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: P1364373

Luminaire Tested: **GSS-SB4C-840-U-SLR**

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

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1364373 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4C-840-U-SLR |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC |
| Light Source: | (104) 4000K CCT, 80 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: | 26260.2 lumens |
| Efficiency: | N/A |
| Efficacy: | 128.7 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

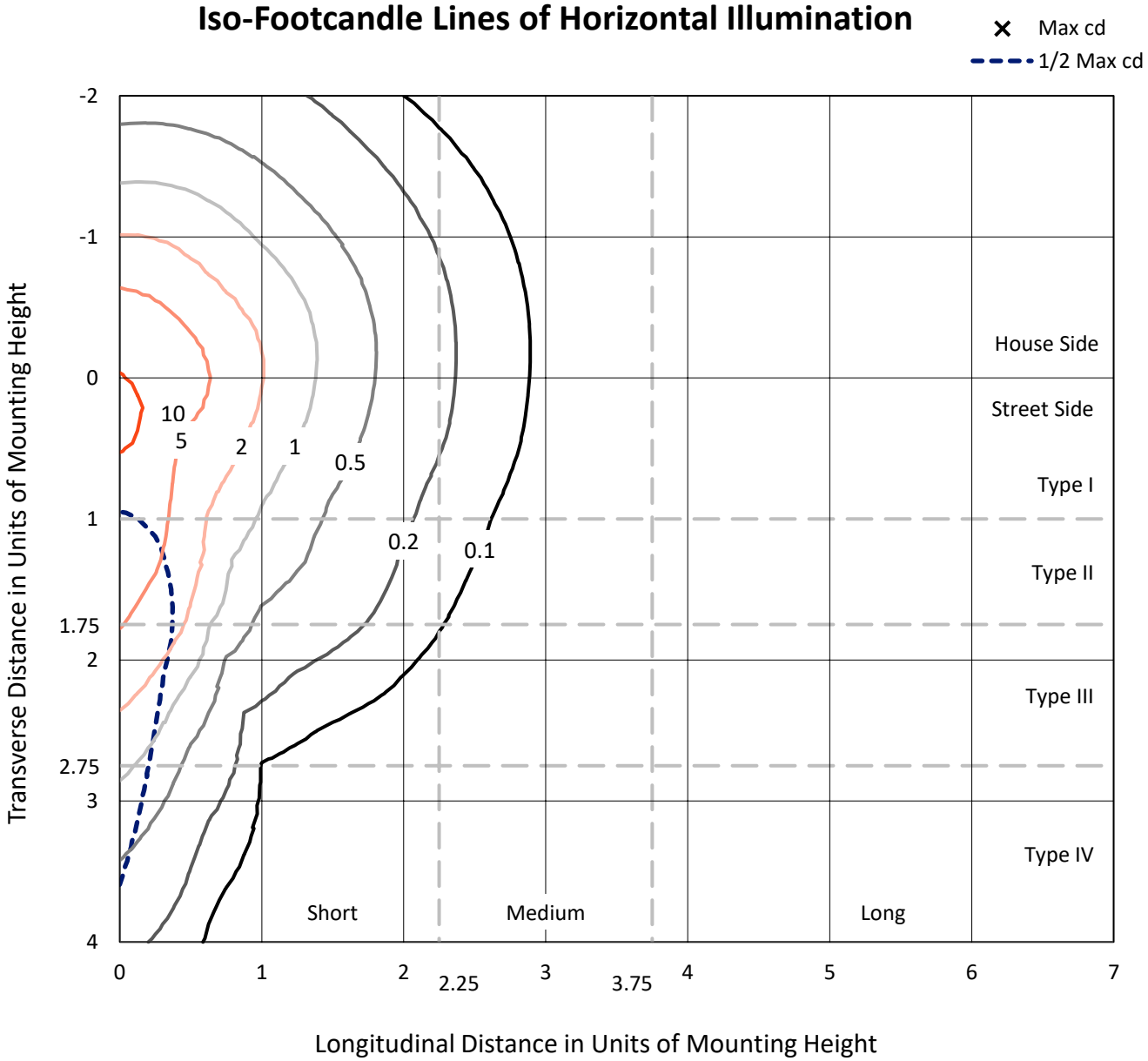
| | |
|---|---|
| Input Watts (W): | 204 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 9.5% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



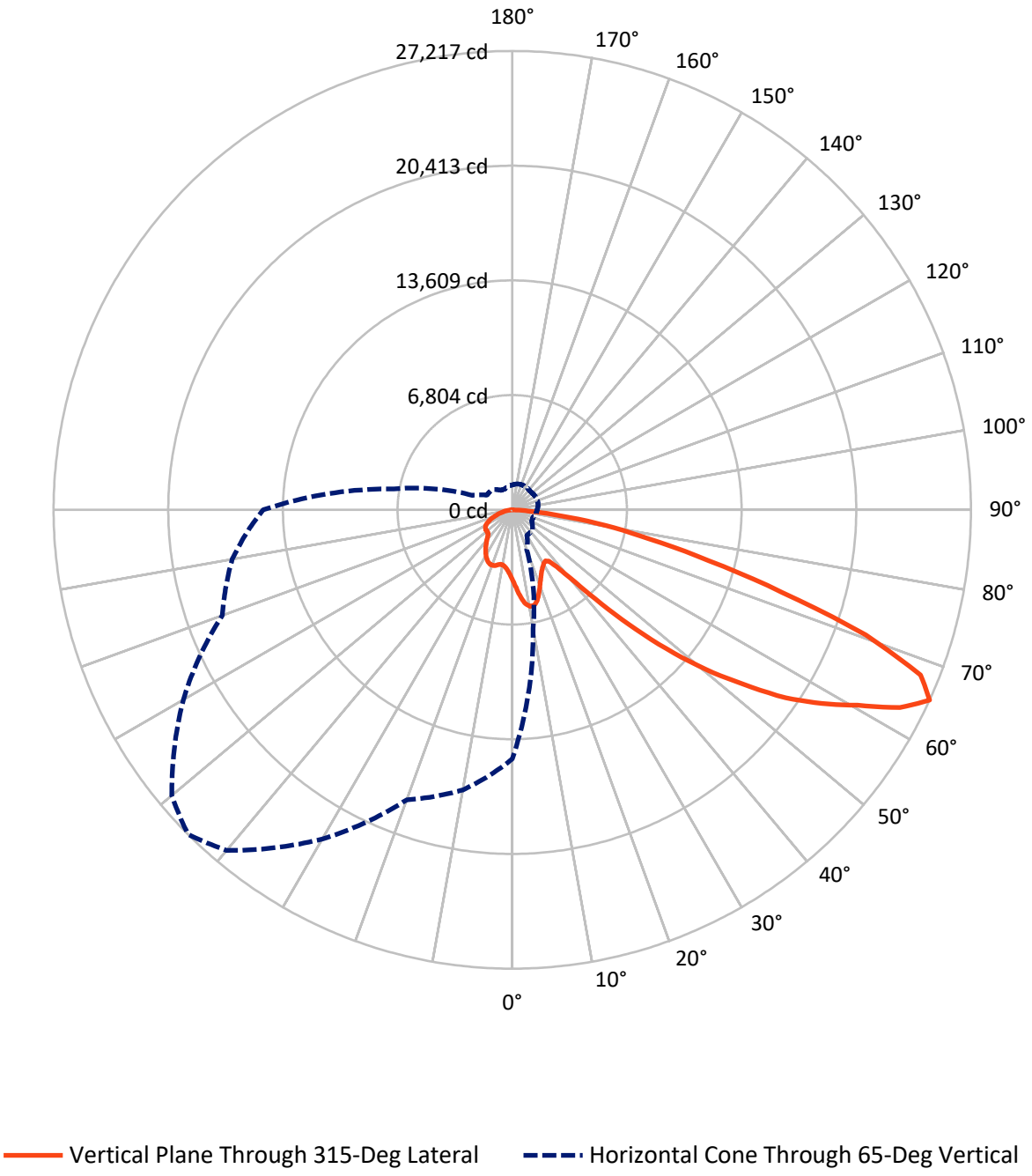

Based on 20 foot mounting height. Maximum calculated value = 12.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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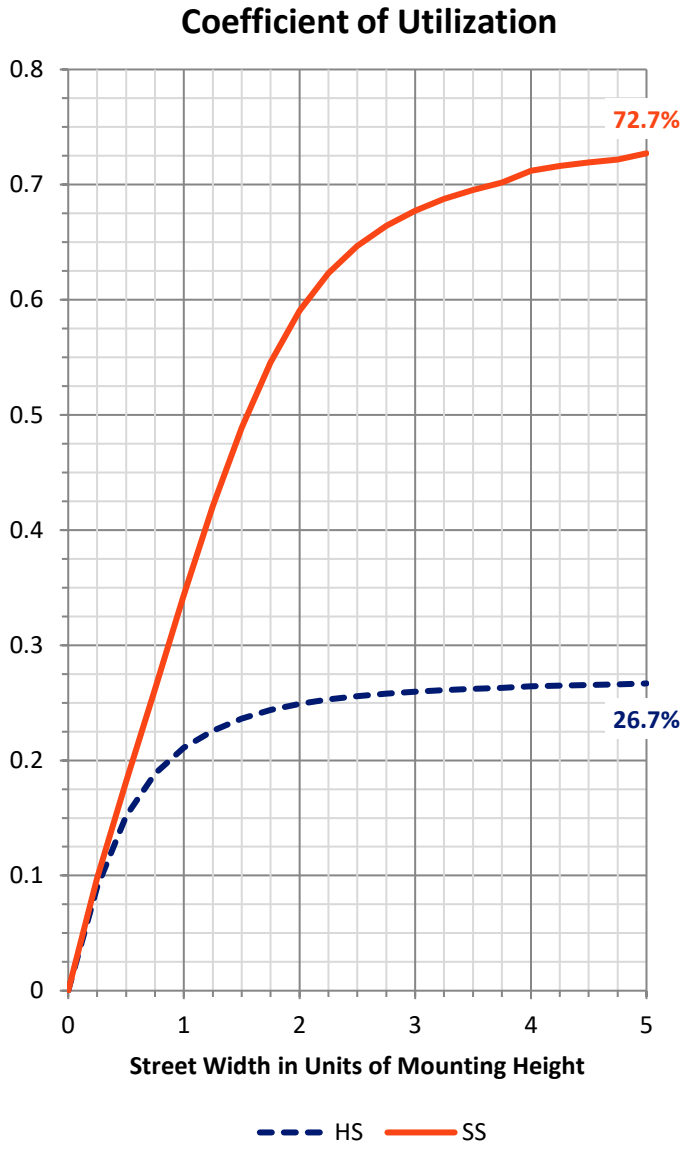
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 7064.6 | 0.0 | 7064.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 19195.6 | 0.0 | 19195.6 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 26260.2 | 0.0 | 26260.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 413.5 | 1.6 |
| 10°-20° | 1267.0 | 4.8 |
| 20°-30° | 1960.9 | 7.5 |
| 30°-40° | 2432.9 | 9.3 |
| 40°-50° | 3557.7 | 13.5 |
| 50°-60° | 5572.6 | 21.2 |
| 60°-70° | 6612.3 | 25.2 |
| 70°-80° | 3856.6 | 14.7 |
| 80°-90° | 586.7 | 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° | 26260.2 | 100.0 |
| 0°-180° | 26260.2 | 100.0 |



