

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: P633699

Luminaire Tested: GWS-SA2F-730-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-730-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11557.9 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

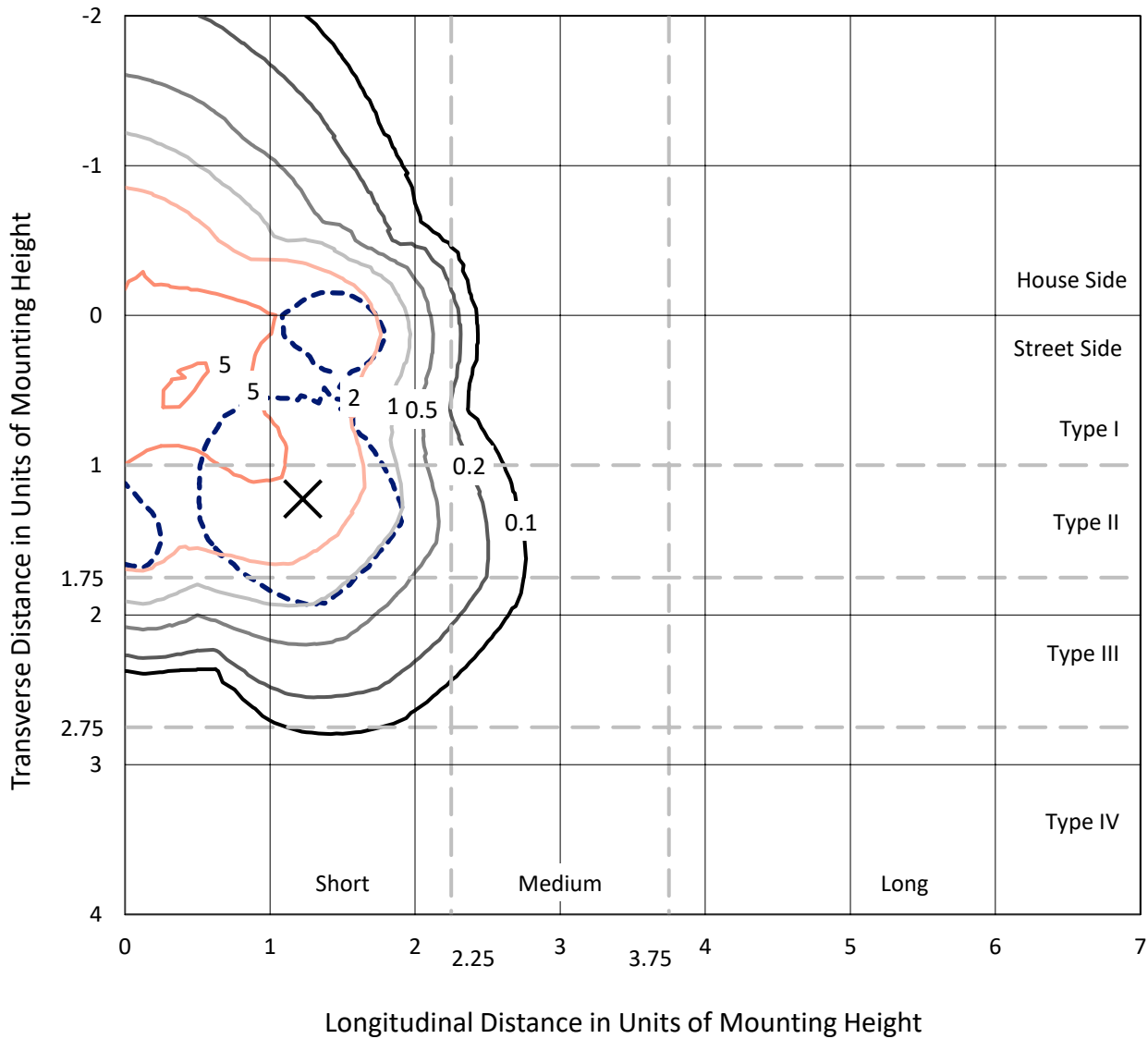
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

