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: P1365211

Luminaire Tested: **GSS-SB4A-930-U-SLL**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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: | P1365211 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4A-930-U-SLL |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 90CRI 3000K FIXTURE w/ 90° Spill Light Eliminator LEFT OPTIC |
| Light Source: | (104) 3000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

Luminaire Equipment:

| Sample No. | Condition | Description |
|---|---|---|
| a | good | reflector |
| b | good | lens |
| c | good | housing |
| d | good | cord |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 11504.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 100.9 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G2 |

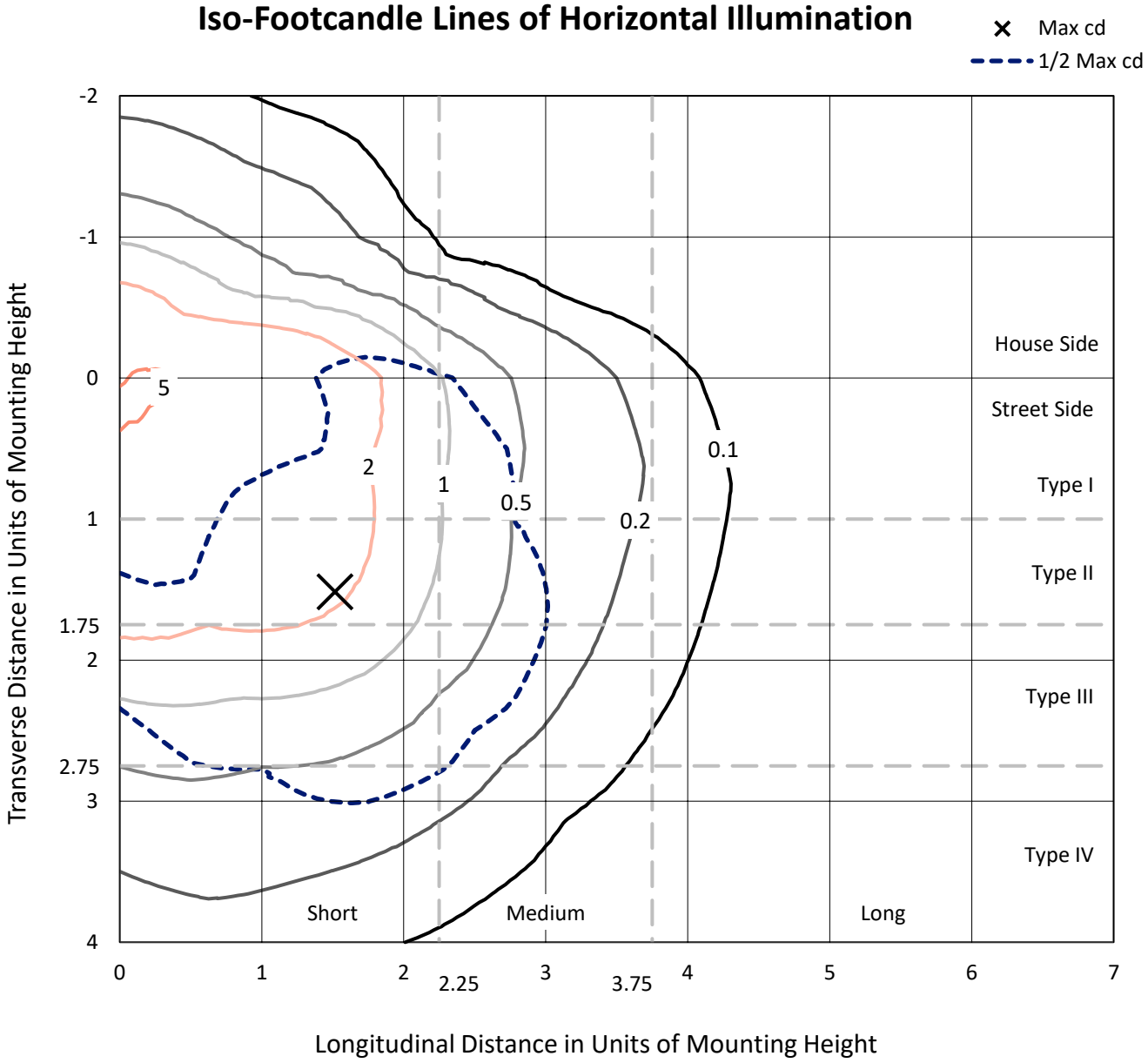
| | |
|---|---|
| Input Watts (W): | 114 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 8.2% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



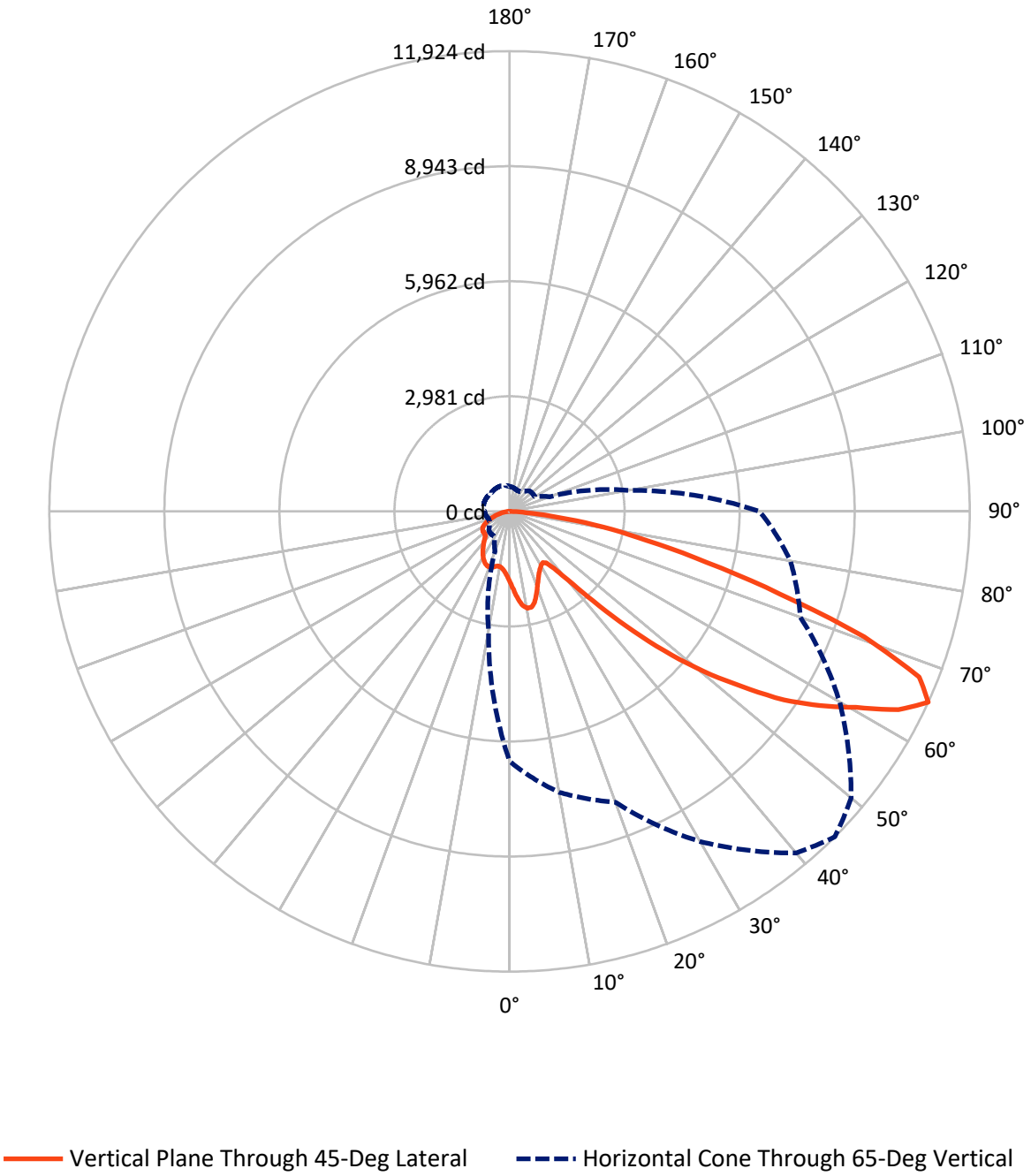

Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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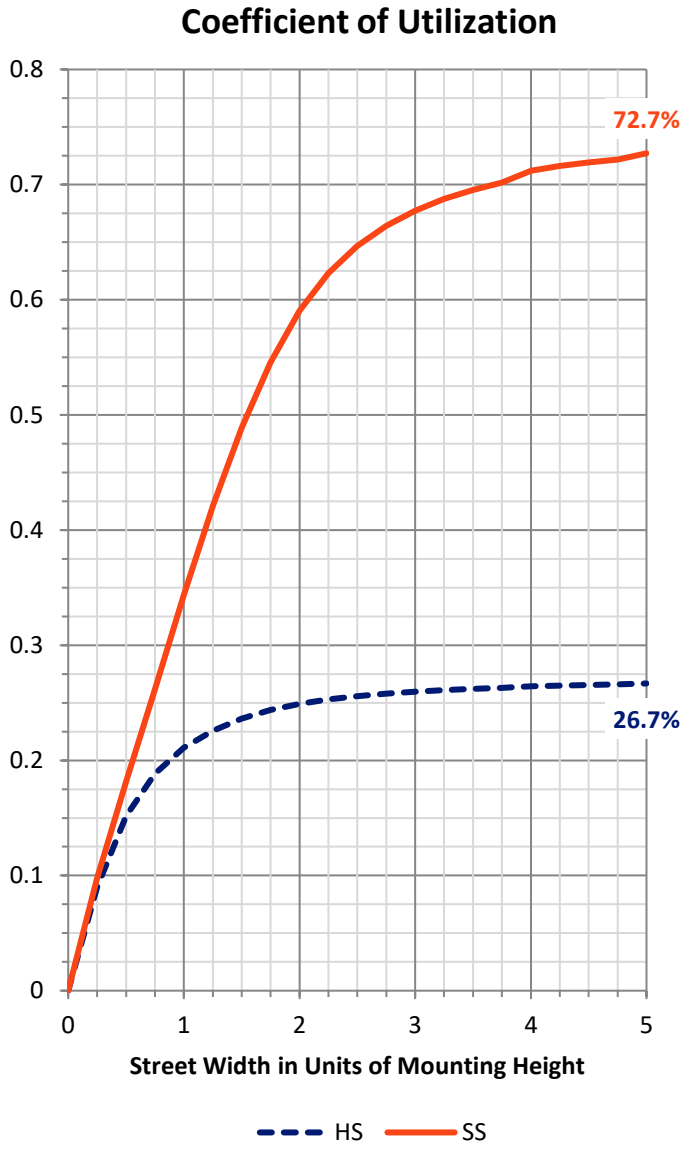
REPORT NUMBER: P1365211
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3095.0 | 0.0 | 3095.0 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 8409.7 | 0.0 | 8409.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 11504.8 | 0.0 | 11504.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 181.1 | 1.6 |
| 10°-20° | 555.1 | 4.8 |
| 20°-30° | 859.1 | 7.5 |
| 30°-40° | 1065.9 | 9.3 |
| 40°-50° | 1558.6 | 13.5 |
| 50°-60° | 2441.4 | 21.2 |
| 60°-70° | 2896.9 | 25.2 |
| 70°-80° | 1689.6 | 14.7 |
| 80°-90° | 257.0 | 2.2 |
| 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° | 11504.8 | 100.0 |
| 0°-180° | 11504.8 | 100.0 |



