | 2091.5 | 383.0 | 403.9 |
| 80° | 149.6 | 185.5 | 323.1 | 577.5 | 724.1 | 945.5 | 981.4 | 1370.4 | 1128.0 | 212.4 | 239.4 |
| 82.5° | 59.8 | 65.8 | 80.8 | 197.5 | 203.5 | 400.9 | 347.1 | 610.4 | 463.8 | 104.7 | 77.8 |
| 85° | 20.9 | 23.9 | 29.9 | 38.9 | 107.7 | 170.5 | 113.7 | 95.7 | 110.7 | 29.9 | 18.0 |
| 87.5° | 0.0 | 0.0 | 3.0 | 3.0 | 3.0 | 6.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 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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REPORT NUMBER: P1704730
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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 |
| 2.5° | 999.3 | 990.4 | 975.4 | 951.5 | 930.5 | 900.6 | 885.7 | 855.7 | 840.8 | 819.8 | 810.8 |
| 5° | 1122.0 | 1098.1 | 1053.2 | 1005.3 | 948.5 | 897.6 | 843.8 | 795.9 | 751.0 | 709.1 | 685.2 |
| 7.5° | 1178.9 | 1160.9 | 1113.0 | 1041.2 | 969.4 | 897.6 | 819.8 | 748.0 | 676.2 | 616.4 | 586.4 |
| 10° | 1199.8 | 1184.9 | 1134.0 | 1059.2 | 984.4 | 903.6 | 819.8 | 730.1 | 649.3 | 565.5 | 526.6 |
| 12.5° | 1181.9 | 1175.9 | 1143.0 | 1068.2 | 990.4 | 927.5 | 855.7 | 772.0 | 670.2 | 562.5 | 505.7 |
| 15° | 1154.9 | 1172.9 | 1160.9 | 1077.1 | 1002.3 | 942.5 | 897.6 | 849.7 | 760.0 | 622.3 | 547.5 |
| 17.5° | 1131.0 | 1172.9 | 1172.9 | 1092.1 | 1014.3 | 939.5 | 915.6 | 921.6 | 918.6 | 748.0 | 634.3 |
| 20° | 1107.1 | 1166.9 | 1196.8 | 1104.1 | 1005.3 | 915.6 | 909.6 | 981.4 | 1032.3 | 900.6 | 748.0 |
| 22.5° | 1092.1 | 1172.9 | 1214.8 | 1110.1 | 969.4 | 846.8 | 867.7 | 972.4 | 1059.2 | 993.4 | 834.8 |
| 25° | 1068.2 | 1184.9 | 1232.7 | 1110.1 | 918.6 | 766.0 | 801.9 | 906.6 | 984.4 | 981.4 | 864.7 |
| 27.5° | 1062.2 | 1193.8 | 1274.6 | 1107.1 | 840.8 | 694.2 | 751.0 | 816.8 | 882.7 | 882.7 | 798.9 |
| 30° | 1068.2 | 1217.8 | 1316.5 | 1110.1 | 772.0 | 664.2 | 712.1 | 760.0 | 792.9 | 769.0 | 700.1 |
| 32.5° | 1077.1 | 1256.7 | 1415.2 | 1128.0 | 715.1 | 646.3 | 685.2 | 703.1 | 715.1 | 682.2 | 625.3 |
| 35° | 1098.1 | 1313.5 | 1478.1 | 1175.9 | 679.2 | 631.3 | 655.3 | 652.3 | 649.3 | 625.3 | 574.5 |
| 37.5° | 1131.0 | 1391.3 | 1561.9 | 1184.9 | 685.2 | 610.4 | 613.4 | 598.4 | 580.5 | 565.5 | 532.6 |
| 40° | 1184.9 | 1457.1 | 1639.6 | 1154.9 | 709.1 | 595.4 | 562.5 | 535.6 | 514.6 | 511.6 | 490.7 |
| 42.5° | 1256.7 | 1570.8 | 1720.4 | 1050.2 | 700.1 | 583.5 | 511.6 | 478.7 | 454.8 | 454.8 | 448.8 |
| 45° | 1355.4 | 1723.4 | 1783.3 | 936.5 | 652.3 | 568.5 | 466.8 | 424.9 | 406.9 | 403.9 | 412.9 |
| 47.5° | 1451.1 | 1867.0 | 1879.0 | 804.9 | 574.5 | 529.6 | 421.9 | 383.0 | 365.0 | 377.0 | 386.0 |
| 50° | 1582.8 | 2070.5 | 1926.9 | 685.2 | 508.7 | 463.8 | 377.0 | 338.1 | 338.1 | 356.1 | 362.0 |
| 52.5° | 1807.2 | 2459.5 | 2004.7 | 589.4 | 478.7 | 389.0 | 323.1 | 311.2 | 323.1 | 347.1 | 350.1 |
| 55° | 2396.6 | 3129.7 | 2124.4 | 541.6 | 451.8 | 326.1 | 287.2 | 296.2 | 317.2 | 344.1 | 347.1 |
| 57.5° | 3408.0 | 3820.9 | 2091.5 | 511.6 | 427.9 | 314.2 | 260.3 | 287.2 | 311.2 | 344.1 | 347.1 |
| 60° | 4329.5 | 4356.4 | 1786.3 | 484.7 | 421.9 | 329.1 | 242.4 | 272.3 | 302.2 | 335.1 | 338.1 |
| 62.5° | 4703.5 | 4401.3 | 1223.8 | 430.9 | 400.9 | 347.1 | 233.4 | 245.3 | 275.3 | 302.2 | 305.2 |
| 65° | 3853.8 | 3345.1 | 697.2 | 356.1 | 356.1 | 350.1 | 230.4 | 212.4 | 248.3 | 269.3 | 266.3 |
| 67.5° | *2755.7* | *2181.2* | *371.0* | *275.3* | *299.2* | *326.1* | *224.4* | *185.5* | *221.4* | *236.4* | *224.4* |
| 70° | 1606.7 | 1002.3 | 224.4 | 188.5 | 239.4 | 269.3 | 203.5 | 167.6 | 194.5 | 209.4 | 197.5 |
| 72.5° | 993.4 | 484.7 | 137.6 | 134.6 | 188.5 | 194.5 | 167.6 | 149.6 | 170.5 | 185.5 | 173.5 |
| 75° | 736.0 | 251.3 | 83.8 | 104.7 | 113.7 | 152.6 | 131.7 | 128.7 | 143.6 | 161.6 | 152.6 |
