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: P1704732

Luminaire Tested: GSS-SB5A-AMB-U-SLR

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: | P1704732 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 10/28/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB5A-AMB-U-SLR |
| Description: | GALLEON SITE SLIM HIGH DENSITY LED ARRAYS 5SQUARE 161W 1590K FIXTURE w/ RIGHT 90 DEG SPILL CONTROL DISTRIBUTION |
| Light Source: | (130) 1590K CCT, 0 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9791.5 lumens |
| Efficiency: | N/A |
| Efficacy: | 61.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B2 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 160.6 |
| 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 |

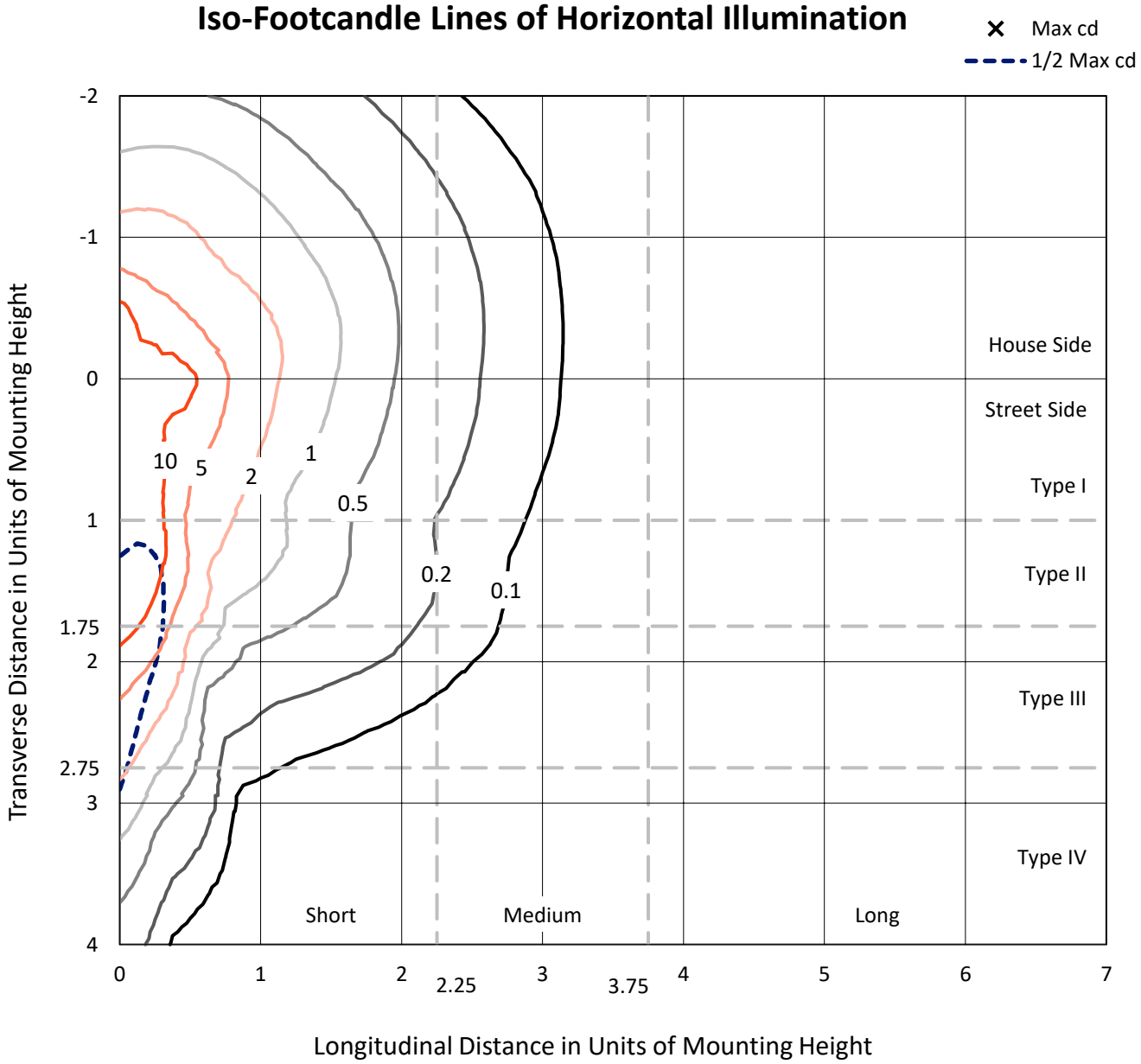


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## Iso-Footcandle Lines of Horizontal Illumination



