

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: P641229

Luminaire Tested: GWS-SA5F-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22380.9 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

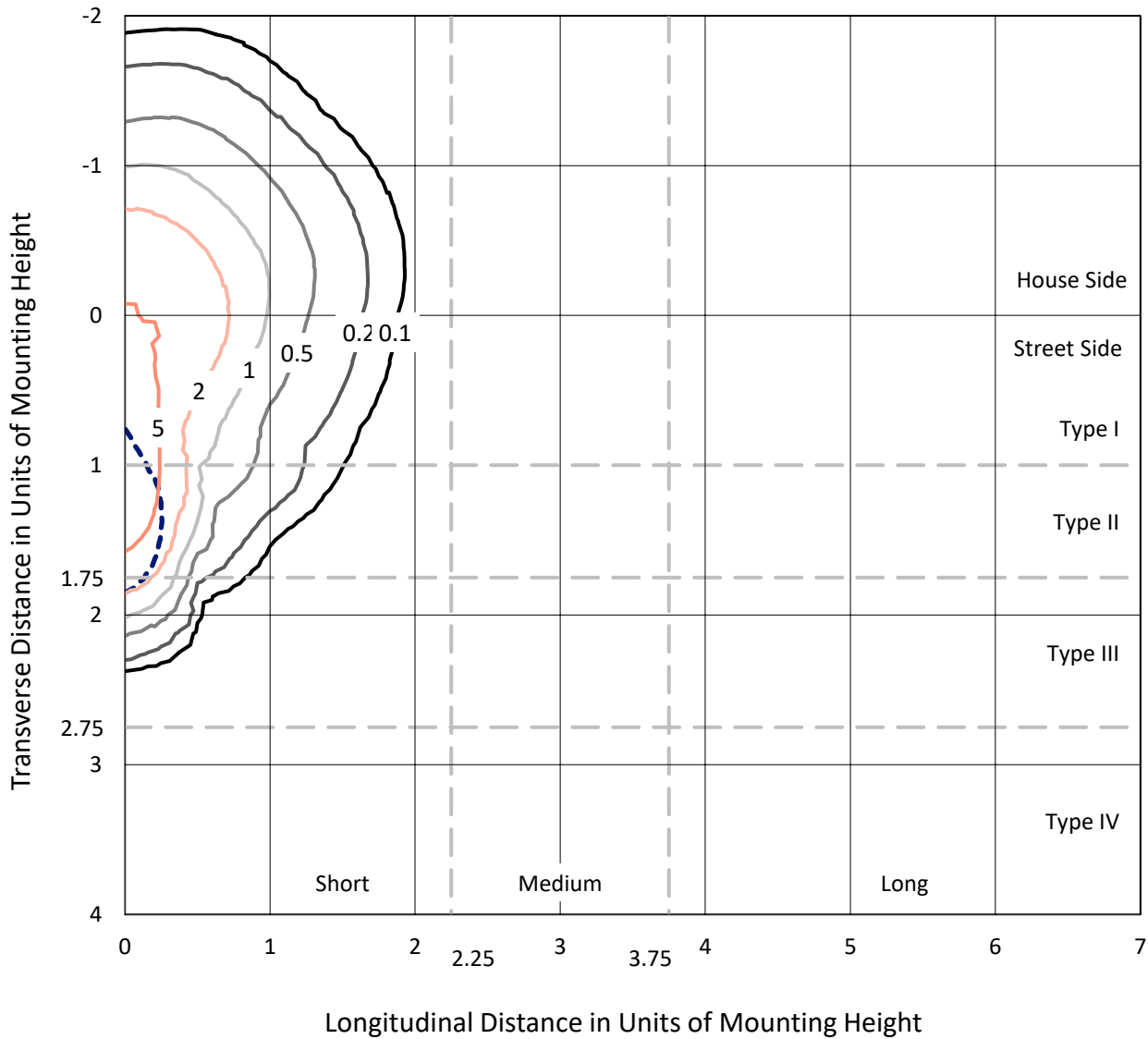
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

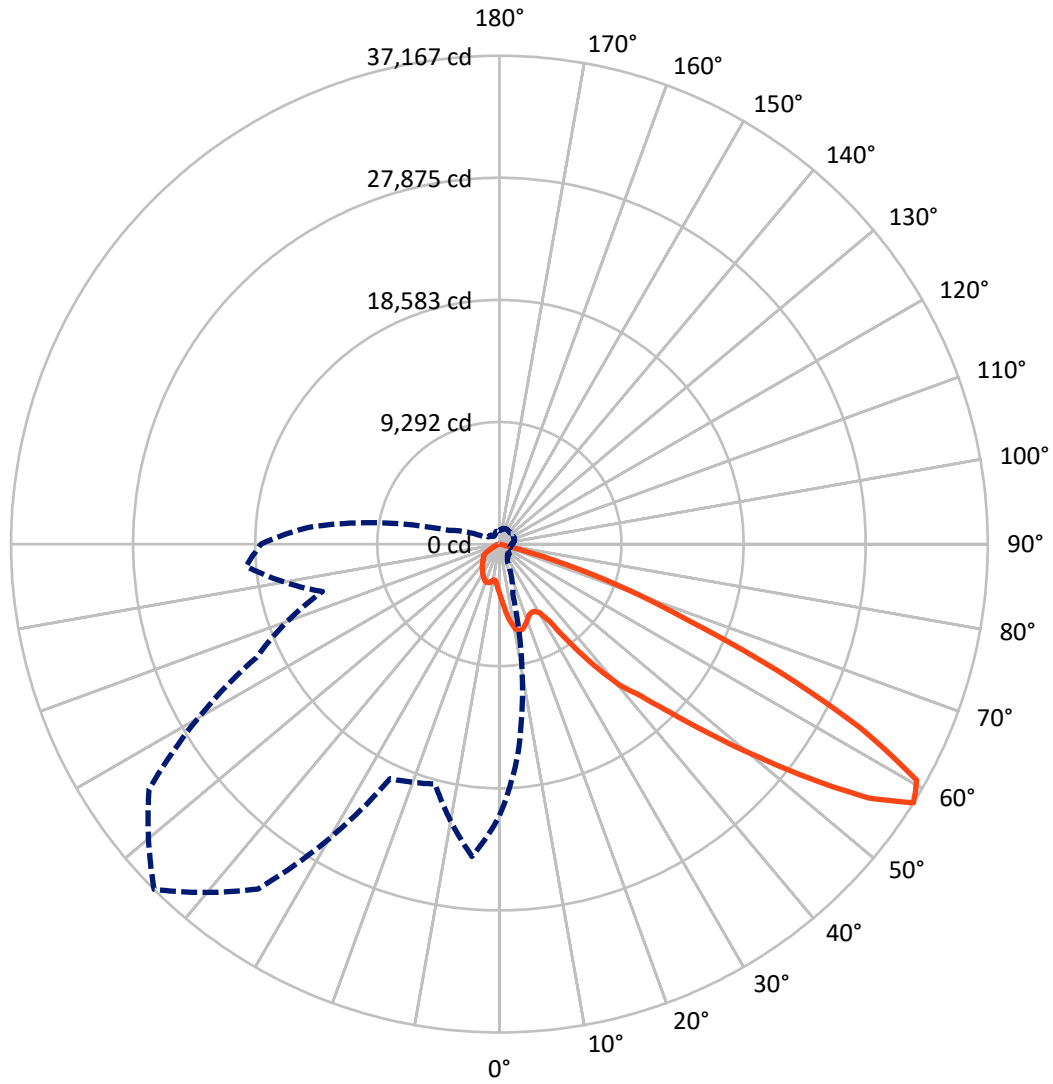
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4821.6 | 0.0 | 4821.6 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 17559.3 | 0.0 | 17559.3 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 22380.9 | 0.0 | 22380.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 375.9 | 1.7 |
| 10°-20° | 1236.8 | 5.5 |
| 20°-30° | 2007.2 | 9.0 |
| 30°-40° | 3080.5 | 13.8 |
| 40°-50° | 4919.8 | 22.0 |
| 50°-60° | 6888.7 | 30.8 |
| 60°-70° | 3532.0 | 15.8 |
| 70°-80° | 340.1 | 1.5 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 22380.9 | 100.0 |
| 0°-180° | 22380.9 | 100.0 |

Coefficient of Utilization



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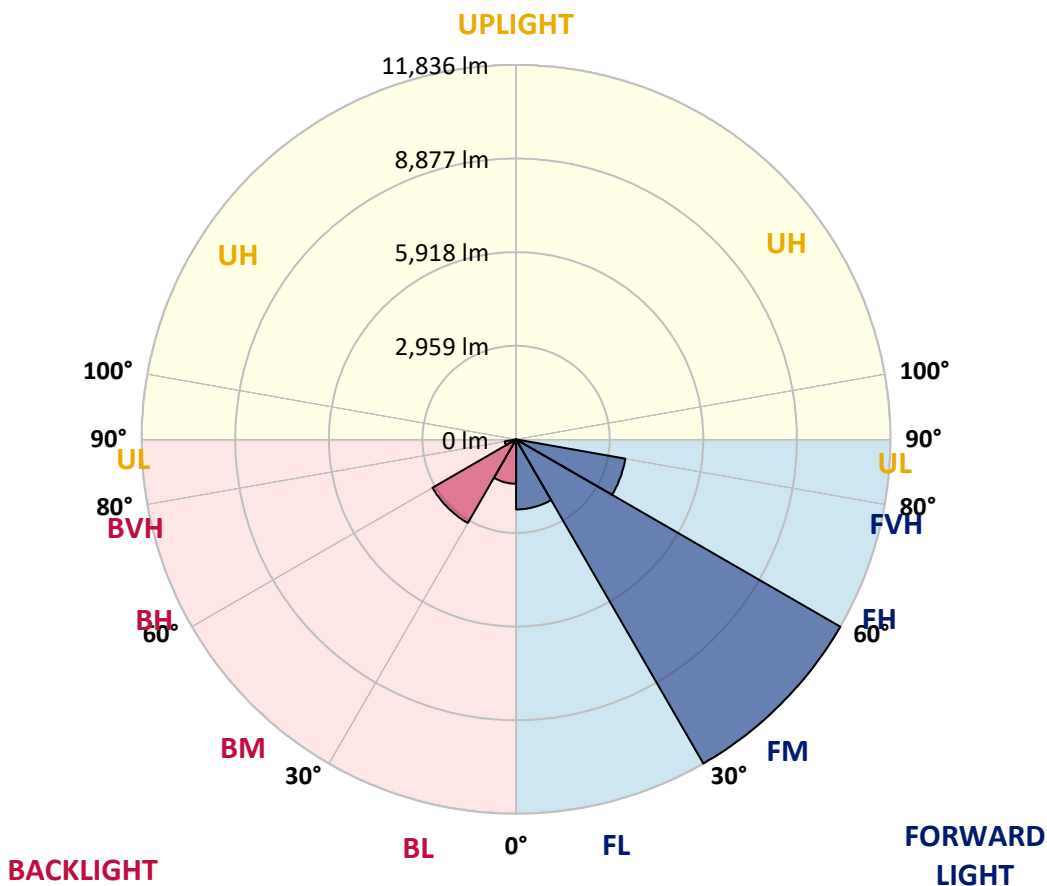
CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2215.9 | 9.9 | | | |
| FM (30°-60°) | 11835.5 | 52.9 | | | |
| FH (60°-80°) | 3507.9 | 15.7 | | | G2/5000 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1404.0 | 6.3 | B3/2500 | | |