| 77.5° | 293.2 | 74.8 | 44.9 | 77.8 | 74.8 | 119.7 | 89.8 | 101.7 | 110.7 | 128.7 | 116.7 |
| 80° | 164.6 | 38.9 | 29.9 | 47.9 | 47.9 | 95.7 | 56.8 | 56.8 | 77.8 | 89.8 | 80.8 |
| 82.5° | 50.9 | 20.9 | 20.9 | 26.9 | 26.9 | 50.9 | 38.9 | 38.9 | 53.9 | 59.8 | 47.9 |
| 85° | 15.0 | 15.0 | 15.0 | 18.0 | 15.0 | 23.9 | 26.9 | 20.9 | 26.9 | 26.9 | 23.9 |
| 87.5° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 12.0 | 12.0 | 15.0 | 12.0 | 12.0 |
| 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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CATALOG NUMBER: GSS-SB3A-AMB-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 |
| 2.5° | 804.9 | 789.9 | 780.9 | 772.0 | 769.0 | 766.0 | 760.0 | 774.9 | 783.9 | 792.9 | 792.9 |
| 5° | 670.2 | 640.3 | 622.3 | 619.4 | 607.4 | 601.4 | 613.4 | 625.3 | 649.3 | 661.2 | 676.2 |
| 7.5° | 559.5 | 523.6 | 493.7 | 472.7 | 469.8 | 472.7 | 472.7 | 484.7 | 511.6 | 523.6 | 538.6 |
| 10° | 487.7 | 430.9 | 395.0 | 383.0 | 374.0 | 371.0 | 371.0 | 374.0 | 389.0 | 395.0 | 412.9 |
| 12.5° | 448.8 | 374.0 | 344.1 | 329.1 | 320.2 | 311.2 | 299.2 | 293.2 | 299.2 | 302.2 | 314.2 |
| 15° | 475.7 | 350.1 | 314.2 | 305.2 | 293.2 | 278.3 | 266.3 | 260.3 | 260.3 | 260.3 | 260.3 |
| 17.5° | 526.6 | 350.1 | 305.2 | 290.2 | 272.3 | 260.3 | 251.3 | 245.3 | 242.4 | 242.4 | 239.4 |
| 20° | 589.4 | 362.0 | 299.2 | 275.3 | 254.3 | 245.3 | 236.4 | 230.4 | 230.4 | 227.4 | 227.4 |
| 22.5° | 655.3 | 365.0 | 296.2 | 257.3 | 242.4 | 230.4 | 221.4 | 218.4 | 215.4 | 215.4 | 215.4 |
| 25° | 676.2 | 365.0 | 293.2 | 239.4 | 224.4 | 218.4 | 209.4 | 206.5 | 206.5 | 206.5 | 206.5 |
| 27.5° | 637.3 | 359.0 | 287.2 | 224.4 | 212.4 | 203.5 | 200.5 | 194.5 | 194.5 | 194.5 | 197.5 |
| 30° | 577.5 | 350.1 | 272.3 | 218.4 | 200.5 | 191.5 | 188.5 | 185.5 | 182.5 | 185.5 | 185.5 |
| 32.5° | 529.6 | 347.1 | 254.3 | 209.4 | 188.5 | 182.5 | 176.5 | 173.5 | 173.5 | 176.5 | 176.5 |
| 35° | 502.7 | 344.1 | 239.4 | 200.5 | 176.5 | 170.5 | 167.6 | 164.6 | 161.6 | 164.6 | 167.6 |
| 37.5° | 484.7 | 344.1 | 227.4 | 191.5 | 164.6 | 158.6 | 158.6 | 155.6 | 155.6 | 155.6 | 158.6 |
| 40° | 460.8 | 341.1 | 218.4 | 182.5 | 155.6 | 149.6 | 146.6 | 143.6 | 143.6 | 146.6 | 149.6 |
| 42.5° | 436.8 | 335.1 | 209.4 | 170.5 | 146.6 | 134.6 | 134.6 | 131.7 | 134.6 | 137.6 | 140.6 |
| 45° | 406.9 | 320.2 | 197.5 | 161.6 | 134.6 | 125.7 | 122.7 | 122.7 | 125.7 | 128.7 | 131.7 |
| 47.5° | 383.0 | 305.2 | 194.5 | 149.6 | 125.7 | 116.7 | 113.7 | 110.7 | 116.7 | 119.7 | 122.7 |
| 50° | 359.0 | 299.2 | 200.5 | 143.6 | 119.7 | 107.7 | 104.7 | 104.7 | 110.7 | 113.7 | 116.7 |
| 52.5° | 353.1 | 299.2 | 206.5 | 137.6 | 110.7 | 101.7 | 98.7 | 101.7 | 104.7 | 110.7 | 113.7 |
| 55° | 350.1 | 287.2 | 209.4 | 125.7 | 107.7 | 95.7 | 95.7 | 98.7 | 101.7 | 104.7 | 107.7 |
| 57.5° | 347.1 | 263.3 | 191.5 | 116.7 | 101.7 | 92.8 | 92.8 | 95.7 | 98.7 | 101.7 | 101.7 |
| 60° | 329.1 | 227.4 | 164.6 | 104.7 | 95.7 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 92.8 |
| 62.5° | 284.2 | 191.5 | 140.6 | 92.8 | 86.8 | 83.8 | 83.8 | 80.8 | 74.8 | 77.8 | 80.8 |
| 65° | 227.4 | 146.6 | 119.7 | 80.8 | 77.8 | 77.8 | 74.8 | 65.8 | 59.8 | 59.8 | 62.8 |
| 67.5° | *173.5* | *107.7* | *95.7* | *71.8* | *68.8* | *65.8* | *65.8* | *59.8* | *50.9* | *53.9* | *56.8* |
| 70° | 134.6 | 89.8 | 74.8 | 62.8 | 56.8 | 56.8 | 59.8 | 53.9 | 44.9 | 47.9 | 50.9 |
| 72.5° | 107.7 | 74.8 | 62.8 | 47.9 | 41.9 | 47.9 | 50.9 | 44.9 | 38.9 | 38.9 | 41.9 |
| 75° | 86.8 | 56.8 | 47.9 | 35.9 | 32.9 | 38.9 | 38.9 | 35.9 | 32.9 | 32.9 | 35.9 |
| 77.5° | 62.8 | 41.9 | 32.9 | 26.9 | 23.9 | 29.9 | 29.9 | 26.9 | 23.9 | 26.9 | 26.9 |