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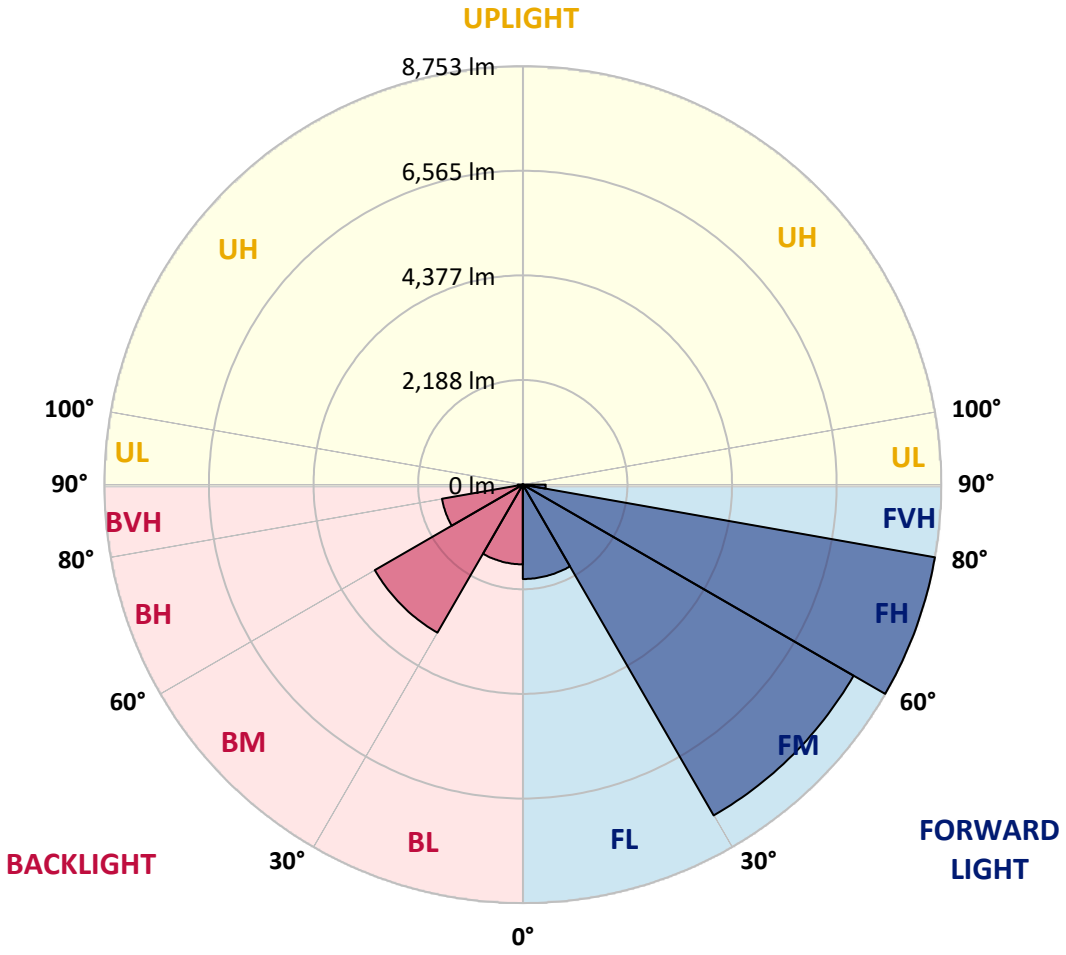
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1973.7 | 7.5 | | | |
| FM | (30°-60°) | 7988.9 | 30.4 | | | |
| FH | (60°-80°) | 8753.2 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 479.8 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1667.7 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 3574.3 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1715.7 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 106.9 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 4524.4 | 4483.3 | 4442.8 | 4405.6 | 4368.3 | 4331.1 | 4293.2 | 4257.2 | 4220.6 | 4184.0 | 4151.9 |
| 5° | 4832.7 | 4760.1 | 4688.2 | 4612.4 | 4537.2 | 4463.4 | 4389.5 | 4319.5 | 4250.2 | 4177.6 | 4115.3 |
| 7.5° | 5144.1 | 5022.1 | 4900.1 | 4785.1 | 4670.2 | 4567.4 | 4464.7 | 4372.8 | 4280.4 | 4184.0 | 4108.9 |
| 10° | 5340.0 | 5194.2 | 5047.8 | 4905.2 | 4762.0 | 4635.5 | 4508.3 | 4402.4 | 4296.4 | 4193.7 | 4113.4 |
| 12.5° | 5439.5 | 5294.4 | 5149.3 | 4989.4 | 4829.4 | 4687.5 | 4545.6 | 4428.7 | 4312.5 | 4200.1 | 4121.7 |
| 15° | 5487.7 | 5340.6 | 5194.2 | 5031.7 | 4869.3 | 4716.4 | 4562.9 | 4431.3 | 4299.6 | 4174.4 | 4105.0 |
| 17.5° | 5500.6 | 5363.1 | 5226.3 | 5052.9 | 4879.5 | 4704.9 | 4530.8 | 4377.3 | 4224.5 | 4078.1 | 4019.0 |
| 20° | 5542.3 | 5403.6 | 5264.9 | 5078.6 | 4892.4 | 4687.5 | 4482.6 | 4281.0 | 4079.3 | 3885.4 | 3848.1 |
| 22.5° | 5587.3 | 5460.1 | 5333.6 | 5128.7 | 4924.5 | 4674.0 | 4423.6 | 4170.5 | 3917.5 | 3686.3 | 3651.0 |
| 25° | 5657.9 | 5548.1 | 5438.3 | 5214.8 | 4991.3 | 4672.7 | 4354.2 | 4038.9 | 3723.6 | 3458.3 | 3455.1 |
| 27.5° | 5760.7 | 5676.5 | 5592.4 | 5340.6 | 5089.5 | 4684.9 | 4280.4 | 3904.0 | 3527.0 | 3256.0 | 3272.1 |
| 30° | 5905.1 | 5839.0 | 5773.5 | 5489.6 | 5205.1 | 4711.3 | 4218.1 | 3786.5 | 3355.6 | 3092.3 | 3109.6 |
| 32.5° | 6081.8 | 6040.7 | 5999.6 | 5665.0 | 5330.4 | 4740.8 | 4151.9 | 3683.7 | 3216.2 | 2973.4 | 2973.4 |
| 35° | 6380.4 | 6329.0 | 6277.6 | 5851.2 | 5425.4 | 4733.8 | 4042.7 | 3566.9 | 3090.3 | 2902.8 | 2863.0 |
| 37.5° | 6759.3 | 6698.3 | 6637.3 | 6078.5 | 5519.8 | 4713.8 | 3907.9 | 3437.1 | 2967.0 | 2819.3 | 2743.5 |
| 40° | 7318.0 | 7197.9 | 7077.2 | 6338.6 | 5600.1 | 4668.9 | 3737.7 | 3282.4 | 2827.0 | 2710.1 | 2615.1 |
| 42.5° | 8101.5 | 7847.2 | 7592.2 | 6626.4 | 5659.2 | 4591.2 | 3522.5 | 3098.0 | 2672.9 | 2591.3 | 2473.8 |
| 45° | 9074.5 | 8666.7 | 8258.9 | 7016.8 | 5774.8 | 4537.9 | 3301.0 | 2910.5 | 2520.7 | 2446.8 | 2329.9 |
| 47.5° | 10005.7 | 9489.3 | 8973.0 | 7418.2 | 5863.4 | 4475.6 | 3087.8 | 2724.3 | 2362.1 | 2276.6 | 2167.5 |
| 50° | 11084.6 | 10384.6 | 9684.6 | 7768.2 | 5851.8 | 4369.6 | 2886.7 | 2558.6 | 2229.8 | 2112.9 | 2005.0 |
| 52.5° | 12468.6 | 11356.9 | 10244.6 | 7933.9 | 5622.6 | 4152.6 | 2683.2 | 2409.6 | 2137.3 | 1987.6 | 1872.1 |
| 55° | 14122.3 | 12333.7 | 10545.1 | 7890.2 | 5235.3 | 3864.8 | 2493.1 | 2285.0 | 2075.6 | 1926.6 | 1790.5 |
| 57.5° | 15808.1 | 13153.8 | 10500.2 | 7652.0 | 4803.8 | 3563.6 | 2323.5 | 2179.7 | 2035.8 | 1910.6 | 1743.6 |
| 60° | 17073.2 | 13521.2 | 9968.4 | 7081.0 | 4193.7 | 3182.8 | 2172.0 | 2071.1 | 1970.3 | 1872.1 | 1705.1 |
| 62.5° | 16549.8 | 12706.2 | 8862.5 | 6145.3 | 3428.1 | 2699.9 | 1971.6 | 1915.1 | 1859.2 | 1817.5 | 1658.2 |
| 65° | *14783.7* | *10959.4* | *7135.0* | *4820.5* | *2505.9* | *2121.9* | *1737.2* | *1725.0* | *1713.4* | *1701.9* | *1570.2* |
| 67.5° | 13126.8 | 9412.3 | 5697.7 | 3751.2 | 1804.6 | 1622.2 | 1439.8 | 1473.9 | 1507.9 | 1525.3 | 1435.3 |
| 70° | 11540.6 | 7996.2 | 4451.8 | 2874.5 | 1297.3 | 1233.0 | 1168.8 | 1219.6 | 1270.3 | 1265.2 | 1221.5 |
| 72.5° | 9906.1 | 6639.8 | 3372.9 | 2161.0 | 949.2 | 947.9 | 947.3 | 985.8 | 1024.3 | 973.0 | 1000.6 |
| 75° | 8111.2 | 5301.5 | 2491.8 | 1601.7 | 711.6 | 707.1 | 703.2 | 748.8 | 795.1 | 815.6 | 833.6 |
| 77.5° | 5394.6 | 3478.2 | 1561.9 | 1035.2 | 508.6 | 512.5 | 515.1 | 565.1 | 615.2 | 674.3 | 677.5 |
| 80° | 3166.1 | 1994.1 | 822.0 | 572.2 | 322.4 | 326.2 | 328.8 | 381.5 | 433.5 | 517.0 | 513.8 |
| 82.5° | 1583.1 | 999.3 | 416.2 | 307.6 | 199.1 | 199.7 | 200.4 | 226.1 | 251.7 | 298.6 | 311.5 |
| 85° | 359.6 | 237.6 | 115.6 | 97.6 | 80.3 | 84.1 | 88.6 | 105.3 | 122.0 | 147.7 | 155.4 |
| 87.5° | 28.9 | 28.3 | 27.0 | 26.3 | 25.7 | 27.0 | 28.9 | 32.1 | 35.3 | 38.5 | 45.0 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 4117.2 | 4083.2 | 4056.2 | 4029.9 | 4006.8 | 3983.0 | 3955.4 | 3927.1 | 3907.2 | 3886.7 | 3873.2 |
| 5° | 4053.6 | 3993.3 | 3943.2 | 3893.1 | 3852.0 | 3809.6 | 3772.4 | 3734.5 | 3704.9 | 3674.7 | 3650.3 |
| 7.5° | 4033.7 | 3959.2 | 3894.4 | 3828.9 | 3773.6 | 3718.4 | 3672.2 | 3625.3 | 3581.0 | 3537.3 | 3509.1 |
| 10° | 4034.4 | 3956.0 | 3889.2 | 3822.5 | 3764.0 | 3705.6 | 3644.6 | 3583.5 | 3534.7 | 3485.9 | 3443.5 |
| 12.5° | 4056.2 | 3991.4 | 3944.5 | 3898.2 | 3844.3 | 3790.3 | 3717.8 | 3644.6 | 3578.4 | 3512.9 | 3460.9 |
| 15° | 4062.6 | 4020.3 | 4016.4 | 4012.5 | 3993.9 | 3975.3 | 3907.9 | 3840.4 | 3749.2 | 3657.4 | 3582.9 |
| 17.5° | 4013.2 | 4007.4 | 4071.0 | 4134.6 | 4171.2 | 4207.8 | 4160.9 | 4113.4 | 3984.9 | 3856.5 | 3745.4 |
| 20° | 3884.7 | 3920.7 | 4045.3 | 4169.2 | 4268.1 | 4367.0 | 4361.9 | 4357.4 | 4189.8 | 4021.5 | 3875.8 |
| 22.5° | 3704.9 | 3758.2 | 3920.7 | 4083.2 | 4225.8 | 4368.3 | 4404.9 | 4440.9 | 4276.5 | 4111.4 | 3931.6 |
| 25° | 3513.5 | 3572.0 | 3722.3 | 3872.5 | 4026.0 | 4179.5 | 4247.6 | 4315.7 | 4180.2 | 4044.7 | 3870.0 |
| 27.5° | 3327.9 | 3384.5 | 3496.2 | 3608.0 | 3731.3 | 3854.6 | 3931.0 | 4007.4 | 3924.6 | 3841.7 | 3700.4 |
| 30° | 3153.3 | 3196.9 | 3277.9 | 3358.8 | 3442.3 | 3525.8 | 3586.8 | 3647.8 | 3593.2 | 3538.6 | 3437.1 |
| 32.5° | 2992.1 | 3010.7 | 3063.4 | 3116.0 | 3178.3 | 3240.0 | 3274.0 | 3307.4 | 3265.0 | 3222.6 | 3155.8 |
| 35° | 2847.6 | 2832.2 | 2866.8 | 2901.5 | 2951.6 | 3002.3 | 3028.0 | 3053.7 | 3018.4 | 2983.1 | 2923.4 |
| 37.5° | 2702.4 | 2660.0 | 2676.7 | 2692.2 | 2735.2 | 2777.6 | 2814.2 | 2851.4 | 2825.7 | 2800.0 | 2749.3 |
| 40° | 2553.4 | 2491.8 | 2490.5 | 2488.6 | 2529.7 | 2570.1 | 2616.4 | 2662.0 | 2657.5 | 2652.3 | 2604.2 |
| 42.5° | 2395.5 | 2317.1 | 2308.8 | 2300.4 | 2340.9 | 2381.3 | 2430.1 | 2478.9 | 2488.6 | 2498.2 | 2458.4 |
| 45° | 2249.0 | 2169.4 | 2156.6 | 2143.7 | 2178.4 | 2214.4 | 2267.7 | 2321.6 | 2344.1 | 2366.6 | 2330.6 |
| 47.5° | 2098.8 | 2029.4 | 2021.7 | 2013.3 | 2049.9 | 2087.2 | 2146.3 | 2206.0 | 2229.8 | 2254.2 | 2229.8 |
| 50° | 1948.5 | 1891.3 | 1901.0 | 1910.6 | 1951.0 | 1990.9 | 2037.1 | 2084.0 | 2128.3 | 2172.0 | 2167.5 |
| 52.5° | 1829.7 | 1786.6 | 1816.8 | 1846.4 | 1883.0 | 1920.2 | 1968.4 | 2016.5 | 2062.8 | 2109.7 | 2116.7 |
| 55° | 1743.0 | 1695.4 | 1737.8 | 1780.2 | 1824.5 | 1868.8 | 1913.8 | 1958.8 | 2002.4 | 2045.4 | 2055.1 |
| 57.5° | 1676.8 | 1610.7 | 1653.1 | 1695.4 | 1743.6 | 1791.8 | 1836.7 | 1881.7 | 1932.4 | 1983.2 | 1990.9 |
| 60° | 1621.6 | 1538.1 | 1566.4 | 1594.0 | 1643.4 | 1692.2 | 1739.1 | 1785.4 | 1836.7 | 1888.1 | 1898.4 |
| 62.5° | 1549.0 | 1439.8 | 1443.7 | 1446.3 | 1502.1 | 1557.4 | 1595.9 | 1634.4 | 1683.2 | 1732.7 | 1747.5 |
| 65° | *1452.7* | *1335.8* | *1323.0* | *1310.1* | *1362.8* | *1416.1* | *1446.3* | *1477.1* | *1519.5* | *1561.9* | *1576.6* |
| 67.5° | 1332.0 | 1227.9 | 1201.6 | 1175.3 | 1224.1 | 1272.9 | 1297.9 | 1323.0 | 1351.9 | 1380.8 | 1397.5 |
| 70° | 1159.8 | 1098.2 | 1081.5 | 1064.8 | 1104.6 | 1144.4 | 1166.3 | 1188.1 | 1211.2 | 1234.3 | 1243.3 |
| 72.5° | 986.4 | 973.0 | 960.8 | 949.2 | 979.4 | 1009.6 | 1028.2 | 1046.8 | 1068.6 | 1090.5 | 1095.6 |
| 75° | 825.9 | 818.8 | 809.8 | 801.5 | 824.6 | 847.7 | 861.9 | 876.6 | 899.1 | 921.6 | 931.2 |
| 77.5° | 660.8 | 643.5 | 634.5 | 624.2 | 645.4 | 666.6 | 680.1 | 693.6 | 712.2 | 730.8 | 733.4 |
| 80° | 493.2 | 472.0 | 465.0 | 457.3 | 472.7 | 488.1 | 493.2 | 497.7 | 513.1 | 527.9 | 527.9 |
| 82.5° | 311.5 | 311.5 | 307.0 | 301.8 | 298.6 | 295.4 | 289.0 | 282.6 | 298.0 | 313.4 | 318.5 |
| 85° | 156.7 | 157.3 | 150.3 | 142.6 | 133.6 | 123.3 | 121.4 | 118.8 | 118.2 | 116.9 | 121.4 |
| 87.5° | 48.8 | 52.7 | 56.5 | 59.1 | 62.9 | 65.5 | 63.6 | 61.0 | 58.4 | 56.5 | 51.4 |
| 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):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 3859.7 | 3853.3 | 3846.9 | 3841.7 | 3837.2 | 3834.0 | 3837.2 | 3841.7 | 3846.9 | 3853.3 | 3859.7 |
| 5° | 3625.3 | 3615.0 | 3604.1 | 3597.0 | 3590.0 | 3583.5 | 3590.0 | 3597.0 | 3604.1 | 3615.0 | 3625.3 |
| 7.5° | 3480.8 | 3464.1 | 3447.4 | 3435.2 | 3423.0 | 3416.6 | 3423.0 | 3435.2 | 3447.4 | 3464.1 | 3480.8 |
| 10° | 3402.4 | 3378.7 | 3355.6 | 3342.7 | 3329.9 | 3320.2 | 3329.9 | 3342.7 | 3355.6 | 3378.7 | 3402.4 |
| 12.5° | 3408.9 | 3379.3 | 3351.1 | 3331.8 | 3312.5 | 3301.0 | 3312.5 | 3331.8 | 3351.1 | 3379.3 | 3408.9 |
| 15° | 3507.8 | 3466.7 | 3424.3 | 3400.5 | 3376.8 | 3358.8 | 3376.8 | 3400.5 | 3424.3 | 3466.7 | 3507.8 |
| 17.5° | 3634.9 | 3574.6 | 3514.2 | 3493.0 | 3471.2 | 3461.5 | 3471.2 | 3493.0 | 3514.2 | 3574.6 | 3634.9 |
| 20° | 3730.0 | 3649.1 | 3569.4 | 3537.3 | 3505.2 | 3493.6 | 3505.2 | 3537.3 | 3569.4 | 3649.1 | 3730.0 |
| 22.5° | 3751.8 | 3656.8 | 3561.1 | 3530.9 | 3500.1 | 3487.2 | 3500.1 | 3530.9 | 3561.1 | 3656.8 | 3751.8 |
| 25° | 3695.9 | 3595.8 | 3494.9 | 3464.1 | 3432.6 | 3423.0 | 3432.6 | 3464.1 | 3494.9 | 3595.8 | 3695.9 |
| 27.5° | 3559.1 | 3470.5 | 3381.3 | 3348.5 | 3315.1 | 3294.6 | 3315.1 | 3348.5 | 3381.3 | 3470.5 | 3559.1 |
| 30° | 3336.3 | 3270.1 | 3204.6 | 3184.1 | 3162.9 | 3153.3 | 3162.9 | 3184.1 | 3204.6 | 3270.1 | 3336.3 |
| 32.5° | 3089.0 | 3047.9 | 3006.8 | 2993.4 | 2979.9 | 2973.4 | 2979.9 | 2993.4 | 3006.8 | 3047.9 | 3089.0 |
| 35° | 2864.3 | 2834.7 | 2805.2 | 2794.3 | 2784.0 | 2774.4 | 2784.0 | 2794.3 | 2805.2 | 2834.7 | 2864.3 |
| 37.5° | 2698.6 | 2663.9 | 2627.9 | 2608.7 | 2589.4 | 2575.3 | 2589.4 | 2608.7 | 2627.9 | 2663.9 | 2698.6 |
| 40° | 2556.0 | 2505.9 | 2456.5 | 2430.1 | 2403.2 | 2389.0 | 2403.2 | 2430.1 | 2456.5 | 2505.9 | 2556.0 |
