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: P1364206

Luminaire Tested: **GSS-SB4D-730-U-SLR**

Issue Date: 02/18/2026

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1364206 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4D-730-U-SLR |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 70CRI 3000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC |
| Light Source: | (104) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 30383.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 127.7 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

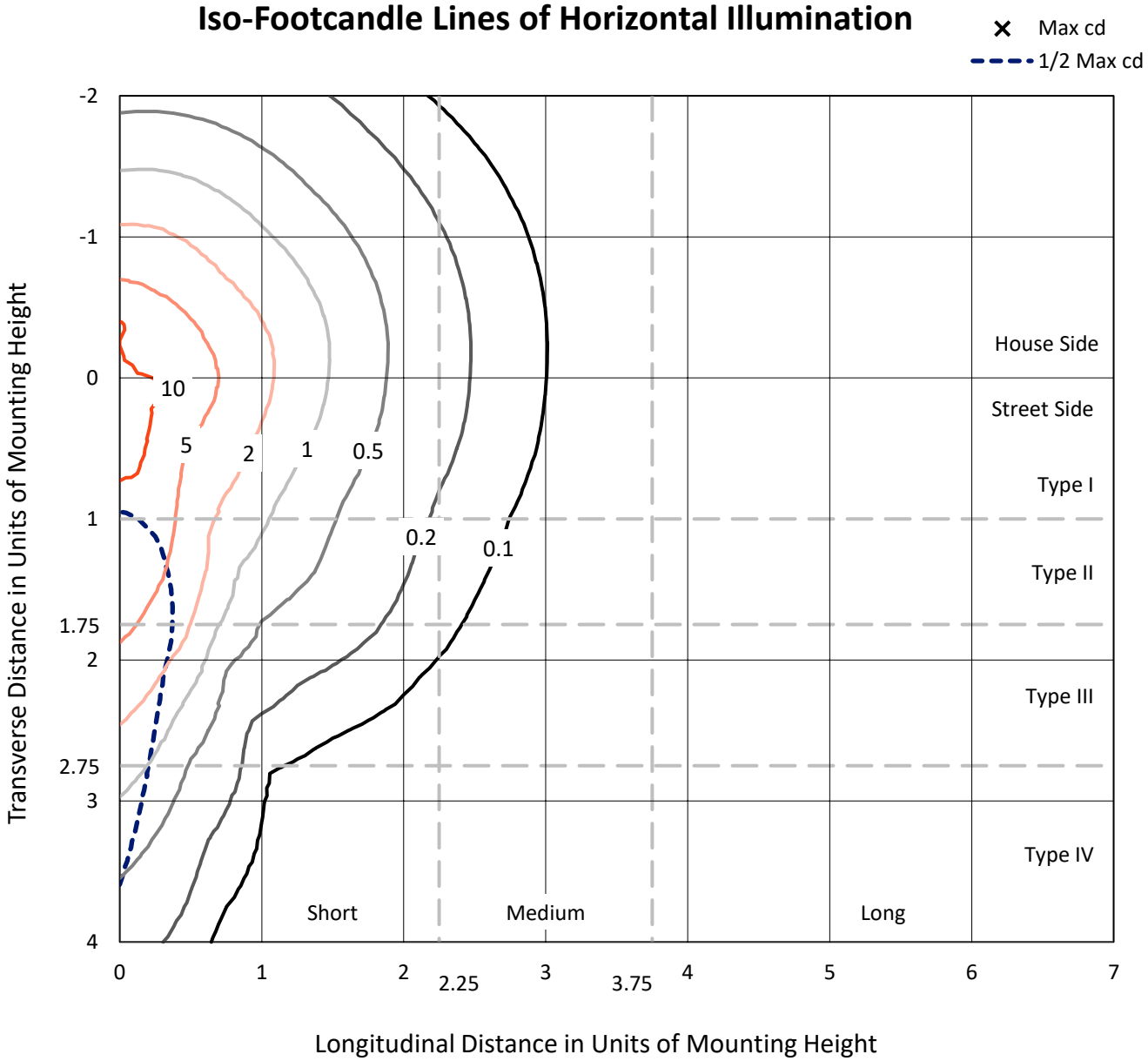
| | |
|---|---|
| Input Watts (W): | 238 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | -- |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



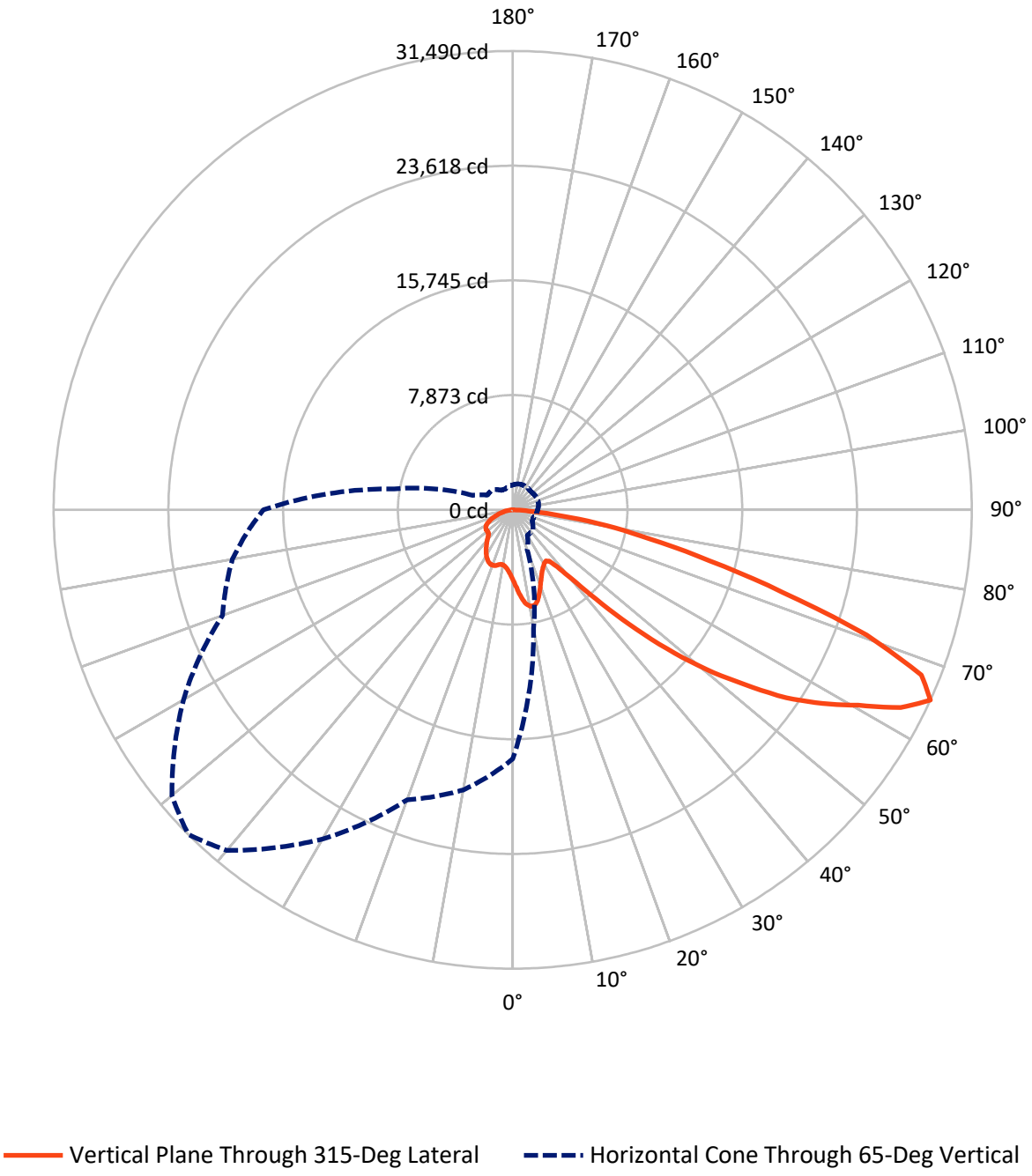

Based on 20 foot mounting height. Maximum calculated value = 14.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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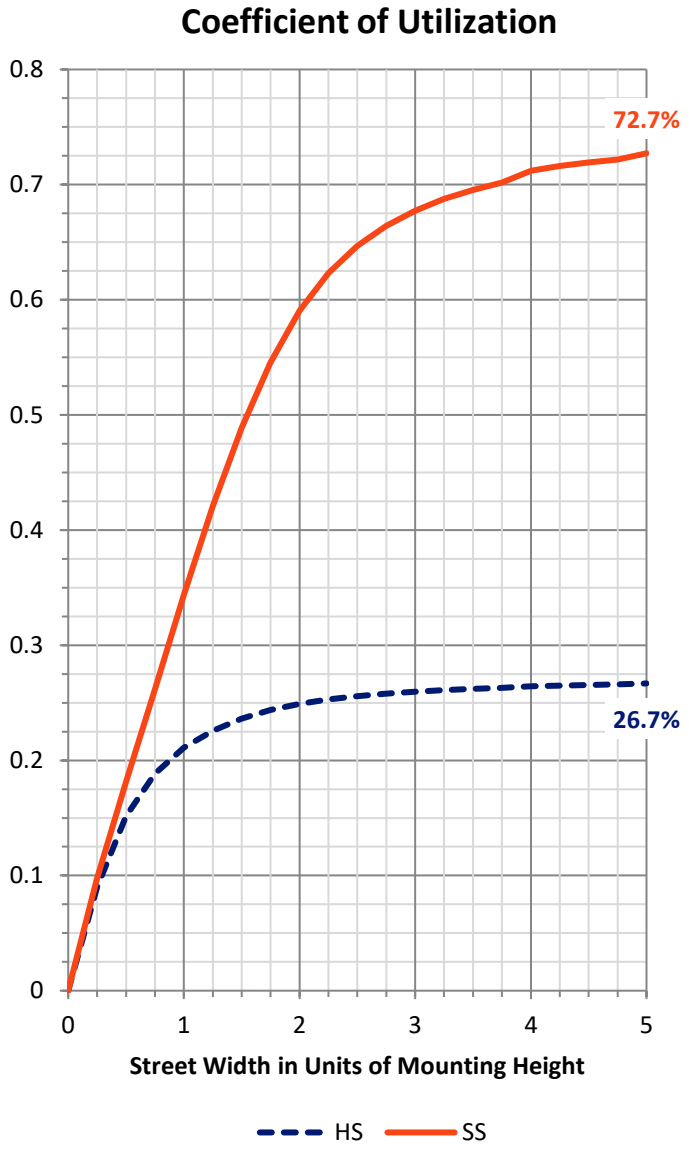
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 8173.7 | 0.0 | 8173.7 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 22209.4 | 0.0 | 22209.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 30383.1 | 0.0 | 30383.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 478.4 | 1.6 |
| 10°-20° | 1465.9 | 4.8 |
| 20°-30° | 2268.8 | 7.5 |
| 30°-40° | 2814.9 | 9.3 |
| 40°-50° | 4116.2 | 13.5 |
| 50°-60° | 6447.6 | 21.2 |
| 60°-70° | 7650.4 | 25.2 |
| 70°-80° | 4462.1 | 14.7 |
| 80°-90° | 678.8 | 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° | 30383.1 | 100.0 |
| 0°-180° | 30383.1 | 100.0 |