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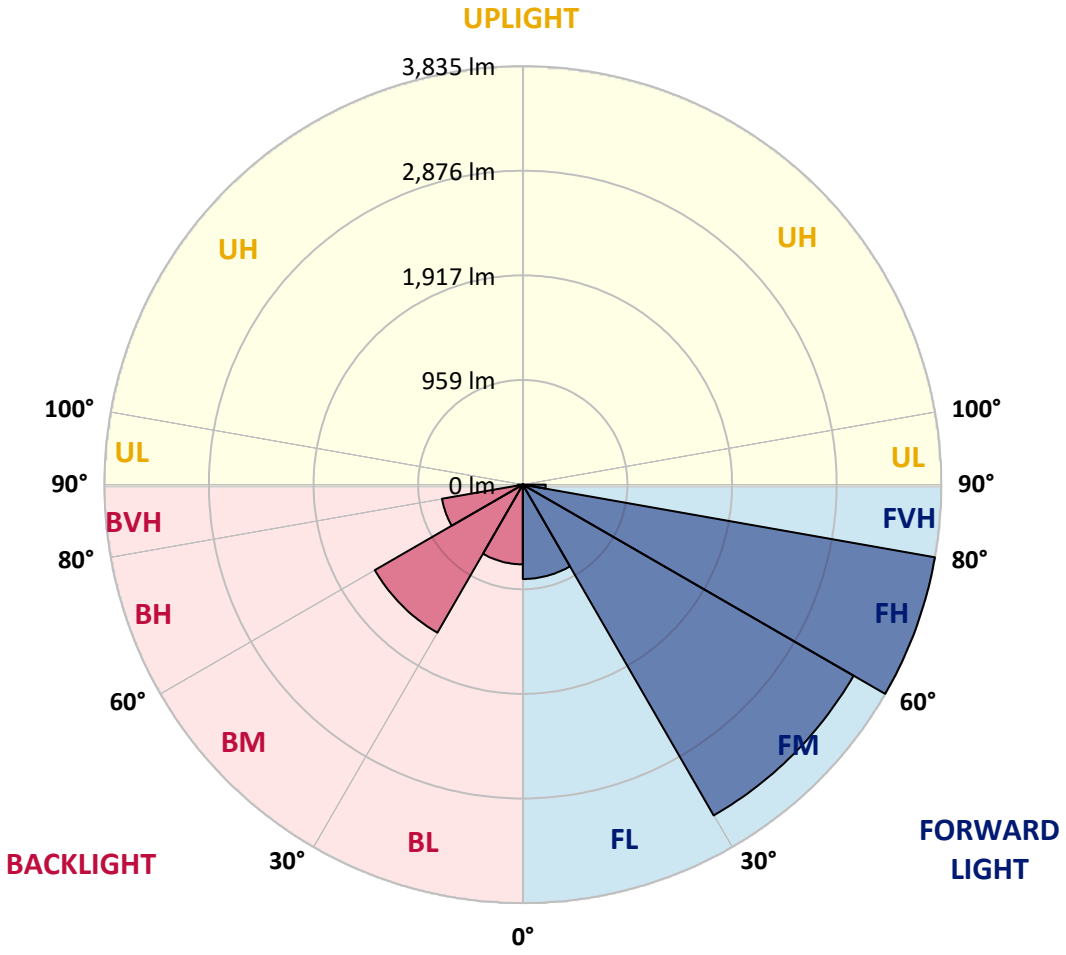
Scaled Data Report

