

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: P638207

Luminaire Tested: GWS-SA4E-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28288.8 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

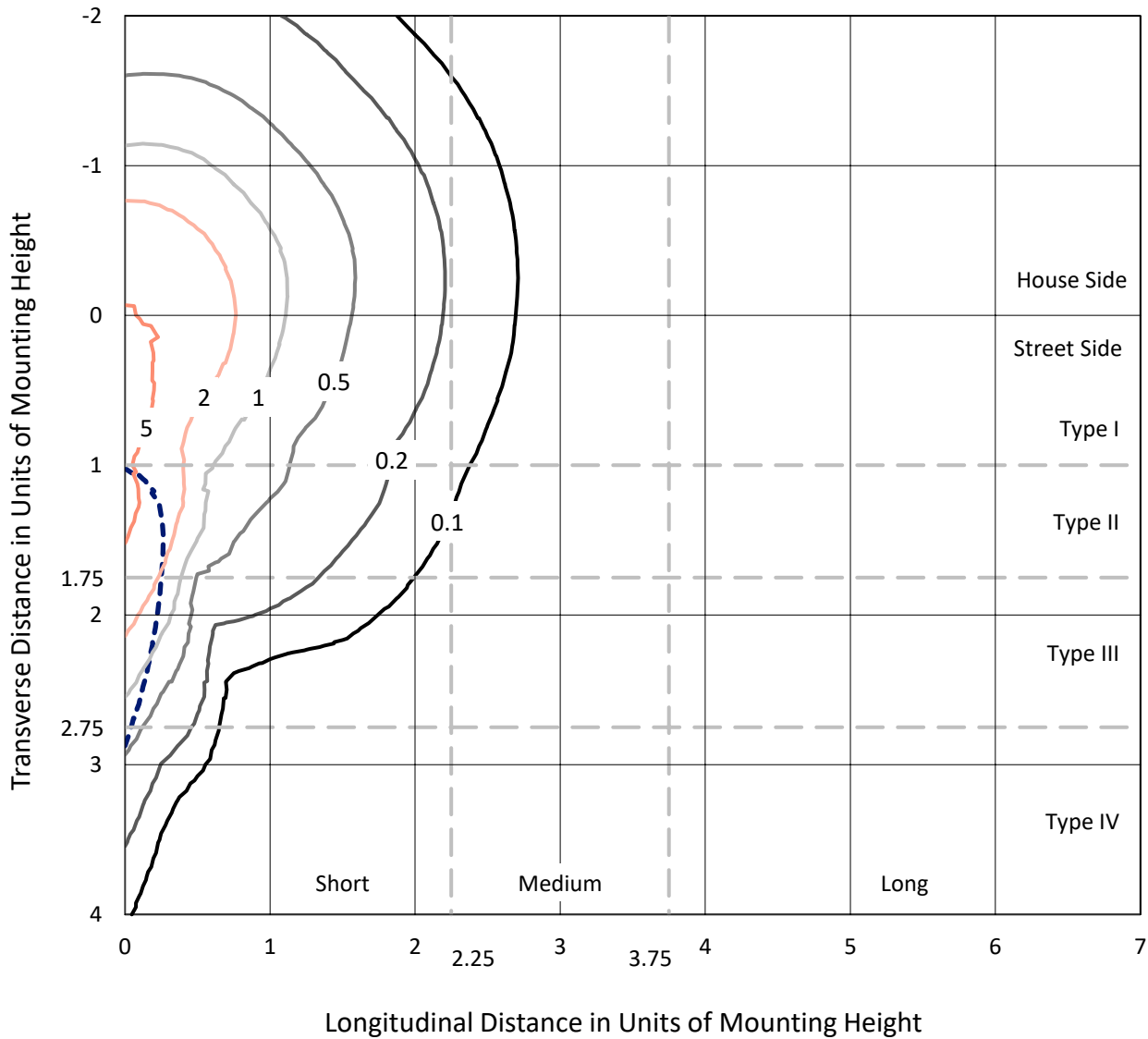
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

