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: P1364158

Luminaire Tested: **GSS-SB4D-722-U-SLR**

Issue Date: 02/18/2026

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1364158 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4D-722-U-SLR |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 70CRI 2200K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC |
| Light Source: | (104) 2200K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 25110.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 105.5 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

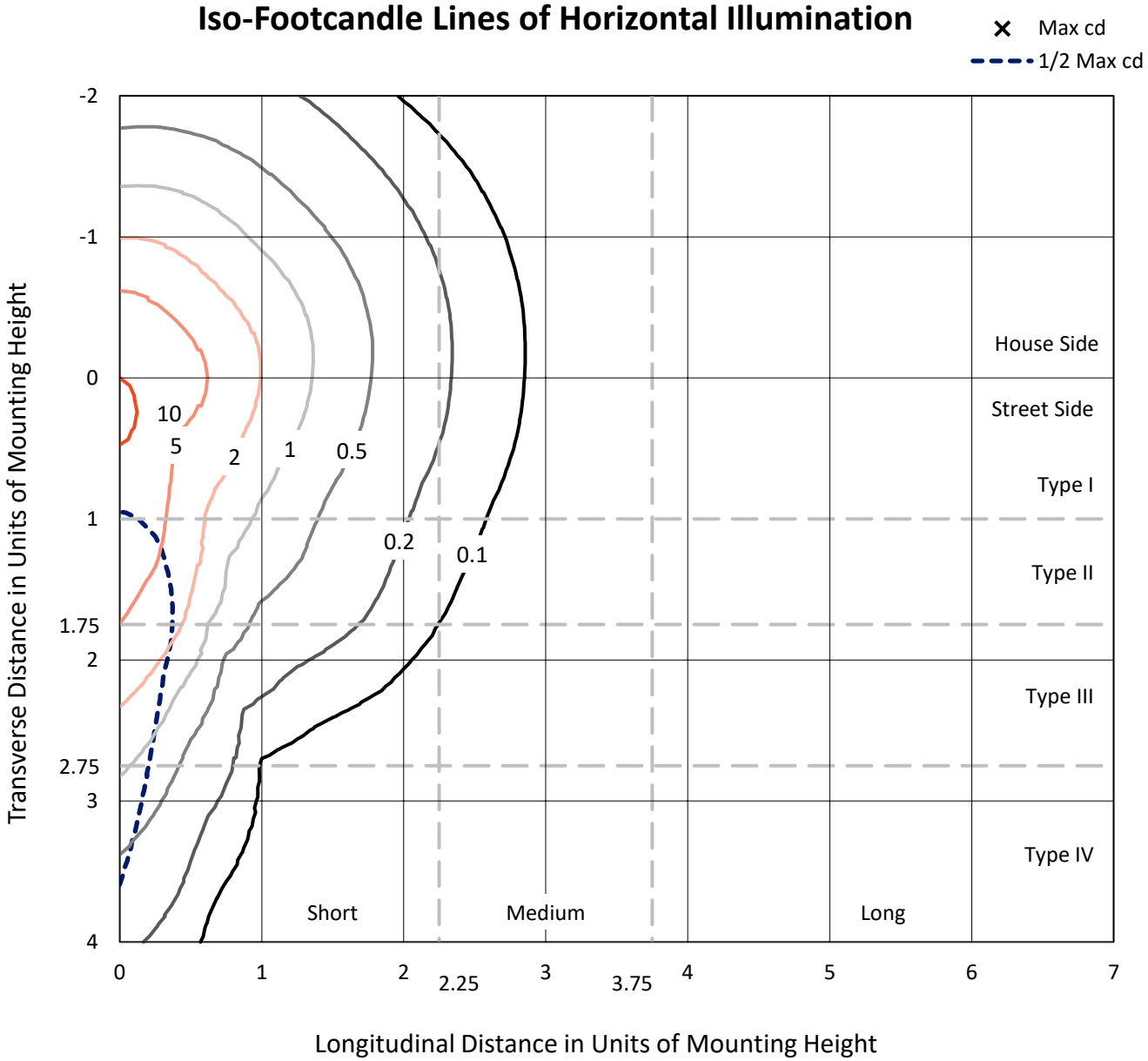
| | |
|---|---|
| Input Watts (W): | 238 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | -- |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature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

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## Iso-Footcandle Lines of Horizontal Illumination



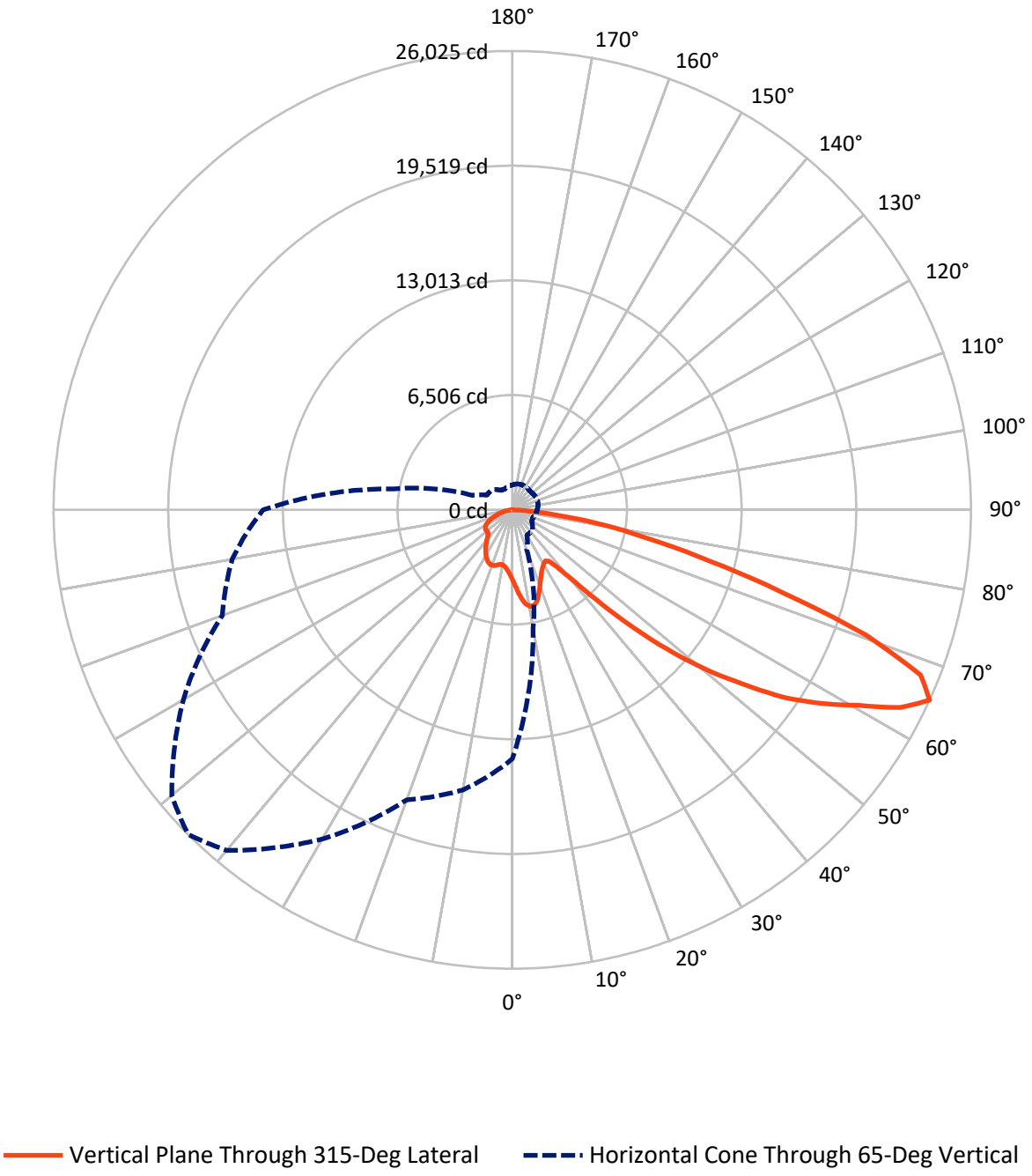

Based on 20 foot mounting height. Maximum calculated value = 11.9 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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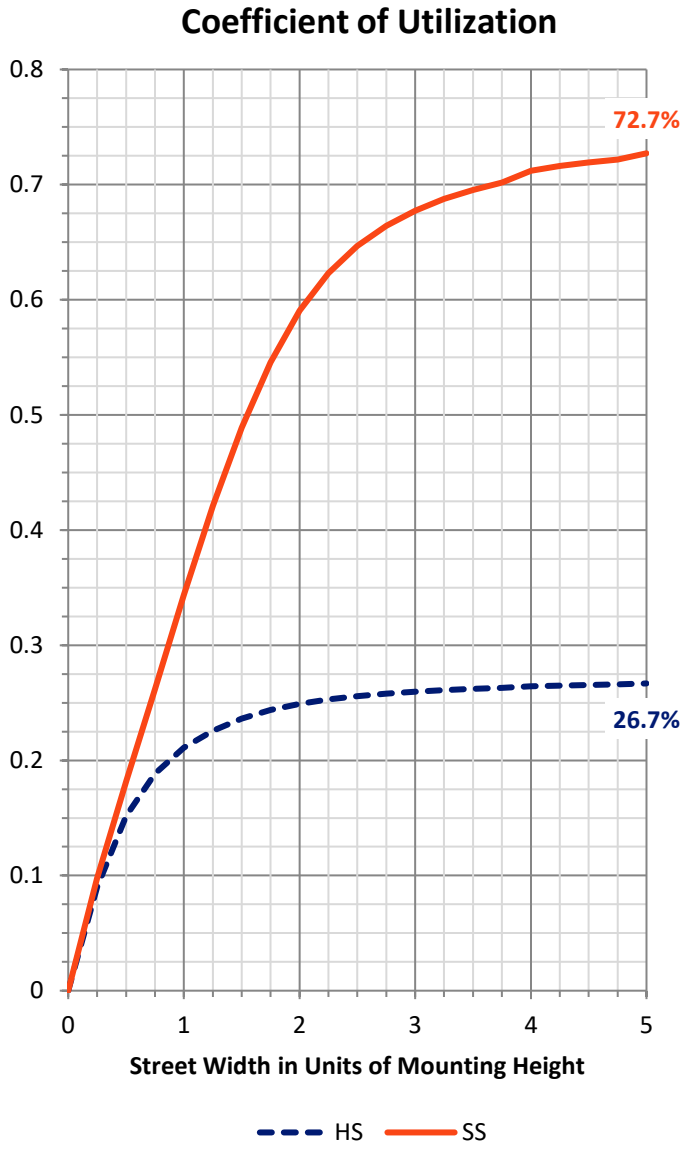
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 6755.2 | 0.0 | 6755.2 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 18355.1 | 0.0 | 18355.1 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 25110.3 | 0.0 | 25110.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 395.4 | 1.6 |
| 10°-20° | 1211.5 | 4.8 |
| 20°-30° | 1875.1 | 7.5 |
| 30°-40° | 2326.4 | 9.3 |
| 40°-50° | 3401.9 | 13.5 |
| 50°-60° | 5328.6 | 21.2 |
| 60°-70° | 6322.7 | 25.2 |
| 70°-80° | 3687.7 | 14.7 |
| 80°-90° | 561.0 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 25110.3 | 100.0 |
| 0°-180° | 25110.3 | 100.0 |