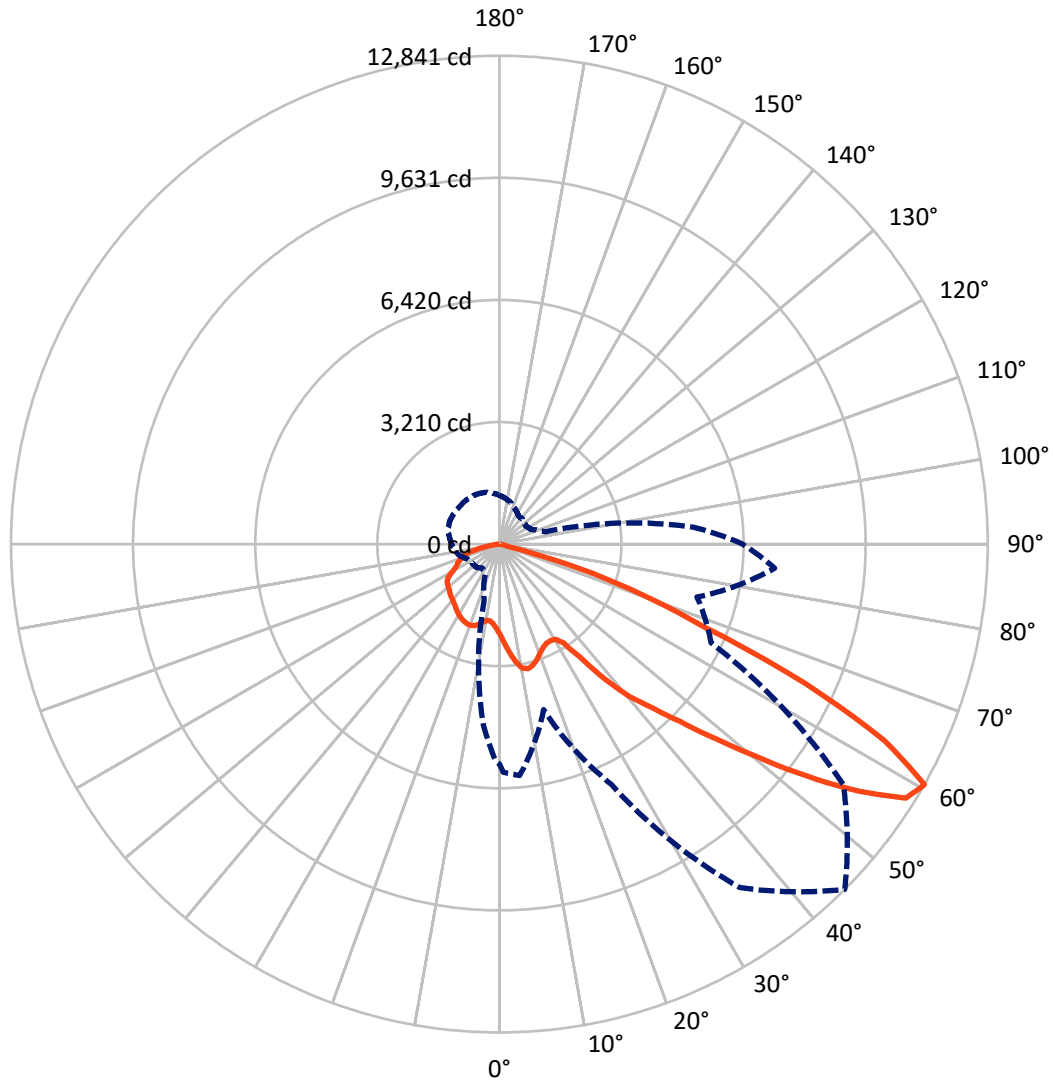
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4051.5 | 0.0 | 4051.5 |
| | % Fixture | 35.1 | 0.0 | 35.1 |
| Street Side | Lumens | 7506.4 | 0.0 | 7506.4 |
| | % Fixture | 64.9 | 0.0 | 64.9 |
| Total | Lumens | 11557.9 | 0.0 | 11557.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 231.7 | 2.0 |
| 10°-20° | 732.0 | 6.3 |
| 20°-30° | 1189.1 | 10.3 |
| 30°-40° | 1677.0 | 14.5 |
| 40°-50° | 2317.5 | 20.1 |
| 50°-60° | 2983.4 | 25.8 |
| 60°-70° | 1890.3 | 16.4 |
| 70°-80° | 485.1 | 4.2 |
| 80°-90° | 51.9 | 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° | 11557.9 | 100.0 |
| 0°-180° | 11557.9 | 100.0 |

