

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637325

Luminaire Tested: GWS-SA4C-750-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-750-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15455.8 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

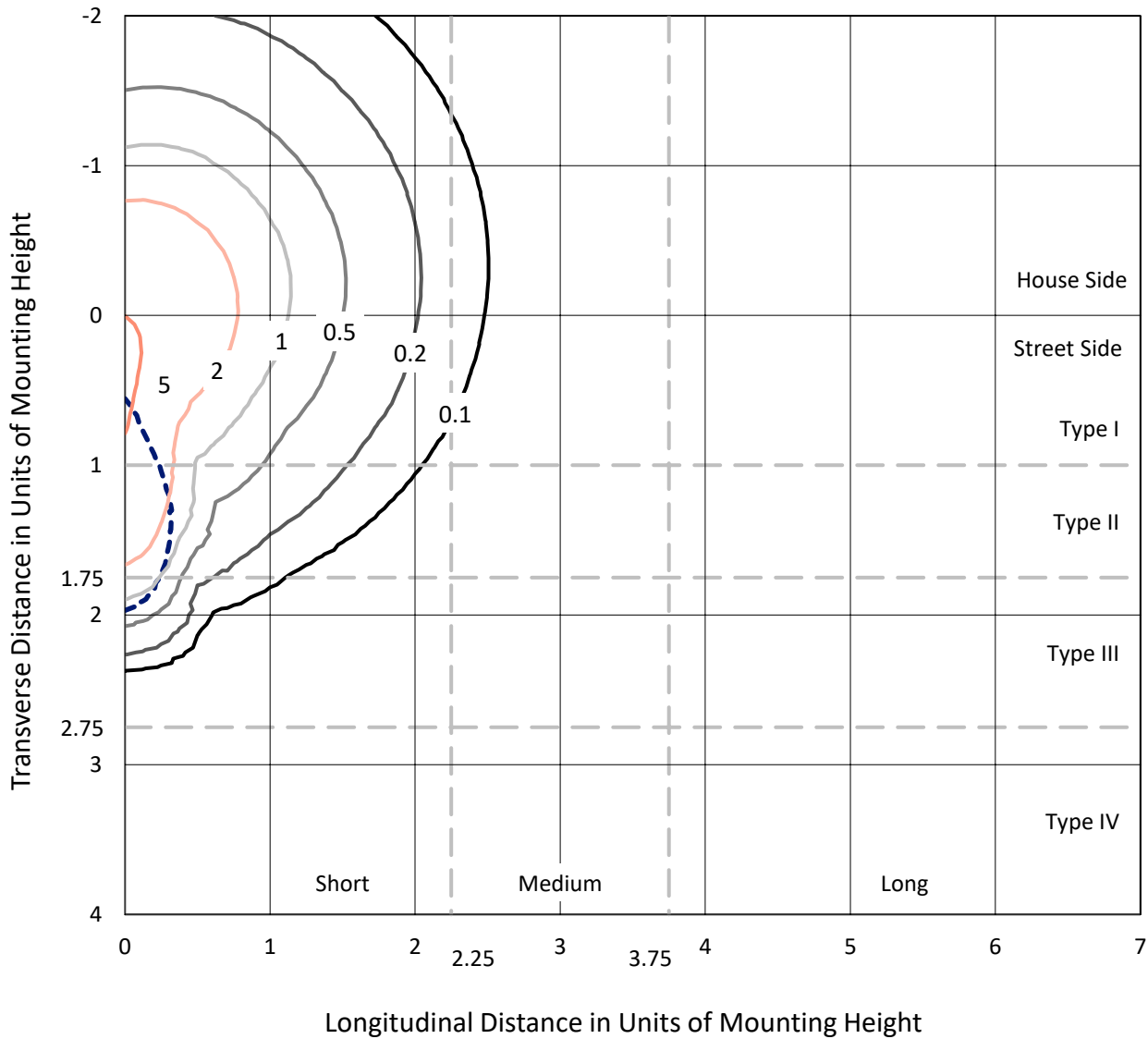
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

