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: P1364515

Luminaire Tested: **GSS-SB4A-740-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: | P1364515 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4A-740-U-SLR-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (104) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 13924.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 122.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B2 - U0 - G3 |

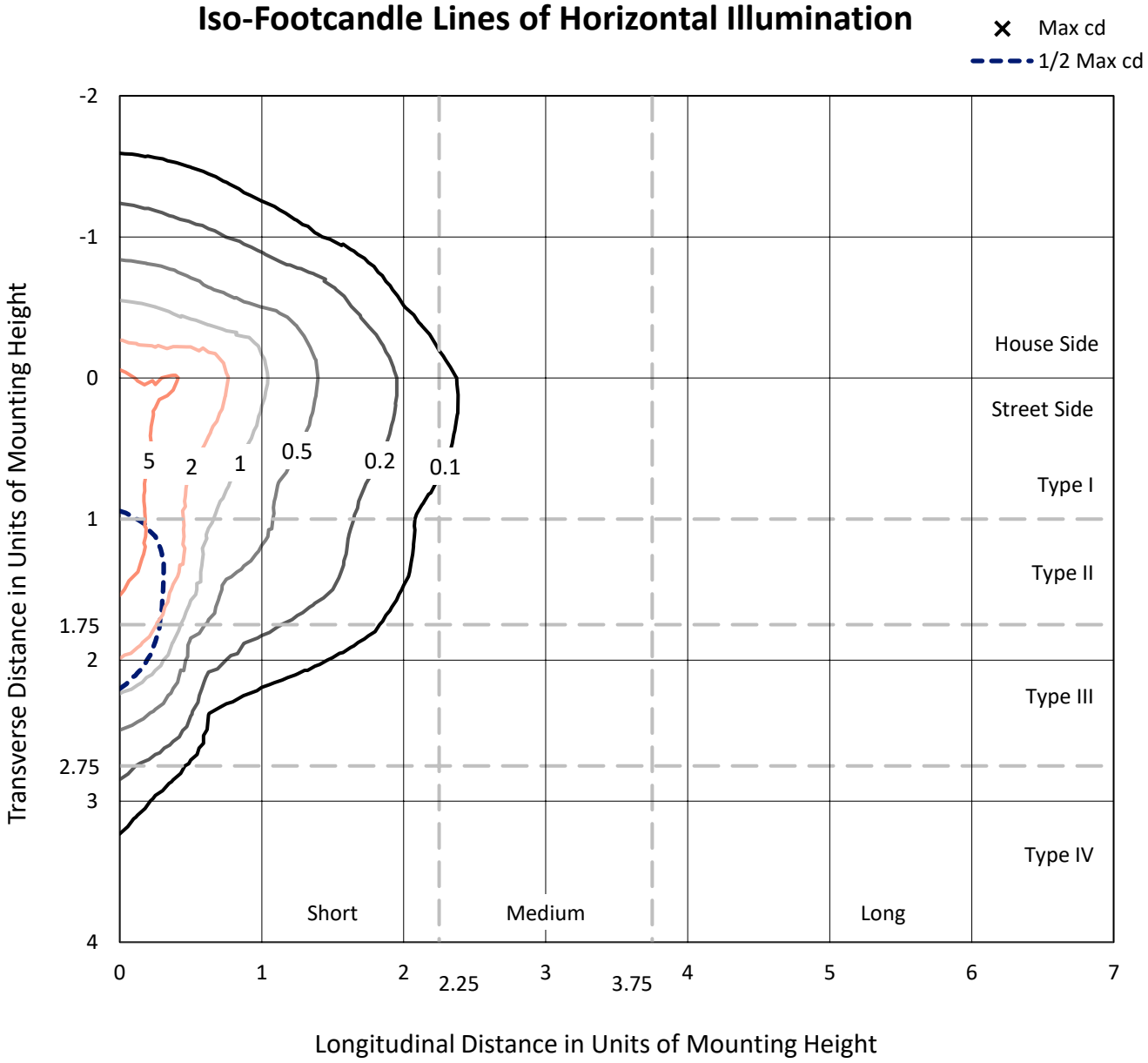
| | |
|---|---|
| Input Watts (W): | 114 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.2% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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