| 42.5° | 2417.9 | 2360.1 | 2302.3 | 2261.9 | 2222.1 | 2196.4 | 2222.1 | 2261.9 | 2302.3 | 2360.1 | 2417.9 |
| 45° | 2294.0 | 2229.1 | 2164.3 | 2116.1 | 2067.9 | 2035.8 | 2067.9 | 2116.1 | 2164.3 | 2229.1 | 2294.0 |
| 47.5° | 2206.0 | 2150.1 | 2093.6 | 2051.2 | 2008.8 | 1978.0 | 2008.8 | 2051.2 | 2093.6 | 2150.1 | 2206.0 |
| 50° | 2163.0 | 2118.7 | 2074.3 | 2034.5 | 1994.1 | 1965.2 | 1994.1 | 2034.5 | 2074.3 | 2118.7 | 2163.0 |
| 52.5° | 2124.4 | 2092.3 | 2060.2 | 2025.5 | 1990.9 | 1965.2 | 1990.9 | 2025.5 | 2060.2 | 2092.3 | 2124.4 |
| 55° | 2064.7 | 2041.6 | 2017.8 | 1992.1 | 1966.5 | 1945.9 | 1966.5 | 1992.1 | 2017.8 | 2041.6 | 2064.7 |
| 57.5° | 1998.6 | 1974.2 | 1949.1 | 1929.9 | 1910.6 | 1901.0 | 1910.6 | 1929.9 | 1949.1 | 1974.2 | 1998.6 |
| 60° | 1908.7 | 1889.4 | 1870.1 | 1852.1 | 1833.5 | 1817.5 | 1833.5 | 1852.1 | 1870.1 | 1889.4 | 1908.7 |
| 62.5° | 1762.9 | 1753.9 | 1745.5 | 1725.0 | 1705.1 | 1682.6 | 1705.1 | 1725.0 | 1745.5 | 1753.9 | 1762.9 |
| 65° | *1591.4* | *1586.9* | *1583.1* | *1568.3* | *1554.2* | *1528.5* | *1554.2* | *1568.3* | *1583.1* | *1586.9* | *1591.4* |
| 67.5° | 1414.2 | 1405.8 | 1396.8 | 1381.4 | 1366.6 | 1361.5 | 1366.6 | 1381.4 | 1396.8 | 1405.8 | 1414.2 |
| 70° | 1252.3 | 1239.5 | 1226.6 | 1191.9 | 1157.3 | 1117.5 | 1157.3 | 1191.9 | 1226.6 | 1239.5 | 1252.3 |
| 72.5° | 1101.4 | 1081.5 | 1060.9 | 1020.5 | 979.4 | 937.6 | 979.4 | 1020.5 | 1060.9 | 1081.5 | 1101.4 |
| 75° | 940.8 | 912.6 | 885.0 | 841.9 | 799.6 | 770.7 | 799.6 | 841.9 | 885.0 | 912.6 | 940.8 |
| 77.5° | 737.3 | 712.9 | 688.5 | 662.8 | 637.1 | 622.9 | 637.1 | 662.8 | 688.5 | 712.9 | 737.3 |
| 80° | 527.9 | 509.9 | 491.3 | 478.4 | 465.6 | 456.0 | 465.6 | 478.4 | 491.3 | 509.9 | 527.9 |
| 82.5° | 324.3 | 316.0 | 308.3 | 294.1 | 279.4 | 269.7 | 279.4 | 294.1 | 308.3 | 316.0 | 324.3 |
| 85° | 125.2 | 123.3 | 122.0 | 116.9 | 112.4 | 109.2 | 112.4 | 116.9 | 122.0 | 123.3 | 125.2 |
| 87.5° | 46.2 | 42.4 | 38.5 | 36.0 | 33.4 | 32.1 | 33.4 | 36.0 | 38.5 | 42.4 | 46.2 |
| 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: P1364373
CATALOG NUMBER: GSS-SB4C-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 3873.2 | 3886.7 | 3907.2 | 3927.1 | 3955.4 | 3983.0 | 4006.8 | 4029.9 | 4056.2 | 4083.2 | 4117.2 |
| 5° | 3650.3 | 3674.7 | 3704.9 | 3734.5 | 3772.4 | 3809.6 | 3852.0 | 3893.1 | 3943.2 | 3993.3 | 4053.6 |
| 7.5° | 3509.1 | 3537.3 | 3581.0 | 3625.3 | 3672.2 | 3718.4 | 3773.6 | 3828.9 | 3894.4 | 3959.2 | 4033.7 |
| 10° | 3443.5 | 3485.9 | 3534.7 | 3583.5 | 3644.6 | 3705.6 | 3764.0 | 3822.5 | 3889.2 | 3956.0 | 4034.4 |
| 12.5° | 3460.9 | 3512.9 | 3578.4 | 3644.6 | 3717.8 | 3790.3 | 3844.3 | 3898.2 | 3944.5 | 3991.4 | 4056.2 |
| 15° | 3582.9 | 3657.4 | 3749.2 | 3840.4 | 3907.9 | 3975.3 | 3993.9 | 4012.5 | 4016.4 | 4020.3 | 4062.6 |
| 17.5° | 3745.4 | 3856.5 | 3984.9 | 4113.4 | 4160.9 | 4207.8 | 4171.2 | 4134.6 | 4071.0 | 4007.4 | 4013.2 |
| 20° | 3875.8 | 4021.5 | 4189.8 | 4357.4 | 4361.9 | 4367.0 | 4268.1 | 4169.2 | 4045.3 | 3920.7 | 3884.7 |
| 22.5° | 3931.6 | 4111.4 | 4276.5 | 4440.9 | 4404.9 | 4368.3 | 4225.8 | 4083.2 | 3920.7 | 3758.2 | 3704.9 |
| 25° | 3870.0 | 4044.7 | 4180.2 | 4315.7 | 4247.6 | 4179.5 | 4026.0 | 3872.5 | 3722.3 | 3572.0 | 3513.5 |
| 27.5° | 3700.4 | 3841.7 | 3924.6 | 4007.4 | 3931.0 | 3854.6 | 3731.3 | 3608.0 | 3496.2 | 3384.5 | 3327.9 |
| 30° | 3437.1 | 3538.6 | 3593.2 | 3647.8 | 3586.8 | 3525.8 | 3442.3 | 3358.8 | 3277.9 | 3196.9 | 3153.3 |
| 32.5° | 3155.8 | 3222.6 | 3265.0 | 3307.4 | 3274.0 | 3240.0 | 3178.3 | 3116.0 | 3063.4 | 3010.7 | 2992.1 |
| 35° | 2923.4 | 2983.1 | 3018.4 | 3053.7 | 3028.0 | 3002.3 | 2951.6 | 2901.5 | 2866.8 | 2832.2 | 2847.6 |
| 37.5° | 2749.3 | 2800.0 | 2825.7 | 2851.4 | 2814.2 | 2777.6 | 2735.2 | 2692.2 | 2676.7 | 2660.0 | 2702.4 |
| 40° | 2604.2 | 2652.3 | 2657.5 | 2662.0 | 2616.4 | 2570.1 | 2529.7 | 2488.6 | 2490.5 | 2491.8 | 2553.4 |
| 42.5° | 2458.4 | 2498.2 | 2488.6 | 2478.9 | 2430.1 | 2381.3 | 2340.9 | 2300.4 | 2308.8 | 2317.1 | 2395.5 |
| 45° | 2330.6 | 2366.6 | 2344.1 | 2321.6 | 2267.7 | 2214.4 | 2178.4 | 2143.7 | 2156.6 | 2169.4 | 2249.0 |
| 47.5° | 2229.8 | 2254.2 | 2229.8 | 2206.0 | 2146.3 | 2087.2 | 2049.9 | 2013.3 | 2021.7 | 2029.4 | 2098.8 |
| 50° | 2167.5 | 2172.0 | 2128.3 | 2084.0 | 2037.1 | 1990.9 | 1951.0 | 1910.6 | 1901.0 | 1891.3 | 1948.5 |
| 52.5° | 2116.7 | 2109.7 | 2062.8 | 2016.5 | 1968.4 | 1920.2 | 1883.0 | 1846.4 | 1816.8 | 1786.6 | 1829.7 |
| 55° | 2055.1 | 2045.4 | 2002.4 | 1958.8 | 1913.8 | 1868.8 | 1824.5 | 1780.2 | 1737.8 | 1695.4 | 1743.0 |
| 57.5° | 1990.9 | 1983.2 | 1932.4 | 1881.7 | 1836.7 | 1791.8 | 1743.6 | 1695.4 | 1653.1 | 1610.7 | 1676.8 |
| 60° | 1898.4 | 1888.1 | 1836.7 | 1785.4 | 1739.1 | 1692.2 | 1643.4 | 1594.0 | 1566.4 | 1538.1 | 1621.6 |
| 62.5° | 1747.5 | 1732.7 | 1683.2 | 1634.4 | 1595.9 | 1557.4 | 1502.1 | 1446.3 | 1443.7 | 1439.8 | 1549.0 |
| 65° | *1576.6* | *1561.9* | *1519.5* | *1477.1* | *1446.3* | *1416.1* | *1362.8* | *1310.1* | *1323.0* | *1335.8* | *1452.7* |
| 67.5° | 1397.5 | 1380.8 | 1351.9 | 1323.0 | 1297.9 | 1272.9 | 1224.1 | 1175.3 | 1201.6 | 1227.9 | 1332.0 |
| 70° | 1243.3 | 1234.3 | 1211.2 | 1188.1 | 1166.3 | 1144.4 | 1104.6 | 1064.8 | 1081.5 | 1098.2 | 1159.8 |
| 72.5° | 1095.6 | 1090.5 | 1068.6 | 1046.8 | 1028.2 | 1009.6 | 979.4 | 949.2 | 960.8 | 973.0 | 986.4 |
| 75° | 931.2 | 921.6 | 899.1 | 876.6 | 861.9 | 847.7 | 824.6 | 801.5 | 809.8 | 818.8 | 825.9 |
| 77.5° | 733.4 | 730.8 | 712.2 | 693.6 | 680.1 | 666.6 | 645.4 | 624.2 | 634.5 | 643.5 | 660.8 |
| 80° | 527.9 | 527.9 | 513.1 | 497.7 | 493.2 | 488.1 | 472.7 | 457.3 | 465.0 | 472.0 | 493.2 |
| 82.5° | 318.5 | 313.4 | 298.0 | 282.6 | 289.0 | 295.4 | 298.6 | 301.8 | 307.0 | 311.5 | 311.5 |
| 85° | 121.4 | 116.9 | 118.2 | 118.8 | 121.4 | 123.3 | 133.6 | 142.6 | 150.3 | 157.3 | 156.7 |
| 87.5° | 51.4 | 56.5 | 58.4 | 61.0 | 63.6 | 65.5 | 62.9 | 59.1 | 56.5 | 52.7 | 48.8 |
| 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: P1364373
CATALOG NUMBER: GSS-SB4C-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 4151.9 | 4184.0 | 4220.6 | 4257.2 | 4293.2 | 4331.1 | 4368.3 | 4405.6 | 4442.8 | 4483.3 | 4524.4 |
| 5° | 4115.3 | 4177.6 | 4250.2 | 4319.5 | 4389.5 | 4463.4 | 4537.2 | 4612.4 | 4688.2 | 4760.1 | 4832.7 |
| 7.5° | 4108.9 | 4184.0 | 4280.4 | 4372.8 | 4464.7 | 4567.4 | 4670.2 | 4785.1 | 4900.1 | 5022.1 | 5144.1 |
| 10° | 4113.4 | 4193.7 | 4296.4 | 4402.4 | 4508.3 | 4635.5 | 4762.0 | 4905.2 | 5047.8 | 5194.2 | 5340.0 |
| 12.5° | 4121.7 | 4200.1 | 4312.5 | 4428.7 | 4545.6 | 4687.5 | 4829.4 | 4989.4 | 5149.3 | 5294.4 | 5439.5 |
| 15° | 4105.0 | 4174.4 | 4299.6 | 4431.3 | 4562.9 | 4716.4 | 4869.3 | 5031.7 | 5194.2 | 5340.6 | 5487.7 |
| 17.5° | 4019.0 | 4078.1 | 4224.5 | 4377.3 | 4530.8 | 4704.9 | 4879.5 | 5052.9 | 5226.3 | 5363.1 | 5500.6 |
| 20° | 3848.1 | 3885.4 | 4079.3 | 4281.0 | 4482.6 | 4687.5 | 4892.4 | 5078.6 | 5264.9 | 5403.6 | 5542.3 |
| 22.5° | 3651.0 | 3686.3 | 3917.5 | 4170.5 | 4423.6 | 4674.0 | 4924.5 | 5128.7 | 5333.6 | 5460.1 | 5587.3 |
| 25° | 3455.1 | 3458.3 | 3723.6 | 4038.9 | 4354.2 | 4672.7 | 4991.3 | 5214.8 | 5438.3 | 5548.1 | 5657.9 |
| 27.5° | 3272.1 | 3256.0 | 3527.0 | 3904.0 | 4280.4 | 4684.9 | 5089.5 | 5340.6 | 5592.4 | 5676.5 | 5760.7 |
| 30° | 3109.6 | 3092.3 | 3355.6 | 3786.5 | 4218.1 | 4711.3 | 5205.1 | 5489.6 | 5773.5 | 5839.0 | 5905.1 |
| 32.5° | 2973.4 | 2973.4 | 3216.2 | 3683.7 | 4151.9 | 4740.8 | 5330.4 | 5665.0 | 5999.6 | 6040.7 | 6081.8 |
| 35° | 2863.0 | 2902.8 | 3090.3 | 3566.9 | 4042.7 | 4733.8 | 5425.4 | 5851.2 | 6277.6 | 6329.0 | 6380.4 |
| 37.5° | 2743.5 | 2819.3 | 2967.0 | 3437.1 | 3907.9 | 4713.8 | 5519.8 | 6078.5 | 6637.3 | 6698.3 | 6759.3 |
| 40° | 2615.1 | 2710.1 | 2827.0 | 3282.4 | 3737.7 | 4668.9 | 5600.1 | 6338.6 | 7077.2 | 7197.9 | 7318.0 |
| 42.5° | 2473.8 | 2591.3 | 2672.9 | 3098.0 | 3522.5 | 4591.2 | 5659.2 | 6626.4 | 7592.2 | 7847.2 | 8101.5 |
| 45° | 2329.9 | 2446.8 | 2520.7 | 2910.5 | 3301.0 | 4537.9 | 5774.8 | 7016.8 | 8258.9 | 8666.7 | 9074.5 |
| 47.5° | 2167.5 | 2276.6 | 2362.1 | 2724.3 | 3087.8 | 4475.6 | 5863.4 | 7418.2 | 8973.0 | 9489.3 | 10005.7 |
| 50° | 2005.0 | 2112.9 | 2229.8 | 2558.6 | 2886.7 | 4369.6 | 5851.8 | 7768.2 | 9684.6 | 10384.6 | 11084.6 |
| 52.5° | 1872.1 | 1987.6 | 2137.3 | 2409.6 | 2683.2 | 4152.6 | 5622.6 | 7933.9 | 10244.6 | 11356.9 | 12468.6 |
| 55° | 1790.5 | 1926.6 | 2075.6 | 2285.0 | 2493.1 | 3864.8 | 5235.3 | 7890.2 | 10545.1 | 12333.7 | 14122.3 |
| 57.5° | 1743.6 | 1910.6 | 2035.8 | 2179.7 | 2323.5 | 3563.6 | 4803.8 | 7652.0 | 10500.2 | 13153.8 | 15808.1 |
| 60° | 1705.1 | 1872.1 | 1970.3 | 2071.1 | 2172.0 | 3182.8 | 4193.7 | 7081.0 | 9968.4 | 13521.2 | 17073.2 |
| 62.5° | 1658.2 | 1817.5 | 1859.2 | 1915.1 | 1971.6 | 2699.9 | 3428.1 | 6145.3 | 8862.5 | 12706.2 | 16549.8 |
| 65° | *1570.2* | *1701.9* | *1713.4* | *1725.0* | *1737.2* | *2121.9* | *2505.9* | *4820.5* | *7135.0* | *10959.4* | *14783.7* |
| 67.5° | 1435.3 | 1525.3 | 1507.9 | 1473.9 | 1439.8 | 1622.2 | 1804.6 | 3751.2 | 5697.7 | 9412.3 | 13126.8 |
| 70° | 1221.5 | 1265.2 | 1270.3 | 1219.6 | 1168.8 | 1233.0 | 1297.3 | 2874.5 | 4451.8 | 7996.2 | 11540.6 |
| 72.5° | 1000.6 | 973.0 | 1024.3 | 985.8 | 947.3 | 947.9 | 949.2 | 2161.0 | 3372.9 | 6639.8 | 9906.1 |
| 75° | 833.6 | 815.6 | 795.1 | 748.8 | 703.2 | 707.1 | 711.6 | 1601.7 | 2491.8 | 5301.5 | 8111.2 |
| 77.5° | 677.5 | 674.3 | 615.2 | 565.1 | 515.1 | 512.5 | 508.6 | 1035.2 | 1561.9 | 3478.2 | 5394.6 |
| 80° | 513.8 | 517.0 | 433.5 | 381.5 | 328.8 | 326.2 | 322.4 | 572.2 | 822.0 | 1994.1 | 3166.1 |
| 82.5° | 311.5 | 298.6 | 251.7 | 226.1 | 200.4 | 199.7 | 199.1 | 307.6 | 416.2 | 999.3 | 1583.1 |
| 85° | 155.4 | 147.7 | 122.0 | 105.3 | 88.6 | 84.1 | 80.3 | 97.6 | 115.6 | 237.6 | 359.6 |
| 87.5° | 45.0 | 38.5 | 35.3 | 32.1 | 28.9 | 27.0 | 25.7 | 26.3 | 27.0 | 28.3 | 28.9 |
| 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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Scaled Data Report

