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: P1365356

Luminaire Tested: **GSS-SB4B-730-U-SLL-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1365356 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4B-730-U-SLL-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 70CRI 3000K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD |
| Light Source: | (104) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 16589.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 112.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B2 - U0 - G3 |

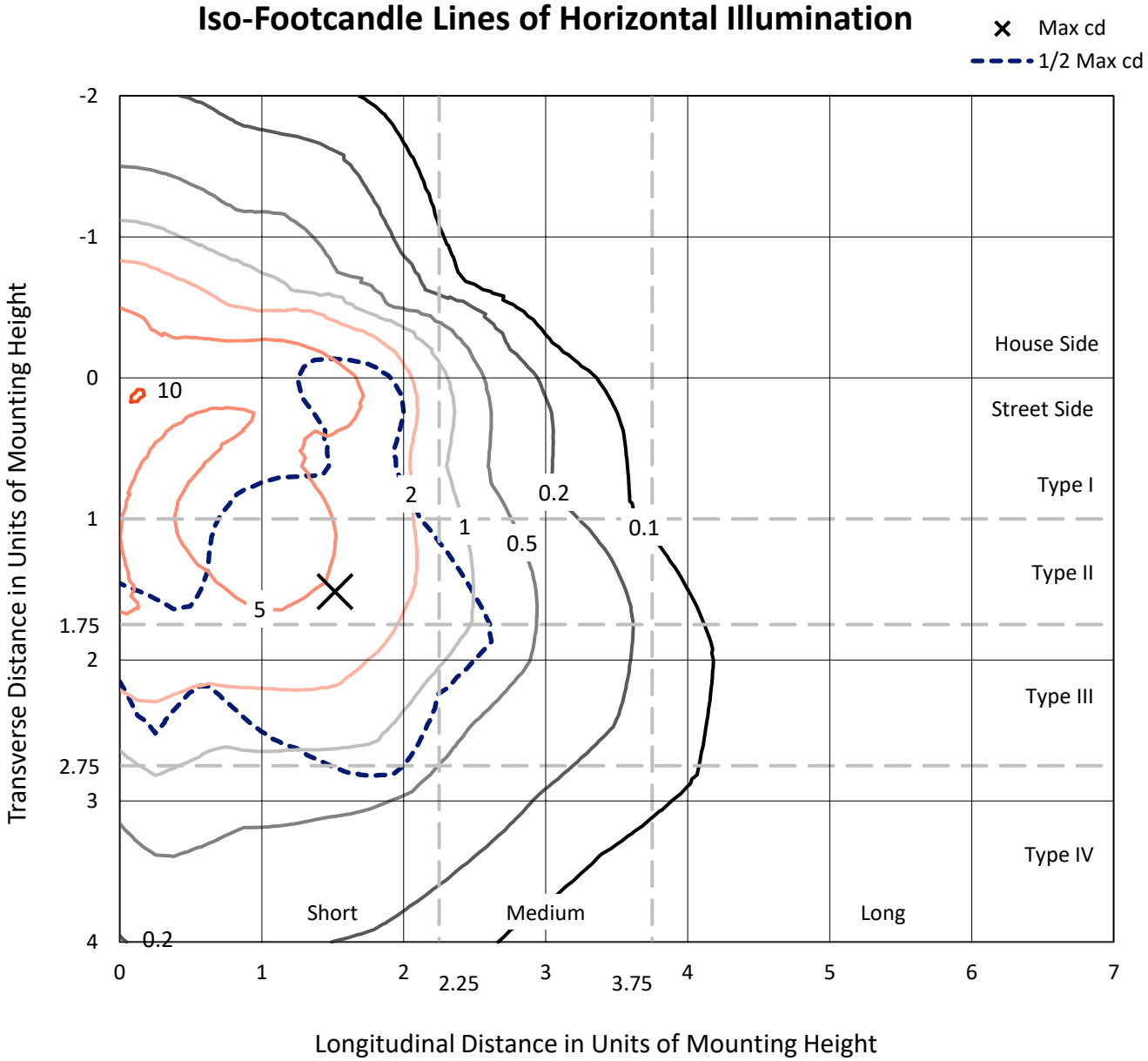
| | |
|---|---|
| Input Watts (W): | 148 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