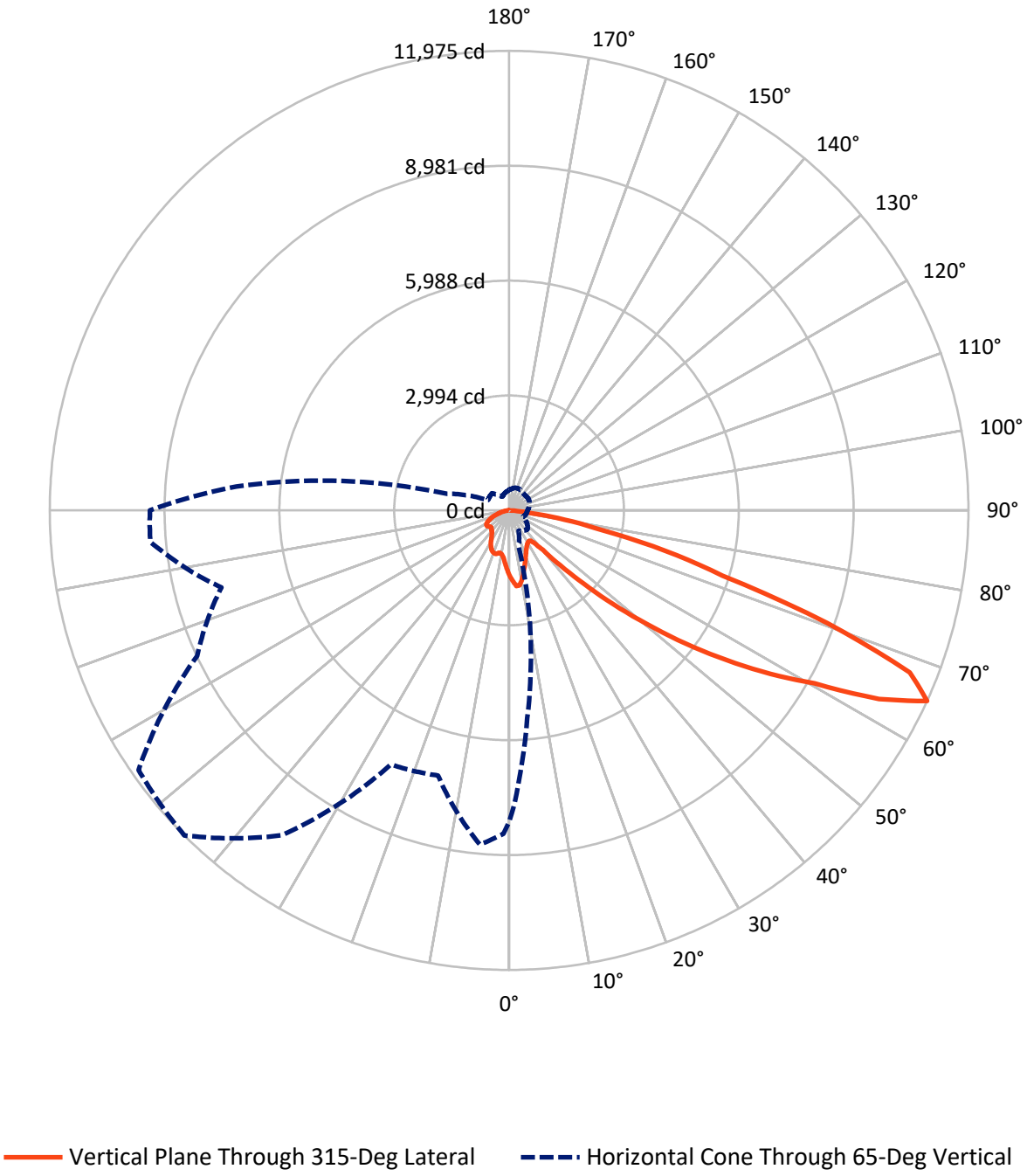

Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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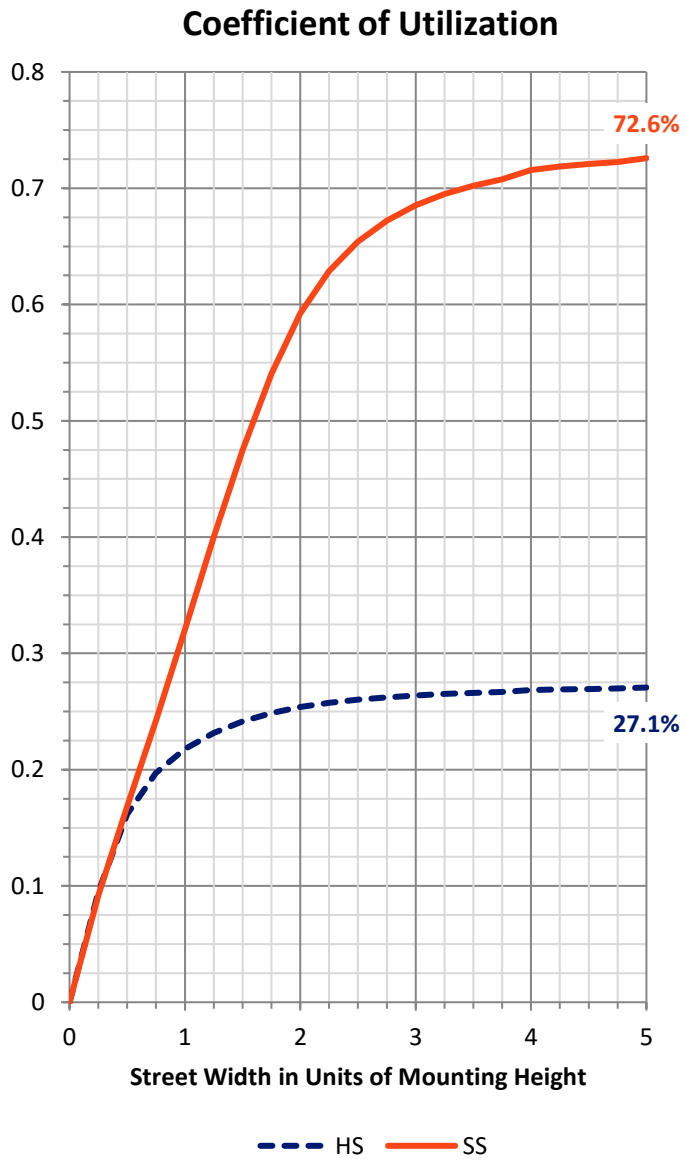
REPORT NUMBER: P1704732
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2672.4 | 0.0 | 2672.4 |
| | % Fixture | 27.3 | 0.0 | 27.3 |
| **Street Side** | Lumens | 7119.0 | 0.0 | 7119.0 |
| | % Fixture | 72.7 | 0.0 | 72.7 |
| **Total** | Lumens | 9791.5 | 0.0 | 9791.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 157.3 | 1.6 |
| 10°-20° | 446.6 | 4.6 |
| 20°-30° | 678.4 | 6.9 |
| 30°-40° | 823.2 | 8.4 |
| 40°-50° | 1179.8 | 12.0 |
| 50°-60° | 2093.6 | 21.4 |
| 60°-70° | 2874.1 | 29.4 |
| 70°-80° | 1403.3 | 14.3 |
| 80°-90° | 134.9 | 1.4 |
| 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° | 9791.5 | 100.0 |
| 0°-180° | 9791.5 | 100.0 |