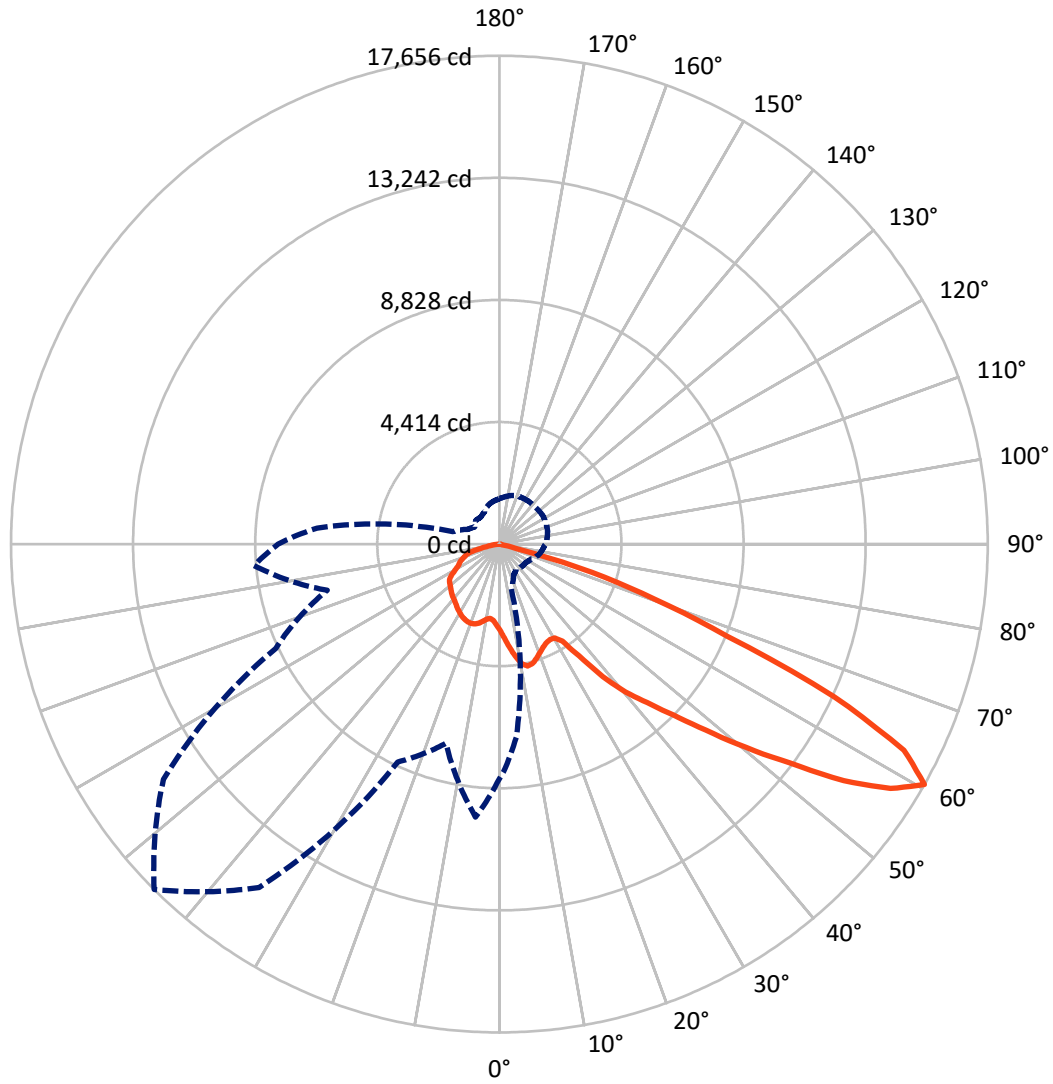
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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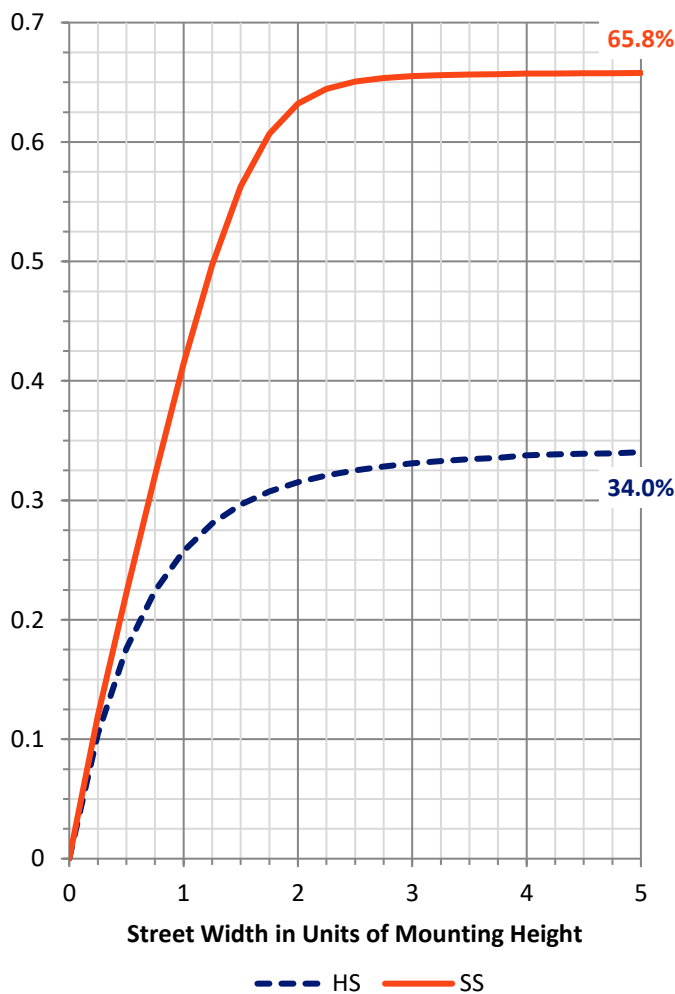
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5287.3 | 0.0 | 5287.3 |
| | % Fixture | 34.2 | 0.0 | 34.2 |
| Street Side | Lumens | 10168.5 | 0.0 | 10168.5 |
| | % Fixture | 65.8 | 0.0 | 65.8 |
| Total | Lumens | 15455.8 | 0.0 | 15455.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 304.6 | 2.0 |
| 10°-20° | 976.9 | 6.3 |
| 20°-30° | 1590.9 | 10.3 |
| 30°-40° | 2234.9 | 14.5 |
| 40°-50° | 3058.2 | 19.8 |
| 50°-60° | 3923.5 | 25.4 |
| 60°-70° | 2641.9 | 17.1 |
| 70°-80° | 660.5 | 4.3 |
| 80°-90° | 64.4 | 0.4 |
| 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° | 15455.8 | 100.0 |
| 0°-180° | 15455.8 | 100.0 |

