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

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Scaled data based on original data using

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

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1502014

Luminaire Tested: GSS-SB5B-927-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1502014 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB5B-927-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 184W 90CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (130) 2700K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 13524.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 73.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

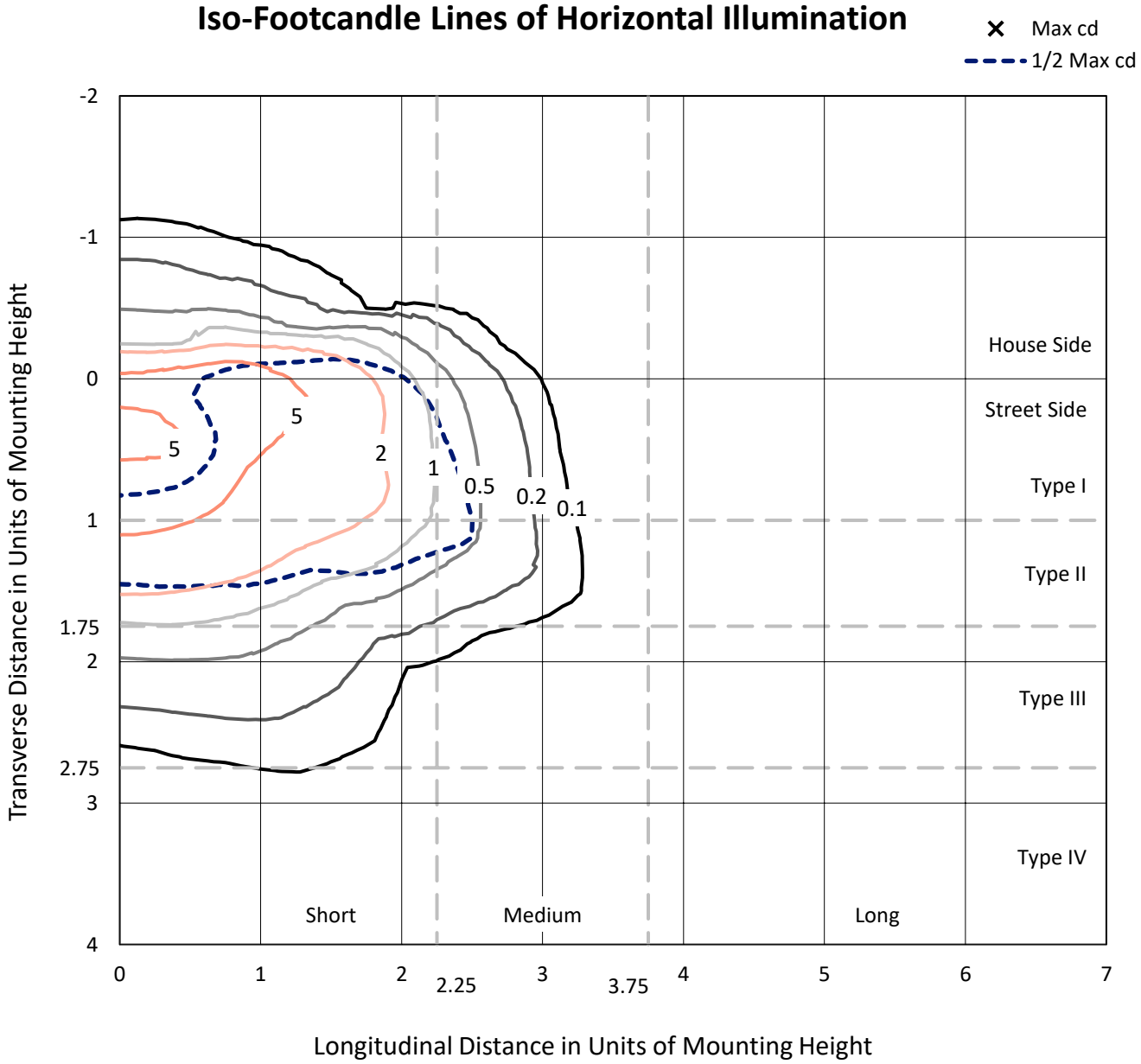
| | |
|---|---|
| Input Watts (W): | 184 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 11.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