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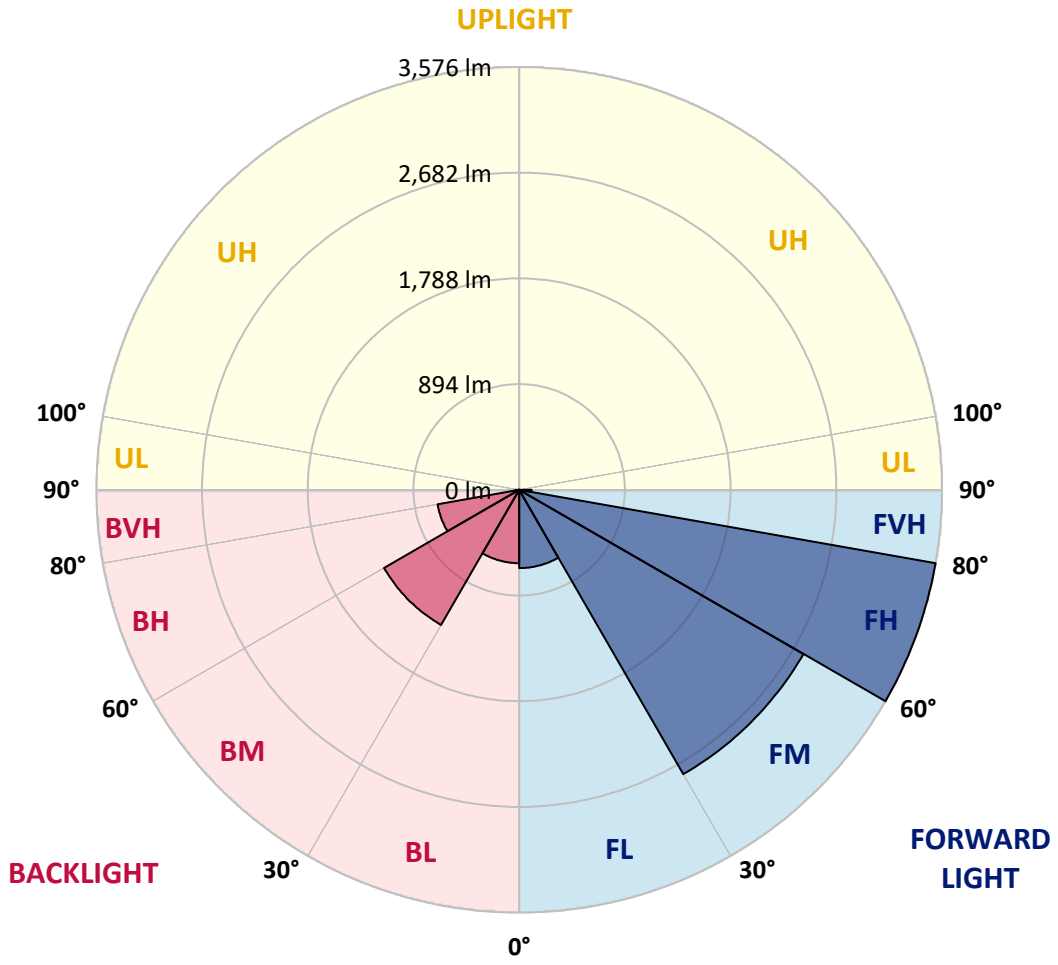
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 662.1 | 6.8 | | | |
| FM | (30°-60°) | 2776.5 | 28.4 | | | |
| FH | (60°-80°) | 3576.4 | 36.5 | | | G2/5000 |
| FVH | (80°-90°) | 104.1 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 620.2 | 6.3 | B2/1000 | | |
| BM | (30°-60°) | 1320.2 | 13.5 | B2/2500 | | |
| BH | (60°-80°) | 701.1 | 7.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 30.9 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 |
| 2.5° | 1815.3 | 1815.3 | 1810.6 | 1787.1 | 1754.3 | 1730.8 | 1702.7 | 1669.8 | 1632.3 | 1613.6 | 1599.5 |
| 5° | 1932.5 | 1909.1 | 1895.0 | 1848.1 | 1782.4 | 1726.1 | 1674.5 | 1622.9 | 1562.0 | 1505.7 | 1468.2 |
| 7.5° | 1960.7 | 1951.3 | 1951.3 | 1871.5 | 1801.2 | 1726.1 | 1669.8 | 1604.2 | 1524.4 | 1454.1 | 1365.0 |
| 10° | 1960.7 | 1956.0 | 1941.9 | 1904.4 | 1801.2 | 1721.4 | 1669.8 | 1608.9 | 1538.5 | 1449.4 | 1365.0 |
| 12.5° | 1946.6 | 1951.3 | 1956.0 | 1913.8 | 1810.6 | 1735.5 | 1665.2 | 1622.9 | 1571.3 | 1515.1 | 1435.3 |
| 15° | 1923.1 | 1927.8 | 1956.0 | 1937.2 | 1829.3 | 1712.1 | 1646.4 | 1594.8 | 1599.5 | 1632.3 | 1590.1 |
| 17.5° | 1909.1 | 1909.1 | 1970.0 | 1960.7 | 1834.0 | 1721.4 | 1580.7 | 1538.5 | 1604.2 | 1749.6 | 1768.3 |
| 20° | 1885.6 | 1899.7 | 1979.4 | 1979.4 | 1834.0 | 1641.7 | 1472.8 | 1454.1 | 1590.1 | 1763.7 | 1876.2 |
| 22.5° | 1862.2 | 1876.2 | 1988.8 | 2021.6 | 1852.8 | 1585.4 | 1341.5 | 1355.6 | 1515.1 | 1688.6 | 1838.7 |
| 25° | 1843.4 | 1857.5 | 2002.9 | 2101.4 | 1866.9 | 1501.0 | 1238.3 | 1289.9 | 1421.2 | 1547.9 | 1688.6 |
| 27.5° | 1838.7 | 1876.2 | 2049.8 | 2209.3 | 1895.0 | 1425.9 | 1182.0 | 1252.4 | 1341.5 | 1425.9 | 1505.7 |
| 30° | 1857.5 | 1885.6 | 2106.1 | 2307.8 | 1965.4 | 1346.2 | 1153.9 | 1219.6 | 1280.5 | 1341.5 | 1355.6 |
| 32.5° | 1909.1 | 1941.9 | 2209.3 | 2443.8 | 2012.3 | 1327.4 | 1144.5 | 1182.0 | 1210.2 | 1219.6 | 1238.3 |
| 35° | 1960.7 | 2017.0 | 2354.7 | 2575.1 | 2035.7 | 1308.7 | 1149.2 | 1121.0 | 1125.7 | 1121.0 | 1116.4 |
| 37.5° | 2068.5 | 2129.5 | 2514.2 | 2729.9 | 1979.4 | 1275.8 | 1149.2 | 1055.4 | 1031.9 | 1003.8 | 1013.2 |
| 40° | 2237.4 | 2289.0 | 2744.0 | 2917.5 | 1871.5 | 1214.9 | 1121.0 | 989.7 | 938.1 | 910.0 | 900.6 |
| 42.5° | 2490.7 | 2575.1 | 3091.1 | 3119.2 | 1740.2 | 1130.4 | 1069.5 | 905.3 | 839.6 | 816.2 | 802.1 |
| 45° | 2851.9 | 2959.8 | 3625.8 | 3428.8 | 1599.5 | 1036.6 | 980.3 | 834.9 | 759.9 | 731.7 | 731.7 |
| 47.5° | 3466.3 | 3611.7 | 4324.7 | 3818.1 | 1440.0 | 975.6 | 867.8 | 741.1 | 670.8 | 656.7 | 670.8 |
| 50° | 4427.9 | 4615.5 | 5459.8 | 4277.8 | 1299.3 | 938.1 | 778.6 | 647.3 | 605.1 | 609.8 | 642.6 |
| 52.5° | 5680.3 | 5975.8 | 6820.1 | 4427.9 | 1214.9 | 910.0 | 727.0 | 576.9 | 567.6 | 581.6 | 619.2 |
| 55° | 7261.0 | 7617.5 | 7974.0 | 4048.0 | 1107.0 | 905.3 | 708.3 | 530.0 | 544.1 | 567.6 | 605.1 |
| 57.5° | 9306.1 | 9268.6 | 8443.1 | 3461.7 | 994.4 | 886.5 | 727.0 | 506.6 | 516.0 | 544.1 | 576.9 |
| 60° | 10375.6 | 10066.0 | 8114.7 | 2570.4 | 863.1 | 830.2 | 750.5 | 520.7 | 492.5 | 520.7 | 548.8 |
| 62.5° | 9648.5 | 9132.6 | 7012.4 | 1651.1 | 727.0 | 745.8 | 750.5 | 548.8 | 440.9 | 478.4 | 506.6 |
| 65° | *8119.4* | *7664.4* | *5431.7* | *961.6* | *586.3* | *647.3* | *689.5* | *567.6* | *398.7* | *440.9* | *469.1* |
| 67.5° | 7021.8 | 6534.0 | 4118.3 | 600.4 | 445.6 | 516.0 | 605.1 | 548.8 | 365.9 | 398.7 | 422.2 |
| 70° | 5764.7 | 5211.2 | 2903.5 | 412.8 | 342.4 | 408.1 | 501.9 | 483.1 | 342.4 | 356.5 | 389.3 |
| 72.5° | 4216.8 | 3818.1 | 1688.6 | 272.1 | 272.1 | 300.2 | 361.2 | 398.7 | 319.0 | 323.7 | 347.1 |
| 75° | 2758.1 | 2420.3 | 858.4 | 182.9 | 201.7 | 206.4 | 290.8 | 309.6 | 276.7 | 272.1 | 300.2 |
| 77.5° | 1210.2 | 1092.9 | 370.6 | 126.6 | 136.0 | 145.4 | 215.8 | 243.9 | 220.5 | 211.1 | 234.5 |
| 80° | 544.1 | 473.7 | 201.7 | 93.8 | 84.4 | 93.8 | 136.0 | 187.6 | 154.8 | 154.8 | 168.9 |
| 82.5° | 159.5 | 150.1 | 107.9 | 61.0 | 51.6 | 56.3 | 70.4 | 112.6 | 112.6 | 103.2 | 107.9 |
| 85° | 61.0 | 51.6 | 42.2 | 23.5 | 23.5 | 23.5 | 32.8 | 65.7 | 56.3 | 51.6 | 42.2 |
| 87.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 9.4 | 14.1 | 14.1 | 18.8 | 14.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 |
| 2.5° | 1590.1 | 1571.3 | 1552.6 | 1533.8 | 1547.9 | 1533.8 | 1543.2 | 1552.6 | 1566.7 | 1580.7 | 1585.4 |
| 5° | 1440.0 | 1421.2 | 1388.4 | 1379.0 | 1365.0 | 1365.0 | 1350.9 | 1374.3 | 1393.1 | 1425.9 | 1440.0 |
| 7.5° | 1346.2 | 1327.4 | 1275.8 | 1257.1 | 1238.3 | 1228.9 | 1233.6 | 1261.8 | 1280.5 | 1308.7 | 1327.4 |
| 10° | 1313.4 | 1271.1 | 1224.2 | 1191.4 | 1168.0 | 1158.6 | 1158.6 | 1168.0 | 1191.4 | 1219.6 | 1243.0 |
| 12.5° | 1369.7 | 1318.1 | 1228.9 | 1182.0 | 1149.2 | 1130.4 | 1139.8 | 1144.5 | 1163.3 | 1191.4 | 1214.9 |
| 15° | 1524.4 | 1440.0 | 1285.2 | 1214.9 | 1177.3 | 1153.9 | 1149.2 | 1153.9 | 1168.0 | 1219.6 | 1257.1 |
| 17.5° | 1721.4 | 1599.5 | 1374.3 | 1247.7 | 1200.8 | 1186.7 | 1168.0 | 1177.3 | 1205.5 | 1280.5 | 1360.3 |
| 20° | 1838.7 | 1730.8 | 1425.9 | 1271.1 | 1205.5 | 1182.0 | 1182.0 | 1200.8 | 1247.7 | 1397.8 | 1519.7 |
| 22.5° | 1848.1 | 1744.9 | 1416.6 | 1247.7 | 1186.7 | 1158.6 | 1168.0 | 1186.7 | 1261.8 | 1472.8 | 1679.2 |
| 25° | 1730.8 | 1641.7 | 1346.2 | 1196.1 | 1139.8 | 1107.0 | 1111.7 | 1149.2 | 1228.9 | 1524.4 | 1683.9 |
| 27.5° | 1524.4 | 1482.2 | 1210.2 | 1102.3 | 1055.4 | 1041.3 | 1055.4 | 1088.2 | 1172.6 | 1421.2 | 1543.2 |
| 30° | 1355.6 | 1299.3 | 1078.8 | 1003.8 | 966.3 | 961.6 | 966.3 | 1003.8 | 1064.8 | 1233.6 | 1369.7 |
| 32.5° | 1233.6 | 1163.3 | 975.6 | 919.4 | 891.2 | 867.8 | 886.5 | 924.0 | 947.5 | 1116.4 | 1219.6 |
| 35° | 1111.7 | 1078.8 | 933.4 | 867.8 | 816.2 | 797.4 | 820.9 | 834.9 | 886.5 | 1022.5 | 1092.9 |
| 37.5° | 1008.5 | 975.6 | 905.3 | 834.9 | 778.6 | 745.8 | 764.6 | 797.4 | 858.4 | 961.6 | 1017.9 |
| 40° | 905.3 | 900.6 | 877.1 | 816.2 | 745.8 | 703.6 | 722.3 | 788.0 | 858.4 | 919.4 | 942.8 |
| 42.5° | 825.5 | 830.2 | 834.9 | 783.3 | 717.7 | 684.8 | 698.9 | 769.3 | 849.0 | 872.4 | 867.8 |
| 45° | 745.8 | 778.6 | 797.4 | 745.8 | 684.8 | 652.0 | 670.8 | 745.8 | 811.5 | 820.9 | 802.1 |
| 47.5° | 698.9 | 731.7 | 755.2 | 713.0 | 675.4 | 637.9 | 661.4 | 727.0 | 783.3 | 788.0 | 750.5 |
| 50° | 675.4 | 703.6 | 731.7 | 708.3 | 675.4 | 656.7 | 680.1 | 745.8 | 783.3 | 759.9 | 731.7 |
| 52.5° | 647.3 | 684.8 | 731.7 | 717.7 | 689.5 | 675.4 | 708.3 | 769.3 | 797.4 | 755.2 | 713.0 |
| 55° | 623.8 | 661.4 | 713.0 | 717.7 | 694.2 | 703.6 | 736.4 | 769.3 | 802.1 | 759.9 | 703.6 |
| 57.5° | 605.1 | 642.6 | 694.2 | 698.9 | 684.8 | 703.6 | 731.7 | 759.9 | 788.0 | 727.0 | 680.1 |
| 60° | 576.9 | 605.1 | 670.8 | 680.1 | 670.8 | 684.8 | 703.6 | 741.1 | 750.5 | 689.5 | 642.6 |
| 62.5° | 530.0 | 562.9 | 614.5 | 642.6 | 637.9 | 633.2 | 647.3 | 689.5 | 689.5 | 628.5 | 586.3 |
| 65° | *478.4* | *506.6* | *553.5* | *581.6* | *586.3* | *567.6* | *595.7* | *619.2* | *609.8* | *558.2* | *534.7* |
| 67.5° | 431.5 | 450.3 | 487.8 | 506.6 | 511.3 | 501.9 | 511.3 | 534.7 | 516.0 | 492.5 | 469.1 |
| 70° | 389.3 | 408.1 | 440.9 | 450.3 | 440.9 | 431.5 | 436.2 | 459.7 | 469.1 | 445.6 | 426.8 |
| 72.5° | 351.8 | 361.2 | 384.6 | 394.0 | 370.6 | 333.0 | 375.2 | 412.8 | 422.2 | 394.0 | 379.9 |
| 75° | 304.9 | 314.3 | 337.7 | 337.7 | 290.8 | 272.1 | 295.5 | 351.8 | 365.9 | 342.4 | 323.7 |
| 77.5° | 239.2 | 258.0 | 286.1 | 286.1 | 234.5 | 215.8 | 234.5 | 286.1 | 286.1 | 276.7 | 262.7 |
| 80° | 168.9 | 178.2 | 192.3 | 192.3 | 178.2 | 154.8 | 164.2 | 201.7 | 215.8 | 215.8 | 201.7 |