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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°) | 864.7 | 7.5 | | | |
| FM | (30°-60°) | 3500.0 | 30.4 | | | |
| FH | (60°-80°) | 3834.8 | 33.3 | | | G2/5000 |
| FVH | (80°-90°) | 210.2 | 1.8 | | | G2/225 |
| BL | (0°-30°) | 730.6 | 6.4 | B2/1000 | | |
| BM | (30°-60°) | 1565.9 | 13.6 | B2/2500 | | |
| BH | (60°-80°) | 751.7 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 46.8 | 0.4 | | | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | *1834.5* | 1834.5 |
| 2.5° | 1982.2 | 1989.2 | 1996.2 | 2003.8 | 2011.7 | 2016.2 | 2020.7 | 2025.5 | 2030.0 | *2034.2* | 2030.0 |
| 5° | 2117.2 | 2149.0 | 2180.5 | 2201.9 | 2223.3 | 2239.6 | 2255.9 | 2265.2 | 2274.8 | *2276.2* | 2274.8 |
| 7.5° | 2253.7 | 2291.4 | 2329.1 | 2361.7 | 2394.4 | 2415.2 | 2436.0 | 2448.1 | 2460.5 | *2464.7* | 2460.5 |
| 10° | 2339.5 | 2383.7 | 2428.1 | 2459.6 | 2491.4 | 2510.8 | 2530.0 | 2539.5 | 2549.1 | *2551.9* | 2549.1 |
| 12.5° | 2383.1 | 2425.6 | 2468.1 | 2492.6 | 2516.7 | 2529.1 | 2541.2 | 2545.7 | 2549.7 | *2546.3* | 2549.7 |
| 15° | 2404.2 | 2429.2 | 2454.0 | 2464.4 | 2474.5 | 2468.6 | 2462.4 | 2453.7 | 2445.0 | *2439.4* | 2445.0 |
| 17.5° | 2409.8 | 2418.6 | 2427.6 | 2408.7 | 2390.1 | 2356.4 | 2322.6 | 2297.3 | 2272.0 | *2253.7* | 2272.0 |
| 20° | 2428.1 | 2414.1 | 2400.0 | 2349.9 | 2300.1 | 2236.8 | 2173.5 | 2131.0 | 2088.2 | *2062.4* | 2088.2 |
| 22.5° | 2447.8 | 2408.1 | 2368.5 | 2284.3 | 2200.2 | 2113.6 | 2027.2 | 1978.2 | 1929.6 | *1902.0* | 1929.6 |
| 25° | 2478.8 | 2410.7 | 2342.3 | 2228.6 | 2115.2 | 2013.4 | 1911.8 | 1858.7 | 1805.8 | *1775.4* | 1805.8 |
| 27.5° | 2523.8 | 2419.7 | 2315.6 | 2174.9 | 2034.2 | 1923.9 | 1813.4 | 1762.7 | 1712.1 | *1685.3* | 1712.1 |
| 30° | 2587.1 | 2448.9 | 2310.5 | 2142.3 | 1973.7 | 1858.4 | 1743.0 | 1693.5 | 1643.7 | *1615.0* | 1643.7 |
| 32.5° | 2664.5 | 2490.0 | 2315.6 | 2127.1 | 1938.6 | 1820.9 | 1703.6 | 1656.1 | 1608.8 | *1584.0* | 1608.8 |
| 35° | 2795.3 | 2574.4 | 2353.6 | 2144.5 | 1935.7 | 1826.6 | 1717.7 | 1682.8 | 1648.2 | *1634.7* | 1648.2 |
| 37.5° | 2961.3 | 2703.3 | 2445.0 | 2229.8 | 2014.5 | 1940.2 | 1866.0 | 1866.0 | 1866.0 | *1876.7* | 1866.0 |
| 40° | 3206.1 | 2916.3 | 2626.5 | 2422.8 | 2219.4 | 2214.9 | 2210.9 | 2258.2 | 2305.7 | *2326.8* | 2305.7 |
| 42.5° | 3549.3 | 3242.9 | 2936.8 | 2772.5 | 2608.2 | 2706.7 | 2805.1 | 2941.9 | 3078.6 | *3168.1* | 3078.6 |
| 45° | 3975.6 | 3677.3 | 3379.1 | 3264.3 | 3149.8 | 3369.0 | 3587.9 | 3829.6 | 4071.3 | *4242.9* | 4071.3 |
| 47.5° | 4383.6 | 4132.6 | 3881.3 | 3815.8 | 3750.5 | 4114.9 | 4479.2 | 4833.4 | 5187.7 | *5396.4* | 5187.7 |
| 50° | 4856.2 | 4630.6 | 4404.7 | 4392.0 | 4379.3 | 4864.7 | 5350.0 | 5807.2 | 6264.4 | *6519.1* | 6264.4 |
| 52.5° | 5462.6 | 5214.7 | 4966.5 | 4976.7 | 4986.2 | 5562.7 | 6139.2 | 6692.1 | 7245.0 | *7532.0* | 7245.0 |
| 55° | 6187.1 | 5876.2 | 5565.3 | 5563.6 | 5561.9 | 6224.2 | 6887.1 | 7566.3 | 8246.0 | *8629.2* | 8246.0 |
| 57.5° | 6925.6 | 6634.4 | 6343.2 | 6274.0 | 6204.5 | 6897.2 | 7589.6 | 8339.7 | 9090.1 | *9493.0* | 9090.1 |
| 60° | 7479.9 | 7319.5 | 7159.2 | 7048.3 | 6937.7 | 7649.0 | 8360.6 | 9135.4 | 9910.0 | *10311.8* | 9910.0 |
| 62.5° | 7250.6 | 7537.3 | 7824.0 | 7815.8 | 7807.7 | 8575.5 | 9343.3 | 10149.1 | 10955.5 | *11316.2* | 10955.5 |
| 65° | *6476.9* | *6934.1* | *7391.3* | *7705.8* | *8020.1* | *8948.3* | *9876.2* | *10715.8* | *11555.4* | *11924.0* | *11555.4* |
| 67.5° | 5751.0 | 6153.9 | 6557.0 | 6814.5 | 7071.9 | 8117.7 | 9163.8 | 10116.5 | 11069.2 | *11448.5* | 11069.2 |
| 70° | 5056.0 | 5502.2 | 5948.5 | 6132.5 | 6316.5 | 7205.0 | 8093.3 | 8847.0 | 9600.5 | *9749.1* | 9600.5 |
| 72.5° | 4339.9 | 4870.6 | 5401.5 | 5479.4 | 5557.4 | 6203.9 | 6850.5 | 7252.0 | 7653.5 | *7329.4* | 7653.5 |
| 75° | 3553.6 | 4152.3 | 4750.7 | 4802.8 | 4854.8 | 5056.3 | 5258.0 | 5360.2 | 5462.6 | *5278.3* | 5462.6 |
| 77.5° | 2363.4 | 2881.7 | 3400.2 | 3517.0 | 3633.7 | 3767.9 | 3902.4 | 3895.4 | 3888.4 | *3629.5* | 3888.4 |
| 80° | 1387.1 | 1792.5 | 2198.0 | 2213.2 | 2228.4 | 2329.1 | 2429.5 | 2532.2 | 2634.9 | *2470.3* | 2634.9 |
| 82.5° | 693.5 | 916.1 | 1138.9 | 1173.3 | 1207.6 | 1269.2 | 1330.8 | 1359.5 | 1388.5 | *1249.2* | 1388.5 |
| 85° | 157.6 | 215.5 | 273.5 | 329.5 | 385.5 | 450.2 | 514.9 | 507.6 | 500.3 | *422.0* | 500.3 |
| 87.5° | 12.7 | 12.9 | 13.5 | 13.8 | 14.1 | 14.3 | 14.6 | 15.5 | 16.3 | *16.9* | 16.3 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 2025.5 | 2020.7 | 2016.2 | 2011.7 | 2003.8 | 1996.2 | 1989.2 | 1982.2 | 1964.2 | 1946.4 | 1930.1 |
| 5° | 2265.2 | 2255.9 | 2239.6 | 2223.3 | 2201.9 | 2180.5 | 2149.0 | 2117.2 | 2085.4 | 2053.9 | 2020.7 |
| 7.5° | 2448.1 | 2436.0 | 2415.2 | 2394.4 | 2361.7 | 2329.1 | 2291.4 | 2253.7 | 2200.2 | 2146.8 | 2096.4 |
| 10° | 2539.5 | 2530.0 | 2510.8 | 2491.4 | 2459.6 | 2428.1 | 2383.7 | 2339.5 | 2275.6 | 2211.5 | 2149.0 |
| 12.5° | 2545.7 | 2541.2 | 2529.1 | 2516.7 | 2492.6 | 2468.1 | 2425.6 | 2383.1 | 2319.5 | 2255.9 | 2185.9 |
| 15° | 2453.7 | 2462.4 | 2468.6 | 2474.5 | 2464.4 | 2454.0 | 2429.2 | 2404.2 | 2339.8 | 2275.6 | 2204.4 |
| 17.5° | 2297.3 | 2322.6 | 2356.4 | 2390.1 | 2408.7 | 2427.6 | 2418.6 | 2409.8 | 2349.6 | 2289.7 | 2213.7 |
| 20° | 2131.0 | 2173.5 | 2236.8 | 2300.1 | 2349.9 | 2400.0 | 2414.1 | 2428.1 | 2367.3 | 2306.6 | 2225.0 |
| 22.5° | 1978.2 | 2027.2 | 2113.6 | 2200.2 | 2284.3 | 2368.5 | 2408.1 | 2447.8 | 2392.1 | 2336.7 | 2246.9 |
| 25° | 1858.7 | 1911.8 | 2013.4 | 2115.2 | 2228.6 | 2342.3 | 2410.7 | 2478.8 | 2430.7 | 2382.5 | 2284.6 |
| 27.5° | 1762.7 | 1813.4 | 1923.9 | 2034.2 | 2174.9 | 2315.6 | 2419.7 | 2523.8 | 2486.9 | 2450.1 | 2339.8 |
| 30° | 1693.5 | 1743.0 | 1858.4 | 1973.7 | 2142.3 | 2310.5 | 2448.9 | 2587.1 | 2558.1 | 2529.4 | 2405.0 |
| 32.5° | 1656.1 | 1703.6 | 1820.9 | 1938.6 | 2127.1 | 2315.6 | 2490.0 | 2664.5 | 2646.5 | 2628.4 | 2481.9 |
| 35° | 1682.8 | 1717.7 | 1826.6 | 1935.7 | 2144.5 | 2353.6 | 2574.4 | 2795.3 | 2772.8 | 2750.3 | 2563.5 |
| 37.5° | 1866.0 | 1866.0 | 1940.2 | 2014.5 | 2229.8 | 2445.0 | 2703.3 | 2961.3 | 2934.6 | 2907.8 | 2663.1 |
| 40° | 2258.2 | 2210.9 | 2214.9 | 2219.4 | 2422.8 | 2626.5 | 2916.3 | 3206.1 | 3153.5 | 3100.6 | 2777.0 |
| 42.5° | 2941.9 | 2805.1 | 2706.7 | 2608.2 | 2772.5 | 2936.8 | 3242.9 | 3549.3 | 3437.9 | 3326.2 | 2903.1 |
| 45° | 3829.6 | 3587.9 | 3369.0 | 3149.8 | 3264.3 | 3379.1 | 3677.3 | 3975.6 | 3796.9 | 3618.3 | 3074.1 |
| 47.5° | 4833.4 | 4479.2 | 4114.9 | 3750.5 | 3815.8 | 3881.3 | 4132.6 | 4383.6 | 4157.3 | 3931.1 | 3250.0 |
| 50° | 5807.2 | 5350.0 | 4864.7 | 4379.3 | 4392.0 | 4404.7 | 4630.6 | 4856.2 | 4549.6 | 4242.9 | 3403.3 |
| 52.5° | 6692.1 | 6139.2 | 5562.7 | 4986.2 | 4976.7 | 4966.5 | 5214.7 | 5462.6 | 4975.5 | 4488.2 | 3475.9 |
| 55° | 7566.3 | 6887.1 | 6224.2 | 5561.9 | 5563.6 | 5565.3 | 5876.2 | 6187.1 | 5403.5 | 4619.9 | 3456.8 |
| 57.5° | 8339.7 | 7589.6 | 6897.2 | 6204.5 | 6274.0 | 6343.2 | 6634.4 | 6925.6 | 5762.8 | 4600.2 | 3352.4 |
| 60° | 9135.4 | 8360.6 | 7649.0 | 6937.7 | 7048.3 | 7159.2 | 7319.5 | 7479.9 | 5923.7 | 4367.2 | 3102.3 |
| 62.5° | 10149.1 | 9343.3 | 8575.5 | 7807.7 | 7815.8 | 7824.0 | 7537.3 | 7250.6 | 5566.7 | 3882.7 | 2692.3 |
| 65° | *10715.8* | *9876.2* | *8948.3* | *8020.1* | *7705.8* | *7391.3* | *6934.1* | *6476.9* | *4801.4* | *3125.9* | *2111.9* |
| 67.5° | 10116.5 | 9163.8 | 8117.7 | 7071.9 | 6814.5 | 6557.0 | 6153.9 | 5751.0 | 4123.6 | 2496.2 | 1643.4 |
| 70° | 8847.0 | 8093.3 | 7205.0 | 6316.5 | 6132.5 | 5948.5 | 5502.2 | 5056.0 | 3503.2 | 1950.4 | 1259.4 |
| 72.5° | 7252.0 | 6850.5 | 6203.9 | 5557.4 | 5479.4 | 5401.5 | 4870.6 | 4339.9 | 2909.0 | 1477.7 | 946.8 |
| 75° | 5360.2 | 5258.0 | 5056.3 | 4854.8 | 4802.8 | 4750.7 | 4152.3 | 3553.6 | 2322.6 | 1091.7 | 701.7 |
| 77.5° | 3895.4 | 3902.4 | 3767.9 | 3633.7 | 3517.0 | 3400.2 | 2881.7 | 2363.4 | 1523.8 | 684.3 | 453.5 |
| 80° | 2532.2 | 2429.5 | 2329.1 | 2228.4 | 2213.2 | 2198.0 | 1792.5 | 1387.1 | 873.6 | 360.1 | 250.7 |
| 82.5° | 1359.5 | 1330.8 | 1269.2 | 1207.6 | 1173.3 | 1138.9 | 916.1 | 693.5 | 437.8 | 182.3 | 134.8 |
| 85° | 507.6 | 514.9 | 450.2 | 385.5 | 329.5 | 273.5 | 215.5 | 157.6 | 104.1 | 50.6 | 42.8 |
| 87.5° | 15.5 | 14.6 | 14.3 | 14.1 | 13.8 | 13.5 | 12.9 | 12.7 | 12.4 | 11.8 | 11.5 |
| 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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CATALOG NUMBER: GSS-SB4A-930-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 1913.8 | 1897.5 | 1880.9 | 1865.1 | 1849.1 | 1833.0 | 1819.0 | 1803.8 | 1788.9 | 1777.1 | 1765.5 |
| 5° | 1987.8 | 1955.4 | 1923.1 | 1892.4 | 1862.0 | 1830.2 | 1802.9 | 1775.9 | 1749.5 | 1727.5 | 1705.6 |
| 7.5° | 2046.0 | 2001.0 | 1956.0 | 1915.8 | 1875.3 | 1833.0 | 1800.1 | 1767.2 | 1734.6 | 1706.2 | 1677.5 |
| 10° | 2086.3 | 2030.8 | 1975.1 | 1928.7 | 1882.3 | 1837.3 | 1802.1 | 1767.5 | 1733.2 | 1703.9 | 1674.6 |
| 12.5° | 2115.8 | 2053.6 | 1991.5 | 1940.2 | 1889.3 | 1840.1 | 1805.8 | 1777.1 | 1748.6 | 1728.1 | 1707.8 |
| 15° | 2133.3 | 2066.3 | 1999.0 | 1941.4 | 1883.7 | 1828.8 | 1798.4 | 1779.9 | 1761.3 | 1759.6 | 1757.9 |
| 17.5° | 2137.8 | 2061.2 | 1985.0 | 1917.7 | 1850.8 | 1786.6 | 1760.7 | 1758.2 | 1755.7 | 1783.5 | 1811.4 |
| 20° | 2143.4 | 2053.6 | 1963.9 | 1875.5 | 1787.2 | 1702.2 | 1685.9 | 1701.9 | 1717.7 | 1772.3 | 1826.6 |
| 22.5° | 2157.5 | 2047.7 | 1938.0 | 1827.1 | 1716.3 | 1615.0 | 1599.5 | 1623.2 | 1646.5 | 1717.7 | 1788.9 |
| 25° | 2186.7 | 2047.2 | 1907.6 | 1769.5 | 1631.3 | 1515.1 | 1513.7 | 1539.3 | 1564.9 | 1630.8 | 1696.6 |
| 27.5° | 2229.8 | 2052.5 | 1875.3 | 1710.4 | 1545.2 | 1426.5 | 1433.5 | 1458.0 | 1482.8 | 1531.7 | 1580.7 |
| 30° | 2280.4 | 2064.0 | 1848.0 | 1658.9 | 1470.1 | 1354.7 | 1362.3 | 1381.5 | 1400.6 | 1436.1 | 1471.5 |
| 32.5° | 2335.3 | 2077.0 | 1819.0 | 1613.9 | 1409.0 | 1302.7 | 1302.7 | 1310.8 | 1319.0 | 1342.1 | 1365.1 |
| 35° | 2376.9 | 2073.9 | 1771.1 | 1562.7 | 1353.9 | 1271.7 | 1254.3 | 1247.5 | 1240.8 | 1256.0 | 1271.2 |
| 37.5° | 2418.3 | 2065.2 | 1712.1 | 1505.8 | 1299.9 | 1235.2 | 1202.0 | 1184.0 | 1165.4 | 1172.7 | 1179.5 |
| 40° | 2453.4 | 2045.5 | 1637.5 | 1438.0 | 1238.5 | 1187.3 | 1145.7 | 1118.7 | 1091.7 | 1091.1 | 1090.3 |
| 42.5° | 2479.3 | 2011.4 | 1543.2 | 1357.3 | 1171.0 | 1135.3 | 1083.8 | 1049.5 | 1015.1 | 1011.5 | 1007.8 |
| 45° | 2530.0 | 1988.1 | 1446.2 | 1275.1 | 1104.3 | 1072.0 | 1020.8 | 985.3 | 950.4 | 944.8 | 939.2 |
| 47.5° | 2568.8 | 1960.8 | 1352.8 | 1193.5 | 1034.8 | 997.4 | 949.6 | 919.5 | 889.1 | 885.7 | 882.1 |
| 50° | 2563.7 | 1914.4 | 1264.7 | 1120.9 | 976.9 | 925.7 | 878.4 | 853.6 | 828.6 | 832.8 | 837.0 |
| 52.5° | 2463.3 | 1819.3 | 1175.5 | 1055.7 | 936.4 | 870.8 | 820.2 | 801.6 | 782.7 | 796.0 | 808.9 |
| 55° | 2293.6 | 1693.2 | 1092.2 | 1001.1 | 909.3 | 844.1 | 784.4 | 763.6 | 742.8 | 761.4 | 779.9 |
| 57.5° | 2104.6 | 1561.3 | 1018.0 | 954.9 | 891.9 | 837.0 | 763.9 | 734.6 | 705.6 | 724.2 | 742.8 |
| 60° | 1837.3 | 1394.4 | 951.6 | 907.4 | 863.2 | 820.2 | 747.0 | 710.4 | 673.9 | 686.2 | 698.3 |
| 62.5° | 1501.9 | 1182.8 | 863.8 | 839.0 | 814.5 | 796.2 | 726.5 | 678.6 | 630.8 | 632.5 | 633.6 |
| 65° | *1097.9* | *929.6* | *761.1* | *755.7* | *750.7* | *745.6* | *687.9* | *636.4* | *585.2* | *579.6* | *574.0* |
| 67.5° | 790.6 | 710.7 | 630.8 | 645.7 | 660.6 | 668.2 | 628.8 | 583.5 | 538.0 | 526.4 | 514.9 |
| 70° | 568.3 | 540.2 | 512.1 | 534.3 | 556.5 | 554.3 | 535.1 | 508.1 | 481.1 | 473.8 | 466.5 |
| 72.5° | 415.8 | 415.3 | 415.0 | 431.9 | 448.8 | 426.3 | 438.4 | 432.2 | 426.3 | 420.9 | 415.8 |
| 75° | 311.7 | 309.8 | 308.1 | 328.1 | 348.3 | 357.3 | 365.2 | 361.8 | 358.7 | 354.8 | 351.1 |
| 77.5° | 222.8 | 224.5 | 225.6 | 247.6 | 269.5 | 295.4 | 296.8 | 289.5 | 281.9 | 278.0 | 273.5 |