Coefficient of Utilization



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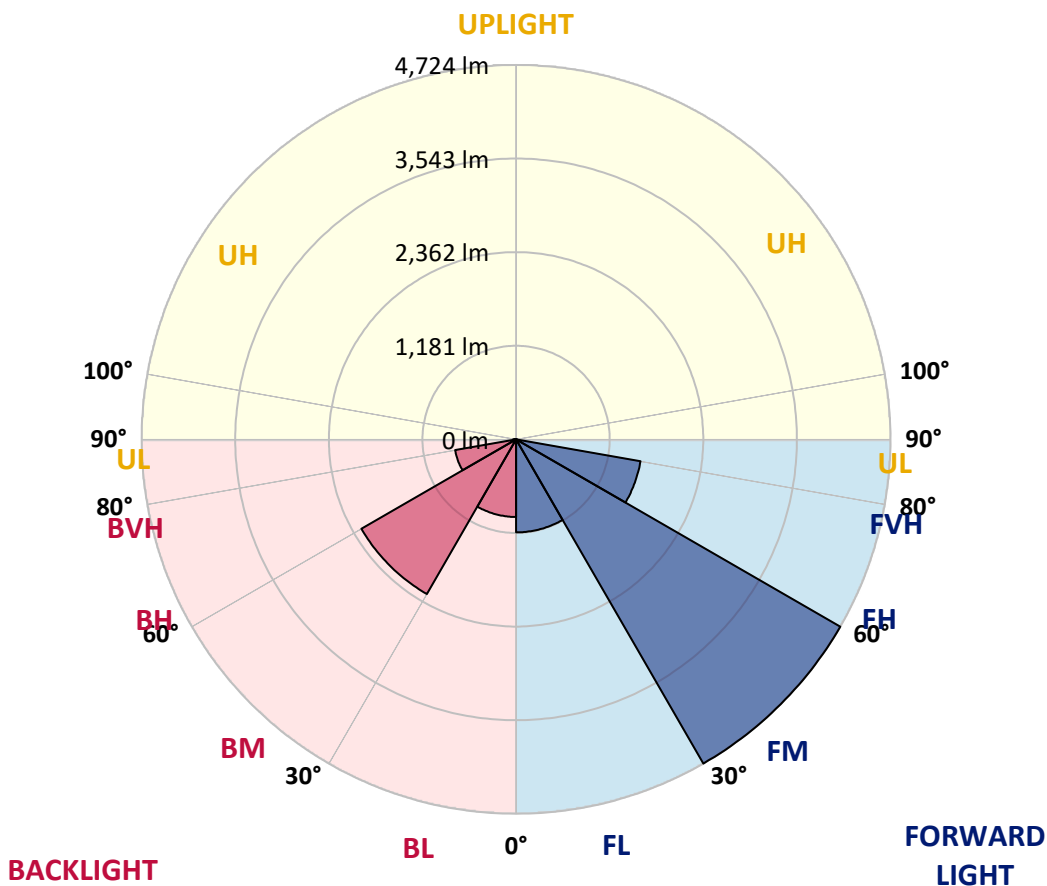
CATALOG NUMBER: GWS-SA2F-730-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1173.6 | 10.2 | | | |
| FM (30°-60°) | 4724.2 | 40.9 | | | |
| FH (60°-80°) | 1594.6 | 13.8 | | | G1/1800 |
| FVH (80°-90°) | 14.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 979.2 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 2253.7 | 19.5 | B2/2500 | | |
| BH (60°-80°) | 780.8 | 6.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 37.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2483.4 | 2500.4 | 2510.9 | 2531.1 | 2567.1 | 2587.2 | 2609.4 | 2585.1 | 2591.4 | 2588.3 | 2549.1 |
| 5° | 2630.6 | 2650.7 | 2678.3 | 2737.6 | 2804.3 | 2841.4 | 2876.3 | 2871.0 | 2838.2 | 2783.1 | 2743.9 |
| 7.5° | 2768.3 | 2791.6 | 2839.2 | 2935.6 | 3034.1 | 3091.3 | 3133.7 | 3106.1 | 3078.6 | 2991.7 | 2893.3 |
| 10° | 2876.3 | 2890.1 | 2954.7 | 3083.9 | 3198.3 | 3262.9 | 3314.7 | 3308.4 | 3270.3 | 3172.8 | 3040.5 |
| 12.5° | 2978.0 | 2987.5 | 3057.4 | 3186.6 | 3289.3 | 3317.9 | 3360.3 | 3374.0 | 3361.3 | 3288.3 | 3158.0 |
| 15° | 3087.1 | 3105.1 | 3169.7 | 3268.1 | 3314.7 | 3285.1 | 3299.9 | 3338.0 | 3374.0 | 3374.0 | 3254.4 |
| 17.5° | 3188.7 | 3204.6 | 3270.3 | 3312.6 | 3268.1 | 3189.8 | 3194.0 | 3242.7 | 3328.5 | 3418.5 | 3342.3 |
| 20° | 3278.7 | 3293.6 | 3358.2 | 3317.9 | 3177.1 | 3062.7 | 3059.5 | 3118.8 | 3257.6 | 3447.1 | 3436.5 |
| 22.5° | 3377.2 | 3398.4 | 3452.4 | 3322.2 | 3092.3 | 2947.3 | 2946.2 | 3007.6 | 3195.1 | 3475.7 | 3544.6 |
| 25° | 3517.0 | 3549.8 | 3577.4 | 3359.2 | 3046.8 | 2872.1 | 2885.8 | 2944.1 | 3175.0 | 3522.3 | 3704.5 |
| 27.5° | 3724.6 | 3751.1 | 3748.9 | 3436.5 | 3044.7 | 2841.4 | 2870.0 | 2937.7 | 3211.0 | 3604.9 | 3872.9 |
| 30° | 3949.1 | 3962.9 | 3940.6 | 3544.6 | 3093.4 | 2860.4 | 2902.8 | 2983.3 | 3302.0 | 3741.5 | 4120.7 |
| 32.5° | 4198.0 | 4214.9 | 4172.6 | 3706.6 | 3206.7 | 3001.3 | 3094.5 | 3133.7 | 3430.2 | 3938.5 | 4383.3 |
| 35° | 4483.9 | 4516.7 | 4428.8 | 3920.5 | 3540.3 | 3514.9 | 3650.5 | 3599.6 | 3702.3 | 4171.5 | 4663.9 |
| 37.5° | 4784.7 | 4785.7 | 4659.7 | 4237.2 | 4194.8 | 4238.2 | 4509.3 | 4350.5 | 4279.5 | 4431.0 | 4949.9 |
| 40° | 5039.9 | 5033.5 | 4839.7 | 4663.9 | 4764.5 | 4937.2 | 5264.4 | 5020.8 | 4834.4 | 4779.4 | 5187.1 |