| BM (30°-60°) | 3053.5 | 13.6 | B3/5000 | | |
| BH (60°-80°) | 364.1 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





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CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 |
| 2.5° | 4224.7 | 4215.7 | 4185.8 | 4084.1 | 4021.3 | 3922.5 | 3850.7 | 3758.0 | 3656.2 | 3593.4 | 3530.6 |
| 5° | 4673.5 | 4649.6 | 4568.8 | 4335.4 | 4155.9 | 3961.4 | 3805.8 | 3635.3 | 3452.8 | 3333.1 | 3222.4 |
| 7.5° | 5104.4 | 5068.5 | 4960.8 | 4565.8 | 4293.5 | 4015.3 | 3793.9 | 3545.5 | 3288.2 | 3108.7 | 2971.1 |
| 10° | 5526.2 | 5445.5 | 5274.9 | 4790.2 | 4422.2 | 4087.1 | 3826.8 | 3542.5 | 3240.3 | 3013.0 | 2860.4 |
| 12.5° | 5873.3 | 5813.5 | 5580.1 | 5002.6 | 4529.9 | 4102.0 | 3781.9 | 3518.6 | 3315.1 | 3162.6 | 3021.9 |
| 15° | 6172.5 | 6106.7 | 5885.3 | 5194.1 | 4622.7 | 4042.2 | 3593.4 | 3363.0 | 3395.9 | 3455.8 | 3336.1 |
| 17.5° | 6447.8 | 6379.0 | 6139.6 | 5352.7 | 4658.6 | 3895.6 | 3330.1 | 3219.4 | 3401.9 | 3626.3 | 3581.4 |
| 20° | 6732.0 | 6654.2 | 6361.0 | 5481.4 | 4646.6 | 3665.2 | 3063.8 | 3096.7 | 3354.0 | 3611.4 | 3635.3 |
| 22.5° | 7064.1 | 6983.4 | 6642.3 | 5645.9 | 4637.6 | 3389.9 | 2833.4 | 2989.0 | 3264.3 | 3482.7 | 3524.6 |