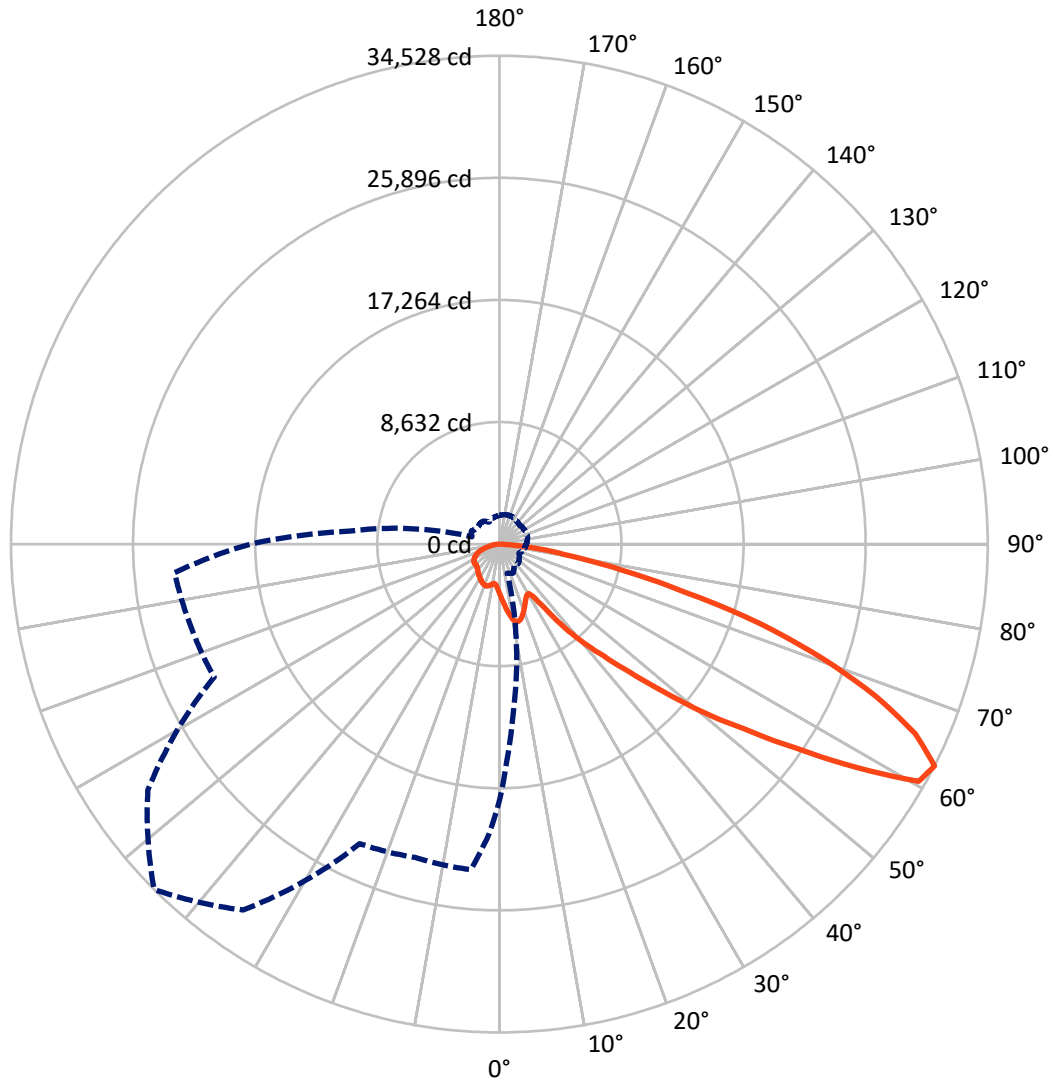
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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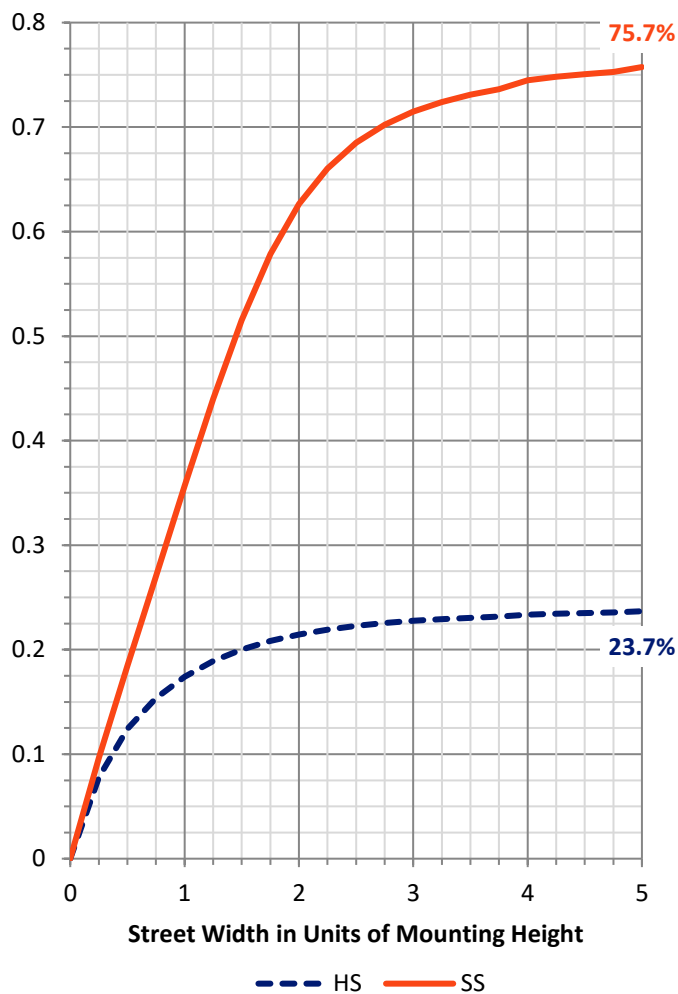
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6763.9 | 0.0 | 6763.9 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 21524.9 | 0.0 | 21524.9 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 28288.8 | 0.0 | 28288.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 347.5 | 1.2 |
| 10°-20° | 1129.3 | 4.0 |
| 20°-30° | 1777.7 | 6.3 |
| 30°-40° | 2436.7 | 8.6 |
| 40°-50° | 3802.0 | 13.4 |
| 50°-60° | 6555.4 | 23.2 |
| 60°-70° | 7596.9 | 26.9 |
| 70°-80° | 4010.0 | 14.2 |
| 80°-90° | 633.4 | 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° | 28288.8 | 100.0 |
| 0°-180° | 28288.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P638207