Scaled Data Report

REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

## Iso-Footcandle Lines of Horizontal Illumination



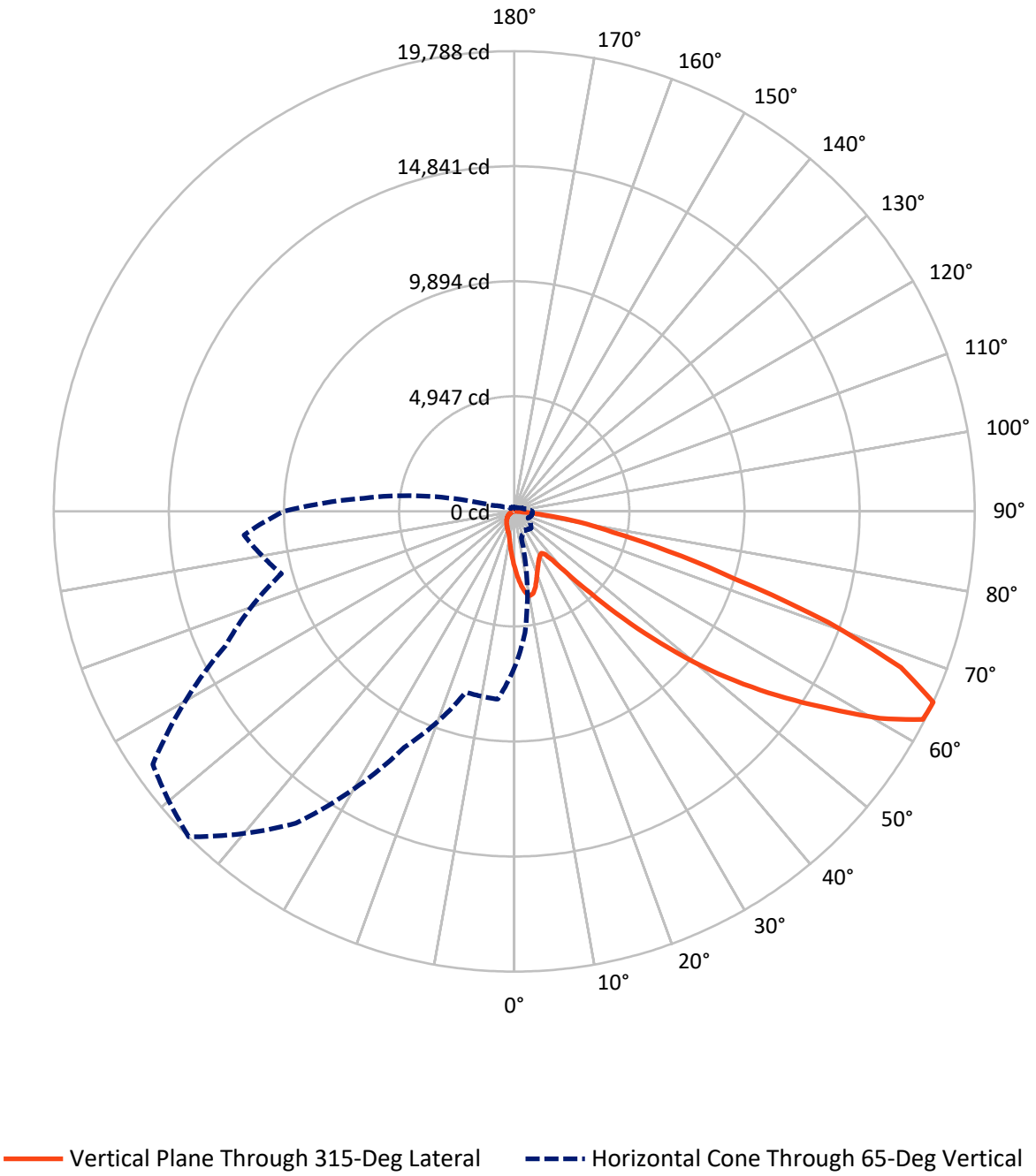

Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

## Luminous Intensity Polar Plot



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

Scaled Data Report

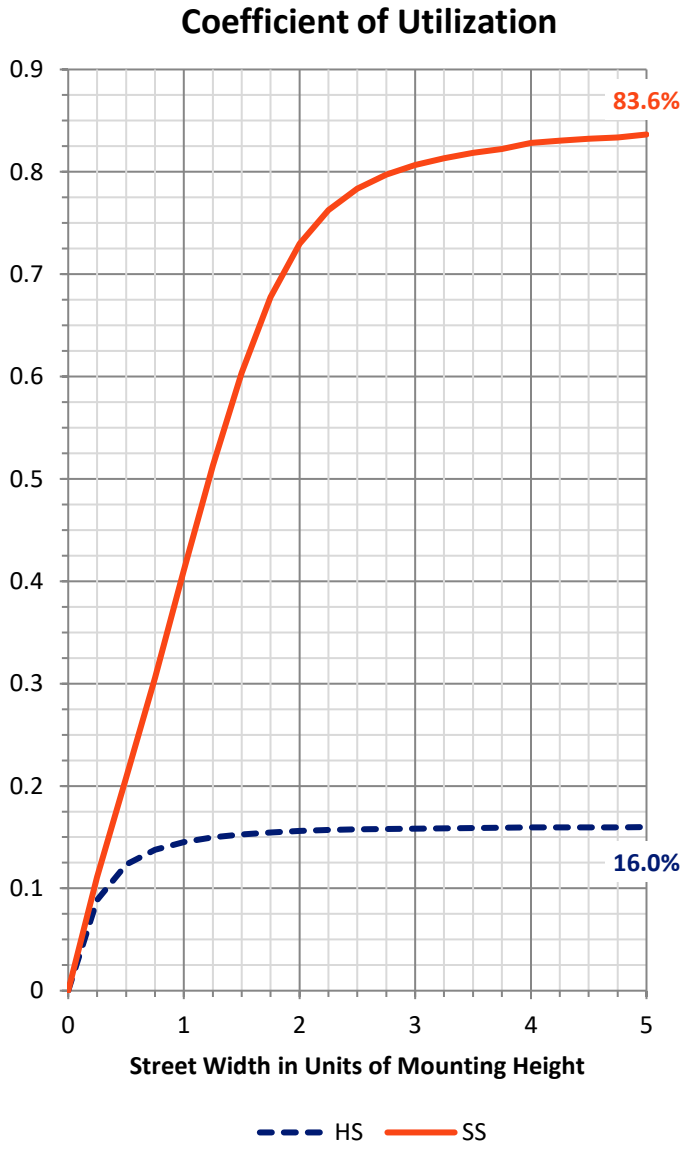
REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2250.9 | 0.0 | 2250.9 |
| | % Fixture | 16.2 | 0.0 | 16.2 |
| **Street Side** | Lumens | 11673.4 | 0.0 | 11673.4 |
| | % Fixture | 83.8 | 0.0 | 83.8 |
| **Total** | Lumens | 13924.3 | 0.0 | 13924.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 231.3 | 1.7 |
| 10°-20° | 639.8 | 4.6 |
| 20°-30° | 916.4 | 6.6 |
| 30°-40° | 1149.4 | 8.3 |
| 40°-50° | 1888.1 | 13.6 |
| 50°-60° | 3407.3 | 24.5 |
| 60°-70° | 3781.4 | 27.2 |
| 70°-80° | 1708.5 | 12.3 |
| 80°-90° | 202.0 | 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° | 13924.3 | 100.0 |
| 0°-180° | 13924.3 | 100.0 |