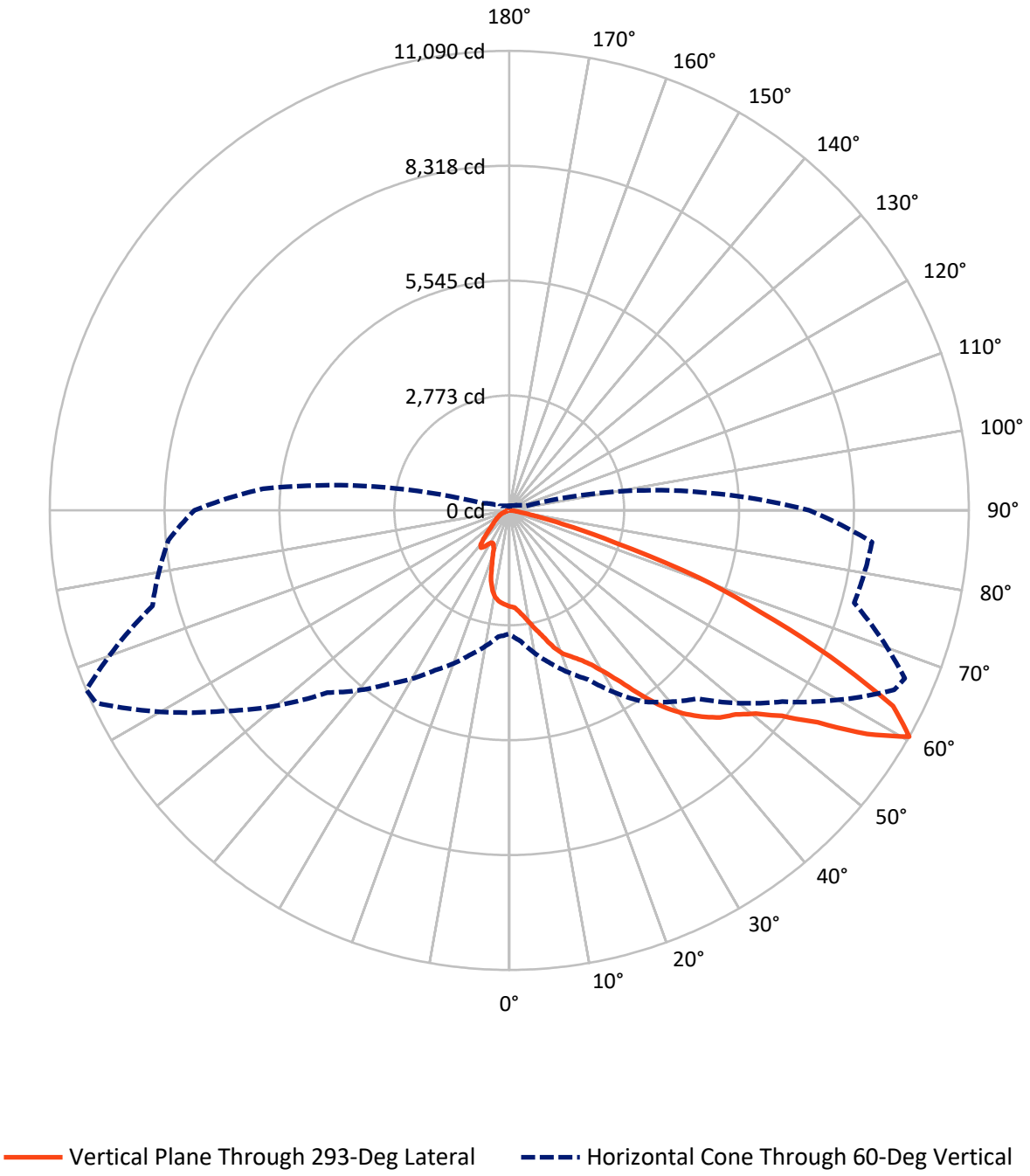

Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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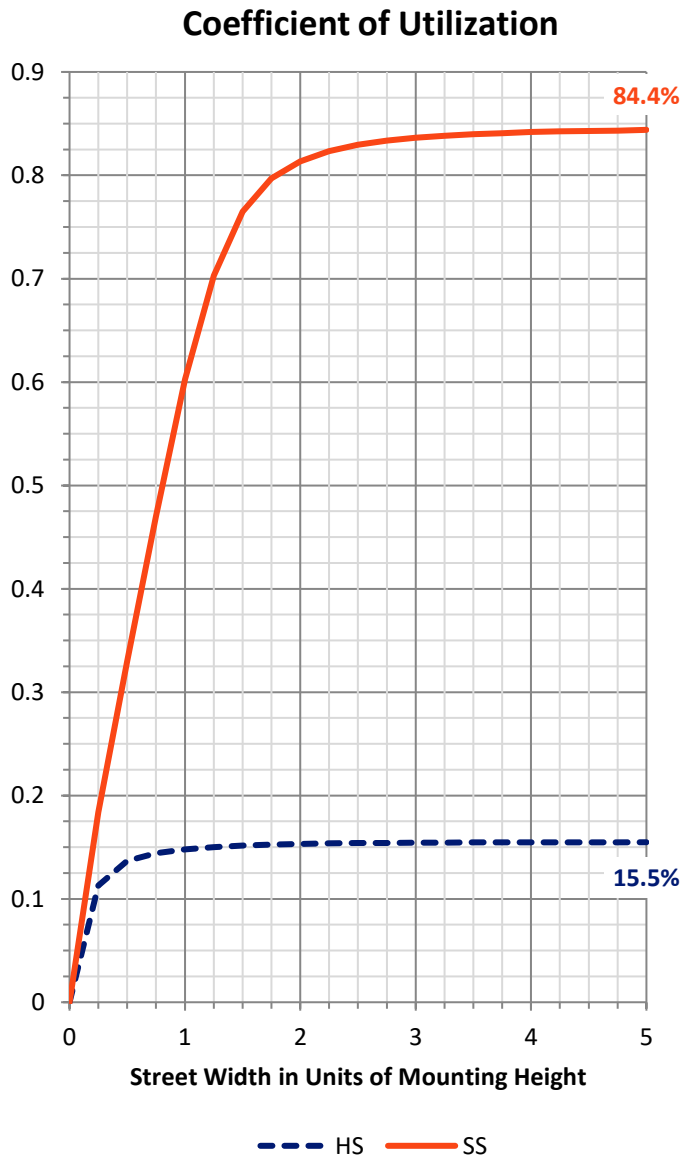
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2110.2 | 0.0 | 2110.2 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 11414.5 | 0.0 | 11414.5 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 13524.7 | 0.0 | 13524.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 209.9 | 1.6 |
| 10°-20° | 528.6 | 3.9 |
| 20°-30° | 986.8 | 7.3 |
| 30°-40° | 1957.0 | 14.5 |
| 40°-50° | 3120.1 | 23.1 |
| 50°-60° | 3727.8 | 27.6 |
| 60°-70° | 2443.8 | 18.1 |
| 70°-80° | 512.0 | 3.8 |
| 80°-90° | 38.7 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 13524.7 | 100.0 |
| 0°-180° | 13524.7 | 100.0 |



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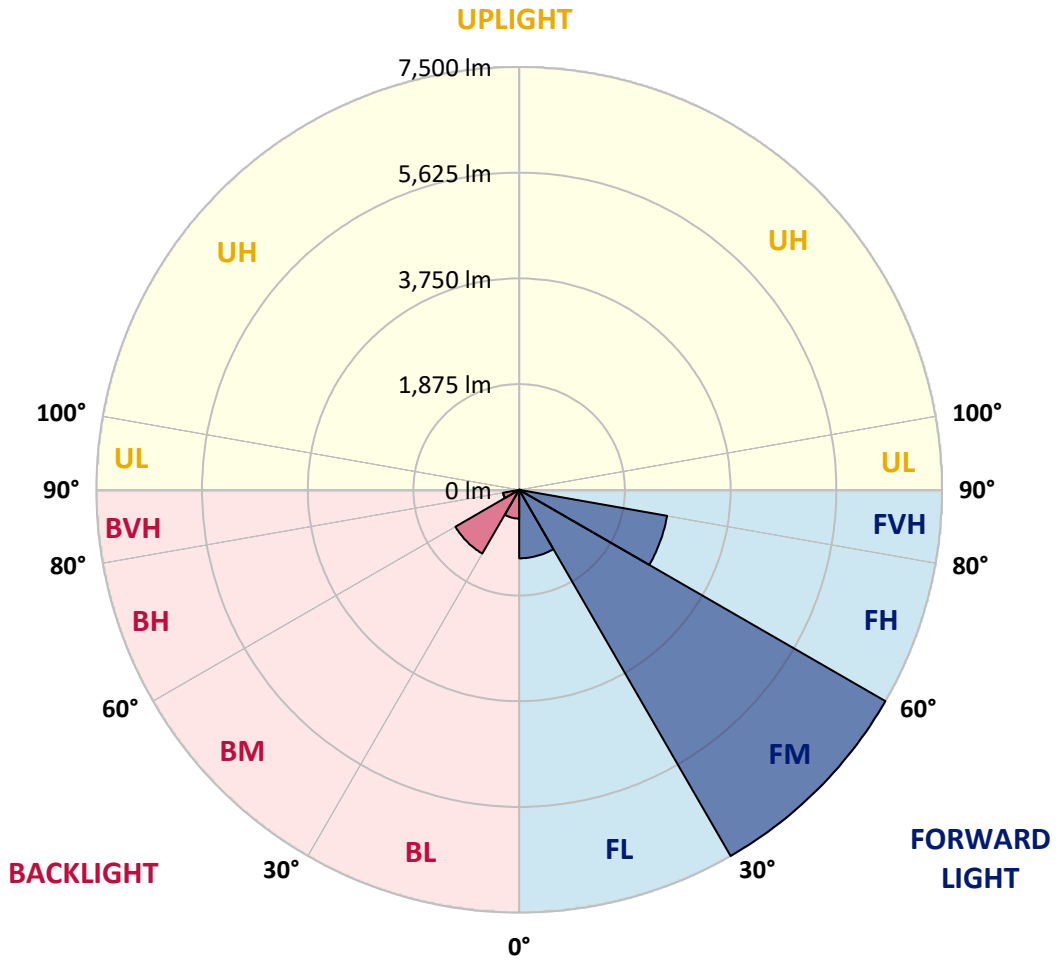
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1214.8 | 9.0 | | | |
| FM | (30°-60°) | 7499.9 | 55.5 | | | |
| FH | (60°-80°) | 2664.3 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 35.5 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 510.5 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1304.9 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 291.5 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