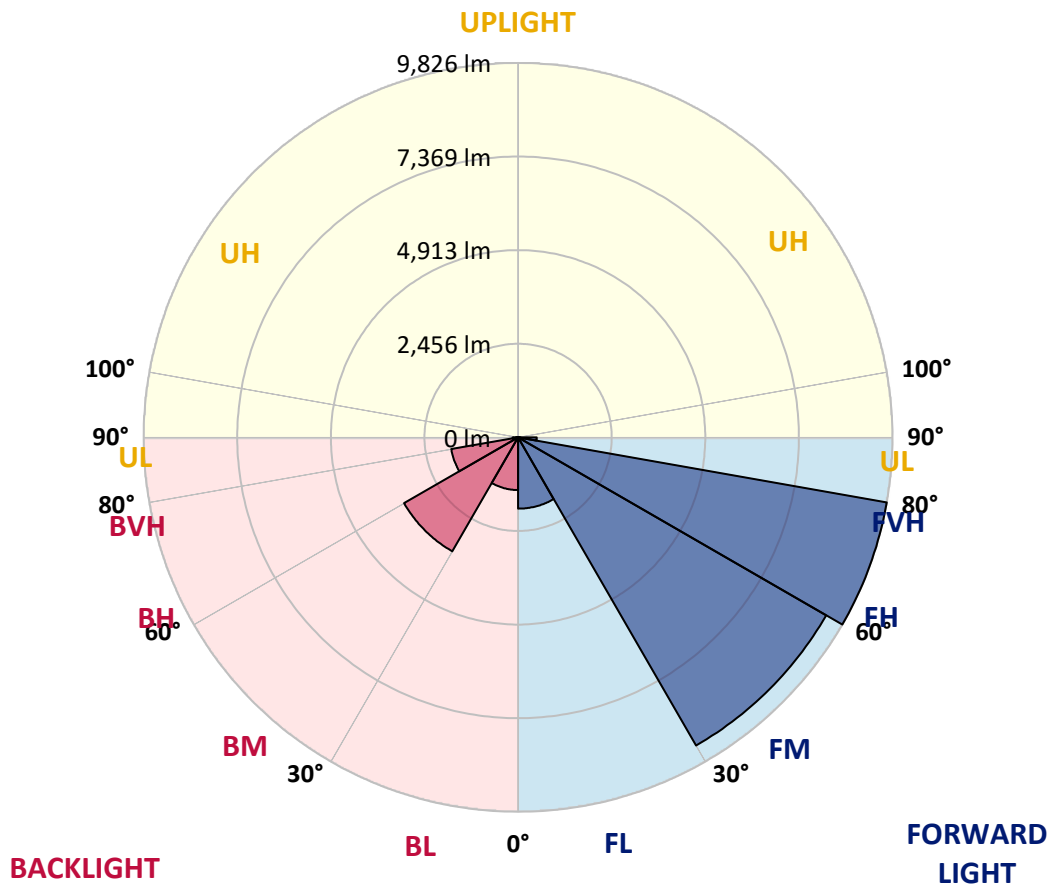
CATALOG NUMBER: GWS-SA4E-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1871.0 | 6.6 | | | |
| FM (30°-60°) | 9339.1 | 33.0 | | | |
| FH (60°-80°) | 9825.9 | 34.7 | | | G4/12000 |
| FVH (80°-90°) | 488.9 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1383.5 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 3455.0 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 1781.0 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 144.5 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 |
| 2.5° | 3832.1 | 3817.0 | 3795.3 | 3721.8 | 3676.3 | 3624.4 | 3570.3 | 3507.6 | 3436.1 | 3386.4 | 3336.6 |
| 5° | 4156.7 | 4132.9 | 4081.0 | 3905.7 | 3784.5 | 3652.5 | 3542.2 | 3416.7 | 3293.3 | 3208.9 | 3124.6 |
| 7.5° | 4468.3 | 4438.0 | 4357.9 | 4089.6 | 3892.7 | 3702.3 | 3535.7 | 3353.9 | 3170.0 | 3044.5 | 2945.0 |
| 10° | 4779.9 | 4717.1 | 4615.4 | 4264.9 | 4005.2 | 3784.5 | 3594.1 | 3371.2 | 3126.7 | 2955.8 | 2849.8 |
| 12.5° | 5017.9 | 4959.5 | 4849.1 | 4425.0 | 4117.8 | 3840.8 | 3626.6 | 3421.0 | 3213.3 | 3031.5 | 2923.3 |
| 15° | 5240.8 | 5165.0 | 5039.5 | 4574.3 | 4210.8 | 3838.6 | 3561.6 | 3382.1 | 3351.8 | 3306.3 | 3165.7 |
| 17.5° | 5400.9 | 5331.7 | 5201.8 | 4695.5 | 4262.7 | 3771.5 | 3382.1 | 3276.0 | 3412.3 | 3550.8 | 3416.7 |
| 20° | 5541.5 | 5461.5 | 5329.5 | 4779.9 | 4273.5 | 3622.2 | 3163.5 | 3165.7 | 3379.9 | 3570.3 | 3537.8 |
| 22.5° | 5660.6 | 5571.8 | 5455.0 | 4875.1 | 4269.2 | 3414.5 | 2973.1 | 3102.9 | 3317.1 | 3466.4 | 3470.8 |
| 25° | 5807.7 | 5734.1 | 5636.8 | 5015.7 | 4269.2 | 3202.5 | 2834.6 | 3027.2 | 3211.1 | 3336.6 | 3332.3 |
| 27.5° | 5987.3 | 5937.5 | 5857.5 | 5230.0 | 4308.2 | 3025.0 | 2756.7 | 2929.8 | 3074.8 | 3183.0 | 3180.8 |
| 30° | 6188.5 | 6143.1 | 6082.5 | 5457.2 | 4375.2 | 2893.0 | 2713.4 | 2808.6 | 2914.7 | 3001.2 | 3001.2 |
| 32.5° | 6394.1 | 6376.8 | 6311.9 | 5638.9 | 4323.3 | 2851.9 | 2676.6 | 2687.5 | 2743.7 | 2815.1 | 2808.6 |
| 35° | 6679.7 | 6662.4 | 6580.2 | 5779.6 | 4098.3 | 2793.5 | 2618.2 | 2564.1 | 2570.6 | 2616.1 | 2631.2 |
| 37.5° | 7097.3 | 7071.4 | 6950.2 | 5944.0 | 3758.6 | 2646.4 | 2523.0 | 2434.3 | 2414.8 | 2434.3 | 2462.4 |
| 40° | 7601.5 | 7562.6 | 7398.1 | 6166.9 | 3366.9 | 2447.3 | 2373.7 | 2300.1 | 2267.7 | 2274.2 | 2306.6 |
| 42.5° | 8233.3 | 8151.1 | 7915.3 | 6402.7 | 2979.6 | 2272.0 | 2207.1 | 2161.7 | 2124.9 | 2120.5 | 2183.3 |
| 45° | 9259.0 | 9034.0 | 8659.6 | 6612.6 | 2652.8 | 2179.0 | 2057.8 | 2025.3 | 1995.0 | 2012.4 | 2085.9 |
| 47.5° | 11050.6 | 10635.2 | 9906.0 | 6792.2 | 2453.8 | 2181.1 | 1938.8 | 1904.2 | 1902.0 | 1936.6 | 2018.8 |
| 50° | 13513.1 | 12913.7 | 11788.5 | 6913.4 | 2349.9 | 2207.1 | 1867.4 | 1811.1 | 1852.2 | 1886.9 | 1964.7 |
| 52.5° | 15871.6 | 14956.3 | 13616.9 | 6911.2 | 2304.5 | 2211.4 | 1886.9 | 1724.6 | 1852.2 | 1860.9 | 1934.5 |
| 55° | 17886.1 | 16228.7 | 14110.3 | 6201.5 | 2239.6 | 2194.1 | 1962.6 | 1657.5 | 1828.4 | 1860.9 | 1919.3 |
| 57.5° | 19487.4 | 17037.9 | 14073.5 | 5009.2 | 2436.5 | 2098.9 | 2008.0 | 1642.3 | 1759.2 | 1865.2 | 1932.3 |