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

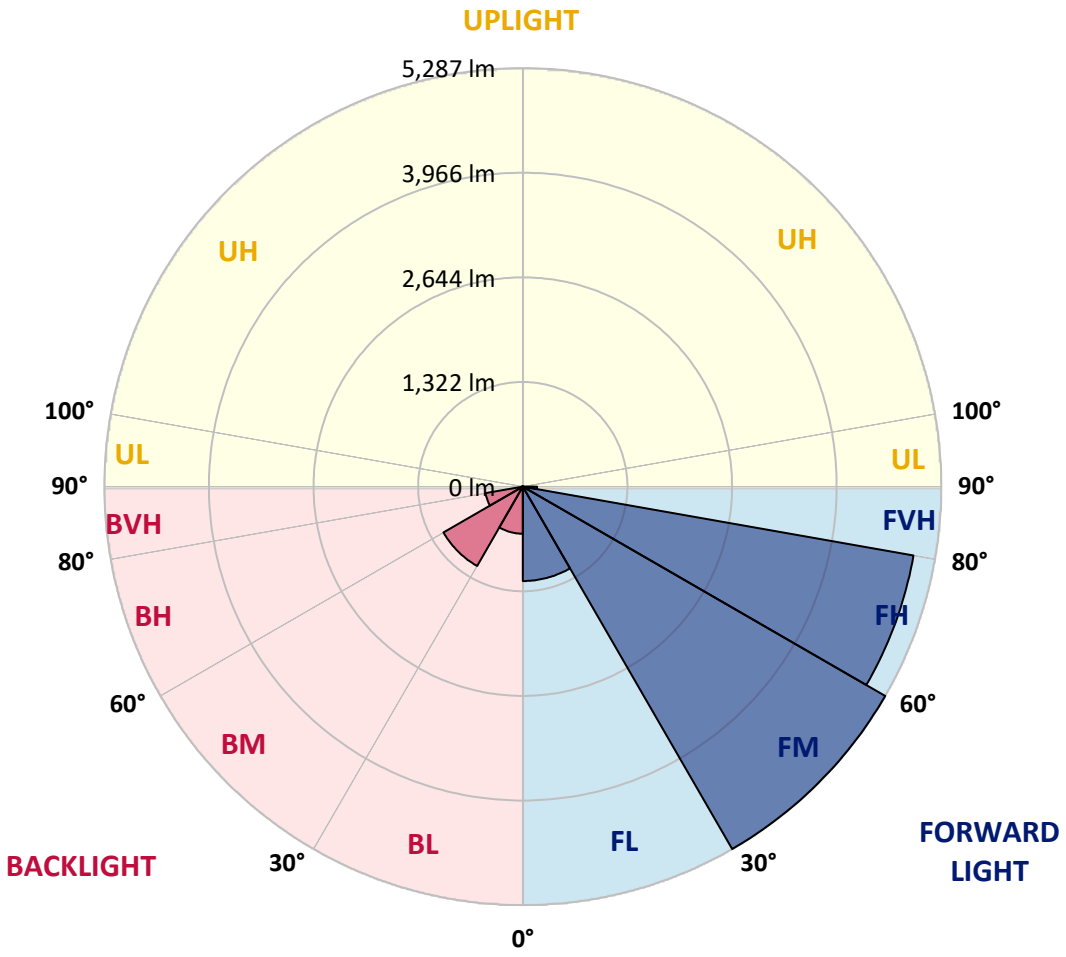
Scaled Data Report

REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1192.7 | 8.6 | | | |
| FM | (30°-60°) | 5287.4 | 38.0 | | | |
| FH | (60°-80°) | 5011.9 | 36.0 | | | G3/7500 |
| FVH | (80°-90°) | 181.3 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 594.8 | 4.3 | B2/1000 | | |
| BM | (30°-60°) | 1157.4 | 8.3 | B2/2500 | | |
| BH | (60°-80°) | 478.0 | 3.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 20.7 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G3**
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 |
| 2.5° | 2715.1 | 2712.5 | 2702.2 | 2638.1 | 2574.0 | 2518.4 | 2462.8 | 2407.2 | 2330.3 | 2270.4 | 2219.1 |
| 5° | 2971.6 | 2957.9 | 2903.2 | 2804.9 | 2698.0 | 2603.9 | 2497.0 | 2394.4 | 2279.0 | 2184.9 | 2086.5 |
| 7.5° | 3146.9 | 3133.2 | 3078.5 | 2916.0 | 2753.6 | 2638.1 | 2522.7 | 2415.8 | 2287.5 | 2163.5 | 2022.4 |
| 10° | 3228.2 | 3212.8 | 3151.2 | 2975.9 | 2787.8 | 2646.7 | 2531.2 | 2432.9 | 2326.0 | 2202.0 | 2026.7 |
| 12.5° | 3283.7 | 3264.9 | 3189.7 | 2988.7 | 2796.3 | 2655.2 | 2535.5 | 2441.4 | 2364.5 | 2291.8 | 2120.8 |
| 15° | 3317.9 | 3300.8 | 3232.4 | 3022.9 | 2800.6 | 2642.4 | 2501.3 | 2411.5 | 2385.8 | 2398.7 | 2317.4 |
| 17.5° | 3369.3 | 3353.0 | 3288.0 | 3065.7 | 2826.2 | 2621.0 | 2428.6 | 2330.3 | 2385.8 | 2501.3 | 2526.9 |
| 20° | 3437.7 | 3420.6 | 3352.2 | 3121.3 | 2847.6 | 2556.9 | 2291.8 | 2197.7 | 2338.8 | 2531.2 | 2663.8 |
| 22.5° | 3514.6 | 3500.9 | 3446.2 | 3185.4 | 2869.0 | 2462.8 | 2112.2 | 2069.4 | 2240.5 | 2445.7 | 2616.7 |
| 25° | 3608.7 | 3595.9 | 3544.6 | 3275.2 | 2890.4 | 2334.5 | 1958.3 | 1966.8 | 2112.2 | 2274.7 | 2450.0 |
| 27.5° | 3737.0 | 3725.0 | 3677.1 | 3386.4 | 2916.0 | 2202.0 | 1834.3 | 1877.0 | 1983.9 | 2095.1 | 2202.0 |
| 30° | 3878.1 | 3868.7 | 3831.0 | 3518.9 | 2967.3 | 2078.0 | 1761.6 | 1787.2 | 1859.9 | 1949.7 | 2013.9 |
| 32.5° | 4070.5 | 4055.1 | 3993.5 | 3642.9 | 2963.1 | 1983.9 | 1727.4 | 1701.7 | 1723.1 | 1795.8 | 1859.9 |
| 35° | 4309.9 | 4297.9 | 4250.1 | 3771.2 | 2886.1 | 1898.4 | 1710.3 | 1620.5 | 1607.7 | 1650.4 | 1714.6 |
| 37.5° | 4660.5 | 4650.3 | 4609.2 | 3980.7 | 2766.4 | 1791.5 | 1667.5 | 1535.0 | 1492.2 | 1522.2 | 1564.9 |
| 40° | 5186.4 | 5159.9 | 5053.9 | 4220.1 | 2633.8 | 1684.6 | 1590.6 | 1432.4 | 1372.5 | 1393.9 | 1440.9 |
| 42.5° | 5900.5 | 5850.0 | 5648.2 | 4540.8 | 2454.3 | 1582.0 | 1475.1 | 1329.7 | 1265.6 | 1278.4 | 1321.2 |
| 45° | 6815.5 | 6739.4 | 6434.9 | 4981.2 | 2266.1 | 1500.8 | 1355.4 | 1222.9 | 1154.4 | 1167.3 | 1214.3 |
| 47.5° | 7884.4 | 7780.1 | 7362.8 | 5443.0 | 2065.2 | 1453.7 | 1261.3 | 1116.0 | 1064.7 | 1094.6 | 1141.6 |
| 50° | 9145.7 | 9040.6 | 8619.8 | 5738.0 | 1902.7 | 1423.8 | 1188.6 | 1017.6 | 996.2 | 1034.7 | 1073.2 |
| 52.5° | 10522.5 | 10372.9 | 9774.3 | 5549.9 | 1770.1 | 1398.2 | 1163.0 | 949.2 | 957.8 | 987.7 | 1026.2 |
| 55° | 11860.8 | 11528.2 | 10197.6 | 4925.6 | 1599.1 | 1368.2 | 1180.1 | 897.9 | 919.3 | 957.8 | 987.7 |
| 57.5° | 12733.1 | 12155.0 | 9842.7 | 3967.9 | 1419.5 | 1334.0 | 1192.9 | 872.2 | 889.3 | 932.1 | 966.3 |
| 60° | 11972.0 | 11390.5 | 9064.5 | 2971.6 | 1265.6 | 1261.3 | 1171.5 | 863.7 | 838.0 | 897.9 | 927.8 |
| 62.5° | 9808.5 | 9329.6 | 7414.1 | 1898.4 | 1120.2 | 1124.5 | 1124.5 | 859.4 | 752.5 | 829.5 | 855.1 |
| 65° | *6738.5* | *6439.2* | *5242.0* | *1175.8* | *915.0* | *957.8* | *1021.9* | *833.8* | *662.7* | *752.5* | *778.2* |
| 67.5° | 4429.6 | 4209.9 | 3330.8 | 726.9 | 705.5 | 786.7 | 885.1 | 782.5 | 594.3 | 675.6 | 692.7 |
| 70° | 2402.9 | 2236.2 | 1569.2 | 478.9 | 461.8 | 615.7 | 696.9 | 662.7 | 534.5 | 602.9 | 620.0 |
| 72.5° | 1586.3 | 1449.5 | 902.2 | 337.8 | 337.8 | 483.2 | 487.4 | 543.0 | 478.9 | 534.5 | 551.6 |
| 75° | 1192.9 | 1070.6 | 581.5 | 235.2 | 260.8 | 307.9 | 380.5 | 389.1 | 401.9 | 453.2 | 474.6 |
| 77.5° | 547.3 | 480.6 | 213.8 | 141.1 | 192.4 | 213.8 | 290.7 | 248.0 | 299.3 | 337.8 | 346.3 |
| 80° | 316.4 | 277.1 | 119.7 | 94.1 | 124.0 | 136.8 | 239.4 | 145.4 | 179.6 | 239.4 | 252.3 |
| 82.5° | 132.5 | 118.0 | 59.9 | 64.1 | 77.0 | 81.2 | 132.5 | 102.6 | 115.4 | 158.2 | 153.9 |
| 85° | 38.5 | 38.5 | 38.5 | 42.8 | 47.0 | 47.0 | 77.0 | 72.7 | 68.4 | 72.7 | 72.7 |
| 87.5° | 25.7 | 25.7 | 25.7 | 25.7 | 29.9 | 29.9 | 34.2 | 38.5 | 42.8 | 42.8 | 42.8 |
| 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: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 |
| 2.5° | 2197.7 | 2167.8 | 2129.3 | 2073.7 | 2065.2 | 2035.2 | 2013.9 | 2035.2 | 2056.6 | 2095.1 | 2099.4 |
| 5° | 2035.2 | 1988.2 | 1898.4 | 1830.0 | 1753.0 | 1714.6 | 1710.3 | 1701.7 | 1727.4 | 1783.0 | 1817.2 |
| 7.5° | 1945.4 | 1868.5 | 1706.0 | 1586.3 | 1479.4 | 1440.9 | 1411.0 | 1436.6 | 1432.4 | 1505.0 | 1535.0 |
| 10° | 1924.1 | 1804.3 | 1577.7 | 1398.2 | 1265.6 | 1214.3 | 1184.4 | 1180.1 | 1188.6 | 1231.4 | 1261.3 |
| 12.5° | 2001.0 | 1847.1 | 1526.4 | 1261.3 | 1107.4 | 1051.8 | 1017.6 | 987.7 | 987.7 | 996.2 | 1034.7 |
| 15° | 2172.1 | 1988.2 | 1556.4 | 1197.2 | 1030.4 | 957.8 | 902.2 | 863.7 | 833.8 | 838.0 | 842.3 |
| 17.5° | 2411.5 | 2193.4 | 1633.3 | 1175.8 | 983.4 | 906.4 | 838.0 | 799.6 | 765.4 | 756.8 | 756.8 |
| 20° | 2599.6 | 2390.1 | 1693.2 | 1158.7 | 944.9 | 846.6 | 786.7 | 752.5 | 722.6 | 709.8 | 709.8 |
| 22.5° | 2621.0 | 2471.4 | 1744.5 | 1137.3 | 897.9 | 786.7 | 731.1 | 701.2 | 679.8 | 675.6 | 675.6 |
| 25° | 2479.9 | 2407.2 | 1727.4 | 1111.7 | 850.9 | 731.1 | 688.4 | 662.7 | 641.4 | 637.1 | 641.4 |
| 27.5° | 2244.7 | 2206.3 | 1667.5 | 1077.5 | 812.4 | 688.4 | 649.9 | 628.5 | 607.2 | 602.9 | 607.2 |
| 30° | 2035.2 | 1992.5 | 1564.9 | 1021.9 | 782.5 | 654.2 | 611.4 | 590.0 | 568.7 | 568.7 | 572.9 |
| 32.5° | 1864.2 | 1821.5 | 1462.3 | 957.8 | 744.0 | 615.7 | 577.2 | 555.8 | 534.5 | 534.5 | 543.0 |
| 35° | 1710.3 | 1676.1 | 1381.1 | 893.6 | 705.5 | 581.5 | 538.7 | 521.6 | 504.5 | 500.3 | 508.8 |
| 37.5° | 1577.7 | 1560.6 | 1308.4 | 825.2 | 667.0 | 547.3 | 508.8 | 491.7 | 470.3 | 466.1 | 474.6 |
| 40° | 1449.5 | 1440.9 | 1227.1 | 765.4 | 620.0 | 513.1 | 474.6 | 457.5 | 431.8 | 431.8 | 440.4 |
| 42.5° | 1329.7 | 1325.5 | 1154.4 | 726.9 | 577.2 | 478.9 | 436.1 | 419.0 | 397.6 | 397.6 | 406.2 |
| 45° | 1235.7 | 1231.4 | 1086.0 | 705.5 | 534.5 | 440.4 | 401.9 | 380.5 | 363.4 | 367.7 | 376.3 |
| 47.5° | 1150.2 | 1141.6 | 1013.3 | 709.8 | 513.1 | 414.7 | 363.4 | 342.1 | 329.2 | 337.8 | 350.6 |
| 50° | 1081.8 | 1073.2 | 962.0 | 714.0 | 478.9 | 380.5 | 333.5 | 312.1 | 303.6 | 316.4 | 329.2 |
| 52.5° | 1039.0 | 1030.4 | 910.7 | 688.4 | 436.1 | 354.9 | 303.6 | 290.7 | 290.7 | 303.6 | 312.1 |
| 55° | 996.2 | 987.7 | 825.2 | 632.8 | 389.1 | 329.2 | 282.2 | 273.6 | 273.6 | 286.5 | 295.0 |
| 57.5° | 970.6 | 953.5 | 735.4 | 568.7 | 350.6 | 299.3 | 260.8 | 260.8 | 260.8 | 265.1 | 269.4 |
| 60° | 932.1 | 889.3 | 641.4 | 487.4 | 320.7 | 269.4 | 243.7 | 239.4 | 239.4 | 235.2 | 239.4 |
| 62.5° | 850.9 | 778.2 | 538.7 | 414.7 | 286.5 | 243.7 | 222.3 | 218.1 | 205.2 | 192.4 | 196.7 |
| 65° | *769.6* | *658.5* | *427.6* | *346.3* | *248.0* | *209.5* | *196.7* | *192.4* | *171.0* | *153.9* | *158.2* |
| 67.5° | 667.0 | 525.9 | 320.7 | 290.7 | 213.8 | 179.6 | 166.8 | 166.8 | 153.9 | 141.1 | 141.1 |
| 70° | 594.3 | 410.5 | 269.4 | 218.1 | 171.0 | 141.1 | 141.1 | 149.6 | 136.8 | 119.7 | 119.7 |
| 72.5° | 525.9 | 333.5 | 218.1 | 175.3 | 132.5 | 111.2 | 119.7 | 124.0 | 111.2 | 98.3 | 98.3 |
| 75° | 448.9 | 260.8 | 171.0 | 136.8 | 98.3 | 85.5 | 89.8 | 98.3 | 89.8 | 77.0 | 81.2 |
| 77.5° | 325.0 | 179.6 | 115.4 | 89.8 | 72.7 | 64.1 | 68.4 | 68.4 | 64.1 | 59.9 | 59.9 |
| 80° | 226.6 | 119.7 | 77.0 | 59.9 | 51.3 | 47.0 | 47.0 | 42.8 | 42.8 | 47.0 | 47.0 |
| 82.5° | 136.8 | 85.5 | 55.6 | 47.0 | 38.5 | 29.9 | 29.9 | 34.2 | 34.2 | 38.5 | 38.5 |