REPORT NUMBER: P1364373
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | *4187.2* | 4187.2 | 4187.2 |
| 2.5° | 4540.4 | 4556.5 | 4573.8 | 4591.8 | 4602.1 | 4612.4 | 4623.3 | 4633.6 | *4643.2* | 4633.6 | 4623.3 |
| 5° | 4905.2 | 4977.2 | 5026.0 | 5074.8 | 5112.0 | 5149.3 | 5170.5 | 5192.3 | *5195.5* | 5192.3 | 5170.5 |
| 7.5° | 5230.2 | 5316.2 | 5390.7 | 5465.2 | 5512.8 | 5560.3 | 5587.9 | 5616.2 | *5625.8* | 5616.2 | 5587.9 |
| 10° | 5440.8 | 5542.3 | 5614.2 | 5686.8 | 5731.1 | 5774.8 | 5796.6 | 5818.5 | *5824.9* | 5818.5 | 5796.6 |
| 12.5° | 5536.5 | 5633.5 | 5689.4 | 5744.6 | 5772.9 | 5800.5 | 5810.7 | 5819.7 | *5812.0* | 5819.7 | 5810.7 |
| 15° | 5544.9 | 5601.4 | 5625.1 | 5648.3 | 5634.8 | 5620.6 | 5600.7 | 5580.8 | *5568.0* | 5580.8 | 5600.7 |
| 17.5° | 5520.5 | 5541.0 | 5498.0 | 5455.6 | 5378.5 | 5301.5 | 5243.7 | 5185.9 | *5144.1* | 5185.9 | 5243.7 |
| 20° | 5510.2 | 5478.1 | 5363.8 | 5250.1 | 5105.6 | 4961.1 | 4864.1 | 4766.5 | *4707.4* | 4766.5 | 4864.1 |
| 22.5° | 5496.7 | 5406.2 | 5214.1 | 5022.1 | 4824.3 | 4627.1 | 4515.4 | 4404.3 | *4341.4* | 4404.3 | 4515.4 |
| 25° | 5502.5 | 5346.4 | 5087.0 | 4828.2 | 4595.7 | 4363.8 | 4242.5 | 4121.7 | *4052.4* | 4121.7 | 4242.5 |
| 27.5° | 5523.0 | 5285.4 | 4964.3 | 4643.2 | 4391.5 | 4139.1 | 4023.5 | 3907.9 | *3846.9* | 3907.9 | 4023.5 |
| 30° | 5589.8 | 5273.9 | 4889.8 | 4505.1 | 4241.8 | 3978.5 | 3865.5 | 3751.8 | *3686.3* | 3751.8 | 3865.5 |
| 32.5° | 5683.6 | 5285.4 | 4855.1 | 4424.8 | 4156.4 | 3888.6 | 3780.1 | 3672.2 | *3615.7* | 3672.2 | 3780.1 |
| 35° | 5876.3 | 5372.1 | 4894.9 | 4418.4 | 4169.2 | 3920.7 | 3841.1 | 3762.1 | *3731.3* | 3762.1 | 3841.1 |
| 37.5° | 6170.4 | 5580.8 | 5089.5 | 4598.2 | 4428.7 | 4259.2 | 4259.2 | 4259.2 | *4283.6* | 4259.2 | 4259.2 |
| 40° | 6656.5 | 5995.1 | 5530.1 | 5065.8 | 5055.5 | 5046.5 | 5154.4 | 5262.9 | *5311.1* | 5262.9 | 5154.4 |
| 42.5° | 7402.1 | 6703.4 | 6328.4 | 5953.3 | 6178.1 | 6402.9 | 6715.0 | 7027.1 | *7231.3* | 7027.1 | 6715.0 |
| 45° | 8393.7 | 7713.0 | 7451.0 | 7189.6 | 7689.9 | 8189.5 | 8741.2 | 9292.8 | *9684.6* | 9292.8 | 8741.2 |
| 47.5° | 9432.8 | 8859.3 | 8709.7 | 8560.7 | 9392.4 | 10224.0 | 11032.6 | 11841.1 | *12317.6* | 11841.1 | 11032.6 |
| 50° | 10569.5 | 10053.8 | 10024.9 | 9996.0 | 11103.9 | 12211.7 | 13255.3 | 14298.9 | *14880.1* | 14298.9 | 13255.3 |
| 52.5° | 11902.8 | 11336.3 | 11359.5 | 11381.3 | 12697.2 | 14013.1 | 15275.0 | 16537.0 | *17192.0* | 16537.0 | 15275.0 |
| 55° | 13412.6 | 12703.0 | 12699.1 | 12695.3 | 14207.0 | 15720.1 | 17270.4 | 18822.0 | *19696.7* | 18822.0 | 17270.4 |
| 57.5° | 15143.4 | 14478.7 | 14320.7 | 14162.1 | 15743.2 | 17323.7 | 19035.8 | 20748.6 | *21668.3* | 20748.6 | 19035.8 |
| 60° | 16707.2 | 16341.1 | 16088.1 | 15835.7 | 17459.2 | 19083.4 | 20852.0 | 22620.0 | *23537.1* | 22620.0 | 20852.0 |
| 62.5° | 17204.2 | 17858.7 | 17840.0 | 17821.4 | 19574.0 | 21326.6 | 23165.9 | 25006.5 | *25829.8* | 25006.5 | 23165.9 |
| 65° | *15827.3* | *16870.9* | *17588.9* | *18306.3* | *20424.9* | *22543.0* | *24459.3* | *26375.7* | *27217.0* | *26375.7* | *24459.3* |
| 67.5° | 14046.5 | 14966.8 | 15554.4 | 16142.0 | 18529.1 | 20916.9 | 23091.4 | 25265.9 | *26131.7* | 25265.9 | 23091.4 |
| 70° | 12559.1 | 13577.7 | 13997.7 | 14417.7 | 16445.8 | 18473.3 | 20193.7 | 21913.6 | *22252.7* | 21913.6 | 20193.7 |
| 72.5° | 11117.4 | 12329.2 | 12507.1 | 12685.0 | 14160.8 | 15636.6 | 16553.0 | 17469.5 | *16729.7* | 17469.5 | 16553.0 |
| 75° | 9477.8 | 10843.8 | 10962.6 | 11081.4 | 11541.2 | 12001.7 | 12234.8 | 12468.6 | *12047.9* | 12468.6 | 12234.8 |
| 77.5° | 6577.5 | 7761.1 | 8027.7 | 8294.2 | 8600.5 | 8907.5 | 8891.4 | 8875.4 | *8284.5* | 8875.4 | 8891.4 |
| 80° | 4091.5 | 5017.0 | 5051.6 | 5086.3 | 5316.2 | 5545.5 | 5779.9 | 6014.3 | *5638.6* | 6014.3 | 5779.9 |
| 82.5° | 2091.0 | 2599.7 | 2678.0 | 2756.4 | 2897.0 | 3037.7 | 3103.2 | 3169.3 | *2851.4* | 3169.3 | 3103.2 |
| 85° | 491.9 | 624.2 | 752.0 | 879.8 | 1027.5 | 1175.3 | 1158.6 | 1141.9 | *963.3* | 1141.9 | 1158.6 |
| 87.5° | 29.5 | 30.8 | 31.5 | 32.1 | 32.8 | 33.4 | 35.3 | 37.2 | *38.5* | 37.2 | 35.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1364373
CATALOG NUMBER: GSS-SB4C-840-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 | 4187.2 |
| 2.5° | 4612.4 | 4602.1 | 4591.8 | 4573.8 | 4556.5 | 4540.4 | 4524.4 |
| 5° | 5149.3 | 5112.0 | 5074.8 | 5026.0 | 4977.2 | 4905.2 | 4832.7 |
| 7.5° | 5560.3 | 5512.8 | 5465.2 | 5390.7 | 5316.2 | 5230.2 | 5144.1 |
| 10° | 5774.8 | 5731.1 | 5686.8 | 5614.2 | 5542.3 | 5440.8 | 5340.0 |
| 12.5° | 5800.5 | 5772.9 | 5744.6 | 5689.4 | 5633.5 | 5536.5 | 5439.5 |
| 15° | 5620.6 | 5634.8 | 5648.3 | 5625.1 | 5601.4 | 5544.9 | 5487.7 |
| 17.5° | 5301.5 | 5378.5 | 5455.6 | 5498.0 | 5541.0 | 5520.5 | 5500.6 |
| 20° | 4961.1 | 5105.6 | 5250.1 | 5363.8 | 5478.1 | 5510.2 | 5542.3 |
| 22.5° | 4627.1 | 4824.3 | 5022.1 | 5214.1 | 5406.2 | 5496.7 | 5587.3 |
| 25° | 4363.8 | 4595.7 | 4828.2 | 5087.0 | 5346.4 | 5502.5 | 5657.9 |
| 27.5° | 4139.1 | 4391.5 | 4643.2 | 4964.3 | 5285.4 | 5523.0 | 5760.7 |
| 30° | 3978.5 | 4241.8 | 4505.1 | 4889.8 | 5273.9 | 5589.8 | 5905.1 |
| 32.5° | 3888.6 | 4156.4 | 4424.8 | 4855.1 | 5285.4 | 5683.6 | 6081.8 |
| 35° | 3920.7 | 4169.2 | 4418.4 | 4894.9 | 5372.1 | 5876.3 | 6380.4 |
| 37.5° | 4259.2 | 4428.7 | 4598.2 | 5089.5 | 5580.8 | 6170.4 | 6759.3 |
| 40° | 5046.5 | 5055.5 | 5065.8 | 5530.1 | 5995.1 | 6656.5 | 7318.0 |
| 42.5° | 6402.9 | 6178.1 | 5953.3 | 6328.4 | 6703.4 | 7402.1 | 8101.5 |
| 45° | 8189.5 | 7689.9 | 7189.6 | 7451.0 | 7713.0 | 8393.7 | 9074.5 |
| 47.5° | 10224.0 | 9392.4 | 8560.7 | 8709.7 | 8859.3 | 9432.8 | 10005.7 |
| 50° | 12211.7 | 11103.9 | 9996.0 | 10024.9 | 10053.8 | 10569.5 | 11084.6 |
| 52.5° | 14013.1 | 12697.2 | 11381.3 | 11359.5 | 11336.3 | 11902.8 | 12468.6 |
| 55° | 15720.1 | 14207.0 | 12695.3 | 12699.1 | 12703.0 | 13412.6 | 14122.3 |
| 57.5° | 17323.7 | 15743.2 | 14162.1 | 14320.7 | 14478.7 | 15143.4 | 15808.1 |
| 60° | 19083.4 | 17459.2 | 15835.7 | 16088.1 | 16341.1 | 16707.2 | 17073.2 |
| 62.5° | 21326.6 | 19574.0 | 17821.4 | 17840.0 | 17858.7 | 17204.2 | 16549.8 |
| 65° | *22543.0* | *20424.9* | *18306.3* | *17588.9* | *16870.9* | *15827.3* | *14783.7* |
| 67.5° | 20916.9 | 18529.1 | 16142.0 | 15554.4 | 14966.8 | 14046.5 | 13126.8 |
| 70° | 18473.3 | 16445.8 | 14417.7 | 13997.7 | 13577.7 | 12559.1 | 11540.6 |
| 72.5° | 15636.6 | 14160.8 | 12685.0 | 12507.1 | 12329.2 | 11117.4 | 9906.1 |
| 75° | 12001.7 | 11541.2 | 11081.4 | 10962.6 | 10843.8 | 9477.8 | 8111.2 |
| 77.5° | 8907.5 | 8600.5 | 8294.2 | 8027.7 | 7761.1 | 6577.5 | 5394.6 |
| 80° | 5545.5 | 5316.2 | 5086.3 | 5051.6 | 5017.0 | 4091.5 | 3166.1 |
| 82.5° | 3037.7 | 2897.0 | 2756.4 | 2678.0 | 2599.7 | 2091.0 | 1583.1 |
| 85° | 1175.3 | 1027.5 | 879.8 | 752.0 | 624.2 | 491.9 | 359.6 |
| 87.5° | 33.4 | 32.8 | 32.1 | 31.5 | 30.8 | 29.5 | 28.9 |
| 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-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