Coefficient of Utilization



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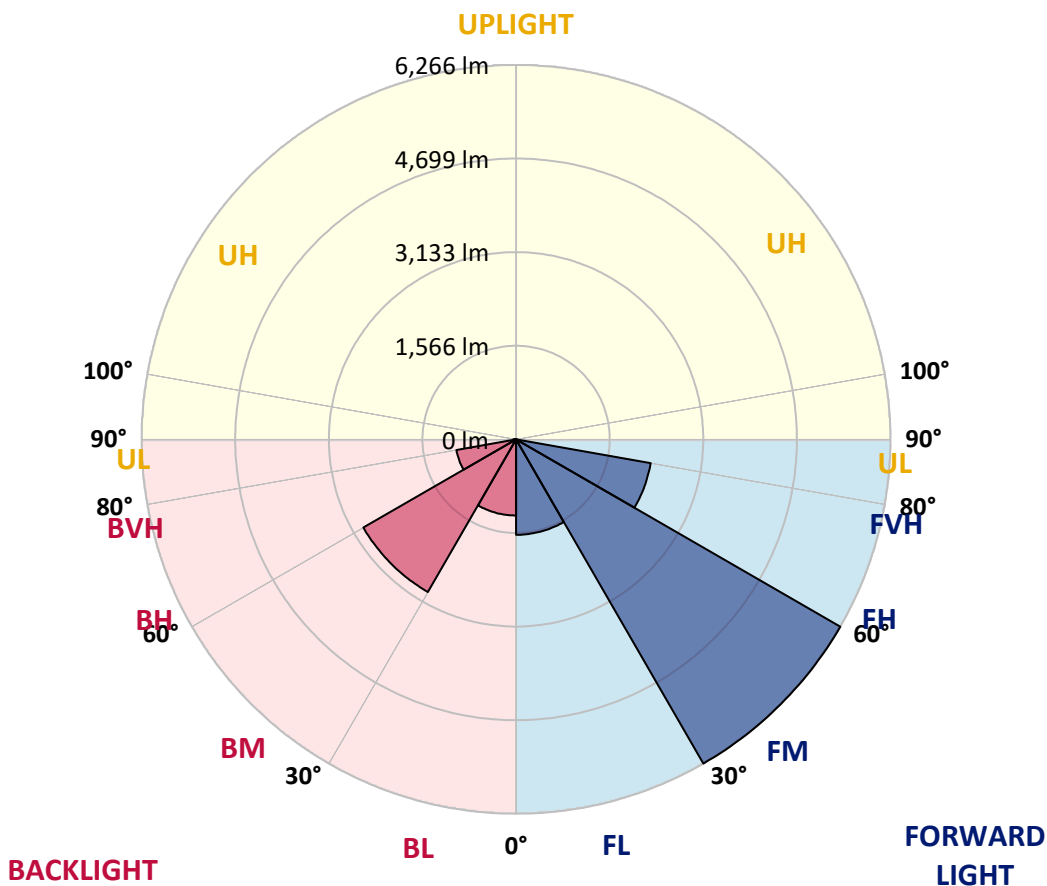
CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1597.8 | 10.3 | | | |
| FM (30°-60°) | 6265.9 | 40.5 | | | |
| FH (60°-80°) | 2288.1 | 14.8 | | | G2/5000 |
| FVH (80°-90°) | 16.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1274.6 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 2950.7 | 19.1 | B3/5000 | | |
| BH (60°-80°) | 1014.3 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 47.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 |
| 2.5° | 3298.0 | 3290.9 | 3283.8 | 3228.3 | 3214.1 | 3174.2 | 3145.7 | 3110.2 | 3058.9 | 3030.4 | 3006.2 |
| 5° | 3504.4 | 3493.1 | 3454.6 | 3340.7 | 3266.7 | 3185.6 | 3118.7 | 3044.7 | 2966.4 | 2915.1 | 2875.3 |
| 7.5° | 3699.4 | 3696.6 | 3631.1 | 3443.2 | 3323.7 | 3206.9 | 3115.8 | 3007.7 | 2895.2 | 2818.4 | 2767.1 |
| 10° | 3880.2 | 3858.9 | 3780.6 | 3535.8 | 3379.2 | 3245.4 | 3147.2 | 3027.6 | 2896.6 | 2792.7 | 2724.4 |
| 12.5° | 4039.6 | 4012.6 | 3904.4 | 3621.2 | 3427.6 | 3262.5 | 3155.7 | 3057.5 | 2970.7 | 2883.8 | 2805.5 |
| 15° | 4170.6 | 4137.9 | 4028.3 | 3700.9 | 3470.3 | 3252.5 | 3103.0 | 3026.2 | 3056.1 | 3094.5 | 3007.7 |
| 17.5° | 4293.0 | 4258.8 | 4125.0 | 3759.2 | 3483.1 | 3191.3 | 2973.5 | 2940.8 | 3091.6 | 3266.7 | 3226.9 |
| 20° | 4395.5 | 4357.1 | 4201.9 | 3787.7 | 3460.3 | 3074.6 | 2805.5 | 2862.5 | 3061.8 | 3271.0 | 3335.1 |
| 22.5° | 4506.5 | 4475.2 | 4288.7 | 3829.0 | 3431.8 | 2913.7 | 2664.6 | 2804.1 | 3010.5 | 3194.1 | 3290.9 |
| 25° | 4684.4 | 4646.0 | 4424.0 | 3901.6 | 3417.6 | 2762.8 | 2563.6 | 2747.2 | 2939.3 | 3105.9 | 3181.3 |
| 27.5° | 4942.1 | 4870.9 | 4609.0 | 4028.3 | 3433.3 | 2620.5 | 2499.5 | 2677.4 | 2856.8 | 2999.1 | 3060.3 |
| 30° | 5222.5 | 5137.1 | 4814.0 | 4159.2 | 3456.0 | 2533.7 | 2465.3 | 2597.7 | 2730.1 | 2872.4 | 2939.3 |
| 32.5° | 5554.2 | 5478.7 | 5033.2 | 4257.4 | 3407.6 | 2493.8 | 2439.7 | 2510.9 | 2616.2 | 2730.1 | 2785.6 |
| 35° | 5949.9 | 5814.6 | 5272.3 | 4337.1 | 3251.1 | 2435.5 | 2417.0 | 2415.5 | 2471.0 | 2582.1 | 2644.7 |
| 37.5° | 6375.5 | 6230.3 | 5567.0 | 4422.5 | 3007.7 | 2342.9 | 2362.9 | 2303.1 | 2354.3 | 2442.6 | 2513.7 |
| 40° | 6724.2 | 6571.9 | 5864.5 | 4539.3 | 2703.1 | 2197.7 | 2243.3 | 2179.2 | 2210.6 | 2301.7 | 2381.4 |
| 42.5° | 7065.8 | 6903.5 | 6142.0 | 4671.6 | 2408.4 | 2055.4 | 2078.2 | 2054.0 | 2063.9 | 2159.3 | 2270.3 |
| 45° | 7514.2 | 7332.0 | 6483.6 | 4765.6 | 2143.7 | 1943.0 | 1921.6 | 1880.3 | 1933.0 | 2056.8 | 2175.0 |
| 47.5° | 8262.9 | 8045.1 | 7043.0 | 4826.8 | 1951.5 | 1878.9 | 1780.7 | 1756.5 | 1822.0 | 1960.0 | 2082.5 |
| 50° | 9138.3 | 8950.4 | 7936.9 | 4823.9 | 1807.7 | 1824.8 | 1644.0 | 1622.7 | 1730.9 | 1870.4 | 1999.9 |
| 52.5° | 9855.7 | 9665.0 | 8701.3 | 4681.6 | 1689.6 | 1709.5 | 1564.3 | 1504.5 | 1652.6 | 1782.1 | 1911.6 |
| 55° | 10435.0 | 10220.1 | 9052.9 | 4086.6 | 1540.1 | 1525.9 | 1477.5 | 1367.9 | 1554.4 | 1693.9 | 1814.8 |
| 57.5° | 10123.3 | 9867.1 | 8627.3 | 3107.3 | 1386.4 | 1296.7 | 1328.0 | 1246.9 | 1420.6 | 1595.6 | 1712.4 |
| 60° | 8487.8 | 8257.2 | 7008.9 | 1654.0 | 1219.9 | 1083.2 | 1148.7 | 1161.5 | 1274.0 | 1477.5 | 1597.1 |
| 62.5° | 5830.3 | 5662.3 | 4749.9 | 1003.5 | 962.2 | 869.7 | 972.2 | 1064.7 | 1148.7 | 1320.9 | 1424.8 |
| 65° | 2852.5 | 2802.7 | 2375.7 | 643.4 | 673.3 | 703.2 | 805.7 | 918.1 | 1041.9 | 1192.8 | 1302.4 |
| 67.5° | 785.7 | 791.4 | 720.2 | 502.5 | 530.9 | 613.5 | 694.6 | 784.3 | 908.1 | 1047.6 | 1158.7 |
| 70° | 345.9 | 351.6 | 363.0 | 387.2 | 441.3 | 516.7 | 600.7 | 693.2 | 807.1 | 923.8 | 1030.5 |
| 72.5° | 240.6 | 246.3 | 263.3 | 294.6 | 343.0 | 414.2 | 493.9 | 582.2 | 700.3 | 798.5 | 886.8 |
| 75° | 148.0 | 152.3 | 168.0 | 195.0 | 227.7 | 281.8 | 360.1 | 441.3 | 545.2 | 634.8 | 713.1 |
| 77.5° | 78.3 | 75.4 | 85.4 | 103.9 | 132.4 | 160.8 | 213.5 | 264.8 | 338.8 | 411.4 | 476.8 |
| 80° | 42.7 | 41.3 | 47.0 | 56.9 | 65.5 | 88.3 | 123.8 | 158.0 | 200.7 | 242.0 | 277.6 |
| 82.5° | 18.5 | 17.1 | 18.5 | 24.2 | 29.9 | 42.7 | 62.6 | 86.8 | 111.0 | 139.5 | 162.3 |
| 85° | 0.0 | 0.0 | 0.0 | 1.4 | 7.1 | 11.4 | 21.4 | 31.3 | 45.5 | 62.6 | 76.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 12.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 |
| 2.5° | 2992.0 | 2956.4 | 2953.6 | 2925.1 | 2928.0 | 2929.4 | 2900.9 | 2889.5 | 2899.5 | 2910.9 | 2905.2 |
| 5° | 2861.1 | 2824.0 | 2808.4 | 2781.3 | 2778.5 | 2765.7 | 2754.3 | 2740.1 | 2750.0 | 2760.0 | 2765.7 |
| 7.5° | 2747.2 | 2723.0 | 2713.0 | 2705.9 | 2708.8 | 2703.1 | 2680.3 | 2667.5 | 2666.0 | 2670.3 | 2676.0 |
| 10° | 2710.2 | 2690.2 | 2703.1 | 2723.0 | 2737.2 | 2747.2 | 2723.0 | 2701.6 | 2681.7 | 2673.2 | 2673.2 |
| 12.5° | 2789.9 | 2764.3 | 2789.9 | 2811.2 | 2839.7 | 2846.8 | 2819.8 | 2797.0 | 2789.9 | 2798.4 | 2815.5 |
| 15° | 2966.4 | 2906.6 | 2905.2 | 2918.0 | 2940.8 | 2952.2 | 2926.5 | 2915.1 | 2915.1 | 2969.2 | 3011.9 |
| 17.5° | 3142.9 | 3044.7 | 3003.4 | 2996.3 | 3010.5 | 3014.8 | 2993.4 | 2983.5 | 3009.1 | 3114.4 | 3194.1 |
| 20° | 3266.7 | 3147.2 | 3057.5 | 3040.4 | 3044.7 | 3046.1 | 3029.0 | 3021.9 | 3058.9 | 3187.0 | 3253.9 |
| 22.5° | 3253.9 | 3165.7 | 3056.1 | 3034.7 | 3041.8 | 3039.0 | 3023.3 | 3020.5 | 3050.4 | 3161.4 | 3192.7 |
| 25° | 3165.7 | 3097.3 | 3004.8 | 2990.6 | 3002.0 | 3000.6 | 2984.9 | 2977.8 | 2990.6 | 3064.6 | 3067.5 |
| 27.5° | 3064.6 | 3004.8 | 2925.1 | 2920.8 | 2939.3 | 2949.3 | 2922.3 | 2900.9 | 2896.6 | 2946.5 | 2935.1 |
| 30° | 2943.6 | 2899.5 | 2835.4 | 2838.3 | 2872.4 | 2878.1 | 2845.4 | 2814.1 | 2805.5 | 2832.6 | 2816.9 |
| 32.5° | 2799.8 | 2785.6 | 2751.5 | 2758.6 | 2791.3 | 2802.7 | 2768.5 | 2735.8 | 2725.8 | 2734.4 | 2701.6 |
| 35° | 2677.4 | 2671.7 | 2674.6 | 2687.4 | 2715.9 | 2724.4 | 2695.9 | 2670.3 | 2656.1 | 2626.2 | 2583.5 |
| 37.5° | 2550.8 | 2566.4 | 2607.7 | 2631.9 | 2647.5 | 2644.7 | 2629.0 | 2610.5 | 2587.8 | 2532.2 | 2479.6 |