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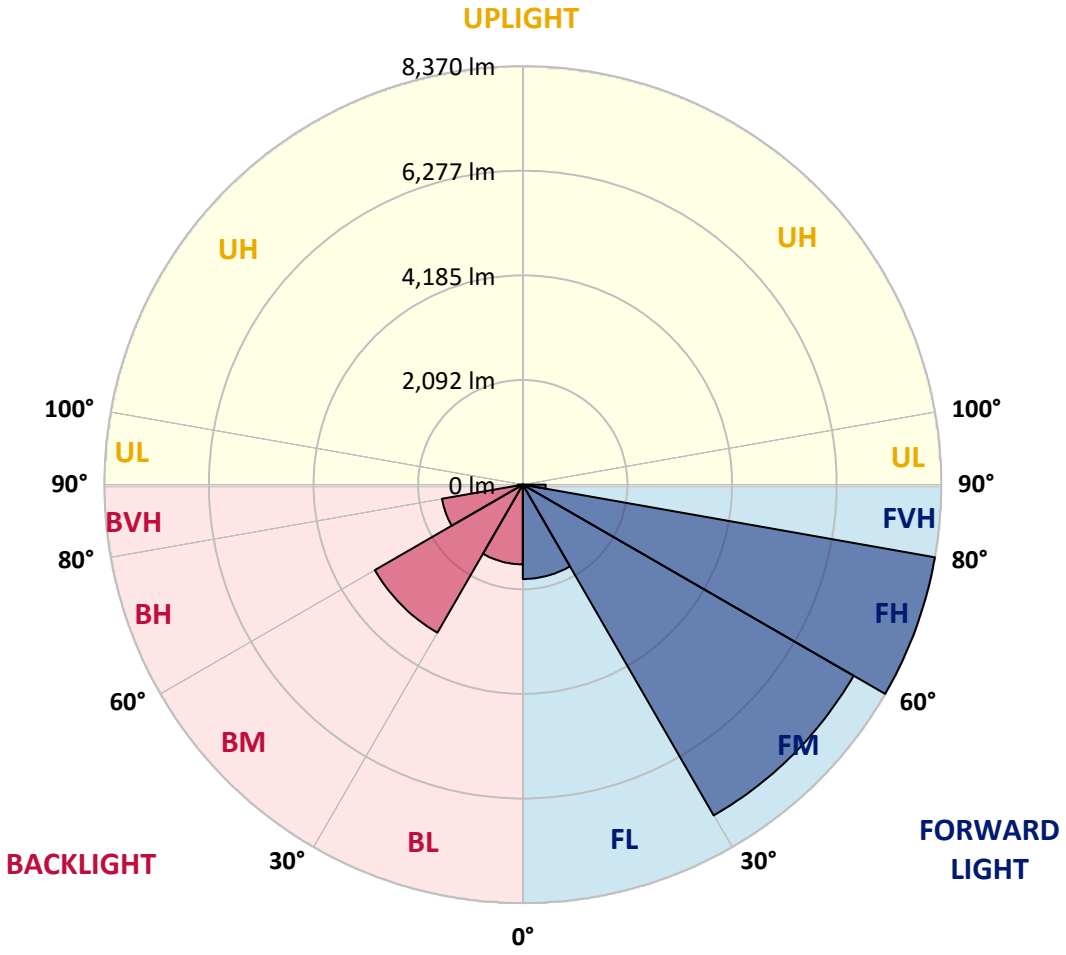
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1887.3 | 7.5 | | | |
| FM | (30°-60°) | 7639.1 | 30.4 | | | |
| FH | (60°-80°) | 8369.9 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 458.8 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1594.7 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 3417.8 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1640.6 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 102.2 | 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° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 4326.3 | 4287.0 | 4248.3 | 4212.7 | 4177.1 | 4141.4 | 4105.2 | 4070.8 | 4035.8 | 4000.8 | 3970.1 |
| 5° | 4621.0 | 4551.6 | 4482.9 | 4410.4 | 4338.6 | 4267.9 | 4197.3 | 4130.4 | 4064.1 | 3994.7 | 3935.1 |
| 7.5° | 4918.9 | 4802.2 | 4685.5 | 4575.6 | 4465.7 | 4367.4 | 4269.2 | 4181.4 | 4092.9 | 4000.8 | 3929.0 |
| 10° | 5106.2 | 4966.8 | 4826.8 | 4690.4 | 4553.5 | 4432.5 | 4310.9 | 4209.6 | 4108.3 | 4010.0 | 3933.3 |
| 12.5° | 5201.4 | 5062.6 | 4923.8 | 4770.9 | 4618.0 | 4482.3 | 4346.5 | 4234.8 | 4123.6 | 4016.2 | 3941.2 |
| 15° | 5247.4 | 5106.8 | 4966.8 | 4811.4 | 4656.0 | 4509.9 | 4363.1 | 4237.2 | 4111.3 | 3991.6 | 3925.3 |
| 17.5° | 5259.7 | 5128.3 | 4997.5 | 4831.7 | 4665.9 | 4498.8 | 4332.4 | 4185.7 | 4039.5 | 3899.5 | 3843.0 |
| 20° | 5299.6 | 5167.0 | 5034.3 | 4856.2 | 4678.2 | 4482.3 | 4286.4 | 4093.5 | 3900.7 | 3715.3 | 3679.6 |
| 22.5° | 5342.6 | 5221.0 | 5100.0 | 4904.1 | 4708.9 | 4469.4 | 4229.9 | 3987.9 | 3746.0 | 3524.9 | 3491.1 |
| 25° | 5410.2 | 5305.1 | 5200.1 | 4986.4 | 4772.7 | 4468.1 | 4163.5 | 3862.0 | 3560.5 | 3306.9 | 3303.8 |
| 27.5° | 5508.4 | 5428.0 | 5347.5 | 5106.8 | 4866.7 | 4479.8 | 4092.9 | 3733.1 | 3372.6 | 3113.4 | 3128.8 |
| 30° | 5646.6 | 5583.3 | 5520.7 | 5249.3 | 4977.2 | 4505.0 | 4033.4 | 3620.7 | 3208.6 | 2956.9 | 2973.4 |
| 32.5° | 5815.5 | 5776.1 | 5736.8 | 5416.9 | 5097.0 | 4533.2 | 3970.1 | 3522.4 | 3075.4 | 2843.2 | 2843.2 |
| 35° | 6101.0 | 6051.9 | 6002.7 | 5595.0 | 5187.8 | 4526.5 | 3865.7 | 3410.7 | 2955.0 | 2775.7 | 2737.6 |
| 37.5° | 6463.3 | 6405.0 | 6346.6 | 5812.4 | 5278.1 | 4507.4 | 3736.7 | 3286.6 | 2837.1 | 2695.9 | 2623.4 |
| 40° | 6997.6 | 6882.7 | 6767.3 | 6061.1 | 5354.9 | 4464.4 | 3574.0 | 3138.6 | 2703.2 | 2591.5 | 2500.6 |
| 42.5° | 7746.8 | 7503.6 | 7259.8 | 6336.2 | 5411.4 | 4390.1 | 3368.3 | 2962.4 | 2555.9 | 2477.9 | 2365.5 |
| 45° | 8677.1 | 8287.2 | 7897.2 | 6709.6 | 5521.9 | 4339.2 | 3156.4 | 2783.1 | 2410.3 | 2339.7 | 2227.9 |
| 47.5° | 9567.6 | 9073.8 | 8580.1 | 7093.4 | 5606.7 | 4279.6 | 2952.6 | 2605.0 | 2258.6 | 2177.0 | 2072.6 |
| 50° | 10599.2 | 9929.9 | 9260.5 | 7428.1 | 5595.6 | 4178.3 | 2760.3 | 2446.5 | 2132.1 | 2020.4 | 1917.2 |
| 52.5° | 11922.6 | 10859.6 | 9796.0 | 7586.5 | 5376.4 | 3970.7 | 2565.7 | 2304.1 | 2043.7 | 1900.6 | 1790.1 |
| 55° | 13503.9 | 11793.6 | 10083.4 | 7544.7 | 5006.1 | 3695.6 | 2383.9 | 2184.9 | 1984.7 | 1842.3 | 1712.1 |
| 57.5° | 15115.9 | 12577.8 | 10040.4 | 7316.9 | 4593.4 | 3407.6 | 2221.8 | 2084.2 | 1946.7 | 1826.9 | 1667.3 |
| 60° | 16325.6 | 12929.1 | 9531.9 | 6771.0 | 4010.0 | 3043.4 | 2076.9 | 1980.4 | 1884.0 | 1790.1 | 1630.4 |
| 62.5° | 15825.2 | 12149.8 | 8474.5 | 5876.2 | 3278.0 | 2581.6 | 1885.3 | 1831.2 | 1777.8 | 1737.9 | 1585.6 |
| 65° | *14136.4* | *10479.5* | *6822.6* | *4609.4* | *2396.2* | *2029.0* | *1661.1* | *1649.5* | *1638.4* | *1627.3* | *1501.5* |
| 67.5° | 12552.0 | 9000.1 | 5448.2 | 3586.9 | 1725.6 | 1551.2 | 1376.8 | 1409.3 | 1441.9 | 1458.5 | 1372.5 |
| 70° | 11035.2 | 7646.1 | 4256.9 | 2748.7 | 1240.5 | 1179.1 | 1117.6 | 1166.2 | 1214.7 | 1209.8 | 1168.0 |
| 72.5° | 9472.4 | 6349.1 | 3225.2 | 2066.4 | 907.6 | 906.4 | 905.8 | 942.6 | 979.5 | 930.3 | 956.8 |
| 75° | 7756.0 | 5069.3 | 2382.7 | 1531.5 | 680.4 | 676.1 | 672.4 | 716.0 | 760.2 | 779.9 | 797.1 |
| 77.5° | 5158.4 | 3325.9 | 1493.5 | 989.9 | 486.4 | 490.0 | 492.5 | 540.4 | 588.3 | 644.8 | 647.9 |
| 80° | 3027.5 | 1906.8 | 786.0 | 547.2 | 308.3 | 312.0 | 314.4 | 364.8 | 414.5 | 494.3 | 491.3 |
| 82.5° | 1513.7 | 955.5 | 397.9 | 294.2 | 190.4 | 191.0 | 191.6 | 216.2 | 240.7 | 285.6 | 297.8 |
| 85° | 343.9 | 227.2 | 110.5 | 93.3 | 76.8 | 80.4 | 84.7 | 100.7 | 116.7 | 141.2 | 148.6 |
| 87.5° | 27.6 | 27.0 | 25.8 | 25.2 | 24.6 | 25.8 | 27.6 | 30.7 | 33.8 | 36.8 | 43.0 |
| 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° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 3936.9 | 3904.4 | 3878.6 | 3853.4 | 3831.3 | 3808.6 | 3782.2 | 3755.2 | 3736.1 | 3716.5 | 3703.6 |
| 5° | 3876.1 | 3818.4 | 3770.5 | 3722.6 | 3683.3 | 3642.8 | 3607.2 | 3570.9 | 3542.7 | 3513.8 | 3490.5 |
| 7.5° | 3857.1 | 3785.9 | 3723.9 | 3661.2 | 3608.4 | 3555.6 | 3511.4 | 3466.5 | 3424.2 | 3382.4 | 3355.4 |
| 10° | 3857.7 | 3782.8 | 3718.9 | 3655.1 | 3599.2 | 3543.3 | 3485.0 | 3426.6 | 3380.0 | 3333.3 | 3292.8 |
| 12.5° | 3878.6 | 3816.6 | 3771.8 | 3727.5 | 3676.0 | 3624.4 | 3555.0 | 3485.0 | 3421.7 | 3359.1 | 3309.3 |
| 15° | 3884.7 | 3844.2 | 3840.5 | 3836.8 | 3819.0 | 3801.2 | 3736.7 | 3672.3 | 3585.1 | 3497.3 | 3426.0 |
| 17.5° | 3837.5 | 3831.9 | 3892.7 | 3953.5 | 3988.5 | 4023.5 | 3978.7 | 3933.3 | 3810.4 | 3687.6 | 3581.4 |
| 20° | 3714.6 | 3749.0 | 3868.2 | 3986.7 | 4081.3 | 4175.8 | 4170.9 | 4166.6 | 4006.3 | 3845.4 | 3706.0 |
| 22.5° | 3542.7 | 3593.7 | 3749.0 | 3904.4 | 4040.7 | 4177.1 | 4212.1 | 4246.4 | 4089.2 | 3931.4 | 3759.5 |
| 25° | 3359.7 | 3415.6 | 3559.3 | 3703.0 | 3849.7 | 3996.5 | 4061.6 | 4126.7 | 3997.1 | 3867.6 | 3700.5 |
| 27.5° | 3182.2 | 3236.3 | 3343.1 | 3450.0 | 3567.9 | 3685.8 | 3758.9 | 3831.9 | 3752.7 | 3673.5 | 3538.4 |
| 30° | 3015.2 | 3056.9 | 3134.3 | 3211.7 | 3291.5 | 3371.4 | 3429.7 | 3488.0 | 3435.8 | 3383.6 | 3286.6 |
| 32.5° | 2861.1 | 2878.9 | 2929.2 | 2979.6 | 3039.1 | 3098.1 | 3130.6 | 3162.6 | 3122.0 | 3081.5 | 3017.6 |
| 35° | 2722.9 | 2708.1 | 2741.3 | 2774.5 | 2822.4 | 2870.9 | 2895.4 | 2920.0 | 2886.2 | 2852.5 | 2795.3 |
| 37.5° | 2584.1 | 2543.6 | 2559.5 | 2574.3 | 2615.4 | 2655.9 | 2691.0 | 2726.6 | 2702.0 | 2677.4 | 2628.9 |
| 40° | 2441.6 | 2382.7 | 2381.4 | 2379.6 | 2418.9 | 2457.6 | 2501.8 | 2545.4 | 2541.1 | 2536.2 | 2490.1 |
| 42.5° | 2290.6 | 2215.6 | 2207.7 | 2199.7 | 2238.4 | 2277.1 | 2323.7 | 2370.4 | 2379.6 | 2388.8 | 2350.7 |
| 45° | 2150.6 | 2074.4 | 2062.1 | 2049.8 | 2083.0 | 2117.4 | 2168.4 | 2219.9 | 2241.4 | 2262.9 | 2228.5 |
| 47.5° | 2006.9 | 1940.5 | 1933.2 | 1925.2 | 1960.2 | 1995.8 | 2052.3 | 2109.4 | 2132.1 | 2155.5 | 2132.1 |
| 50° | 1863.2 | 1808.5 | 1817.7 | 1826.9 | 1865.6 | 1903.7 | 1947.9 | 1992.7 | 2035.1 | 2076.9 | 2072.6 |
| 52.5° | 1749.5 | 1708.4 | 1737.3 | 1765.5 | 1800.5 | 1836.1 | 1882.2 | 1928.2 | 1972.5 | 2017.3 | 2024.0 |
| 55° | 1666.6 | 1621.2 | 1661.7 | 1702.3 | 1744.6 | 1787.0 | 1830.0 | 1873.0 | 1914.7 | 1955.9 | 1965.1 |
| 57.5° | 1603.4 | 1540.1 | 1580.7 | 1621.2 | 1667.3 | 1713.3 | 1756.3 | 1799.3 | 1847.8 | 1896.3 | 1903.7 |
| 60° | 1550.6 | 1470.8 | 1497.8 | 1524.2 | 1571.5 | 1618.1 | 1663.0 | 1707.2 | 1756.3 | 1805.4 | 1815.3 |
| 62.5° | 1481.2 | 1376.8 | 1380.5 | 1382.9 | 1436.4 | 1489.2 | 1526.0 | 1562.9 | 1609.5 | 1656.8 | 1670.9 |
| 65° | *1389.1* | *1277.3* | *1265.0* | *1252.7* | *1303.1* | *1354.1* | *1382.9* | *1412.4* | *1452.9* | *1493.5* | *1507.6* |
| 67.5° | 1273.6 | 1174.1 | 1149.0 | 1123.8 | 1170.5 | 1217.1 | 1241.1 | 1265.0 | 1292.7 | 1320.3 | 1336.3 |
| 70° | 1109.1 | 1050.1 | 1034.1 | 1018.2 | 1056.2 | 1094.3 | 1115.2 | 1136.1 | 1158.2 | 1180.3 | 1188.9 |
| 72.5° | 943.2 | 930.3 | 918.7 | 907.6 | 936.5 | 965.4 | 983.2 | 1001.0 | 1021.8 | 1042.7 | 1047.6 |
| 75° | 789.7 | 783.0 | 774.4 | 766.4 | 788.5 | 810.6 | 824.1 | 838.2 | 859.7 | 881.2 | 890.4 |
| 77.5° | 631.9 | 615.3 | 606.7 | 596.9 | 617.2 | 637.4 | 650.3 | 663.2 | 681.0 | 698.8 | 701.3 |
| 80° | 471.6 | 451.4 | 444.6 | 437.2 | 452.0 | 466.7 | 471.6 | 475.9 | 490.7 | 504.8 | 504.8 |
| 82.5° | 297.8 | 297.8 | 293.5 | 288.6 | 285.6 | 282.5 | 276.3 | 270.2 | 284.9 | 299.7 | 304.6 |
| 85° | 149.8 | 150.5 | 143.7 | 136.3 | 127.7 | 117.9 | 116.1 | 113.6 | 113.0 | 111.8 | 116.1 |
| 87.5° | 46.7 | 50.4 | 54.0 | 56.5 | 60.2 | 62.6 | 60.8 | 58.3 | 55.9 | 54.0 | 49.1 |
| 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° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 3690.7 | 3684.6 | 3678.4 | 3673.5 | 3669.2 | 3666.1 | 3669.2 | 3673.5 | 3678.4 | 3684.6 | 3690.7 |
| 5° | 3466.5 | 3456.7 | 3446.3 | 3439.5 | 3432.8 | 3426.6 | 3432.8 | 3439.5 | 3446.3 | 3456.7 | 3466.5 |
| 7.5° | 3328.4 | 3312.4 | 3296.4 | 3284.8 | 3273.1 | 3267.0 | 3273.1 | 3284.8 | 3296.4 | 3312.4 | 3328.4 |
| 10° | 3253.5 | 3230.7 | 3208.6 | 3196.3 | 3184.1 | 3174.9 | 3184.1 | 3196.3 | 3208.6 | 3230.7 | 3253.5 |
| 12.5° | 3259.6 | 3231.4 | 3204.3 | 3185.9 | 3167.5 | 3156.4 | 3167.5 | 3185.9 | 3204.3 | 3231.4 | 3259.6 |
| 15° | 3354.2 | 3314.9 | 3274.3 | 3251.6 | 3228.9 | 3211.7 | 3228.9 | 3251.6 | 3274.3 | 3314.9 | 3354.2 |
| 17.5° | 3475.8 | 3418.0 | 3360.3 | 3340.0 | 3319.2 | 3310.0 | 3319.2 | 3340.0 | 3360.3 | 3418.0 | 3475.8 |
| 20° | 3566.6 | 3489.3 | 3413.1 | 3382.4 | 3351.7 | 3340.7 | 3351.7 | 3382.4 | 3413.1 | 3489.3 | 3566.6 |
| 22.5° | 3587.5 | 3496.6 | 3405.1 | 3376.3 | 3346.8 | 3334.5 | 3346.8 | 3376.3 | 3405.1 | 3496.6 | 3587.5 |
| 25° | 3534.1 | 3438.3 | 3341.9 | 3312.4 | 3282.3 | 3273.1 | 3282.3 | 3312.4 | 3341.9 | 3438.3 | 3534.1 |
| 27.5° | 3403.3 | 3318.6 | 3233.2 | 3201.9 | 3169.9 | 3150.3 | 3169.9 | 3201.9 | 3233.2 | 3318.6 | 3403.3 |
| 30° | 3190.2 | 3127.0 | 3064.3 | 3044.7 | 3024.4 | 3015.2 | 3024.4 | 3044.7 | 3064.3 | 3127.0 | 3190.2 |
| 32.5° | 2953.8 | 2914.5 | 2875.2 | 2862.3 | 2849.4 | 2843.2 | 2849.4 | 2862.3 | 2875.2 | 2914.5 | 2953.8 |
| 35° | 2738.9 | 2710.6 | 2682.4 | 2671.9 | 2662.1 | 2652.9 | 2662.1 | 2671.9 | 2682.4 | 2710.6 | 2738.9 |
| 37.5° | 2580.4 | 2547.3 | 2512.9 | 2494.4 | 2476.0 | 2462.5 | 2476.0 | 2494.4 | 2512.9 | 2547.3 | 2580.4 |