| 80° | 141.2 | 142.9 | 144.1 | 167.1 | 189.9 | 226.5 | 225.1 | 216.1 | 206.8 | 203.7 | 200.3 |
| 82.5° | 87.2 | 87.5 | 87.8 | 99.0 | 110.3 | 130.8 | 136.5 | 136.5 | 136.5 | 134.5 | 132.2 |
| 85° | 35.2 | 36.9 | 38.8 | 46.1 | 53.5 | 64.7 | 68.1 | 68.7 | 68.9 | 65.8 | 62.5 |
| 87.5° | 11.3 | 11.8 | 12.7 | 14.1 | 15.5 | 16.9 | 19.7 | 21.4 | 23.1 | 24.8 | 25.9 |
| 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: P1365211
CATALOG NUMBER: GSS-SB4A-930-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 1755.4 | 1745.0 | 1732.9 | 1720.5 | 1711.8 | 1702.8 | 1696.9 | 1691.0 | 1688.1 | 1685.3 | 1683.1 |
| 5° | 1687.6 | 1669.0 | 1652.7 | 1636.1 | 1623.2 | 1609.9 | 1599.2 | 1588.3 | 1583.8 | 1579.0 | 1575.9 |
| 7.5° | 1653.3 | 1629.1 | 1608.8 | 1588.3 | 1568.9 | 1549.7 | 1537.3 | 1525.0 | 1517.6 | 1510.3 | 1505.0 |
| 10° | 1649.0 | 1623.4 | 1596.7 | 1570.0 | 1548.6 | 1527.2 | 1508.6 | 1490.6 | 1480.2 | 1470.1 | 1464.5 |
| 12.5° | 1684.2 | 1660.6 | 1628.8 | 1596.7 | 1567.7 | 1539.0 | 1516.2 | 1493.4 | 1480.5 | 1468.1 | 1459.7 |
| 15° | 1749.8 | 1741.6 | 1712.1 | 1682.5 | 1642.6 | 1602.3 | 1569.7 | 1536.8 | 1518.8 | 1500.2 | 1489.8 |
| 17.5° | 1827.4 | 1843.5 | 1822.9 | 1802.1 | 1745.8 | 1689.6 | 1640.9 | 1592.5 | 1566.0 | 1539.6 | 1530.3 |
| 20° | 1869.9 | 1913.2 | 1911.0 | 1909.0 | 1835.6 | 1761.9 | 1698.0 | 1634.1 | 1598.7 | 1563.8 | 1549.7 |
| 22.5° | 1851.3 | 1913.8 | 1929.8 | 1945.6 | 1873.6 | 1801.3 | 1722.5 | 1643.7 | 1602.1 | 1560.1 | 1546.9 |
| 25° | 1763.8 | 1831.1 | 1860.9 | 1890.7 | 1831.4 | 1772.0 | 1695.5 | 1619.2 | 1575.3 | 1531.2 | 1517.6 |
| 27.5° | 1634.7 | 1688.7 | 1722.2 | 1755.7 | 1719.4 | 1683.1 | 1621.2 | 1559.3 | 1520.5 | 1481.3 | 1467.0 |
| 30° | 1508.1 | 1544.7 | 1571.4 | 1598.1 | 1574.2 | 1550.3 | 1505.8 | 1461.7 | 1432.7 | 1404.0 | 1395.0 |
| 32.5° | 1392.4 | 1419.5 | 1434.4 | 1449.0 | 1430.4 | 1411.9 | 1382.6 | 1353.3 | 1335.3 | 1317.3 | 1311.4 |
| 35° | 1293.1 | 1315.3 | 1326.6 | 1337.9 | 1322.4 | 1306.9 | 1280.7 | 1254.9 | 1241.9 | 1229.0 | 1224.2 |
| 37.5° | 1198.3 | 1216.9 | 1232.9 | 1249.2 | 1238.0 | 1226.7 | 1204.5 | 1182.3 | 1167.1 | 1151.3 | 1142.9 |
| 40° | 1108.3 | 1126.0 | 1146.3 | 1166.2 | 1164.3 | 1162.0 | 1140.9 | 1119.8 | 1097.9 | 1076.2 | 1064.7 |
| 42.5° | 1025.5 | 1043.3 | 1064.7 | 1086.0 | 1090.3 | 1094.5 | 1077.0 | 1059.3 | 1034.0 | 1008.7 | 990.9 |
| 45° | 954.4 | 970.1 | 993.5 | 1017.1 | 1027.0 | 1036.8 | 1021.0 | 1005.0 | 976.6 | 948.2 | 927.1 |
| 47.5° | 898.1 | 914.4 | 940.3 | 966.5 | 976.9 | 987.6 | 976.9 | 966.5 | 942.0 | 917.2 | 898.7 |
| 50° | 854.8 | 872.2 | 892.5 | 913.0 | 932.4 | 951.6 | 949.6 | 947.6 | 928.2 | 908.8 | 891.3 |
| 52.5° | 824.9 | 841.3 | 862.4 | 883.5 | 903.7 | 924.3 | 927.4 | 930.7 | 916.7 | 902.6 | 887.4 |
| 55° | 799.3 | 818.8 | 838.4 | 858.1 | 877.3 | 896.1 | 900.3 | 904.6 | 894.4 | 884.0 | 872.8 |
| 57.5° | 763.9 | 785.0 | 804.7 | 824.4 | 846.6 | 868.8 | 872.2 | 875.6 | 864.9 | 853.9 | 845.5 |
| 60° | 720.0 | 741.4 | 761.9 | 782.2 | 804.7 | 827.2 | 831.7 | 836.2 | 827.8 | 819.3 | 811.4 |
| 62.5° | 658.1 | 682.3 | 699.2 | 716.1 | 737.4 | 759.1 | 765.6 | 772.3 | 768.4 | 764.7 | 755.7 |
| 65° | *597.0* | *620.4* | *633.6* | *647.1* | *665.7* | *684.3* | *690.7* | *697.2* | *695.2* | *693.5* | *687.1* |
| 67.5° | 536.3 | 557.7 | 568.6 | 579.6 | 592.3 | 604.9 | 612.2 | 619.6 | 615.9 | 612.0 | 605.2 |
| 70° | 483.9 | 501.4 | 510.9 | 520.5 | 530.6 | 540.8 | 544.7 | 548.6 | 543.0 | 537.4 | 522.2 |
| 72.5° | 429.1 | 442.3 | 450.5 | 458.6 | 468.2 | 477.7 | 480.0 | 482.5 | 473.8 | 464.8 | 447.1 |
| 75° | 361.3 | 371.4 | 377.6 | 384.1 | 393.9 | 403.7 | 408.0 | 412.2 | 399.8 | 387.7 | 368.9 |
| 77.5° | 282.8 | 292.0 | 298.0 | 303.9 | 312.0 | 320.2 | 321.3 | 323.0 | 312.3 | 301.6 | 290.4 |
| 80° | 207.1 | 213.8 | 216.1 | 218.1 | 224.8 | 231.3 | 231.3 | 231.3 | 223.4 | 215.2 | 209.6 |
| 82.5° | 130.8 | 129.4 | 126.6 | 123.8 | 130.6 | 137.3 | 139.6 | 142.1 | 138.4 | 135.1 | 128.9 |
| 85° | 58.5 | 54.0 | 53.2 | 52.1 | 51.8 | 51.2 | 53.2 | 54.9 | 54.0 | 53.5 | 51.2 |
| 87.5° | 27.6 | 28.7 | 27.9 | 26.7 | 25.6 | 24.8 | 22.5 | 20.3 | 18.6 | 16.9 | 15.8 |
| 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
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1365211
CATALOG NUMBER: GSS-SB4A-930-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 1681.1 | 1679.7 | 1681.1 | 1683.1 | 1685.3 | 1688.1 | 1691.0 | 1696.9 | 1702.8 | 1711.8 | 1720.5 |
| 5° | 1572.8 | 1570.0 | 1572.8 | 1575.9 | 1579.0 | 1583.8 | 1588.3 | 1599.2 | 1609.9 | 1623.2 | 1636.1 |
| 7.5° | 1499.6 | 1496.8 | 1499.6 | 1505.0 | 1510.3 | 1517.6 | 1525.0 | 1537.3 | 1549.7 | 1568.9 | 1588.3 |
| 10° | 1458.8 | 1454.6 | 1458.8 | 1464.5 | 1470.1 | 1480.2 | 1490.6 | 1508.6 | 1527.2 | 1548.6 | 1570.0 |
| 12.5° | 1451.2 | 1446.2 | 1451.2 | 1459.7 | 1468.1 | 1480.5 | 1493.4 | 1516.2 | 1539.0 | 1567.7 | 1596.7 |
| 15° | 1479.4 | 1471.5 | 1479.4 | 1489.8 | 1500.2 | 1518.8 | 1536.8 | 1569.7 | 1602.3 | 1642.6 | 1682.5 |
| 17.5° | 1520.7 | 1516.5 | 1520.7 | 1530.3 | 1539.6 | 1566.0 | 1592.5 | 1640.9 | 1689.6 | 1745.8 | 1802.1 |
| 20° | 1535.7 | 1530.6 | 1535.7 | 1549.7 | 1563.8 | 1598.7 | 1634.1 | 1698.0 | 1761.9 | 1835.6 | 1909.0 |
| 22.5° | 1533.4 | 1527.8 | 1533.4 | 1546.9 | 1560.1 | 1602.1 | 1643.7 | 1722.5 | 1801.3 | 1873.6 | 1945.6 |
| 25° | 1503.9 | 1499.6 | 1503.9 | 1517.6 | 1531.2 | 1575.3 | 1619.2 | 1695.5 | 1772.0 | 1831.4 | 1890.7 |
| 27.5° | 1452.4 | 1443.4 | 1452.4 | 1467.0 | 1481.3 | 1520.5 | 1559.3 | 1621.2 | 1683.1 | 1719.4 | 1755.7 |
| 30° | 1385.7 | 1381.5 | 1385.7 | 1395.0 | 1404.0 | 1432.7 | 1461.7 | 1505.8 | 1550.3 | 1574.2 | 1598.1 |
| 32.5° | 1305.5 | 1302.7 | 1305.5 | 1311.4 | 1317.3 | 1335.3 | 1353.3 | 1382.6 | 1411.9 | 1430.4 | 1449.0 |
| 35° | 1219.7 | 1215.5 | 1219.7 | 1224.2 | 1229.0 | 1241.9 | 1254.9 | 1280.7 | 1306.9 | 1322.4 | 1337.9 |
| 37.5° | 1134.4 | 1128.2 | 1134.4 | 1142.9 | 1151.3 | 1167.1 | 1182.3 | 1204.5 | 1226.7 | 1238.0 | 1249.2 |
| 40° | 1052.8 | 1046.7 | 1052.8 | 1064.7 | 1076.2 | 1097.9 | 1119.8 | 1140.9 | 1162.0 | 1164.3 | 1166.2 |
| 42.5° | 973.5 | 962.2 | 973.5 | 990.9 | 1008.7 | 1034.0 | 1059.3 | 1077.0 | 1094.5 | 1090.3 | 1086.0 |
| 45° | 906.0 | 891.9 | 906.0 | 927.1 | 948.2 | 976.6 | 1005.0 | 1021.0 | 1036.8 | 1027.0 | 1017.1 |
| 47.5° | 880.1 | 866.6 | 880.1 | 898.7 | 917.2 | 942.0 | 966.5 | 976.9 | 987.6 | 976.9 | 966.5 |
| 50° | 873.6 | 861.0 | 873.6 | 891.3 | 908.8 | 928.2 | 947.6 | 949.6 | 951.6 | 932.4 | 913.0 |
| 52.5° | 872.2 | 861.0 | 872.2 | 887.4 | 902.6 | 916.7 | 930.7 | 927.4 | 924.3 | 903.7 | 883.5 |
| 55° | 861.5 | 852.5 | 861.5 | 872.8 | 884.0 | 894.4 | 904.6 | 900.3 | 896.1 | 877.3 | 858.1 |
| 57.5° | 837.0 | 832.8 | 837.0 | 845.5 | 853.9 | 864.9 | 875.6 | 872.2 | 868.8 | 846.6 | 824.4 |
| 60° | 803.3 | 796.2 | 803.3 | 811.4 | 819.3 | 827.8 | 836.2 | 831.7 | 827.2 | 804.7 | 782.2 |
| 62.5° | 747.0 | 737.2 | 747.0 | 755.7 | 764.7 | 768.4 | 772.3 | 765.6 | 759.1 | 737.4 | 716.1 |
| 65° | *680.9* | *669.6* | *680.9* | *687.1* | *693.5* | *695.2* | *697.2* | *690.7* | *684.3* | *665.7* | *647.1* |
| 67.5° | 598.7 | 596.5 | 598.7 | 605.2 | 612.0 | 615.9 | 619.6 | 612.2 | 604.9 | 592.3 | 579.6 |
| 70° | 507.0 | 489.6 | 507.0 | 522.2 | 537.4 | 543.0 | 548.6 | 544.7 | 540.8 | 530.6 | 520.5 |
| 72.5° | 429.1 | 410.8 | 429.1 | 447.1 | 464.8 | 473.8 | 482.5 | 480.0 | 477.7 | 468.2 | 458.6 |
| 75° | 350.3 | 337.6 | 350.3 | 368.9 | 387.7 | 399.8 | 412.2 | 408.0 | 403.7 | 393.9 | 384.1 |
| 77.5° | 279.1 | 272.9 | 279.1 | 290.4 | 301.6 | 312.3 | 323.0 | 321.3 | 320.2 | 312.0 | 303.9 |
| 80° | 204.0 | 199.8 | 204.0 | 209.6 | 215.2 | 223.4 | 231.3 | 231.3 | 231.3 | 224.8 | 218.1 |
| 82.5° | 122.4 | 118.2 | 122.4 | 128.9 | 135.1 | 138.4 | 142.1 | 139.6 | 137.3 | 130.6 | 123.8 |
| 85° | 49.2 | 47.8 | 49.2 | 51.2 | 53.5 | 54.0 | 54.9 | 53.2 | 51.2 | 51.8 | 52.1 |
| 87.5° | 14.6 | 14.1 | 14.6 | 15.8 | 16.9 | 18.6 | 20.3 | 22.5 | 24.8 | 25.6 | 26.7 |
| 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
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1365211
CATALOG NUMBER: GSS-SB4A-930-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 1732.9 | 1745.0 | 1755.4 | 1765.5 | 1777.1 | 1788.9 | 1803.8 | 1819.0 | 1833.0 | 1849.1 | 1865.1 |
| 5° | 1652.7 | 1669.0 | 1687.6 | 1705.6 | 1727.5 | 1749.5 | 1775.9 | 1802.9 | 1830.2 | 1862.0 | 1892.4 |
| 7.5° | 1608.8 | 1629.1 | 1653.3 | 1677.5 | 1706.2 | 1734.6 | 1767.2 | 1800.1 | 1833.0 | 1875.3 | 1915.8 |
| 10° | 1596.7 | 1623.4 | 1649.0 | 1674.6 | 1703.9 | 1733.2 | 1767.5 | 1802.1 | 1837.3 | 1882.3 | 1928.7 |
| 12.5° | 1628.8 | 1660.6 | 1684.2 | 1707.8 | 1728.1 | 1748.6 | 1777.1 | 1805.8 | 1840.1 | 1889.3 | 1940.2 |
| 15° | 1712.1 | 1741.6 | 1749.8 | 1757.9 | 1759.6 | 1761.3 | 1779.9 | 1798.4 | 1828.8 | 1883.7 | 1941.4 |
| 17.5° | 1822.9 | 1843.5 | 1827.4 | 1811.4 | 1783.5 | 1755.7 | 1758.2 | 1760.7 | 1786.6 | 1850.8 | 1917.7 |
| 20° | 1911.0 | 1913.2 | 1869.9 | 1826.6 | 1772.3 | 1717.7 | 1701.9 | 1685.9 | 1702.2 | 1787.2 | 1875.5 |
| 22.5° | 1929.8 | 1913.8 | 1851.3 | 1788.9 | 1717.7 | 1646.5 | 1623.2 | 1599.5 | 1615.0 | 1716.3 | 1827.1 |
| 25° | 1860.9 | 1831.1 | 1763.8 | 1696.6 | 1630.8 | 1564.9 | 1539.3 | 1513.7 | 1515.1 | 1631.3 | 1769.5 |
| 27.5° | 1722.2 | 1688.7 | 1634.7 | 1580.7 | 1531.7 | 1482.8 | 1458.0 | 1433.5 | 1426.5 | 1545.2 | 1710.4 |
| 30° | 1571.4 | 1544.7 | 1508.1 | 1471.5 | 1436.1 | 1400.6 | 1381.5 | 1362.3 | 1354.7 | 1470.1 | 1658.9 |
| 32.5° | 1434.4 | 1419.5 | 1392.4 | 1365.1 | 1342.1 | 1319.0 | 1310.8 | 1302.7 | 1302.7 | 1409.0 | 1613.9 |
| 35° | 1326.6 | 1315.3 | 1293.1 | 1271.2 | 1256.0 | 1240.8 | 1247.5 | 1254.3 | 1271.7 | 1353.9 | 1562.7 |
| 37.5° | 1232.9 | 1216.9 | 1198.3 | 1179.5 | 1172.7 | 1165.4 | 1184.0 | 1202.0 | 1235.2 | 1299.9 | 1505.8 |
| 40° | 1146.3 | 1126.0 | 1108.3 | 1090.3 | 1091.1 | 1091.7 | 1118.7 | 1145.7 | 1187.3 | 1238.5 | 1438.0 |
| 42.5° | 1064.7 | 1043.3 | 1025.5 | 1007.8 | 1011.5 | 1015.1 | 1049.5 | 1083.8 | 1135.3 | 1171.0 | 1357.3 |
| 45° | 993.5 | 970.1 | 954.4 | 939.2 | 944.8 | 950.4 | 985.3 | 1020.8 | 1072.0 | 1104.3 | 1275.1 |
| 47.5° | 940.3 | 914.4 | 898.1 | 882.1 | 885.7 | 889.1 | 919.5 | 949.6 | 997.4 | 1034.8 | 1193.5 |
| 50° | 892.5 | 872.2 | 854.8 | 837.0 | 832.8 | 828.6 | 853.6 | 878.4 | 925.7 | 976.9 | 1120.9 |
| 52.5° | 862.4 | 841.3 | 824.9 | 808.9 | 796.0 | 782.7 | 801.6 | 820.2 | 870.8 | 936.4 | 1055.7 |
| 55° | 838.4 | 818.8 | 799.3 | 779.9 | 761.4 | 742.8 | 763.6 | 784.4 | 844.1 | 909.3 | 1001.1 |
| 57.5° | 804.7 | 785.0 | 763.9 | 742.8 | 724.2 | 705.6 | 734.6 | 763.9 | 837.0 | 891.9 | 954.9 |
| 60° | 761.9 | 741.4 | 720.0 | 698.3 | 686.2 | 673.9 | 710.4 | 747.0 | 820.2 | 863.2 | 907.4 |
| 62.5° | 699.2 | 682.3 | 658.1 | 633.6 | 632.5 | 630.8 | 678.6 | 726.5 | 796.2 | 814.5 | 839.0 |
| 65° | *633.6* | *620.4* | *597.0* | *574.0* | *579.6* | *585.2* | *636.4* | *687.9* | *745.6* | *750.7* | *755.7* |
| 67.5° | 568.6 | 557.7 | 536.3 | 514.9 | 526.4 | 538.0 | 583.5 | 628.8 | 668.2 | 660.6 | 645.7 |
| 70° | 510.9 | 501.4 | 483.9 | 466.5 | 473.8 | 481.1 | 508.1 | 535.1 | 554.3 | 556.5 | 534.3 |
| 72.5° | 450.5 | 442.3 | 429.1 | 415.8 | 420.9 | 426.3 | 432.2 | 438.4 | 426.3 | 448.8 | 431.9 |
| 75° | 377.6 | 371.4 | 361.3 | 351.1 | 354.8 | 358.7 | 361.8 | 365.2 | 357.3 | 348.3 | 328.1 |
| 77.5° | 298.0 | 292.0 | 282.8 | 273.5 | 278.0 | 281.9 | 289.5 | 296.8 | 295.4 | 269.5 | 247.6 |
| 80° | 216.1 | 213.8 | 207.1 | 200.3 | 203.7 | 206.8 | 216.1 | 225.1 | 226.5 | 189.9 | 167.1 |
| 82.5° | 126.6 | 129.4 | 130.8 | 132.2 | 134.5 | 136.5 | 136.5 | 136.5 | 130.8 | 110.3 | 99.0 |
| 85° | 53.2 | 54.0 | 58.5 | 62.5 | 65.8 | 68.9 | 68.7 | 68.1 | 64.7 | 53.5 | 46.1 |
| 87.5° | 27.9 | 28.7 | 27.6 | 25.9 | 24.8 | 23.1 | 21.4 | 19.7 | 16.9 | 15.5 | 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 |