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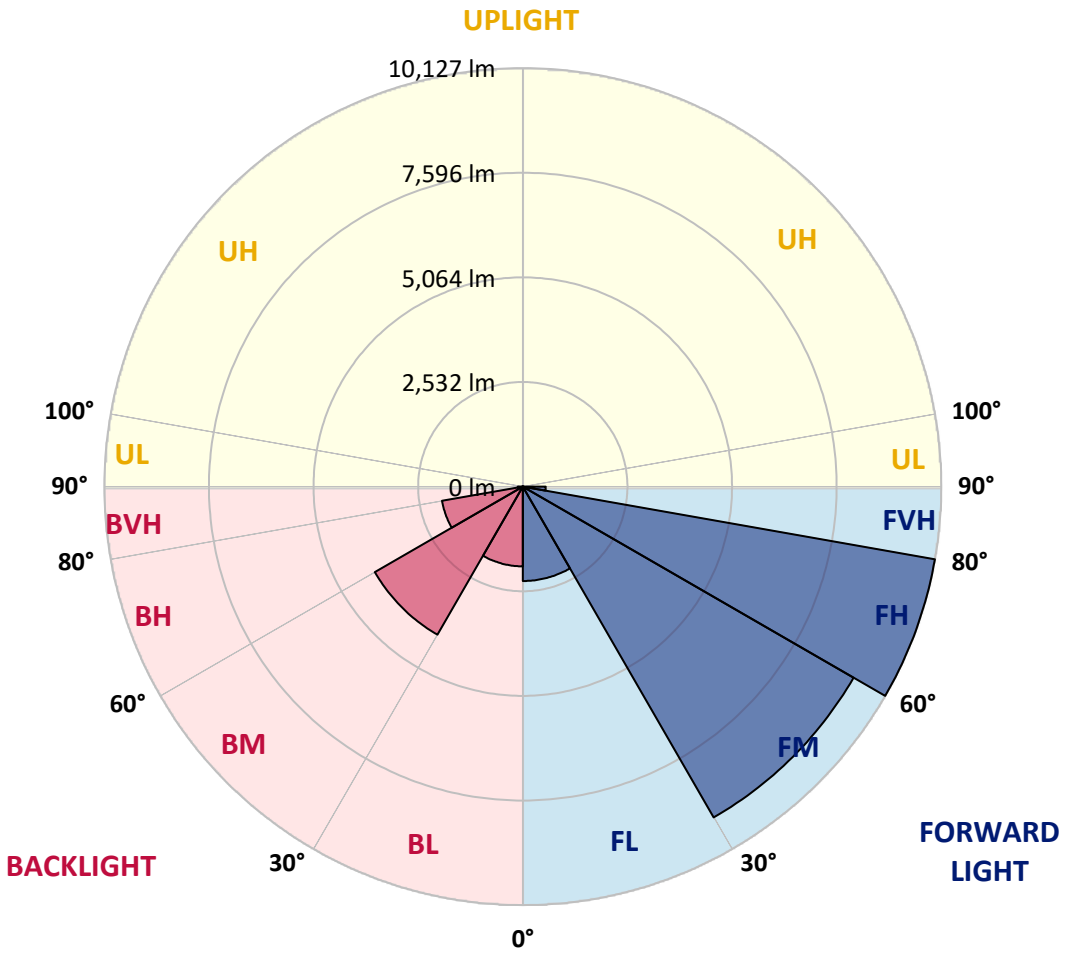
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2283.6 | 7.5 | | | |
| FM | (30°-60°) | 9243.2 | 30.4 | | | |
| FH | (60°-80°) | 10127.5 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 555.2 | 1.8 | | | G4/750 |
| BL | (0°-30°) | 1929.6 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 4135.5 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1985.1 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 123.6 | 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° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 5234.7 | 5187.2 | 5140.4 | 5097.3 | 5054.2 | 5011.1 | 4967.2 | 4925.6 | 4883.3 | 4840.9 | 4803.8 |
| 5° | 5591.4 | 5507.4 | 5424.2 | 5336.5 | 5249.6 | 5164.2 | 5078.7 | 4997.7 | 4917.5 | 4833.5 | 4761.4 |
| 7.5° | 5951.8 | 5810.6 | 5669.4 | 5536.4 | 5403.4 | 5284.5 | 5165.6 | 5059.4 | 4952.4 | 4840.9 | 4754.0 |
| 10° | 6178.4 | 6009.7 | 5840.3 | 5675.4 | 5509.7 | 5363.3 | 5216.2 | 5093.6 | 4971.0 | 4852.1 | 4759.2 |
| 12.5° | 6293.6 | 6125.7 | 5957.7 | 5772.7 | 5587.7 | 5423.5 | 5259.3 | 5124.0 | 4989.5 | 4859.5 | 4768.9 |
| 15° | 6349.3 | 6179.1 | 6009.7 | 5821.7 | 5633.8 | 5456.9 | 5279.3 | 5127.0 | 4974.7 | 4829.8 | 4749.5 |
| 17.5° | 6364.2 | 6205.2 | 6046.9 | 5846.3 | 5645.6 | 5443.5 | 5242.2 | 5064.6 | 4887.7 | 4718.3 | 4650.0 |
| 20° | 6412.5 | 6252.0 | 6091.5 | 5876.0 | 5660.5 | 5423.5 | 5186.4 | 4953.1 | 4719.8 | 4495.4 | 4452.3 |
| 22.5° | 6464.5 | 6317.4 | 6171.0 | 5933.9 | 5697.7 | 5407.9 | 5118.1 | 4825.3 | 4532.6 | 4265.1 | 4224.2 |
| 25° | 6546.2 | 6419.2 | 6292.1 | 6033.5 | 5774.9 | 5406.4 | 5037.8 | 4673.0 | 4308.2 | 4001.3 | 3997.6 |
| 27.5° | 6665.1 | 6567.8 | 6470.4 | 6179.1 | 5888.6 | 5420.5 | 4952.4 | 4517.0 | 4080.8 | 3767.2 | 3785.8 |
| 30° | 6832.3 | 6755.8 | 6680.0 | 6351.5 | 6022.4 | 5451.0 | 4880.3 | 4381.0 | 3882.4 | 3577.8 | 3597.8 |
| 32.5° | 7036.6 | 6989.1 | 6941.5 | 6554.4 | 6167.3 | 5485.1 | 4803.8 | 4262.1 | 3721.2 | 3440.3 | 3440.3 |
| 35° | 7382.1 | 7322.7 | 7263.2 | 6769.9 | 6277.2 | 5477.0 | 4677.5 | 4126.9 | 3575.5 | 3358.6 | 3312.5 |
| 37.5° | 7820.5 | 7749.9 | 7679.4 | 7032.9 | 6386.5 | 5453.9 | 4521.4 | 3976.8 | 3432.9 | 3262.0 | 3174.3 |
| 40° | 8467.0 | 8328.0 | 8188.3 | 7333.8 | 6479.3 | 5401.9 | 4324.5 | 3797.7 | 3270.9 | 3135.6 | 3025.7 |
| 42.5° | 9373.5 | 9079.2 | 8784.3 | 7666.7 | 6547.7 | 5312.0 | 4075.6 | 3584.4 | 3092.5 | 2998.2 | 2862.2 |
| 45° | 10499.2 | 10027.4 | 9555.5 | 8118.5 | 6681.4 | 5250.3 | 3819.2 | 3367.5 | 2916.4 | 2831.0 | 2695.8 |
| 47.5° | 11576.6 | 10979.2 | 10381.8 | 8582.9 | 6784.0 | 5178.3 | 3572.6 | 3152.0 | 2732.9 | 2634.1 | 2507.8 |
| 50° | 12824.9 | 12015.0 | 11205.1 | 8987.9 | 6770.6 | 5055.7 | 3340.0 | 2960.3 | 2579.8 | 2444.6 | 2319.8 |
| 52.5° | 14426.2 | 13140.0 | 11853.0 | 9179.6 | 6505.3 | 4804.5 | 3104.4 | 2787.9 | 2472.8 | 2299.7 | 2166.0 |
| 55° | 16339.5 | 14270.1 | 12200.8 | 9129.0 | 6057.3 | 4471.6 | 2884.5 | 2643.7 | 2401.5 | 2229.1 | 2071.6 |
| 57.5° | 18290.0 | 15219.0 | 12148.8 | 8853.4 | 5558.0 | 4123.1 | 2688.3 | 2521.9 | 2355.4 | 2210.6 | 2017.4 |
| 60° | 19753.8 | 15644.0 | 11533.5 | 8192.8 | 4852.1 | 3682.5 | 2513.0 | 2396.3 | 2279.7 | 2166.0 | 1972.8 |
| 62.5° | 19148.2 | 14701.1 | 10254.0 | 7110.2 | 3966.4 | 3123.8 | 2281.1 | 2215.8 | 2151.1 | 2102.8 | 1918.5 |
| 65° | *17104.9* | *12680.0* | *8255.2* | *5577.3* | *2899.4* | *2455.0* | *2009.9* | *1995.8* | *1982.4* | *1969.1* | *1816.7* |
| 67.5° | 15187.8 | 10890.0 | 6592.3 | 4340.1 | 2088.0 | 1876.9 | 1665.9 | 1705.3 | 1744.7 | 1764.7 | 1660.7 |
| 70° | 13352.5 | 9251.6 | 5150.8 | 3325.9 | 1500.9 | 1426.6 | 1352.3 | 1411.0 | 1469.7 | 1463.8 | 1413.3 |
| 72.5° | 11461.4 | 7682.3 | 3902.5 | 2500.3 | 1098.2 | 1096.7 | 1096.0 | 1140.6 | 1185.2 | 1125.7 | 1157.7 |
| 75° | 9384.6 | 6133.8 | 2883.0 | 1853.2 | 823.3 | 818.1 | 813.6 | 866.4 | 919.9 | 943.7 | 964.5 |
| 77.5° | 6241.6 | 4024.3 | 1807.1 | 1197.8 | 588.5 | 592.9 | 595.9 | 653.9 | 711.8 | 780.2 | 783.9 |
| 80° | 3663.2 | 2307.1 | 951.1 | 662.1 | 373.0 | 377.5 | 380.4 | 441.4 | 501.6 | 598.1 | 594.4 |
| 82.5° | 1831.6 | 1156.2 | 481.5 | 355.9 | 230.3 | 231.1 | 231.8 | 261.6 | 291.3 | 345.5 | 360.4 |
| 85° | 416.1 | 274.9 | 133.7 | 112.9 | 92.9 | 97.3 | 102.5 | 121.9 | 141.2 | 170.9 | 179.8 |
| 87.5° | 33.4 | 32.7 | 31.2 | 30.5 | 29.7 | 31.2 | 33.4 | 37.2 | 40.9 | 44.6 | 52.0 |
| 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° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 4763.7 | 4724.3 | 4693.1 | 4662.6 | 4635.8 | 4608.4 | 4576.4 | 4543.7 | 4520.7 | 4496.9 | 4481.3 |
| 5° | 4690.1 | 4620.2 | 4562.3 | 4504.3 | 4456.8 | 4407.7 | 4364.6 | 4320.8 | 4286.6 | 4251.7 | 4223.5 |
| 7.5° | 4667.1 | 4580.9 | 4505.8 | 4430.0 | 4366.1 | 4302.2 | 4248.7 | 4194.5 | 4143.2 | 4092.7 | 4060.0 |
| 10° | 4667.8 | 4577.1 | 4499.9 | 4422.6 | 4355.0 | 4287.4 | 4216.8 | 4146.2 | 4089.7 | 4033.2 | 3984.2 |
| 12.5° | 4693.1 | 4618.0 | 4563.8 | 4510.3 | 4447.9 | 4385.4 | 4301.5 | 4216.8 | 4140.2 | 4064.4 | 4004.3 |
| 15° | 4700.5 | 4651.5 | 4647.0 | 4642.5 | 4621.0 | 4599.4 | 4521.4 | 4443.4 | 4337.9 | 4231.6 | 4145.4 |
| 17.5° | 4643.3 | 4636.6 | 4710.2 | 4783.7 | 4826.1 | 4868.4 | 4814.2 | 4759.2 | 4610.6 | 4462.0 | 4333.4 |
| 20° | 4494.7 | 4536.3 | 4680.4 | 4823.8 | 4938.3 | 5052.7 | 5046.8 | 5041.5 | 4847.6 | 4652.9 | 4484.3 |
| 22.5° | 4286.6 | 4348.3 | 4536.3 | 4724.3 | 4889.2 | 5054.2 | 5096.5 | 5138.1 | 4947.9 | 4757.0 | 4548.9 |
| 25° | 4065.2 | 4132.8 | 4306.7 | 4480.6 | 4658.1 | 4835.7 | 4914.5 | 4993.3 | 4836.5 | 4679.7 | 4477.6 |
| 27.5° | 3850.5 | 3915.8 | 4045.1 | 4174.4 | 4317.1 | 4459.7 | 4548.2 | 4636.6 | 4540.7 | 4444.9 | 4281.4 |
| 30° | 3648.3 | 3698.9 | 3792.5 | 3886.1 | 3982.7 | 4079.3 | 4149.9 | 4220.5 | 4157.3 | 4094.2 | 3976.8 |
| 32.5° | 3461.8 | 3483.4 | 3544.3 | 3605.2 | 3677.3 | 3748.7 | 3788.0 | 3826.7 | 3777.6 | 3728.6 | 3651.3 |
| 35° | 3294.7 | 3276.8 | 3316.9 | 3357.1 | 3415.0 | 3473.7 | 3503.4 | 3533.2 | 3492.3 | 3451.4 | 3382.3 |
| 37.5° | 3126.7 | 3077.7 | 3097.0 | 3114.8 | 3164.6 | 3213.7 | 3256.0 | 3299.1 | 3269.4 | 3239.7 | 3181.0 |
| 40° | 2954.3 | 2883.0 | 2881.5 | 2879.3 | 2926.8 | 2973.7 | 3027.2 | 3079.9 | 3074.7 | 3068.8 | 3013.0 |
| 42.5° | 2771.6 | 2680.9 | 2671.2 | 2661.6 | 2708.4 | 2755.2 | 2811.7 | 2868.1 | 2879.3 | 2890.4 | 2844.4 |
| 45° | 2602.1 | 2510.0 | 2495.1 | 2480.3 | 2520.4 | 2562.0 | 2623.7 | 2686.1 | 2712.1 | 2738.1 | 2696.5 |
| 47.5° | 2428.3 | 2348.0 | 2339.1 | 2329.4 | 2371.8 | 2414.9 | 2483.3 | 2552.4 | 2579.8 | 2608.1 | 2579.8 |
| 50° | 2254.4 | 2188.3 | 2199.4 | 2210.6 | 2257.4 | 2303.4 | 2356.9 | 2411.2 | 2462.4 | 2513.0 | 2507.8 |