| 40° | 2444.1 | 2396.2 | 2348.9 | 2323.7 | 2297.9 | 2284.4 | 2297.9 | 2323.7 | 2348.9 | 2396.2 | 2444.1 |
| 42.5° | 2312.1 | 2256.8 | 2201.5 | 2162.8 | 2124.8 | 2100.2 | 2124.8 | 2162.8 | 2201.5 | 2256.8 | 2312.1 |
| 45° | 2193.5 | 2131.5 | 2069.5 | 2023.4 | 1977.4 | 1946.7 | 1977.4 | 2023.4 | 2069.5 | 2131.5 | 2193.5 |
| 47.5° | 2109.4 | 2056.0 | 2001.9 | 1961.4 | 1920.9 | 1891.4 | 1920.9 | 1961.4 | 2001.9 | 2056.0 | 2109.4 |
| 50° | 2068.3 | 2025.9 | 1983.5 | 1945.4 | 1906.8 | 1879.1 | 1906.8 | 1945.4 | 1983.5 | 2025.9 | 2068.3 |
| 52.5° | 2031.4 | 2000.7 | 1970.0 | 1936.8 | 1903.7 | 1879.1 | 1903.7 | 1936.8 | 1970.0 | 2000.7 | 2031.4 |
| 55° | 1974.3 | 1952.2 | 1929.5 | 1904.9 | 1880.3 | 1860.7 | 1880.3 | 1904.9 | 1929.5 | 1952.2 | 1974.3 |
| 57.5° | 1911.1 | 1887.7 | 1863.8 | 1845.3 | 1826.9 | 1817.7 | 1826.9 | 1845.3 | 1863.8 | 1887.7 | 1911.1 |
| 60° | 1825.1 | 1806.7 | 1788.2 | 1771.0 | 1753.2 | 1737.9 | 1753.2 | 1771.0 | 1788.2 | 1806.7 | 1825.1 |
| 62.5° | 1685.7 | 1677.1 | 1669.1 | 1649.5 | 1630.4 | 1608.9 | 1630.4 | 1649.5 | 1669.1 | 1677.1 | 1685.7 |
| 65° | *1521.7* | *1517.4* | *1513.7* | *1499.6* | *1486.1* | *1461.5* | *1486.1* | *1499.6* | *1513.7* | *1517.4* | *1521.7* |
| 67.5° | 1352.2 | 1344.2 | 1335.7 | 1320.9 | 1306.8 | 1301.9 | 1306.8 | 1320.9 | 1335.7 | 1344.2 | 1352.2 |
| 70° | 1197.5 | 1185.2 | 1172.9 | 1139.8 | 1106.6 | 1068.5 | 1106.6 | 1139.8 | 1172.9 | 1185.2 | 1197.5 |
| 72.5° | 1053.2 | 1034.1 | 1014.5 | 975.8 | 936.5 | 896.6 | 936.5 | 975.8 | 1014.5 | 1034.1 | 1053.2 |
| 75° | 899.6 | 872.6 | 846.2 | 805.1 | 764.5 | 736.9 | 764.5 | 805.1 | 846.2 | 872.6 | 899.6 |
| 77.5° | 705.0 | 681.6 | 658.3 | 633.7 | 609.2 | 595.7 | 609.2 | 633.7 | 658.3 | 681.6 | 705.0 |
| 80° | 504.8 | 487.6 | 469.8 | 457.5 | 445.2 | 436.0 | 445.2 | 457.5 | 469.8 | 487.6 | 504.8 |
| 82.5° | 310.1 | 302.1 | 294.8 | 281.3 | 267.1 | 257.9 | 267.1 | 281.3 | 294.8 | 302.1 | 310.1 |
| 85° | 119.7 | 117.9 | 116.7 | 111.8 | 107.5 | 104.4 | 107.5 | 111.8 | 116.7 | 117.9 | 119.7 |
| 87.5° | 44.2 | 40.5 | 36.8 | 34.4 | 31.9 | 30.7 | 31.9 | 34.4 | 36.8 | 40.5 | 44.2 |
| 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: P1364158
CATALOG NUMBER: GSS-SB4D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 3703.6 | 3716.5 | 3736.1 | 3755.2 | 3782.2 | 3808.6 | 3831.3 | 3853.4 | 3878.6 | 3904.4 | 3936.9 |
| 5° | 3490.5 | 3513.8 | 3542.7 | 3570.9 | 3607.2 | 3642.8 | 3683.3 | 3722.6 | 3770.5 | 3818.4 | 3876.1 |
| 7.5° | 3355.4 | 3382.4 | 3424.2 | 3466.5 | 3511.4 | 3555.6 | 3608.4 | 3661.2 | 3723.9 | 3785.9 | 3857.1 |
| 10° | 3292.8 | 3333.3 | 3380.0 | 3426.6 | 3485.0 | 3543.3 | 3599.2 | 3655.1 | 3718.9 | 3782.8 | 3857.7 |
| 12.5° | 3309.3 | 3359.1 | 3421.7 | 3485.0 | 3555.0 | 3624.4 | 3676.0 | 3727.5 | 3771.8 | 3816.6 | 3878.6 |
| 15° | 3426.0 | 3497.3 | 3585.1 | 3672.3 | 3736.7 | 3801.2 | 3819.0 | 3836.8 | 3840.5 | 3844.2 | 3884.7 |
| 17.5° | 3581.4 | 3687.6 | 3810.4 | 3933.3 | 3978.7 | 4023.5 | 3988.5 | 3953.5 | 3892.7 | 3831.9 | 3837.5 |
| 20° | 3706.0 | 3845.4 | 4006.3 | 4166.6 | 4170.9 | 4175.8 | 4081.3 | 3986.7 | 3868.2 | 3749.0 | 3714.6 |
| 22.5° | 3759.5 | 3931.4 | 4089.2 | 4246.4 | 4212.1 | 4177.1 | 4040.7 | 3904.4 | 3749.0 | 3593.7 | 3542.7 |
| 25° | 3700.5 | 3867.6 | 3997.1 | 4126.7 | 4061.6 | 3996.5 | 3849.7 | 3703.0 | 3559.3 | 3415.6 | 3359.7 |
| 27.5° | 3538.4 | 3673.5 | 3752.7 | 3831.9 | 3758.9 | 3685.8 | 3567.9 | 3450.0 | 3343.1 | 3236.3 | 3182.2 |
| 30° | 3286.6 | 3383.6 | 3435.8 | 3488.0 | 3429.7 | 3371.4 | 3291.5 | 3211.7 | 3134.3 | 3056.9 | 3015.2 |
| 32.5° | 3017.6 | 3081.5 | 3122.0 | 3162.6 | 3130.6 | 3098.1 | 3039.1 | 2979.6 | 2929.2 | 2878.9 | 2861.1 |
| 35° | 2795.3 | 2852.5 | 2886.2 | 2920.0 | 2895.4 | 2870.9 | 2822.4 | 2774.5 | 2741.3 | 2708.1 | 2722.9 |
| 37.5° | 2628.9 | 2677.4 | 2702.0 | 2726.6 | 2691.0 | 2655.9 | 2615.4 | 2574.3 | 2559.5 | 2543.6 | 2584.1 |
| 40° | 2490.1 | 2536.2 | 2541.1 | 2545.4 | 2501.8 | 2457.6 | 2418.9 | 2379.6 | 2381.4 | 2382.7 | 2441.6 |
| 42.5° | 2350.7 | 2388.8 | 2379.6 | 2370.4 | 2323.7 | 2277.1 | 2238.4 | 2199.7 | 2207.7 | 2215.6 | 2290.6 |
| 45° | 2228.5 | 2262.9 | 2241.4 | 2219.9 | 2168.4 | 2117.4 | 2083.0 | 2049.8 | 2062.1 | 2074.4 | 2150.6 |
| 47.5° | 2132.1 | 2155.5 | 2132.1 | 2109.4 | 2052.3 | 1995.8 | 1960.2 | 1925.2 | 1933.2 | 1940.5 | 2006.9 |
| 50° | 2072.6 | 2076.9 | 2035.1 | 1992.7 | 1947.9 | 1903.7 | 1865.6 | 1826.9 | 1817.7 | 1808.5 | 1863.2 |
| 52.5° | 2024.0 | 2017.3 | 1972.5 | 1928.2 | 1882.2 | 1836.1 | 1800.5 | 1765.5 | 1737.3 | 1708.4 | 1749.5 |
| 55° | 1965.1 | 1955.9 | 1914.7 | 1873.0 | 1830.0 | 1787.0 | 1744.6 | 1702.3 | 1661.7 | 1621.2 | 1666.6 |
| 57.5° | 1903.7 | 1896.3 | 1847.8 | 1799.3 | 1756.3 | 1713.3 | 1667.3 | 1621.2 | 1580.7 | 1540.1 | 1603.4 |
| 60° | 1815.3 | 1805.4 | 1756.3 | 1707.2 | 1663.0 | 1618.1 | 1571.5 | 1524.2 | 1497.8 | 1470.8 | 1550.6 |
| 62.5° | 1670.9 | 1656.8 | 1609.5 | 1562.9 | 1526.0 | 1489.2 | 1436.4 | 1382.9 | 1380.5 | 1376.8 | 1481.2 |
| 65° | *1507.6* | *1493.5* | *1452.9* | *1412.4* | *1382.9* | *1354.1* | *1303.1* | *1252.7* | *1265.0* | *1277.3* | *1389.1* |
| 67.5° | 1336.3 | 1320.3 | 1292.7 | 1265.0 | 1241.1 | 1217.1 | 1170.5 | 1123.8 | 1149.0 | 1174.1 | 1273.6 |
| 70° | 1188.9 | 1180.3 | 1158.2 | 1136.1 | 1115.2 | 1094.3 | 1056.2 | 1018.2 | 1034.1 | 1050.1 | 1109.1 |
| 72.5° | 1047.6 | 1042.7 | 1021.8 | 1001.0 | 983.2 | 965.4 | 936.5 | 907.6 | 918.7 | 930.3 | 943.2 |
| 75° | 890.4 | 881.2 | 859.7 | 838.2 | 824.1 | 810.6 | 788.5 | 766.4 | 774.4 | 783.0 | 789.7 |
| 77.5° | 701.3 | 698.8 | 681.0 | 663.2 | 650.3 | 637.4 | 617.2 | 596.9 | 606.7 | 615.3 | 631.9 |
| 80° | 504.8 | 504.8 | 490.7 | 475.9 | 471.6 | 466.7 | 452.0 | 437.2 | 444.6 | 451.4 | 471.6 |
| 82.5° | 304.6 | 299.7 | 284.9 | 270.2 | 276.3 | 282.5 | 285.6 | 288.6 | 293.5 | 297.8 | 297.8 |
| 85° | 116.1 | 111.8 | 113.0 | 113.6 | 116.1 | 117.9 | 127.7 | 136.3 | 143.7 | 150.5 | 149.8 |
| 87.5° | 49.1 | 54.0 | 55.9 | 58.3 | 60.8 | 62.6 | 60.2 | 56.5 | 54.0 | 50.4 | 46.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1364158
CATALOG NUMBER: GSS-SB4D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 3970.1 | 4000.8 | 4035.8 | 4070.8 | 4105.2 | 4141.4 | 4177.1 | 4212.7 | 4248.3 | 4287.0 | 4326.3 |
| 5° | 3935.1 | 3994.7 | 4064.1 | 4130.4 | 4197.3 | 4267.9 | 4338.6 | 4410.4 | 4482.9 | 4551.6 | 4621.0 |
| 7.5° | 3929.0 | 4000.8 | 4092.9 | 4181.4 | 4269.2 | 4367.4 | 4465.7 | 4575.6 | 4685.5 | 4802.2 | 4918.9 |
| 10° | 3933.3 | 4010.0 | 4108.3 | 4209.6 | 4310.9 | 4432.5 | 4553.5 | 4690.4 | 4826.8 | 4966.8 | 5106.2 |
| 12.5° | 3941.2 | 4016.2 | 4123.6 | 4234.8 | 4346.5 | 4482.3 | 4618.0 | 4770.9 | 4923.8 | 5062.6 | 5201.4 |
| 15° | 3925.3 | 3991.6 | 4111.3 | 4237.2 | 4363.1 | 4509.9 | 4656.0 | 4811.4 | 4966.8 | 5106.8 | 5247.4 |
| 17.5° | 3843.0 | 3899.5 | 4039.5 | 4185.7 | 4332.4 | 4498.8 | 4665.9 | 4831.7 | 4997.5 | 5128.3 | 5259.7 |
| 20° | 3679.6 | 3715.3 | 3900.7 | 4093.5 | 4286.4 | 4482.3 | 4678.2 | 4856.2 | 5034.3 | 5167.0 | 5299.6 |
| 22.5° | 3491.1 | 3524.9 | 3746.0 | 3987.9 | 4229.9 | 4469.4 | 4708.9 | 4904.1 | 5100.0 | 5221.0 | 5342.6 |
| 25° | 3303.8 | 3306.9 | 3560.5 | 3862.0 | 4163.5 | 4468.1 | 4772.7 | 4986.4 | 5200.1 | 5305.1 | 5410.2 |
| 27.5° | 3128.8 | 3113.4 | 3372.6 | 3733.1 | 4092.9 | 4479.8 | 4866.7 | 5106.8 | 5347.5 | 5428.0 | 5508.4 |
| 30° | 2973.4 | 2956.9 | 3208.6 | 3620.7 | 4033.4 | 4505.0 | 4977.2 | 5249.3 | 5520.7 | 5583.3 | 5646.6 |
| 32.5° | 2843.2 | 2843.2 | 3075.4 | 3522.4 | 3970.1 | 4533.2 | 5097.0 | 5416.9 | 5736.8 | 5776.1 | 5815.5 |
| 35° | 2737.6 | 2775.7 | 2955.0 | 3410.7 | 3865.7 | 4526.5 | 5187.8 | 5595.0 | 6002.7 | 6051.9 | 6101.0 |
| 37.5° | 2623.4 | 2695.9 | 2837.1 | 3286.6 | 3736.7 | 4507.4 | 5278.1 | 5812.4 | 6346.6 | 6405.0 | 6463.3 |
| 40° | 2500.6 | 2591.5 | 2703.2 | 3138.6 | 3574.0 | 4464.4 | 5354.9 | 6061.1 | 6767.3 | 6882.7 | 6997.6 |
| 42.5° | 2365.5 | 2477.9 | 2555.9 | 2962.4 | 3368.3 | 4390.1 | 5411.4 | 6336.2 | 7259.8 | 7503.6 | 7746.8 |
| 45° | 2227.9 | 2339.7 | 2410.3 | 2783.1 | 3156.4 | 4339.2 | 5521.9 | 6709.6 | 7897.2 | 8287.2 | 8677.1 |
| 47.5° | 2072.6 | 2177.0 | 2258.6 | 2605.0 | 2952.6 | 4279.6 | 5606.7 | 7093.4 | 8580.1 | 9073.8 | 9567.6 |
| 50° | 1917.2 | 2020.4 | 2132.1 | 2446.5 | 2760.3 | 4178.3 | 5595.6 | 7428.1 | 9260.5 | 9929.9 | 10599.2 |
| 52.5° | 1790.1 | 1900.6 | 2043.7 | 2304.1 | 2565.7 | 3970.7 | 5376.4 | 7586.5 | 9796.0 | 10859.6 | 11922.6 |
| 55° | 1712.1 | 1842.3 | 1984.7 | 2184.9 | 2383.9 | 3695.6 | 5006.1 | 7544.7 | 10083.4 | 11793.6 | 13503.9 |
| 57.5° | 1667.3 | 1826.9 | 1946.7 | 2084.2 | 2221.8 | 3407.6 | 4593.4 | 7316.9 | 10040.4 | 12577.8 | 15115.9 |
| 60° | 1630.4 | 1790.1 | 1884.0 | 1980.4 | 2076.9 | 3043.4 | 4010.0 | 6771.0 | 9531.9 | 12929.1 | 16325.6 |
| 62.5° | 1585.6 | 1737.9 | 1777.8 | 1831.2 | 1885.3 | 2581.6 | 3278.0 | 5876.2 | 8474.5 | 12149.8 | 15825.2 |
| 65° | *1501.5* | *1627.3* | *1638.4* | *1649.5* | *1661.1* | *2029.0* | *2396.2* | *4609.4* | *6822.6* | *10479.5* | *14136.4* |
| 67.5° | 1372.5 | 1458.5 | 1441.9 | 1409.3 | 1376.8 | 1551.2 | 1725.6 | 3586.9 | 5448.2 | 9000.1 | 12552.0 |
| 70° | 1168.0 | 1209.8 | 1214.7 | 1166.2 | 1117.6 | 1179.1 | 1240.5 | 2748.7 | 4256.9 | 7646.1 | 11035.2 |
| 72.5° | 956.8 | 930.3 | 979.5 | 942.6 | 905.8 | 906.4 | 907.6 | 2066.4 | 3225.2 | 6349.1 | 9472.4 |
| 75° | 797.1 | 779.9 | 760.2 | 716.0 | 672.4 | 676.1 | 680.4 | 1531.5 | 2382.7 | 5069.3 | 7756.0 |
| 77.5° | 647.9 | 644.8 | 588.3 | 540.4 | 492.5 | 490.0 | 486.4 | 989.9 | 1493.5 | 3325.9 | 5158.4 |
| 80° | 491.3 | 494.3 | 414.5 | 364.8 | 314.4 | 312.0 | 308.3 | 547.2 | 786.0 | 1906.8 | 3027.5 |
| 82.5° | 297.8 | 285.6 | 240.7 | 216.2 | 191.6 | 191.0 | 190.4 | 294.2 | 397.9 | 955.5 | 1513.7 |
| 85° | 148.6 | 141.2 | 116.7 | 100.7 | 84.7 | 80.4 | 76.8 | 93.3 | 110.5 | 227.2 | 343.9 |
| 87.5° | 43.0 | 36.8 | 33.8 | 30.7 | 27.6 | 25.8 | 24.6 | 25.2 | 25.8 | 27.0 | 27.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report