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

Scaled Data Report

REPORT NUMBER: P1365211
CATALOG NUMBER: GSS-SB4A-930-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 | 1834.5 |
| 2.5° | 1880.9 | 1897.5 | 1913.8 | 1930.1 | 1946.4 | 1964.2 | 1982.2 |
| 5° | 1923.1 | 1955.4 | 1987.8 | 2020.7 | 2053.9 | 2085.4 | 2117.2 |
| 7.5° | 1956.0 | 2001.0 | 2046.0 | 2096.4 | 2146.8 | 2200.2 | 2253.7 |
| 10° | 1975.1 | 2030.8 | 2086.3 | 2149.0 | 2211.5 | 2275.6 | 2339.5 |
| 12.5° | 1991.5 | 2053.6 | 2115.8 | 2185.9 | 2255.9 | 2319.5 | 2383.1 |
| 15° | 1999.0 | 2066.3 | 2133.3 | 2204.4 | 2275.6 | 2339.8 | 2404.2 |
| 17.5° | 1985.0 | 2061.2 | 2137.8 | 2213.7 | 2289.7 | 2349.6 | 2409.8 |
| 20° | 1963.9 | 2053.6 | 2143.4 | 2225.0 | 2306.6 | 2367.3 | 2428.1 |
| 22.5° | 1938.0 | 2047.7 | 2157.5 | 2246.9 | 2336.7 | 2392.1 | 2447.8 |
| 25° | 1907.6 | 2047.2 | 2186.7 | 2284.6 | 2382.5 | 2430.7 | 2478.8 |
| 27.5° | 1875.3 | 2052.5 | 2229.8 | 2339.8 | 2450.1 | 2486.9 | 2523.8 |
| 30° | 1848.0 | 2064.0 | 2280.4 | 2405.0 | 2529.4 | 2558.1 | 2587.1 |
| 32.5° | 1819.0 | 2077.0 | 2335.3 | 2481.9 | 2628.4 | 2646.5 | 2664.5 |
| 35° | 1771.1 | 2073.9 | 2376.9 | 2563.5 | 2750.3 | 2772.8 | 2795.3 |
| 37.5° | 1712.1 | 2065.2 | 2418.3 | 2663.1 | 2907.8 | 2934.6 | 2961.3 |
| 40° | 1637.5 | 2045.5 | 2453.4 | 2777.0 | 3100.6 | 3153.5 | 3206.1 |
| 42.5° | 1543.2 | 2011.4 | 2479.3 | 2903.1 | 3326.2 | 3437.9 | 3549.3 |
| 45° | 1446.2 | 1988.1 | 2530.0 | 3074.1 | 3618.3 | 3796.9 | 3975.6 |
| 47.5° | 1352.8 | 1960.8 | 2568.8 | 3250.0 | 3931.1 | 4157.3 | 4383.6 |
| 50° | 1264.7 | 1914.4 | 2563.7 | 3403.3 | 4242.9 | 4549.6 | 4856.2 |
| 52.5° | 1175.5 | 1819.3 | 2463.3 | 3475.9 | 4488.2 | 4975.5 | 5462.6 |
| 55° | 1092.2 | 1693.2 | 2293.6 | 3456.8 | 4619.9 | 5403.5 | 6187.1 |
| 57.5° | 1018.0 | 1561.3 | 2104.6 | 3352.4 | 4600.2 | 5762.8 | 6925.6 |
| 60° | 951.6 | 1394.4 | 1837.3 | 3102.3 | 4367.2 | 5923.7 | 7479.9 |
| 62.5° | 863.8 | 1182.8 | 1501.9 | 2692.3 | 3882.7 | 5566.7 | 7250.6 |
| 65° | *761.1* | *929.6* | *1097.9* | *2111.9* | *3125.9* | *4801.4* | *6476.9* |
| 67.5° | 630.8 | 710.7 | 790.6 | 1643.4 | 2496.2 | 4123.6 | 5751.0 |
| 70° | 512.1 | 540.2 | 568.3 | 1259.4 | 1950.4 | 3503.2 | 5056.0 |
| 72.5° | 415.0 | 415.3 | 415.8 | 946.8 | 1477.7 | 2909.0 | 4339.9 |
| 75° | 308.1 | 309.8 | 311.7 | 701.7 | 1091.7 | 2322.6 | 3553.6 |
| 77.5° | 225.6 | 224.5 | 222.8 | 453.5 | 684.3 | 1523.8 | 2363.4 |
| 80° | 144.1 | 142.9 | 141.2 | 250.7 | 360.1 | 873.6 | 1387.1 |
| 82.5° | 87.8 | 87.5 | 87.2 | 134.8 | 182.3 | 437.8 | 693.5 |
| 85° | 38.8 | 36.9 | 35.2 | 42.8 | 50.6 | 104.1 | 157.6 |
| 87.5° | 12.7 | 11.8 | 11.3 | 11.5 | 11.8 | 12.4 | 12.7 |
| 90° | 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-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-2