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



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 |
| 2.5° | 2435.4 | 2427.8 | 2416.5 | 2420.3 | 2416.5 | 2401.3 | 2378.6 | 2359.7 | 2374.8 | 2352.1 | 2336.9 |
| 5° | 2507.4 | 2507.4 | 2499.8 | 2499.8 | 2503.6 | 2496.0 | 2480.9 | 2454.3 | 2458.1 | 2439.2 | 2390.0 |
| 7.5° | 2507.4 | 2496.0 | 2514.9 | 2533.9 | 2568.0 | 2586.9 | 2594.5 | 2579.3 | 2586.9 | 2549.0 | 2484.6 |
| 10° | 2359.7 | 2352.1 | 2401.3 | 2473.3 | 2571.8 | 2658.9 | 2715.7 | 2719.5 | 2730.8 | 2693.0 | 2617.2 |
| 12.5° | 2045.3 | 2030.1 | 2128.6 | 2265.0 | 2465.7 | 2666.4 | 2825.5 | 2886.1 | 2912.6 | 2897.5 | 2791.4 |
| 15° | 1753.6 | 1772.6 | 1840.8 | 1988.5 | 2257.4 | 2564.2 | 2886.1 | 3086.9 | 3124.7 | 3143.7 | 3018.7 |
| 17.5° | 1723.3 | 1727.1 | 1749.9 | 1821.8 | 2026.3 | 2397.5 | 2893.7 | 3295.2 | 3348.2 | 3431.5 | 3261.1 |
| 20° | 1806.7 | 1799.1 | 1821.8 | 1844.5 | 1943.0 | 2249.8 | 2821.7 | 3495.9 | 3598.2 | 3776.2 | 3590.6 |
| 22.5° | 1962.0 | 1962.0 | 1973.3 | 1988.5 | 2037.7 | 2238.4 | 2791.4 | 3681.5 | 3855.7 | 4219.3 | 4003.5 |
| 25° | 2223.3 | 2193.0 | 2200.6 | 2181.6 | 2223.3 | 2374.8 | 2859.6 | 3829.2 | 4067.8 | 4711.7 | 4495.8 |
| 27.5° | 2628.6 | 2639.9 | 2571.8 | 2469.5 | 2492.2 | 2621.0 | 3026.3 | 3995.9 | 4287.5 | 5223.0 | 4995.8 |
| 30° | 3189.1 | 3170.2 | 3128.5 | 2927.8 | 2836.9 | 2950.5 | 3333.1 | 4268.6 | 4583.0 | 5870.7 | 5662.4 |
| 32.5° | 3628.5 | 3681.5 | 3609.5 | 3469.4 | 3329.3 | 3363.4 | 3764.8 | 4707.9 | 4942.8 | 6465.4 | 6351.7 |
| 35° | 4158.7 | 4158.7 | 4173.9 | 3976.9 | 3882.3 | 3874.7 | 4306.5 | 5185.2 | 5420.0 | 7003.2 | 7082.7 |
| 37.5° | 4874.6 | 4825.4 | 4742.0 | 4522.3 | 4450.4 | 4545.1 | 4814.0 | 5677.6 | 5931.3 | 7438.8 | 7650.9 |
| 40° | 5476.8 | 5510.9 | 5499.5 | 5181.4 | 5041.2 | 5143.5 | 5382.1 | 6098.0 | 6294.9 | 7719.1 | 8109.2 |
| 42.5° | 6067.7 | 6086.6 | 6037.4 | 5885.9 | 5681.3 | 5688.9 | 5885.9 | 6416.1 | 6616.9 | 7988.0 | 8541.0 |
| 45° | 6510.8 | 6507.0 | 6472.9 | 6435.1 | 6313.9 | 6188.9 | 6223.0 | 6768.4 | 6942.6 | 8075.1 | 8775.8 |
| 47.5° | 6651.0 | 6681.3 | 6711.6 | 6817.6 | 6900.9 | 6704.0 | 6529.8 | 6957.8 | 7116.8 | 8059.9 | 8862.9 |
| 50° | 6522.2 | 6586.6 | 6734.3 | 6893.4 | 7177.4 | 7162.3 | 6787.3 | 7162.3 | 7317.6 | 8143.3 | 8965.2 |
| 52.5° | 6234.3 | 6298.7 | 6495.7 | 6783.5 | 7211.5 | 7423.6 | 7264.5 | 7506.9 | 7688.8 | 8355.4 | 9177.3 |
| 55° | 5563.9 | 5590.4 | 5995.7 | 6374.5 | 7041.1 | 7310.0 | 7775.9 | 8090.2 | 8241.7 | 8612.9 | 9457.5 |
| 57.5° | 4529.9 | 4594.3 | 4992.0 | 5609.4 | 6563.8 | 7010.8 | 8067.5 | 9086.4 | 9082.6 | 8859.1 | 9518.1 |
| 60° | *2980.8* | *3170.2* | *3817.9* | *4499.6* | *5639.7* | *6423.7* | *8048.6* | *10252.9* | *10370.3* | *8616.7* | *8787.1* |
| 62.5° | 2276.3 | 2355.9 | 2723.3 | 3291.4 | 4173.9 | 5325.3 | 7923.6 | 10601.4 | 10692.3 | 7965.2 | 7692.5 |
| 65° | 1712.0 | 1810.5 | 2162.7 | 2670.2 | 2946.7 | 3609.5 | 7105.5 | 9215.1 | 9340.1 | 7109.3 | 5980.6 |
| 67.5° | 1049.2 | 1128.7 | 1598.4 | 2193.0 | 2230.9 | 2242.2 | 4795.1 | 6980.5 | 7025.9 | 5734.4 | 4026.2 |
| 70° | 700.7 | 780.2 | 1106.0 | 1685.5 | 1776.4 | 1291.6 | 2632.4 | 5283.6 | 5279.9 | 3923.9 | 2446.8 |
| 72.5° | 405.3 | 443.1 | 700.7 | 1242.3 | 1397.6 | 821.9 | 1314.3 | 3359.6 | 3211.9 | 1844.5 | 1143.8 |
| 75° | 231.0 | 257.6 | 386.3 | 799.2 | 981.0 | 522.7 | 518.9 | 1799.1 | 1590.8 | 950.7 | 624.9 |
| 77.5° | 140.1 | 151.5 | 212.1 | 522.7 | 590.9 | 352.2 | 287.9 | 837.1 | 806.8 | 556.8 | 329.5 |
| 80° | 68.2 | 79.5 | 128.8 | 306.8 | 378.8 | 189.4 | 174.2 | 329.5 | 352.2 | 306.8 | 174.2 |
| 82.5° | 22.7 | 30.3 | 72.0 | 117.4 | 246.2 | 75.8 | 72.0 | 181.8 | 193.2 | 181.8 | 83.3 |
| 85° | 11.4 | 15.2 | 34.1 | 37.9 | 94.7 | 37.9 | 26.5 | 79.5 | 98.5 | 60.6 | 34.1 |
| 87.5° | 0.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 7.6 | 7.6 | 7.6 | 7.6 |
| 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° | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 |
| 2.5° | 2325.6 | 2318.0 | 2302.8 | 2276.3 | 2272.5 | 2253.6 | 2223.3 | 2204.4 | 2189.2 | 2200.6 | 2204.4 |
| 5° | 2367.2 | 2348.3 | 2302.8 | 2230.9 | 2155.1 | 2079.4 | 2007.4 | 1924.1 | 1867.3 | 1859.7 | 1844.5 |
| 7.5° | 2443.0 | 2405.1 | 2306.6 | 2166.5 | 1973.3 | 1791.5 | 1579.4 | 1374.9 | 1272.6 | 1257.5 | 1223.4 |
| 10° | 2564.2 | 2499.8 | 2336.9 | 2052.9 | 1681.7 | 1302.9 | 981.0 | 761.3 | 636.3 | 613.6 | 621.2 |
| 12.5° | 2708.1 | 2617.2 | 2340.7 | 1859.7 | 1280.2 | 806.8 | 556.8 | 473.4 | 446.9 | 435.6 | 435.6 |
| 15° | 2893.7 | 2761.1 | 2336.9 | 1609.7 | 863.6 | 518.9 | 446.9 | 412.8 | 401.5 | 393.9 | 393.9 |
| 17.5° | 3128.5 | 2954.3 | 2310.4 | 1234.7 | 583.3 | 450.7 | 409.1 | 382.5 | 367.4 | 363.6 | 363.6 |
| 20° | 3405.0 | 3170.2 | 2249.8 | 920.4 | 488.6 | 420.4 | 386.3 | 352.2 | 340.9 | 333.3 | 333.3 |
| 22.5° | 3757.3 | 3431.5 | 2132.4 | 715.8 | 462.1 | 401.5 | 363.6 | 325.7 | 314.4 | 306.8 | 306.8 |
| 25° | 4166.3 | 3764.8 | 1977.1 | 643.9 | 458.3 | 386.3 | 340.9 | 303.0 | 291.6 | 287.9 | 284.1 |
| 27.5° | 4651.1 | 4120.9 | 1833.2 | 647.7 | 465.9 | 375.0 | 318.2 | 284.1 | 272.7 | 261.3 | 265.1 |
| 30° | 5223.0 | 4488.3 | 1715.8 | 693.1 | 473.4 | 363.6 | 303.0 | 272.7 | 261.3 | 246.2 | 246.2 |
| 32.5° | 5787.4 | 4920.0 | 1704.4 | 776.5 | 500.0 | 356.0 | 287.9 | 257.6 | 246.2 | 234.8 | 234.8 |
| 35° | 6366.9 | 5313.9 | 1768.8 | 886.3 | 553.0 | 344.7 | 268.9 | 242.4 | 231.0 | 223.5 | 219.7 |
| 37.5° | 6919.9 | 5628.3 | 1829.4 | 954.5 | 522.7 | 295.4 | 246.2 | 223.5 | 212.1 | 197.0 | 197.0 |
| 40° | 7287.3 | 5798.8 | 1840.8 | 901.4 | 431.8 | 265.1 | 223.5 | 200.7 | 185.6 | 178.0 | 174.2 |
| 42.5° | 7556.2 | 5908.6 | 1712.0 | 731.0 | 375.0 | 242.4 | 204.5 | 181.8 | 170.4 | 162.9 | 162.9 |
| 45° | 7666.0 | 5870.7 | 1492.3 | 556.8 | 344.7 | 223.5 | 185.6 | 166.7 | 159.1 | 151.5 | 151.5 |
| 47.5° | 7650.9 | 5696.5 | 1268.8 | 446.9 | 314.4 | 204.5 | 174.2 | 159.1 | 151.5 | 143.9 | 140.1 |
| 50° | 7624.4 | 5533.6 | 1041.6 | 397.7 | 280.3 | 193.2 | 162.9 | 151.5 | 140.1 | 132.6 | 128.8 |
| 52.5° | 7798.6 | 5480.6 | 863.6 | 363.6 | 261.3 | 185.6 | 159.1 | 143.9 | 132.6 | 125.0 | 125.0 |
| 55° | 7972.8 | 5503.3 | 678.0 | 340.9 | 242.4 | 181.8 | 155.3 | 140.1 | 128.8 | 117.4 | 117.4 |
| 57.5° | 7961.5 | 5404.9 | 515.1 | 318.2 | 227.3 | 178.0 | 151.5 | 136.4 | 117.4 | 109.8 | 109.8 |
| 60° | *7238.0* | *4821.6* | *401.5* | *291.6* | *208.3* | *166.7* | *140.1* | *128.8* | *109.8* | *98.5* | *98.5* |
| 62.5° | 6120.7 | 3791.3 | 329.5 | 257.6 | 185.6 | 151.5 | 128.8 | 117.4 | 98.5 | 79.5 | 79.5 |
| 65° | 4522.3 | 2734.6 | 265.1 | 223.5 | 170.4 | 132.6 | 117.4 | 102.3 | 79.5 | 64.4 | 60.6 |
| 67.5° | 3060.4 | 1681.7 | 212.1 | 185.6 | 151.5 | 113.6 | 98.5 | 87.1 | 72.0 | 53.0 | 49.2 |
| 70° | 1814.2 | 893.9 | 155.3 | 128.8 | 113.6 | 83.3 | 83.3 | 75.8 | 60.6 | 45.5 | 41.7 |
| 72.5° | 863.6 | 310.6 | 113.6 | 94.7 | 87.1 | 60.6 | 64.4 | 64.4 | 49.2 | 34.1 | 30.3 |
| 75° | 439.4 | 151.5 | 75.8 | 68.2 | 56.8 | 45.5 | 53.0 | 49.2 | 34.1 | 22.7 | 22.7 |
| 77.5° | 250.0 | 106.1 | 53.0 | 45.5 | 37.9 | 30.3 | 34.1 | 30.3 | 18.9 | 11.4 | 11.4 |
| 80° | 140.1 | 75.8 | 34.1 | 30.3 | 22.7 | 18.9 | 18.9 | 15.2 | 11.4 | 3.8 | 3.8 |