| 60° | 19309.9 | 16667.9 | 13166.8 | 3074.8 | 2417.0 | 1930.1 | 2001.5 | 1670.5 | 1642.3 | 1806.8 | 1917.1 |
| 62.5° | 18130.7 | 15341.5 | 11606.7 | 2133.5 | 2269.8 | 1832.8 | 1895.5 | 1720.2 | 1534.1 | 1722.4 | 1843.6 |
| 65° | 16479.7 | 13629.9 | 9672.3 | 1635.8 | 1880.4 | 1837.1 | 1715.9 | 1685.6 | 1438.9 | 1588.2 | 1718.1 |
| 67.5° | 14296.4 | 11507.2 | 7636.1 | 1296.1 | 1311.3 | 1590.4 | 1558.0 | 1497.4 | 1350.2 | 1469.2 | 1586.1 |
| 70° | 10747.7 | 8397.8 | 5253.8 | 1043.0 | 993.2 | 1328.6 | 1400.0 | 1345.9 | 1263.7 | 1298.3 | 1421.6 |
| 72.5° | 7573.4 | 5483.1 | 2877.9 | 826.6 | 766.0 | 1021.3 | 1216.1 | 1207.4 | 1116.5 | 1142.5 | 1263.7 |
| 75° | 5628.1 | 3879.7 | 1798.1 | 653.5 | 623.2 | 731.4 | 1019.2 | 1045.1 | 969.4 | 999.7 | 1092.7 |
| 77.5° | 3745.6 | 2512.2 | 999.7 | 484.7 | 484.7 | 534.5 | 759.5 | 880.7 | 824.4 | 848.2 | 913.1 |
| 80° | 2066.4 | 1278.8 | 499.8 | 318.1 | 326.7 | 367.8 | 553.9 | 634.0 | 636.2 | 694.6 | 711.9 |
| 82.5° | 653.5 | 406.8 | 222.9 | 186.1 | 175.3 | 209.9 | 357.0 | 454.4 | 424.1 | 541.0 | 497.7 |
| 85° | 149.3 | 95.2 | 41.1 | 41.1 | 45.4 | 69.2 | 136.3 | 242.3 | 309.4 | 372.2 | 270.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 95.2 | 140.6 | 125.5 |
| 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-SA4E-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 |
| 2.5° | 3306.3 | 3263.0 | 3250.1 | 3213.3 | 3208.9 | 3174.3 | 3161.3 | 3161.3 | 3176.5 | 3176.5 | 3191.6 |
| 5° | 3089.9 | 3035.8 | 3005.5 | 2962.3 | 2951.5 | 2925.5 | 2908.2 | 2910.3 | 2929.8 | 2942.8 | 2968.8 |
| 7.5° | 2899.5 | 2862.7 | 2841.1 | 2821.6 | 2817.3 | 2813.0 | 2793.5 | 2791.3 | 2797.8 | 2817.3 | 2836.8 |
| 10° | 2819.5 | 2793.5 | 2800.0 | 2815.1 | 2838.9 | 2851.9 | 2834.6 | 2825.9 | 2819.5 | 2832.4 | 2849.8 |
| 12.5° | 2897.4 | 2871.4 | 2884.4 | 2910.3 | 2942.8 | 2955.8 | 2949.3 | 2947.1 | 2953.6 | 3003.4 | 3040.2 |
| 15° | 3068.3 | 3018.5 | 3001.2 | 3012.0 | 3038.0 | 3051.0 | 3044.5 | 3053.2 | 3094.3 | 3224.1 | 3317.1 |
| 17.5° | 3280.4 | 3159.2 | 3089.9 | 3070.5 | 3081.3 | 3092.1 | 3092.1 | 3113.7 | 3185.1 | 3375.6 | 3492.4 |
| 20° | 3395.0 | 3237.1 | 3120.2 | 3072.6 | 3077.0 | 3087.8 | 3087.8 | 3118.1 | 3198.1 | 3401.5 | 3477.3 |
| 22.5° | 3364.7 | 3219.8 | 3077.0 | 3025.0 | 3027.2 | 3035.8 | 3035.8 | 3061.8 | 3133.2 | 3312.8 | 3347.4 |
| 25° | 3245.7 | 3118.1 | 2977.4 | 2932.0 | 2936.3 | 2951.5 | 2947.1 | 2962.3 | 3016.4 | 3163.5 | 3183.0 |
| 27.5° | 3102.9 | 2990.4 | 2851.9 | 2817.3 | 2836.8 | 2867.1 | 2841.1 | 2843.3 | 2893.0 | 3016.4 | 3018.5 |
| 30° | 2949.3 | 2856.2 | 2732.9 | 2706.9 | 2743.7 | 2758.9 | 2735.1 | 2735.1 | 2784.8 | 2869.2 | 2867.1 |
| 32.5° | 2782.7 | 2724.3 | 2635.5 | 2607.4 | 2648.5 | 2672.3 | 2642.0 | 2646.4 | 2685.3 | 2741.6 | 2719.9 |
| 35° | 2626.9 | 2596.6 | 2555.5 | 2536.0 | 2562.0 | 2583.6 | 2564.1 | 2572.8 | 2609.6 | 2624.7 | 2594.4 |
| 37.5° | 2477.6 | 2473.2 | 2477.6 | 2477.6 | 2484.1 | 2490.6 | 2477.6 | 2499.2 | 2531.7 | 2512.2 | 2477.6 |