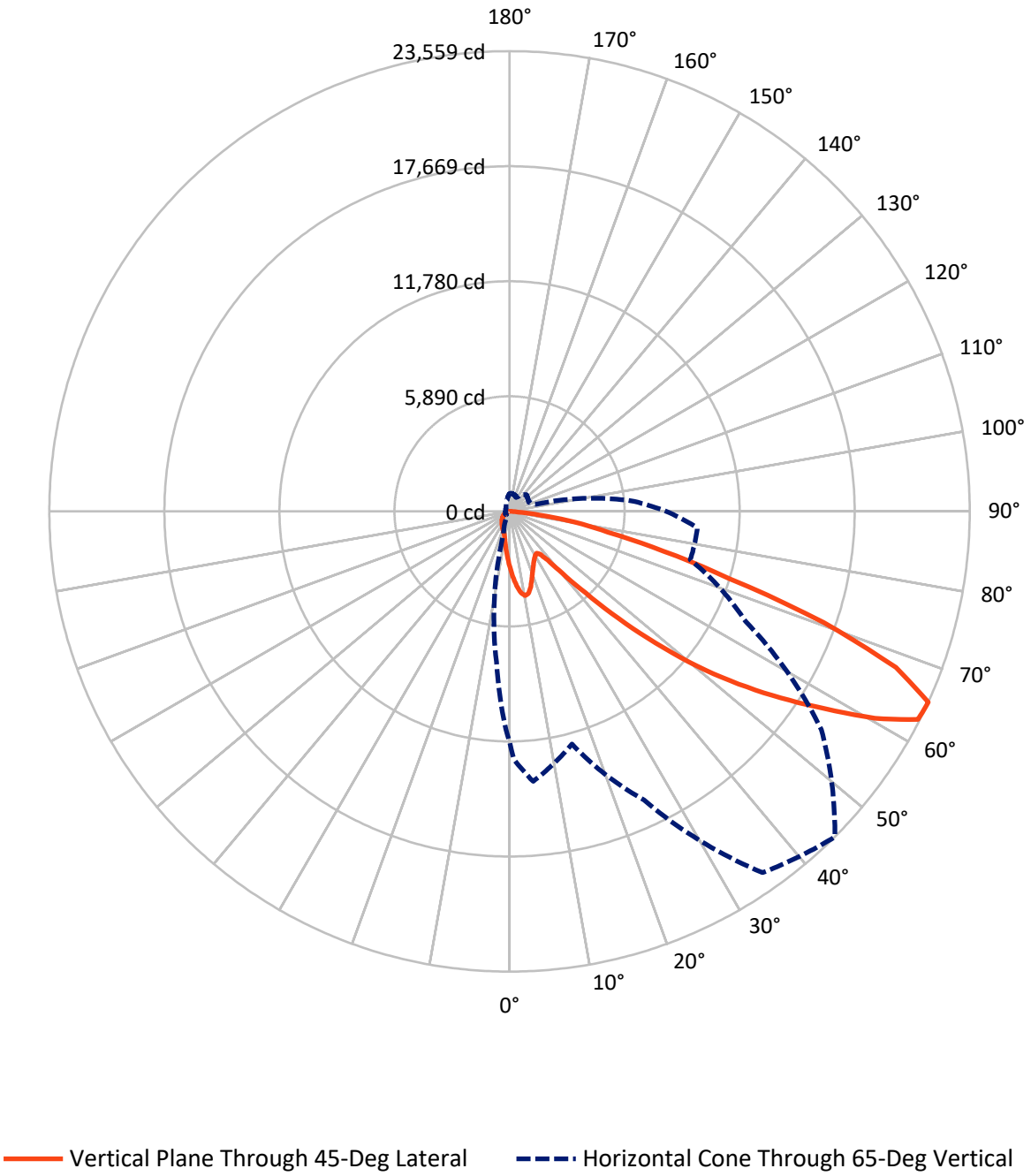

Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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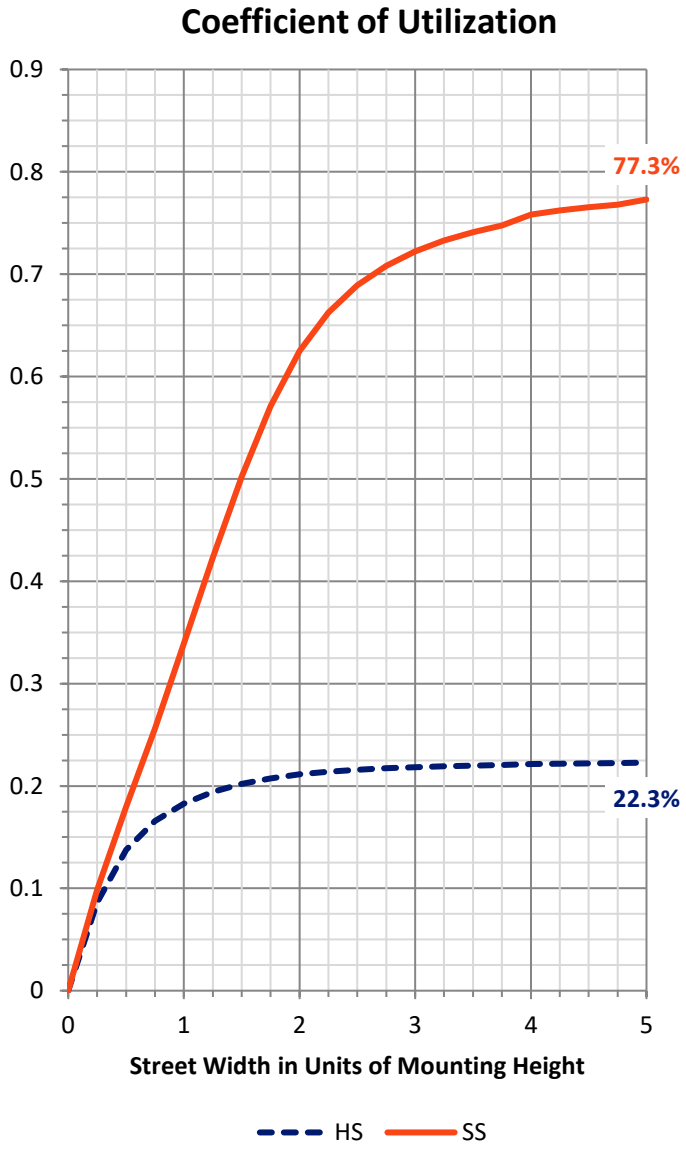
REPORT NUMBER: P1365356
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3731.7 | 0.0 | 3731.7 |
| | % Fixture | 22.5 | 0.0 | 22.5 |
| **Street Side** | Lumens | 12857.6 | 0.0 | 12857.6 |
| | % Fixture | 77.5 | 0.0 | 77.5 |
| **Total** | Lumens | 16589.3 | 0.0 | 16589.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 275.4 | 1.7 |
| 10°-20° | 761.8 | 4.6 |
| 20°-30° | 1091.1 | 6.6 |
| 30°-40° | 1368.7 | 8.3 |
| 40°-50° | 2248.3 | 13.6 |
| 50°-60° | 4059.3 | 24.5 |
| 60°-70° | 4506.5 | 27.2 |
| 70°-80° | 2037.0 | 12.3 |
| 80°-90° | 241.1 | 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° | 16589.3 | 100.0 |
| 0°-180° | 16589.3 | 100.0 |