| 85° | 59.9 | 51.3 | 38.5 | 34.2 | 25.7 | 21.4 | 25.7 | 25.7 | 29.9 | 34.2 | 34.2 |
| 87.5° | 38.5 | 38.5 | 29.9 | 25.7 | 21.4 | 17.1 | 17.1 | 21.4 | 21.4 | 25.7 | 29.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 |
| 2.5° | 2116.5 | 2159.2 | 2210.5 | 2283.2 | 2347.4 | 2424.3 | 2501.3 | 2574.0 | 2642.4 | 2650.9 | 2680.9 |
| 5° | 1842.8 | 1924.1 | 2026.7 | 2146.4 | 2291.8 | 2445.7 | 2595.4 | 2753.6 | 2881.8 | 2928.9 | 2997.3 |
| 7.5° | 1560.6 | 1663.3 | 1812.9 | 1996.8 | 2202.0 | 2432.9 | 2663.8 | 2886.1 | 3078.5 | 3168.3 | 3258.1 |
| 10° | 1291.3 | 1389.6 | 1573.5 | 1795.8 | 2060.9 | 2373.0 | 2680.9 | 2980.2 | 3215.3 | 3317.9 | 3403.5 |
| 12.5° | 1047.5 | 1145.9 | 1295.5 | 1552.1 | 1872.8 | 2249.0 | 2655.2 | 3014.4 | 3275.2 | 3382.1 | 3463.3 |
| 15° | 855.1 | 936.4 | 1077.5 | 1316.9 | 1654.7 | 2078.0 | 2565.4 | 2988.7 | 3288.0 | 3390.6 | 3450.5 |
| 17.5° | 752.5 | 773.9 | 863.7 | 1081.8 | 1449.5 | 1924.1 | 2450.0 | 2954.5 | 3296.6 | 3390.6 | 3424.8 |
| 20° | 709.8 | 709.8 | 726.9 | 842.3 | 1201.5 | 1761.6 | 2364.5 | 2933.1 | 3309.4 | 3403.5 | 3399.2 |
| 22.5° | 671.3 | 679.8 | 679.8 | 705.5 | 915.0 | 1535.0 | 2274.7 | 2924.6 | 3347.9 | 3420.6 | 3360.7 |
| 25° | 637.1 | 649.9 | 649.9 | 658.5 | 718.3 | 1265.6 | 2163.5 | 2941.7 | 3416.3 | 3454.8 | 3335.1 |
| 27.5° | 607.2 | 620.0 | 620.0 | 628.5 | 641.4 | 940.7 | 1979.7 | 2946.0 | 3493.3 | 3497.5 | 3300.8 |
| 30° | 577.2 | 590.0 | 598.6 | 598.6 | 607.2 | 692.7 | 1748.8 | 2920.3 | 3578.8 | 3553.1 | 3296.6 |
| 32.5° | 543.0 | 560.1 | 564.4 | 572.9 | 577.2 | 602.9 | 1449.5 | 2877.6 | 3685.7 | 3630.1 | 3300.8 |
| 35° | 513.1 | 534.5 | 538.7 | 538.7 | 547.3 | 572.9 | 1158.7 | 2830.5 | 3831.0 | 3732.7 | 3317.9 |
| 37.5° | 483.2 | 500.3 | 504.5 | 508.8 | 517.4 | 543.0 | 919.3 | 2762.1 | 3955.0 | 3861.0 | 3403.5 |
| 40° | 448.9 | 470.3 | 474.6 | 478.9 | 487.4 | 513.1 | 791.0 | 2676.6 | 4143.2 | 4074.7 | 3531.7 |
| 42.5° | 414.7 | 436.1 | 444.7 | 448.9 | 453.2 | 487.4 | 722.6 | 2616.7 | 4446.7 | 4374.0 | 3792.6 |
| 45° | 384.8 | 406.2 | 414.7 | 414.7 | 423.3 | 470.3 | 662.7 | 2749.3 | 4865.8 | 4831.5 | 4143.2 |
| 47.5° | 359.2 | 380.5 | 384.8 | 384.8 | 389.1 | 444.7 | 611.4 | 3104.2 | 5507.1 | 5417.3 | 4690.5 |
| 50° | 337.8 | 354.9 | 363.4 | 354.9 | 359.2 | 423.3 | 641.4 | 3689.9 | 6328.0 | 6358.0 | 5494.3 |
| 52.5° | 320.7 | 337.8 | 342.1 | 325.0 | 325.0 | 393.4 | 679.8 | 4168.8 | 7375.6 | 7649.2 | 6768.4 |
| 55° | 299.3 | 316.4 | 320.7 | 299.3 | 299.3 | 346.3 | 590.0 | 4198.7 | 8568.5 | 9449.3 | 8427.4 |
| 57.5° | 277.9 | 295.0 | 295.0 | 277.9 | 273.6 | 299.3 | 478.9 | 3724.1 | 9492.1 | 11488.8 | 10697.8 |
| 60° | 252.3 | 269.4 | 265.1 | 256.5 | 248.0 | 273.6 | 440.4 | 2839.1 | 9368.1 | 12818.6 | 13301.7 |
| 62.5° | 205.2 | 230.9 | 239.4 | 235.2 | 218.1 | 248.0 | 410.5 | 1851.4 | 8106.7 | 11664.1 | 13220.5 |
| 65° | *171.0* | *192.4* | *205.2* | *205.2* | *192.4* | *273.6* | *359.2* | *974.9* | *6490.5* | *9898.3* | *11655.6* |
| 67.5° | 149.6 | 171.0 | 179.6 | 175.3 | 166.8 | 243.7 | 226.6 | 470.3 | 4976.9 | 8530.0 | 10432.7 |
| 70° | 132.5 | 149.6 | 158.2 | 145.4 | 136.8 | 196.7 | 162.5 | 277.9 | 3330.8 | 7119.1 | 9291.1 |
| 72.5° | 106.9 | 124.0 | 132.5 | 119.7 | 106.9 | 145.4 | 124.0 | 183.9 | 2167.8 | 6067.2 | 8256.4 |
| 75° | 85.5 | 102.6 | 106.9 | 98.3 | 85.5 | 106.9 | 98.3 | 128.3 | 1415.3 | 5019.7 | 7020.7 |
| 77.5° | 64.1 | 72.7 | 81.2 | 77.0 | 64.1 | 77.0 | 68.4 | 89.8 | 808.1 | 3523.2 | 4925.6 |
| 80° | 51.3 | 55.6 | 55.6 | 55.6 | 51.3 | 47.0 | 47.0 | 59.9 | 363.4 | 1735.9 | 2569.7 |
| 82.5° | 42.8 | 47.0 | 47.0 | 42.8 | 38.5 | 34.2 | 29.9 | 34.2 | 106.9 | 778.2 | 1184.4 |
| 85° | 38.5 | 42.8 | 34.2 | 29.9 | 25.7 | 21.4 | 12.8 | 12.8 | 29.9 | 124.0 | 230.9 |
| 87.5° | 29.9 | 25.7 | 21.4 | 17.1 | 8.6 | 4.3 | 4.3 | 0.0 | 4.3 | 4.3 | 4.3 |
| 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: P1364515
CATALOG NUMBER: GSS-SB4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2407.2 | 2407.2 | 2407.2 | *2407.2* | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 | 2407.2 |
| 2.5° | 2727.9 | 2770.7 | 2800.6 | *2826.2* | 2817.7 | 2796.3 | 2753.6 | 2723.6 | 2716.8 | 2715.1 |
| 5° | 3087.1 | 3155.5 | 3215.3 | *3206.8* | 3215.3 | 3151.2 | 3087.1 | 3010.1 | 2979.3 | 2971.6 |
| 7.5° | 3386.4 | 3471.9 | 3544.6 | *3536.0* | 3510.4 | 3437.7 | 3330.8 | 3215.3 | 3160.6 | 3146.9 |
| 10° | 3548.8 | 3647.2 | 3707.0 | *3685.7* | 3642.9 | 3548.8 | 3441.9 | 3305.1 | 3243.6 | 3228.2 |
| 12.5° | 3578.8 | 3642.9 | 3630.1 | *3621.5* | 3613.0 | 3565.9 | 3484.7 | 3360.7 | 3299.1 | 3283.7 |
| 15° | 3501.8 | 3476.1 | 3403.5 | *3386.4* | 3450.5 | 3510.4 | 3493.3 | 3390.6 | 3332.5 | 3317.9 |
| 17.5° | 3373.5 | 3241.0 | 3108.4 | *3091.3* | 3198.2 | 3365.0 | 3497.5 | 3437.7 | 3382.9 | 3369.3 |
| 20° | 3232.4 | 2984.4 | 2839.1 | *2809.1* | 2941.7 | 3189.7 | 3450.5 | 3484.7 | 3447.1 | 3437.7 |
| 22.5° | 3065.7 | 2774.9 | 2621.0 | *2603.9* | 2702.2 | 2993.0 | 3382.1 | 3536.0 | 3518.9 | 3514.6 |
| 25° | 2920.3 | 2591.1 | 2445.7 | *2420.1* | 2548.3 | 2830.5 | 3313.7 | 3621.5 | 3611.3 | 3608.7 |
| 27.5° | 2800.6 | 2458.5 | 2304.6 | *2287.5* | 2411.5 | 2693.7 | 3228.2 | 3694.2 | 3728.4 | 3737.0 |
| 30° | 2706.5 | 2360.2 | 2206.3 | *2184.9* | 2321.7 | 2599.6 | 3168.3 | 3796.8 | 3861.8 | 3878.1 |
| 32.5° | 2633.8 | 2304.6 | 2159.2 | *2146.4* | 2291.8 | 2561.1 | 3134.1 | 3903.7 | 4037.1 | 4070.5 |
| 35° | 2608.2 | 2321.7 | 2223.4 | *2253.3* | 2364.5 | 2599.6 | 3159.7 | 4079.0 | 4263.7 | 4309.9 |
| 37.5° | 2663.8 | 2509.8 | 2578.3 | *2655.2* | 2698.0 | 2783.5 | 3279.5 | 4361.2 | 4600.7 | 4660.5 |
| 40° | 2843.3 | 3014.4 | 3335.1 | *3484.7* | 3467.6 | 3270.9 | 3553.1 | 4758.9 | 5100.9 | 5186.4 |
| 42.5° | 3300.8 | 3856.7 | 4536.5 | *4788.8* | 4643.4 | 4049.1 | 3989.2 | 5413.0 | 5803.0 | 5900.5 |
| 45° | 3980.7 | 4874.3 | 5990.3 | *6558.9* | 6058.7 | 5036.8 | 4677.6 | 6345.1 | 6721.4 | 6815.5 |
| 47.5° | 4660.5 | 6011.6 | 7786.1 | *8461.6* | 7478.2 | 6015.9 | 5579.8 | 7461.1 | 7799.7 | 7884.4 |
| 50° | 5353.2 | 7268.7 | 9577.6 | *10479.8* | 8893.5 | 7012.2 | 6537.6 | 8837.9 | 9084.2 | 9145.7 |
| 52.5° | 6067.2 | 8393.2 | 11553.0 | *12331.1* | 10372.9 | 7781.8 | 7632.1 | 10338.7 | 10485.7 | 10522.5 |
| 55° | 6862.5 | 9457.9 | 13532.6 | *14161.1* | 11719.7 | 8453.1 | 8914.8 | 11907.8 | 11870.2 | 11860.8 |
| 57.5° | 7922.9 | 10578.1 | 15127.5 | *16004.0* | 12942.6 | 9359.5 | 10629.4 | 13652.3 | 12916.9 | 12733.1 |
| 60° | 9774.3 | 12318.3 | 17111.4 | *18064.9* | 14580.2 | 10685.0 | 11890.7 | 13613.9 | 12300.4 | 11972.0 |
| 62.5° | 11920.7 | 13994.4 | 18907.2 | *19711.0* | 16303.3 | 12001.9 | 10885.9 | 11433.2 | 10133.4 | 9808.5 |
| 65° | *10355.8* | *13699.4* | *18962.8* | *19788.0* | *16367.4* | *11198.1* | *8046.9* | *8106.7* | *7012.2* | *6738.5* |
| 67.5° | 8812.2 | 12143.0 | 17269.6 | *17919.5* | 14601.5 | 9256.9 | 5336.1 | 5289.0 | 4601.5 | 4429.6 |
| 70° | 7845.9 | 10638.0 | 14883.7 | *14323.6* | 12275.6 | 7824.5 | 3544.6 | 2937.4 | 2509.8 | 2402.9 |
| 72.5° | 7050.6 | 8440.2 | 12061.8 | *9872.6* | 10184.7 | 6366.5 | 2253.3 | 2001.0 | 1669.2 | 1586.3 |
| 75° | 6383.6 | 6982.2 | 7525.2 | *6824.0* | 7234.5 | 5246.3 | 1911.2 | 1543.5 | 1263.0 | 1192.9 |
| 77.5° | 5079.5 | 5434.4 | 4455.3 | *4327.0* | 5066.7 | 3732.7 | 949.2 | 649.9 | 567.8 | 547.3 |
| 80° | 3022.9 | 2569.7 | 2526.9 | *2881.8* | 3373.5 | 1936.9 | 581.5 | 359.2 | 325.0 | 316.4 |
| 82.5° | 1830.0 | 927.8 | 1009.1 | *1274.2* | 1795.8 | 880.8 | 346.3 | 153.9 | 136.8 | 132.5 |
| 85° | 307.9 | 252.3 | 389.1 | *372.0* | 350.6 | 188.1 | 94.1 | 42.8 | 39.3 | 38.5 |
| 87.5° | 8.6 | 12.8 | 17.1 | *21.4* | 21.4 | 21.4 | 21.4 | 21.4 | 24.8 | 25.7 |
| 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: SP1-2407-184-1