| 80° | 41.9 | 26.9 | 20.9 | 20.9 | 18.0 | 20.9 | 18.0 | 18.0 | 18.0 | 20.9 | 20.9 |
| 82.5° | 29.9 | 18.0 | 15.0 | 15.0 | 12.0 | 12.0 | 12.0 | 15.0 | 18.0 | 18.0 | 18.0 |
| 85° | 15.0 | 12.0 | 12.0 | 9.0 | 9.0 | 9.0 | 12.0 | 12.0 | 15.0 | 15.0 | 15.0 |
| 87.5° | 12.0 | 9.0 | 9.0 | 6.0 | 6.0 | 6.0 | 9.0 | 12.0 | 12.0 | 12.0 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1704730
CATALOG NUMBER: GSS-SB3A-AMB-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 | 897.6 |
| 2.5° | 816.8 | 843.8 | 858.7 | 879.7 | 909.6 | 924.5 | 951.5 | 963.4 | 966.4 | 978.4 |
| 5° | 709.1 | 760.0 | 801.9 | 849.7 | 903.6 | 948.5 | 996.4 | 1038.2 | 1053.2 | 1068.2 |
| 7.5° | 592.4 | 640.3 | 712.1 | 786.9 | 870.7 | 942.5 | 1017.3 | 1071.2 | 1092.1 | 1107.1 |
| 10° | 454.8 | 523.6 | 610.4 | 703.1 | 813.8 | 912.6 | 1020.3 | 1095.1 | 1116.0 | 1131.0 |
| 12.5° | 347.1 | 403.9 | 508.7 | 613.4 | 745.0 | 873.7 | 1011.3 | 1104.1 | 1137.0 | 1140.0 |
| 15° | 275.3 | 308.2 | 397.9 | 535.6 | 688.2 | 840.8 | 1002.3 | 1110.1 | 1131.0 | 1143.0 |
| 17.5° | 239.4 | 245.3 | 293.2 | 433.8 | 619.4 | 798.9 | 990.4 | 1113.0 | 1131.0 | 1137.0 |
| 20° | 227.4 | 224.4 | 230.4 | 305.2 | 535.6 | 763.0 | 975.4 | 1119.0 | 1122.0 | 1128.0 |
| 22.5° | 215.4 | 212.4 | 212.4 | 227.4 | 412.9 | 709.1 | 969.4 | 1125.0 | 1122.0 | 1122.0 |
| 25° | 206.5 | 203.5 | 200.5 | 203.5 | 278.3 | 619.4 | 960.5 | 1137.0 | 1122.0 | 1116.0 |
| 27.5° | 197.5 | 194.5 | 191.5 | 191.5 | 206.5 | 514.6 | 936.5 | 1157.9 | 1128.0 | 1119.0 |
| 30° | 188.5 | 185.5 | 185.5 | 182.5 | 188.5 | 412.9 | 897.6 | 1184.9 | 1146.0 | 1140.0 |
| 32.5° | 179.5 | 179.5 | 176.5 | 176.5 | 176.5 | 311.2 | 867.7 | 1223.8 | 1178.9 | 1154.9 |
| 35° | 170.5 | 170.5 | 167.6 | 167.6 | 170.5 | 230.4 | 837.8 | 1262.6 | 1217.8 | 1199.8 |
| 37.5° | 161.6 | 161.6 | 158.6 | 158.6 | 161.6 | 218.4 | 813.8 | 1313.5 | 1271.6 | 1250.7 |
| 40° | 155.6 | 152.6 | 152.6 | 149.6 | 155.6 | 218.4 | 789.9 | 1385.3 | 1352.4 | 1322.5 |
| 42.5° | 143.6 | 143.6 | 140.6 | 140.6 | 146.6 | 203.5 | 760.0 | 1508.0 | 1460.1 | 1436.2 |
| 45° | 134.6 | 134.6 | 131.7 | 131.7 | 143.6 | 191.5 | 816.8 | 1699.5 | 1645.6 | 1606.7 |
| 47.5° | 128.7 | 125.7 | 122.7 | 122.7 | 137.6 | 179.5 | 1047.2 | 2034.6 | 1903.0 | 1813.2 |
| 50° | 119.7 | 119.7 | 116.7 | 113.7 | 131.7 | 185.5 | 1358.4 | 2423.6 | 2294.9 | 2211.1 |
| 52.5° | 113.7 | 113.7 | 110.7 | 104.7 | 119.7 | 194.5 | 1585.8 | 2836.5 | 2761.7 | 2728.8 |
| 55° | 110.7 | 110.7 | 101.7 | 98.7 | 110.7 | 164.6 | 1597.8 | 3300.2 | 3446.9 | 3396.0 |
| 57.5° | 104.7 | 104.7 | 95.7 | 92.8 | 98.7 | 143.6 | 1328.5 | 3680.2 | 4347.5 | 4347.5 |
| 60° | 95.7 | 95.7 | 89.8 | 83.8 | 92.8 | 131.7 | 843.8 | 3776.0 | 5182.2 | 5505.4 |
| 62.5° | 86.8 | 89.8 | 83.8 | 77.8 | 77.8 | 113.7 | 412.9 | 3333.2 | 5050.6 | 5493.4 |
| 65° | 74.8 | 77.8 | 77.8 | 68.8 | 71.8 | 101.7 | 185.5 | 2408.6 | 4147.0 | 4646.7 |
| 67.5° | *65.8* | *68.8* | *65.8* | *59.8* | *68.8* | *74.8* | *95.7* | *1645.6* | *3467.8* | *3895.7* |
| 70° | 59.8 | 62.8 | 56.8 | 50.9 | 62.8 | 53.9 | 71.8 | 933.5 | 2671.9 | 3075.8 |
| 72.5° | 50.9 | 53.9 | 47.9 | 38.9 | 56.8 | 41.9 | 53.9 | 356.1 | 1944.8 | 2253.0 |
| 75° | 41.9 | 44.9 | 38.9 | 32.9 | 38.9 | 32.9 | 41.9 | 128.7 | 1235.7 | 1520.0 |
| 77.5° | 29.9 | 35.9 | 32.9 | 26.9 | 29.9 | 23.9 | 29.9 | 62.8 | 655.3 | 766.0 |
| 80° | 23.9 | 23.9 | 23.9 | 20.9 | 18.0 | 18.0 | 20.9 | 38.9 | 104.7 | 149.6 |
| 82.5° | 20.9 | 18.0 | 18.0 | 15.0 | 15.0 | 12.0 | 12.0 | 18.0 | 53.9 | 59.8 |
| 85° | 18.0 | 15.0 | 15.0 | 12.0 | 9.0 | 6.0 | 6.0 | 6.0 | 18.0 | 20.9 |
| 87.5° | 15.0 | 12.0 | 9.0 | 6.0 | 3.0 | 3.0 | 0.0 | 3.0 | 0.0 | 0.0 |
| 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: SP3-2509-541-1