| 82.5° | 103.2 | 103.2 | 122.0 | 122.0 | 103.2 | 93.8 | 112.6 | 126.6 | 131.3 | 122.0 | 103.2 |
| 85° | 37.5 | 37.5 | 51.6 | 56.3 | 46.9 | 37.5 | 37.5 | 56.3 | 46.9 | 37.5 | 37.5 |
| 87.5° | 14.1 | 14.1 | 9.4 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 4.7 | 4.7 |
| 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° | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 |
| 2.5° | 1590.1 | 1618.3 | 1646.4 | 1665.2 | 1698.0 | 1730.8 | 1749.6 | 1777.7 | 1796.5 | 1805.9 | 1815.3 |
| 5° | 1463.5 | 1515.1 | 1571.3 | 1622.9 | 1679.2 | 1759.0 | 1801.2 | 1862.2 | 1899.7 | 1918.4 | 1927.8 |
| 7.5° | 1355.6 | 1407.2 | 1505.7 | 1576.0 | 1669.8 | 1759.0 | 1824.6 | 1904.4 | 1937.2 | 1960.7 | 1965.4 |
| 10° | 1280.5 | 1355.6 | 1463.5 | 1585.4 | 1665.2 | 1754.3 | 1829.3 | 1918.4 | 1951.3 | 1956.0 | 1951.3 |
| 12.5° | 1261.8 | 1374.3 | 1510.4 | 1613.6 | 1688.6 | 1759.0 | 1829.3 | 1927.8 | 1941.9 | 1923.1 | 1895.0 |
| 15° | 1308.7 | 1458.8 | 1594.8 | 1669.8 | 1726.1 | 1782.4 | 1852.8 | 1937.2 | 1918.4 | 1876.2 | 1810.6 |
| 17.5° | 1458.8 | 1660.5 | 1707.4 | 1702.7 | 1754.3 | 1796.5 | 1857.5 | 1937.2 | 1885.6 | 1819.9 | 1744.9 |
| 20° | 1679.2 | 1843.4 | 1763.7 | 1679.2 | 1712.1 | 1782.4 | 1876.2 | 1941.9 | 1857.5 | 1763.7 | 1651.1 |
| 22.5° | 1829.3 | 1899.7 | 1740.2 | 1590.1 | 1590.1 | 1735.5 | 1876.2 | 1970.0 | 1838.7 | 1712.1 | 1590.1 |
| 25° | 1805.9 | 1787.1 | 1618.3 | 1472.8 | 1430.6 | 1660.5 | 1880.9 | 2002.9 | 1838.7 | 1683.9 | 1533.8 |
| 27.5° | 1655.8 | 1608.9 | 1472.8 | 1369.7 | 1294.6 | 1552.6 | 1895.0 | 2068.5 | 1862.2 | 1674.5 | 1510.4 |
| 30° | 1440.0 | 1444.7 | 1379.0 | 1275.8 | 1196.1 | 1468.2 | 1918.4 | 2181.1 | 1909.1 | 1674.5 | 1501.0 |
| 32.5° | 1275.8 | 1294.6 | 1266.5 | 1219.6 | 1139.8 | 1379.0 | 1993.5 | 2317.1 | 1970.0 | 1683.9 | 1496.3 |
| 35° | 1139.8 | 1158.6 | 1168.0 | 1135.1 | 1097.6 | 1304.0 | 2087.3 | 2462.6 | 2059.2 | 1740.2 | 1515.1 |
| 37.5° | 1031.9 | 1046.0 | 1064.8 | 1060.1 | 1074.1 | 1289.9 | 2134.2 | 2593.9 | 2167.0 | 1782.4 | 1547.9 |
| 40° | 938.1 | 938.1 | 971.0 | 975.6 | 1046.0 | 1247.7 | 2110.8 | 2715.8 | 2289.0 | 1857.5 | 1622.9 |
| 42.5° | 853.7 | 849.0 | 867.8 | 910.0 | 1046.0 | 1186.7 | 2002.9 | 2847.2 | 2457.9 | 1979.4 | 1730.8 |
| 45° | 778.6 | 764.6 | 792.7 | 839.6 | 1017.9 | 1092.9 | 1848.1 | 2997.3 | 2687.7 | 2148.3 | 1890.3 |
| 47.5° | 717.7 | 694.2 | 717.7 | 783.3 | 933.4 | 980.3 | 1646.4 | 3170.8 | 2941.0 | 2345.3 | 2115.5 |
| 50° | 689.5 | 637.9 | 623.8 | 708.3 | 816.2 | 895.9 | 1458.8 | 3349.1 | 3316.2 | 2645.5 | 2382.8 |
| 52.5° | 670.8 | 600.4 | 572.3 | 595.7 | 703.6 | 863.1 | 1266.5 | 3775.9 | 4165.2 | 3208.4 | 2786.2 |
| 55° | 656.7 | 586.3 | 553.5 | 530.0 | 619.2 | 834.9 | 1125.7 | 4104.3 | 5595.9 | 4624.9 | 3635.2 |
| 57.5° | 628.5 | 558.2 | 525.3 | 483.1 | 623.8 | 802.1 | 1008.5 | 4245.0 | 7411.1 | 6529.3 | 5037.7 |
| 60° | 595.7 | 534.7 | 487.8 | 459.7 | 628.5 | 773.9 | 881.8 | 3911.9 | 8203.8 | 8973.1 | 7007.7 |
| 62.5° | 553.5 | 487.8 | 445.6 | 455.0 | 647.3 | 703.6 | 755.2 | 2880.0 | 8189.8 | 9944.0 | 10239.5 |
| 65° | *501.9* | *459.7* | *398.7* | *464.4* | *628.5* | *619.2* | *614.5* | *1665.2* | *7139.1* | *9362.4* | *9390.5* |
| 67.5° | 450.3 | 412.8 | 365.9 | 464.4 | 572.3 | 534.7 | 455.0 | 895.9 | 5750.7 | 8297.6 | 8560.3 |
| 70° | 408.1 | 375.2 | 333.0 | 412.8 | 483.1 | 422.2 | 337.7 | 516.0 | 4085.5 | 6655.9 | 7504.9 |
| 72.5° | 365.9 | 333.0 | 304.9 | 361.2 | 361.2 | 319.0 | 248.6 | 295.5 | 2476.6 | 4967.3 | 6233.8 |
| 75° | 309.6 | 281.4 | 272.1 | 319.0 | 286.1 | 201.7 | 192.3 | 187.6 | 1289.9 | 3410.1 | 4690.6 |
| 77.5° | 253.3 | 220.5 | 211.1 | 267.4 | 229.8 | 140.7 | 131.3 | 122.0 | 567.6 | 1974.7 | 3039.5 |
| 80° | 201.7 | 168.9 | 145.4 | 197.0 | 159.5 | 89.1 | 75.0 | 79.7 | 173.6 | 525.3 | 863.1 |
| 82.5° | 98.5 | 98.5 | 93.8 | 131.3 | 84.4 | 51.6 | 42.2 | 51.6 | 93.8 | 168.9 | 243.9 |
| 85° | 37.5 | 37.5 | 42.2 | 61.0 | 32.8 | 18.8 | 14.1 | 18.8 | 28.1 | 42.2 | 51.6 |
| 87.5° | 4.7 | 9.4 | 4.7 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1704732
CATALOG NUMBER: GSS-SB5A-AMB-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 | 1698.0 |
| 2.5° | 1824.6 | 1834.0 | 1838.7 | 1838.7 | 1848.1 | 1838.7 | 1824.6 | 1819.9 | 1815.3 | 1815.3 |
| 5° | 1951.3 | 1960.7 | 1970.0 | 1979.4 | 1974.7 | 1965.4 | 1941.9 | 1923.1 | 1918.4 | 1932.5 |
| 7.5° | 1974.7 | 1970.0 | 1965.4 | 1970.0 | 1956.0 | 1956.0 | 1979.4 | 1965.4 | 1956.0 | 1960.7 |
| 10° | 1913.8 | 1862.2 | 1852.8 | 1834.0 | 1843.4 | 1852.8 | 1913.8 | 1956.0 | 1946.6 | 1960.7 |
| 12.5° | 1805.9 | 1730.8 | 1679.2 | 1660.5 | 1679.2 | 1721.4 | 1815.3 | 1918.4 | 1932.5 | 1946.6 |
| 15° | 1688.6 | 1576.0 | 1529.1 | 1515.1 | 1533.8 | 1590.1 | 1693.3 | 1862.2 | 1909.1 | 1923.1 |
| 17.5° | 1566.7 | 1458.8 | 1393.1 | 1369.7 | 1402.5 | 1463.5 | 1608.9 | 1810.6 | 1876.2 | 1909.1 |
| 20° | 1454.1 | 1341.5 | 1271.1 | 1243.0 | 1280.5 | 1374.3 | 1529.1 | 1749.6 | 1843.4 | 1885.6 |
| 22.5° | 1374.3 | 1243.0 | 1168.0 | 1139.8 | 1186.7 | 1289.9 | 1449.4 | 1698.0 | 1819.9 | 1862.2 |
| 25° | 1313.4 | 1172.6 | 1083.5 | 1060.1 | 1125.7 | 1219.6 | 1402.5 | 1660.5 | 1791.8 | 1843.4 |
| 27.5° | 1271.1 | 1111.7 | 1027.2 | 1003.8 | 1064.8 | 1182.0 | 1369.7 | 1618.3 | 1787.1 | 1838.7 |
| 30° | 1247.7 | 1078.8 | 989.7 | 966.3 | 1031.9 | 1153.9 | 1346.2 | 1618.3 | 1787.1 | 1857.5 |
| 32.5° | 1238.3 | 1074.1 | 980.3 | 952.2 | 1031.9 | 1158.6 | 1341.5 | 1622.9 | 1815.3 | 1909.1 |
| 35° | 1252.4 | 1097.6 | 999.1 | 971.0 | 1060.1 | 1200.8 | 1374.3 | 1665.2 | 1876.2 | 1960.7 |
| 37.5° | 1289.9 | 1158.6 | 1078.8 | 1088.2 | 1158.6 | 1289.9 | 1463.5 | 1759.0 | 1970.0 | 2068.5 |
| 40° | 1379.0 | 1280.5 | 1318.1 | 1350.9 | 1444.7 | 1477.5 | 1618.3 | 1918.4 | 2143.6 | 2237.4 |
| 42.5° | 1510.4 | 1590.1 | 1782.4 | 1951.3 | 1946.6 | 1829.3 | 1834.0 | 2124.8 | 2378.1 | 2490.7 |
| 45° | 1777.7 | 2035.7 | 2467.2 | 2720.5 | 2608.0 | 2368.7 | 2167.0 | 2411.0 | 2706.5 | 2851.9 |
| 47.5° | 2120.1 | 2664.3 | 3311.6 | 3644.6 | 3433.5 | 2950.4 | 2547.0 | 2833.1 | 3260.0 | 3466.3 |
| 50° | 2514.2 | 3410.1 | 4282.5 | 4643.7 | 4268.4 | 3527.3 | 2978.5 | 3396.0 | 4094.9 | 4427.9 |
| 52.5° | 2964.4 | 4118.3 | 5356.6 | 5774.1 | 5183.1 | 4071.4 | 3400.7 | 4291.9 | 5319.1 | 5680.3 |
| 55° | 3306.9 | 4770.3 | 6491.8 | 6890.5 | 6050.9 | 4484.2 | 3855.7 | 5567.7 | 6890.5 | 7261.0 |
| 57.5° | 3710.3 | 5366.0 | 7411.1 | 8035.0 | 6707.5 | 4887.6 | 4423.2 | 7359.5 | 9001.2 | 9306.1 |
| 60° | 4254.4 | 6102.4 | 8457.1 | 9156.0 | 7556.5 | 5380.1 | 5286.3 | 9601.6 | 10441.2 | 10375.6 |
| 62.5° | 6313.5 | 7641.0 | 10183.3 | 10825.9 | 9156.0 | 6834.2 | 7275.1 | 10361.5 | 9925.3 | 9648.5 |
| 65° | 7762.9 | 8973.1 | 11792.1 | 11975.1 | 10333.4 | 7303.2 | 7153.1 | 8743.2 | 8429.0 | 8119.4 |
| 67.5° | 6398.0 | 8377.4 | 11257.4 | 11266.8 | 9629.8 | 6454.2 | 5666.2 | 7734.8 | 7359.5 | 7021.8 |
| 70° | 5352.0 | 7289.2 | 9859.6 | 8808.9 | 8513.4 | 5731.9 | 4845.4 | 6871.7 | 6130.6 | 5764.7 |
| 72.5° | 4446.7 | 5652.2 | 8110.0 | 5816.3 | 7186.0 | 4793.8 | 4141.8 | 5633.4 | 4704.7 | 4216.8 |
| 75° | 3480.4 | 4474.8 | 5075.2 | 4207.5 | 4723.4 | 3738.4 | 3231.8 | 4080.8 | 3105.2 | 2758.1 |
| 77.5° | 2335.9 | 2973.8 | 3320.9 | 2476.6 | 3217.7 | 2579.8 | 1637.0 | 1895.0 | 1402.5 | 1210.2 |
| 80° | 910.0 | 1440.0 | 1829.3 | 1477.5 | 1721.4 | 1416.6 | 684.8 | 788.0 | 581.6 | 544.1 |
| 82.5° | 356.5 | 633.2 | 825.5 | 572.3 | 802.1 | 750.5 | 239.2 | 192.3 | 164.2 | 159.5 |
| 85° | 79.7 | 333.0 | 333.0 | 215.8 | 243.9 | 361.2 | 84.4 | 61.0 | 61.0 | 61.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 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