| 25° | 7504.0 | 7408.2 | 7034.2 | 5888.3 | 4661.6 | 3138.6 | 2668.9 | 2884.3 | 3111.7 | 3309.2 | 3333.1 |
| 27.5° | 8084.4 | 7961.7 | 7486.0 | 6187.5 | 4712.4 | 2941.1 | 2597.1 | 2740.7 | 2917.2 | 3093.7 | 3114.7 |
| 30° | 8841.4 | 8685.8 | 8003.6 | 6447.8 | 4688.5 | 2803.5 | 2549.2 | 2597.1 | 2701.8 | 2845.4 | 2848.4 |
| 32.5° | 9727.0 | 9514.6 | 8584.1 | 6672.2 | 4482.0 | 2701.8 | 2483.4 | 2450.5 | 2474.4 | 2585.1 | 2606.0 |
| 35° | 10768.2 | 10493.0 | 9224.4 | 6884.6 | 4105.0 | 2504.3 | 2363.7 | 2253.0 | 2244.0 | 2297.9 | 2348.7 |
| 37.5° | 11962.1 | 11632.9 | 10032.2 | 7156.9 | 3659.2 | 2297.9 | 2187.2 | 2076.5 | 2028.6 | 2055.5 | 2133.3 |
| 40° | 13063.1 | 12698.1 | 10876.0 | 7486.0 | 3204.4 | 2112.4 | 1980.7 | 1867.0 | 1810.2 | 1819.1 | 1914.9 |
| 42.5° | 14355.7 | 13978.7 | 11908.2 | 7916.9 | 2827.5 | 1986.7 | 1765.3 | 1648.6 | 1573.8 | 1615.7 | 1726.4 |
| 45° | 16318.4 | 15890.6 | 13413.2 | 8290.9 | 2528.2 | 1956.8 | 1576.8 | 1412.2 | 1376.3 | 1448.1 | 1579.8 |
| 47.5° | 18999.3 | 18475.7 | 15480.7 | 8518.3 | 2273.9 | 1983.7 | 1445.1 | 1220.7 | 1229.7 | 1310.5 | 1442.1 |
| 50° | 21659.2 | 21093.7 | 17871.3 | 8219.1 | 2064.5 | 1929.8 | 1379.3 | 1071.1 | 1128.0 | 1199.8 | 1319.5 |