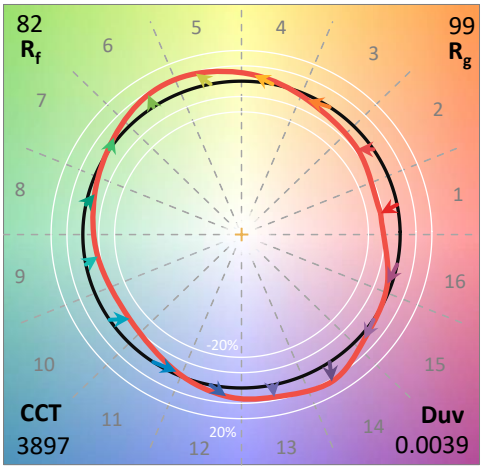
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-11 |
| 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-840-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3897 |
| CIE u': | 0.2249 |
| CIE v': | 0.5084 |
| Duv: | 0.0039 |
| CIE x: | 0.3882 |
| CIE y: | 0.3900 |
| CIE z: | 0.2218 |
| Peak Wavelength (nm): | 445 |
| Dominant Wavelength (nm): | 577 |
| Purity: | 33.54925 |
| Rf: | 81.8 |
| Rg: | 98.6 |

| | |
|---|---|
| CRI (Ra): | 80.2 |
| R1: | 78.9 |
| R2: | 83.5 |
| R3: | 88.3 |
| R4: | 82.1 |
| R5: | 78.8 |
| R6: | 78.4 |
| R7: | 85.8 |
| R8: | 65.8 |
| R9: | 6.7 |
| R10: | 61.9 |
| R11: | 81.9 |
| R12: | 58.9 |
| R13: | 79.2 |
| R14: | 93.2 |
| R15: | 71.9 |