| 52.5° | 2116.9 | 2067.1 | 2102.1 | 2136.2 | 2178.6 | 2221.7 | 2277.4 | 2333.2 | 2386.7 | 2440.9 | 2449.1 |
| 55° | 2016.6 | 1961.6 | 2010.7 | 2059.7 | 2111.0 | 2162.3 | 2214.3 | 2266.3 | 2316.8 | 2366.6 | 2377.7 |
| 57.5° | 1940.1 | 1863.6 | 1912.6 | 1961.6 | 2017.4 | 2073.1 | 2125.1 | 2177.1 | 2235.8 | 2294.5 | 2303.4 |
| 60° | 1876.2 | 1779.6 | 1812.3 | 1844.2 | 1901.4 | 1957.9 | 2012.2 | 2065.7 | 2125.1 | 2184.5 | 2196.4 |
| 62.5° | 1792.2 | 1665.9 | 1670.4 | 1673.3 | 1738.0 | 1801.9 | 1846.5 | 1891.0 | 1947.5 | 2004.7 | 2021.8 |
| 65° | *1680.8* | *1545.5* | *1530.7* | *1515.8* | *1576.7* | *1638.4* | *1673.3* | *1709.0* | *1758.0* | *1807.1* | *1824.2* |
| 67.5° | 1541.1 | 1420.7 | 1390.2 | 1359.8 | 1416.2 | 1472.7 | 1501.7 | 1530.7 | 1564.1 | 1597.5 | 1616.9 |
| 70° | 1341.9 | 1270.6 | 1251.3 | 1232.0 | 1278.0 | 1324.1 | 1349.4 | 1374.6 | 1401.4 | 1428.1 | 1438.5 |
| 72.5° | 1141.3 | 1125.7 | 1111.6 | 1098.2 | 1133.1 | 1168.1 | 1189.6 | 1211.2 | 1236.4 | 1261.7 | 1267.6 |
| 75° | 955.6 | 947.4 | 937.0 | 927.3 | 954.1 | 980.8 | 997.2 | 1014.3 | 1040.3 | 1066.3 | 1077.4 |
| 77.5° | 764.6 | 744.5 | 734.1 | 722.2 | 746.8 | 771.3 | 786.9 | 802.5 | 824.0 | 845.6 | 848.6 |
| 80° | 570.7 | 546.1 | 538.0 | 529.0 | 546.9 | 564.7 | 570.7 | 575.9 | 593.7 | 610.8 | 610.8 |
| 82.5° | 360.4 | 360.4 | 355.2 | 349.2 | 345.5 | 341.8 | 334.4 | 326.9 | 344.8 | 362.6 | 368.5 |
| 85° | 181.3 | 182.0 | 173.9 | 165.0 | 154.6 | 142.7 | 140.4 | 137.5 | 136.7 | 135.2 | 140.4 |
| 87.5° | 56.5 | 60.9 | 65.4 | 68.4 | 72.8 | 75.8 | 73.6 | 70.6 | 67.6 | 65.4 | 59.4 |
| 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° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 4465.7 | 4458.3 | 4450.8 | 4444.9 | 4439.7 | 4436.0 | 4439.7 | 4444.9 | 4450.8 | 4458.3 | 4465.7 |
| 5° | 4194.5 | 4182.6 | 4170.0 | 4161.8 | 4153.6 | 4146.2 | 4153.6 | 4161.8 | 4170.0 | 4182.6 | 4194.5 |
| 7.5° | 4027.3 | 4008.0 | 3988.7 | 3974.5 | 3960.4 | 3953.0 | 3960.4 | 3974.5 | 3988.7 | 4008.0 | 4027.3 |
| 10° | 3936.6 | 3909.2 | 3882.4 | 3867.5 | 3852.7 | 3841.5 | 3852.7 | 3867.5 | 3882.4 | 3909.2 | 3936.6 |
| 12.5° | 3944.1 | 3909.9 | 3877.2 | 3854.9 | 3832.6 | 3819.2 | 3832.6 | 3854.9 | 3877.2 | 3909.9 | 3944.1 |
| 15° | 4058.5 | 4010.9 | 3961.9 | 3934.4 | 3906.9 | 3886.1 | 3906.9 | 3934.4 | 3961.9 | 4010.9 | 4058.5 |
| 17.5° | 4205.6 | 4135.8 | 4065.9 | 4041.4 | 4016.1 | 4005.0 | 4016.1 | 4041.4 | 4065.9 | 4135.8 | 4205.6 |
| 20° | 4315.6 | 4222.0 | 4129.8 | 4092.7 | 4055.5 | 4042.2 | 4055.5 | 4092.7 | 4129.8 | 4222.0 | 4315.6 |
| 22.5° | 4340.9 | 4230.9 | 4120.2 | 4085.3 | 4049.6 | 4034.7 | 4049.6 | 4085.3 | 4120.2 | 4230.9 | 4340.9 |
| 25° | 4276.2 | 4160.3 | 4043.6 | 4008.0 | 3971.6 | 3960.4 | 3971.6 | 4008.0 | 4043.6 | 4160.3 | 4276.2 |
| 27.5° | 4117.9 | 4015.4 | 3912.1 | 3874.2 | 3835.6 | 3811.8 | 3835.6 | 3874.2 | 3912.1 | 4015.4 | 4117.9 |
| 30° | 3860.1 | 3783.6 | 3707.8 | 3684.0 | 3659.5 | 3648.3 | 3659.5 | 3684.0 | 3707.8 | 3783.6 | 3860.1 |
| 32.5° | 3574.0 | 3526.5 | 3478.9 | 3463.3 | 3447.7 | 3440.3 | 3447.7 | 3463.3 | 3478.9 | 3526.5 | 3574.0 |
| 35° | 3314.0 | 3279.8 | 3245.6 | 3233.0 | 3221.1 | 3209.9 | 3221.1 | 3233.0 | 3245.6 | 3279.8 | 3314.0 |
| 37.5° | 3122.3 | 3082.1 | 3040.5 | 3018.2 | 2996.0 | 2979.6 | 2996.0 | 3018.2 | 3040.5 | 3082.1 | 3122.3 |
| 40° | 2957.3 | 2899.4 | 2842.1 | 2811.7 | 2780.5 | 2764.1 | 2780.5 | 2811.7 | 2842.1 | 2899.4 | 2957.3 |
| 42.5° | 2797.6 | 2730.7 | 2663.8 | 2617.0 | 2570.9 | 2541.2 | 2570.9 | 2617.0 | 2663.8 | 2730.7 | 2797.6 |
| 45° | 2654.2 | 2579.1 | 2504.1 | 2448.3 | 2392.6 | 2355.4 | 2392.6 | 2448.3 | 2504.1 | 2579.1 | 2654.2 |
| 47.5° | 2552.4 | 2487.7 | 2422.3 | 2373.3 | 2324.2 | 2288.6 | 2324.2 | 2373.3 | 2422.3 | 2487.7 | 2552.4 |
| 50° | 2502.6 | 2451.3 | 2400.0 | 2354.0 | 2307.1 | 2273.7 | 2307.1 | 2354.0 | 2400.0 | 2451.3 | 2502.6 |
| 52.5° | 2458.0 | 2420.8 | 2383.7 | 2343.6 | 2303.4 | 2273.7 | 2303.4 | 2343.6 | 2383.7 | 2420.8 | 2458.0 |
| 55° | 2388.9 | 2362.1 | 2334.6 | 2304.9 | 2275.2 | 2251.4 | 2275.2 | 2304.9 | 2334.6 | 2362.1 | 2388.9 |
| 57.5° | 2312.4 | 2284.1 | 2255.1 | 2232.8 | 2210.6 | 2199.4 | 2210.6 | 2232.8 | 2255.1 | 2284.1 | 2312.4 |
| 60° | 2208.3 | 2186.0 | 2163.7 | 2142.9 | 2121.4 | 2102.8 | 2121.4 | 2142.9 | 2163.7 | 2186.0 | 2208.3 |
| 62.5° | 2039.7 | 2029.3 | 2019.6 | 1995.8 | 1972.8 | 1946.8 | 1972.8 | 1995.8 | 2019.6 | 2029.3 | 2039.7 |
| 65° | *1841.3* | *1836.1* | *1831.6* | *1814.5* | *1798.2* | *1768.4* | *1798.2* | *1814.5* | *1831.6* | *1836.1* | *1841.3* |
| 67.5° | 1636.2 | 1626.5 | 1616.1 | 1598.3 | 1581.2 | 1575.3 | 1581.2 | 1598.3 | 1616.1 | 1626.5 | 1636.2 |
| 70° | 1448.9 | 1434.1 | 1419.2 | 1379.1 | 1339.0 | 1292.9 | 1339.0 | 1379.1 | 1419.2 | 1434.1 | 1448.9 |
| 72.5° | 1274.3 | 1251.3 | 1227.5 | 1180.7 | 1133.1 | 1084.8 | 1133.1 | 1180.7 | 1227.5 | 1251.3 | 1274.3 |
| 75° | 1088.6 | 1055.9 | 1023.9 | 974.1 | 925.1 | 891.7 | 925.1 | 974.1 | 1023.9 | 1055.9 | 1088.6 |
| 77.5° | 853.0 | 824.8 | 796.5 | 766.8 | 737.1 | 720.8 | 737.1 | 766.8 | 796.5 | 824.8 | 853.0 |
| 80° | 610.8 | 590.0 | 568.4 | 553.6 | 538.7 | 527.6 | 538.7 | 553.6 | 568.4 | 590.0 | 610.8 |
| 82.5° | 375.2 | 365.6 | 356.7 | 340.3 | 323.2 | 312.1 | 323.2 | 340.3 | 356.7 | 365.6 | 375.2 |
| 85° | 144.9 | 142.7 | 141.2 | 135.2 | 130.0 | 126.3 | 130.0 | 135.2 | 141.2 | 142.7 | 144.9 |
| 87.5° | 53.5 | 49.0 | 44.6 | 41.6 | 38.6 | 37.2 | 38.6 | 41.6 | 44.6 | 49.0 | 53.5 |
| 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: P1364206
CATALOG NUMBER: GSS-SB4D-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 4481.3 | 4496.9 | 4520.7 | 4543.7 | 4576.4 | 4608.4 | 4635.8 | 4662.6 | 4693.1 | 4724.3 | 4763.7 |
| 5° | 4223.5 | 4251.7 | 4286.6 | 4320.8 | 4364.6 | 4407.7 | 4456.8 | 4504.3 | 4562.3 | 4620.2 | 4690.1 |
| 7.5° | 4060.0 | 4092.7 | 4143.2 | 4194.5 | 4248.7 | 4302.2 | 4366.1 | 4430.0 | 4505.8 | 4580.9 | 4667.1 |
| 10° | 3984.2 | 4033.2 | 4089.7 | 4146.2 | 4216.8 | 4287.4 | 4355.0 | 4422.6 | 4499.9 | 4577.1 | 4667.8 |
| 12.5° | 4004.3 | 4064.4 | 4140.2 | 4216.8 | 4301.5 | 4385.4 | 4447.9 | 4510.3 | 4563.8 | 4618.0 | 4693.1 |
| 15° | 4145.4 | 4231.6 | 4337.9 | 4443.4 | 4521.4 | 4599.4 | 4621.0 | 4642.5 | 4647.0 | 4651.5 | 4700.5 |
| 17.5° | 4333.4 | 4462.0 | 4610.6 | 4759.2 | 4814.2 | 4868.4 | 4826.1 | 4783.7 | 4710.2 | 4636.6 | 4643.3 |
| 20° | 4484.3 | 4652.9 | 4847.6 | 5041.5 | 5046.8 | 5052.7 | 4938.3 | 4823.8 | 4680.4 | 4536.3 | 4494.7 |
| 22.5° | 4548.9 | 4757.0 | 4947.9 | 5138.1 | 5096.5 | 5054.2 | 4889.2 | 4724.3 | 4536.3 | 4348.3 | 4286.6 |
| 25° | 4477.6 | 4679.7 | 4836.5 | 4993.3 | 4914.5 | 4835.7 | 4658.1 | 4480.6 | 4306.7 | 4132.8 | 4065.2 |
| 27.5° | 4281.4 | 4444.9 | 4540.7 | 4636.6 | 4548.2 | 4459.7 | 4317.1 | 4174.4 | 4045.1 | 3915.8 | 3850.5 |