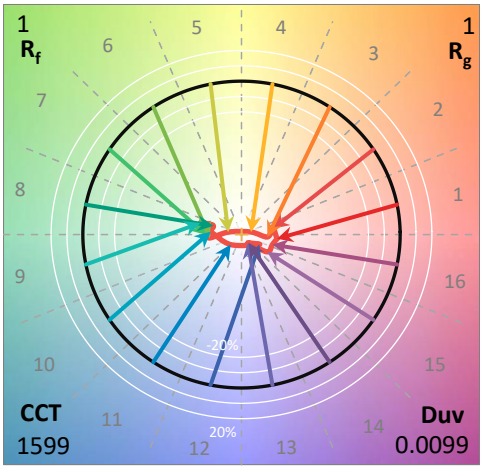
## Test Information

| | |
|---|---|
| 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

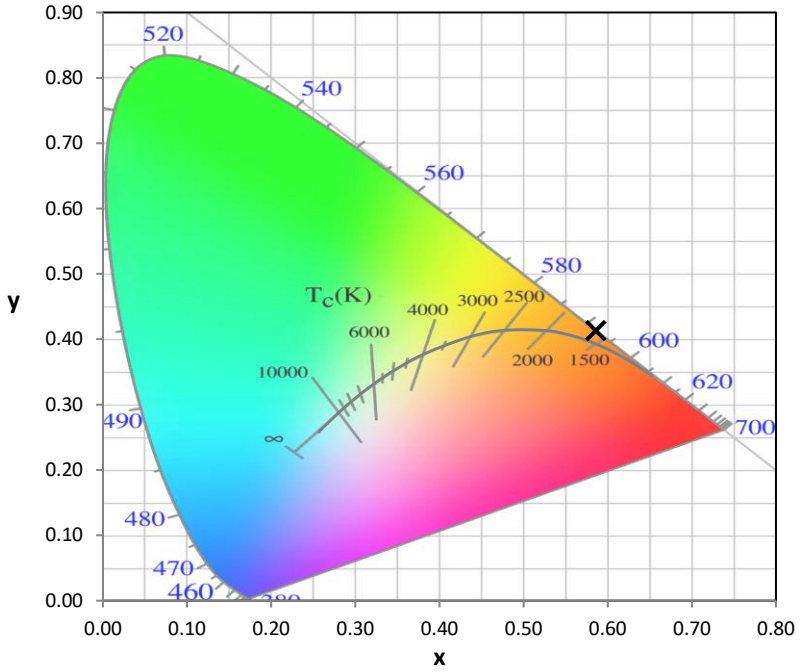
| | |
|---|---|
| Stabilization Time: | 64M |
| Operation Time: | 2H 4M |
| Sphere Temperature (°C): | 25.0 |