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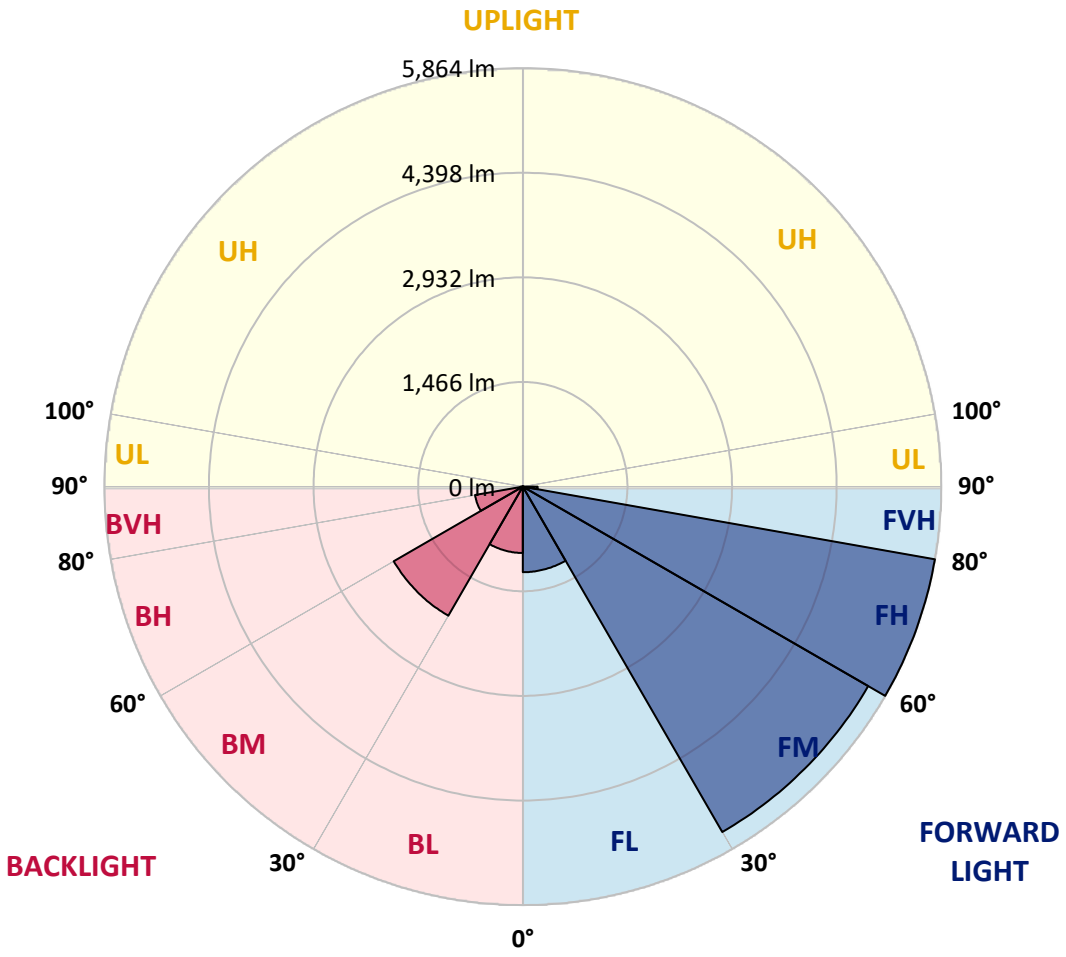
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1198.4 | 7.2 | | | |
| FM | (30°-60°) | 5588.3 | 33.7 | | | |
| FH | (60°-80°) | 5863.8 | 35.3 | | | G3/7500 |
| FVH | (80°-90°) | 207.0 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 929.9 | 5.6 | B2/1000 | | |
| BM | (30°-60°) | 2088.0 | 12.6 | B2/2500 | | |
| BH | (60°-80°) | 679.7 | 4.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 34.1 | 0.2 | | | 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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | *2866.0* | 2866.0 | 2866.0 | 2866.0 | 2866.0 |
| 2.5° | 3156.2 | 3196.9 | 3191.8 | 3247.8 | 3298.7 | 3334.3 | *3364.9* | 3354.7 | 3329.3 | 3278.3 | 3242.7 |
| 5° | 3487.1 | 3517.6 | 3568.5 | 3675.4 | 3756.9 | 3828.1 | *3817.9* | 3828.1 | 3751.8 | 3675.4 | 3583.8 |
| 7.5° | 3772.1 | 3807.8 | 3879.0 | 4031.8 | 4133.6 | 4220.1 | *4209.9* | 4179.4 | 4092.8 | 3965.6 | 3828.1 |
| 10° | 3950.3 | 3975.8 | 4052.1 | 4225.2 | 4342.3 | 4413.5 | *4388.1* | 4337.2 | 4225.2 | 4097.9 | 3935.0 |
| 12.5° | 4026.7 | 4057.2 | 4123.4 | 4260.8 | 4337.2 | 4321.9 | *4311.7* | 4301.6 | 4245.6 | 4148.8 | 4001.2 |
| 15° | 4036.8 | 4057.2 | 4108.1 | 4169.2 | 4138.7 | 4052.1 | *4031.8* | 4108.1 | 4179.4 | 4159.0 | 4036.8 |
| 17.5° | 4036.8 | 4067.4 | 4077.6 | 4016.5 | 3858.7 | 3700.9 | *3680.5* | 3807.8 | 4006.3 | 4164.1 | 4092.8 |
| 20° | 4052.1 | 4067.4 | 4047.0 | 3848.5 | 3553.2 | 3380.2 | *3344.5* | 3502.3 | 3797.6 | 4108.1 | 4148.8 |
| 22.5° | 4072.5 | 4087.7 | 4001.2 | 3650.0 | 3303.8 | 3120.5 | *3100.2* | 3217.3 | 3563.4 | 4026.7 | 4209.9 |
| 25° | 4113.2 | 4103.0 | 3970.7 | 3476.9 | 3084.9 | 2911.8 | *2881.3* | 3034.0 | 3370.0 | 3945.2 | 4311.7 |
| 27.5° | 4164.1 | 4118.3 | 3929.9 | 3334.3 | 2927.1 | 2743.8 | *2723.5* | 2871.1 | 3207.1 | 3843.4 | 4398.3 |
| 30° | 4230.3 | 4184.5 | 3924.9 | 3222.3 | 2810.0 | 2626.7 | *2601.3* | 2764.2 | 3095.1 | 3772.1 | 4520.5 |
| 32.5° | 4321.9 | 4255.7 | 3929.9 | 3135.8 | 2743.8 | 2570.8 | *2555.5* | 2728.6 | 3049.3 | 3731.4 | 4647.7 |
| 35° | 4444.1 | 4347.4 | 3950.3 | 3105.3 | 2764.2 | 2647.1 | *2682.7* | 2815.1 | 3095.1 | 3762.0 | 4856.4 |
| 37.5° | 4596.8 | 4505.2 | 4052.1 | 3171.4 | 2988.2 | 3069.6 | *3161.3* | 3212.2 | 3314.0 | 3904.5 | 5192.4 |
| 40° | 4851.3 | 4724.1 | 4204.8 | 3385.2 | 3588.9 | 3970.7 | *4148.8* | 4128.5 | 3894.3 | 4230.3 | 5665.8 |
| 42.5° | 5207.7 | 5090.6 | 4515.4 | 3929.9 | 4591.7 | 5401.1 | *5701.5* | 5528.4 | 4820.8 | 4749.5 | 6444.7 |
| 45° | 5752.4 | 5558.9 | 4932.8 | 4739.3 | 5803.3 | 7131.9 | *7809.0* | 7213.4 | 5996.7 | 5569.1 | 7554.4 |
| 47.5° | 6449.8 | 6256.3 | 5584.4 | 5548.8 | 7157.4 | 9270.0 | *10074.3* | 8903.5 | 7162.5 | 6643.2 | 8883.1 |
| 50° | 7569.7 | 7355.9 | 6541.4 | 6373.4 | 8654.0 | 11402.9 | *12477.1* | 10588.4 | 8348.6 | 7783.5 | 10522.3 |
| 52.5° | 9107.1 | 8964.5 | 8058.4 | 7223.6 | 9992.8 | 13754.8 | *14681.3* | 12349.8 | 9264.9 | 9086.7 | 12309.1 |
| 55° | 11250.2 | 11112.8 | 10033.6 | 8170.4 | 11260.4 | 16111.7 | *16860.1* | 13953.3 | 10064.1 | 10613.9 | 14177.3 |
| 57.5° | 13678.4 | 13907.5 | 12736.7 | 9432.9 | 12594.1 | 18010.5 | *19054.1* | 15409.2 | 11143.3 | 12655.2 | 16254.3 |
| 60° | 15261.6 | 15984.5 | 15836.8 | 11637.1 | 14666.0 | 20372.6 | *21507.8* | 17358.9 | 12721.4 | 14157.0 | 16208.5 |
| 62.5° | 13887.2 | 14610.0 | 15740.1 | 14192.6 | 16661.5 | 22510.6 | *23467.7* | 19410.4 | 14289.3 | 12960.7 | 13612.3 |
| 65° | *11784.7* | *12685.8* | *13877.0* | *12329.4* | *16310.3* | *22576.8* | *23559.3* | *19486.8* | *13332.3* | *9580.5* | *9651.8* |
| 67.5° | 10155.7 | 10955.0 | 12421.1 | 10491.7 | 14457.3 | 20560.9 | *21334.7* | 17384.4 | 11021.1 | 6353.1 | 6297.1 |
| 70° | 8475.8 | 9208.9 | 11061.9 | 9341.2 | 12665.4 | 17720.4 | *17053.5* | 14615.1 | 9315.8 | 4220.1 | 3497.2 |
| 72.5° | 7223.6 | 7900.6 | 9829.9 | 8394.4 | 10048.8 | 14360.6 | *11754.2* | 12125.8 | 7579.9 | 2682.7 | 2382.4 |
| 75° | 5976.4 | 6597.4 | 8358.8 | 7600.3 | 8312.9 | 8959.5 | *8124.6* | 8613.3 | 6246.2 | 2275.5 | 1837.7 |
| 77.5° | 4194.7 | 4581.5 | 5864.4 | 6047.6 | 6470.1 | 5304.4 | *5151.7* | 6032.4 | 4444.1 | 1130.1 | 773.8 |
| 80° | 2066.8 | 2306.0 | 3059.4 | 3599.1 | 3059.4 | 3008.5 | *3431.1* | 4016.5 | 2306.0 | 692.3 | 427.6 |
| 82.5° | 926.5 | 1099.6 | 1410.1 | 2178.8 | 1104.7 | 1201.4 | *1517.0* | 2138.1 | 1048.7 | 412.3 | 183.3 |
| 85° | 147.6 | 162.9 | 274.9 | 366.5 | 300.3 | 463.2 | *442.9* | 417.4 | 224.0 | 112.0 | 50.9 |
| 87.5° | 5.1 | 5.1 | 5.1 | 10.2 | 15.3 | 20.4 | *25.5* | 25.5 | 25.5 | 25.5 | 25.5 |
| 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° | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 |
| 2.5° | 3232.5 | 3217.3 | 3140.9 | 3064.5 | 2998.4 | 2932.2 | 2866.0 | 2774.4 | 2703.1 | 2642.0 | 2616.6 |
| 5° | 3538.0 | 3456.5 | 3339.4 | 3212.2 | 3100.2 | 2972.9 | 2850.7 | 2713.3 | 2601.3 | 2484.2 | 2423.1 |
| 7.5° | 3746.7 | 3665.2 | 3471.8 | 3278.3 | 3140.9 | 3003.5 | 2876.2 | 2723.5 | 2575.8 | 2407.9 | 2316.2 |
| 10° | 3843.4 | 3751.8 | 3543.1 | 3319.1 | 3151.1 | 3013.6 | 2896.6 | 2769.3 | 2621.7 | 2412.9 | 2290.8 |
| 12.5° | 3909.6 | 3797.6 | 3558.3 | 3329.3 | 3161.3 | 3018.7 | 2906.7 | 2815.1 | 2728.6 | 2524.9 | 2382.4 |
| 15° | 3950.3 | 3848.5 | 3599.1 | 3334.3 | 3146.0 | 2978.0 | 2871.1 | 2840.6 | 2855.8 | 2759.1 | 2586.0 |
| 17.5° | 4011.4 | 3914.7 | 3650.0 | 3364.9 | 3120.5 | 2891.5 | 2774.4 | 2840.6 | 2978.0 | 3008.5 | 2871.1 |
| 20° | 4092.8 | 3991.0 | 3716.1 | 3390.3 | 3044.2 | 2728.6 | 2616.6 | 2784.6 | 3013.6 | 3171.4 | 3095.1 |
| 22.5° | 4184.5 | 4103.0 | 3792.5 | 3415.8 | 2932.2 | 2514.8 | 2463.8 | 2667.5 | 2911.8 | 3115.4 | 3120.5 |
| 25° | 4296.5 | 4220.1 | 3899.4 | 3441.2 | 2779.5 | 2331.5 | 2341.7 | 2514.8 | 2708.2 | 2916.9 | 2952.5 |
| 27.5° | 4449.2 | 4377.9 | 4031.8 | 3471.8 | 2621.7 | 2183.9 | 2234.8 | 2362.0 | 2494.4 | 2621.7 | 2672.6 |
| 30° | 4617.2 | 4561.2 | 4189.6 | 3532.9 | 2474.0 | 2097.3 | 2127.9 | 2214.4 | 2321.3 | 2397.7 | 2423.1 |
| 32.5° | 4846.2 | 4754.6 | 4337.2 | 3527.8 | 2362.0 | 2056.6 | 2026.1 | 2051.5 | 2138.1 | 2214.4 | 2219.5 |
| 35° | 5131.3 | 5060.1 | 4489.9 | 3436.2 | 2260.2 | 2036.2 | 1929.3 | 1914.1 | 1965.0 | 2041.3 | 2036.2 |
| 37.5° | 5548.8 | 5487.7 | 4739.3 | 3293.6 | 2133.0 | 1985.3 | 1827.5 | 1776.6 | 1812.3 | 1863.2 | 1878.4 |
| 40° | 6174.9 | 6017.1 | 5024.4 | 3135.8 | 2005.7 | 1893.7 | 1705.4 | 1634.1 | 1659.5 | 1715.5 | 1725.7 |
| 42.5° | 7025.0 | 6724.7 | 5406.2 | 2922.0 | 1883.5 | 1756.3 | 1583.2 | 1506.8 | 1522.1 | 1573.0 | 1583.2 |
| 45° | 8114.4 | 7661.3 | 5930.5 | 2698.0 | 1786.8 | 1613.7 | 1455.9 | 1374.5 | 1389.7 | 1445.7 | 1471.2 |
| 47.5° | 9387.1 | 8766.0 | 6480.3 | 2458.8 | 1730.8 | 1501.7 | 1328.6 | 1267.6 | 1303.2 | 1359.2 | 1369.4 |
| 50° | 10888.8 | 10262.6 | 6831.6 | 2265.3 | 1695.2 | 1415.2 | 1211.6 | 1186.1 | 1231.9 | 1277.7 | 1287.9 |
| 52.5° | 12528.0 | 11637.1 | 6607.6 | 2107.5 | 1664.6 | 1384.6 | 1130.1 | 1140.3 | 1175.9 | 1221.7 | 1237.0 |
| 55° | 14121.3 | 12141.1 | 5864.4 | 1903.9 | 1629.0 | 1405.0 | 1069.0 | 1094.5 | 1140.3 | 1175.9 | 1186.1 |
| 57.5° | 15159.8 | 11718.6 | 4724.1 | 1690.1 | 1588.3 | 1420.3 | 1038.5 | 1058.8 | 1109.8 | 1150.5 | 1155.6 |
| 60° | 14253.7 | 10792.1 | 3538.0 | 1506.8 | 1501.7 | 1394.8 | 1028.3 | 997.8 | 1069.0 | 1104.7 | 1109.8 |
| 62.5° | 11677.8 | 8827.1 | 2260.2 | 1333.7 | 1338.8 | 1338.8 | 1023.2 | 895.9 | 987.6 | 1018.1 | 1013.0 |
| 65° | *8022.8* | *6241.1* | *1399.9* | *1089.4* | *1140.3* | *1216.7* | *992.7* | *789.0* | *895.9* | *926.5* | *916.3* |
| 67.5° | 5273.9 | 3965.6 | 865.4 | 839.9 | 936.7 | 1053.8 | 931.6 | 707.6 | 804.3 | 824.7 | 794.1 |
| 70° | 2860.9 | 1868.2 | 570.1 | 549.8 | 733.0 | 829.8 | 789.0 | 636.3 | 717.8 | 738.1 | 707.6 |