Test Date: 09/16/2025

Luminaire Tested: GALN-SA1A-AMB-U-T3BC

Data in this report applies to families of products including GALN-SA1A*

Report Generated By FNC07603 / LDUCLS01DT01661
Version: v7.05

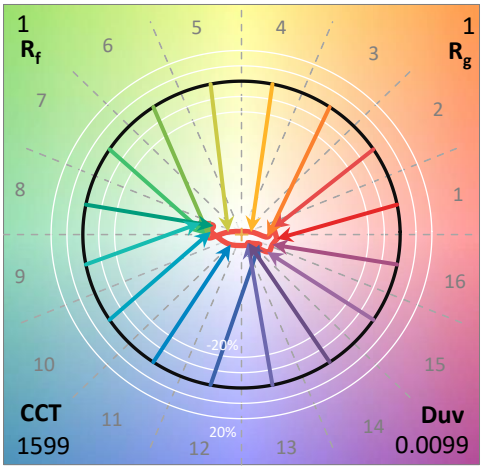
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP3-2509-541-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP3 - 3M SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/02/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GALN-SA1A-AMB-U-T3BC** |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE. (1) AMBER, 615MA LIGHTSQUARES TYPE III ROADWAY OPTICS WITH ANGLED BACKLIGHT CONTROL HEATSINK |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 1599 |
| CIE u': | 0.3452 |
| CIE v': | 0.5480 |
| Duv: | 0.0099 |
| CIE x: | 0.5859 |
| CIE y: | 0.4133 |
| CIE z: | 0.0008 |
| Peak Wavelength (nm): | 596 |
| Dominant Wavelength (nm): | 591 |
| Purity: | 99.94224 |
| Rf: | 1.2 |
| Rg: | 0.9 |

| | | | | | |
|---|---|---|---|---|---|
| CRI (Ra): | -22.7 | | | | |
| R1: | -36.4 | R9: | -395.3 | | |
| R2: | 50.8 | R10: | 26.0 | | |
| R3: | 18.3 | R11: | -97.2 | | |
| R4: | -69.1 | R12: | -14.1 | | |
| R5: | -41.9 | R13: | -17.6 | | |
| R6: | 38.5 | R14: | 46.4 | | |
| R7: | -6.7 | R15: | -69.4 | | |
| R8: | -135.4 | | | | |




## Test Conditions

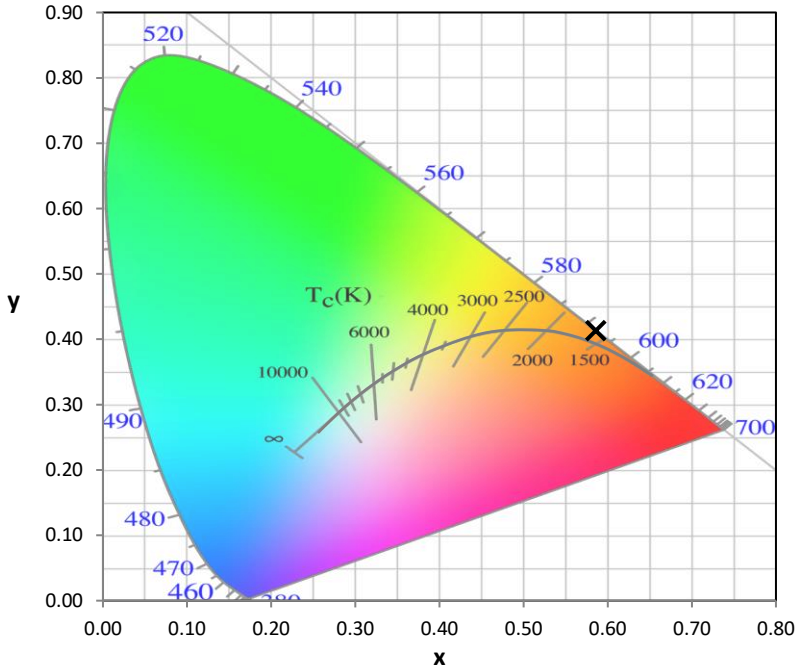
| | |
|---|---|
| Stabilization Time: | 64M |
| Operation Time: | 2H 4M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP3-2509-541-1

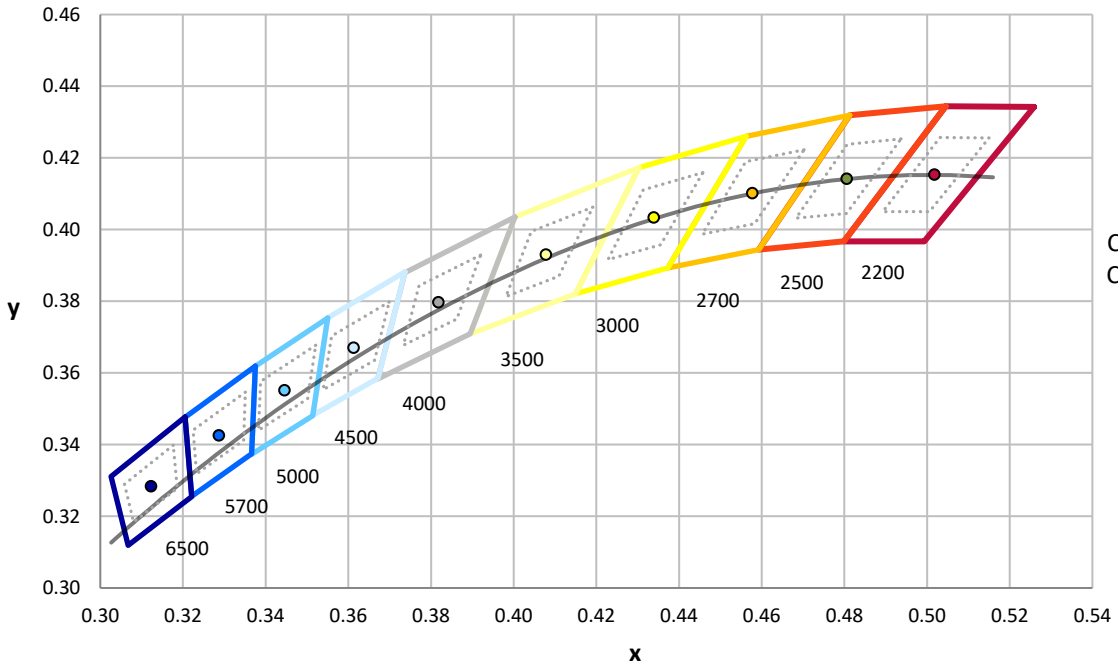
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 3M SPHERE IN02505 | 7/1/2025 | 1/1/2026 |
| Power Meter | XITRON INXT2011006 | 1/20/2025 | 1/20/2026 |
| AC Power Source | CHROMA 61604 IN6064A | 10/22/2024 | 10/22/2025 |
| DC Power Source | EYSIGHT N5770A IN0534 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | TANDD IN4036E | 10/22/2024 | 10/22/2025 |
| | | | |