| 52.5° | 23487.3 | 22751.3 | 19035.2 | 7354.4 | 1873.0 | 1726.4 | 1373.3 | 930.5 | 1038.2 | 1062.2 | 1163.9 |
| 55° | 23559.1 | 22652.5 | 18439.8 | 5798.5 | 1612.7 | 1457.1 | 1310.5 | 813.8 | 939.5 | 948.5 | 1035.2 |
| 57.5° | 20650.9 | 19831.1 | 16115.0 | 3982.4 | 1433.2 | 1068.1 | 1044.2 | 712.1 | 771.9 | 846.7 | 900.6 |
| 60° | 15711.1 | 15013.9 | 12051.8 | 1825.1 | 1089.1 | 679.2 | 715.1 | 613.4 | 577.5 | 688.2 | 742.0 |
| 62.5° | 9622.3 | 9176.5 | 7228.7 | 807.8 | 694.1 | 362.0 | 433.8 | 487.7 | 433.8 | 475.7 | 520.6 |
| 65° | 3820.8 | 3623.3 | 2743.7 | 344.1 | 284.2 | 182.5 | 197.5 | 284.2 | 305.2 | 335.1 | 377.0 |
| 67.5° | 664.2 | 628.3 | 460.8 | 152.6 | 116.7 | 110.7 | 95.7 | 131.6 | 185.5 | 206.4 | 239.4 |
| 70° | 86.8 | 83.8 | 74.8 | 62.8 | 59.8 | 53.9 | 41.9 | 83.8 | 125.7 | 131.6 | 152.6 |
| 72.5° | 20.9 | 18.0 | 18.0 | 15.0 | 18.0 | 6.0 | 6.0 | 44.9 | 89.8 | 92.8 | 107.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 56.8 | 62.8 | 74.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 |
| 2.5° | 3479.7 | 3419.9 | 3398.9 | 3369.0 | 3330.1 | 3342.1 | 3288.2 | 3270.3 | 3297.2 | 3333.1 | 3324.1 |
| 5° | 3162.6 | 3096.7 | 3051.9 | 2983.0 | 2971.1 | 2944.1 | 2926.2 | 2902.3 | 2932.2 | 2974.1 | 2983.0 |