| 72.5° | 1888.6 | 1074.1 | 402.2 | 402.2 | 575.2 | 580.3 | 646.5 | 570.1 | 636.3 | 656.7 | 626.1 |
| 75° | 1420.3 | 692.3 | 280.0 | 310.5 | 366.5 | 453.1 | 463.2 | 478.5 | 539.6 | 565.1 | 534.5 |
| 77.5° | 651.6 | 254.5 | 168.0 | 229.1 | 254.5 | 346.2 | 295.3 | 356.3 | 402.2 | 412.3 | 386.9 |
| 80° | 376.7 | 142.5 | 112.0 | 147.6 | 162.9 | 285.1 | 173.1 | 213.8 | 285.1 | 300.3 | 269.8 |
| 82.5° | 157.8 | 71.3 | 76.4 | 91.6 | 96.7 | 157.8 | 122.2 | 137.4 | 188.4 | 183.3 | 162.9 |
| 85° | 45.8 | 45.8 | 50.9 | 56.0 | 56.0 | 91.6 | 86.5 | 81.4 | 86.5 | 86.5 | 71.3 |
| 87.5° | 30.5 | 30.5 | 30.5 | 35.6 | 35.6 | 40.7 | 45.8 | 50.9 | 50.9 | 50.9 | 45.8 |
| 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° | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 |
| 2.5° | 2580.9 | 2535.1 | 2468.9 | 2458.8 | 2423.1 | 2397.7 | 2423.1 | 2448.6 | 2494.4 | 2499.5 | 2519.8 |
| 5° | 2367.1 | 2260.2 | 2178.8 | 2087.1 | 2041.3 | 2036.2 | 2026.1 | 2056.6 | 2122.8 | 2163.5 | 2194.0 |
| 7.5° | 2224.6 | 2031.1 | 1888.6 | 1761.3 | 1715.5 | 1679.9 | 1710.4 | 1705.4 | 1791.9 | 1827.5 | 1858.1 |
| 10° | 2148.2 | 1878.4 | 1664.6 | 1506.8 | 1445.7 | 1410.1 | 1405.0 | 1415.2 | 1466.1 | 1501.7 | 1537.4 |
| 12.5° | 2199.1 | 1817.3 | 1501.7 | 1318.5 | 1252.3 | 1211.6 | 1175.9 | 1175.9 | 1186.1 | 1231.9 | 1247.2 |
| 15° | 2367.1 | 1853.0 | 1425.4 | 1226.8 | 1140.3 | 1074.1 | 1028.3 | 992.7 | 997.8 | 1002.8 | 1018.1 |
| 17.5° | 2611.5 | 1944.6 | 1399.9 | 1170.8 | 1079.2 | 997.8 | 951.9 | 911.2 | 901.0 | 901.0 | 895.9 |
| 20° | 2845.6 | 2015.9 | 1379.6 | 1125.0 | 1007.9 | 936.7 | 895.9 | 860.3 | 845.0 | 845.0 | 845.0 |
| 22.5° | 2942.4 | 2077.0 | 1354.1 | 1069.0 | 936.7 | 870.5 | 834.9 | 809.4 | 804.3 | 804.3 | 799.2 |
| 25° | 2866.0 | 2056.6 | 1323.6 | 1013.0 | 870.5 | 819.6 | 789.0 | 763.6 | 758.5 | 763.6 | 758.5 |
| 27.5° | 2626.7 | 1985.3 | 1282.8 | 967.2 | 819.6 | 773.8 | 748.3 | 722.9 | 717.8 | 722.9 | 722.9 |
| 30° | 2372.2 | 1863.2 | 1216.7 | 931.6 | 778.9 | 728.0 | 702.5 | 677.0 | 677.0 | 682.1 | 687.2 |
| 32.5° | 2168.6 | 1741.0 | 1140.3 | 885.8 | 733.0 | 687.2 | 661.8 | 636.3 | 636.3 | 646.5 | 646.5 |
| 35° | 1995.5 | 1644.3 | 1063.9 | 839.9 | 692.3 | 641.4 | 621.1 | 600.7 | 595.6 | 605.8 | 610.9 |
| 37.5° | 1858.1 | 1557.7 | 982.5 | 794.1 | 651.6 | 605.8 | 585.4 | 560.0 | 554.9 | 565.1 | 575.2 |
| 40° | 1715.5 | 1461.0 | 911.2 | 738.1 | 610.9 | 565.1 | 544.7 | 514.2 | 514.2 | 524.3 | 534.5 |
| 42.5° | 1578.1 | 1374.5 | 865.4 | 687.2 | 570.1 | 519.2 | 498.9 | 473.4 | 473.4 | 483.6 | 493.8 |
| 45° | 1466.1 | 1293.0 | 839.9 | 636.3 | 524.3 | 478.5 | 453.1 | 432.7 | 437.8 | 448.0 | 458.2 |
| 47.5° | 1359.2 | 1206.5 | 845.0 | 610.9 | 493.8 | 432.7 | 407.2 | 392.0 | 402.2 | 417.4 | 427.6 |
| 50° | 1277.7 | 1145.4 | 850.1 | 570.1 | 453.1 | 397.1 | 371.6 | 361.4 | 376.7 | 392.0 | 402.2 |
| 52.5° | 1226.8 | 1084.3 | 819.6 | 519.2 | 422.5 | 361.4 | 346.2 | 346.2 | 361.4 | 371.6 | 381.8 |
| 55° | 1175.9 | 982.5 | 753.4 | 463.2 | 392.0 | 336.0 | 325.8 | 325.8 | 341.1 | 351.3 | 356.3 |
| 57.5° | 1135.2 | 875.6 | 677.0 | 417.4 | 356.3 | 310.5 | 310.5 | 310.5 | 315.6 | 320.7 | 330.9 |
| 60° | 1058.8 | 763.6 | 580.3 | 381.8 | 320.7 | 290.2 | 285.1 | 285.1 | 280.0 | 285.1 | 300.3 |
| 62.5° | 926.5 | 641.4 | 493.8 | 341.1 | 290.2 | 264.7 | 259.6 | 244.3 | 229.1 | 234.2 | 244.3 |
| 65° | *784.0* | *509.1* | *412.3* | *295.3* | *249.4* | *234.2* | *229.1* | *203.6* | *183.3* | *188.4* | *203.6* |
| 67.5° | 626.1 | 381.8 | 346.2 | 254.5 | 213.8 | 198.5 | 198.5 | 183.3 | 168.0 | 168.0 | 178.2 |
| 70° | 488.7 | 320.7 | 259.6 | 203.6 | 168.0 | 168.0 | 178.2 | 162.9 | 142.5 | 142.5 | 157.8 |
| 72.5° | 397.1 | 259.6 | 208.7 | 157.8 | 132.4 | 142.5 | 147.6 | 132.4 | 117.1 | 117.1 | 127.3 |
| 75° | 310.5 | 203.6 | 162.9 | 117.1 | 101.8 | 106.9 | 117.1 | 106.9 | 91.6 | 96.7 | 101.8 |
| 77.5° | 213.8 | 137.4 | 106.9 | 86.5 | 76.4 | 81.4 | 81.4 | 76.4 | 71.3 | 71.3 | 76.4 |
| 80° | 142.5 | 91.6 | 71.3 | 61.1 | 56.0 | 56.0 | 50.9 | 50.9 | 56.0 | 56.0 | 61.1 |
| 82.5° | 101.8 | 66.2 | 56.0 | 45.8 | 35.6 | 35.6 | 40.7 | 40.7 | 45.8 | 45.8 | 50.9 |
| 85° | 61.1 | 45.8 | 40.7 | 30.5 | 25.5 | 30.5 | 30.5 | 35.6 | 40.7 | 40.7 | 45.8 |
| 87.5° | 45.8 | 35.6 | 30.5 | 25.5 | 20.4 | 20.4 | 25.5 | 25.5 | 30.5 | 35.6 | 35.6 |
| 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: P1365356
CATALOG NUMBER: GSS-SB4B-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 | 2866.0 |
| 2.5° | 2570.8 | 2631.8 | 2718.4 | 2794.7 | 2886.4 | 2978.0 | 3064.5 | 3146.0 | 3151.1 | 3156.2 |
| 5° | 2290.8 | 2412.9 | 2555.5 | 2728.6 | 2911.8 | 3090.0 | 3278.3 | 3431.1 | 3466.7 | 3487.1 |
| 7.5° | 1980.2 | 2158.4 | 2377.3 | 2621.7 | 2896.6 | 3171.4 | 3436.2 | 3665.2 | 3751.8 | 3772.1 |
| 10° | 1654.4 | 1873.3 | 2138.1 | 2453.7 | 2825.3 | 3191.8 | 3548.1 | 3828.1 | 3929.9 | 3950.3 |
| 12.5° | 1364.3 | 1542.5 | 1847.9 | 2229.7 | 2677.7 | 3161.3 | 3588.9 | 3899.4 | 4001.2 | 4026.7 |
| 15° | 1114.8 | 1282.8 | 1567.9 | 1970.1 | 2474.0 | 3054.4 | 3558.3 | 3914.7 | 4016.5 | 4036.8 |
| 17.5° | 921.4 | 1028.3 | 1287.9 | 1725.7 | 2290.8 | 2916.9 | 3517.6 | 3924.9 | 4021.6 | 4036.8 |
| 20° | 845.0 | 865.4 | 1002.8 | 1430.5 | 2097.3 | 2815.1 | 3492.2 | 3940.1 | 4036.8 | 4052.1 |
| 22.5° | 809.4 | 809.4 | 839.9 | 1089.4 | 1827.5 | 2708.2 | 3482.0 | 3985.9 | 4057.2 | 4072.5 |
| 25° | 773.8 | 773.8 | 784.0 | 855.2 | 1506.8 | 2575.8 | 3502.3 | 4067.4 | 4113.2 | 4113.2 |
| 27.5° | 738.1 | 738.1 | 748.3 | 763.6 | 1119.9 | 2356.9 | 3507.4 | 4159.0 | 4179.4 | 4164.1 |
| 30° | 702.5 | 712.7 | 712.7 | 722.9 | 824.7 | 2082.1 | 3476.9 | 4260.8 | 4260.8 | 4230.3 |
| 32.5° | 666.9 | 672.0 | 682.1 | 687.2 | 717.8 | 1725.7 | 3426.0 | 4388.1 | 4362.6 | 4321.9 |
| 35° | 636.3 | 641.4 | 641.4 | 651.6 | 682.1 | 1379.6 | 3370.0 | 4561.2 | 4489.9 | 4444.1 |
| 37.5° | 595.6 | 600.7 | 605.8 | 616.0 | 646.5 | 1094.5 | 3288.5 | 4708.8 | 4657.9 | 4596.8 |
| 40° | 560.0 | 565.1 | 570.1 | 580.3 | 610.9 | 941.8 | 3186.7 | 4932.8 | 4922.6 | 4851.3 |
| 42.5° | 519.2 | 529.4 | 534.5 | 539.6 | 580.3 | 860.3 | 3115.4 | 5294.2 | 5294.2 | 5207.7 |
| 45° | 483.6 | 493.8 | 493.8 | 504.0 | 560.0 | 789.0 | 3273.3 | 5793.1 | 5833.8 | 5752.4 |
| 47.5° | 453.1 | 458.2 | 458.2 | 463.2 | 529.4 | 728.0 | 3695.8 | 6556.7 | 6505.8 | 6449.8 |
| 50° | 422.5 | 432.7 | 422.5 | 427.6 | 504.0 | 763.6 | 4393.2 | 7534.1 | 7666.4 | 7569.7 |
| 52.5° | 402.2 | 407.2 | 386.9 | 386.9 | 468.3 | 809.4 | 4963.3 | 8781.3 | 9224.2 | 9107.1 |
| 55° | 376.7 | 381.8 | 356.3 | 356.3 | 412.3 | 702.5 | 4999.0 | 10201.6 | 11173.9 | 11250.2 |
| 57.5° | 351.3 | 351.3 | 330.9 | 325.8 | 356.3 | 570.1 | 4433.9 | 11301.1 | 13505.4 | 13678.4 |
| 60° | 320.7 | 315.6 | 305.4 | 295.3 | 325.8 | 524.3 | 3380.2 | 11153.5 | 14660.9 | 15261.6 |
| 62.5° | 274.9 | 285.1 | 280.0 | 259.6 | 295.3 | 488.7 | 2204.2 | 9651.8 | 13357.7 | 13887.2 |
| 65° | *229.1* | *244.3* | *244.3* | *229.1* | *325.8* | *427.6* | *1160.7* | *7727.5* | *11148.4* | *11784.7* |
| 67.5° | 203.6 | 213.8 | 208.7 | 198.5 | 290.2 | 269.8 | 560.0 | 5925.5 | 9544.9 | 10155.7 |
| 70° | 178.2 | 188.4 | 173.1 | 162.9 | 234.2 | 193.4 | 330.9 | 3965.6 | 7880.2 | 8475.8 |
| 72.5° | 147.6 | 157.8 | 142.5 | 127.3 | 173.1 | 147.6 | 218.9 | 2580.9 | 6561.8 | 7223.6 |
| 75° | 122.2 | 127.3 | 117.1 | 101.8 | 127.3 | 117.1 | 152.7 | 1685.0 | 5487.7 | 5976.4 |
| 77.5° | 86.5 | 96.7 | 91.6 | 76.4 | 91.6 | 81.4 | 106.9 | 962.1 | 3828.1 | 4194.7 |
| 80° | 66.2 | 66.2 | 66.2 | 61.1 | 56.0 | 56.0 | 71.3 | 432.7 | 1858.1 | 2066.8 |
| 82.5° | 56.0 | 56.0 | 50.9 | 45.8 | 40.7 | 35.6 | 40.7 | 127.3 | 875.6 | 926.5 |
| 85° | 50.9 | 40.7 | 35.6 | 30.5 | 25.5 | 15.3 | 15.3 | 35.6 | 178.2 | 147.6 |
| 87.5° | 30.5 | 25.5 | 20.4 | 10.2 | 5.1 | 5.1 | 0.0 | 5.1 | 5.1 | 5.1 |
| 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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