| 40° | 2347.7 | 2365.1 | 2406.2 | 2395.3 | 2388.9 | 2395.3 | 2386.7 | 2423.5 | 2455.9 | 2421.3 | 2380.2 |
| 42.5° | 2239.6 | 2272.0 | 2334.8 | 2334.8 | 2321.8 | 2326.1 | 2321.8 | 2367.2 | 2391.0 | 2343.4 | 2298.0 |
| 45° | 2146.5 | 2194.1 | 2274.2 | 2285.0 | 2263.4 | 2263.4 | 2272.0 | 2328.3 | 2336.9 | 2272.0 | 2224.4 |
| 47.5° | 2081.6 | 2140.0 | 2230.9 | 2250.4 | 2217.9 | 2215.8 | 2239.6 | 2300.1 | 2300.1 | 2224.4 | 2170.3 |
| 50° | 2036.2 | 2101.1 | 2209.3 | 2235.2 | 2202.8 | 2194.1 | 2233.1 | 2291.5 | 2278.5 | 2187.6 | 2133.5 |
| 52.5° | 2005.9 | 2072.9 | 2207.1 | 2243.9 | 2222.2 | 2213.6 | 2252.5 | 2293.6 | 2261.2 | 2163.8 | 2107.6 |
| 55° | 1986.4 | 2060.0 | 2213.6 | 2243.9 | 2220.1 | 2204.9 | 2243.9 | 2280.7 | 2263.4 | 2150.8 | 2096.7 |
| 57.5° | 1997.2 | 2070.8 | 2204.9 | 2220.1 | 2192.0 | 2166.0 | 2211.4 | 2263.4 | 2256.9 | 2155.2 | 2101.1 |
| 60° | 1979.9 | 2047.0 | 2157.3 | 2161.7 | 2114.1 | 2072.9 | 2140.0 | 2217.9 | 2217.9 | 2140.0 | 2092.4 |
| 62.5° | 1899.8 | 1966.9 | 2064.3 | 2068.6 | 2014.5 | 1969.1 | 2047.0 | 2140.0 | 2137.9 | 2075.1 | 2025.3 |
| 65° | 1767.8 | 1830.6 | 1940.9 | 1951.8 | 1897.7 | 1850.1 | 1930.1 | 2016.7 | 2023.2 | 1966.9 | 1923.6 |
| 67.5° | 1622.9 | 1679.1 | 1761.3 | 1804.6 | 1759.2 | 1709.4 | 1783.0 | 1865.2 | 1863.0 | 1796.0 | 1750.5 |
| 70° | 1449.8 | 1501.7 | 1577.4 | 1614.2 | 1586.1 | 1538.5 | 1605.6 | 1648.8 | 1629.4 | 1596.9 | 1566.6 |
| 72.5° | 1278.8 | 1328.6 | 1400.0 | 1400.0 | 1369.7 | 1324.3 | 1343.7 | 1421.6 | 1445.4 | 1421.6 | 1402.2 |
| 75° | 1099.2 | 1142.5 | 1192.3 | 1203.1 | 1136.0 | 1053.8 | 1144.7 | 1211.7 | 1239.9 | 1229.1 | 1205.2 |
| 77.5° | 915.3 | 947.8 | 1021.3 | 1001.8 | 876.3 | 833.1 | 906.6 | 1006.2 | 1025.7 | 1019.2 | 986.7 |
| 80° | 705.4 | 724.9 | 802.8 | 763.8 | 666.5 | 638.3 | 670.8 | 748.7 | 753.0 | 731.4 | 690.3 |
| 82.5° | 473.9 | 499.8 | 551.8 | 476.0 | 473.9 | 447.9 | 421.9 | 430.6 | 469.5 | 465.2 | 437.1 |
| 85° | 242.3 | 255.3 | 305.1 | 285.6 | 244.5 | 212.1 | 201.2 | 214.2 | 192.6 | 175.3 | 151.5 |
| 87.5° | 101.7 | 110.4 | 151.5 | 84.4 | 26.0 | 0.0 | 0.0 | 13.0 | 19.5 | 28.1 | 30.3 |
| 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-SA4E-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 |
| 2.5° | 3226.3 | 3250.1 | 3308.5 | 3382.1 | 3453.5 | 3527.0 | 3607.1 | 3656.9 | 3717.4 | 3795.3 | 3797.5 |
| 5° | 3001.2 | 3055.3 | 3139.7 | 3252.2 | 3369.1 | 3503.2 | 3659.0 | 3788.8 | 3944.6 | 4068.0 | 4117.8 |
| 7.5° | 2862.7 | 2940.6 | 3046.7 | 3189.5 | 3343.1 | 3509.7 | 3713.1 | 3931.7 | 4187.0 | 4351.4 | 4448.8 |
| 10° | 2875.7 | 2994.7 | 3100.8 | 3221.9 | 3360.4 | 3540.0 | 3801.8 | 4091.8 | 4405.5 | 4621.9 | 4743.1 |
| 12.5° | 3107.2 | 3232.7 | 3213.3 | 3206.8 | 3299.8 | 3518.4 | 3873.2 | 4254.1 | 4637.1 | 4853.4 | 4998.4 |
| 15° | 3399.4 | 3447.0 | 3263.0 | 3124.6 | 3180.8 | 3440.5 | 3912.2 | 4399.0 | 4829.6 | 5093.6 | 5236.4 |
| 17.5° | 3548.7 | 3453.5 | 3230.6 | 3022.9 | 3007.7 | 3321.5 | 3931.7 | 4546.2 | 5046.0 | 5310.0 | 5461.5 |