| 40° | 2432.6 | 2472.5 | 2546.5 | 2573.5 | 2579.2 | 2580.6 | 2569.3 | 2553.6 | 2525.1 | 2451.1 | 2391.3 |
| 42.5° | 2341.5 | 2385.6 | 2483.9 | 2525.1 | 2528.0 | 2530.8 | 2519.4 | 2506.6 | 2466.8 | 2368.6 | 2310.2 |
| 45° | 2246.1 | 2304.5 | 2419.8 | 2469.6 | 2466.8 | 2465.3 | 2455.4 | 2449.7 | 2402.7 | 2288.8 | 2224.8 |
| 47.5° | 2165.0 | 2233.3 | 2357.2 | 2399.9 | 2398.4 | 2397.0 | 2389.9 | 2389.9 | 2342.9 | 2219.1 | 2146.5 |
| 50° | 2085.3 | 2163.6 | 2293.1 | 2328.7 | 2331.5 | 2328.7 | 2325.9 | 2330.1 | 2274.6 | 2142.2 | 2071.1 |
| 52.5° | 1998.5 | 2086.7 | 2221.9 | 2254.7 | 2271.8 | 2278.9 | 2278.9 | 2268.9 | 2203.4 | 2065.4 | 1987.1 |
| 55° | 1903.1 | 1987.1 | 2143.7 | 2187.8 | 2202.0 | 2214.8 | 2214.8 | 2194.9 | 2133.7 | 1994.2 | 1910.2 |
| 57.5° | 1785.0 | 1859.0 | 1982.8 | 2026.9 | 2061.1 | 2069.6 | 2069.6 | 2036.9 | 1987.1 | 1853.3 | 1785.0 |
| 60° | 1656.9 | 1720.9 | 1804.9 | 1851.9 | 1877.5 | 1860.4 | 1873.2 | 1864.7 | 1824.8 | 1701.0 | 1644.0 |
| 62.5° | 1486.0 | 1551.5 | 1644.0 | 1692.4 | 1703.8 | 1686.7 | 1703.8 | 1702.4 | 1648.3 | 1537.3 | 1469.0 |
| 65° | 1363.6 | 1427.7 | 1518.8 | 1581.4 | 1599.9 | 1595.6 | 1607.0 | 1590.0 | 1523.1 | 1417.7 | 1352.2 |
| 67.5° | 1218.4 | 1286.8 | 1392.1 | 1461.8 | 1500.3 | 1504.5 | 1520.2 | 1484.6 | 1416.3 | 1301.0 | 1218.4 |
| 70° | 1080.4 | 1138.7 | 1219.9 | 1285.3 | 1339.4 | 1366.5 | 1369.3 | 1318.1 | 1232.7 | 1137.3 | 1077.5 |
| 72.5° | 935.2 | 995.0 | 1093.2 | 1164.4 | 1232.7 | 1264.0 | 1264.0 | 1201.4 | 1108.8 | 1003.5 | 939.5 |
| 75° | 758.7 | 814.2 | 903.9 | 980.7 | 1059.0 | 1098.9 | 1097.5 | 1043.4 | 940.9 | 841.2 | 774.3 |
| 77.5° | 513.9 | 555.1 | 612.1 | 670.4 | 681.8 | 713.1 | 728.8 | 660.5 | 603.5 | 549.4 | 489.7 |
| 80° | 298.9 | 324.5 | 355.9 | 388.6 | 395.7 | 405.7 | 380.1 | 354.4 | 324.5 | 289.0 | 261.9 |
| 82.5° | 175.1 | 192.2 | 207.8 | 233.4 | 237.7 | 240.6 | 217.8 | 206.4 | 182.2 | 160.8 | 143.8 |
| 85° | 85.4 | 91.1 | 105.3 | 118.1 | 112.4 | 109.6 | 99.6 | 88.3 | 78.3 | 69.7 | 61.2 |
| 87.5° | 17.1 | 17.1 | 25.6 | 24.2 | 19.9 | 17.1 | 10.0 | 12.8 | 2.8 | 2.8 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 |
| 2.5° | 2923.7 | 2947.9 | 2977.8 | 3017.6 | 3063.2 | 3111.6 | 3158.5 | 3194.1 | 3229.7 | 3282.4 | 3273.8 |
| 5° | 2774.2 | 2815.5 | 2862.5 | 2923.7 | 2997.7 | 3081.7 | 3175.6 | 3269.6 | 3370.6 | 3456.0 | 3493.1 |
| 7.5° | 2687.4 | 2732.9 | 2788.5 | 2868.2 | 2963.5 | 3066.0 | 3198.4 | 3350.7 | 3514.4 | 3626.9 | 3696.6 |
| 10° | 2687.4 | 2745.8 | 2818.4 | 2895.2 | 2979.2 | 3084.5 | 3248.2 | 3439.0 | 3649.6 | 3797.7 | 3878.8 |
| 12.5° | 2842.6 | 2900.9 | 2916.6 | 2913.7 | 2960.7 | 3077.4 | 3288.1 | 3531.5 | 3783.4 | 3940.0 | 4039.6 |
| 15° | 3084.5 | 3104.5 | 2986.3 | 2878.1 | 2885.3 | 3026.2 | 3306.6 | 3605.5 | 3898.7 | 4086.6 | 4194.8 |
| 17.5° | 3246.8 | 3194.1 | 2983.5 | 2794.2 | 2754.3 | 2939.3 | 3306.6 | 3676.7 | 4021.1 | 4233.2 | 4334.3 |
| 20° | 3259.6 | 3128.7 | 2910.9 | 2713.0 | 2610.5 | 2824.0 | 3283.8 | 3730.8 | 4139.3 | 4374.1 | 4482.3 |
| 22.5° | 3147.2 | 3017.6 | 2834.0 | 2643.3 | 2492.4 | 2684.6 | 3246.8 | 3772.0 | 4240.3 | 4506.5 | 4640.3 |
| 25° | 3019.1 | 2910.9 | 2755.7 | 2572.1 | 2411.3 | 2543.6 | 3212.6 | 3841.8 | 4381.3 | 4685.9 | 4821.1 |
| 27.5° | 2893.8 | 2802.7 | 2661.8 | 2512.3 | 2365.7 | 2421.2 | 3191.3 | 3944.3 | 4549.2 | 4940.7 | 5057.4 |
| 30° | 2771.4 | 2688.8 | 2560.7 | 2455.4 | 2341.5 | 2341.5 | 3172.8 | 4062.4 | 4771.3 | 5226.8 | 5343.5 |
| 32.5° | 2647.5 | 2569.3 | 2465.3 | 2399.9 | 2327.3 | 2310.2 | 3121.5 | 4173.4 | 5000.4 | 5539.9 | 5659.5 |
| 35° | 2532.2 | 2454.0 | 2374.2 | 2347.2 | 2320.2 | 2286.0 | 2994.9 | 4260.3 | 5223.9 | 5905.7 | 6008.2 |
| 37.5° | 2424.1 | 2348.6 | 2288.8 | 2281.7 | 2284.6 | 2220.5 | 2795.6 | 4332.9 | 5502.9 | 6280.1 | 6334.2 |
| 40° | 2330.1 | 2246.1 | 2199.2 | 2197.7 | 2212.0 | 2115.2 | 2543.6 | 4436.8 | 5821.8 | 6597.5 | 6574.7 |
| 42.5° | 2246.1 | 2157.9 | 2101.0 | 2113.8 | 2105.2 | 2009.9 | 2297.4 | 4532.1 | 6099.3 | 6895.0 | 6849.5 |
| 45° | 2163.6 | 2078.2 | 1998.5 | 2017.0 | 2007.0 | 1944.4 | 2088.1 | 4601.9 | 6406.8 | 7252.3 | 7258.0 |
| 47.5° | 2083.9 | 1999.9 | 1920.2 | 1897.4 | 1896.0 | 1924.5 | 1927.3 | 4624.7 | 6907.8 | 7827.3 | 7697.8 |
| 50° | 2009.9 | 1925.9 | 1843.3 | 1766.5 | 1796.3 | 1884.6 | 1807.7 | 4607.6 | 7658.0 | 8462.2 | 8100.6 |
| 52.5° | 1933.0 | 1853.3 | 1762.2 | 1624.1 | 1702.4 | 1789.2 | 1701.0 | 4546.4 | 8116.3 | 9023.0 | 8806.6 |
| 55° | 1844.7 | 1769.3 | 1645.5 | 1477.5 | 1572.9 | 1591.4 | 1591.4 | 3954.2 | 8311.3 | 9578.1 | 9711.9 |
| 57.5° | 1726.6 | 1627.0 | 1430.5 | 1295.3 | 1380.7 | 1309.5 | 1474.7 | 2767.1 | 7989.6 | 9403.1 | 9922.6 |
| 60° | 1592.8 | 1486.0 | 1278.2 | 1181.4 | 1207.1 | 1081.8 | 1256.9 | 1735.1 | 6621.7 | 8001.0 | 8900.6 |
| 62.5° | 1416.3 | 1318.1 | 1145.8 | 1070.4 | 1017.7 | 882.5 | 1012.0 | 1097.5 | 4539.3 | 5941.3 | 6554.8 |
| 65° | 1298.2 | 1190.0 | 1036.2 | 936.6 | 828.4 | 710.3 | 671.9 | 720.2 | 2441.2 | 3325.1 | 3739.3 |
| 67.5° | 1158.7 | 1051.9 | 906.7 | 781.5 | 694.6 | 609.2 | 542.3 | 525.2 | 837.0 | 1107.4 | 1198.5 |
| 70° | 1026.3 | 923.8 | 802.8 | 686.1 | 599.3 | 515.3 | 449.8 | 402.8 | 387.2 | 384.3 | 378.6 |
| 72.5° | 891.1 | 795.7 | 694.6 | 586.4 | 491.1 | 414.2 | 355.9 | 301.8 | 279.0 | 271.9 | 264.8 |
| 75° | 730.2 | 654.8 | 553.7 | 437.0 | 360.1 | 289.0 | 243.4 | 207.8 | 187.9 | 180.8 | 172.2 |
| 77.5° | 469.7 | 435.6 | 347.3 | 281.8 | 217.8 | 172.2 | 148.0 | 125.3 | 112.4 | 109.6 | 102.5 |
| 80° | 250.5 | 233.4 | 192.2 | 162.3 | 129.5 | 105.3 | 92.5 | 79.7 | 72.6 | 69.7 | 66.9 |
| 82.5° | 139.5 | 126.7 | 106.8 | 93.9 | 75.4 | 64.1 | 56.9 | 51.2 | 47.0 | 45.5 | 44.1 |
| 85° | 62.6 | 54.1 | 42.7 | 39.9 | 35.6 | 32.7 | 31.3 | 28.5 | 27.0 | 25.6 | 24.2 |
| 87.5° | 2.8 | 5.7 | 7.1 | 5.7 | 5.7 | 8.5 | 10.0 | 10.0 | 8.5 | 8.5 | 7.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P637325