## Test Conditions

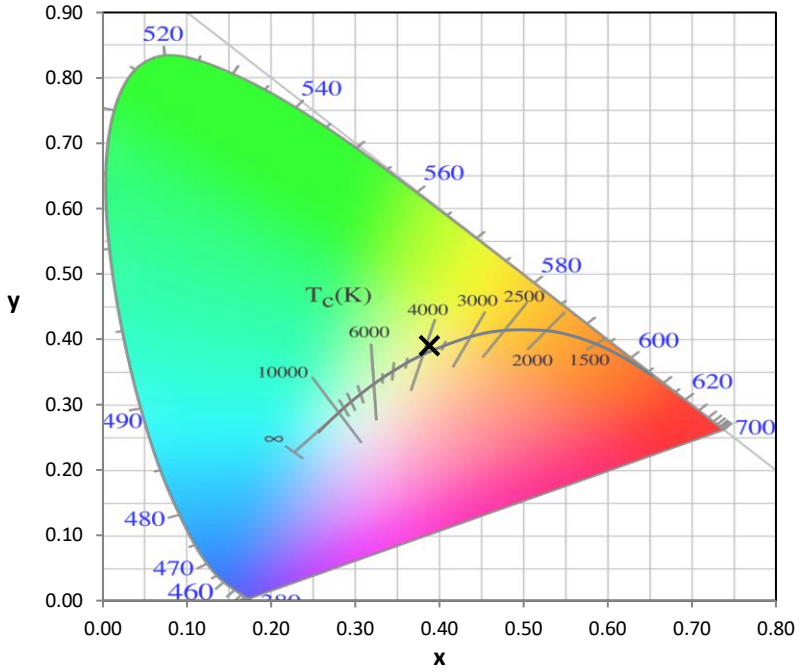
| | |
|---|---|
| Stabilization Time: | 24M |
| Operation Time: | 1H 24M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-11

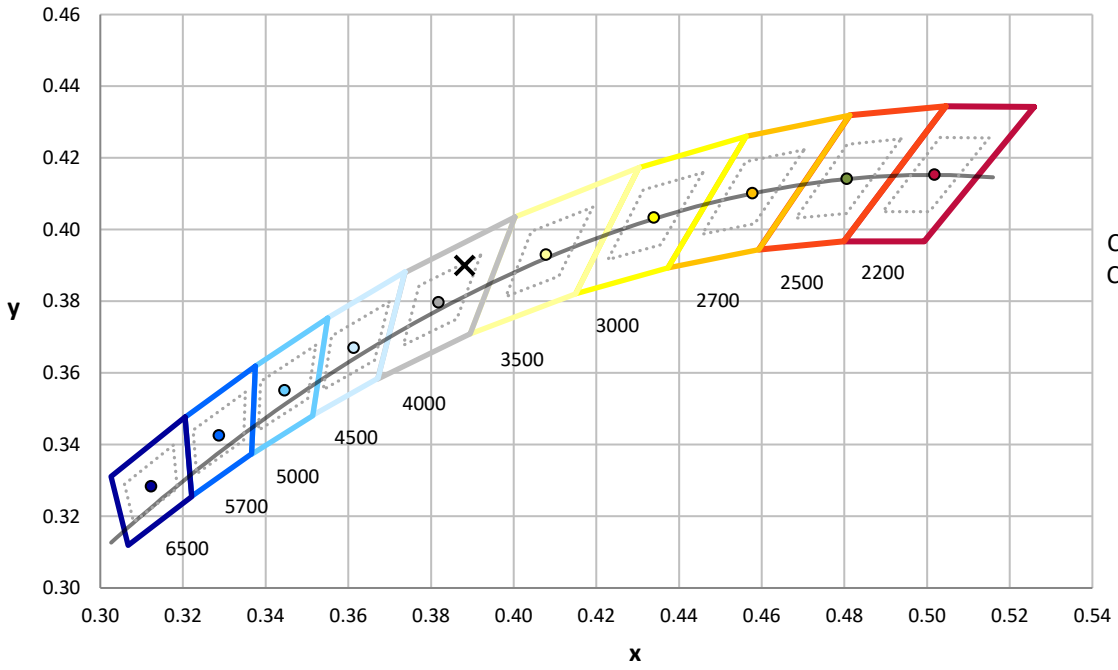
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-11