| 30° | 3976.8 | 4094.2 | 4157.3 | 4220.5 | 4149.9 | 4079.3 | 3982.7 | 3886.1 | 3792.5 | 3698.9 | 3648.3 |
| 32.5° | 3651.3 | 3728.6 | 3777.6 | 3826.7 | 3788.0 | 3748.7 | 3677.3 | 3605.2 | 3544.3 | 3483.4 | 3461.8 |
| 35° | 3382.3 | 3451.4 | 3492.3 | 3533.2 | 3503.4 | 3473.7 | 3415.0 | 3357.1 | 3316.9 | 3276.8 | 3294.7 |
| 37.5° | 3181.0 | 3239.7 | 3269.4 | 3299.1 | 3256.0 | 3213.7 | 3164.6 | 3114.8 | 3097.0 | 3077.7 | 3126.7 |
| 40° | 3013.0 | 3068.8 | 3074.7 | 3079.9 | 3027.2 | 2973.7 | 2926.8 | 2879.3 | 2881.5 | 2883.0 | 2954.3 |
| 42.5° | 2844.4 | 2890.4 | 2879.3 | 2868.1 | 2811.7 | 2755.2 | 2708.4 | 2661.6 | 2671.2 | 2680.9 | 2771.6 |
| 45° | 2696.5 | 2738.1 | 2712.1 | 2686.1 | 2623.7 | 2562.0 | 2520.4 | 2480.3 | 2495.1 | 2510.0 | 2602.1 |
| 47.5° | 2579.8 | 2608.1 | 2579.8 | 2552.4 | 2483.3 | 2414.9 | 2371.8 | 2329.4 | 2339.1 | 2348.0 | 2428.3 |
| 50° | 2507.8 | 2513.0 | 2462.4 | 2411.2 | 2356.9 | 2303.4 | 2257.4 | 2210.6 | 2199.4 | 2188.3 | 2254.4 |
| 52.5° | 2449.1 | 2440.9 | 2386.7 | 2333.2 | 2277.4 | 2221.7 | 2178.6 | 2136.2 | 2102.1 | 2067.1 | 2116.9 |
| 55° | 2377.7 | 2366.6 | 2316.8 | 2266.3 | 2214.3 | 2162.3 | 2111.0 | 2059.7 | 2010.7 | 1961.6 | 2016.6 |
| 57.5° | 2303.4 | 2294.5 | 2235.8 | 2177.1 | 2125.1 | 2073.1 | 2017.4 | 1961.6 | 1912.6 | 1863.6 | 1940.1 |
| 60° | 2196.4 | 2184.5 | 2125.1 | 2065.7 | 2012.2 | 1957.9 | 1901.4 | 1844.2 | 1812.3 | 1779.6 | 1876.2 |
| 62.5° | 2021.8 | 2004.7 | 1947.5 | 1891.0 | 1846.5 | 1801.9 | 1738.0 | 1673.3 | 1670.4 | 1665.9 | 1792.2 |
| 65° | *1824.2* | *1807.1* | *1758.0* | *1709.0* | *1673.3* | *1638.4* | *1576.7* | *1515.8* | *1530.7* | *1545.5* | *1680.8* |
| 67.5° | 1616.9 | 1597.5 | 1564.1 | 1530.7 | 1501.7 | 1472.7 | 1416.2 | 1359.8 | 1390.2 | 1420.7 | 1541.1 |
| 70° | 1438.5 | 1428.1 | 1401.4 | 1374.6 | 1349.4 | 1324.1 | 1278.0 | 1232.0 | 1251.3 | 1270.6 | 1341.9 |
| 72.5° | 1267.6 | 1261.7 | 1236.4 | 1211.2 | 1189.6 | 1168.1 | 1133.1 | 1098.2 | 1111.6 | 1125.7 | 1141.3 |
| 75° | 1077.4 | 1066.3 | 1040.3 | 1014.3 | 997.2 | 980.8 | 954.1 | 927.3 | 937.0 | 947.4 | 955.6 |
| 77.5° | 848.6 | 845.6 | 824.0 | 802.5 | 786.9 | 771.3 | 746.8 | 722.2 | 734.1 | 744.5 | 764.6 |
| 80° | 610.8 | 610.8 | 593.7 | 575.9 | 570.7 | 564.7 | 546.9 | 529.0 | 538.0 | 546.1 | 570.7 |
| 82.5° | 368.5 | 362.6 | 344.8 | 326.9 | 334.4 | 341.8 | 345.5 | 349.2 | 355.2 | 360.4 | 360.4 |
| 85° | 140.4 | 135.2 | 136.7 | 137.5 | 140.4 | 142.7 | 154.6 | 165.0 | 173.9 | 182.0 | 181.3 |
| 87.5° | 59.4 | 65.4 | 67.6 | 70.6 | 73.6 | 75.8 | 72.8 | 68.4 | 65.4 | 60.9 | 56.5 |
| 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: P1364206
CATALOG NUMBER: GSS-SB4D-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 4803.8 | 4840.9 | 4883.3 | 4925.6 | 4967.2 | 5011.1 | 5054.2 | 5097.3 | 5140.4 | 5187.2 | 5234.7 |
| 5° | 4761.4 | 4833.5 | 4917.5 | 4997.7 | 5078.7 | 5164.2 | 5249.6 | 5336.5 | 5424.2 | 5507.4 | 5591.4 |
| 7.5° | 4754.0 | 4840.9 | 4952.4 | 5059.4 | 5165.6 | 5284.5 | 5403.4 | 5536.4 | 5669.4 | 5810.6 | 5951.8 |
| 10° | 4759.2 | 4852.1 | 4971.0 | 5093.6 | 5216.2 | 5363.3 | 5509.7 | 5675.4 | 5840.3 | 6009.7 | 6178.4 |
| 12.5° | 4768.9 | 4859.5 | 4989.5 | 5124.0 | 5259.3 | 5423.5 | 5587.7 | 5772.7 | 5957.7 | 6125.7 | 6293.6 |
| 15° | 4749.5 | 4829.8 | 4974.7 | 5127.0 | 5279.3 | 5456.9 | 5633.8 | 5821.7 | 6009.7 | 6179.1 | 6349.3 |
| 17.5° | 4650.0 | 4718.3 | 4887.7 | 5064.6 | 5242.2 | 5443.5 | 5645.6 | 5846.3 | 6046.9 | 6205.2 | 6364.2 |
| 20° | 4452.3 | 4495.4 | 4719.8 | 4953.1 | 5186.4 | 5423.5 | 5660.5 | 5876.0 | 6091.5 | 6252.0 | 6412.5 |
| 22.5° | 4224.2 | 4265.1 | 4532.6 | 4825.3 | 5118.1 | 5407.9 | 5697.7 | 5933.9 | 6171.0 | 6317.4 | 6464.5 |
| 25° | 3997.6 | 4001.3 | 4308.2 | 4673.0 | 5037.8 | 5406.4 | 5774.9 | 6033.5 | 6292.1 | 6419.2 | 6546.2 |
| 27.5° | 3785.8 | 3767.2 | 4080.8 | 4517.0 | 4952.4 | 5420.5 | 5888.6 | 6179.1 | 6470.4 | 6567.8 | 6665.1 |
| 30° | 3597.8 | 3577.8 | 3882.4 | 4381.0 | 4880.3 | 5451.0 | 6022.4 | 6351.5 | 6680.0 | 6755.8 | 6832.3 |
| 32.5° | 3440.3 | 3440.3 | 3721.2 | 4262.1 | 4803.8 | 5485.1 | 6167.3 | 6554.4 | 6941.5 | 6989.1 | 7036.6 |
| 35° | 3312.5 | 3358.6 | 3575.5 | 4126.9 | 4677.5 | 5477.0 | 6277.2 | 6769.9 | 7263.2 | 7322.7 | 7382.1 |
| 37.5° | 3174.3 | 3262.0 | 3432.9 | 3976.8 | 4521.4 | 5453.9 | 6386.5 | 7032.9 | 7679.4 | 7749.9 | 7820.5 |
| 40° | 3025.7 | 3135.6 | 3270.9 | 3797.7 | 4324.5 | 5401.9 | 6479.3 | 7333.8 | 8188.3 | 8328.0 | 8467.0 |
| 42.5° | 2862.2 | 2998.2 | 3092.5 | 3584.4 | 4075.6 | 5312.0 | 6547.7 | 7666.7 | 8784.3 | 9079.2 | 9373.5 |
| 45° | 2695.8 | 2831.0 | 2916.4 | 3367.5 | 3819.2 | 5250.3 | 6681.4 | 8118.5 | 9555.5 | 10027.4 | 10499.2 |
| 47.5° | 2507.8 | 2634.1 | 2732.9 | 3152.0 | 3572.6 | 5178.3 | 6784.0 | 8582.9 | 10381.8 | 10979.2 | 11576.6 |
| 50° | 2319.8 | 2444.6 | 2579.8 | 2960.3 | 3340.0 | 5055.7 | 6770.6 | 8987.9 | 11205.1 | 12015.0 | 12824.9 |
| 52.5° | 2166.0 | 2299.7 | 2472.8 | 2787.9 | 3104.4 | 4804.5 | 6505.3 | 9179.6 | 11853.0 | 13140.0 | 14426.2 |
| 55° | 2071.6 | 2229.1 | 2401.5 | 2643.7 | 2884.5 | 4471.6 | 6057.3 | 9129.0 | 12200.8 | 14270.1 | 16339.5 |
| 57.5° | 2017.4 | 2210.6 | 2355.4 | 2521.9 | 2688.3 | 4123.1 | 5558.0 | 8853.4 | 12148.8 | 15219.0 | 18290.0 |
| 60° | 1972.8 | 2166.0 | 2279.7 | 2396.3 | 2513.0 | 3682.5 | 4852.1 | 8192.8 | 11533.5 | 15644.0 | 19753.8 |
| 62.5° | 1918.5 | 2102.8 | 2151.1 | 2215.8 | 2281.1 | 3123.8 | 3966.4 | 7110.2 | 10254.0 | 14701.1 | 19148.2 |
| 65° | *1816.7* | *1969.1* | *1982.4* | *1995.8* | *2009.9* | *2455.0* | *2899.4* | *5577.3* | *8255.2* | *12680.0* | *17104.9* |
| 67.5° | 1660.7 | 1764.7 | 1744.7 | 1705.3 | 1665.9 | 1876.9 | 2088.0 | 4340.1 | 6592.3 | 10890.0 | 15187.8 |
| 70° | 1413.3 | 1463.8 | 1469.7 | 1411.0 | 1352.3 | 1426.6 | 1500.9 | 3325.9 | 5150.8 | 9251.6 | 13352.5 |
| 72.5° | 1157.7 | 1125.7 | 1185.2 | 1140.6 | 1096.0 | 1096.7 | 1098.2 | 2500.3 | 3902.5 | 7682.3 | 11461.4 |
| 75° | 964.5 | 943.7 | 919.9 | 866.4 | 813.6 | 818.1 | 823.3 | 1853.2 | 2883.0 | 6133.8 | 9384.6 |
| 77.5° | 783.9 | 780.2 | 711.8 | 653.9 | 595.9 | 592.9 | 588.5 | 1197.8 | 1807.1 | 4024.3 | 6241.6 |
| 80° | 594.4 | 598.1 | 501.6 | 441.4 | 380.4 | 377.5 | 373.0 | 662.1 | 951.1 | 2307.1 | 3663.2 |
| 82.5° | 360.4 | 345.5 | 291.3 | 261.6 | 231.8 | 231.1 | 230.3 | 355.9 | 481.5 | 1156.2 | 1831.6 |
| 85° | 179.8 | 170.9 | 141.2 | 121.9 | 102.5 | 97.3 | 92.9 | 112.9 | 133.7 | 274.9 | 416.1 |
| 87.5° | 52.0 | 44.6 | 40.9 | 37.2 | 33.4 | 31.2 | 29.7 | 30.5 | 31.2 | 32.7 | 33.4 |
| 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: P1364206
CATALOG NUMBER: GSS-SB4D-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | *4844.6* | 4844.6 | 4844.6 |
| 2.5° | 5253.3 | 5271.9 | 5292.0 | 5312.8 | 5324.6 | 5336.5 | 5349.2 | 5361.1 | *5372.2* | 5361.1 | 5349.2 |