CATALOG NUMBER: GWS-SA4C-750-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|---------|---------|---------|--------|--------|---------|---------|---------|
| 0° | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 | 3117.3 |
| 2.5° | 3326.5 | 3369.2 | 3373.5 | 3387.7 | 3369.2 | 3364.9 | 3335.1 | 3318.0 | 3302.3 | 3298.0 |
| 5° | 3585.6 | 3671.0 | 3705.1 | 3729.3 | 3706.6 | 3695.2 | 3629.7 | 3561.4 | 3522.9 | 3504.4 |
| 7.5° | 3851.8 | 3979.9 | 4046.8 | 4076.6 | 4079.5 | 4028.3 | 3915.8 | 3787.7 | 3723.6 | 3699.4 |
| 10° | 4089.5 | 4247.5 | 4335.7 | 4392.6 | 4372.7 | 4310.1 | 4156.4 | 3982.7 | 3901.6 | 3880.2 |
| 12.5° | 4266.0 | 4416.8 | 4485.2 | 4522.2 | 4520.8 | 4486.6 | 4341.4 | 4153.5 | 4061.0 | 4039.6 |
| 15° | 4379.8 | 4469.5 | 4473.8 | 4482.3 | 4506.5 | 4552.1 | 4476.6 | 4303.0 | 4200.5 | 4170.6 |
| 17.5° | 4469.5 | 4433.9 | 4367.0 | 4344.3 | 4398.3 | 4525.0 | 4570.6 | 4429.7 | 4318.6 | 4293.0 |
| 20° | 4526.4 | 4347.1 | 4229.0 | 4184.8 | 4247.5 | 4453.9 | 4627.5 | 4543.5 | 4428.2 | 4395.5 |
| 22.5° | 4570.6 | 4266.0 | 4075.2 | 4045.3 | 4110.8 | 4377.0 | 4685.9 | 4678.8 | 4552.1 | 4506.5 |
| 25° | 4640.3 | 4211.9 | 3967.0 | 3945.7 | 4006.9 | 4340.0 | 4764.2 | 4862.4 | 4749.9 | 4684.4 |
| 27.5° | 4749.9 | 4206.2 | 3911.5 | 3904.4 | 3988.4 | 4372.7 | 4876.6 | 5131.4 | 4990.5 | 4942.1 |
| 30° | 4902.2 | 4260.3 | 3924.3 | 3938.6 | 4041.1 | 4490.9 | 5051.7 | 5438.9 | 5297.9 | 5222.5 |
| 32.5° | 5121.4 | 4405.5 | 4119.4 | 4180.6 | 4256.0 | 4680.2 | 5307.9 | 5771.9 | 5665.2 | 5554.2 |
| 35° | 5410.4 | 4804.0 | 4695.8 | 4956.3 | 4885.1 | 5094.4 | 5616.8 | 6176.2 | 6046.7 | 5949.9 |
| 37.5° | 5796.1 | 5621.1 | 5720.7 | 6079.4 | 5907.2 | 5877.3 | 5994.0 | 6543.4 | 6472.3 | 6375.5 |
| 40° | 6337.0 | 6372.6 | 6556.2 | 7027.4 | 6778.3 | 6586.1 | 6456.6 | 6819.6 | 6843.8 | 6724.2 |
| 42.5° | 6695.7 | 6859.4 | 7302.1 | 7837.3 | 7494.3 | 7034.5 | 6843.8 | 7172.6 | 7174.0 | 7065.8 |
| 45° | 6829.5 | 7258.0 | 8183.2 | 8799.5 | 8225.9 | 7290.7 | 7057.3 | 7652.3 | 7638.0 | 7514.2 |
| 47.5° | 6781.1 | 7593.9 | 9098.4 | 10040.7 | 9165.3 | 7472.9 | 7027.4 | 8335.5 | 8450.8 | 8262.9 |
| 50° | 6680.1 | 7931.2 | 10167.4 | 11560.9 | 10318.3 | 7666.5 | 6981.8 | 9092.8 | 9283.5 | 9138.3 |
| 52.5° | 6782.6 | 8307.0 | 11431.4 | 13132.4 | 11764.5 | 7975.4 | 7289.3 | 10064.9 | 10030.8 | 9855.7 |
| 55° | 7107.1 | 8751.1 | 12967.3 | 15106.7 | 13353.0 | 8497.8 | 8079.3 | 10991.6 | 10644.3 | 10435.0 |
| 57.5° | 7091.4 | 9068.6 | 14313.8 | 16668.1 | 14735.2 | 8926.2 | 8354.0 | 11089.8 | 10388.1 | 10123.3 |
| 60° | 6436.7 | 8923.4 | 14826.3 | 17656.0 | 15152.2 | 8689.9 | 7450.1 | 9905.5 | 8765.4 | 8487.8 |
| 62.5° | 4804.0 | 7918.4 | 13832.7 | 16419.0 | 13972.2 | 7505.6 | 5602.5 | 7109.9 | 6298.6 | 5830.3 |
| 65° | 3073.1 | 6194.7 | 11629.3 | 13301.8 | 11516.8 | 5740.6 | 3336.5 | 3811.9 | 2986.3 | 2852.5 |
| 67.5° | 1308.1 | 4372.7 | 9040.1 | 8890.6 | 8615.9 | 3719.4 | 1288.2 | 1073.3 | 800.0 | 785.7 |
| 70° | 432.7 | 2974.9 | 5572.7 | 5929.9 | 5145.6 | 2562.1 | 425.6 | 360.1 | 358.7 | 345.9 |
| 72.5° | 283.3 | 1597.1 | 3137.2 | 3493.1 | 3310.9 | 1474.7 | 257.6 | 240.6 | 246.3 | 240.6 |
| 75° | 169.4 | 347.3 | 528.1 | 686.1 | 528.1 | 247.7 | 155.2 | 152.3 | 155.2 | 148.0 |
| 77.5° | 99.6 | 96.8 | 93.9 | 93.9 | 92.5 | 85.4 | 78.3 | 75.4 | 76.9 | 78.3 |
| 80° | 64.1 | 61.2 | 58.4 | 56.9 | 49.8 | 47.0 | 44.1 | 41.3 | 41.3 | 42.7 |
| 82.5° | 41.3 | 38.4 | 35.6 | 31.3 | 25.6 | 21.4 | 19.9 | 17.1 | 17.1 | 18.5 |
| 85° | 21.4 | 17.1 | 12.8 | 10.0 | 5.7 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