REPORT NUMBER: SP3-2509-541-1

**CIE 1931 Chromaticity Diagram**




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

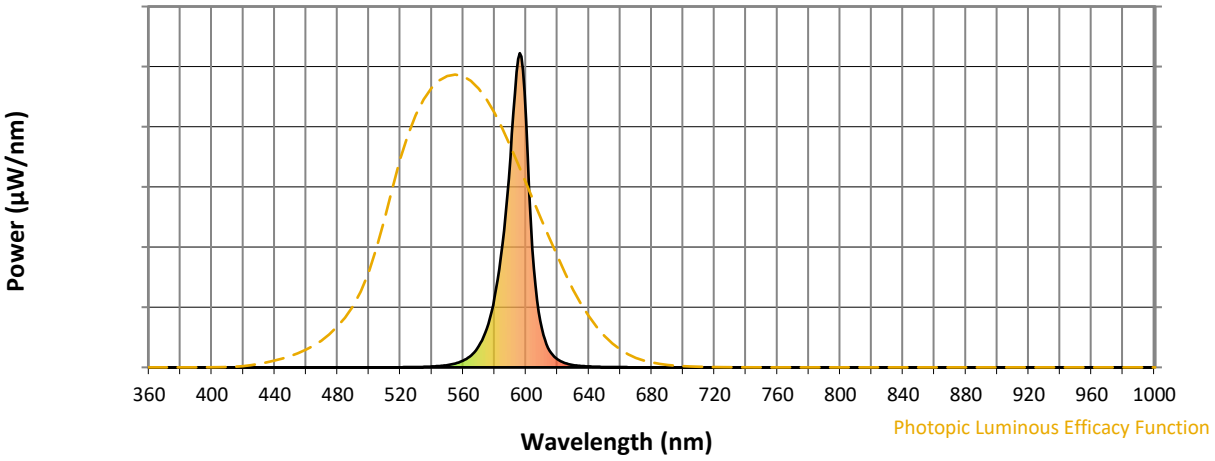



CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

## Photopic Flux vs. Wavelength

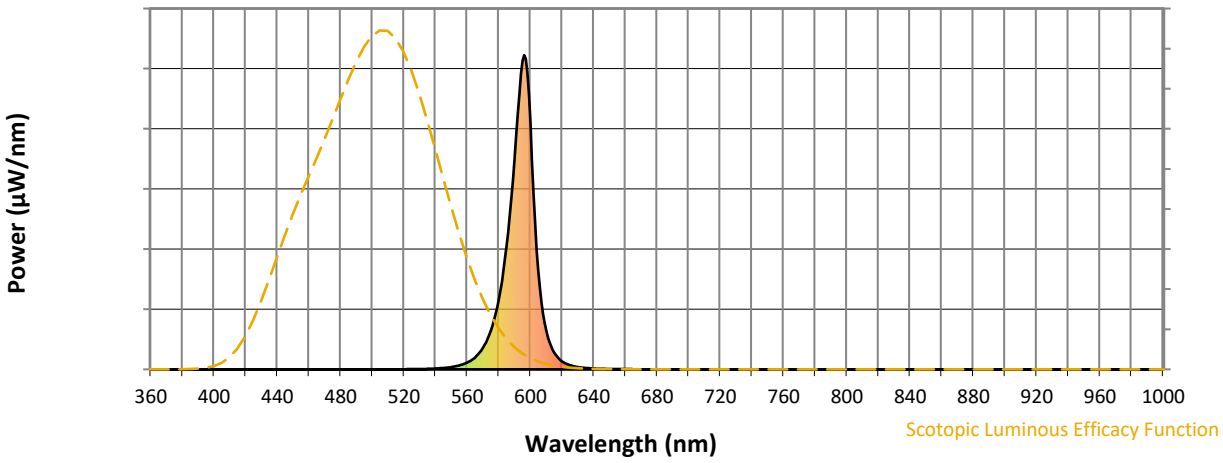



## Photopic Lumens: NR

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP3-2509-541-1

## Scotopic Flux vs. Wavelength

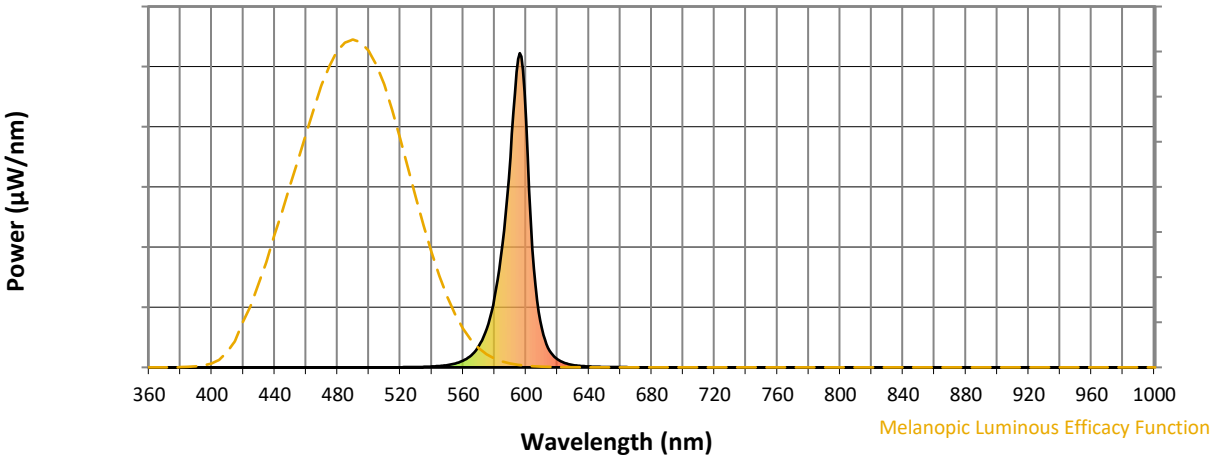



**Scotopic Lumens: NR** **S/P: 0.23**

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP3-2509-541-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 0.13**