REPORT NUMBER: P1364158
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | *4003.9* | 4003.9 | 4003.9 |
| 2.5° | 4341.6 | 4357.0 | 4373.6 | 4390.8 | 4400.6 | 4410.4 | 4420.8 | 4430.7 | *4439.9* | 4430.7 | 4420.8 |
| 5° | 4690.4 | 4759.2 | 4805.9 | 4852.6 | 4888.2 | 4923.8 | 4944.1 | 4964.9 | *4968.0* | 4964.9 | 4944.1 |
| 7.5° | 5001.2 | 5083.5 | 5154.7 | 5225.9 | 5271.4 | 5316.8 | 5343.2 | 5370.2 | *5379.4* | 5370.2 | 5343.2 |
| 10° | 5202.6 | 5299.6 | 5368.4 | 5437.8 | 5480.2 | 5521.9 | 5542.8 | 5563.7 | *5569.8* | 5563.7 | 5542.8 |
| 12.5° | 5294.1 | 5386.8 | 5440.2 | 5493.1 | 5520.1 | 5546.5 | 5556.3 | 5564.9 | *5557.5* | 5564.9 | 5556.3 |
| 15° | 5302.1 | 5356.1 | 5378.8 | 5400.9 | 5388.0 | 5374.5 | 5355.5 | 5336.5 | *5324.2* | 5336.5 | 5355.5 |
| 17.5° | 5278.7 | 5298.4 | 5257.2 | 5216.7 | 5143.0 | 5069.3 | 5014.1 | 4958.8 | *4918.9* | 4958.8 | 5014.1 |
| 20° | 5268.9 | 5238.2 | 5128.9 | 5020.2 | 4882.0 | 4743.9 | 4651.1 | 4557.8 | *4501.3* | 4557.8 | 4651.1 |
| 22.5° | 5256.0 | 5169.4 | 4985.8 | 4802.2 | 4613.1 | 4424.5 | 4317.7 | 4211.4 | *4151.3* | 4211.4 | 4317.7 |
| 25° | 5261.5 | 5112.3 | 4864.2 | 4616.7 | 4394.4 | 4172.8 | 4056.7 | 3941.2 | *3874.9* | 3941.2 | 4056.7 |
| 27.5° | 5281.2 | 5054.0 | 4746.9 | 4439.9 | 4199.2 | 3957.8 | 3847.3 | 3736.7 | *3678.4* | 3736.7 | 3847.3 |
| 30° | 5345.1 | 5042.9 | 4675.7 | 4307.9 | 4056.1 | 3804.3 | 3696.2 | 3587.5 | *3524.9* | 3587.5 | 3696.2 |
| 32.5° | 5434.7 | 5054.0 | 4642.5 | 4231.1 | 3974.4 | 3718.3 | 3614.5 | 3511.4 | *3457.3* | 3511.4 | 3614.5 |
| 35° | 5618.9 | 5136.9 | 4680.6 | 4225.0 | 3986.7 | 3749.0 | 3672.9 | 3597.4 | *3567.9* | 3597.4 | 3672.9 |
| 37.5° | 5900.2 | 5336.5 | 4866.7 | 4396.9 | 4234.8 | 4072.7 | 4072.7 | 4072.7 | *4096.0* | 4072.7 | 4072.7 |
| 40° | 6365.1 | 5732.5 | 5287.9 | 4844.0 | 4834.1 | 4825.5 | 4928.7 | 5032.5 | *5078.5* | 5032.5 | 4928.7 |
| 42.5° | 7078.0 | 6409.9 | 6051.3 | 5692.6 | 5907.6 | 6122.5 | 6420.9 | 6719.4 | *6914.7* | 6719.4 | 6420.9 |
| 45° | 8026.2 | 7375.2 | 7124.7 | 6874.8 | 7353.1 | 7830.9 | 8358.4 | 8885.9 | *9260.5* | 8885.9 | 8358.4 |
| 47.5° | 9019.8 | 8471.4 | 8328.3 | 8185.8 | 8981.1 | 9776.3 | 10549.5 | 11322.6 | *11778.3* | 11322.6 | 10549.5 |
| 50° | 10106.7 | 9613.6 | 9586.0 | 9558.3 | 10617.7 | 11677.0 | 12674.9 | 13672.8 | *14228.5* | 13672.8 | 12674.9 |
| 52.5° | 11381.6 | 10840.0 | 10862.1 | 10882.9 | 12141.2 | 13399.5 | 14606.2 | 15812.9 | *16439.2* | 15812.9 | 14606.2 |
| 55° | 12825.3 | 12146.7 | 12143.1 | 12139.4 | 13584.9 | 15031.7 | 16514.2 | 17997.8 | *18834.2* | 17997.8 | 16514.2 |
| 57.5° | 14480.3 | 13844.7 | 13693.6 | 13542.0 | 15053.9 | 16565.1 | 18202.3 | 19840.1 | *20719.5* | 19840.1 | 18202.3 |
| 60° | 15975.6 | 15625.6 | 15383.6 | 15142.3 | 16694.7 | 18247.7 | 19939.0 | 21629.5 | *22506.5* | 21629.5 | 19939.0 |
| 62.5° | 16450.9 | 17076.7 | 17058.9 | 17041.1 | 18716.9 | 20392.8 | 22151.5 | 23911.5 | *24698.8* | 23911.5 | 22151.5 |
| 65° | *15134.3* | *16132.2* | *16818.8* | *17504.7* | *19530.6* | *21555.9* | *23388.3* | *25220.8* | *26025.2* | *25220.8* | *23388.3* |
| 67.5° | 13431.4 | 14311.4 | 14873.3 | 15435.2 | 17717.8 | 20001.0 | 22080.3 | 24159.6 | *24987.4* | 24159.6 | 22080.3 |
| 70° | 12009.2 | 12983.1 | 13384.7 | 13786.4 | 15725.7 | 17664.4 | 19309.5 | 20954.0 | *21278.3* | 20954.0 | 19309.5 |
| 72.5° | 10630.5 | 11789.3 | 11959.4 | 12129.5 | 13540.7 | 14951.9 | 15828.2 | 16704.5 | *15997.1* | 16704.5 | 15828.2 |
| 75° | 9062.8 | 10368.9 | 10482.6 | 10596.2 | 11035.8 | 11476.2 | 11699.1 | 11922.6 | *11520.4* | 11922.6 | 11699.1 |
| 77.5° | 6289.5 | 7421.3 | 7676.1 | 7931.0 | 8223.9 | 8517.5 | 8502.1 | 8486.8 | *7921.8* | 8486.8 | 8502.1 |
| 80° | 3912.4 | 4797.3 | 4830.4 | 4863.6 | 5083.5 | 5302.7 | 5526.8 | 5751.0 | *5391.7* | 5751.0 | 5526.8 |
| 82.5° | 1999.5 | 2485.8 | 2560.8 | 2635.7 | 2770.2 | 2904.7 | 2967.3 | 3030.5 | *2726.6* | 3030.5 | 2967.3 |
| 85° | 470.4 | 596.9 | 719.1 | 841.3 | 982.5 | 1123.8 | 1107.8 | 1091.9 | *921.1* | 1091.9 | 1107.8 |
| 87.5° | 28.2 | 29.5 | 30.1 | 30.7 | 31.3 | 31.9 | 33.8 | 35.6 | *36.8* | 35.6 | 33.8 |
| 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1364158
CATALOG NUMBER: GSS-SB4D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 | 4003.9 |
| 2.5° | 4410.4 | 4400.6 | 4390.8 | 4373.6 | 4357.0 | 4341.6 | 4326.3 |
| 5° | 4923.8 | 4888.2 | 4852.6 | 4805.9 | 4759.2 | 4690.4 | 4621.0 |
| 7.5° | 5316.8 | 5271.4 | 5225.9 | 5154.7 | 5083.5 | 5001.2 | 4918.9 |
| 10° | 5521.9 | 5480.2 | 5437.8 | 5368.4 | 5299.6 | 5202.6 | 5106.2 |
| 12.5° | 5546.5 | 5520.1 | 5493.1 | 5440.2 | 5386.8 | 5294.1 | 5201.4 |
| 15° | 5374.5 | 5388.0 | 5400.9 | 5378.8 | 5356.1 | 5302.1 | 5247.4 |
| 17.5° | 5069.3 | 5143.0 | 5216.7 | 5257.2 | 5298.4 | 5278.7 | 5259.7 |
| 20° | 4743.9 | 4882.0 | 5020.2 | 5128.9 | 5238.2 | 5268.9 | 5299.6 |
| 22.5° | 4424.5 | 4613.1 | 4802.2 | 4985.8 | 5169.4 | 5256.0 | 5342.6 |
| 25° | 4172.8 | 4394.4 | 4616.7 | 4864.2 | 5112.3 | 5261.5 | 5410.2 |
| 27.5° | 3957.8 | 4199.2 | 4439.9 | 4746.9 | 5054.0 | 5281.2 | 5508.4 |
| 30° | 3804.3 | 4056.1 | 4307.9 | 4675.7 | 5042.9 | 5345.1 | 5646.6 |
| 32.5° | 3718.3 | 3974.4 | 4231.1 | 4642.5 | 5054.0 | 5434.7 | 5815.5 |
| 35° | 3749.0 | 3986.7 | 4225.0 | 4680.6 | 5136.9 | 5618.9 | 6101.0 |
| 37.5° | 4072.7 | 4234.8 | 4396.9 | 4866.7 | 5336.5 | 5900.2 | 6463.3 |
| 40° | 4825.5 | 4834.1 | 4844.0 | 5287.9 | 5732.5 | 6365.1 | 6997.6 |
| 42.5° | 6122.5 | 5907.6 | 5692.6 | 6051.3 | 6409.9 | 7078.0 | 7746.8 |
| 45° | 7830.9 | 7353.1 | 6874.8 | 7124.7 | 7375.2 | 8026.2 | 8677.1 |
| 47.5° | 9776.3 | 8981.1 | 8185.8 | 8328.3 | 8471.4 | 9019.8 | 9567.6 |
| 50° | 11677.0 | 10617.7 | 9558.3 | 9586.0 | 9613.6 | 10106.7 | 10599.2 |
| 52.5° | 13399.5 | 12141.2 | 10882.9 | 10862.1 | 10840.0 | 11381.6 | 11922.6 |
| 55° | 15031.7 | 13584.9 | 12139.4 | 12143.1 | 12146.7 | 12825.3 | 13503.9 |
| 57.5° | 16565.1 | 15053.9 | 13542.0 | 13693.6 | 13844.7 | 14480.3 | 15115.9 |
| 60° | 18247.7 | 16694.7 | 15142.3 | 15383.6 | 15625.6 | 15975.6 | 16325.6 |
| 62.5° | 20392.8 | 18716.9 | 17041.1 | 17058.9 | 17076.7 | 16450.9 | 15825.2 |
| 65° | *21555.9* | *19530.6* | *17504.7* | *16818.8* | *16132.2* | *15134.3* | *14136.4* |
| 67.5° | 20001.0 | 17717.8 | 15435.2 | 14873.3 | 14311.4 | 13431.4 | 12552.0 |
| 70° | 17664.4 | 15725.7 | 13786.4 | 13384.7 | 12983.1 | 12009.2 | 11035.2 |
| 72.5° | 14951.9 | 13540.7 | 12129.5 | 11959.4 | 11789.3 | 10630.5 | 9472.4 |
| 75° | 11476.2 | 11035.8 | 10596.2 | 10482.6 | 10368.9 | 9062.8 | 7756.0 |
| 77.5° | 8517.5 | 8223.9 | 7931.0 | 7676.1 | 7421.3 | 6289.5 | 5158.4 |
| 80° | 5302.7 | 5083.5 | 4863.6 | 4830.4 | 4797.3 | 3912.4 | 3027.5 |
| 82.5° | 2904.7 | 2770.2 | 2635.7 | 2560.8 | 2485.8 | 1999.5 | 1513.7 |
| 85° | 1123.8 | 982.5 | 841.3 | 719.1 | 596.9 | 470.4 | 343.9 |
| 87.5° | 31.9 | 31.3 | 30.7 | 30.1 | 29.5 | 28.2 | 27.6 |
| 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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