| 20° | 3479.4 | 3340.9 | 3152.7 | 2955.8 | 2847.6 | 3159.2 | 3920.8 | 4663.0 | 5242.9 | 5537.2 | 5660.6 |
| 22.5° | 3330.1 | 3208.9 | 3061.8 | 2873.6 | 2717.8 | 2981.7 | 3892.7 | 4779.9 | 5418.2 | 5714.7 | 5822.8 |
| 25° | 3167.8 | 3077.0 | 2955.8 | 2791.3 | 2644.2 | 2825.9 | 3873.2 | 4935.7 | 5619.4 | 5902.9 | 5972.1 |
| 27.5° | 3005.5 | 2938.5 | 2838.9 | 2711.3 | 2626.9 | 2717.8 | 3879.7 | 5139.1 | 5879.1 | 6147.4 | 6119.3 |
| 30° | 2845.4 | 2787.0 | 2717.8 | 2661.5 | 2624.7 | 2691.8 | 3862.4 | 5355.5 | 6164.7 | 6413.6 | 6247.0 |
| 32.5° | 2694.0 | 2639.9 | 2596.6 | 2605.2 | 2626.9 | 2702.6 | 3773.7 | 5552.4 | 6426.5 | 6638.6 | 6385.4 |
| 35° | 2564.1 | 2507.9 | 2507.9 | 2538.2 | 2618.2 | 2665.8 | 3544.3 | 5706.0 | 6716.5 | 6928.6 | 6582.3 |
| 37.5° | 2443.0 | 2393.2 | 2425.6 | 2475.4 | 2551.1 | 2566.3 | 3250.1 | 5855.3 | 7138.4 | 7337.5 | 6887.4 |
| 40° | 2336.9 | 2287.2 | 2345.6 | 2408.3 | 2447.3 | 2440.8 | 2951.5 | 6063.0 | 7636.1 | 7841.7 | 7292.1 |
| 42.5° | 2252.5 | 2207.1 | 2259.0 | 2339.1 | 2345.6 | 2352.1 | 2732.9 | 6262.1 | 8213.9 | 8475.7 | 7988.8 |
| 45° | 2183.3 | 2150.8 | 2176.8 | 2256.9 | 2256.9 | 2356.4 | 2596.6 | 6428.7 | 9083.7 | 9546.8 | 9267.6 |
| 47.5° | 2129.2 | 2109.7 | 2122.7 | 2148.7 | 2192.0 | 2434.3 | 2510.0 | 6556.4 | 10667.6 | 11576.4 | 11295.1 |
| 50° | 2098.9 | 2079.4 | 2096.7 | 2042.6 | 2172.5 | 2473.2 | 2481.9 | 6653.7 | 12755.7 | 14179.5 | 13831.1 |
| 52.5° | 2072.9 | 2066.4 | 2077.3 | 1951.8 | 2215.8 | 2447.3 | 2460.3 | 6523.9 | 14155.7 | 16741.5 | 17085.5 |
| 55° | 2064.3 | 2068.6 | 2016.7 | 1884.7 | 2267.7 | 2360.7 | 2395.3 | 5595.6 | 14536.5 | 18950.7 | 21086.4 |
| 57.5° | 2068.6 | 2055.6 | 1923.6 | 1891.2 | 2269.8 | 2187.6 | 2488.4 | 3992.2 | 13982.6 | 19911.5 | 25000.8 |
| 60° | 2053.5 | 1988.6 | 1811.1 | 1949.6 | 2170.3 | 1984.2 | 2421.3 | 2603.1 | 12522.0 | 19173.6 | 25228.0 |
| 62.5° | 1986.4 | 1891.2 | 1713.7 | 1982.1 | 1992.9 | 1863.0 | 2198.4 | 2005.9 | 10574.6 | 17594.0 | 23038.2 |
| 65° | 1889.0 | 1761.3 | 1631.5 | 1915.0 | 1813.3 | 1806.8 | 1653.2 | 1607.7 | 8503.8 | 15713.7 | 20960.9 |
| 67.5° | 1728.9 | 1601.2 | 1570.9 | 1761.3 | 1631.5 | 1601.2 | 1328.6 | 1332.9 | 6785.7 | 13710.0 | 18872.8 |
| 70° | 1547.1 | 1419.5 | 1443.3 | 1592.6 | 1451.9 | 1330.7 | 1075.4 | 1110.0 | 5147.7 | 11422.8 | 16057.7 |
| 72.5° | 1428.1 | 1257.2 | 1259.3 | 1402.2 | 1276.7 | 1077.6 | 885.0 | 915.3 | 3267.4 | 8609.8 | 12766.5 |
| 75° | 1205.2 | 1107.9 | 1060.3 | 1136.0 | 1084.1 | 839.6 | 744.4 | 737.9 | 1936.6 | 6171.2 | 9559.8 |
| 77.5° | 1006.2 | 930.4 | 906.6 | 936.9 | 809.3 | 621.0 | 599.4 | 588.6 | 1097.1 | 3953.3 | 6264.3 |
| 80° | 729.2 | 709.7 | 707.6 | 722.7 | 623.2 | 456.6 | 456.6 | 458.7 | 590.7 | 2146.5 | 3531.4 |
| 82.5° | 463.1 | 506.3 | 447.9 | 497.7 | 424.1 | 324.6 | 302.9 | 344.0 | 339.7 | 915.3 | 1488.7 |
| 85° | 192.6 | 264.0 | 246.7 | 261.8 | 201.2 | 177.4 | 190.4 | 205.6 | 196.9 | 352.7 | 579.9 |
| 87.5° | 36.8 | 43.3 | 47.6 | 45.4 | 45.4 | 56.3 | 62.8 | 75.7 | 75.7 | 101.7 | 175.3 |
| 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: P638207