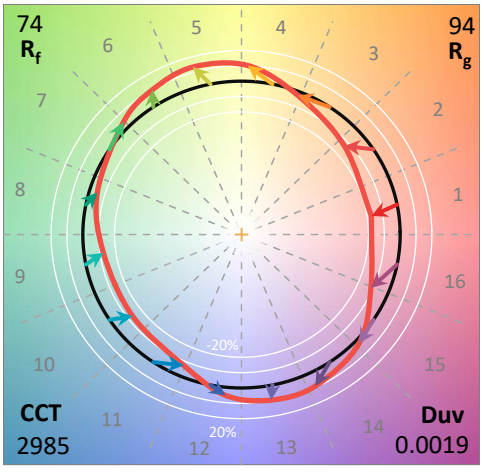
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-4 |
| 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-730-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2985 |
| CIE u': | 0.2504 |
| CIE v': | 0.5243 |
| Duv: | 0.0019 |
| CIE x: | 0.4408 |
| CIE y: | 0.4101 |
| CIE z: | 0.1491 |
| Peak Wavelength (nm): | 595 |
| Dominant Wavelength (nm): | 582 |
| Purity: | 55.41818 |
| Rf: | 73.8 |
| Rg: | 94.4 |

| | |
|---|---|
| CRI (Ra): | 70.8 |
| R1: | 66.3 |
| R2: | 80.6 |
| R3: | 94.5 |
| R4: | 68.2 |
| R5: | 66.5 |
| R6: | 74.7 |
| R7: | 76.2 |
| R8: | 39.6 |
| R9: | -43.2 |
| R10: | 57.6 |
| R11: | 64.8 |
| R12: | 53.5 |
| R13: | 68.7 |
| R14: | 97.0 |
| R15: | 56.4 |