REPORT NUMBER: SP3-2509-541-1

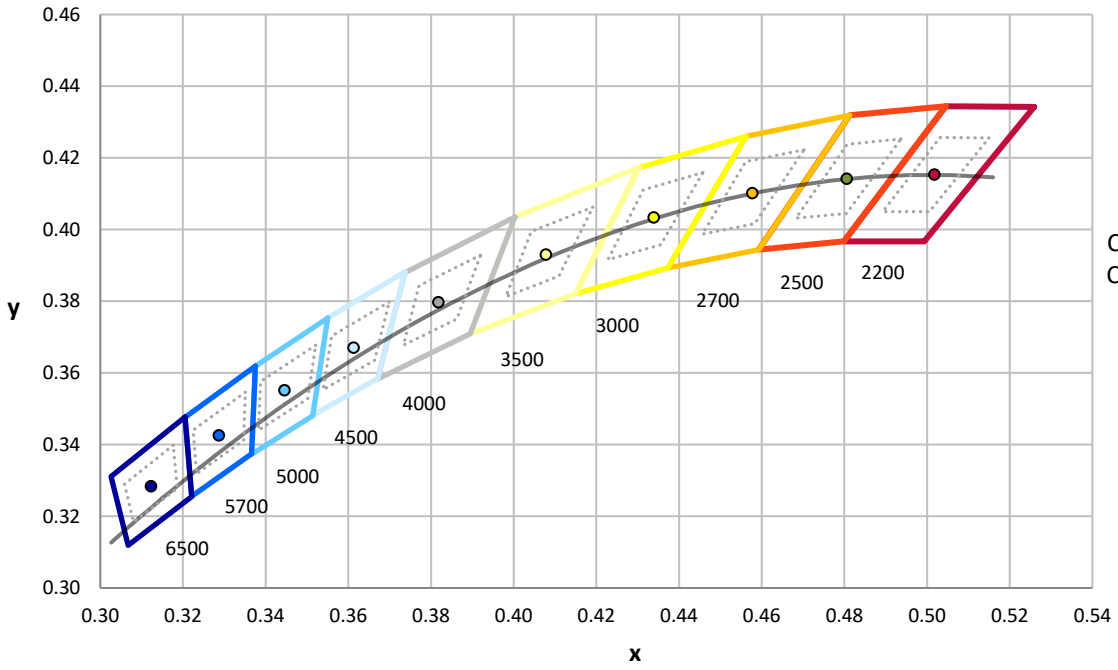
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 3M SPHERE IN02505 | 7/1/2025 | 1/1/2026 |
| Power Meter | XITRON INXT2011006 | 1/20/2025 | 1/20/2026 |
| AC Power Source | CHROMA 61604 IN6064A | 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**