CATALOG NUMBER: GWS-SA4E-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 | 3527.0 |
| 2.5° | 3879.7 | 3942.5 | 3929.5 | 3957.6 | 3920.8 | 3933.8 | 3860.3 | 3840.8 | 3827.8 | 3832.1 |
| 5° | 4277.9 | 4405.5 | 4429.3 | 4476.9 | 4444.5 | 4444.5 | 4314.7 | 4217.3 | 4182.7 | 4156.7 |
| 7.5° | 4682.5 | 4866.4 | 4987.6 | 5000.6 | 4983.3 | 4948.7 | 4760.4 | 4585.1 | 4522.4 | 4468.3 |
| 10° | 5041.7 | 5262.4 | 5398.7 | 5463.6 | 5431.2 | 5377.1 | 5143.4 | 4903.2 | 4827.5 | 4779.9 |
| 12.5° | 5316.5 | 5511.3 | 5602.1 | 5645.4 | 5641.1 | 5621.6 | 5431.2 | 5171.5 | 5091.5 | 5017.9 |
| 15° | 5493.9 | 5591.3 | 5556.7 | 5554.5 | 5584.8 | 5662.7 | 5604.3 | 5400.9 | 5307.9 | 5240.8 |
| 17.5° | 5608.6 | 5515.6 | 5361.9 | 5290.5 | 5355.5 | 5539.4 | 5673.5 | 5558.9 | 5474.5 | 5400.9 |
| 20° | 5649.7 | 5318.7 | 5095.8 | 4963.8 | 5039.5 | 5305.7 | 5636.8 | 5673.5 | 5602.1 | 5541.5 |
| 22.5° | 5602.1 | 5078.5 | 4775.6 | 4619.8 | 4693.3 | 5011.4 | 5528.6 | 5766.6 | 5719.0 | 5660.6 |
| 25° | 5485.3 | 4827.5 | 4464.0 | 4323.3 | 4403.4 | 4727.9 | 5336.0 | 5853.1 | 5855.3 | 5807.7 |
| 27.5° | 5340.3 | 4596.0 | 4245.4 | 4113.4 | 4191.3 | 4494.3 | 5147.7 | 5928.9 | 6004.6 | 5987.3 |
| 30° | 5193.2 | 4457.5 | 4141.6 | 4048.5 | 4106.9 | 4375.2 | 4955.1 | 6006.8 | 6158.2 | 6188.5 |
| 32.5° | 5126.1 | 4524.5 | 4386.1 | 4427.2 | 4351.4 | 4444.5 | 4885.9 | 6117.1 | 6344.3 | 6394.1 |
| 35° | 5214.8 | 5119.6 | 5470.1 | 5632.4 | 5364.1 | 5011.4 | 4974.6 | 6283.7 | 6606.1 | 6679.7 |
| 37.5° | 5645.4 | 6394.1 | 6917.7 | 7489.0 | 7023.8 | 6247.0 | 5413.9 | 6567.2 | 6980.5 | 7097.3 |
| 40° | 6582.3 | 7506.3 | 8451.9 | 9189.7 | 8486.5 | 7441.4 | 6249.1 | 6989.1 | 7495.5 | 7601.5 |
| 42.5° | 7465.2 | 8549.3 | 9851.9 | 10806.1 | 9893.0 | 8417.3 | 7149.3 | 7698.9 | 8174.9 | 8233.3 |
| 45° | 8330.7 | 9572.7 | 11546.1 | 12872.6 | 11632.7 | 9345.5 | 8068.9 | 8897.6 | 9256.8 | 9259.0 |
| 47.5° | 9345.5 | 10726.1 | 13671.0 | 15560.0 | 13941.5 | 10373.4 | 8932.3 | 10795.3 | 11295.1 | 11050.6 |
| 50° | 10559.4 | 11872.9 | 15858.6 | 18686.8 | 16756.6 | 11637.0 | 10029.3 | 13108.4 | 13790.0 | 13513.1 |
| 52.5° | 12184.5 | 13136.6 | 18269.1 | 21735.6 | 19824.9 | 13076.0 | 11619.7 | 16163.7 | 16388.8 | 15871.6 |
| 55° | 14471.6 | 14960.7 | 21363.4 | 25500.6 | 23250.3 | 14848.1 | 13945.8 | 19998.0 | 19368.4 | 17886.1 |
| 57.5° | 19679.9 | 17847.2 | 25336.2 | 29795.8 | 27125.7 | 18067.9 | 19043.8 | 24226.1 | 21986.6 | 19487.4 |
| 60° | 24037.9 | 21352.6 | 29012.5 | 34058.5 | 30447.1 | 21616.6 | 23830.2 | 24961.8 | 21889.2 | 19309.9 |
| 62.5° | 22568.6 | 22246.2 | 30338.9 | 34528.1 | 31581.0 | 23362.8 | 22940.8 | 23107.4 | 20461.1 | 18130.7 |
| 65° | 19801.1 | 20521.7 | 29155.3 | 32301.5 | 30323.8 | 21798.3 | 20751.0 | 21393.7 | 18827.4 | 16479.7 |
| 67.5° | 18167.4 | 18697.6 | 27049.9 | 28737.7 | 28038.8 | 20106.2 | 19048.1 | 18582.9 | 16291.4 | 14296.4 |
| 70° | 16497.0 | 16936.2 | 24094.1 | 24265.1 | 24475.0 | 17293.3 | 15575.2 | 14190.3 | 12143.4 | 10747.7 |
| 72.5° | 14255.3 | 14279.1 | 20357.2 | 19366.2 | 19764.3 | 13532.5 | 12537.2 | 10609.2 | 8839.2 | 7573.4 |
| 75° | 11959.4 | 11306.0 | 16114.0 | 13536.9 | 14335.3 | 10527.0 | 10410.1 | 7995.3 | 6666.7 | 5628.1 |
| 77.5° | 9118.3 | 8354.5 | 11771.2 | 8902.0 | 10068.3 | 7010.8 | 7826.5 | 5422.5 | 4691.2 | 3745.6 |
| 80° | 6121.4 | 5645.4 | 6504.4 | 5024.4 | 6586.7 | 4831.8 | 5104.5 | 3072.6 | 2663.7 | 2066.4 |
| 82.5° | 3228.4 | 2756.7 | 4020.4 | 2979.6 | 3972.8 | 2655.0 | 1915.0 | 949.9 | 809.3 | 653.5 |
| 85° | 1250.7 | 1447.6 | 1971.2 | 1060.3 | 1540.6 | 947.8 | 553.9 | 235.9 | 196.9 | 149.3 |
| 87.5° | 242.3 | 374.3 | 205.6 | 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 |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