Test Date: 10/09/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

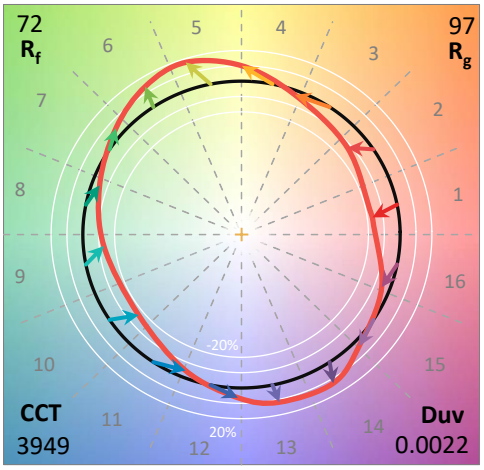
## Test Information

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

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3949 |
| CIE u': | 0.2248 |
| CIE v': | 0.5053 |
| Duv: | 0.0022 |
| CIE x: | 0.3844 |
| CIE y: | 0.3840 |
| CIE z: | 0.2316 |
| Peak Wavelength (nm): | 440 |
| Dominant Wavelength (nm): | 578 |
| Purity: | 30.60026 |
| Rf: | 71.8 |
| Rg: | 96.5 |

| | |
|---|---|
| CRI (Ra): | 70.7 |
| R1: | 68.0 |
| R2: | 76.0 |
| R3: | 84.3 |
| R4: | 72.0 |
| R5: | 68.6 |
| R6: | 68.3 |
| R7: | 77.9 |
| R8: | 50.3 |
| R9: | -36.7 |
| R10: | 45.1 |
| R11: | 70.7 |
| R12: | 47.1 |
| R13: | 68.5 |
| R14: | 91.1 |
| R15: | 58.7 |