| 42.5° | 5295.1 | 5271.8 | 5075.9 | 4935.1 | 5157.4 | 5512.2 | 5881.8 | 5583.2 | 5190.3 | 5096.0 | 5421.1 |
| 45° | 5621.3 | 5613.9 | 5377.7 | 5043.1 | 5512.2 | 6156.1 | 6646.4 | 6162.5 | 5401.0 | 5280.3 | 5810.9 |
| 47.5° | 6147.6 | 6111.6 | 5672.1 | 5034.6 | 5844.8 | 7013.9 | 7633.4 | 6892.1 | 5548.2 | 5284.5 | 6439.9 |
| 50° | 6662.3 | 6617.8 | 6023.7 | 5033.5 | 6187.9 | 7903.5 | 8798.4 | 7778.5 | 5698.6 | 5309.9 | 7079.6 |
| 52.5° | 7182.3 | 7182.3 | 6600.9 | 5153.2 | 6547.9 | 8896.9 | 10144.4 | 8883.1 | 5954.9 | 5642.5 | 7866.4 |
| 55° | 7491.5 | 7574.1 | 7250.1 | 5355.5 | 6969.4 | 10066.0 | 11475.6 | 10075.6 | 6351.0 | 6242.9 | 8592.9 |
| 57.5° | 7098.6 | 7253.3 | 7206.7 | 5214.6 | 7218.3 | 10924.9 | 12604.5 | 10980.0 | 6546.9 | 6313.9 | 8483.8 |
| 60° | 5784.4 | 5999.4 | 6106.3 | 4503.0 | 6972.6 | 11024.4 | 12840.7 | 11039.3 | 6142.3 | 5376.7 | 7267.0 |
| 62.5° | 3845.3 | 4022.2 | 4185.3 | 3217.3 | 6036.4 | 9917.8 | 11357.0 | 9920.9 | 5129.9 | 4012.6 | 5034.6 |
| 65° | 1886.1 | 2017.4 | 2193.2 | 1902.0 | 4715.8 | 8286.9 | 8854.5 | 8016.8 | 3710.8 | 2246.2 | 2568.1 |
| 67.5° | 493.5 | 530.6 | 554.9 | 738.1 | 3378.3 | 5953.8 | 5774.9 | 5863.8 | 2383.9 | 733.9 | 671.4 |
| 70° | 256.3 | 258.4 | 257.3 | 305.0 | 2283.3 | 3783.9 | 3979.8 | 3682.2 | 1663.7 | 307.1 | 264.8 |
| 72.5° | 183.2 | 184.3 | 181.1 | 205.5 | 1102.4 | 2167.8 | 2246.2 | 2221.8 | 871.6 | 182.2 | 181.1 |
| 75° | 119.7 | 120.7 | 118.6 | 120.7 | 166.3 | 246.8 | 227.7 | 239.3 | 145.1 | 115.4 | 115.4 |
| 77.5° | 71.0 | 72.0 | 71.0 | 73.1 | 71.0 | 71.0 | 65.7 | 65.7 | 62.5 | 62.5 | 63.5 |
| 80° | 47.7 | 47.7 | 46.6 | 48.7 | 44.5 | 44.5 | 42.4 | 41.3 | 38.1 | 37.1 | 37.1 |
| 82.5° | 28.6 | 29.7 | 28.6 | 28.6 | 26.5 | 26.5 | 24.4 | 23.3 | 20.1 | 20.1 | 19.1 |
| 85° | 14.8 | 14.8 | 13.8 | 13.8 | 11.6 | 10.6 | 8.5 | 8.5 | 6.4 | 5.3 | 5.3 |
| 87.5° | 2.1 | 2.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2538.5 | 2517.3 | 2485.5 | 2454.8 | 2426.2 | 2396.6 | 2362.7 | 2327.7 | 2298.1 | 2267.4 | 2251.5 |
| 5° | 2692.0 | 2648.6 | 2566.0 | 2492.9 | 2427.3 | 2373.3 | 2315.0 | 2265.3 | 2218.7 | 2180.5 | 2161.5 |
| 7.5° | 2830.8 | 2763.0 | 2638.0 | 2522.6 | 2433.6 | 2359.5 | 2279.0 | 2204.9 | 2142.4 | 2095.8 | 2077.8 |
| 10° | 2958.9 | 2878.4 | 2714.3 | 2568.1 | 2464.3 | 2381.7 | 2283.3 | 2182.6 | 2100.0 | 2038.6 | 2023.8 |