| 82.5° | 53.0 | 45.5 | 22.7 | 15.2 | 11.4 | 11.4 | 7.6 | 7.6 | 3.8 | 0.0 | 0.0 |
| 85° | 22.7 | 11.4 | 11.4 | 7.6 | 7.6 | 3.8 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.8 | 3.8 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 |
| 2.5° | 2174.1 | 2181.6 | 2189.2 | 2219.5 | 2227.1 | 2249.8 | 2268.7 | 2291.5 | 2295.3 | 2325.6 | 2325.6 |
| 5° | 1874.8 | 1871.1 | 1935.4 | 2030.1 | 2090.7 | 2174.1 | 2238.4 | 2306.6 | 2344.5 | 2393.7 | 2416.5 |
| 7.5° | 1242.3 | 1337.0 | 1480.9 | 1647.6 | 1863.5 | 2064.2 | 2215.7 | 2348.3 | 2439.2 | 2496.0 | 2518.7 |
| 10° | 617.4 | 670.4 | 821.9 | 1094.6 | 1462.0 | 1871.1 | 2193.0 | 2439.2 | 2586.9 | 2651.3 | 2693.0 |
| 12.5° | 435.6 | 446.9 | 473.4 | 621.2 | 973.4 | 1552.9 | 2121.0 | 2537.7 | 2742.2 | 2863.4 | 2916.4 |
| 15° | 390.1 | 397.7 | 409.1 | 450.7 | 602.2 | 1159.0 | 1992.3 | 2647.5 | 2984.6 | 3124.7 | 3192.9 |
| 17.5° | 359.8 | 363.6 | 375.0 | 409.1 | 473.4 | 787.8 | 1783.9 | 2764.9 | 3276.2 | 3446.7 | 3575.5 |
| 20° | 333.3 | 333.3 | 344.7 | 386.3 | 439.4 | 606.0 | 1484.7 | 2897.5 | 3647.4 | 3893.6 | 4022.4 |
| 22.5° | 303.0 | 310.6 | 318.2 | 363.6 | 428.0 | 553.0 | 1204.4 | 2999.7 | 4060.3 | 4359.5 | 4511.0 |
| 25° | 280.3 | 287.9 | 295.4 | 340.9 | 416.6 | 553.0 | 1041.6 | 3064.1 | 4522.3 | 4878.4 | 5086.7 |
| 27.5° | 261.3 | 268.9 | 280.3 | 325.7 | 405.3 | 575.7 | 977.2 | 3083.1 | 5026.1 | 5488.2 | 5768.5 |
| 30° | 246.2 | 253.8 | 265.1 | 314.4 | 412.8 | 602.2 | 999.9 | 3056.6 | 5537.4 | 6116.9 | 6450.2 |
| 32.5° | 231.0 | 238.6 | 250.0 | 303.0 | 412.8 | 636.3 | 1075.7 | 3003.5 | 6033.6 | 6745.6 | 7154.7 |
| 35° | 219.7 | 223.5 | 227.3 | 272.7 | 375.0 | 632.5 | 1170.4 | 2950.5 | 6533.5 | 7366.8 | 7844.0 |
| 37.5° | 197.0 | 200.7 | 208.3 | 234.8 | 299.2 | 575.7 | 1189.3 | 2886.1 | 6927.5 | 7889.5 | 8416.0 |
| 40° | 174.2 | 181.8 | 189.4 | 215.9 | 250.0 | 465.9 | 1106.0 | 2749.8 | 7135.8 | 8291.0 | 8931.1 |
| 42.5° | 159.1 | 162.9 | 170.4 | 197.0 | 231.0 | 371.2 | 928.0 | 2511.2 | 7321.4 | 8563.7 | 9306.0 |
| 45° | 147.7 | 151.5 | 159.1 | 178.0 | 215.9 | 321.9 | 731.0 | 2219.5 | 7336.5 | 8650.8 | 9487.8 |
| 47.5° | 136.4 | 140.1 | 143.9 | 162.9 | 208.3 | 287.9 | 560.6 | 1954.4 | 7332.7 | 8764.4 | 9643.1 |
| 50° | 128.8 | 132.6 | 140.1 | 155.3 | 197.0 | 257.6 | 462.1 | 1738.5 | 7491.8 | 9010.6 | 9957.5 |
| 52.5° | 125.0 | 125.0 | 136.4 | 151.5 | 185.6 | 234.8 | 386.3 | 1545.3 | 7575.1 | 9253.0 | 10184.8 |
| 55° | 117.4 | 121.2 | 128.8 | 143.9 | 174.2 | 223.5 | 329.5 | 1302.9 | 7613.0 | 9374.2 | 10226.4 |
| 57.5° | 109.8 | 113.6 | 125.0 | 136.4 | 166.7 | 212.1 | 284.1 | 973.4 | 7071.4 | 8741.7 | 9529.5 |
| 60° | *98.5* | *106.1* | *121.2* | *132.6* | *155.3* | *193.2* | *250.0* | *659.0* | *5965.4* | *7597.8* | *8256.9* |
| 62.5° | 79.5 | 94.7 | 109.8 | 117.4 | 140.1 | 162.9 | 212.1 | 439.4 | 4764.8 | 6287.4 | 7037.3 |
| 65° | 60.6 | 79.5 | 90.9 | 102.3 | 117.4 | 136.4 | 178.0 | 299.2 | 3177.8 | 4230.7 | 5075.3 |
| 67.5° | 53.0 | 68.2 | 75.8 | 83.3 | 98.5 | 117.4 | 143.9 | 208.3 | 1927.9 | 2541.5 | 3374.7 |
| 70° | 41.7 | 56.8 | 64.4 | 60.6 | 75.8 | 90.9 | 102.3 | 140.1 | 984.8 | 1378.7 | 1920.3 |
| 72.5° | 30.3 | 45.5 | 49.2 | 49.2 | 45.5 | 64.4 | 75.8 | 98.5 | 428.0 | 670.4 | 871.1 |
| 75° | 22.7 | 30.3 | 34.1 | 30.3 | 26.5 | 41.7 | 53.0 | 64.4 | 280.3 | 401.5 | 507.5 |
| 77.5° | 11.4 | 11.4 | 18.9 | 18.9 | 11.4 | 22.7 | 26.5 | 37.9 | 159.1 | 234.8 | 291.6 |
| 80° | 3.8 | 0.0 | 0.0 | 3.8 | 0.0 | 7.6 | 11.4 | 18.9 | 83.3 | 125.0 | 181.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 41.7 | 37.9 | 94.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 | 22.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1502014
CATALOG NUMBER: GSS-SB5B-927-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 | 2318.0 |
| 2.5° | 2344.5 | 2344.5 | 2359.7 | 2382.4 | 2393.7 | 2401.3 | 2405.1 | 2412.7 | 2443.0 | 2435.4 |
| 5° | 2443.0 | 2450.6 | 2461.9 | 2484.6 | 2511.2 | 2503.6 | 2503.6 | 2503.6 | 2522.5 | 2507.4 |
| 7.5° | 2571.8 | 2594.5 | 2598.3 | 2624.8 | 2605.8 | 2568.0 | 2545.2 | 2511.2 | 2507.4 | 2507.4 |
| 10° | 2780.1 | 2772.5 | 2772.5 | 2738.4 | 2670.2 | 2560.4 | 2461.9 | 2393.7 | 2355.9 | 2359.7 |
| 12.5° | 3003.5 | 2973.2 | 2977.0 | 2852.0 | 2658.9 | 2416.5 | 2215.7 | 2068.0 | 2056.6 | 2045.3 |
| 15° | 3280.0 | 3200.5 | 3185.3 | 2897.5 | 2488.4 | 2117.2 | 1920.3 | 1802.9 | 1765.0 | 1753.6 |
| 17.5° | 3673.9 | 3473.2 | 3401.2 | 2817.9 | 2265.0 | 1931.7 | 1783.9 | 1730.9 | 1727.1 | 1723.3 |
| 20° | 4090.6 | 3692.9 | 3556.5 | 2700.5 | 2189.2 | 1935.4 | 1825.6 | 1810.5 | 1802.9 | 1806.7 |
| 22.5° | 4575.4 | 3833.0 | 3658.8 | 2719.5 | 2257.4 | 2060.4 | 1973.3 | 1962.0 | 1954.4 | 1962.0 |
| 25° | 5075.3 | 3995.9 | 3780.0 | 2871.0 | 2461.9 | 2291.5 | 2189.2 | 2166.5 | 2189.2 | 2223.3 |
| 27.5° | 5579.1 | 4215.6 | 4018.6 | 3170.2 | 2791.4 | 2605.8 | 2507.4 | 2590.7 | 2624.8 | 2628.6 |
| 30° | 6026.0 | 4522.3 | 4340.5 | 3590.6 | 3166.4 | 2980.8 | 2999.7 | 3105.8 | 3147.5 | 3189.1 |
| 32.5° | 6435.1 | 4931.4 | 4791.3 | 4067.8 | 3651.2 | 3541.4 | 3530.0 | 3609.5 | 3655.0 | 3628.5 |
| 35° | 6847.9 | 5465.5 | 5329.1 | 4586.7 | 4245.9 | 4155.0 | 4060.3 | 4215.6 | 4200.4 | 4158.7 |
| 37.5° | 7238.0 | 6003.3 | 5878.3 | 5143.5 | 4791.3 | 4632.2 | 4617.0 | 4757.2 | 4882.2 | 4874.6 |
| 40° | 7518.3 | 6438.9 | 6287.4 | 5696.5 | 5363.2 | 5226.8 | 5306.4 | 5548.8 | 5518.5 | 5476.8 |
| 42.5° | 7775.9 | 6810.0 | 6673.7 | 6181.3 | 5832.8 | 5893.4 | 5965.4 | 6128.3 | 6109.3 | 6067.7 |
| 45° | 7897.1 | 7128.2 | 7010.8 | 6548.7 | 6378.3 | 6571.4 | 6567.6 | 6628.2 | 6526.0 | 6510.8 |
| 47.5° | 8067.5 | 7355.4 | 7234.2 | 6878.2 | 7029.7 | 7109.3 | 6885.8 | 6821.4 | 6726.7 | 6651.0 |
| 50° | 8381.9 | 7707.7 | 7586.5 | 7378.2 | 7506.9 | 7260.8 | 6988.1 | 6847.9 | 6654.7 | 6522.2 |
| 52.5° | 8749.3 | 8241.7 | 8135.7 | 8052.4 | 7692.5 | 7185.0 | 6836.5 | 6582.8 | 6348.0 | 6234.3 |
| 55° | 9211.4 | 9029.5 | 8953.8 | 8495.5 | 7525.9 | 6874.4 | 6465.4 | 5991.9 | 5670.0 | 5563.9 |
| 57.5° | 9362.9 | 10184.8 | 10158.2 | 8567.5 | 7060.0 | 6310.1 | 5571.5 | 4931.4 | 4598.1 | 4529.9 |
| 60° | 8915.9 | 11090.0 | 10995.3 | 8446.3 | 6215.4 | 5120.8 | 4257.2 | 3602.0 | 3060.4 | 2980.8 |
| 62.5° | 8344.0 | 10396.9 | 10362.8 | 7836.5 | 4734.5 | 3670.1 | 3181.6 | 2568.0 | 2336.9 | 2276.3 |
| 65° | 7147.1 | 8506.9 | 8522.0 | 6287.4 | 2996.0 | 2636.1 | 2613.4 | 2041.5 | 1757.4 | 1712.0 |
| 67.5° | 5503.3 | 6526.0 | 6419.9 | 3954.2 | 1746.1 | 2109.7 | 2086.9 | 1492.3 | 1079.5 | 1049.2 |
| 70° | 3215.6 | 4859.4 | 4689.0 | 2056.6 | 1155.2 | 1761.2 | 1605.9 | 1049.2 | 734.8 | 700.7 |
| 72.5° | 1420.3 | 2674.0 | 2871.0 | 905.2 | 814.3 | 1401.4 | 1159.0 | 643.9 | 412.8 | 405.3 |
| 75° | 787.8 | 1325.6 | 1386.2 | 393.9 | 571.9 | 996.1 | 700.7 | 359.8 | 234.8 | 231.0 |
| 77.5° | 473.4 | 587.1 | 571.9 | 253.8 | 428.0 | 636.3 | 424.2 | 204.5 | 147.7 | 140.1 |
| 80° | 265.1 | 268.9 | 227.3 | 185.6 | 253.8 | 356.0 | 238.6 | 128.8 | 68.2 | 68.2 |
| 82.5° | 162.9 | 147.7 | 117.4 | 56.8 | 68.2 | 215.9 | 87.1 | 72.0 | 22.7 | 22.7 |
| 85° | 68.2 | 45.5 | 30.3 | 11.4 | 26.5 | 56.8 | 30.3 | 34.1 | 11.4 | 11.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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: SP1-2106-271-1