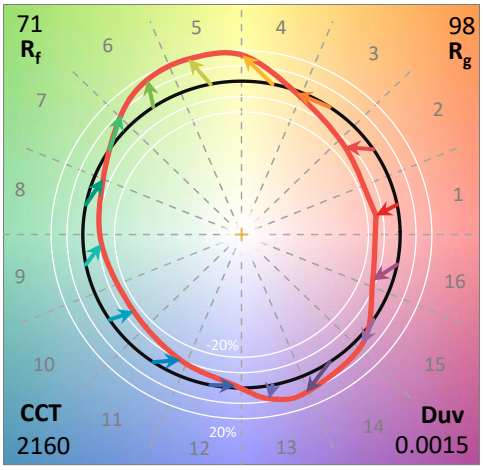
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-2 |
| 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-722-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2200K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 2160 |
| CIE u': | 0.2927 |
| CIE v': | 0.5388 |
| Duv: | 0.0015 |
| CIE x: | 0.5130 |
| CIE y: | 0.4197 |
| CIE z: | 0.0674 |
| Peak Wavelength (nm): | 609 |
| Dominant Wavelength (nm): | 587 |
| Purity: | 79.96089 |
| Rf: | 70.6 |
| Rg: | 97.6 |

| | |
|---|---|
| CRI (Ra): | 71.9 |
| R1: | 68.7 |
| R2: | 82.6 |
| R3: | 95.5 |
| R4: | 66.4 |
| R5: | 65.4 |
| R6: | 75.9 |
| R7: | 77.2 |
| R8: | 43.5 |
| R9: | -17.8 |
| R10: | 60.5 |
| R11: | 60.2 |
| R12: | 48.2 |
| R13: | 70.7 |
| R14: | 96.8 |
| R15: | 61.8 |