Luminaire Tested: GFLD-SA1-A-930-U-WR-X-BK

Test Date: 06/16/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

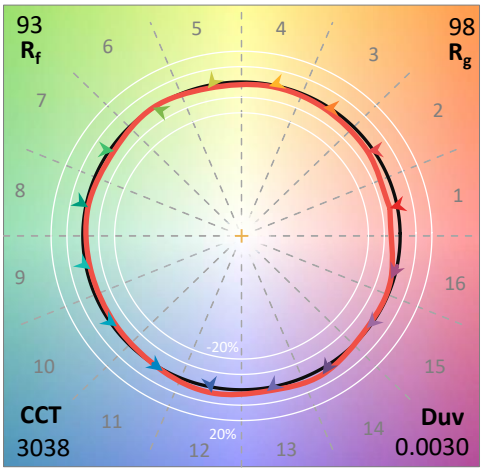
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-2 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/16/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-930-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3038 | CRI (Ra): | 92.3 | | |
| CIE u': | 0.2481 | R1: | 92.0 | R9: | 58.9 |
| CIE v': | 0.5247 | R2: | 94.8 | R10: | 87.0 |
| Duv: | 0.0030 | R3: | 96.7 | R11: | 93.2 |
| CIE x: | 0.4384 | R4: | 93.0 | R12: | 81.1 |
| CIE y: | 0.4121 | R5: | 91.4 | R13: | 92.5 |
| CIE z: | 0.1495 | R6: | 93.7 | R14: | 97.4 |
| Peak Wavelength (nm): | 624 | R7: | 93.9 | | |
| Dominant Wavelength (nm): | 581 | R8: | 82.9 | | |
| Purity: | 55.6 | | | | |

| | |
|---|---|
| Rf: | 92.8 |
| Rg: | 98 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 82M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.3/43% |
| Sphere Temperature (°C): | 24.2 |

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

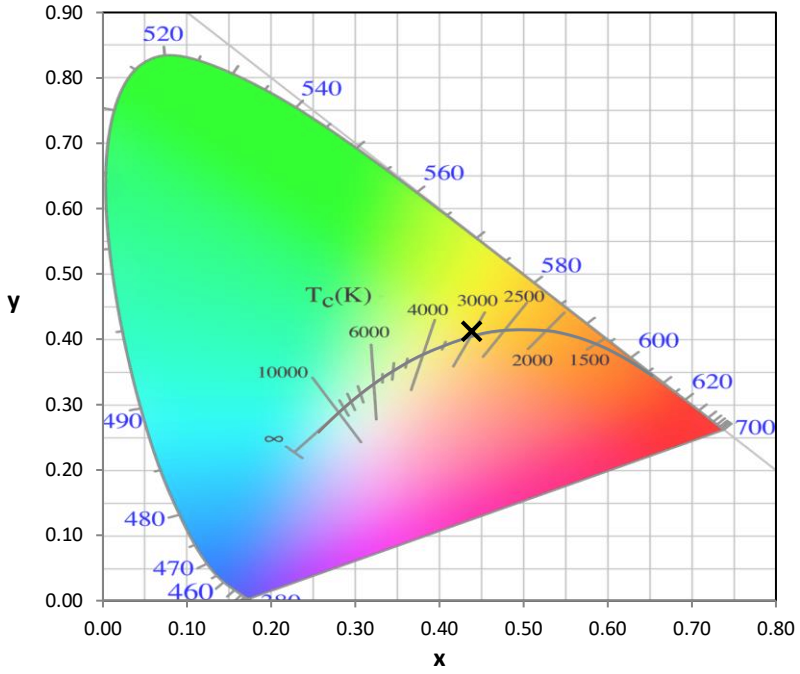
REPORT NUMBER: SP1-2106-271-2

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | XITRON 2801 IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61603 IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | AGILENT E3634A IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | ONSET IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | ONSET IN0046 | 12/1/2020 | 12/1/2021 |

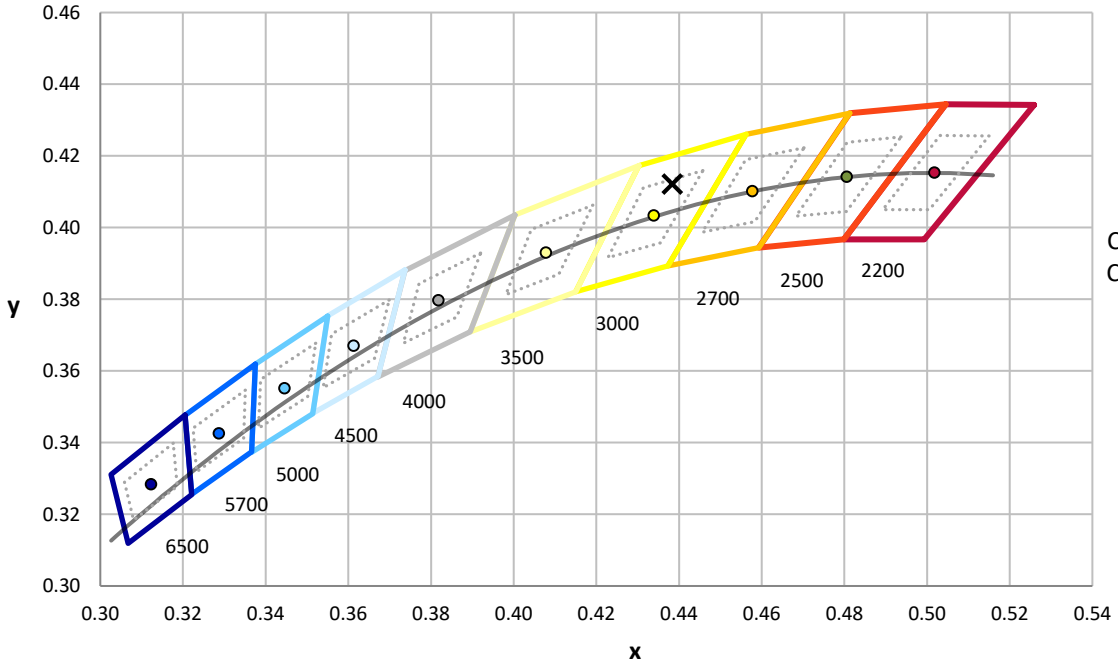
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-2

## CIE 1931 Chromaticity Diagram




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



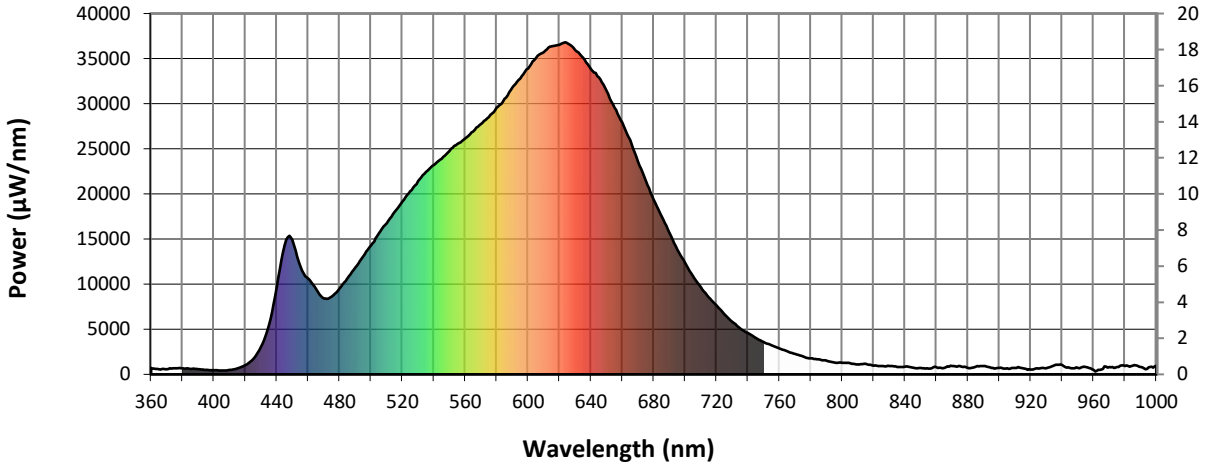

CCT = 3038K
CIE x = 0.4384
CIE y = 0.4121
Duv = 0.0030

Point lies inside the ANSI 3000K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-2