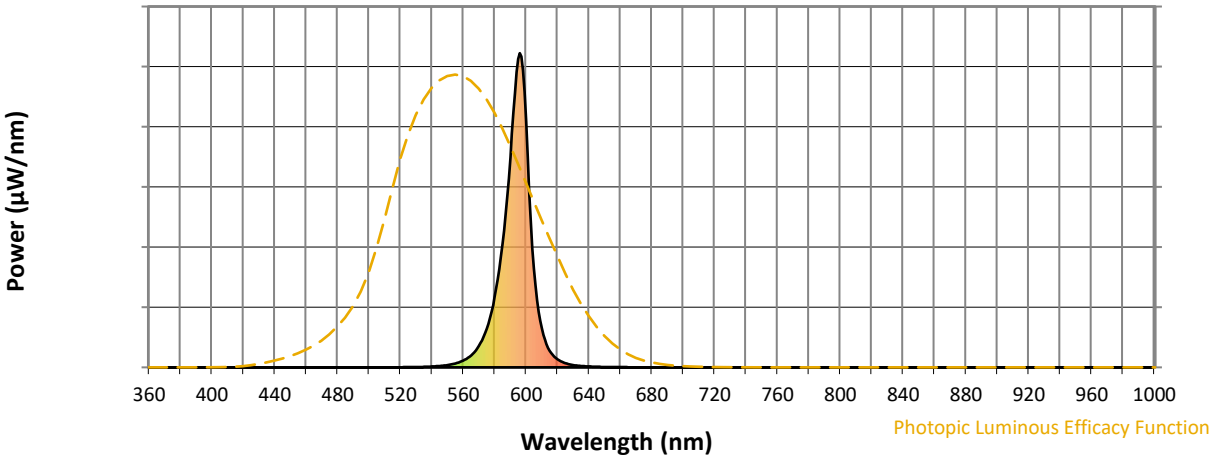



CCT = 1599K
CIE x = 0.5859
CIE y = 0.4133
Duv = 0.0099

Point lies outside the range

REPORT NUMBER: SP3-2509-541-1

## Photopic Flux vs. Wavelength

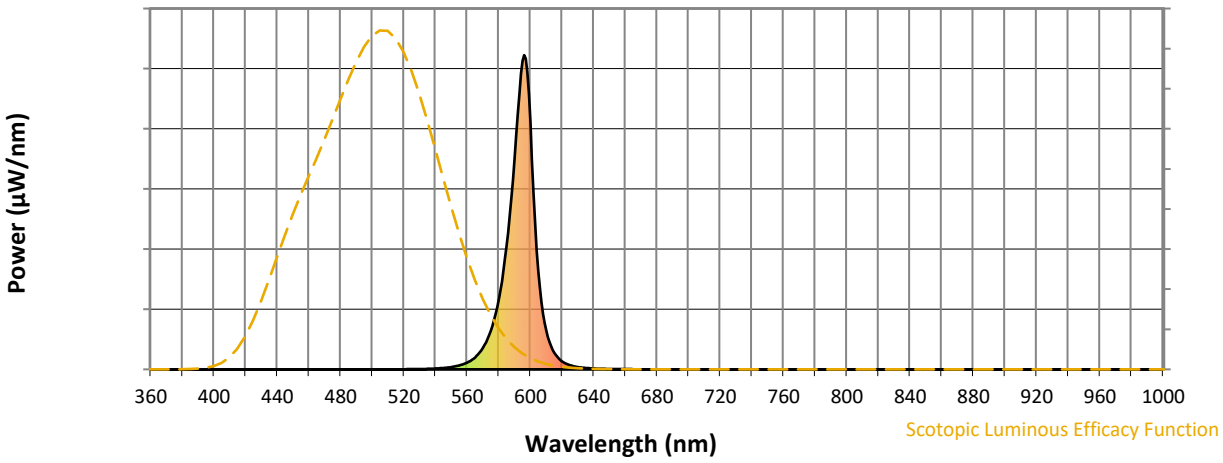



## Photopic Lumens: NR

| 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

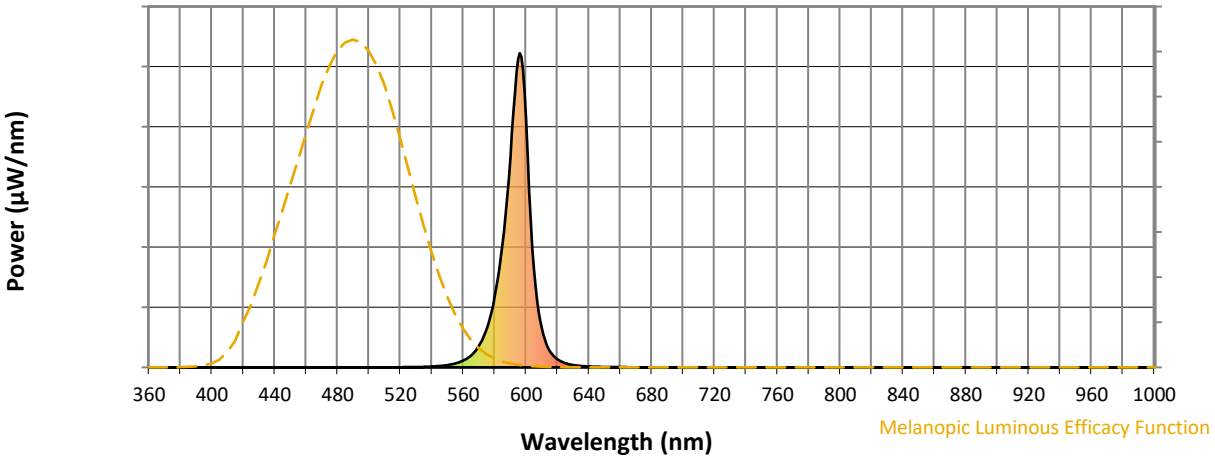



**Scotopic Lumens: NR** **S/P: 0.23**

| 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 | | | |

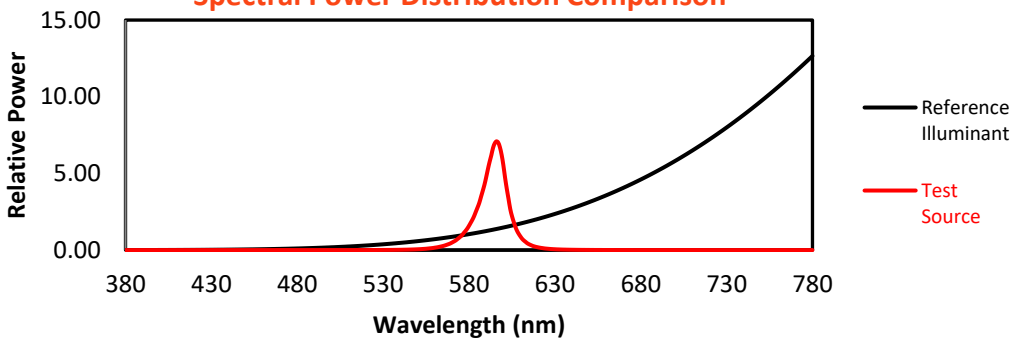
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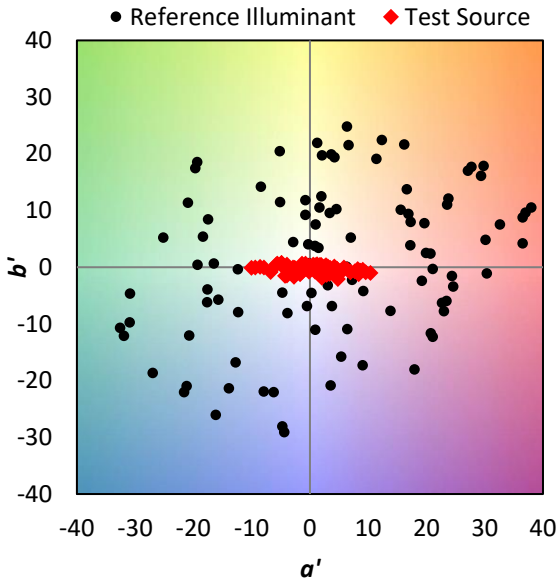
## Summary

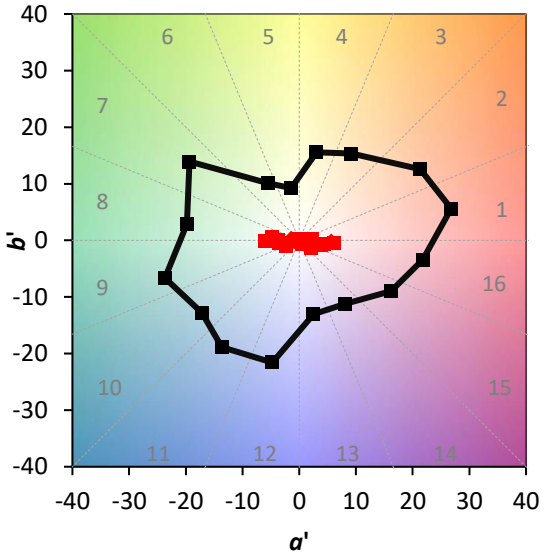
$R_f$ = 1.2
$R_g$ = 0.9
CIE $R_a$ = -22.7
$R_9$ = -395.3

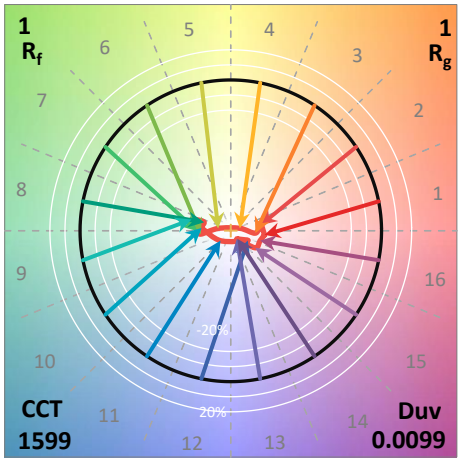
## Spectral Power Distribution Comparison

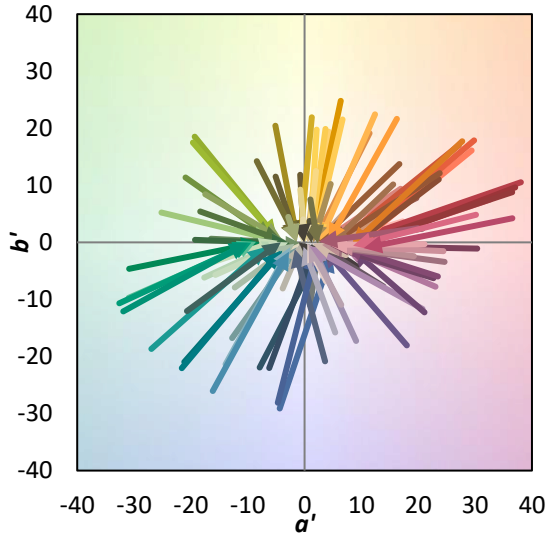



## Color Vector Graphics



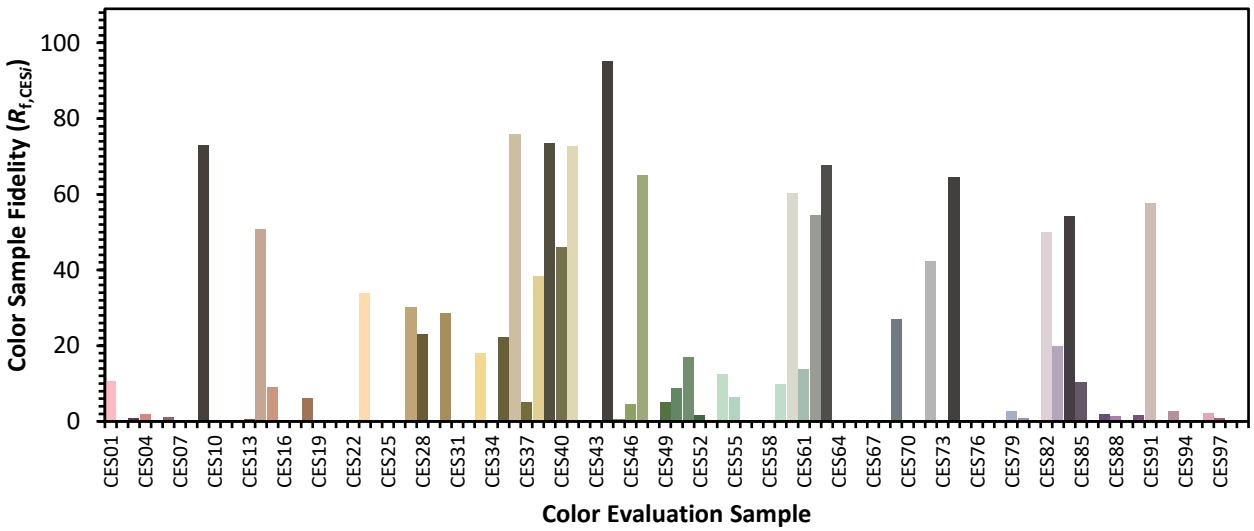



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**Individual Sample Fidelity Index ($R_{f,i}$)**