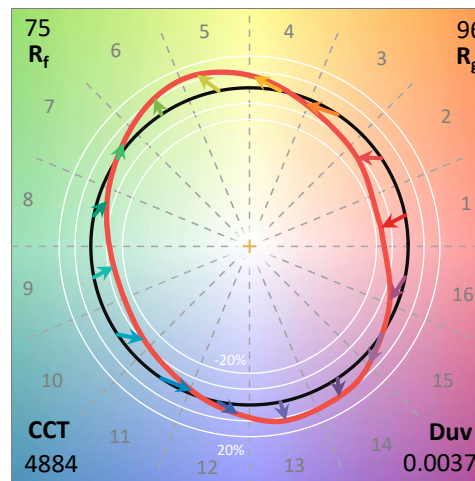
Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-750-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 4884 | CRI (Ra): | 73.5 | R9: | -28.4 |
| CIE u': | 0.2101 | R1: | 70.5 | R10: | 48.6 |
| CIE v': | 0.4904 | R2: | 77.7 | R11: | 73.2 |
| Duv: | 0.0037 | R3: | 84.6 | R12: | 50.7 |
| CIE x: | 0.3493 | R4: | 74.7 | R13: | 71.2 |
| CIE y: | 0.3624 | R5: | 71.9 | R14: | 91.4 |
| CIE z: | 0.2884 | R6: | 70.7 | | |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |
| Rf: | 74.9 | | | | |
| Rg: | 96.3 | | | | |