## Test Conditions

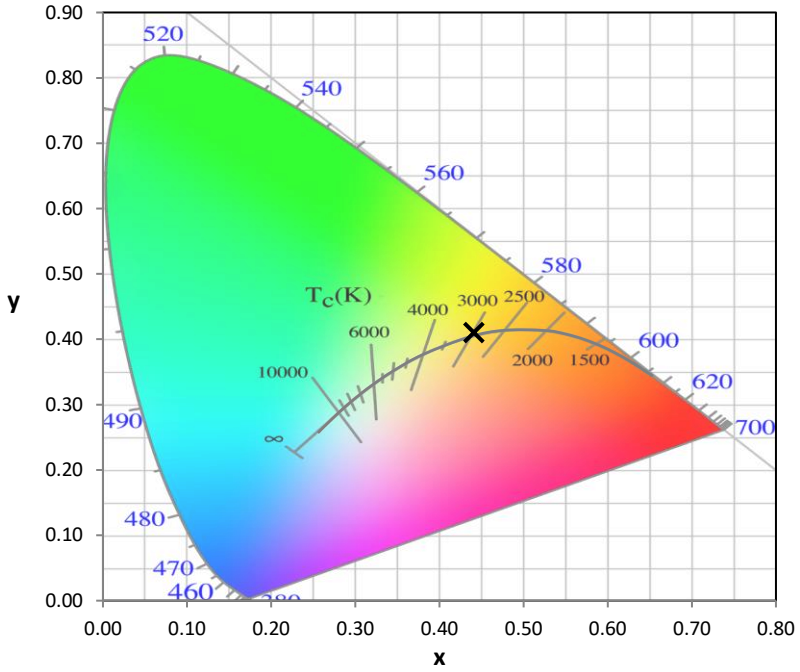
| | |
|---|---|
| Stabilization Time: | 36M |
| Operation Time: | 1H 36M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-4

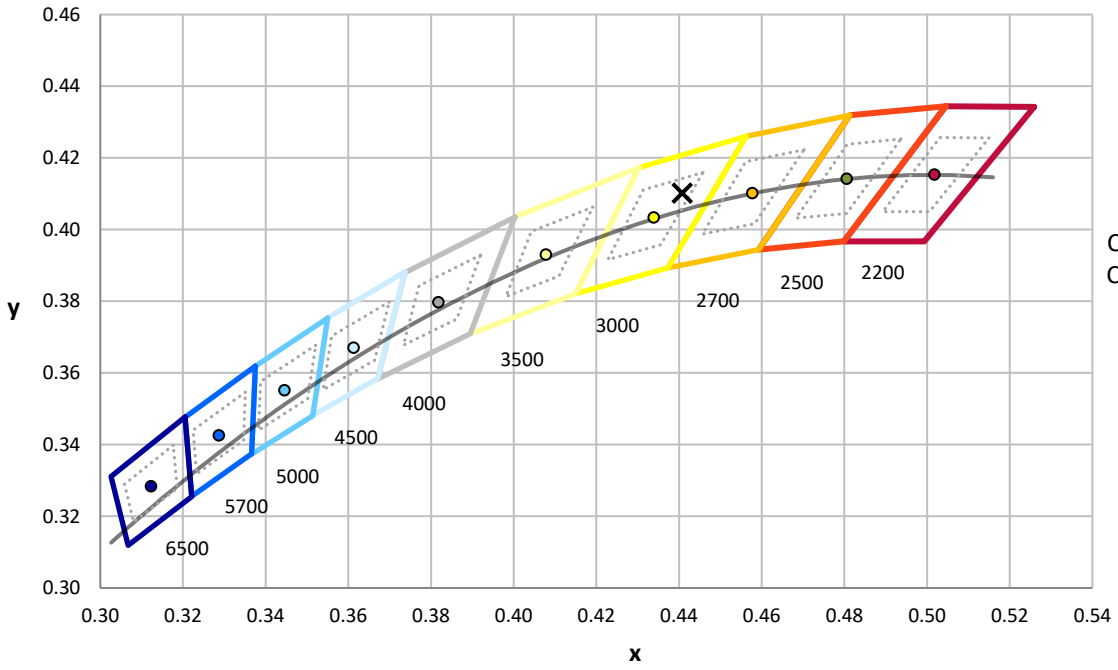
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-4