| 12.5° | 3062.7 | 2970.6 | 2774.6 | 2605.2 | 2482.4 | 2393.4 | 2306.6 | 2219.7 | 2138.2 | 2058.7 | 2046.0 |
| 15° | 3154.8 | 3045.8 | 2820.2 | 2628.5 | 2476.0 | 2362.7 | 2289.6 | 2279.0 | 2279.0 | 2189.0 | 2163.6 |
| 17.5° | 3234.3 | 3114.6 | 2857.2 | 2639.1 | 2435.8 | 2271.6 | 2227.1 | 2319.3 | 2423.0 | 2358.4 | 2301.3 |
| 20° | 3325.3 | 3180.2 | 2888.0 | 2639.1 | 2361.6 | 2156.2 | 2151.9 | 2308.7 | 2462.2 | 2463.3 | 2402.9 |
| 22.5° | 3417.5 | 3256.5 | 2924.0 | 2629.6 | 2260.0 | 2022.7 | 2101.1 | 2266.3 | 2402.9 | 2461.2 | 2419.9 |
| 25° | 3566.8 | 3362.4 | 2981.2 | 2622.1 | 2141.3 | 1931.7 | 2055.6 | 2210.2 | 2325.6 | 2387.0 | 2360.6 |
| 27.5° | 3756.4 | 3502.2 | 3068.0 | 2633.8 | 2023.8 | 1877.6 | 2006.9 | 2137.1 | 2242.0 | 2296.0 | 2276.9 |
| 30° | 3968.2 | 3663.2 | 3161.2 | 2653.9 | 1939.1 | 1850.1 | 1948.6 | 2053.4 | 2146.6 | 2200.7 | 2192.2 |
| 32.5° | 4238.2 | 3837.9 | 3241.7 | 2626.4 | 1891.4 | 1836.3 | 1887.2 | 1962.4 | 2052.4 | 2086.3 | 2093.7 |
| 35° | 4561.2 | 4030.6 | 3303.1 | 2518.4 | 1848.0 | 1821.5 | 1820.5 | 1867.1 | 1930.6 | 1984.6 | 1989.9 |
| 37.5° | 4858.8 | 4256.2 | 3370.9 | 2333.0 | 1769.6 | 1784.5 | 1742.1 | 1769.6 | 1832.1 | 1886.1 | 1907.3 |
| 40° | 5153.2 | 4485.0 | 3465.1 | 2096.9 | 1666.9 | 1701.9 | 1652.1 | 1671.1 | 1720.9 | 1791.9 | 1825.8 |
| 42.5° | 5439.1 | 4691.5 | 3564.7 | 1855.4 | 1564.2 | 1586.4 | 1549.4 | 1568.4 | 1620.3 | 1709.3 | 1747.4 |
| 45° | 5750.5 | 4971.1 | 3642.0 | 1627.7 | 1475.2 | 1465.7 | 1436.0 | 1463.6 | 1541.9 | 1639.4 | 1684.9 |
| 47.5° | 6339.3 | 5411.6 | 3692.8 | 1476.3 | 1427.6 | 1358.7 | 1324.8 | 1384.1 | 1473.1 | 1571.6 | 1626.7 |
| 50° | 7058.4 | 6049.1 | 3678.0 | 1379.9 | 1386.3 | 1248.6 | 1236.9 | 1315.3 | 1410.6 | 1513.3 | 1573.7 |
| 52.5° | 7628.1 | 6675.0 | 3509.6 | 1287.8 | 1305.8 | 1178.7 | 1144.8 | 1259.2 | 1350.3 | 1455.1 | 1517.6 |
| 55° | 8063.4 | 6885.8 | 2992.8 | 1178.7 | 1174.5 | 1127.9 | 1056.9 | 1200.9 | 1289.9 | 1387.3 | 1455.1 |
| 57.5° | 7708.6 | 6416.6 | 2218.7 | 1028.3 | 1002.9 | 1027.3 | 958.4 | 1102.4 | 1215.8 | 1312.1 | 1372.5 |
| 60° | 6397.6 | 5116.1 | 1235.9 | 910.8 | 838.7 | 898.1 | 887.5 | 998.7 | 1135.3 | 1236.9 | 1288.8 |
| 62.5° | 4343.1 | 3406.9 | 732.8 | 720.1 | 679.9 | 764.6 | 820.7 | 893.8 | 1028.3 | 1110.9 | 1159.6 |