Luminaire Tested: GFLD-SA1-A-927-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

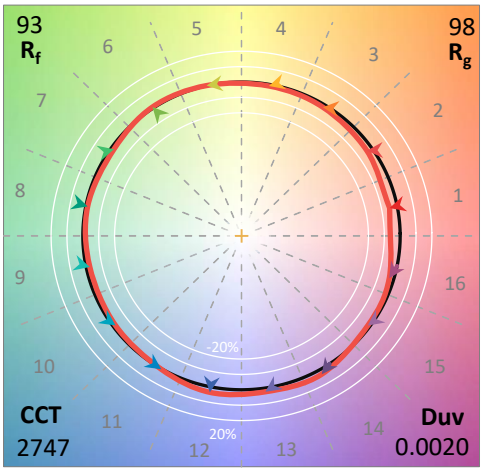
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/16/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-927-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2747 | CRI (Ra): | 92.5 | | |
| CIE u': | 0.2598 | R1: | 92.3 | R9: | 58.3 |
| CIE v': | 0.5293 | R2: | 95.5 | R10: | 88.5 |
| Duv: | 0.0020 | R3: | 97.5 | R11: | 93.7 |
| CIE x: | 0.4594 | R4: | 93.1 | R12: | 84.9 |
| CIE y: | 0.4160 | R5: | 91.8 | R13: | 93.0 |
| CIE z: | 0.1246 | R6: | 95.1 | R14: | 97.8 |
| Peak Wavelength (nm): | 624 | R7: | 92.9 | | |
| Dominant Wavelength (nm): | 583 | R8: | 81.7 | | |
| Purity: | 63 | | | | |

| | |
|---|---|
| Rf: | 93.1 |
| Rg: | 98.2 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 198M |
| 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

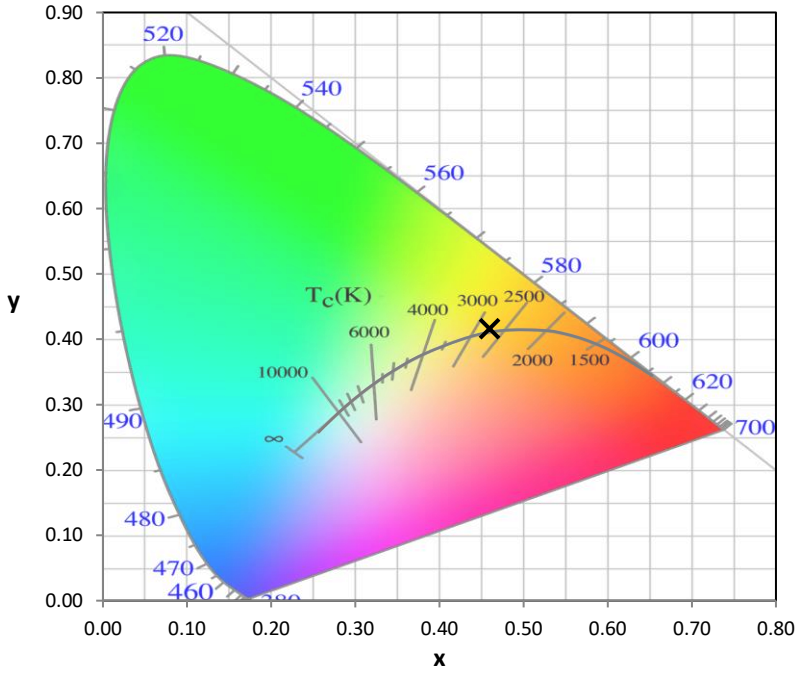
REPORT NUMBER: SP1-2106-271-1

| 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 |

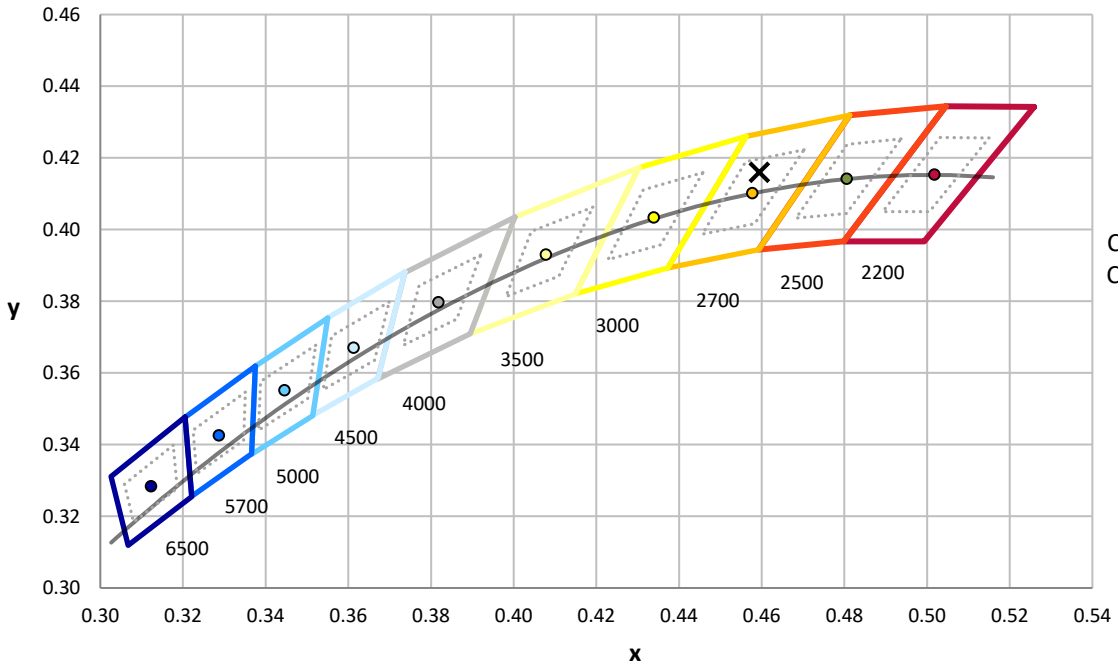
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-1