## CIE 1931 Chromaticity Diagram




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

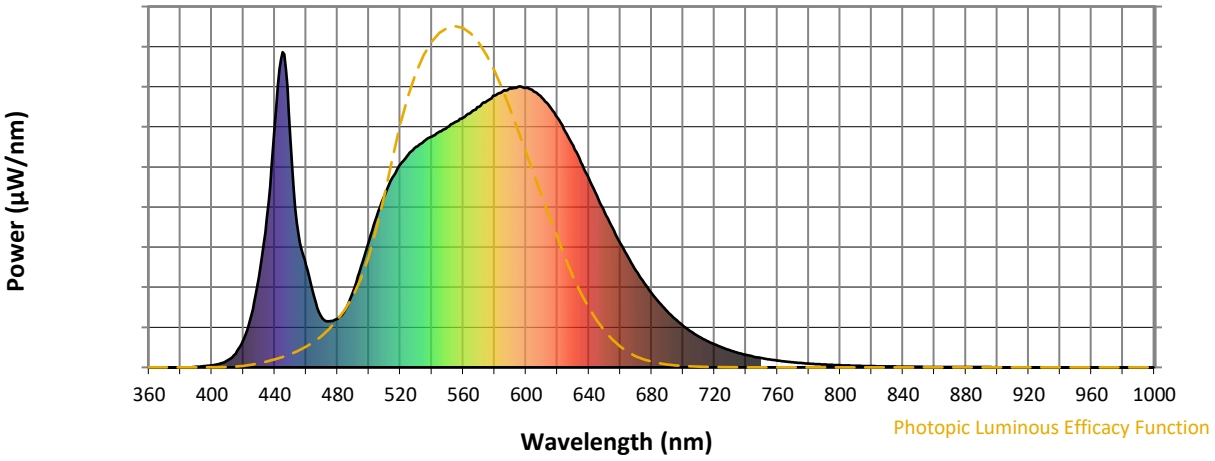



CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

## Photopic Flux vs. Wavelength

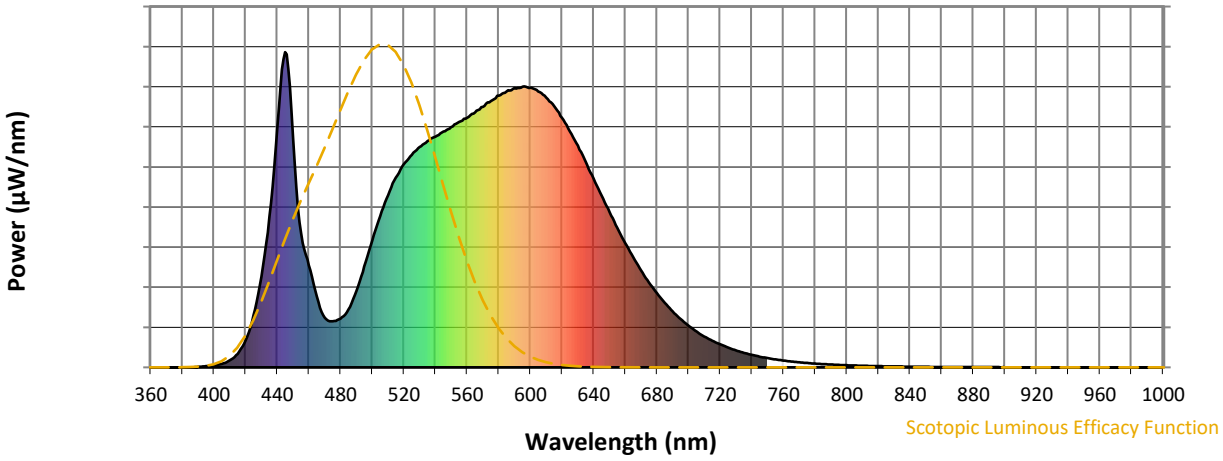



## Photopic Lumens: NR

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-11

## Scotopic Flux vs. Wavelength

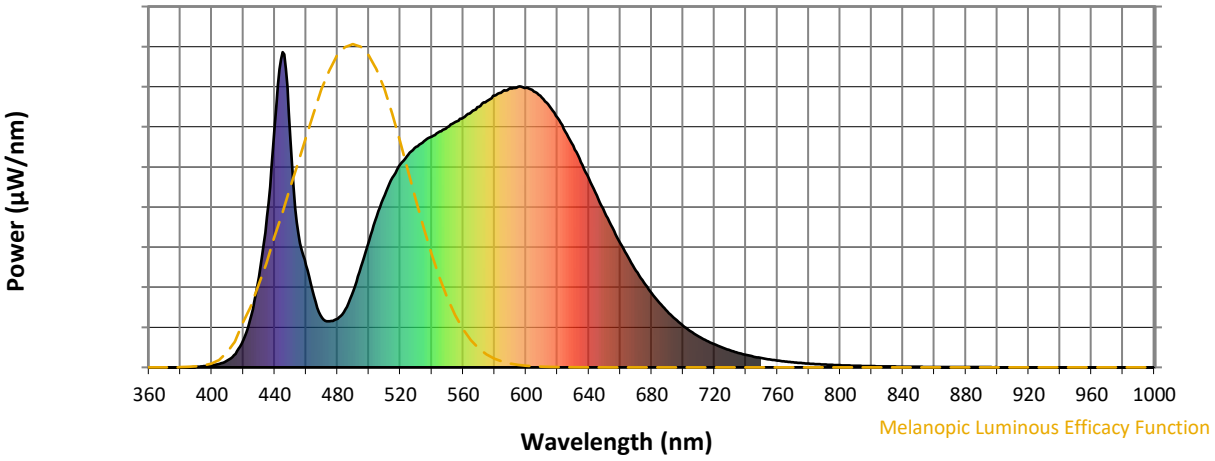



**Scotopic Lumens: NR** **S/P: 1.57**

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-11

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.06**

| 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 | 242 | NR | 620 | 792 | NR | 750 | 29 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 320 | NR | 625 | 748 | NR | 755 | 25 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 401 | NR | 630 | 703 | NR | 760 | 22 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 479 | NR | 635 | 651 | NR | 765 | 19 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 546 | NR | 640 | 599 | NR | 770 | 16 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 602 | NR | 645 | 545 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 645 | NR | 650 | 493 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 674 | NR | 655 | 443 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 699 | NR | 660 | 394 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 11 | NR | 535 | 718 | NR | 665 | 349 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 22 | NR | 540 | 732 | NR | 670 | 307 | NR | 800 | 7 | NR | 930 | 0 | NR |
| 415 | 43 | NR | 545 | 749 | NR | 675 | 269 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 86 | NR | 550 | 762 | NR | 680 | 235 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 164 | NR | 555 | 778 | NR | 685 | 204 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 288 | NR | 560 | 792 | NR | 690 | 178 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 478 | NR | 565 | 809 | NR | 695 | 153 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 766 | NR | 570 | 827 | NR | 700 | 132 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 1000 | NR | 575 | 845 | NR | 705 | 114 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 726 | NR | 580 | 862 | NR | 710 | 98 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 425 | NR | 585 | 875 | NR | 715 | 84 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 324 | NR | 590 | 887 | NR | 720 | 73 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 225 | NR | 595 | 890 | NR | 725 | 63 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 887 | NR | 730 | 54 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 147 | NR | 605 | 875 | NR | 735 | 46 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 154 | NR | 610 | 856 | NR | 740 | 40 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 184 | NR | 615 | 828 | NR | 745 | 34 | NR | 875 | 1 | NR | | | |

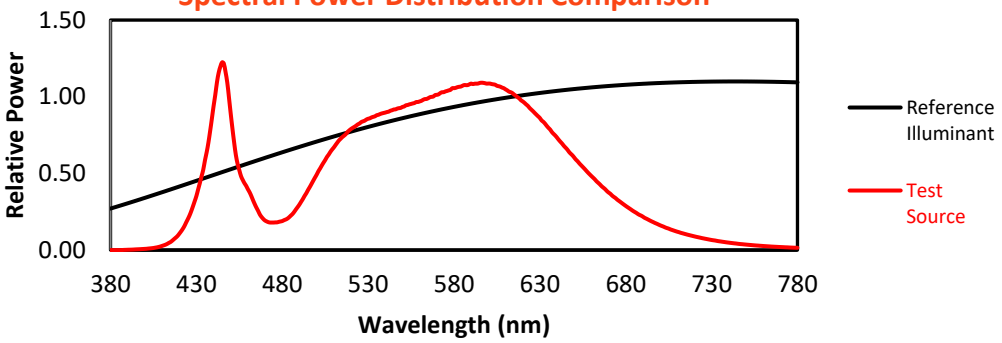
REPORT NUMBER: SP1-2407-184-11

# TM-30-18

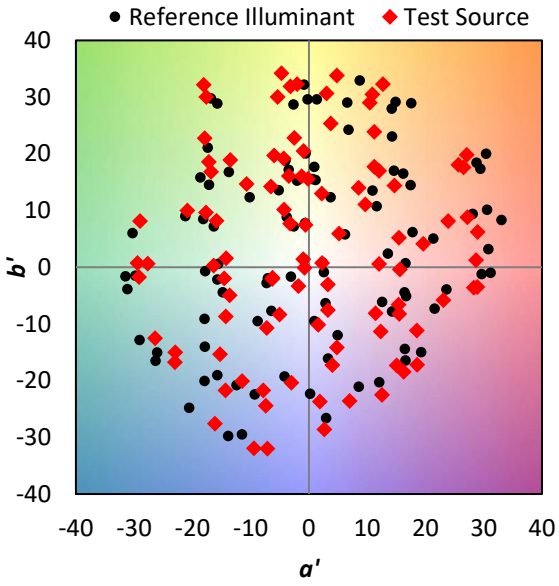
## Summary

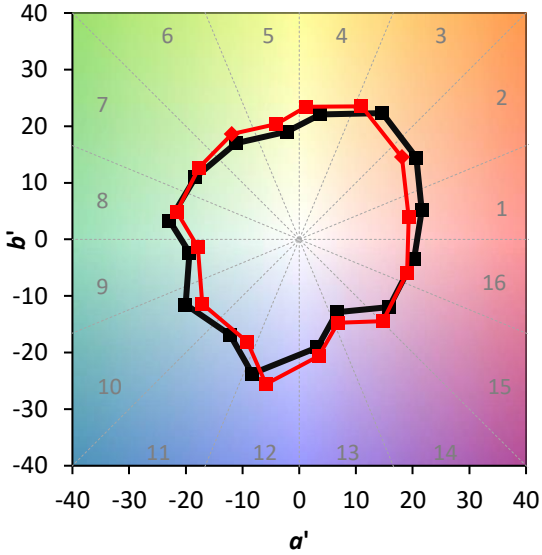
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$R_g$ = 98.6
CIE $R_a$ = 80.2
$R_9$ = 6.7

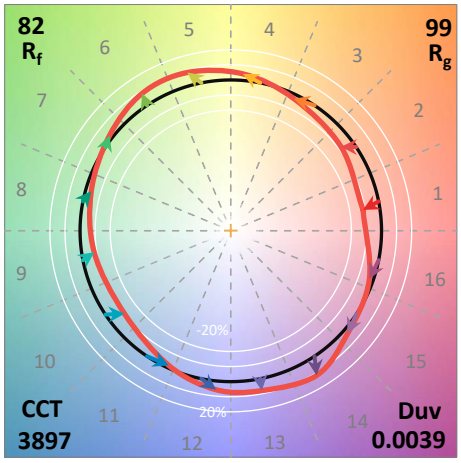
## Spectral Power Distribution Comparison

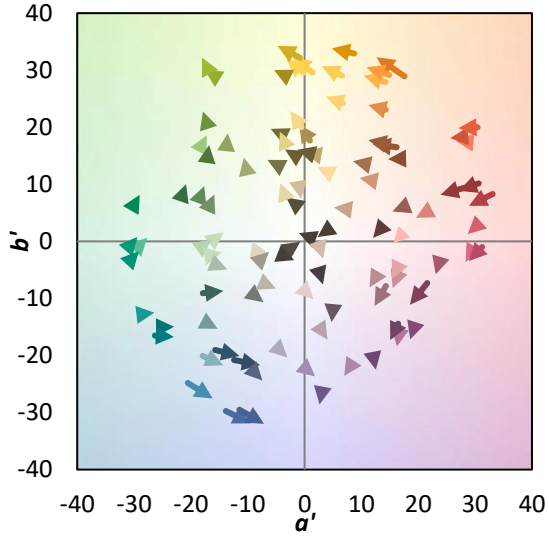



## Color Vector Graphics



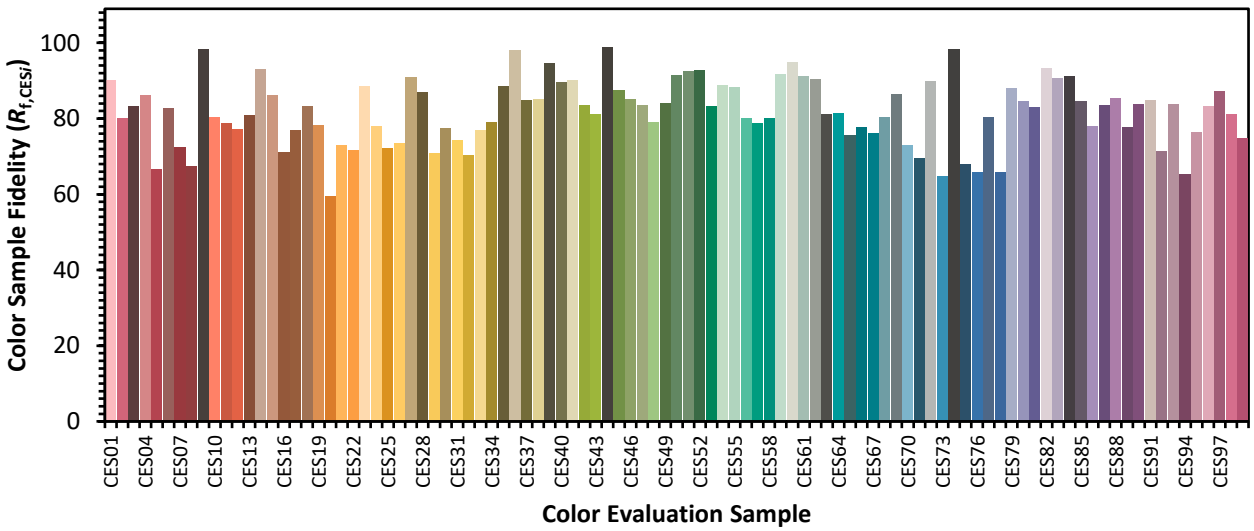



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**Individual Sample Fidelity Index ($R_{f,i}$)**