## Test Conditions

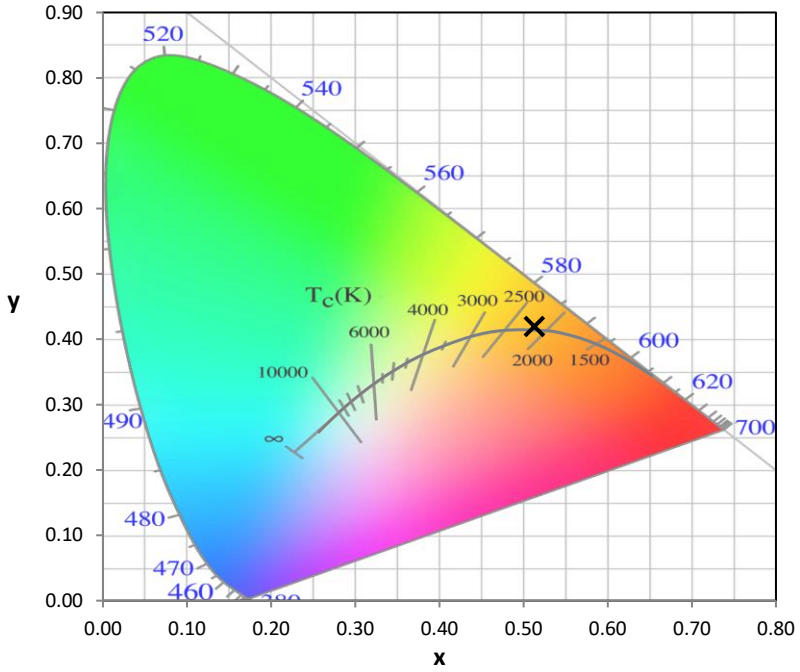
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-2

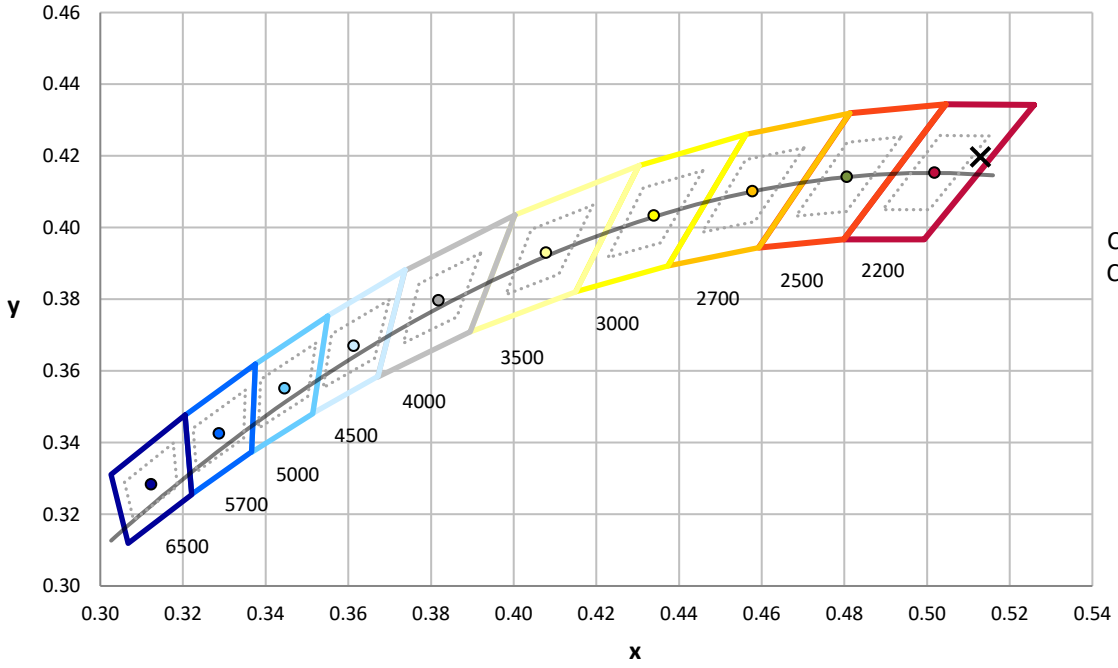
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