| 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 | 0 | NR | 620 | 26 | NR | 750 | 0 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 0 | NR | 625 | 13 | NR | 755 | 0 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 0 | NR | 630 | 8 | NR | 760 | 0 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 0 | NR | 635 | 4 | NR | 765 | 0 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 0 | NR | 640 | 3 | NR | 770 | 0 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 0 | NR | 645 | 2 | NR | 775 | 0 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 1 | NR | 650 | 1 | NR | 780 | 0 | NR | 910 | 0 | NR |
| 395 | 0 | NR | 525 | 1 | NR | 655 | 1 | NR | 785 | 0 | NR | 915 | 0 | NR |
| 400 | 0 | NR | 530 | 1 | NR | 660 | 1 | NR | 790 | 0 | NR | 920 | 0 | NR |
| 405 | 0 | NR | 535 | 2 | NR | 665 | 1 | NR | 795 | 0 | NR | 925 | 0 | NR |
| 410 | 0 | NR | 540 | 3 | NR | 670 | 0 | NR | 800 | 0 | NR | 930 | 0 | NR |
| 415 | 0 | NR | 545 | 4 | NR | 675 | 0 | NR | 805 | 0 | NR | 935 | 0 | NR |
| 420 | 0 | NR | 550 | 7 | NR | 680 | 0 | NR | 810 | 0 | NR | 940 | 0 | NR |
| 425 | 0 | NR | 555 | 12 | NR | 685 | 0 | NR | 815 | 0 | NR | 945 | 0 | NR |
| 430 | 0 | NR | 560 | 22 | NR | 690 | 0 | NR | 820 | 0 | NR | 950 | 0 | NR |
| 435 | 0 | NR | 565 | 38 | NR | 695 | 0 | NR | 825 | 0 | NR | 955 | 0 | NR |
| 440 | 0 | NR | 570 | 68 | NR | 700 | 0 | NR | 830 | 0 | NR | 960 | 0 | NR |
| 445 | 0 | NR | 575 | 123 | NR | 705 | 0 | NR | 835 | 0 | NR | 965 | 0 | NR |
| 450 | 0 | NR | 580 | 223 | NR | 710 | 0 | NR | 840 | 0 | NR | 970 | 0 | NR |
| 455 | 0 | NR | 585 | 392 | NR | 715 | 0 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 0 | NR | 590 | 669 | NR | 720 | 0 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 0 | NR | 595 | 982 | NR | 725 | 0 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 0 | NR | 600 | 783 | NR | 730 | 0 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 0 | NR | 605 | 315 | NR | 735 | 0 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 0 | NR | 610 | 124 | NR | 740 | 0 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 0 | NR | 615 | 53 | NR | 745 | 0 | NR | 875 | 0 | NR | | | |

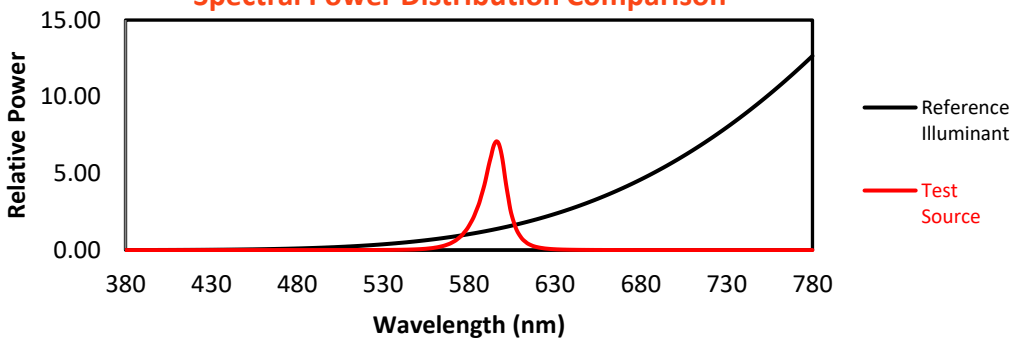
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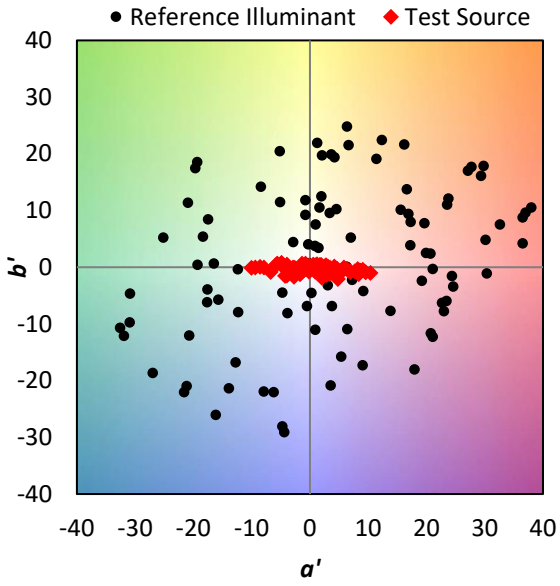
## Summary

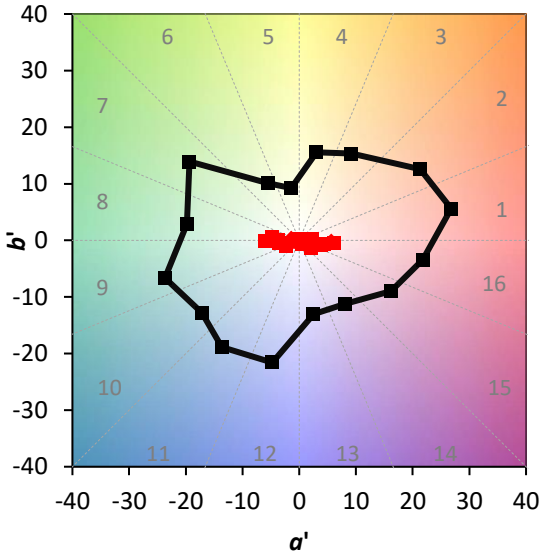
$R_f$ = 1.2
$R_g$ = 0.9
CIE $R_a$ = -22.7
$R_9$ = -395.3

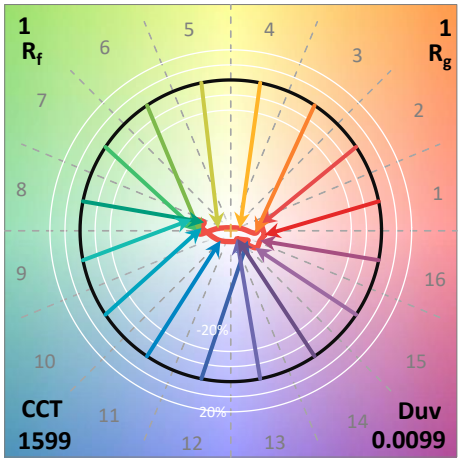
## Spectral Power Distribution Comparison