## CIE 1931 Chromaticity Diagram




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



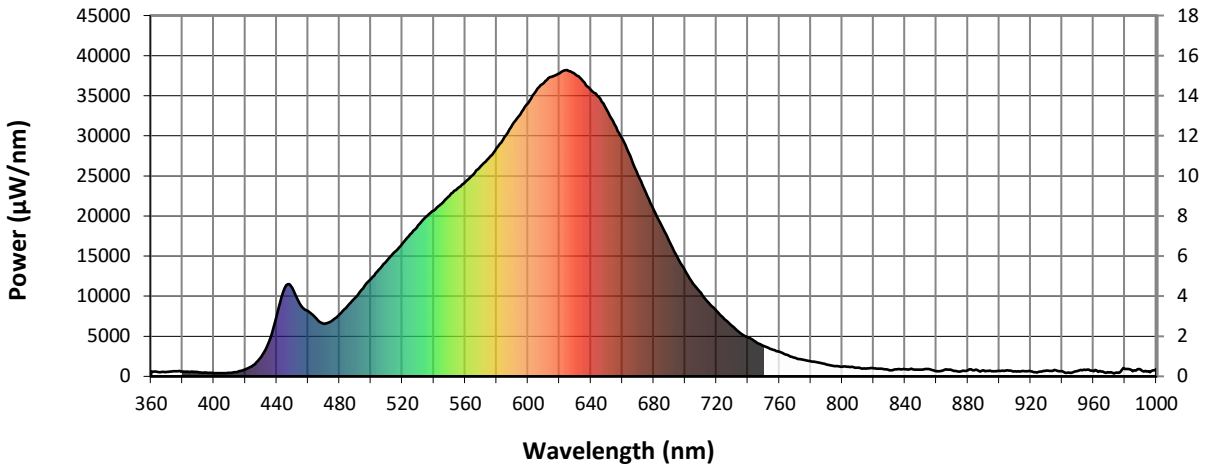

CCT = 2747K
CIE x = 0.4594
CIE y = 0.4160
Duv = 0.0020

Point lies inside the ANSI 2700K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-1

## Photopic Flux vs. Wavelength



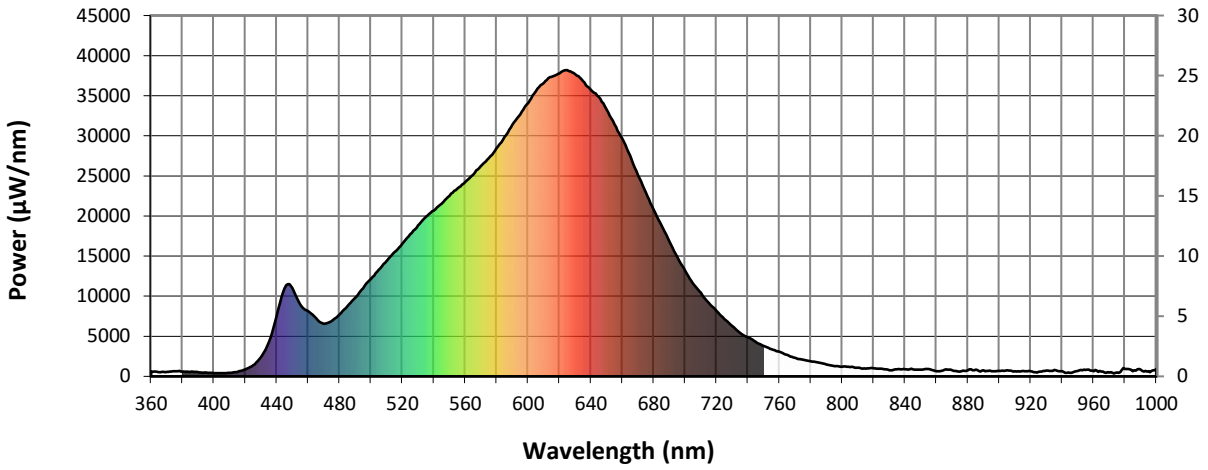

######

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-1

## Scotopic Flux vs. Wavelength



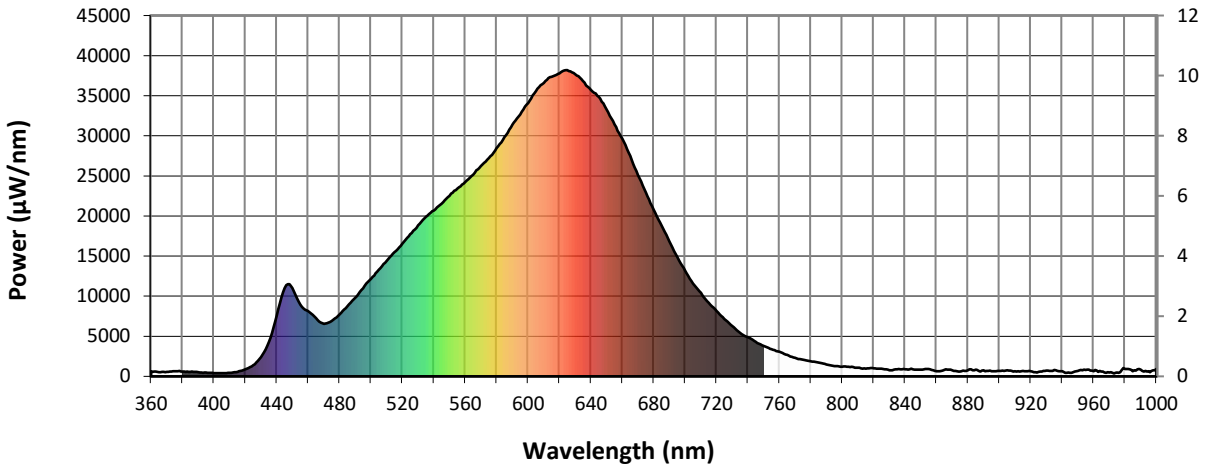

**Scotopic Lumens: 2290.1** **S/P: 1.28**

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 849.3** **S/P: 0.48**

| 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 | 649 | NR | 490 | 9819 | NR | 620 | 37806 | NR | 750 | 3792 | NR | 880 | 778 | NR |
| 365 | 535 | NR | 495 | 10995 | NR | 625 | 38173 | NR | 755 | 3383 | NR | 885 | 829 | NR |
| 370 | 546 | NR | 500 | 12186 | NR | 630 | 37677 | NR | 760 | 3071 | NR | 890 | 745 | NR |
| 375 | 624 | NR | 505 | 13274 | NR | 635 | 36852 | NR | 765 | 2656 | NR | 895 | 648 | NR |
| 380 | 611 | NR | 510 | 14396 | NR | 640 | 35711 | NR | 770 | 2297 | NR | 900 | 661 | NR |
| 385 | 569 | NR | 515 | 15467 | NR | 645 | 34820 | NR | 775 | 2076 | NR | 905 | 740 | NR |
| 390 | 512 | NR | 520 | 16543 | NR | 650 | 33278 | NR | 780 | 1860 | NR | 910 | 635 | NR |
| 395 | 465 | NR | 525 | 17716 | NR | 655 | 31397 | NR | 785 | 1717 | NR | 915 | 683 | NR |
| 400 | 418 | NR | 530 | 18837 | NR | 660 | 29663 | NR | 790 | 1494 | NR | 920 | 620 | NR |
| 405 | 411 | NR | 535 | 19916 | NR | 665 | 27479 | NR | 795 | 1276 | NR | 925 | 580 | NR |
| 410 | 439 | NR | 540 | 20679 | NR | 670 | 25115 | NR | 800 | 1183 | NR | 930 | 717 | NR |
| 415 | 565 | NR | 545 | 21563 | NR | 675 | 22916 | NR | 805 | 1161 | NR | 935 | 780 | NR |
| 420 | 866 | NR | 550 | 22521 | NR | 680 | 20799 | NR | 810 | 1065 | NR | 940 | 630 | NR |
| 425 | 1393 | NR | 555 | 23411 | NR | 685 | 18810 | NR | 815 | 970 | NR | 945 | 433 | NR |
| 430 | 2399 | NR | 560 | 24238 | NR | 690 | 16831 | NR | 820 | 1013 | NR | 950 | 676 | NR |
| 435 | 4305 | NR | 565 | 25148 | NR | 695 | 14867 | NR | 825 | 970 | NR | 955 | 802 | NR |
| 440 | 7544 | NR | 570 | 26216 | NR | 700 | 13210 | NR | 830 | 769 | NR | 960 | 645 | NR |
| 445 | 11003 | NR | 575 | 27219 | NR | 705 | 11593 | NR | 835 | 894 | NR | 965 | 620 | NR |
| 450 | 11015 | NR | 580 | 28466 | NR | 710 | 10403 | NR | 840 | 893 | NR | 970 | 474 | NR |
| 455 | 8956 | NR | 585 | 29834 | NR | 715 | 9162 | NR | 845 | 864 | NR | 975 | 478 | NR |
| 460 | 8133 | NR | 590 | 31413 | NR | 720 | 8146 | NR | 850 | 828 | NR | 980 | 905 | NR |
| 465 | 7252 | NR | 595 | 32655 | NR | 725 | 7155 | NR | 855 | 921 | NR | 985 | 639 | NR |
| 470 | 6556 | NR | 600 | 34084 | NR | 730 | 6272 | NR | 860 | 633 | NR | 990 | 838 | NR |
| 475 | 6915 | NR | 605 | 35555 | NR | 735 | 5418 | NR | 865 | 816 | NR | 995 | 621 | NR |
| 480 | 7734 | NR | 610 | 36593 | NR | 740 | 4870 | NR | 870 | 767 | NR | 1000 | 903 | NR |
| 485 | 8748 | NR | 615 | 37350 | NR | 745 | 4295 | NR | 875 | 601 | NR | | | |