## CIE 1931 Chromaticity Diagram




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

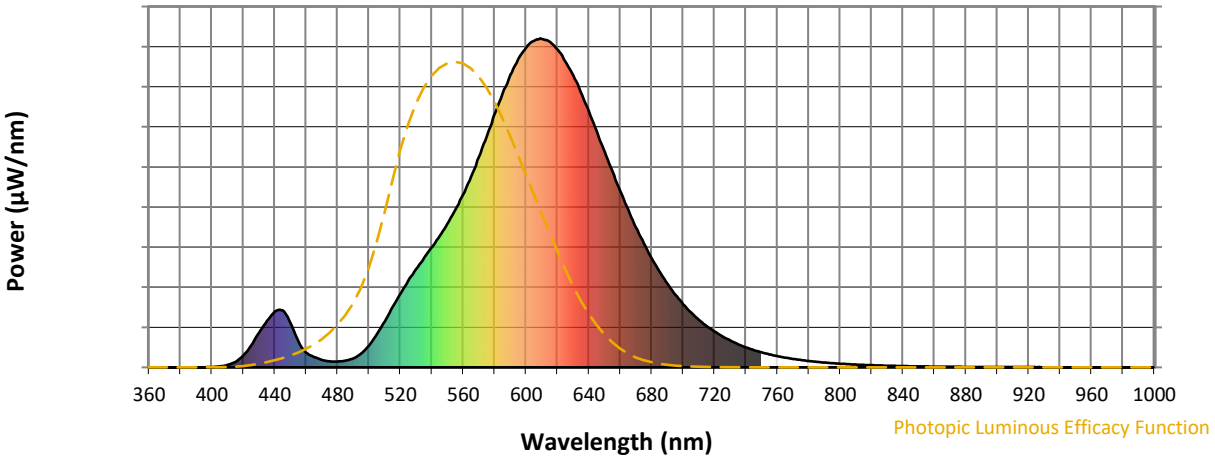



CCT = 2160K
CIE x = 0.5130
CIE y = 0.4197
Duv = 0.0015

Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

## Photopic Flux vs. Wavelength

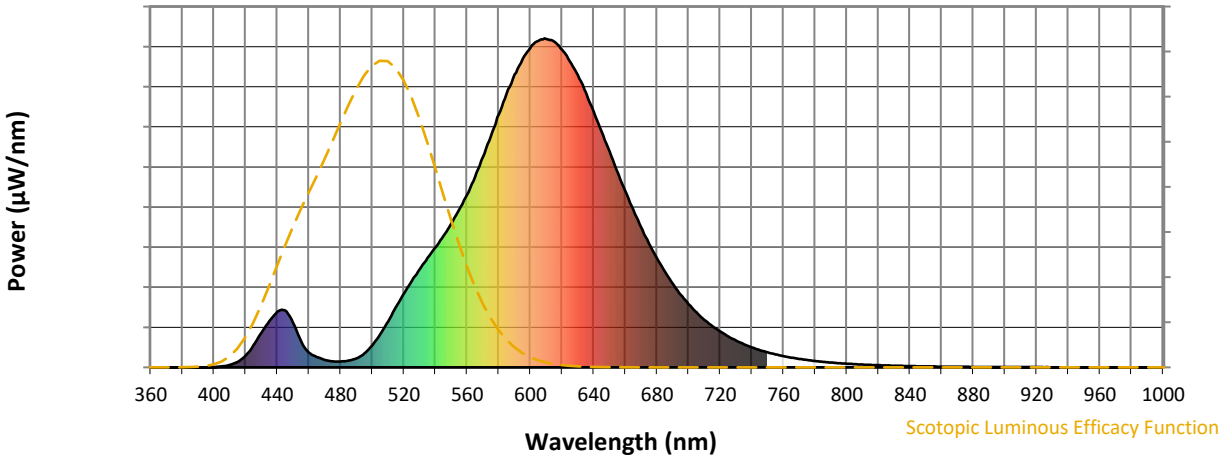



## Photopic Lumens: NR

| 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 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Scotopic Flux vs. Wavelength

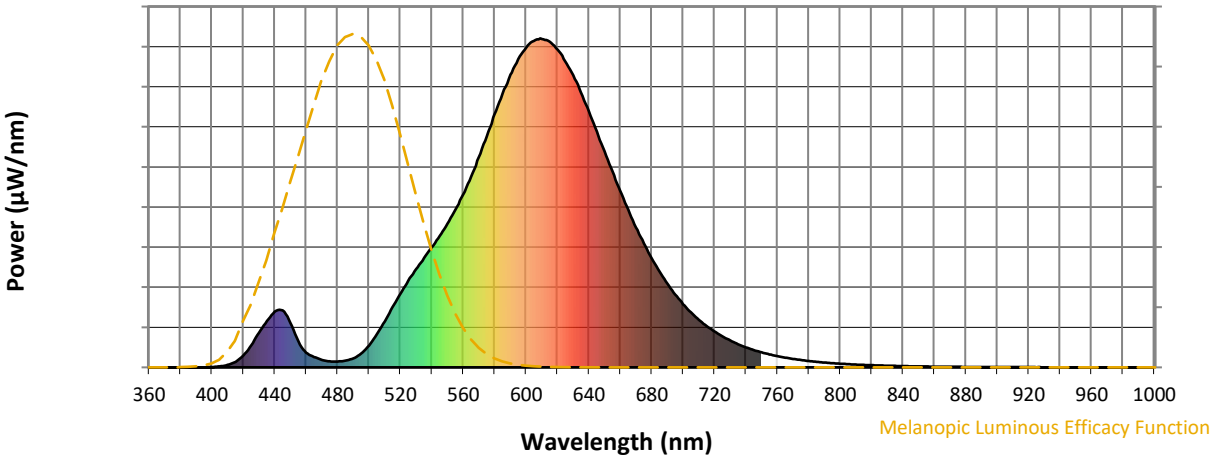



**Scotopic Lumens: NR** **S/P: 0.8**

| 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 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-2

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 1.21**

| 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 | 27 | NR | 620 | 966 | NR | 750 | 46 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 42 | NR | 625 | 930 | NR | 755 | 39 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 67 | NR | 630 | 888 | NR | 760 | 34 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 101 | NR | 635 | 835 | NR | 765 | 30 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 139 | NR | 640 | 778 | NR | 770 | 26 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 183 | NR | 645 | 717 | NR | 775 | 22 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 224 | NR | 650 | 656 | NR | 780 | 19 | NR | 910 | 1 | NR |
| 395 | 0 | NR | 525 | 262 | NR | 655 | 595 | NR | 785 | 17 | NR | 915 | 1 | NR |
| 400 | 1 | NR | 530 | 299 | NR | 660 | 536 | NR | 790 | 15 | NR | 920 | 1 | NR |
| 405 | 3 | NR | 535 | 332 | NR | 665 | 480 | NR | 795 | 13 | NR | 925 | 1 | NR |
| 410 | 7 | NR | 540 | 365 | NR | 670 | 425 | NR | 800 | 11 | NR | 930 | 1 | NR |
| 415 | 17 | NR | 545 | 400 | NR | 675 | 376 | NR | 805 | 10 | NR | 935 | 0 | NR |
| 420 | 36 | NR | 550 | 437 | NR | 680 | 332 | NR | 810 | 8 | NR | 940 | 0 | NR |
| 425 | 67 | NR | 555 | 479 | NR | 685 | 291 | NR | 815 | 8 | NR | 945 | 0 | NR |
| 430 | 105 | NR | 560 | 525 | NR | 690 | 255 | NR | 820 | 7 | NR | 950 | 0 | NR |
| 435 | 141 | NR | 565 | 579 | NR | 695 | 221 | NR | 825 | 6 | NR | 955 | 0 | NR |
| 440 | 169 | NR | 570 | 639 | NR | 700 | 192 | NR | 830 | 5 | NR | 960 | 0 | NR |
| 445 | 173 | NR | 575 | 703 | NR | 705 | 167 | NR | 835 | 4 | NR | 965 | 0 | NR |
| 450 | 136 | NR | 580 | 769 | NR | 710 | 144 | NR | 840 | 4 | NR | 970 | 0 | NR |
| 455 | 80 | NR | 585 | 832 | NR | 715 | 125 | NR | 845 | 3 | NR | 975 | 0 | NR |
| 460 | 45 | NR | 590 | 890 | NR | 720 | 109 | NR | 850 | 3 | NR | 980 | 0 | NR |
| 465 | 32 | NR | 595 | 937 | NR | 725 | 94 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 23 | NR | 600 | 972 | NR | 730 | 81 | NR | 860 | 2 | NR | 990 | 0 | NR |
| 475 | 18 | NR | 605 | 992 | NR | 735 | 70 | NR | 865 | 2 | NR | 995 | 0 | NR |
| 480 | 18 | NR | 610 | 998 | NR | 740 | 61 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 20 | NR | 615 | 990 | NR | 745 | 53 | NR | 875 | 2 | NR | | | |

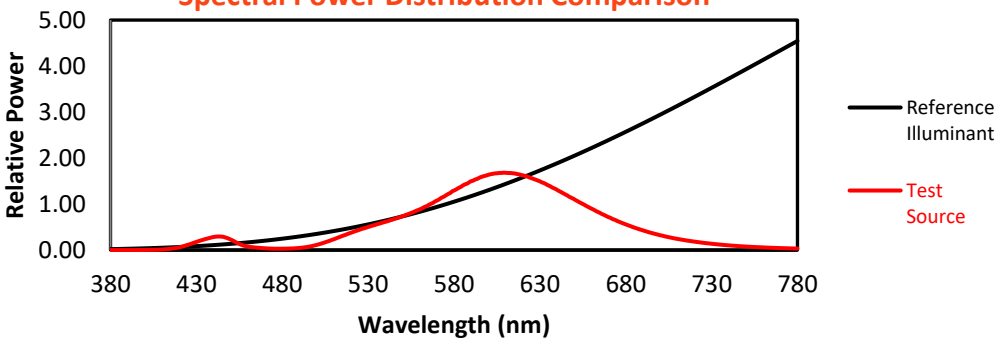
REPORT NUMBER: SP1-2407-184-2

# TM-30-18

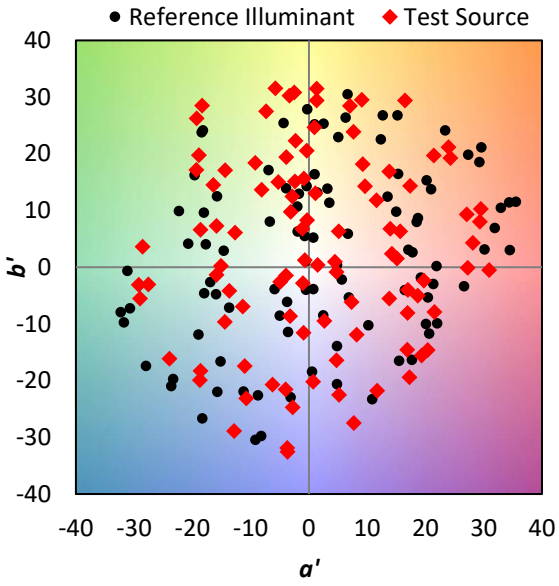
## Summary

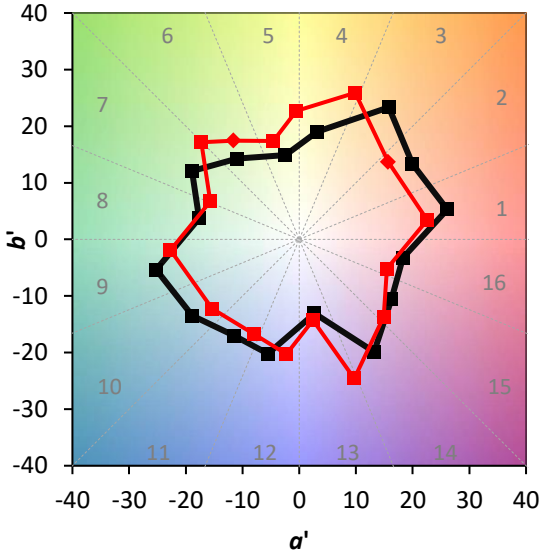
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$R_g$ = 97.6
CIE $R_a$ = 71.9
$R_9$ = -17.8

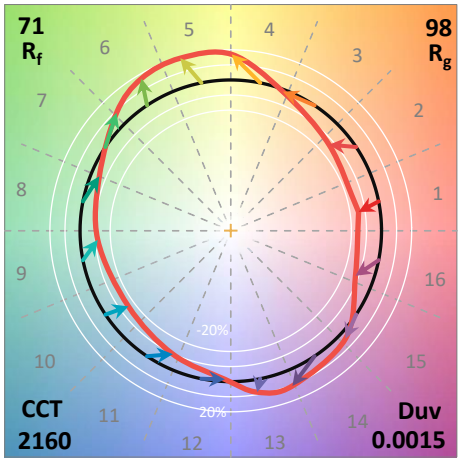
## Spectral Power Distribution Comparison