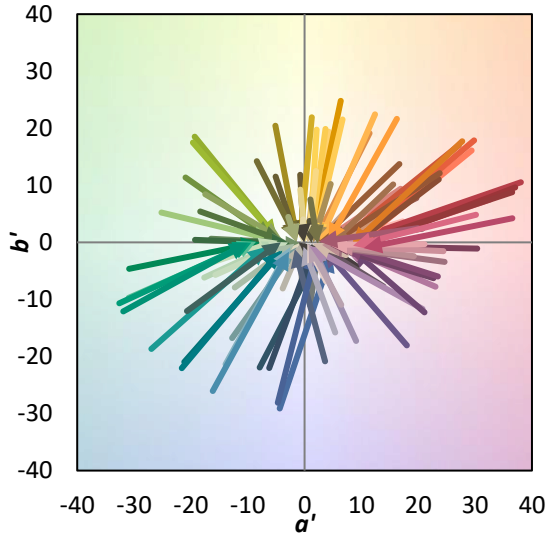



## Color Vector Graphics



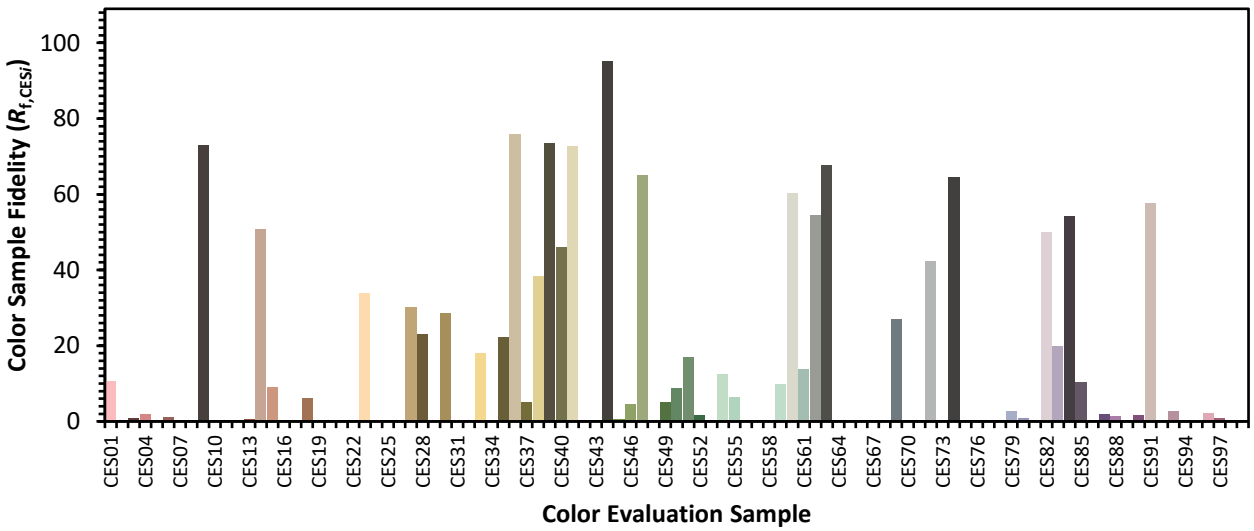



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**Individual Sample Fidelity Index ($R_{f,i}$)**

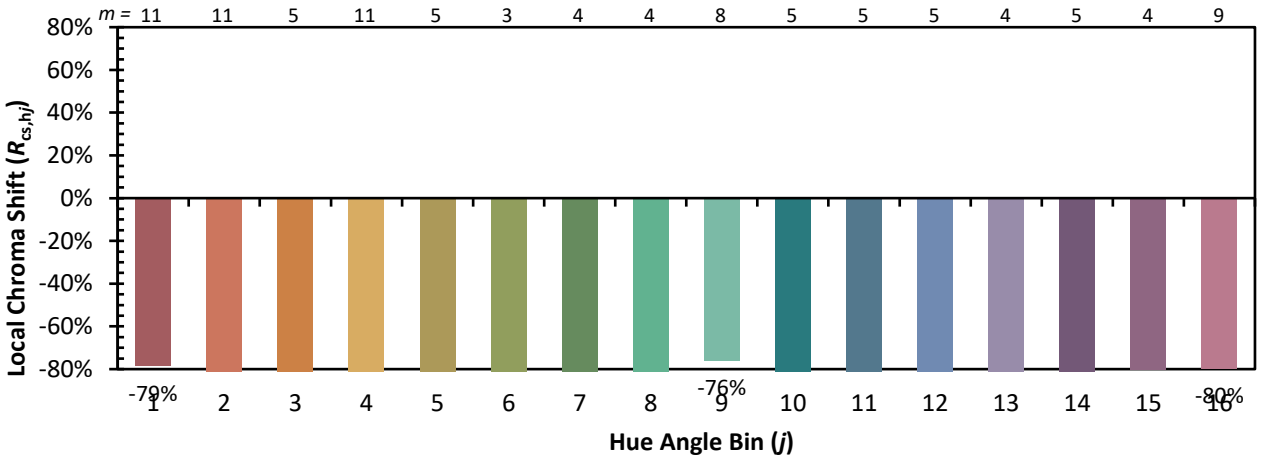
| | | | |
|---|---|---|---|
| CES01 = 90 | CES26 = 0 | CES51 = 17 | CES76 = 0 |
| CES02 = 69 | CES27 = 30 | CES52 = 2 | CES77 = 0 |
| CES03 = 30 | CES28 = 23 | CES53 = 0 | CES78 = 0 |
| CES04 = 77 | CES29 = 0 | CES54 = 12 | CES79 = 3 |
| CES05 = 51 | CES30 = 29 | CES55 = 6 | CES80 = 1 |
| CES06 = 56 | CES31 = 0 | CES56 = 0 | CES81 = 0 |
| CES07 = 40 | CES32 = 0 | CES57 = 0 | CES82 = 50 |
| CES08 = 38 | CES33 = 18 | CES58 = 0 | CES83 = 20 |
| CES09 = 29 | CES34 = 0 | CES59 = 10 | CES84 = 54 |
| CES10 = 87 | CES35 = 22 | CES60 = 60 | CES85 = 10 |
| CES11 = 70 | CES36 = 76 | CES61 = 14 | CES86 = 0 |
| CES12 = 75 | CES37 = 5 | CES62 = 55 | CES87 = 2 |
| CES13 = 46 | CES38 = 38 | CES63 = 68 | CES88 = 1 |
| CES14 = 76 | CES39 = 73 | CES64 = 0 | CES89 = 0 |
| CES15 = 74 | CES40 = 46 | CES65 = 0 | CES90 = 2 |
| CES16 = 49 | CES41 = 73 | CES66 = 0 | CES91 = 58 |
| CES17 = 56 | CES42 = 0 | CES67 = 0 | CES92 = 0 |
| CES18 = 59 | CES43 = 0 | CES68 = 0 | CES93 = 3 |
| CES19 = 80 | CES44 = 95 | CES69 = 27 | CES94 = 0 |
| CES20 = 71 | CES45 = 1 | CES70 = 0 | CES95 = 0 |
| CES21 = 94 | CES46 = 5 | CES71 = 0 | CES96 = 2 |
| CES22 = 86 | CES47 = 65 | CES72 = 42 | CES97 = 1 |
| CES23 = 94 | CES48 = 0 | CES73 = 0 | CES98 = 0 |
| CES24 = 95 | CES49 = 5 | CES74 = 65 | CES99 = 0 |
| CES25 = 79 | CES50 = 9 | CES75 = 0 | |