| 5° | 5675.4 | 5758.6 | 5815.1 | 5871.5 | 5914.6 | 5957.7 | 5982.2 | 6007.5 | *6011.2* | 6007.5 | 5982.2 |
| 7.5° | 6051.3 | 6150.9 | 6237.1 | 6323.3 | 6378.3 | 6433.3 | 6465.2 | 6497.9 | *6509.1* | 6497.9 | 6465.2 |
| 10° | 6295.1 | 6412.5 | 6495.7 | 6579.6 | 6630.9 | 6681.4 | 6706.7 | 6732.0 | *6739.4* | 6732.0 | 6706.7 |
| 12.5° | 6405.8 | 6518.0 | 6582.6 | 6646.5 | 6679.2 | 6711.2 | 6723.1 | 6733.5 | *6724.5* | 6733.5 | 6723.1 |
| 15° | 6415.4 | 6480.8 | 6508.3 | 6535.1 | 6519.5 | 6503.1 | 6480.1 | 6457.0 | *6442.2* | 6457.0 | 6480.1 |
| 17.5° | 6387.2 | 6411.0 | 6361.2 | 6312.2 | 6223.0 | 6133.8 | 6066.9 | 6000.1 | *5951.8* | 6000.1 | 6066.9 |
| 20° | 6375.3 | 6338.2 | 6205.9 | 6074.4 | 5907.2 | 5740.0 | 5627.8 | 5514.9 | *5446.5* | 5514.9 | 5627.8 |
| 22.5° | 6359.7 | 6254.9 | 6032.8 | 5810.6 | 5581.7 | 5353.6 | 5224.3 | 5095.8 | *5023.0* | 5095.8 | 5224.3 |
| 25° | 6366.4 | 6185.8 | 5885.6 | 5586.2 | 5317.2 | 5049.0 | 4908.5 | 4768.9 | *4688.6* | 4768.9 | 4908.5 |
| 27.5° | 6390.2 | 6115.2 | 5743.7 | 5372.2 | 5080.9 | 4788.9 | 4655.2 | 4521.4 | *4450.8* | 4521.4 | 4655.2 |
| 30° | 6467.5 | 6101.9 | 5657.5 | 5212.4 | 4907.8 | 4603.2 | 4472.4 | 4340.9 | *4265.1* | 4340.9 | 4472.4 |
| 32.5° | 6575.9 | 6115.2 | 5617.4 | 5119.6 | 4809.0 | 4499.1 | 4373.6 | 4248.7 | *4183.3* | 4248.7 | 4373.6 |
| 35° | 6798.8 | 6215.6 | 5663.5 | 5112.1 | 4823.8 | 4536.3 | 4444.1 | 4352.7 | *4317.1* | 4352.7 | 4444.1 |
| 37.5° | 7139.2 | 6457.0 | 5888.6 | 5320.2 | 5124.0 | 4927.9 | 4927.9 | 4927.9 | *4956.1* | 4927.9 | 4927.9 |
| 40° | 7701.6 | 6936.3 | 6398.3 | 5861.1 | 5849.2 | 5838.8 | 5963.7 | 6089.2 | *6145.0* | 6089.2 | 5963.7 |
| 42.5° | 8564.3 | 7755.9 | 7322.0 | 6888.0 | 7148.1 | 7408.1 | 7769.3 | 8130.4 | *8366.7* | 8130.4 | 7769.3 |
| 45° | 9711.6 | 8924.0 | 8620.8 | 8318.4 | 8897.2 | 9475.3 | 10113.6 | 10751.8 | *11205.1* | 10751.8 | 10113.6 |
| 47.5° | 10913.8 | 10250.3 | 10077.2 | 9904.8 | 10867.0 | 11829.3 | 12764.7 | 13700.2 | *14251.6* | 13700.2 | 12764.7 |
| 50° | 12229.0 | 11632.3 | 11598.9 | 11565.5 | 12847.2 | 14129.0 | 15336.4 | 16543.9 | *17216.3* | 16543.9 | 15336.4 |
| 52.5° | 13771.6 | 13116.2 | 13143.0 | 13168.2 | 14690.7 | 16213.2 | 17673.3 | 19133.4 | *19891.3* | 19133.4 | 17673.3 |
| 55° | 15518.5 | 14697.4 | 14692.9 | 14688.5 | 16437.6 | 18188.2 | 19981.9 | 21777.1 | *22789.1* | 21777.1 | 19981.9 |
| 57.5° | 17521.0 | 16751.9 | 16569.1 | 16385.6 | 18215.0 | 20043.6 | 22024.6 | 24006.2 | *25070.3* | 24006.2 | 22024.6 |
| 60° | 19330.3 | 18906.7 | 18614.0 | 18322.0 | 20200.4 | 22079.5 | 24125.9 | 26171.5 | *27232.5* | 26171.5 | 24125.9 |
| 62.5° | 19905.4 | 20662.6 | 20641.0 | 20619.5 | 22647.2 | 24675.0 | 26803.1 | 28932.6 | *29885.2* | 28932.6 | 26803.1 |
| 65° | *18312.3* | *19519.8* | *20350.5* | *21180.5* | *23631.8* | *26082.3* | *28299.6* | *30516.8* | *31490.2* | *30516.8* | *28299.6* |
| 67.5° | 16251.8 | 17316.6 | 17996.5 | 18676.4 | 21438.3 | 24200.9 | 26716.9 | 29232.8 | *30234.4* | 29232.8 | 26716.9 |
| 70° | 14531.0 | 15709.4 | 16195.4 | 16681.3 | 19027.9 | 21373.6 | 23364.3 | 25354.1 | *25746.5* | 25354.1 | 23364.3 |
| 72.5° | 12862.8 | 14264.9 | 14470.8 | 14676.6 | 16384.1 | 18091.6 | 19151.9 | 20212.3 | *19356.3* | 20212.3 | 19151.9 |
| 75° | 10965.8 | 12546.3 | 12683.8 | 12821.2 | 13353.2 | 13886.0 | 14155.7 | 14426.2 | *13939.5* | 14426.2 | 14155.7 |
| 77.5° | 7610.3 | 8979.7 | 9288.0 | 9596.4 | 9950.8 | 10306.0 | 10287.4 | 10268.9 | *9585.3* | 10268.9 | 10287.4 |
| 80° | 4733.9 | 5804.7 | 5844.8 | 5884.9 | 6150.9 | 6416.2 | 6687.4 | 6958.6 | *6523.9* | 6958.6 | 6687.4 |
| 82.5° | 2419.3 | 3007.8 | 3098.5 | 3189.1 | 3351.9 | 3514.6 | 3590.4 | 3666.9 | *3299.1* | 3666.9 | 3590.4 |
| 85° | 569.2 | 722.2 | 870.1 | 1018.0 | 1188.9 | 1359.8 | 1340.5 | 1321.1 | *1114.6* | 1321.1 | 1340.5 |
| 87.5° | 34.2 | 35.7 | 36.4 | 37.2 | 37.9 | 38.6 | 40.9 | 43.1 | *44.6* | 43.1 | 40.9 |
| 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: P1364206
CATALOG NUMBER: GSS-SB4D-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 | 4844.6 |
| 2.5° | 5336.5 | 5324.6 | 5312.8 | 5292.0 | 5271.9 | 5253.3 | 5234.7 |
| 5° | 5957.7 | 5914.6 | 5871.5 | 5815.1 | 5758.6 | 5675.4 | 5591.4 |
| 7.5° | 6433.3 | 6378.3 | 6323.3 | 6237.1 | 6150.9 | 6051.3 | 5951.8 |
| 10° | 6681.4 | 6630.9 | 6579.6 | 6495.7 | 6412.5 | 6295.1 | 6178.4 |
| 12.5° | 6711.2 | 6679.2 | 6646.5 | 6582.6 | 6518.0 | 6405.8 | 6293.6 |
| 15° | 6503.1 | 6519.5 | 6535.1 | 6508.3 | 6480.8 | 6415.4 | 6349.3 |
| 17.5° | 6133.8 | 6223.0 | 6312.2 | 6361.2 | 6411.0 | 6387.2 | 6364.2 |
| 20° | 5740.0 | 5907.2 | 6074.4 | 6205.9 | 6338.2 | 6375.3 | 6412.5 |
| 22.5° | 5353.6 | 5581.7 | 5810.6 | 6032.8 | 6254.9 | 6359.7 | 6464.5 |
| 25° | 5049.0 | 5317.2 | 5586.2 | 5885.6 | 6185.8 | 6366.4 | 6546.2 |
| 27.5° | 4788.9 | 5080.9 | 5372.2 | 5743.7 | 6115.2 | 6390.2 | 6665.1 |
| 30° | 4603.2 | 4907.8 | 5212.4 | 5657.5 | 6101.9 | 6467.5 | 6832.3 |
| 32.5° | 4499.1 | 4809.0 | 5119.6 | 5617.4 | 6115.2 | 6575.9 | 7036.6 |
| 35° | 4536.3 | 4823.8 | 5112.1 | 5663.5 | 6215.6 | 6798.8 | 7382.1 |
| 37.5° | 4927.9 | 5124.0 | 5320.2 | 5888.6 | 6457.0 | 7139.2 | 7820.5 |
| 40° | 5838.8 | 5849.2 | 5861.1 | 6398.3 | 6936.3 | 7701.6 | 8467.0 |
| 42.5° | 7408.1 | 7148.1 | 6888.0 | 7322.0 | 7755.9 | 8564.3 | 9373.5 |
| 45° | 9475.3 | 8897.2 | 8318.4 | 8620.8 | 8924.0 | 9711.6 | 10499.2 |
| 47.5° | 11829.3 | 10867.0 | 9904.8 | 10077.2 | 10250.3 | 10913.8 | 11576.6 |
| 50° | 14129.0 | 12847.2 | 11565.5 | 11598.9 | 11632.3 | 12229.0 | 12824.9 |
| 52.5° | 16213.2 | 14690.7 | 13168.2 | 13143.0 | 13116.2 | 13771.6 | 14426.2 |
| 55° | 18188.2 | 16437.6 | 14688.5 | 14692.9 | 14697.4 | 15518.5 | 16339.5 |
| 57.5° | 20043.6 | 18215.0 | 16385.6 | 16569.1 | 16751.9 | 17521.0 | 18290.0 |
| 60° | 22079.5 | 20200.4 | 18322.0 | 18614.0 | 18906.7 | 19330.3 | 19753.8 |
| 62.5° | 24675.0 | 22647.2 | 20619.5 | 20641.0 | 20662.6 | 19905.4 | 19148.2 |
| 65° | *26082.3* | *23631.8* | *21180.5* | *20350.5* | *19519.8* | *18312.3* | *17104.9* |
| 67.5° | 24200.9 | 21438.3 | 18676.4 | 17996.5 | 17316.6 | 16251.8 | 15187.8 |
| 70° | 21373.6 | 19027.9 | 16681.3 | 16195.4 | 15709.4 | 14531.0 | 13352.5 |
| 72.5° | 18091.6 | 16384.1 | 14676.6 | 14470.8 | 14264.9 | 12862.8 | 11461.4 |
| 75° | 13886.0 | 13353.2 | 12821.2 | 12683.8 | 12546.3 | 10965.8 | 9384.6 |
| 77.5° | 10306.0 | 9950.8 | 9596.4 | 9288.0 | 8979.7 | 7610.3 | 6241.6 |
| 80° | 6416.2 | 6150.9 | 5884.9 | 5844.8 | 5804.7 | 4733.9 | 3663.2 |
| 82.5° | 3514.6 | 3351.9 | 3189.1 | 3098.5 | 3007.8 | 2419.3 | 1831.6 |
| 85° | 1359.8 | 1188.9 | 1018.0 | 870.1 | 722.2 | 569.2 | 416.1 |
| 87.5° | 38.6 | 37.9 | 37.2 | 36.4 | 35.7 | 34.2 | 33.4 |
| 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: SP1-2407-184-4