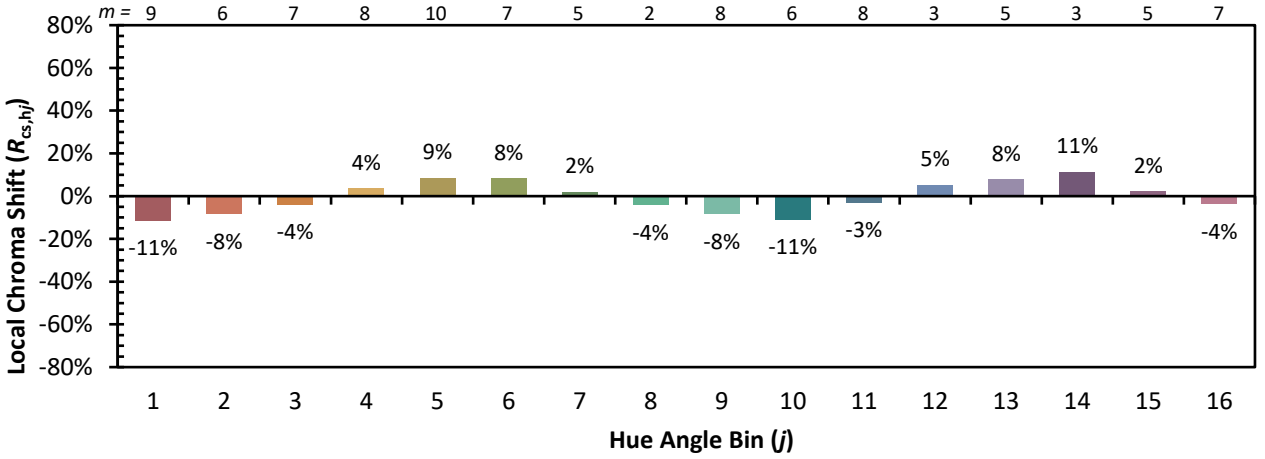
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 73 | CES51 = 93 | CES76 = 66 |
| CES02 = 61 | CES27 = 91 | CES52 = 93 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 83 | CES78 = 66 |
| CES04 = 69 | CES29 = 71 | CES54 = 89 | CES79 = 88 |
| CES05 = 48 | CES30 = 77 | CES55 = 88 | CES80 = 85 |
| CES06 = 50 | CES31 = 74 | CES56 = 80 | CES81 = 83 |
| CES07 = 41 | CES32 = 70 | CES57 = 79 | CES82 = 93 |
| CES08 = 40 | CES33 = 77 | CES58 = 80 | CES83 = 91 |
| CES09 = 29 | CES34 = 79 | CES59 = 92 | CES84 = 91 |
| CES10 = 74 | CES35 = 88 | CES60 = 95 | CES85 = 84 |
| CES11 = 57 | CES36 = 98 | CES61 = 91 | CES86 = 78 |
| CES12 = 63 | CES37 = 85 | CES62 = 90 | CES87 = 84 |
| CES13 = 42 | CES38 = 85 | CES63 = 81 | CES88 = 85 |
| CES14 = 74 | CES39 = 95 | CES64 = 81 | CES89 = 78 |
| CES15 = 71 | CES40 = 90 | CES65 = 76 | CES90 = 84 |
| CES16 = 47 | CES41 = 90 | CES66 = 78 | CES91 = 85 |
| CES17 = 49 | CES42 = 84 | CES67 = 76 | CES92 = 71 |
| CES18 = 56 | CES43 = 81 | CES68 = 80 | CES93 = 84 |
| CES19 = 71 | CES44 = 99 | CES69 = 86 | CES94 = 65 |
| CES20 = 65 | CES45 = 87 | CES70 = 73 | CES95 = 77 |
| CES21 = 86 | CES46 = 85 | CES71 = 70 | CES96 = 83 |
| CES22 = 78 | CES47 = 84 | CES72 = 90 | CES97 = 87 |
| CES23 = 91 | CES48 = 79 | CES73 = 65 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 75 |
| CES25 = 71 | CES50 = 91 | CES75 = 68 | |

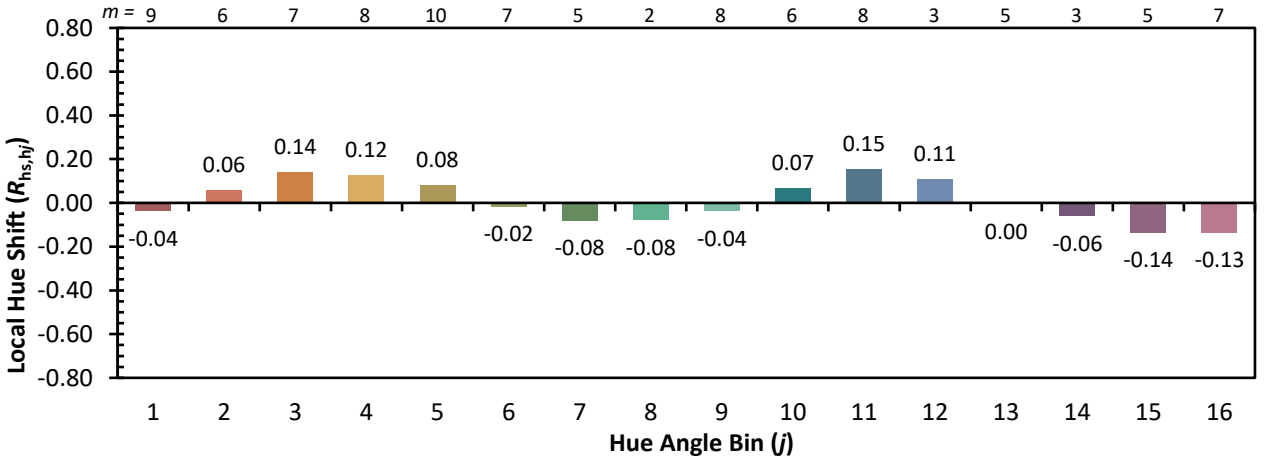


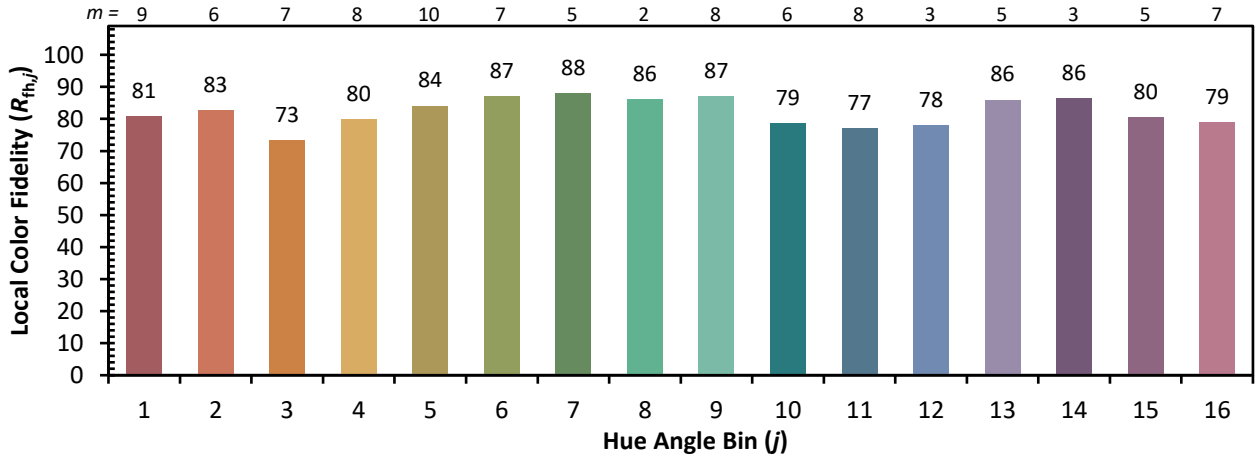
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## Color Rendition by Hue-Angle Bin



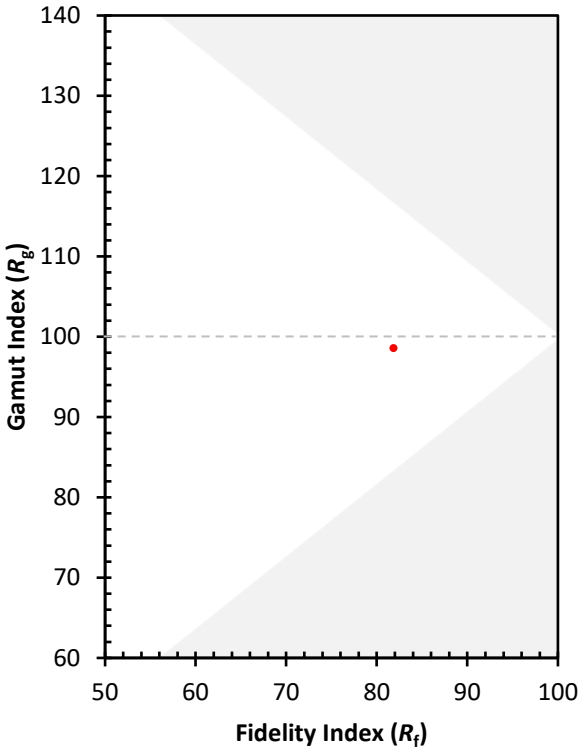



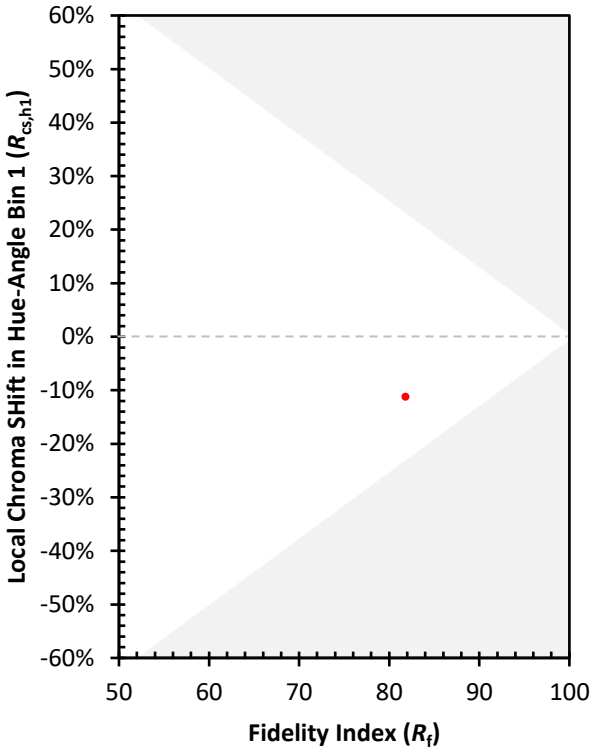



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## Measure Comparisons




(END OF REPORT)