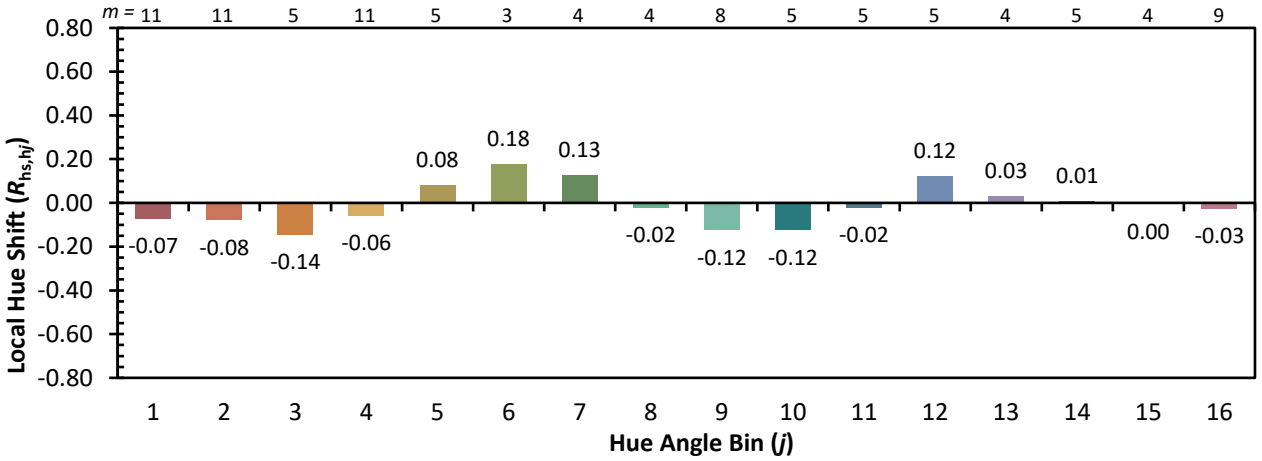


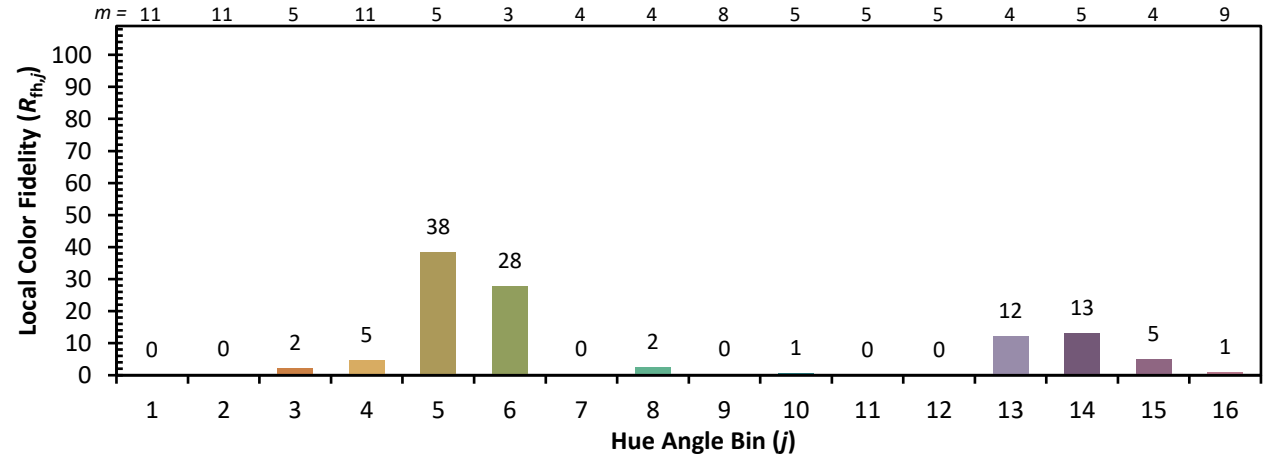
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## Color Rendition by Hue-Angle Bin



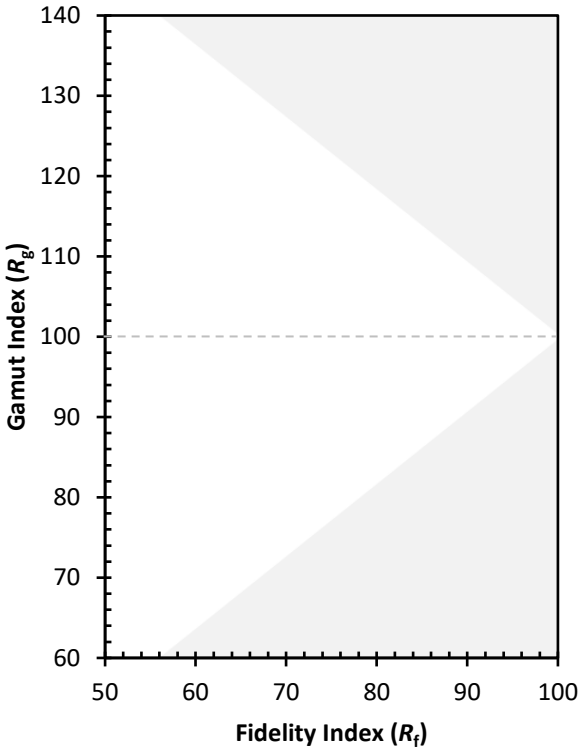



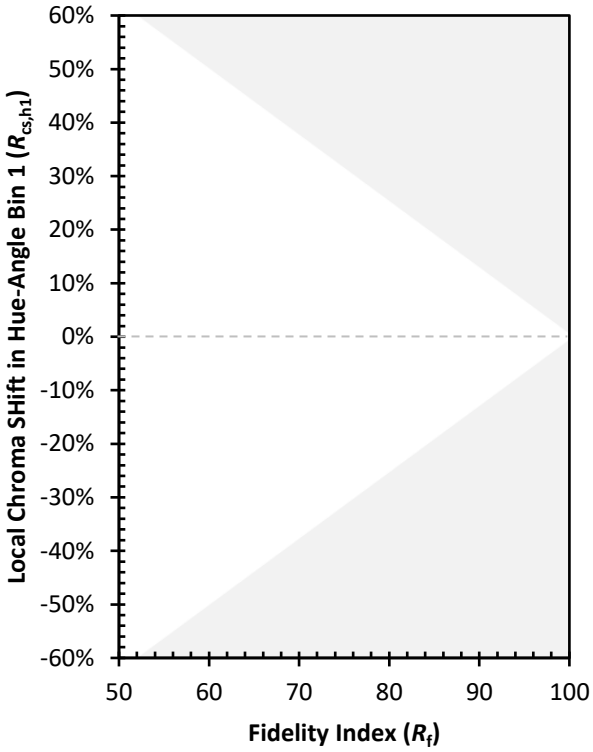



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## Measure Comparisons




(END OF REPORT)