| 65° | 2164.6 | 1655.3 | 487.2 | 539.0 | 544.3 | 629.1 | 735.0 | 815.4 | 927.7 | 1012.4 | 1061.1 |
| 67.5° | 628.0 | 514.7 | 370.7 | 412.0 | 469.1 | 536.9 | 621.6 | 717.0 | 826.0 | 926.6 | 983.8 |
| 70° | 271.1 | 274.3 | 294.4 | 343.1 | 399.3 | 469.1 | 553.9 | 647.1 | 739.2 | 816.5 | 859.9 |
| 72.5° | 191.7 | 199.1 | 221.3 | 271.1 | 324.1 | 390.8 | 475.5 | 565.5 | 632.2 | 710.6 | 756.1 |
| 75° | 122.8 | 128.1 | 146.1 | 184.3 | 223.5 | 288.1 | 368.5 | 451.1 | 520.0 | 576.1 | 619.5 |
| 77.5° | 67.8 | 68.8 | 83.7 | 105.9 | 132.4 | 173.7 | 233.0 | 297.6 | 348.4 | 380.2 | 419.4 |
| 80° | 39.2 | 39.2 | 46.6 | 60.4 | 76.2 | 101.7 | 134.5 | 166.3 | 197.0 | 217.1 | 236.2 |
| 82.5° | 21.2 | 21.2 | 24.4 | 32.8 | 41.3 | 56.1 | 75.2 | 91.1 | 110.1 | 120.7 | 133.4 |
| 85° | 6.4 | 6.4 | 8.5 | 11.6 | 14.8 | 21.2 | 29.7 | 38.1 | 46.6 | 54.0 | 61.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2248.3 | 2233.5 | 2225.0 | 2214.4 | 2217.6 | 2208.1 | 2202.8 | 2205.9 | 2186.9 | 2205.9 | 2225.0 |
| 5° | 2154.1 | 2132.9 | 2115.9 | 2102.2 | 2095.8 | 2083.1 | 2075.7 | 2075.7 | 2064.0 | 2083.1 | 2106.4 |
| 7.5° | 2071.5 | 2054.5 | 2046.0 | 2037.6 | 2028.0 | 2016.4 | 2003.7 | 1999.4 | 1992.0 | 2012.1 | 2032.3 |
| 10° | 2016.4 | 2018.5 | 2023.8 | 2035.4 | 2033.3 | 2025.9 | 2006.9 | 1996.3 | 1996.3 | 2019.6 | 2050.3 |
| 12.5° | 2041.8 | 2064.0 | 2076.7 | 2097.9 | 2102.2 | 2095.8 | 2076.7 | 2068.3 | 2089.5 | 2124.4 | 2175.2 |
| 15° | 2140.3 | 2155.1 | 2165.7 | 2182.6 | 2181.6 | 2176.3 | 2161.5 | 2167.8 | 2237.7 | 2305.5 | 2351.0 |
| 17.5° | 2247.2 | 2230.3 | 2228.2 | 2238.8 | 2242.0 | 2235.6 | 2227.1 | 2255.7 | 2371.2 | 2434.7 | 2458.0 |
| 20° | 2324.6 | 2266.3 | 2253.6 | 2257.8 | 2266.3 | 2263.1 | 2263.1 | 2309.7 | 2429.4 | 2459.1 | 2429.4 |
| 22.5° | 2347.9 | 2265.3 | 2246.2 | 2247.2 | 2258.9 | 2260.0 | 2265.3 | 2314.0 | 2383.9 | 2384.9 | 2339.4 |
| 25° | 2310.8 | 2231.4 | 2217.6 | 2219.7 | 2233.5 | 2232.4 | 2234.5 | 2262.1 | 2292.8 | 2280.1 | 2246.2 |
| 27.5° | 2240.9 | 2172.1 | 2167.8 | 2179.5 | 2197.5 | 2187.9 | 2181.6 | 2189.0 | 2203.8 | 2187.9 | 2158.3 |
| 30° | 2161.5 | 2103.2 | 2105.3 | 2127.6 | 2146.6 | 2130.8 | 2114.9 | 2119.1 | 2120.2 | 2103.2 | 2069.3 |
| 32.5° | 2077.8 | 2034.4 | 2041.8 | 2065.1 | 2087.3 | 2070.4 | 2053.4 | 2051.3 | 2031.2 | 2011.1 | 1978.3 |