Test Date: 10/10/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

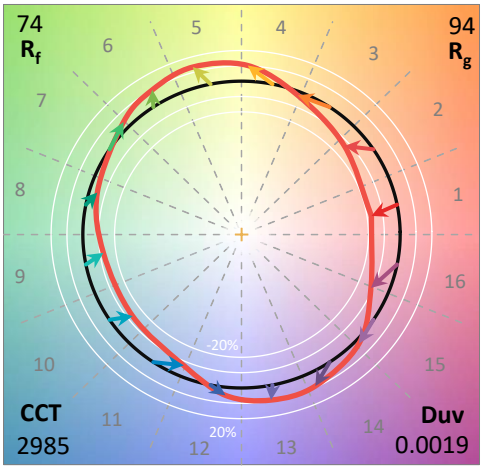
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-730-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS |

## Spectral Parameters

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

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



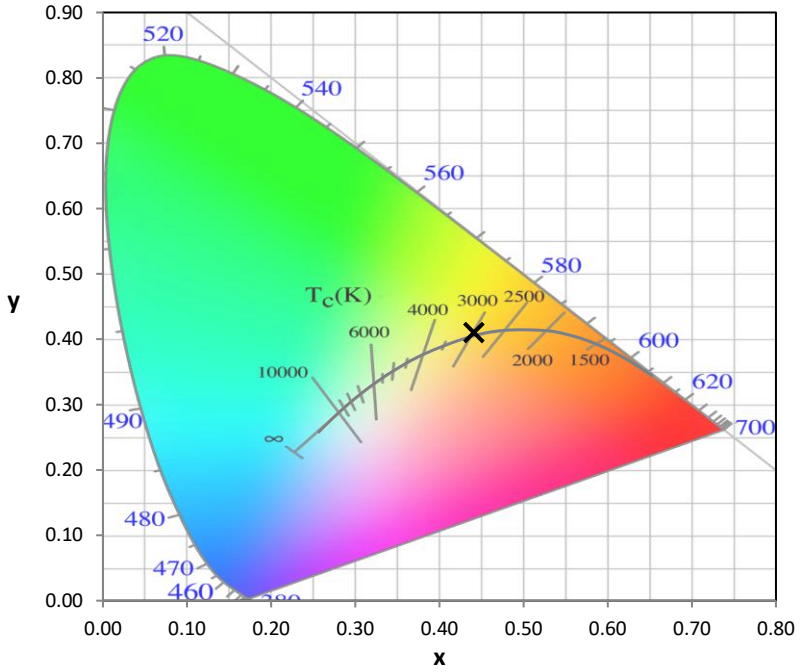

## Test Conditions

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

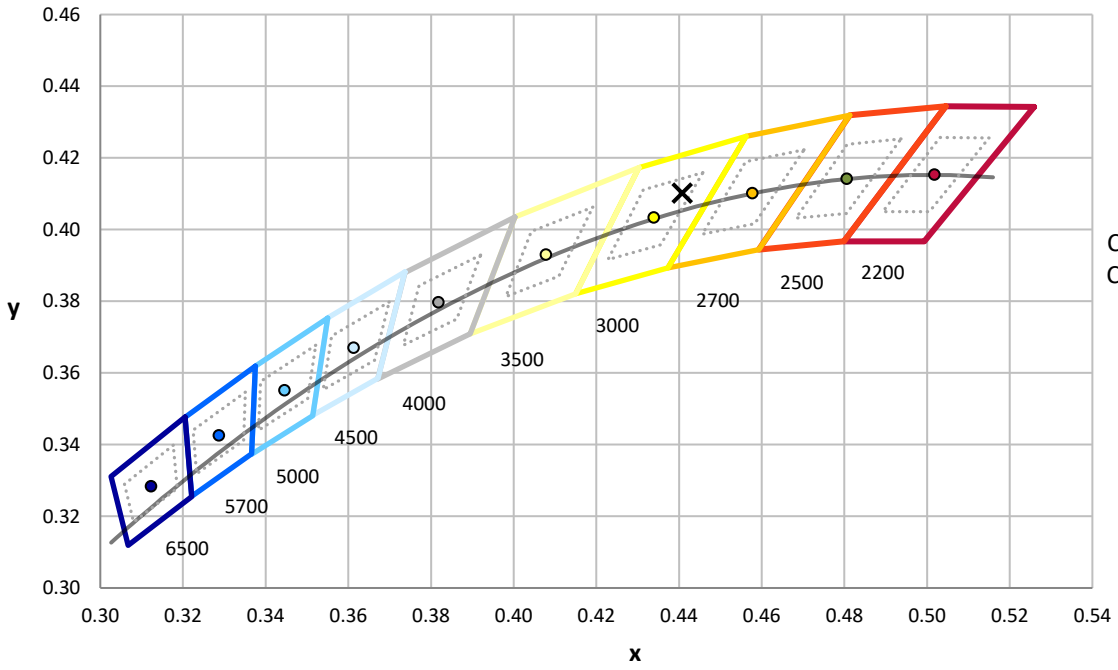
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