## Photopic Flux vs. Wavelength



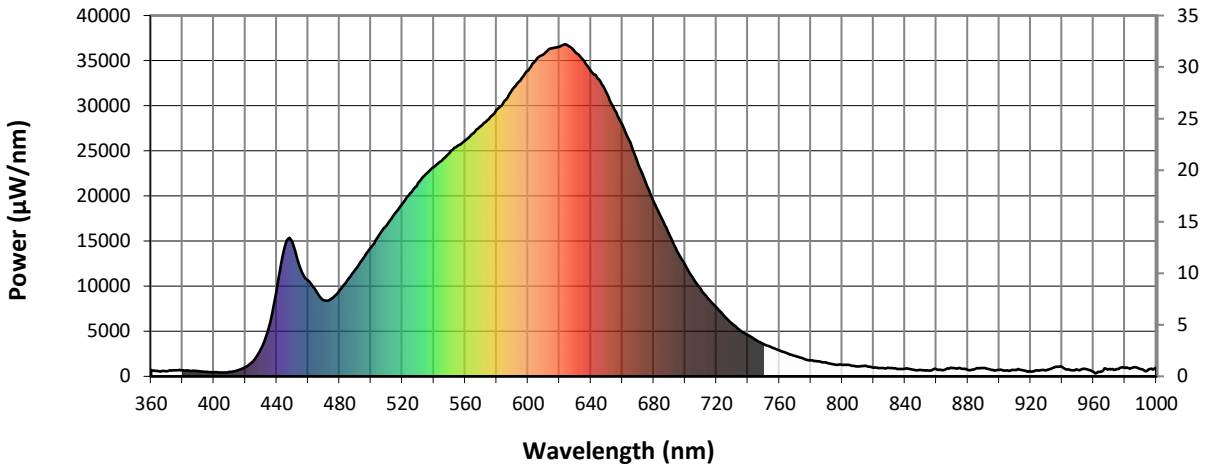

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-2

## Scotopic Flux vs. Wavelength



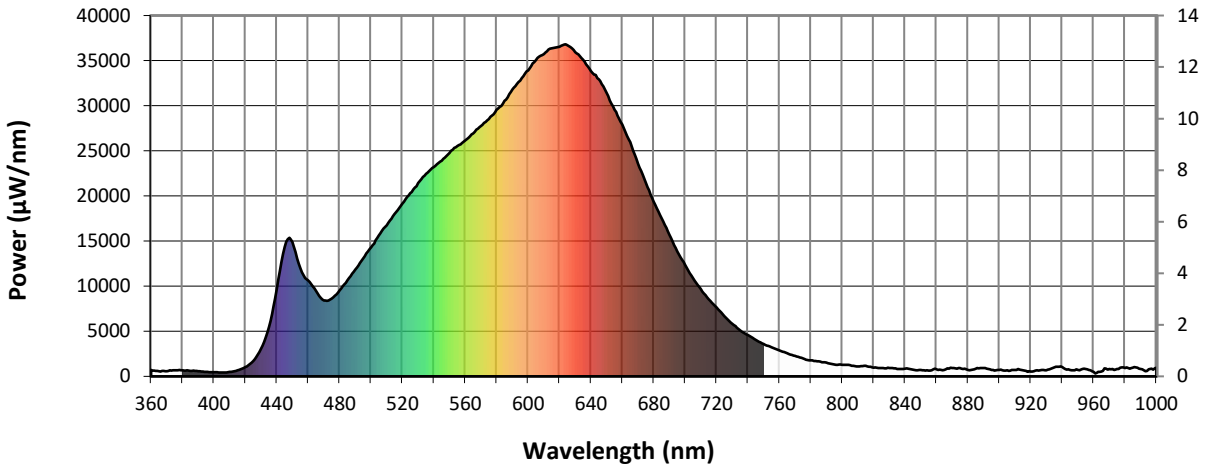

**Scotopic Lumens: 2650.8** **S/P: 1.41**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1008.8** **S/P: 0.54**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 718 | NR | 490 | 11837 | NR | 620 | 36553 | NR | 750 | 3581 | NR | 880 | 702 | NR |
| 365 | 573 | NR | 495 | 13045 | NR | 625 | 36706 | NR | 755 | 3240 | NR | 885 | 837 | NR |
| 370 | 566 | NR | 500 | 14286 | NR | 630 | 35946 | NR | 760 | 2875 | NR | 890 | 938 | NR |
| 375 | 689 | NR | 505 | 15591 | NR | 635 | 35109 | NR | 765 | 2561 | NR | 895 | 722 | NR |
| 380 | 659 | NR | 510 | 16757 | NR | 640 | 33848 | NR | 770 | 2263 | NR | 900 | 712 | NR |
| 385 | 616 | NR | 515 | 17969 | NR | 645 | 32907 | NR | 775 | 1981 | NR | 905 | 660 | NR |
| 390 | 575 | NR | 520 | 19153 | NR | 650 | 31426 | NR | 780 | 1758 | NR | 910 | 722 | NR |
| 395 | 507 | NR | 525 | 20279 | NR | 655 | 29538 | NR | 785 | 1656 | NR | 915 | 683 | NR |
| 400 | 452 | NR | 530 | 21424 | NR | 660 | 27902 | NR | 790 | 1510 | NR | 920 | 536 | NR |
| 405 | 442 | NR | 535 | 22450 | NR | 665 | 25950 | NR | 795 | 1317 | NR | 925 | 653 | NR |
| 410 | 492 | NR | 540 | 23201 | NR | 670 | 23596 | NR | 800 | 1296 | NR | 930 | 693 | NR |
| 415 | 658 | NR | 545 | 23916 | NR | 675 | 21412 | NR | 805 | 1239 | NR | 935 | 1009 | NR |
| 420 | 1015 | NR | 550 | 24774 | NR | 680 | 19353 | NR | 810 | 1094 | NR | 940 | 1041 | NR |
| 425 | 1715 | NR | 555 | 25531 | NR | 685 | 17528 | NR | 815 | 1156 | NR | 945 | 716 | NR |
| 430 | 3048 | NR | 560 | 26160 | NR | 690 | 15706 | NR | 820 | 966 | NR | 950 | 700 | NR |
| 435 | 5481 | NR | 565 | 26923 | NR | 695 | 13845 | NR | 825 | 931 | NR | 955 | 812 | NR |
| 440 | 9614 | NR | 570 | 27732 | NR | 700 | 12373 | NR | 830 | 938 | NR | 960 | 505 | NR |
| 445 | 14315 | NR | 575 | 28529 | NR | 705 | 10898 | NR | 835 | 822 | NR | 965 | 551 | NR |
| 450 | 14893 | NR | 580 | 29552 | NR | 710 | 9649 | NR | 840 | 838 | NR | 970 | 824 | NR |
| 455 | 11988 | NR | 585 | 30530 | NR | 715 | 8554 | NR | 845 | 759 | NR | 975 | 814 | NR |
| 460 | 10638 | NR | 590 | 31835 | NR | 720 | 7611 | NR | 850 | 712 | NR | 980 | 926 | NR |
| 465 | 9480 | NR | 595 | 32776 | NR | 725 | 6679 | NR | 855 | 651 | NR | 985 | 954 | NR |
| 470 | 8416 | NR | 600 | 33912 | NR | 730 | 5833 | NR | 860 | 789 | NR | 990 | 814 | NR |
| 475 | 8624 | NR | 605 | 35057 | NR | 735 | 5111 | NR | 865 | 715 | NR | 995 | 765 | NR |
| 480 | 9529 | NR | 610 | 35715 | NR | 740 | 4579 | NR | 870 | 935 | NR | 1000 | 954 | NR |
| 485 | 10656 | NR | 615 | 36371 | NR | 745 | 4054 | NR | 875 | 919 | NR | | | |

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

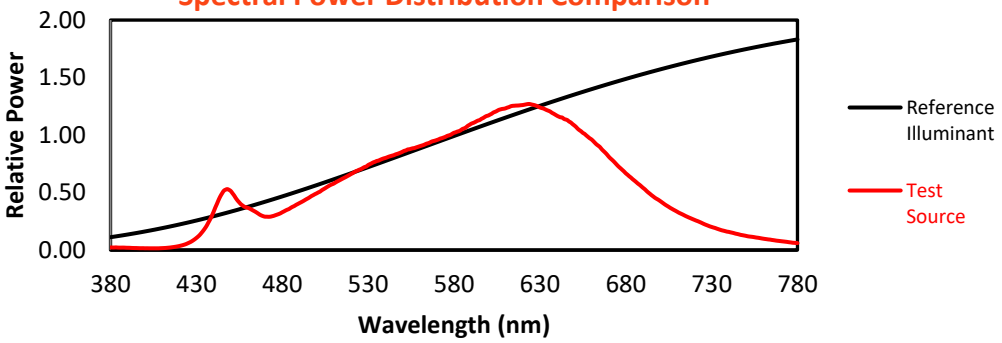
REPORT NUMBER: SP1-2106-271-2

# TM-30-18

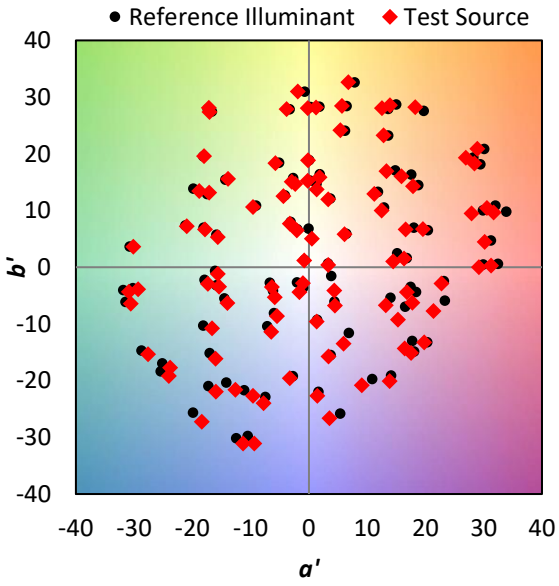
## Summary

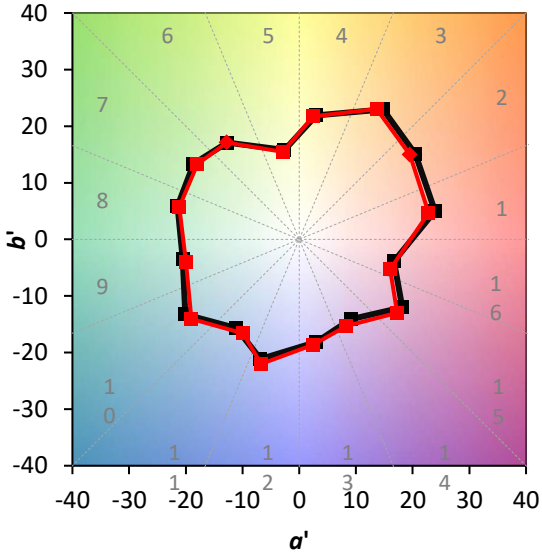
$R_f$ = 92.8
$R_g$ = 98
CIE $R_a$ = 92.3
$R_9$ = 58.9

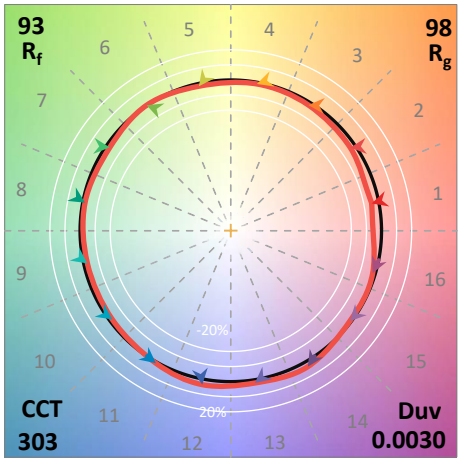
## Spectral Power Distribution Comparison

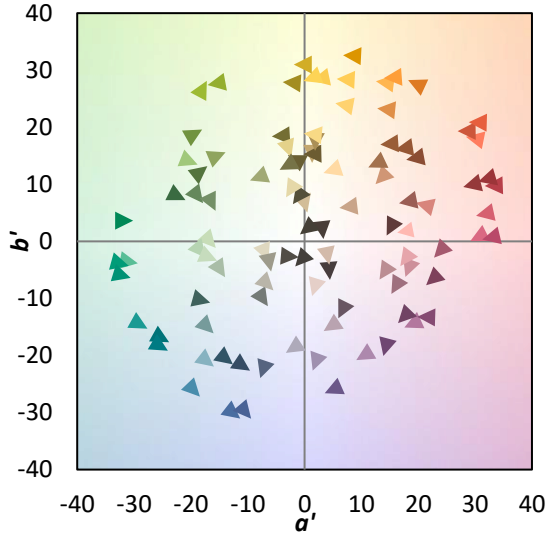



## Color Vector Graphics



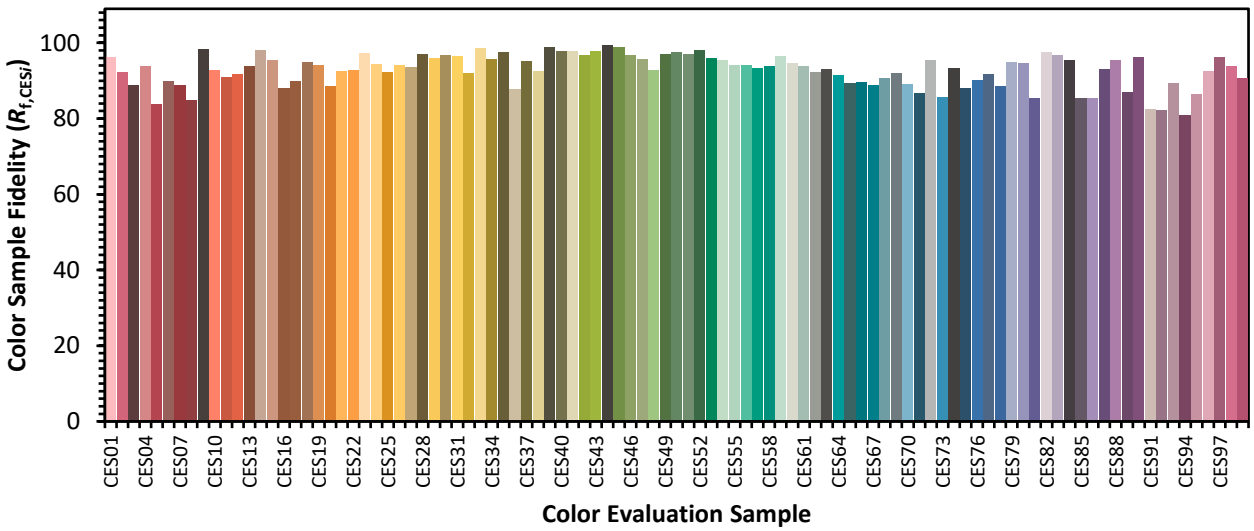
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Peachtree City, GA 30269