| 35° | 1994.1 | 1977.2 | 1986.7 | 2005.8 | 2024.9 | 2011.1 | 2000.5 | 1994.1 | 1950.7 | 1921.1 | 1893.5 |
| 37.5° | 1917.9 | 1930.6 | 1947.5 | 1959.2 | 1965.5 | 1964.5 | 1958.1 | 1943.3 | 1886.1 | 1851.2 | 1815.2 |
| 40° | 1850.1 | 1889.3 | 1907.3 | 1912.6 | 1922.1 | 1920.0 | 1919.0 | 1897.8 | 1822.6 | 1785.5 | 1744.2 |
| 42.5° | 1788.7 | 1843.8 | 1874.5 | 1879.8 | 1885.1 | 1886.1 | 1882.9 | 1852.2 | 1766.5 | 1723.0 | 1683.8 |
| 45° | 1729.4 | 1801.4 | 1840.6 | 1835.3 | 1842.7 | 1842.7 | 1845.9 | 1805.6 | 1711.4 | 1666.9 | 1625.6 |
| 47.5° | 1677.5 | 1762.2 | 1798.2 | 1791.9 | 1796.1 | 1799.3 | 1802.5 | 1755.9 | 1651.0 | 1608.7 | 1566.3 |
| 50° | 1629.8 | 1719.9 | 1750.6 | 1752.7 | 1752.7 | 1760.1 | 1759.0 | 1713.5 | 1600.2 | 1554.6 | 1512.3 |
| 52.5° | 1579.0 | 1676.4 | 1709.3 | 1723.0 | 1727.3 | 1730.4 | 1715.6 | 1662.7 | 1548.3 | 1493.2 | 1454.0 |
| 55° | 1519.7 | 1632.0 | 1661.6 | 1679.6 | 1688.1 | 1686.0 | 1665.8 | 1611.8 | 1495.3 | 1440.3 | 1395.8 |
| 57.5° | 1429.7 | 1536.6 | 1579.0 | 1587.5 | 1601.2 | 1592.8 | 1569.5 | 1523.9 | 1410.6 | 1355.6 | 1310.0 |
| 60° | 1331.2 | 1408.5 | 1442.4 | 1449.8 | 1439.2 | 1442.4 | 1439.2 | 1395.8 | 1297.3 | 1253.9 | 1207.3 |
| 62.5° | 1202.0 | 1270.8 | 1306.8 | 1316.4 | 1298.4 | 1310.0 | 1305.8 | 1251.8 | 1153.3 | 1107.7 | 1066.4 |
| 65° | 1104.6 | 1179.8 | 1222.1 | 1227.4 | 1222.1 | 1227.4 | 1212.6 | 1146.9 | 1053.7 | 1007.1 | 964.8 |
| 67.5° | 1028.3 | 1105.6 | 1150.1 | 1164.9 | 1159.6 | 1158.6 | 1135.3 | 1059.0 | 962.7 | 911.8 | 857.8 |
| 70° | 897.0 | 964.8 | 1022.0 | 1058.0 | 1058.0 | 1037.8 | 993.4 | 922.4 | 845.1 | 801.7 | 759.3 |
| 72.5° | 794.3 | 880.0 | 936.2 | 973.2 | 980.7 | 969.0 | 906.5 | 831.3 | 742.4 | 699.0 | 654.5 |
| 75° | 654.5 | 738.1 | 798.5 | 847.2 | 856.8 | 844.0 | 772.0 | 697.9 | 615.3 | 572.9 | 528.5 |
| 77.5° | 437.4 | 487.2 | 535.9 | 580.3 | 570.8 | 579.3 | 530.6 | 474.4 | 423.6 | 391.8 | 371.7 |
| 80° | 246.8 | 279.6 | 294.4 | 318.8 | 318.8 | 318.8 | 287.0 | 260.5 | 231.9 | 213.9 | 193.8 |
| 82.5° | 139.8 | 161.0 | 167.3 | 187.4 | 192.7 | 193.8 | 172.6 | 155.7 | 137.7 | 128.1 | 114.4 |
| 85° | 64.6 | 76.2 | 77.3 | 89.0 | 93.2 | 101.7 | 92.1 | 80.5 | 69.9 | 65.7 | 57.2 |
| 87.5° | 2.1 | 6.4 | 8.5 | 15.9 | 21.2 | 24.4 | 26.5 | 26.5 | 22.2 | 20.1 | 16.9 |
| 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: P633699