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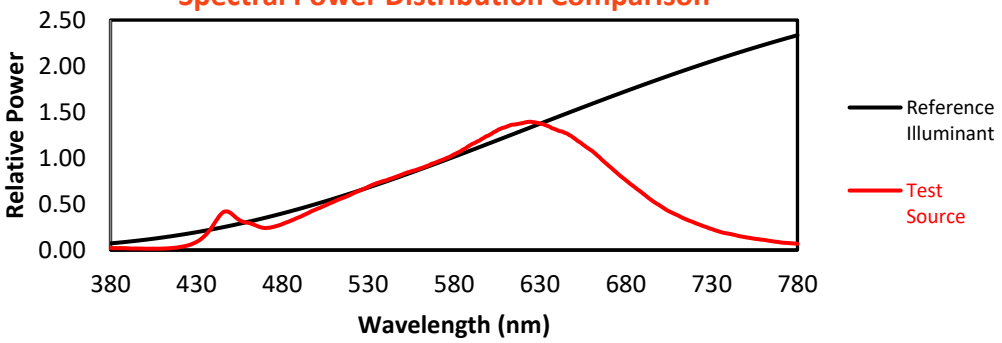
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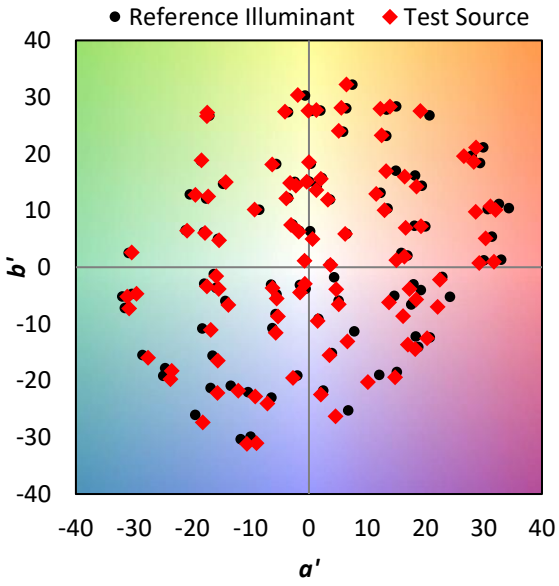
## Summary

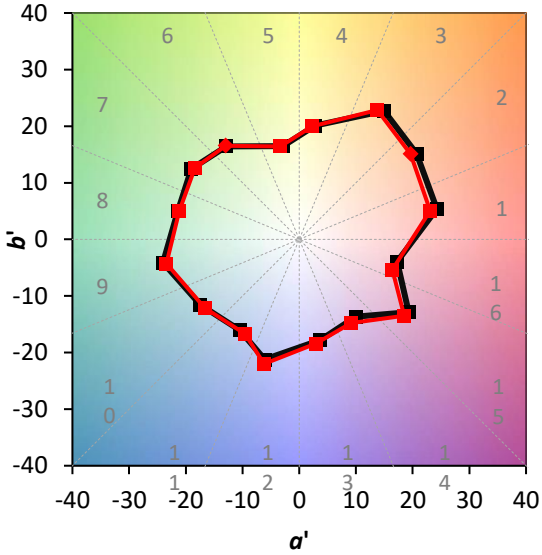
$R_f$ = 93.1
$R_g$ = 98.2
CIE $R_a$ = 92.5
$R_9$ = 58.3

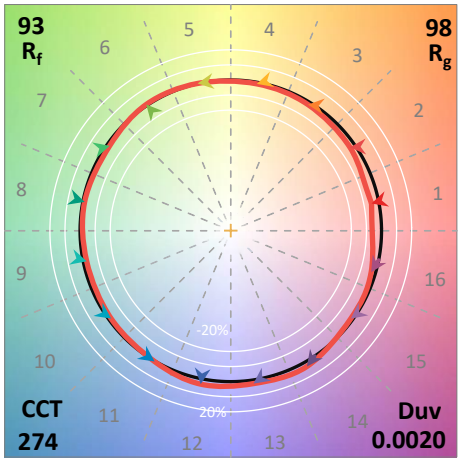
## Spectral Power Distribution Comparison

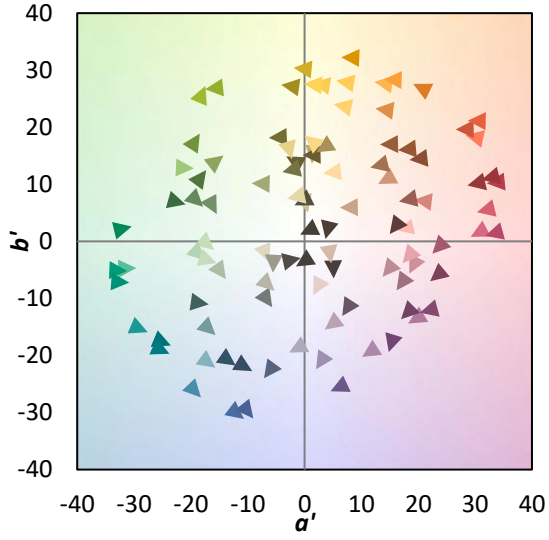



## Color Vector Graphics



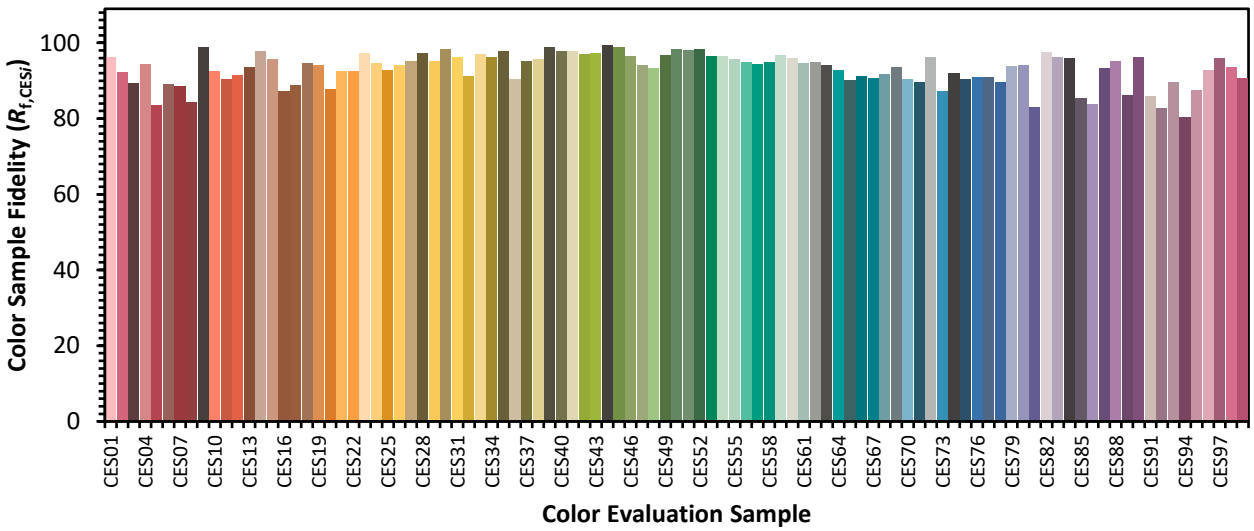
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 94 | CES51 = 98 | CES76 = 91 |
| CES02 = 64 | CES27 = 95 | CES52 = 98 | CES77 = 91 |
| CES03 = 32 | CES28 = 97 | CES53 = 96 | CES78 = 90 |
| CES04 = 70 | CES29 = 95 | CES54 = 96 | CES79 = 94 |
| CES05 = 51 | CES30 = 98 | CES55 = 96 | CES80 = 94 |
| CES06 = 52 | CES31 = 96 | CES56 = 95 | CES81 = 83 |
| CES07 = 44 | CES32 = 91 | CES57 = 94 | CES82 = 97 |
| CES08 = 43 | CES33 = 97 | CES58 = 95 | CES83 = 96 |
| CES09 = 29 | CES34 = 96 | CES59 = 97 | CES84 = 96 |
| CES10 = 76 | CES35 = 98 | CES60 = 96 | CES85 = 85 |
| CES11 = 59 | CES36 = 91 | CES61 = 95 | CES86 = 84 |
| CES12 = 66 | CES37 = 95 | CES62 = 95 | CES87 = 93 |
| CES13 = 44 | CES38 = 96 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 99 | CES64 = 93 | CES89 = 86 |
| CES15 = 72 | CES40 = 98 | CES65 = 90 | CES90 = 96 |
| CES16 = 48 | CES41 = 98 | CES66 = 91 | CES91 = 86 |
| CES17 = 50 | CES42 = 97 | CES67 = 91 | CES92 = 83 |
| CES18 = 57 | CES43 = 97 | CES68 = 92 | CES93 = 90 |
| CES19 = 72 | CES44 = 99 | CES69 = 94 | CES94 = 80 |
| CES20 = 68 | CES45 = 99 | CES70 = 90 | CES95 = 87 |
| CES21 = 87 | CES46 = 96 | CES71 = 90 | CES96 = 93 |
| CES22 = 79 | CES47 = 94 | CES72 = 96 | CES97 = 96 |
| CES23 = 92 | CES48 = 93 | CES73 = 87 | CES98 = 94 |
| CES24 = 91 | CES49 = 97 | CES74 = 92 | CES99 = 91 |
| CES25 = 72 | CES50 = 98 | CES75 = 90 | |