REPORT NUMBER: SP1-2407-184-4

## CIE 1931 Chromaticity Diagram




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

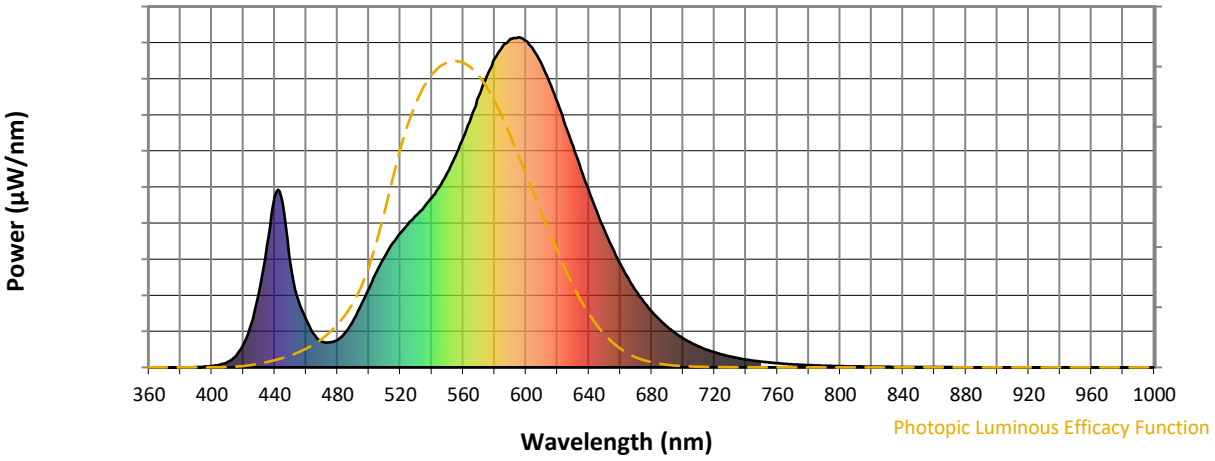



CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

## Photopic Flux vs. Wavelength

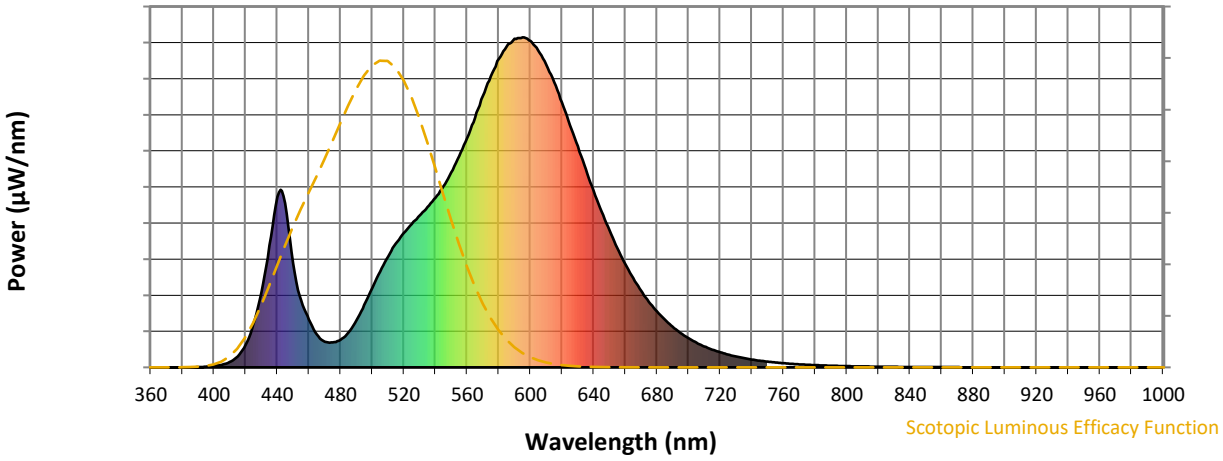



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-4

## Scotopic Flux vs. Wavelength

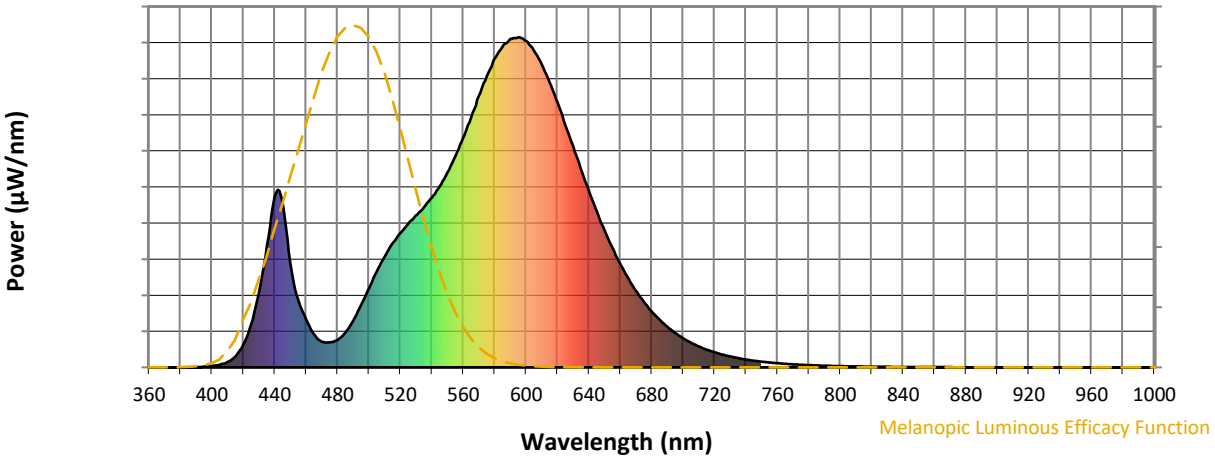



**Scotopic Lumens: NR** **S/P: 1.19**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-4

## Melanopic Flux vs. Wavelength




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

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 142 | NR | 620 | 803 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 189 | NR | 625 | 734 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 240 | NR | 630 | 670 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 600 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 335 | NR | 640 | 535 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 375 | NR | 645 | 473 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 408 | NR | 650 | 415 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 434 | NR | 655 | 362 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 461 | NR | 660 | 313 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 486 | NR | 665 | 271 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 16 | NR | 540 | 514 | NR | 670 | 231 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 33 | NR | 545 | 549 | NR | 675 | 198 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 69 | NR | 550 | 591 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 640 | NR | 685 | 144 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 227 | NR | 560 | 695 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 757 | NR | 695 | 104 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 517 | NR | 570 | 822 | NR | 700 | 88 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 498 | NR | 575 | 882 | NR | 705 | 75 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 315 | NR | 580 | 935 | NR | 710 | 63 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 204 | NR | 585 | 972 | NR | 715 | 54 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 145 | NR | 590 | 996 | NR | 720 | 46 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 100 | NR | 595 | 1000 | NR | 725 | 39 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 78 | NR | 600 | 989 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 76 | NR | 605 | 960 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 83 | NR | 610 | 918 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 105 | NR | 615 | 864 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

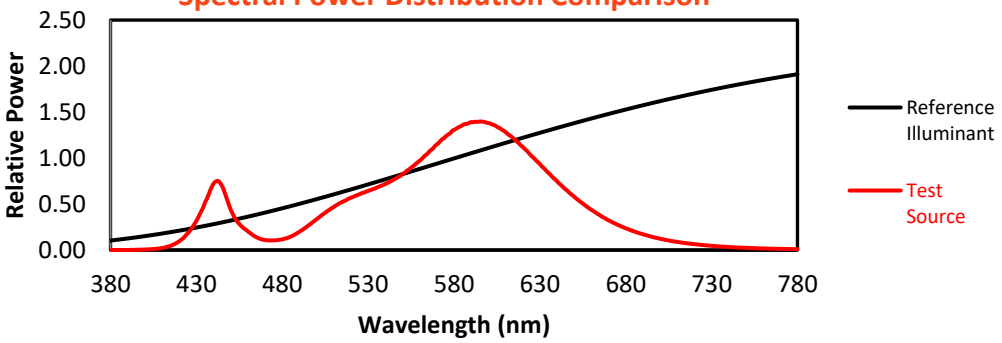
REPORT NUMBER: SP1-2407-184-4

# TM-30-18

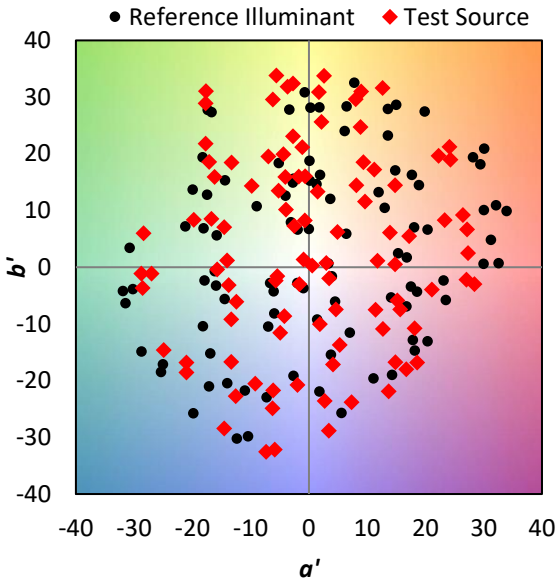
## Summary

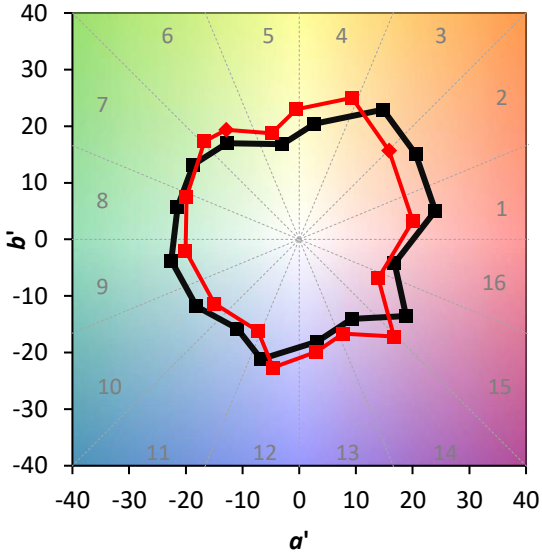
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$R_g$ = 94.4
CIE $R_a$ = 70.8
$R_9$ = -43.2