## Test Conditions

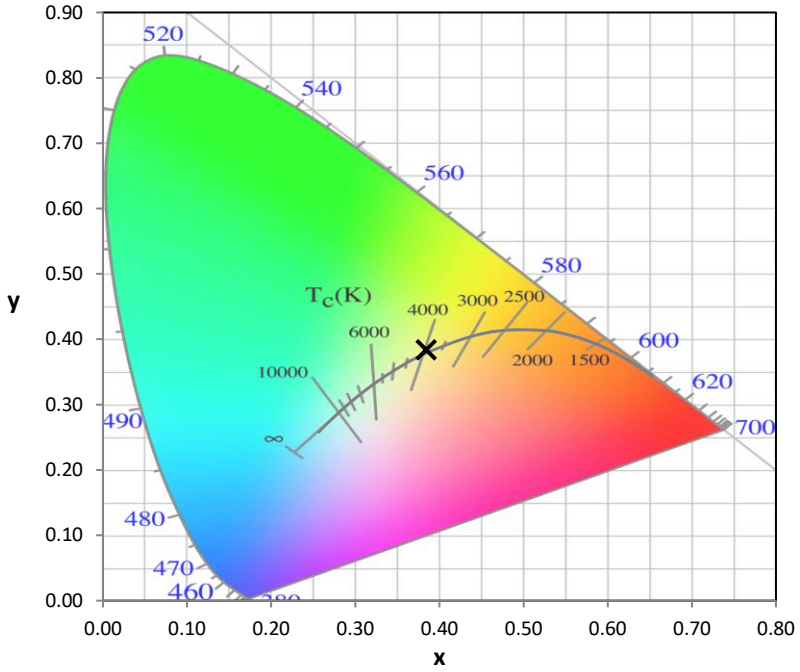
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-1

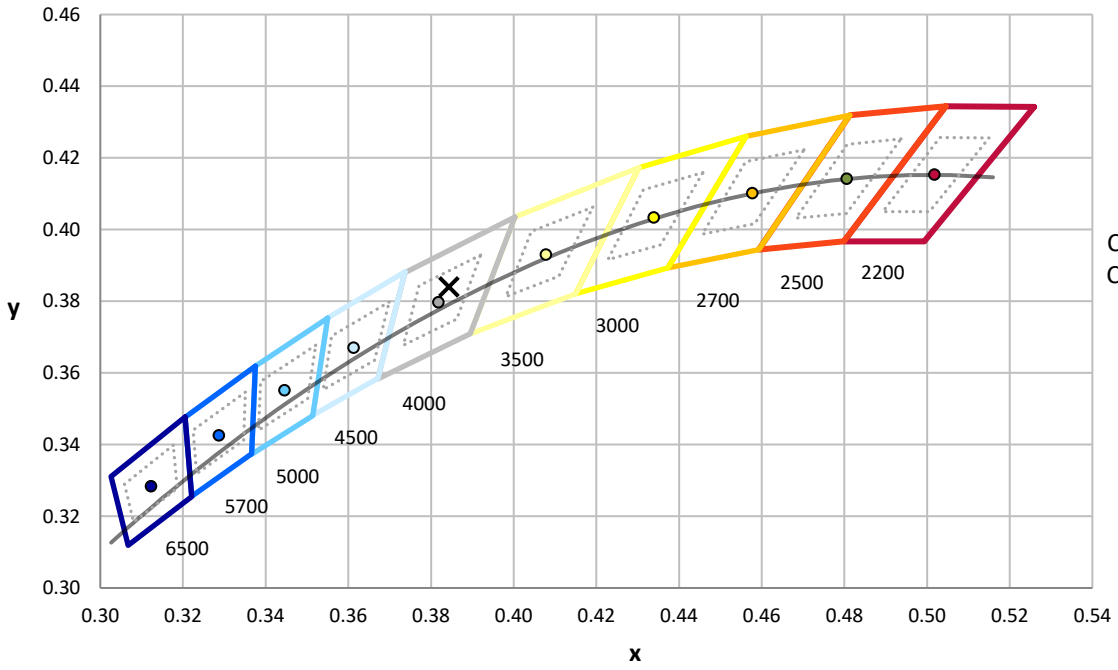
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