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

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 90 |
| CES02 = 63 | CES27 = 94 | CES52 = 98 | CES77 = 92 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 88 |
| CES04 = 70 | CES29 = 96 | CES54 = 95 | CES79 = 95 |
| CES05 = 50 | CES30 = 97 | CES55 = 94 | CES80 = 95 |
| CES06 = 51 | CES31 = 97 | CES56 = 94 | CES81 = 85 |
| CES07 = 43 | CES32 = 92 | CES57 = 93 | CES82 = 98 |
| CES08 = 42 | CES33 = 99 | CES58 = 94 | CES83 = 97 |
| CES09 = 29 | CES34 = 96 | CES59 = 96 | CES84 = 95 |
| CES10 = 76 | CES35 = 98 | CES60 = 95 | CES85 = 86 |
| CES11 = 58 | CES36 = 88 | CES61 = 94 | CES86 = 85 |
| CES12 = 65 | CES37 = 95 | CES62 = 92 | CES87 = 93 |
| CES13 = 44 | CES38 = 93 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 91 | CES89 = 87 |
| CES15 = 72 | CES40 = 98 | CES65 = 89 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 90 | CES91 = 82 |
| CES17 = 50 | CES42 = 97 | CES67 = 89 | CES92 = 82 |
| CES18 = 57 | CES43 = 98 | CES68 = 91 | CES93 = 89 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 81 |
| CES20 = 67 | CES45 = 99 | CES70 = 89 | CES95 = 86 |
| CES21 = 86 | CES46 = 97 | CES71 = 87 | CES96 = 93 |
| CES22 = 79 | CES47 = 96 | CES72 = 95 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 86 | CES98 = 94 |
| CES24 = 90 | CES49 = 97 | CES74 = 93 | CES99 = 91 |
| CES25 = 72 | CES50 = 98 | CES75 = 88 | |

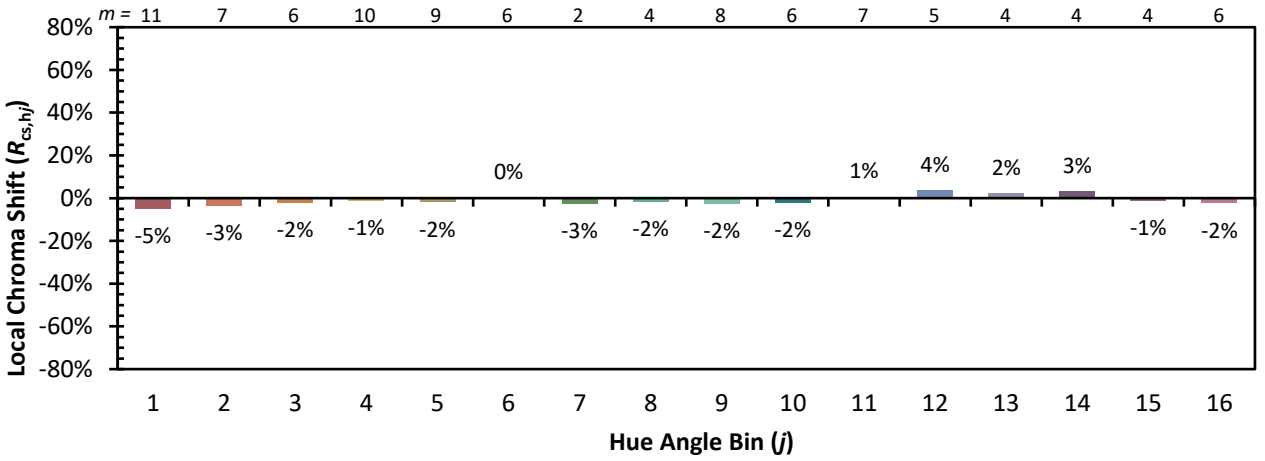


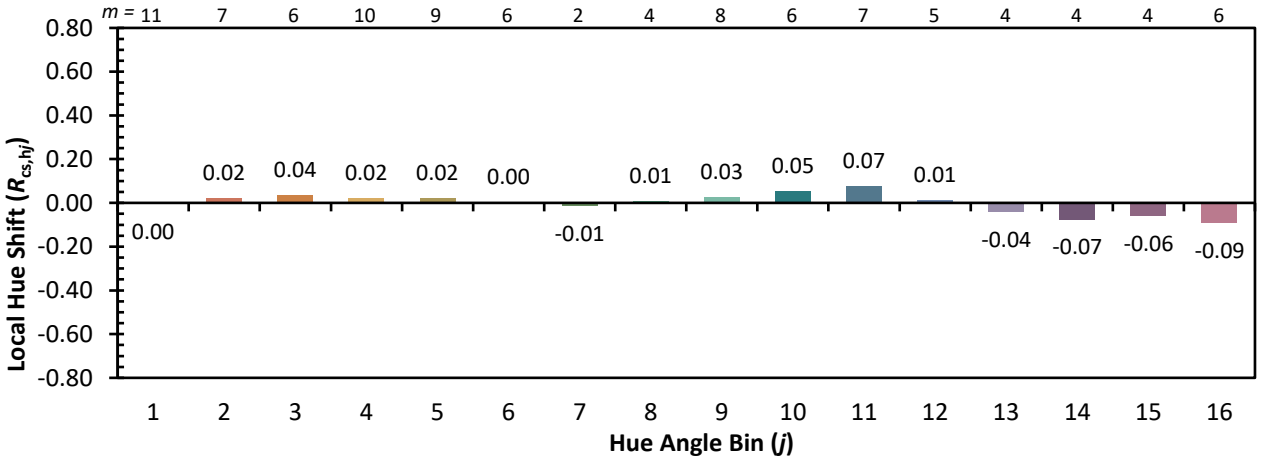
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Peachtree City, GA 30269

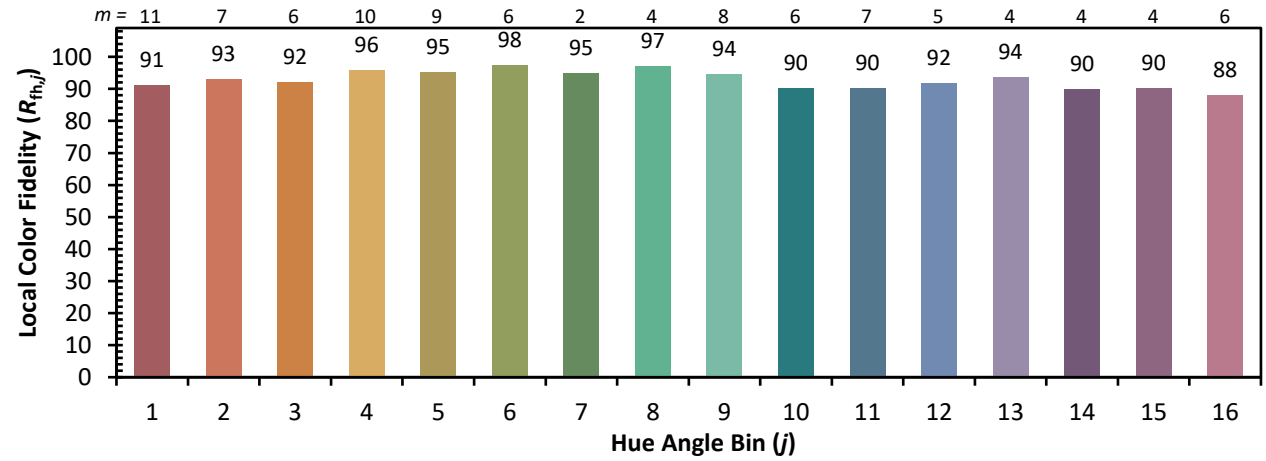
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## Color Rendition by Hue-Angle Bin



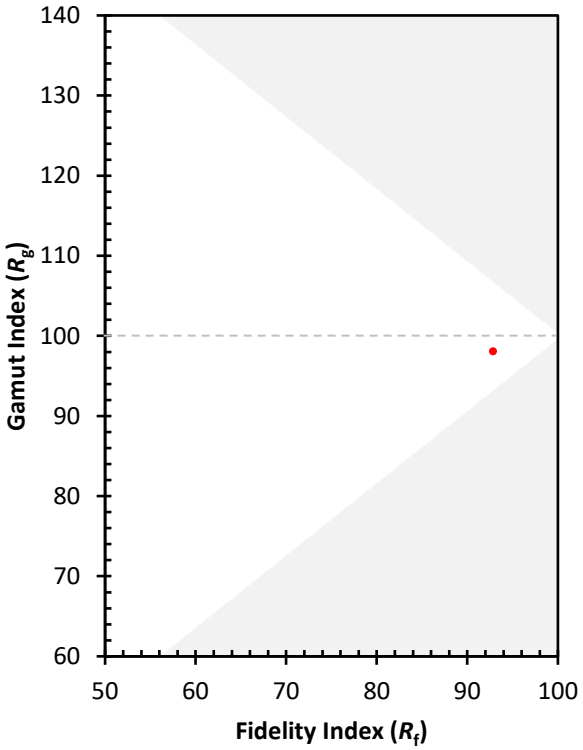



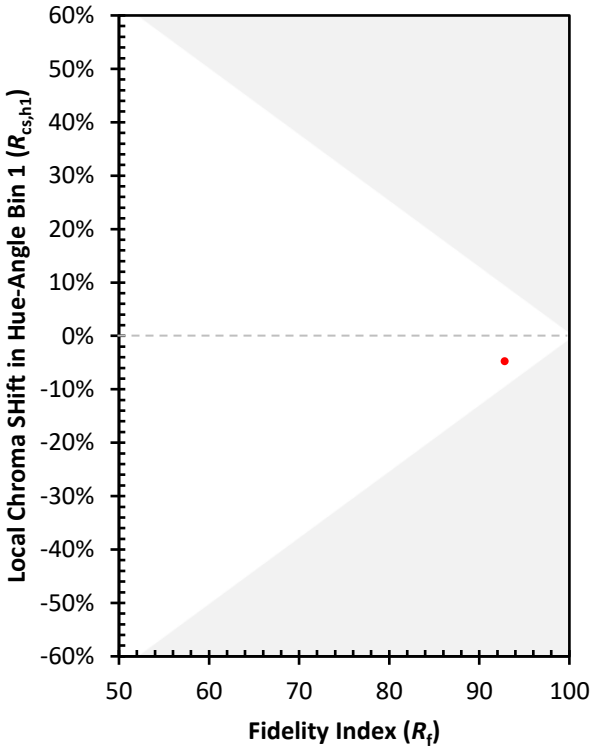
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### Measure Comparisons




(END OF REPORT)