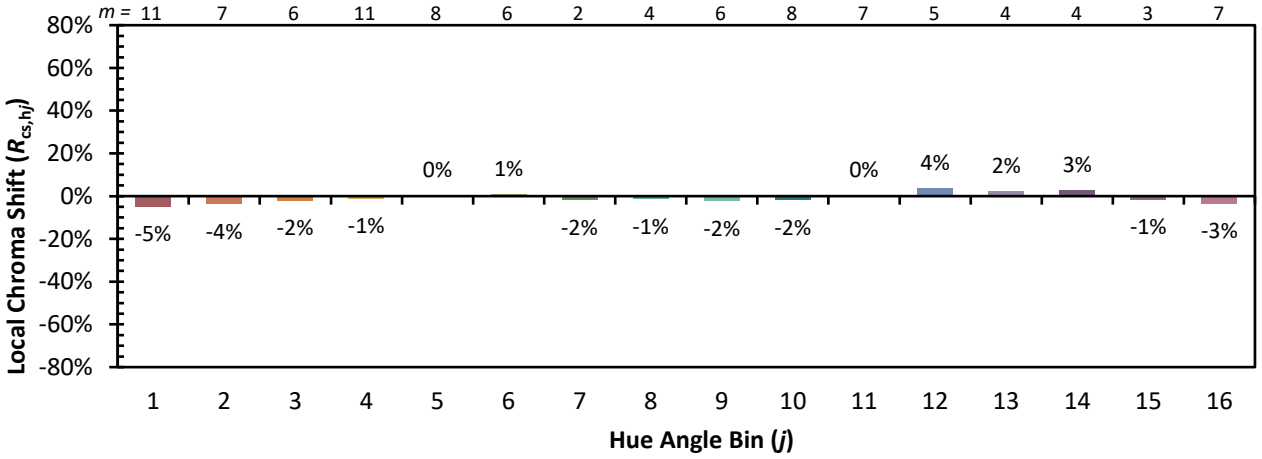


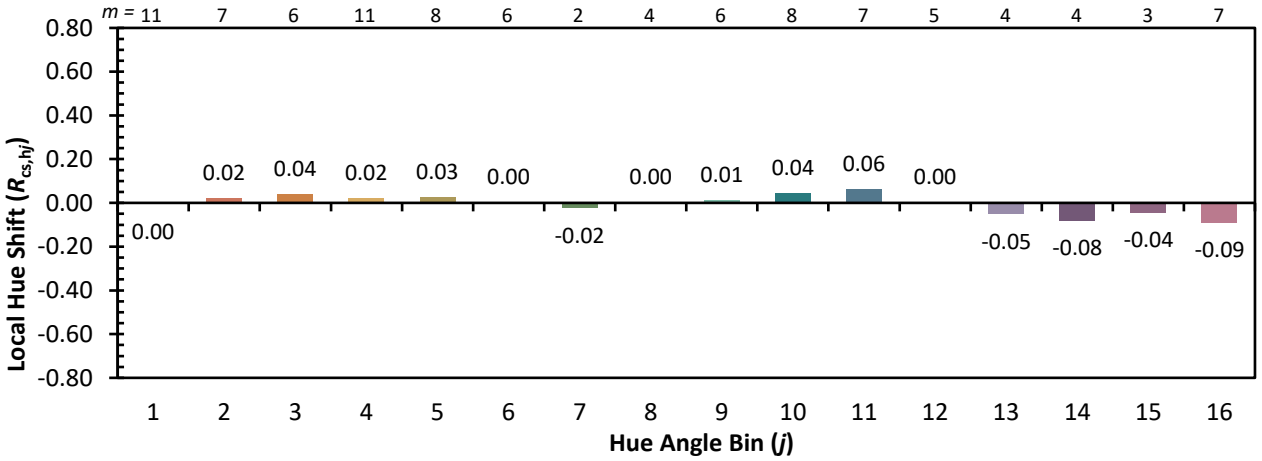
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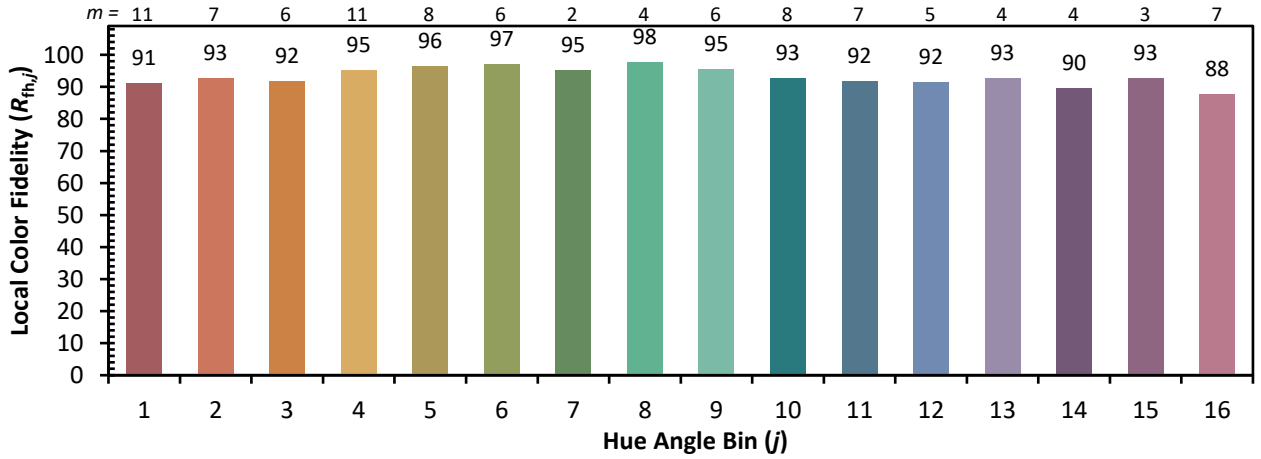
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### Color Rendition by Hue-Angle Bin



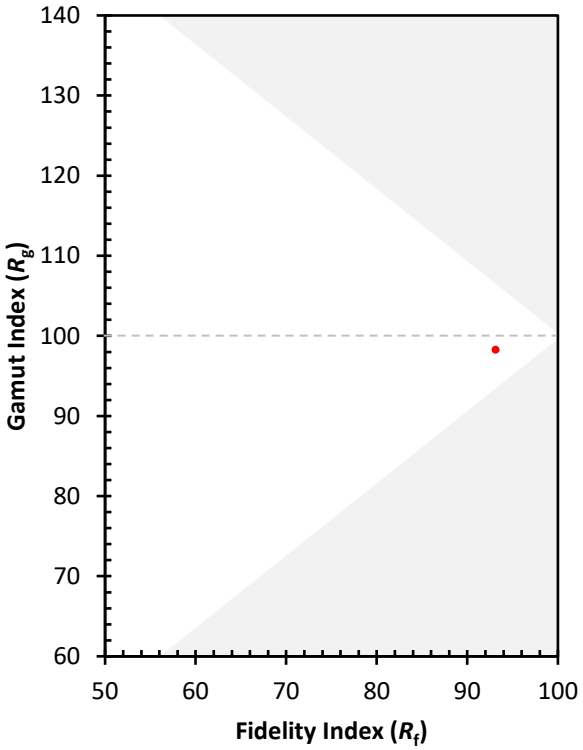



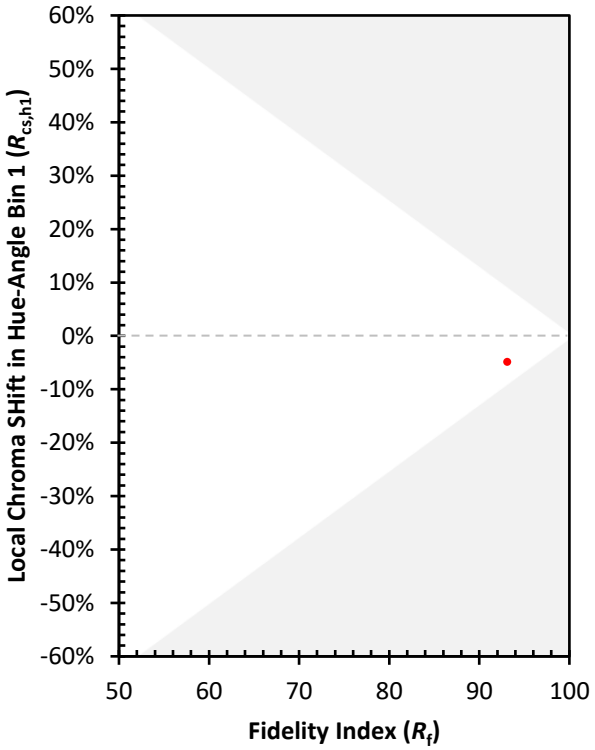
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### Measure Comparisons




(END OF REPORT)