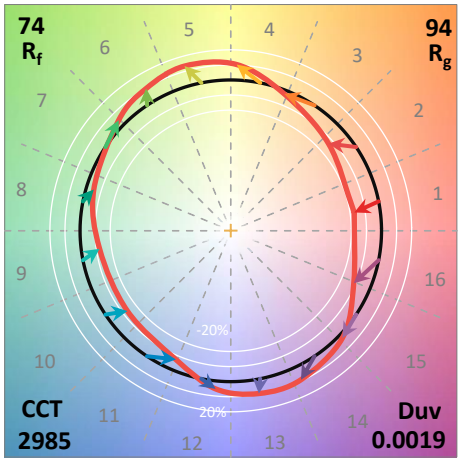
## Spectral Power Distribution Comparison

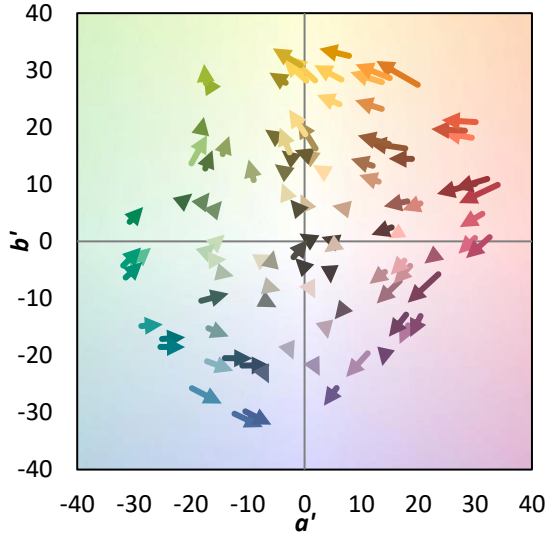



## Color Vector Graphics



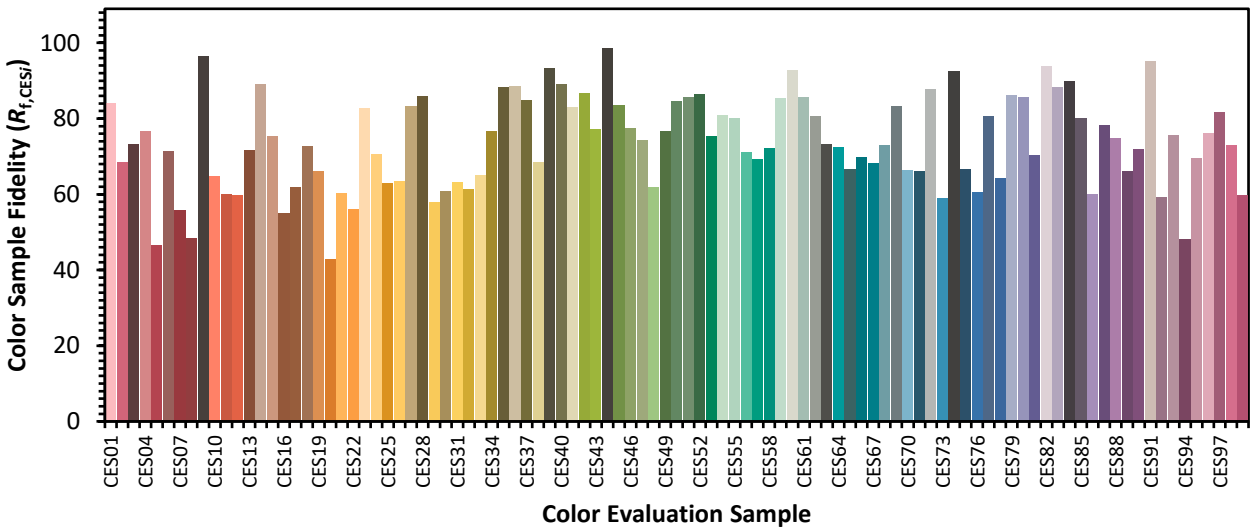



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**Individual Sample Fidelity Index ($R_{f,i}$)**

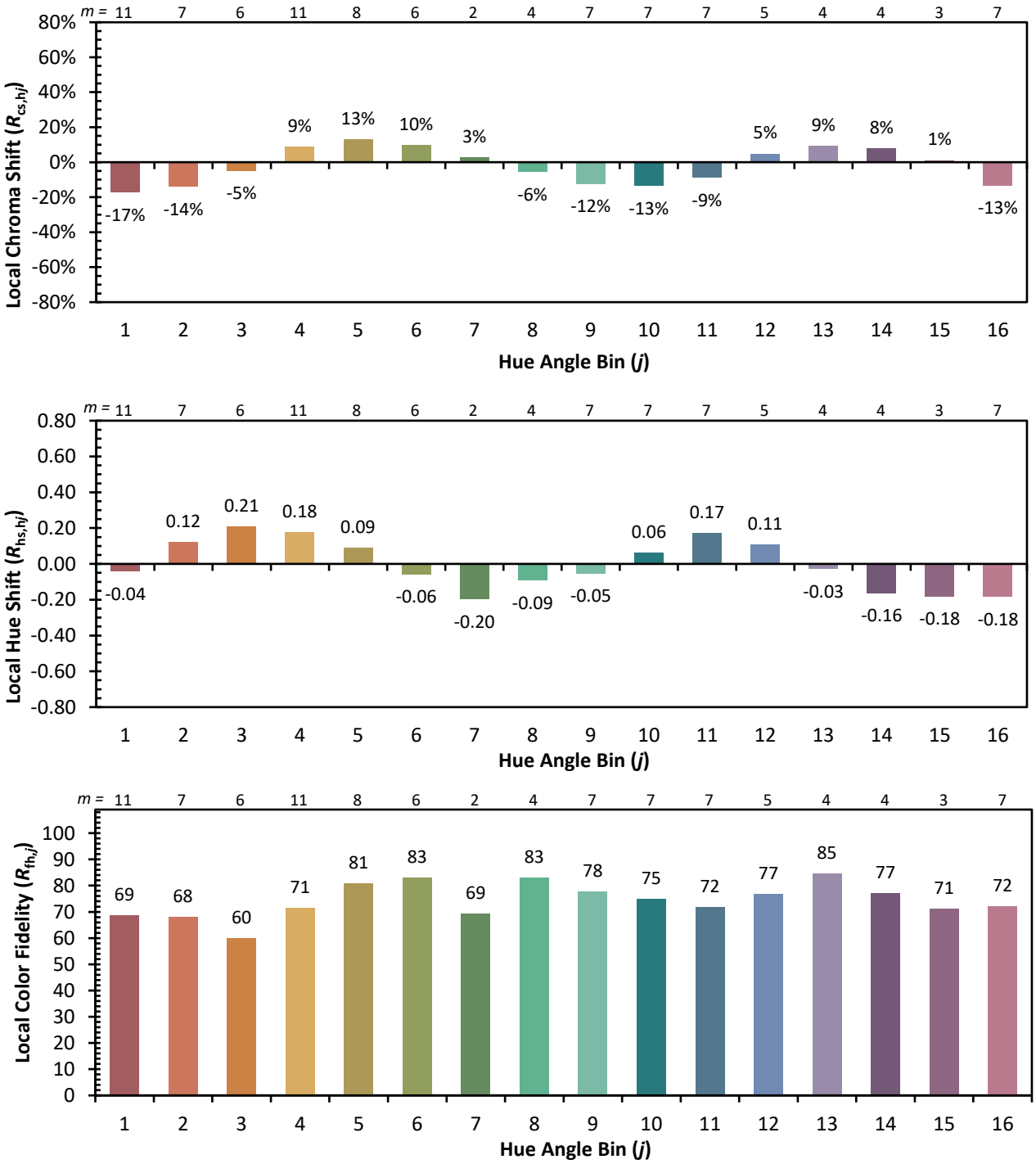
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06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



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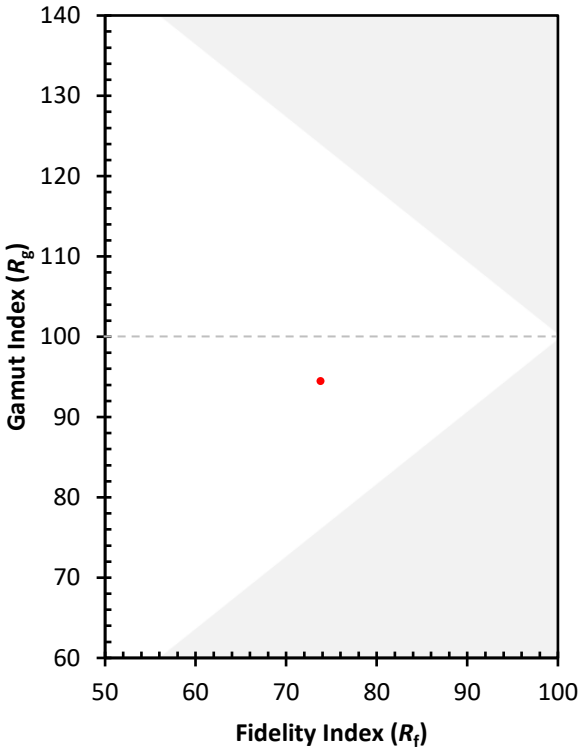
## Color Rendition by Hue-Angle Bin

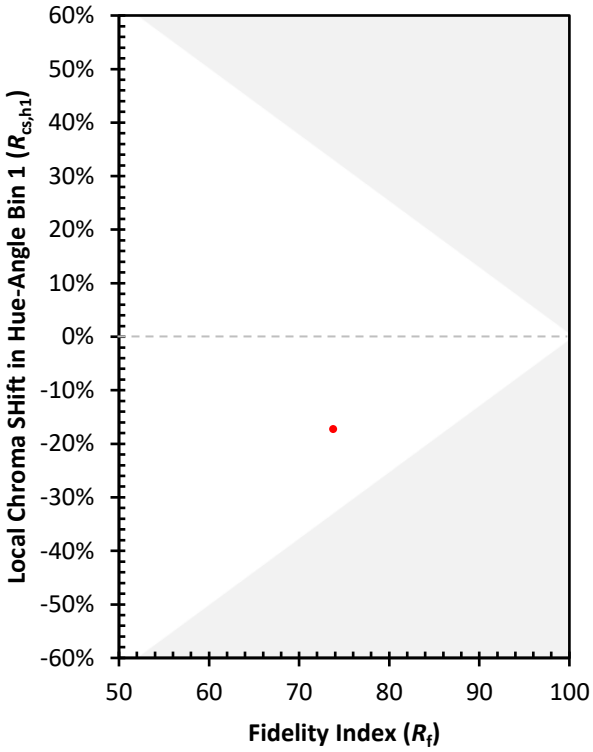


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## Measure Comparisons




(END OF REPORT)