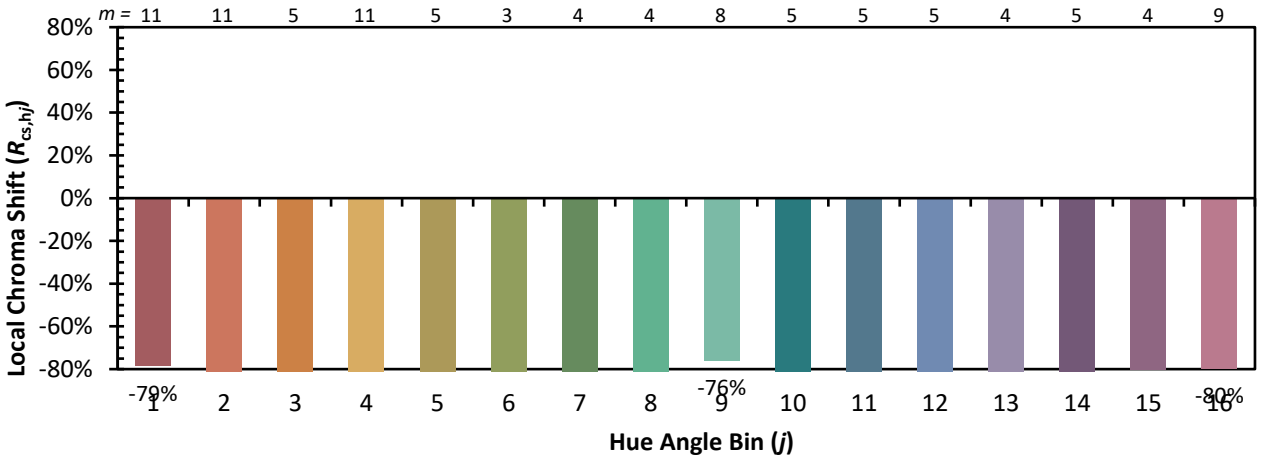
| | | | |
|---|---|---|---|
| CES01 = 90 | CES26 = 0 | CES51 = 17 | CES76 = 0 |
| CES02 = 69 | CES27 = 30 | CES52 = 2 | CES77 = 0 |
| CES03 = 30 | CES28 = 23 | CES53 = 0 | CES78 = 0 |
| CES04 = 77 | CES29 = 0 | CES54 = 12 | CES79 = 3 |
| CES05 = 51 | CES30 = 29 | CES55 = 6 | CES80 = 1 |
| CES06 = 56 | 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 | |

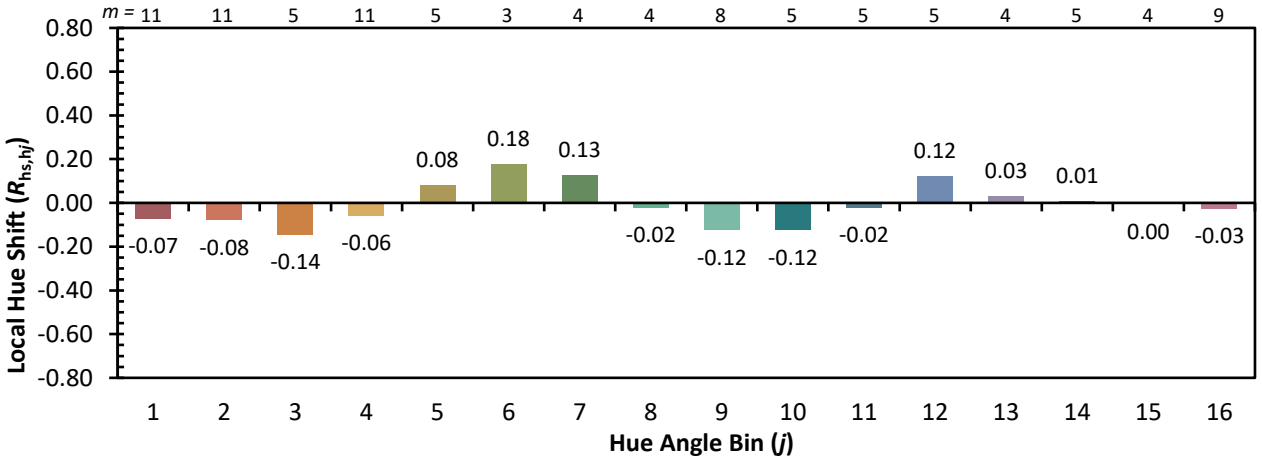


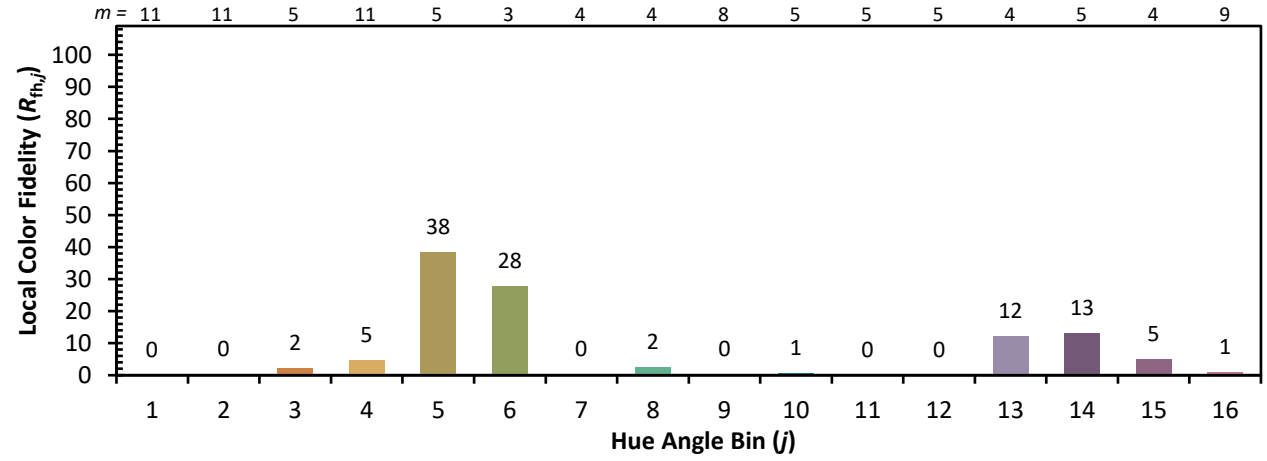
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## Color Rendition by Hue-Angle Bin



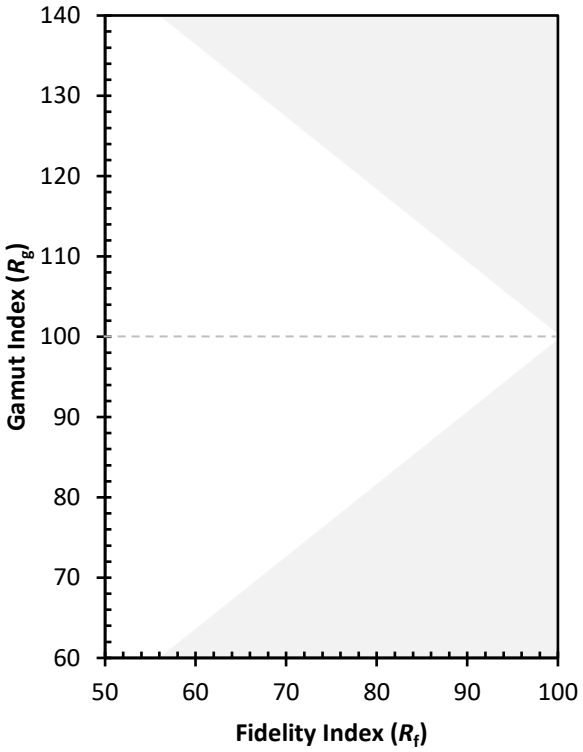



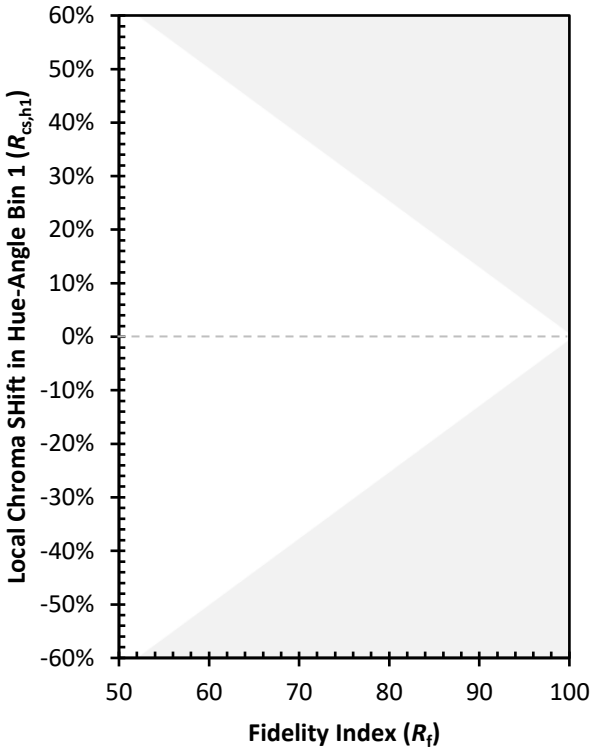



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## Measure Comparisons




(END OF REPORT)