REPORT NUMBER: SP1-2407-184-1

## CIE 1931 Chromaticity Diagram




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

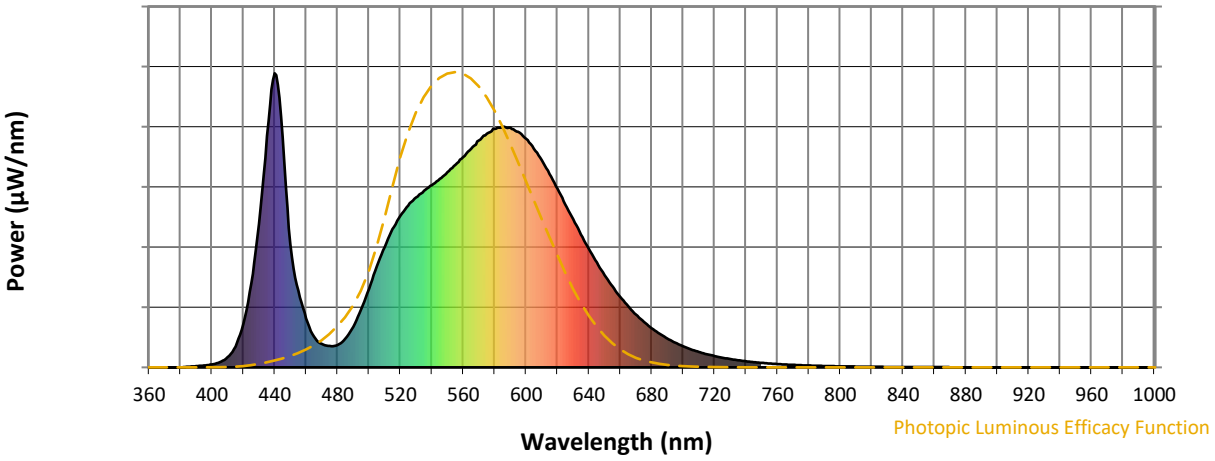



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

## Photopic Flux vs. Wavelength

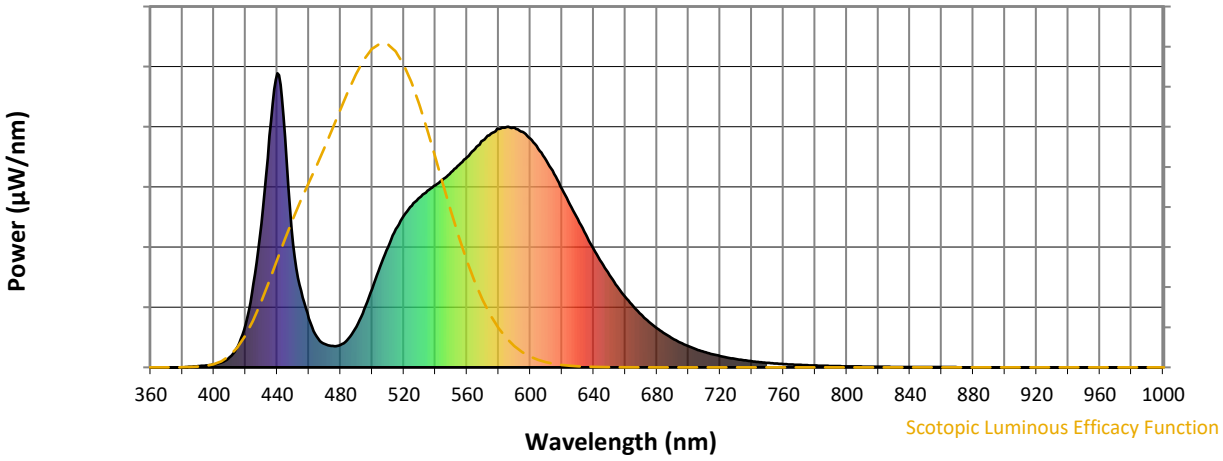



## Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-1

## Scotopic Flux vs. Wavelength

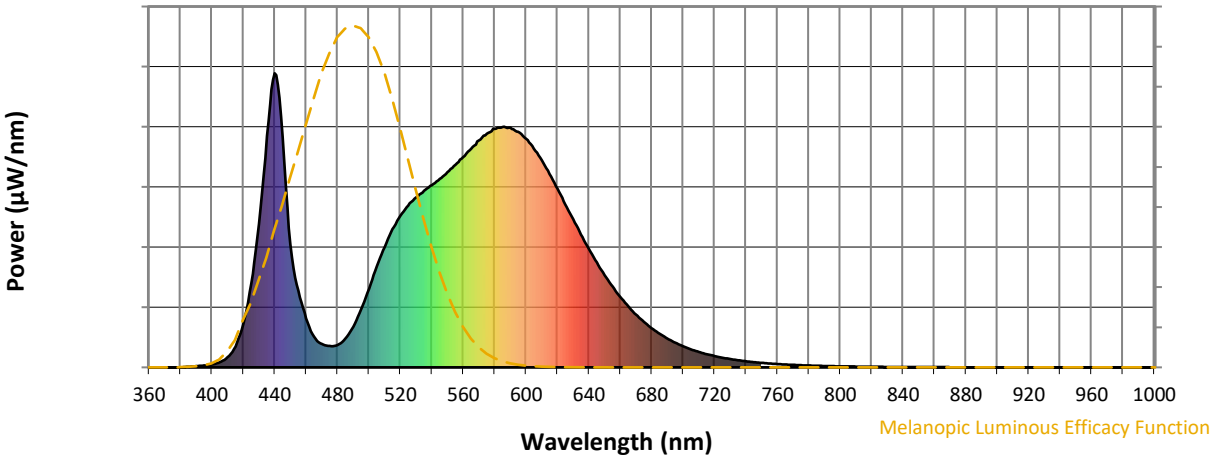



**Scotopic Lumens: NR** **S/P: 1.47**

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

REPORT NUMBER: SP1-2407-184-1

## Melanopic Flux vs. Wavelength




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

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

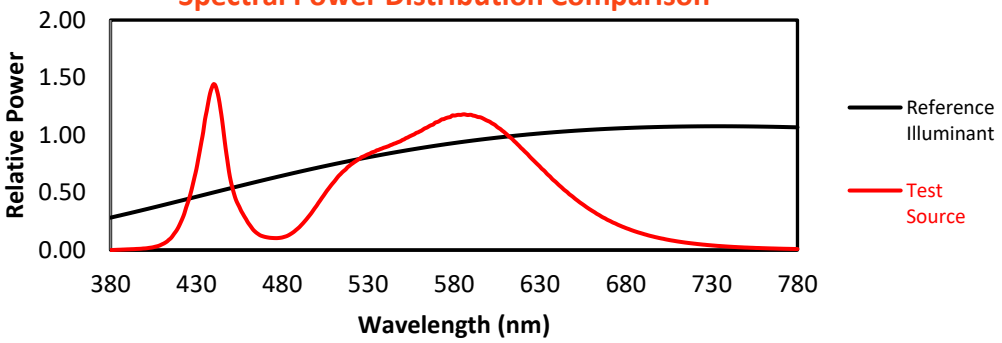
REPORT NUMBER: SP1-2407-184-1

# TM-30-18

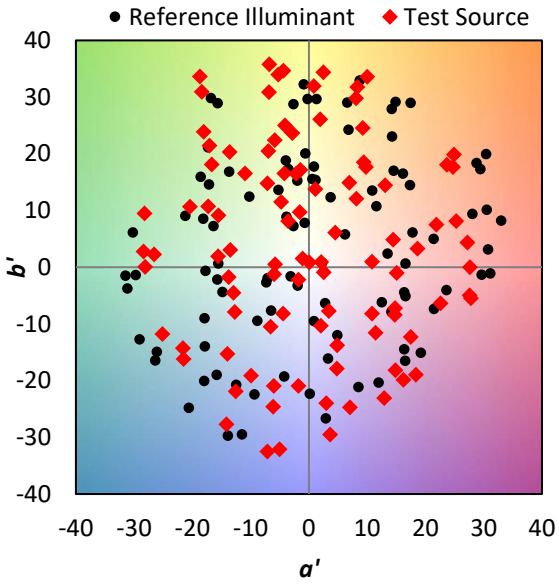
## Summary

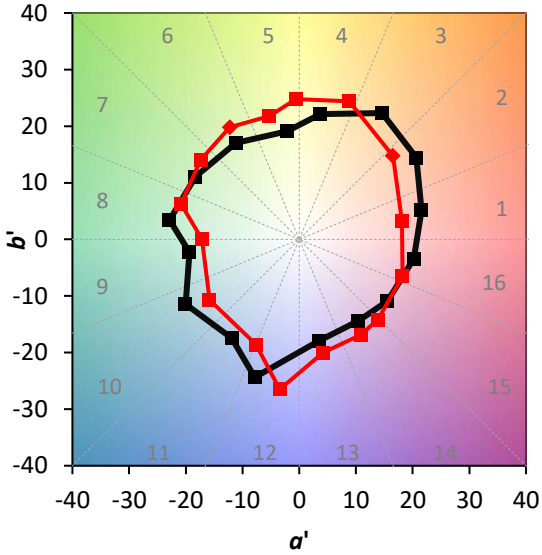
$R_f$ = 71.8
$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

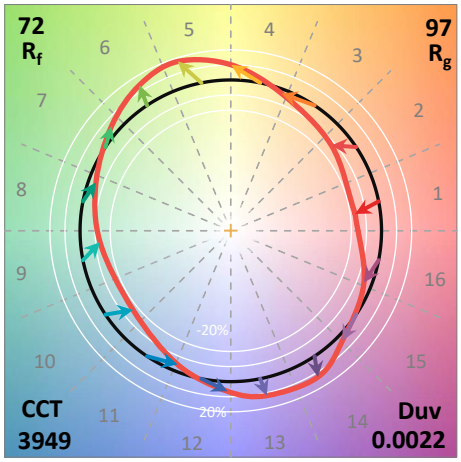
## Spectral Power Distribution Comparison