Test Conditions

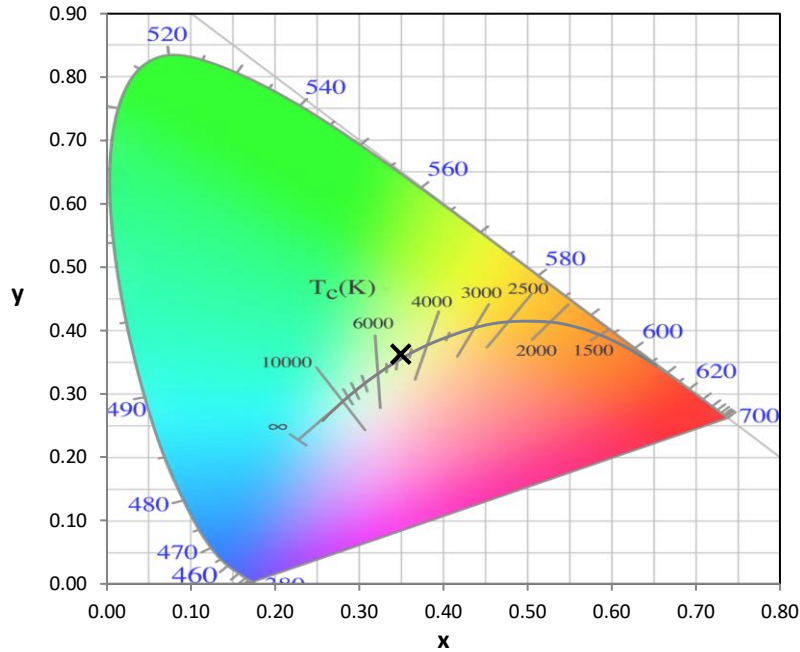
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-4-R4