## CIE 1931 Chromaticity Diagram




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

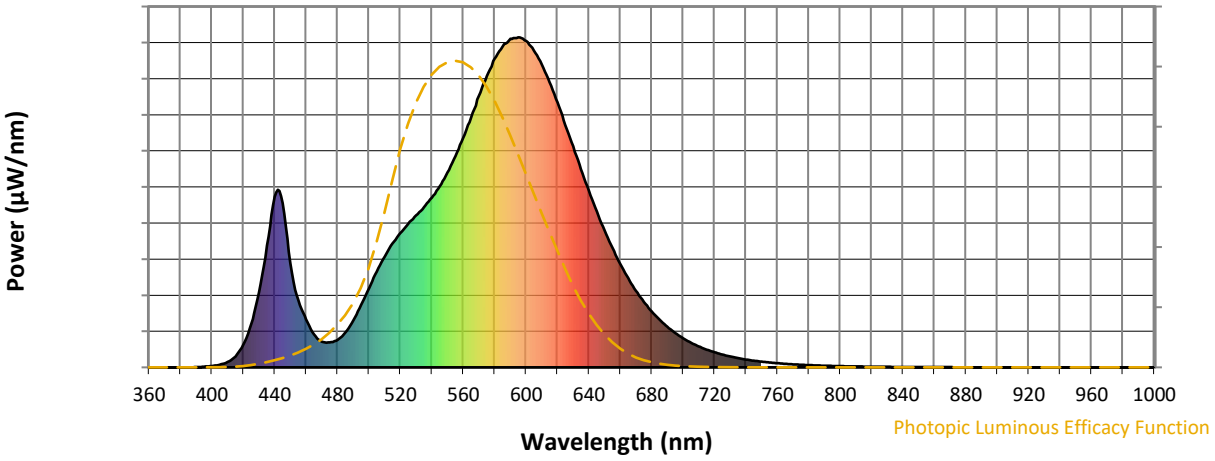



CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

## Photopic Flux vs. Wavelength

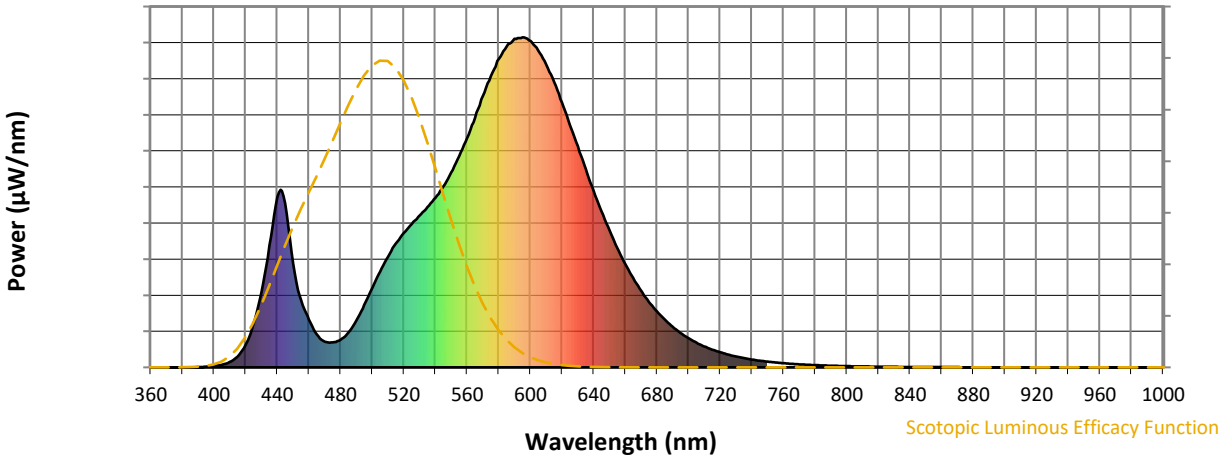



## Photopic Lumens: NR

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-4

## Scotopic Flux vs. Wavelength

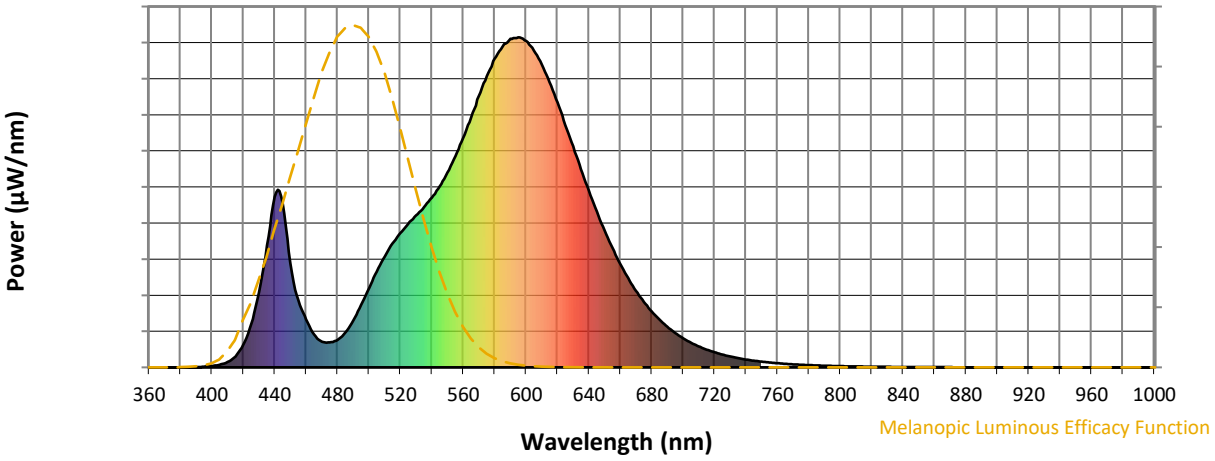



**Scotopic Lumens: NR** **S/P: 1.19**

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.13**

| 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 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

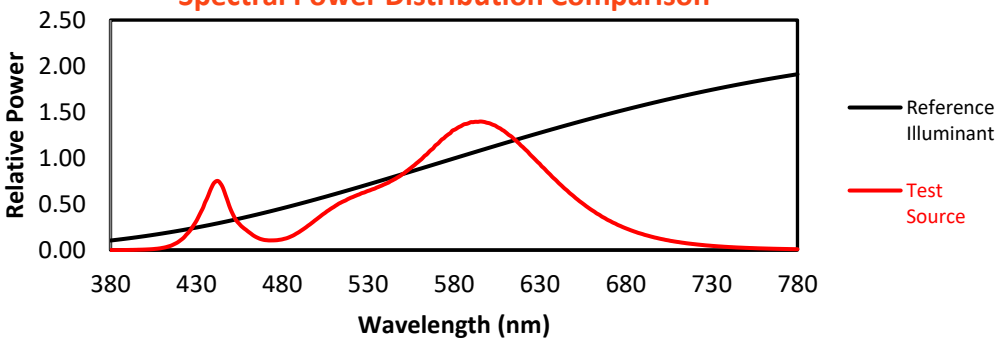
REPORT NUMBER: SP1-2407-184-4

# TM-30-18

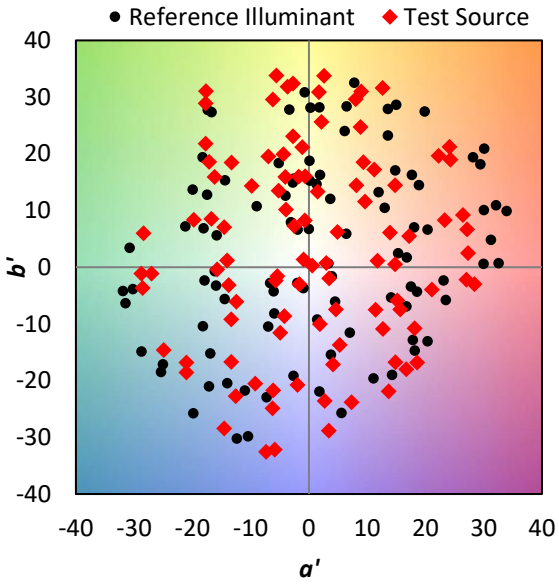
## Summary

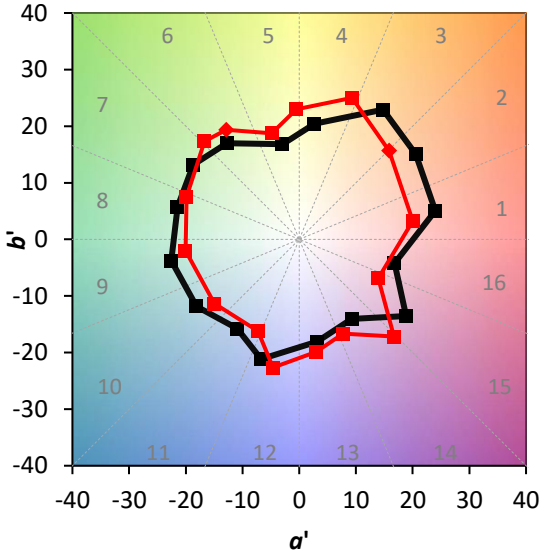
$R_f$ = 73.8
$R_g$ = 94.4
CIE $R_a$ = 70.8
$R_9$ = -43.2

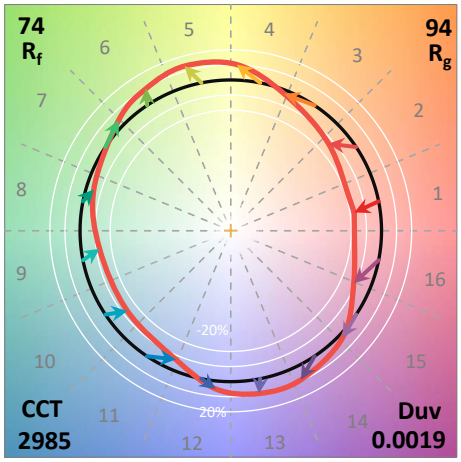
## Spectral Power Distribution Comparison