CATALOG NUMBER: GWS-SA2F-730-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 | 2374.3 |
| 2.5° | 2248.3 | 2273.7 | 2303.4 | 2324.6 | 2362.7 | 2394.5 | 2427.3 | 2463.3 | 2489.8 | 2483.4 |
| 5° | 2135.0 | 2177.4 | 2231.4 | 2281.1 | 2352.1 | 2424.1 | 2503.5 | 2585.1 | 2632.7 | 2630.6 |
| 7.5° | 2071.5 | 2131.8 | 2197.5 | 2264.2 | 2347.9 | 2451.6 | 2573.4 | 2700.5 | 2765.1 | 2768.3 |
| 10° | 2105.3 | 2169.9 | 2214.4 | 2270.5 | 2358.4 | 2488.7 | 2634.9 | 2787.4 | 2861.5 | 2876.3 |
| 12.5° | 2212.3 | 2207.0 | 2203.8 | 2244.1 | 2350.0 | 2515.2 | 2694.2 | 2876.3 | 2960.0 | 2978.0 |
| 15° | 2314.0 | 2204.9 | 2139.2 | 2166.8 | 2311.8 | 2532.1 | 2752.4 | 2973.7 | 3068.0 | 3087.1 |
| 17.5° | 2333.0 | 2167.8 | 2046.0 | 2065.1 | 2251.5 | 2537.4 | 2808.5 | 3069.1 | 3170.7 | 3188.7 |
| 20° | 2280.1 | 2120.2 | 1978.3 | 1951.8 | 2175.2 | 2523.7 | 2843.5 | 3148.5 | 3259.7 | 3278.7 |
| 22.5° | 2213.4 | 2077.8 | 1927.4 | 1858.6 | 2082.0 | 2509.9 | 2882.7 | 3232.1 | 3360.3 | 3377.2 |
| 25° | 2143.5 | 2023.8 | 1879.8 | 1774.9 | 1976.1 | 2501.4 | 2948.3 | 3342.3 | 3496.9 | 3517.0 |
| 27.5° | 2069.3 | 1958.1 | 1838.5 | 1734.7 | 1878.7 | 2512.0 | 3041.5 | 3520.2 | 3696.0 | 3724.6 |
| 30° | 1989.9 | 1892.5 | 1812.0 | 1720.9 | 1812.0 | 2521.5 | 3144.2 | 3702.3 | 3908.9 | 3949.1 |
| 32.5° | 1907.3 | 1832.1 | 1784.5 | 1727.3 | 1770.7 | 2499.3 | 3234.3 | 3906.7 | 4163.0 | 4198.0 |
| 35° | 1824.7 | 1770.7 | 1749.5 | 1738.9 | 1715.6 | 2417.8 | 3307.3 | 4113.2 | 4453.2 | 4483.9 |
| 37.5° | 1747.4 | 1707.1 | 1700.8 | 1712.4 | 1630.9 | 2284.3 | 3392.1 | 4375.9 | 4738.1 | 4784.7 |
| 40° | 1675.4 | 1638.3 | 1637.3 | 1635.1 | 1537.7 | 2102.2 | 3506.4 | 4642.8 | 5018.7 | 5039.9 |
| 42.5° | 1608.7 | 1562.1 | 1570.5 | 1545.1 | 1461.5 | 1905.2 | 3614.4 | 4870.5 | 5280.3 | 5295.1 |
| 45° | 1549.4 | 1487.9 | 1497.5 | 1465.7 | 1425.4 | 1698.7 | 3709.8 | 5139.4 | 5611.8 | 5621.3 |
| 47.5° | 1492.2 | 1426.5 | 1400.0 | 1397.9 | 1419.1 | 1508.0 | 3803.0 | 5657.3 | 6130.7 | 6147.6 |
| 50° | 1439.2 | 1368.3 | 1293.1 | 1339.7 | 1379.9 | 1365.1 | 3919.4 | 6212.2 | 6666.6 | 6662.3 |
| 52.5° | 1388.4 | 1295.2 | 1188.2 | 1278.2 | 1278.2 | 1259.2 | 3886.6 | 6549.0 | 7109.2 | 7182.3 |
| 55° | 1330.1 | 1177.6 | 1079.1 | 1175.5 | 1128.9 | 1163.9 | 3305.2 | 6659.1 | 7387.8 | 7491.5 |
| 57.5° | 1214.7 | 1032.5 | 946.8 | 998.7 | 928.8 | 1079.1 | 2374.3 | 6112.7 | 6914.4 | 7098.6 |
| 60° | 1103.5 | 925.6 | 869.5 | 859.9 | 768.9 | 880.0 | 1538.8 | 4785.7 | 5691.2 | 5784.4 |
| 62.5° | 973.2 | 833.5 | 785.8 | 712.7 | 618.5 | 640.7 | 931.9 | 3149.5 | 3824.1 | 3845.3 |
| 65° | 874.8 | 755.1 | 664.0 | 577.2 | 506.2 | 464.9 | 550.7 | 1518.6 | 1911.5 | 1886.1 |
| 67.5° | 750.8 | 647.1 | 560.2 | 497.7 | 439.5 | 387.6 | 366.4 | 451.1 | 510.4 | 493.5 |
| 70° | 668.2 | 568.7 | 485.0 | 425.7 | 371.7 | 319.8 | 282.8 | 265.8 | 260.5 | 256.3 |
| 72.5° | 576.1 | 489.3 | 402.4 | 345.2 | 294.4 | 246.8 | 212.9 | 192.7 | 187.4 | 183.2 |
| 75° | 459.6 | 378.1 | 298.6 | 244.6 | 200.2 | 166.3 | 144.0 | 127.1 | 123.9 | 119.7 |
| 77.5° | 303.9 | 242.5 | 177.9 | 145.1 | 118.6 | 100.6 | 85.8 | 75.2 | 73.1 | 71.0 |
| 80° | 167.3 | 139.8 | 109.1 | 87.9 | 71.0 | 61.4 | 56.1 | 49.8 | 48.7 | 47.7 |
| 82.5° | 99.5 | 83.7 | 62.5 | 49.8 | 41.3 | 37.1 | 33.9 | 30.7 | 29.7 | 28.6 |
| 85° | 49.8 | 39.2 | 27.5 | 23.3 | 21.2 | 19.1 | 19.1 | 15.9 | 14.8 | 14.8 |
| 87.5° | 12.7 | 10.6 | 6.4 | 5.3 | 5.3 | 5.3 | 4.2 | 3.2 | 3.2 | 2.1 |
| 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: SP1-1908-441-2-R4

Test Date: 10/03/2019

Luminaire Tested: SA1C-730-U-5WQ

Data in this report applies to families of products SA1C-730-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-2-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-730-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2993
 CIE u': 0.2508
 CIE v': 0.5215
 Duv: 0.0000
 CIE x: 0.4374
 CIE y: 0.4043
 CIE z: 0.1583
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 53

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.8 | | |
| R1: | 67.5 | R9: | -38.3 |
| R2: | 82.9 | R10: | 62.5 |
| R3: | 94.7 | R11: | 63.7 |
| R4: | 67.7 | R12: | 57.8 |
| R5: | 67.9 | R13: | 70.4 |
| R6: | 77.6 | R14: | 97.3 |
| R7: | 76.0 | | |
| R8: | 40.5 | | |

Rf: 75.7
 Rg: 93.9



Test Conditions

Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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: SP1-1908-441-2-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-2-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 8494.8

S/P: 1.23

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3101.5 M/P: 0.45

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.9$
 CIE $R_a = 71.8$
 $R_9 = -38.3$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)