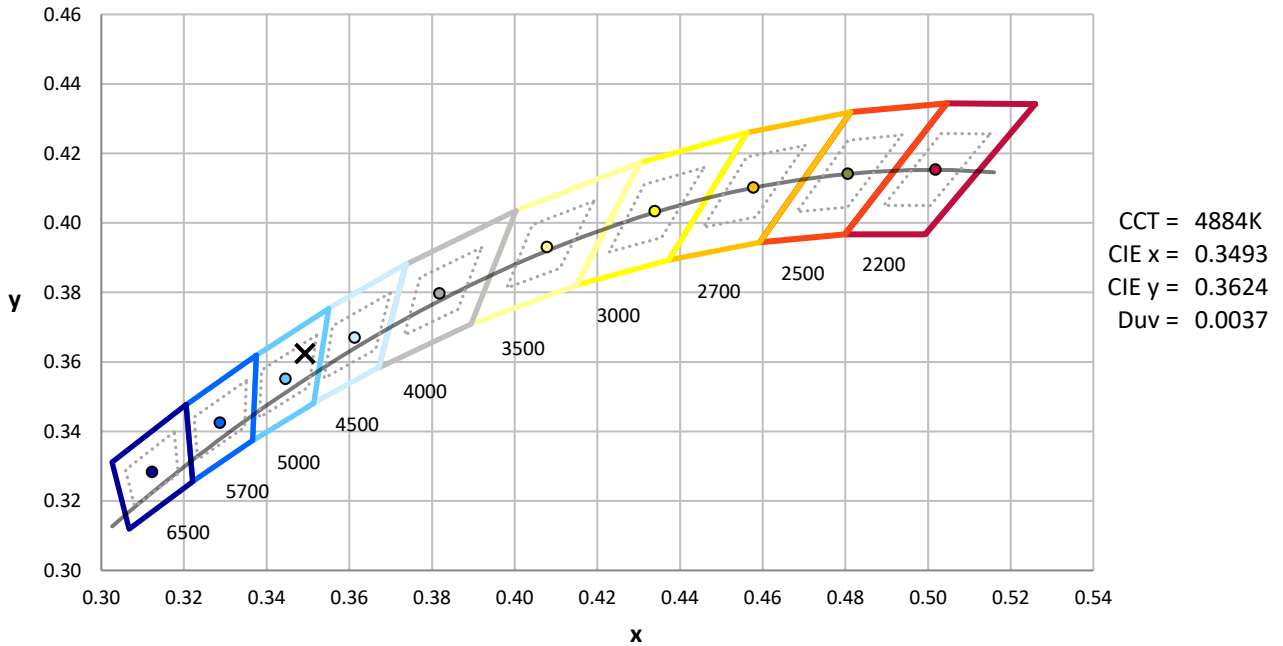
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-4-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-4-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13493.5 S/P: 1.77

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5378.9 M/P: 0.71

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

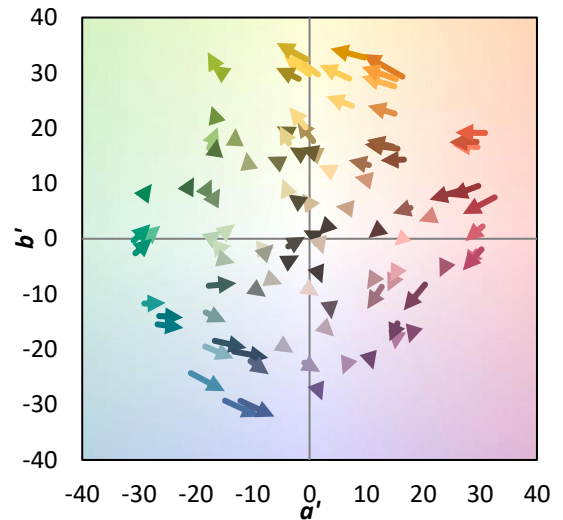
TM-30-18

Summary

$R_f = 74.9$
 $R_g = 96.3$
 CIE $R_a = 73.5$
 $R_g = -28.4$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |



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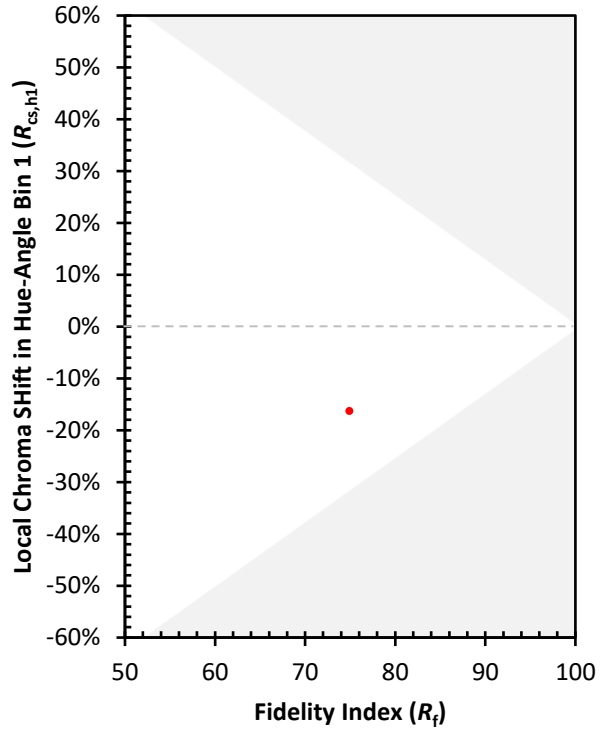
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)