All Brands

Data applicable to all product families using SA light engines

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/04/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-735-U-T2**
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 3388 | CRI (Ra): | 73.1 | R9: | -34.6 |
| CIE u': | 0.2371 | R1: | 68.9 | R10: | 57.8 |
| CIE v': | 0.5177 | R2: | 81.1 | R11: | 68.6 |
| Duv: | 0.0032 | R3: | 93.1 | R12: | 53.9 |
| CIE x: | 0.4153 | R4: | 71.6 | R13: | 70.9 |
| CIE y: | 0.4030 | R5: | 69.4 | R14: | 96.2 |
| CIE z: | 0.1817 | R6: | 75.0 | | |
| Peak Wavelength (nm): | 590 | R7: | 79.5 | | |
| Dominant Wavelength (nm): | 580 | R8: | 46.4 | | |
| Purity: | 45.7 | | | | |
| Rf: | 76.9 | | | | |
| Rg: | 94.4 | | | | |



Test Conditions

Stabilization Time: 81M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0/30%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | IN0046 | 12/1/2020 | 12/1/2021 |

REPORT NUMBER: SP1-2101-121-7

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-7

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 | 2672 | 0.0 | 490 | 34553 | 4.9 | 620 | 136720 | 35.6 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 8.0 | 625 | 126308 | 27.9 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 12.1 | 630 | 114625 | 20.7 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 18.1 | 635 | 103216 | 15.5 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 25.4 | 640 | 92605 | 11.1 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 33.9 | 645 | 83234 | 8.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 43.0 | 650 | 73263 | 5.4 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 50.1 | 655 | 64627 | 3.7 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 57.9 | 660 | 56614 | 2.4 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 64.0 | 665 | 49537 | 1.6 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.0 | 540 | 107316 | 69.9 | 670 | 42866 | 0.9 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.0 | 545 | 113101 | 75.3 | 675 | 36708 | 0.6 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 0.0 | 550 | 120690 | 82.0 | 680 | 31814 | 0.4 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 0.1 | 555 | 128583 | 87.8 | 685 | 27485 | 0.2 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 0.3 | 560 | 137796 | 93.6 | 690 | 23698 | 0.1 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 0.8 | 565 | 146577 | 97.5 | 695 | 20309 | 0.1 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 1.6 | 570 | 154581 | 100.5 | 700 | 17890 | 0.1 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 2.4 | 575 | 162633 | 101.2 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 2.5 | 580 | 168101 | 99.9 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 2.1 | 585 | 173145 | 96.2 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 1.8 | 590 | 174675 | 90.3 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 1.7 | 595 | 173724 | 82.3 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 1.5 | 600 | 171241 | 73.8 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 1.7 | 605 | 165134 | 64.0 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 2.2 | 610 | 156652 | 53.8 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 3.3 | 615 | 147879 | 44.6 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Scotopic Flux vs. Wavelength



Scotopic Lumens: 12126

S/P: 1.36

| 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 | 2672 | 0.0 | 490 | 34553 | 53.2 | 620 | 136720 | 1.7 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 71.7 | 625 | 126308 | 1.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 91.4 | 630 | 114625 | 0.6 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 110.0 | 635 | 103216 | 0.4 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 125.1 | 640 | 92605 | 0.2 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 135.7 | 645 | 83234 | 0.1 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 140.8 | 650 | 73263 | 0.1 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 139.6 | 655 | 64627 | 0.1 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 135.7 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.1 | 535 | 103269 | 128.7 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.2 | 540 | 107316 | 118.6 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.6 | 545 | 113101 | 108.4 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 2.0 | 550 | 120690 | 98.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 5.9 | 555 | 128583 | 87.9 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 14.3 | 560 | 137796 | 77.0 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 30.5 | 565 | 146577 | 65.8 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 55.5 | 570 | 154581 | 54.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 77.4 | 575 | 162633 | 44.3 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 73.6 | 580 | 168101 | 34.6 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 53.7 | 585 | 173145 | 26.5 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 41.9 | 590 | 174675 | 19.5 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 34.3 | 595 | 173724 | 13.9 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 27.9 | 600 | 171241 | 9.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 27.1 | 605 | 165134 | 6.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 31.3 | 610 | 156652 | 4.2 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 40.0 | 615 | 147879 | 2.7 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: 4490.7 M/P: 0.5

| 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 | 2672 | 0.0 | 490 | 34553 | 28.8 | 620 | 136720 | 0.1 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 36.6 | 625 | 126308 | 0.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 43.9 | 630 | 114625 | 0.0 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 49.6 | 635 | 103216 | 0.0 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 53.0 | 640 | 92605 | 0.0 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 53.5 | 645 | 83234 | 0.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 51.6 | 650 | 73263 | 0.0 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 47.3 | 655 | 64627 | 0.0 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 42.5 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 37.2 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.1 | 540 | 107316 | 31.4 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.4 | 545 | 113101 | 26.3 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 1.4 | 550 | 120690 | 21.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 3.7 | 555 | 128583 | 17.3 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 8.9 | 560 | 137796 | 13.6 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 18.2 | 565 | 146577 | 10.3 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 33.2 | 570 | 154581 | 7.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 45.6 | 575 | 162633 | 5.4 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 43.8 | 580 | 168101 | 3.8 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 32.2 | 585 | 173145 | 2.6 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 25.6 | 590 | 174675 | 1.7 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 21.2 | 595 | 173724 | 1.1 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 17.4 | 600 | 171241 | 0.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 16.6 | 605 | 165134 | 0.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 18.6 | 610 | 156652 | 0.3 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 22.7 | 615 | 147879 | 0.2 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

Summary

$R_f = 76.9$
 $R_g = 94.4$
 $CIE R_a = 73.1$
 $R_g = -34.6$



Color Vector Graphics

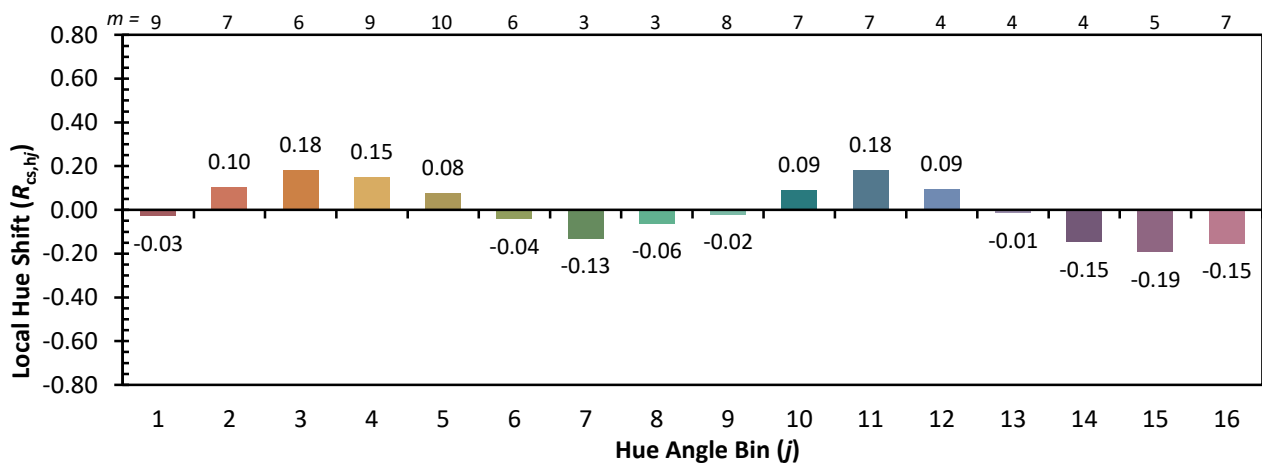


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)