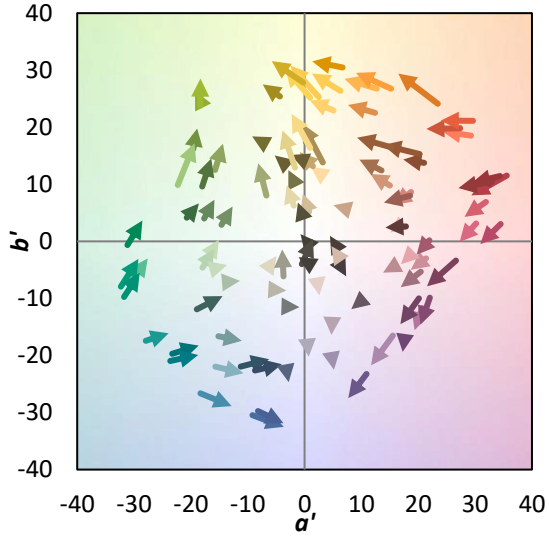



## Color Vector Graphics



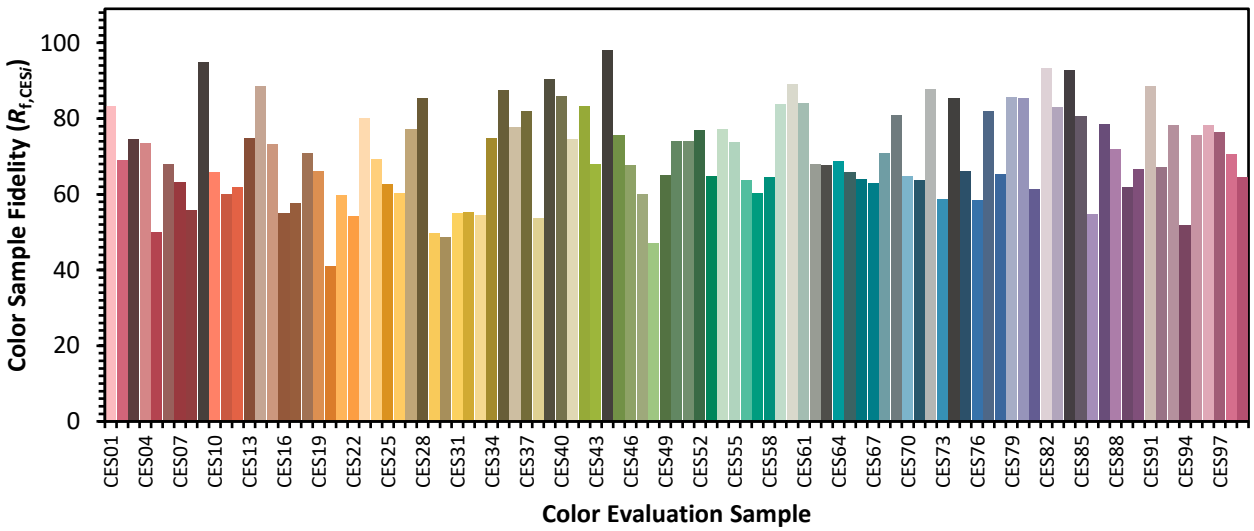



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**Individual Sample Fidelity Index ($R_{f,i}$)**

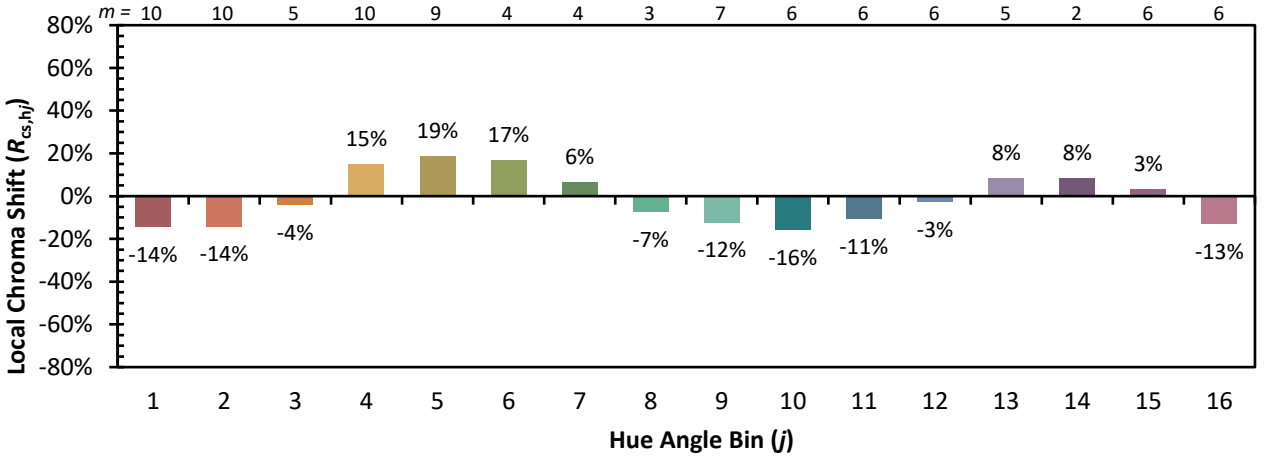
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |

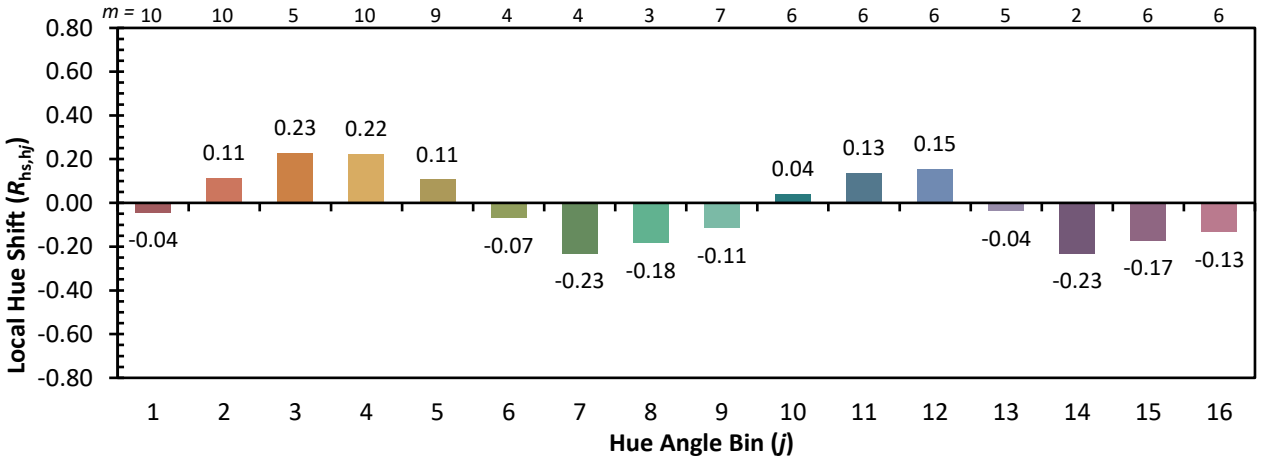


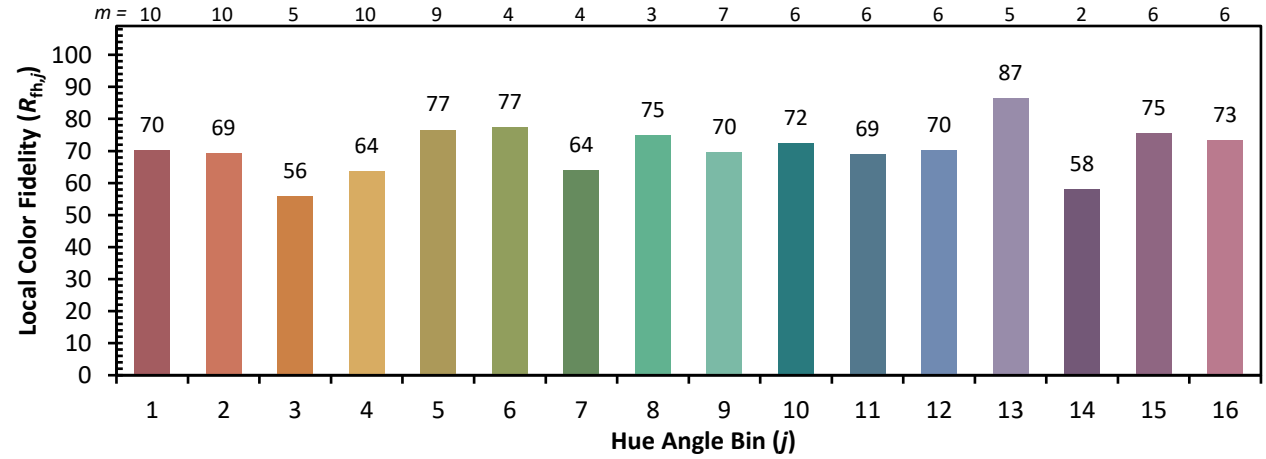
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## Color Rendition by Hue-Angle Bin



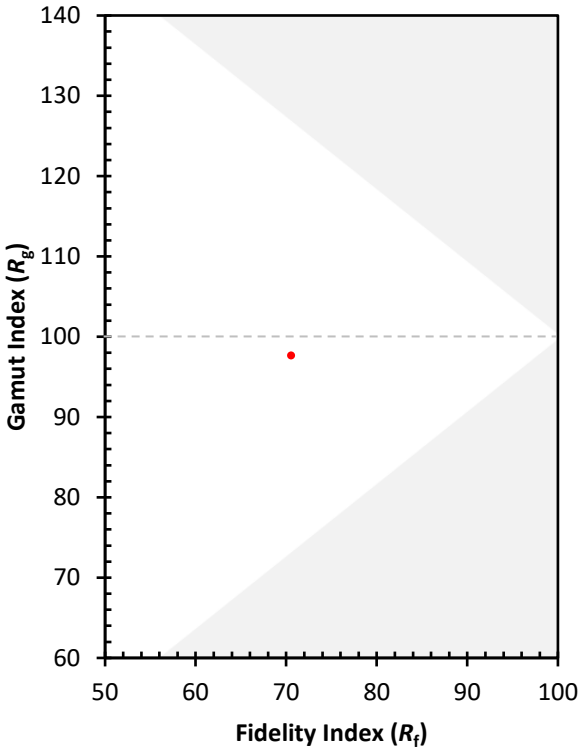



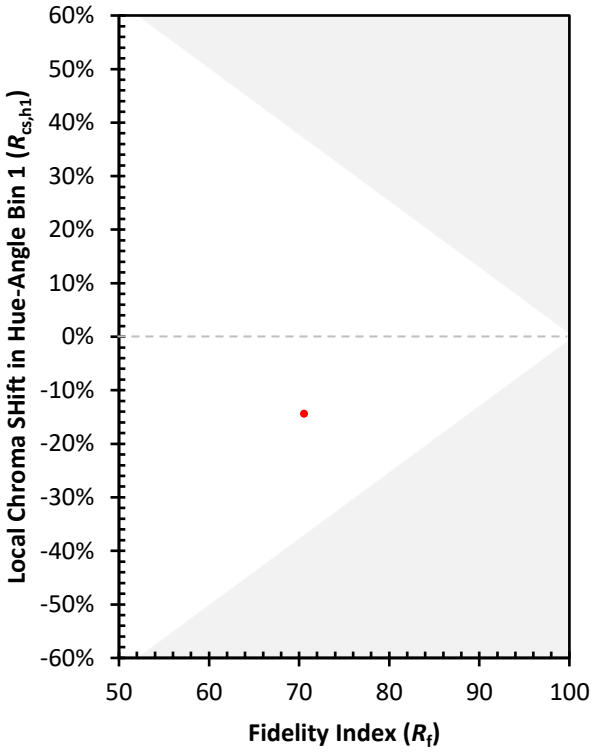



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## Measure Comparisons




(END OF REPORT)