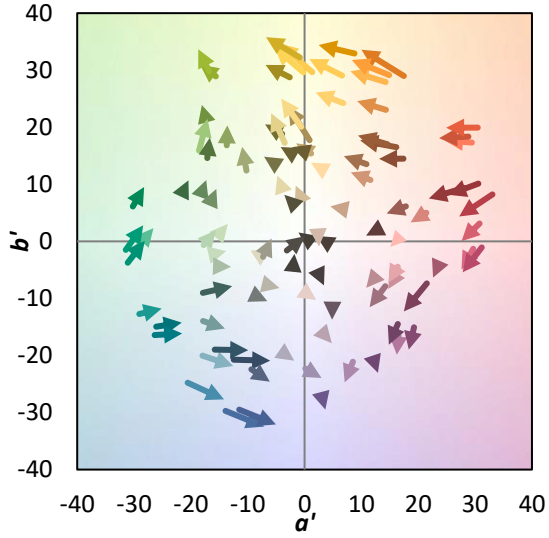



## Color Vector Graphics



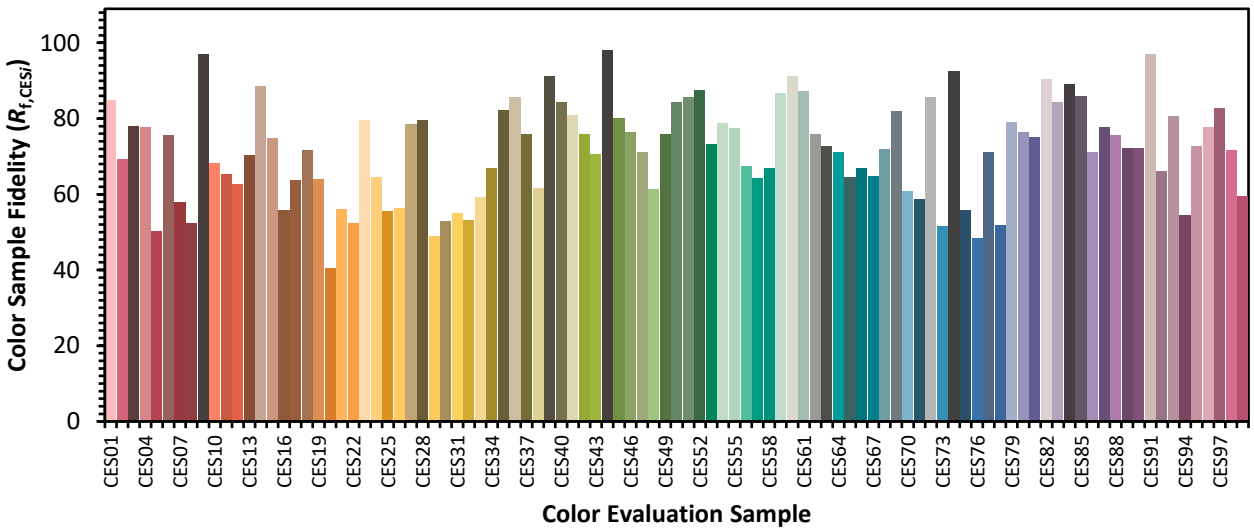



REPORT NUMBER: SP1-2407-184-1

# TM-30-18

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

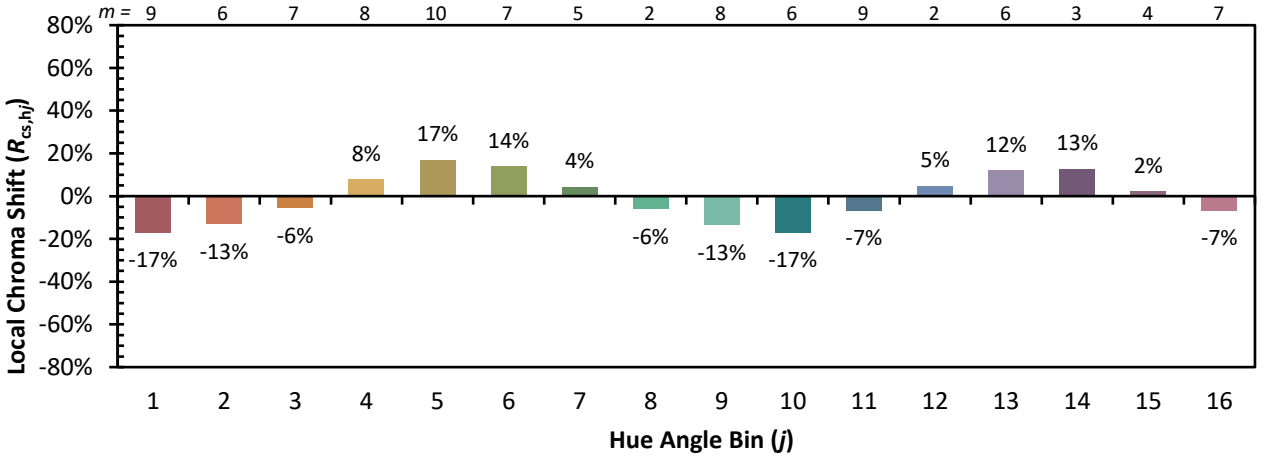
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06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

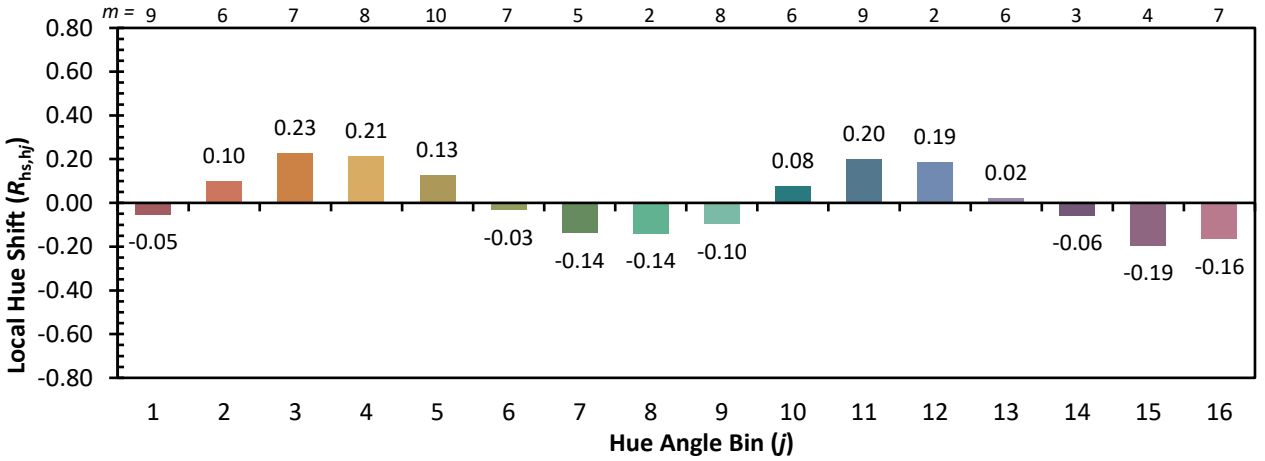


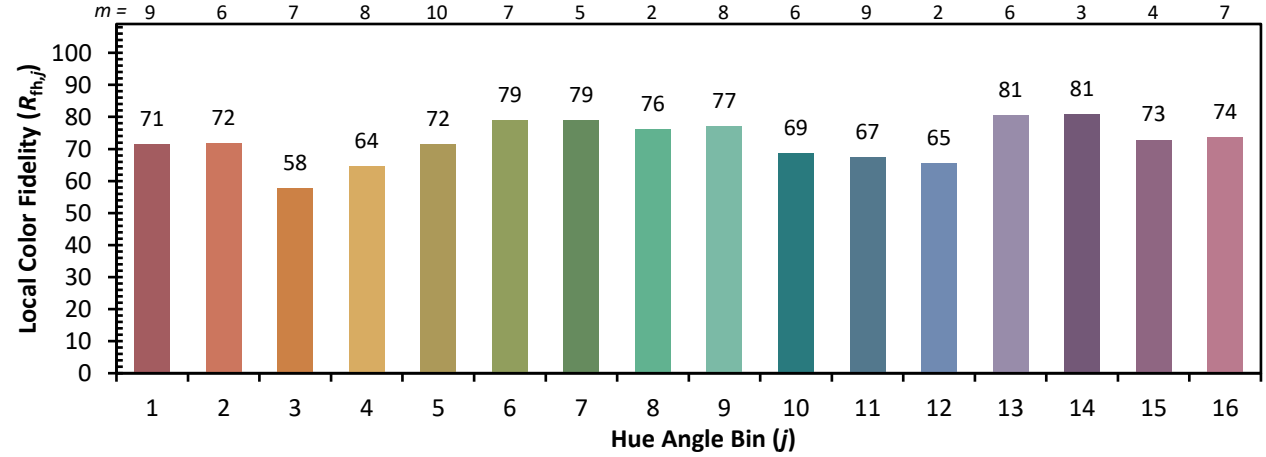
REPORT NUMBER: SP1-2407-184-1

**TM-30-18**

## Color Rendition by Hue-Angle Bin



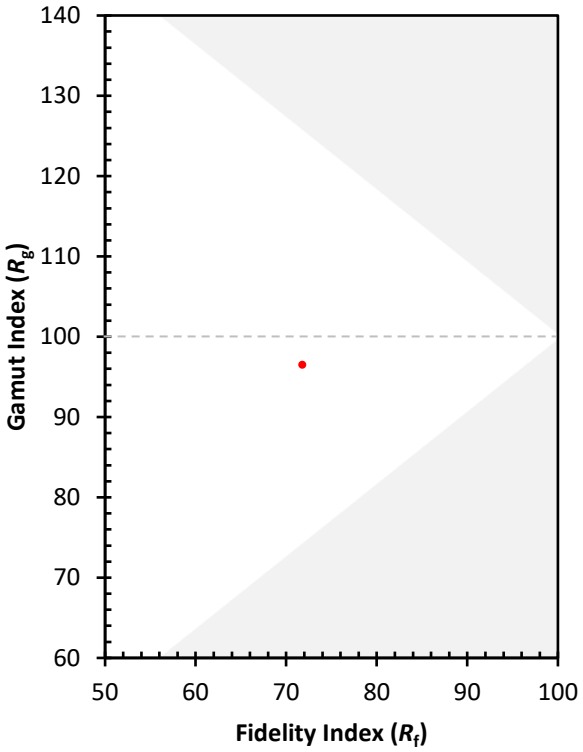



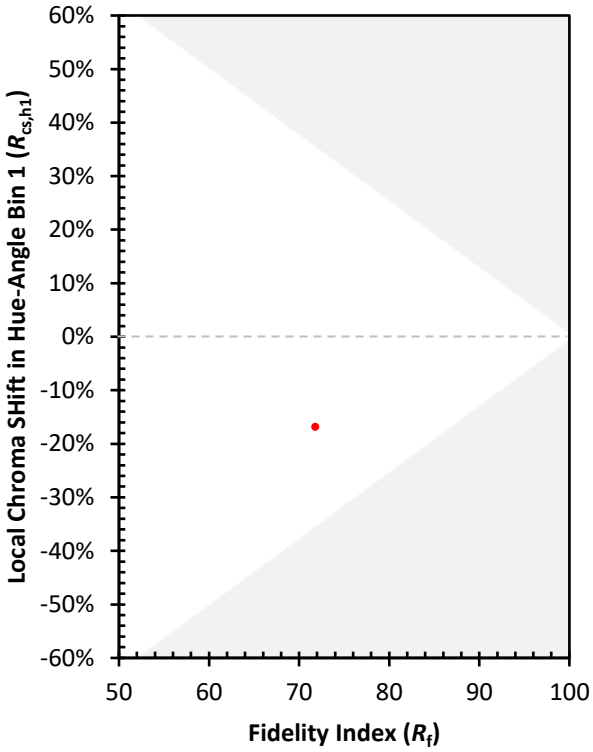



REPORT NUMBER: SP1-2407-184-1

# TM-30-18

## Measure Comparisons




(END OF REPORT)