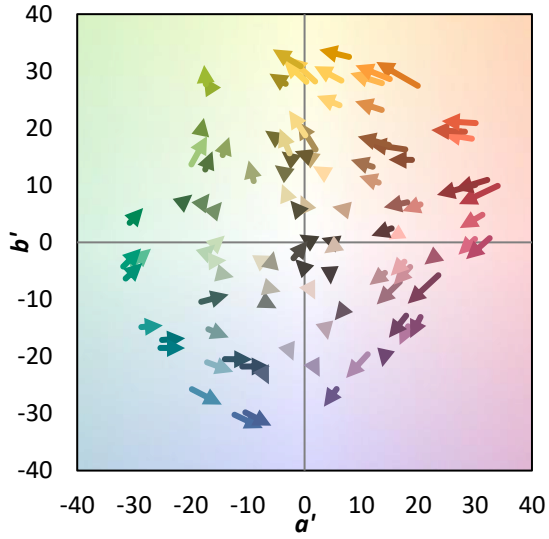



## Color Vector Graphics



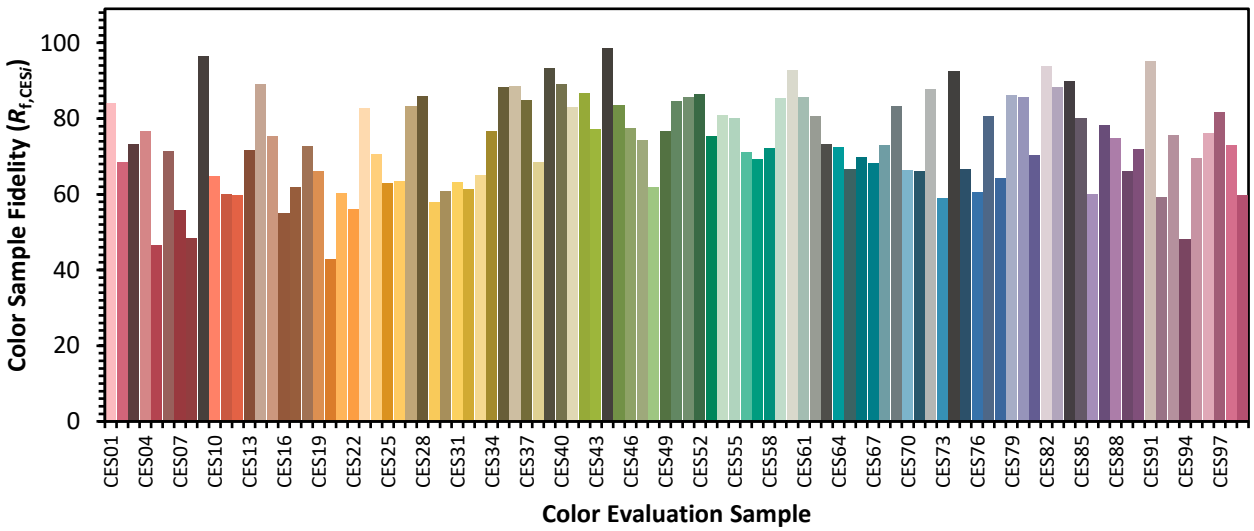



REPORT NUMBER: SP1-2407-184-4

# TM-30-18

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

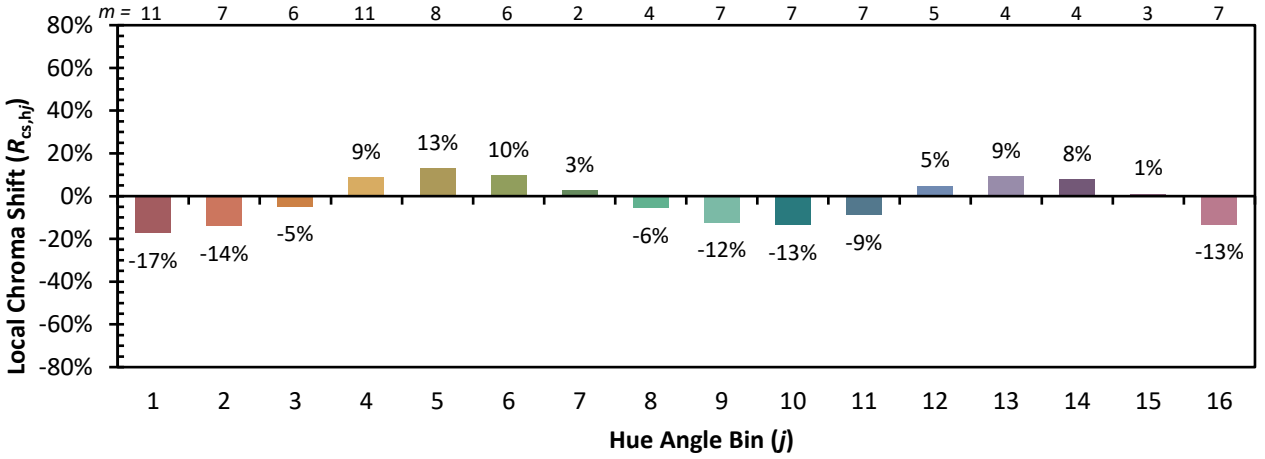
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 | |

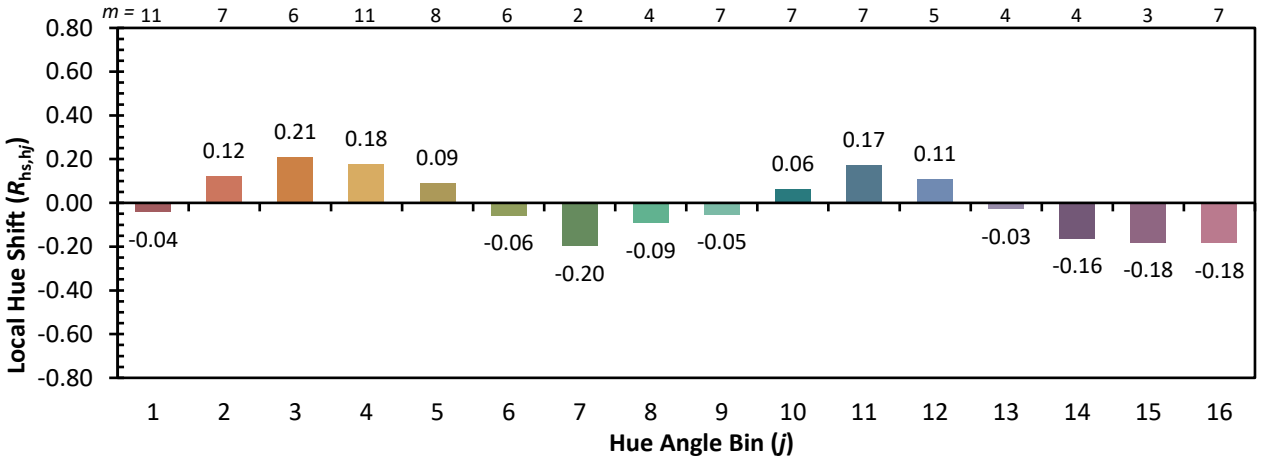


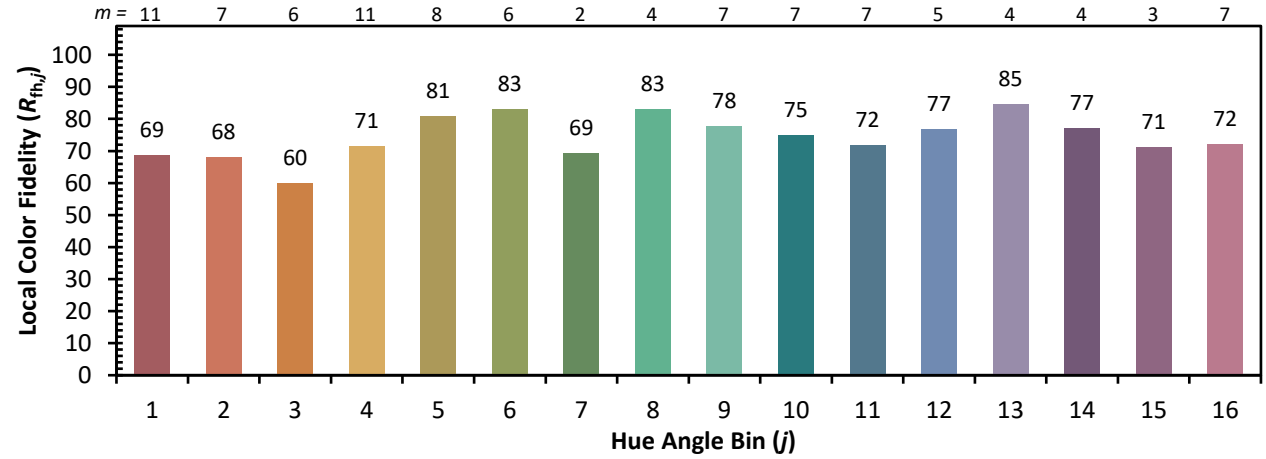
REPORT NUMBER: SP1-2407-184-4

**TM-30-18**

## Color Rendition by Hue-Angle Bin



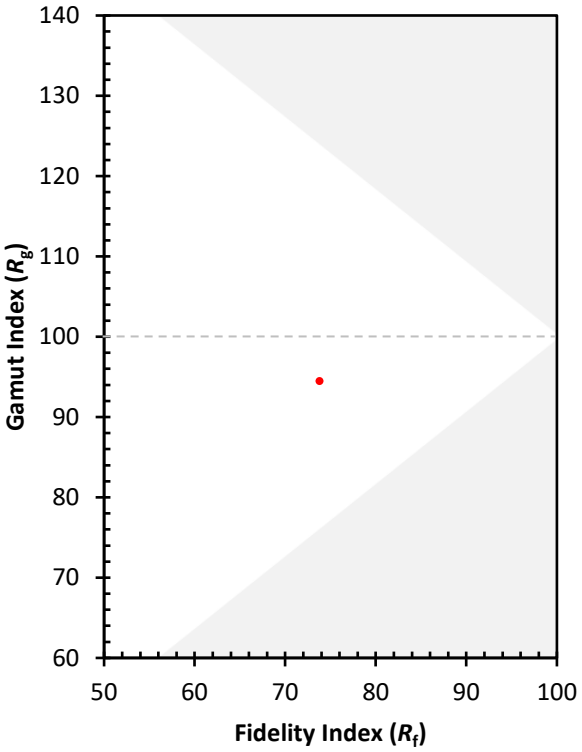



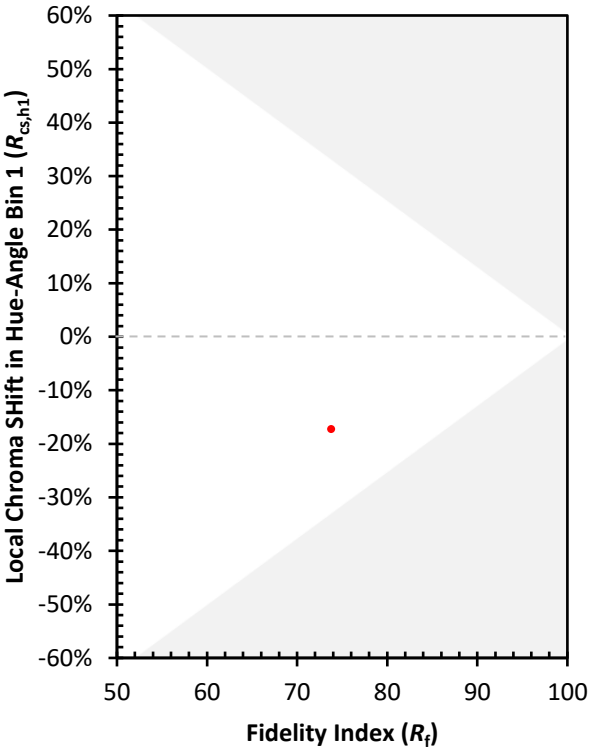



REPORT NUMBER: SP1-2407-184-4

# TM-30-18

## Measure Comparisons




(END OF REPORT)