| 7.5° | 2911.2 | 2854.4 | 2809.5 | 2788.6 | 2773.6 | 2761.6 | 2725.7 | 2707.8 | 2707.8 | 2725.7 | 2740.7 |
| 10° | 2803.5 | 2761.6 | 2752.7 | 2758.6 | 2782.6 | 2779.6 | 2746.7 | 2722.7 | 2692.8 | 2677.9 | 2695.8 |
| 12.5° | 2953.1 | 2884.3 | 2872.3 | 2875.3 | 2905.2 | 2902.3 | 2866.3 | 2836.4 | 2830.4 | 2836.4 | 2893.3 |
| 15° | 3207.4 | 3102.7 | 3024.9 | 3010.0 | 3024.9 | 3018.9 | 2992.0 | 2974.1 | 2983.0 | 3069.8 | 3165.5 |
| 17.5° | 3434.8 | 3273.3 | 3132.6 | 3078.8 | 3075.8 | 3066.8 | 3039.9 | 3033.9 | 3078.8 | 3240.3 | 3381.0 |
| 20° | 3500.7 | 3342.1 | 3141.6 | 3072.8 | 3057.8 | 3048.9 | 3018.9 | 3027.9 | 3084.8 | 3279.2 | 3398.9 |
| 22.5° | 3413.9 | 3261.3 | 3051.9 | 2983.0 | 2971.1 | 2968.1 | 2938.2 | 2950.1 | 2998.0 | 3168.5 | 3267.3 |
| 25° | 3249.3 | 3120.7 | 2902.3 | 2842.4 | 2842.4 | 2836.4 | 2809.5 | 2815.5 | 2845.4 | 2995.0 | 3090.7 |
| 27.5° | 3048.9 | 2926.2 | 2743.7 | 2683.8 | 2692.8 | 2701.8 | 2668.9 | 2659.9 | 2683.8 | 2824.5 | 2881.3 |
| 30° | 2818.5 | 2731.7 | 2588.1 | 2534.2 | 2531.2 | 2567.1 | 2522.3 | 2510.3 | 2543.2 | 2653.9 | 2665.9 |
| 32.5° | 2594.1 | 2552.2 | 2450.5 | 2408.6 | 2411.6 | 2417.5 | 2393.6 | 2393.6 | 2423.5 | 2483.4 | 2480.4 |
| 35° | 2375.7 | 2348.7 | 2330.8 | 2300.9 | 2297.9 | 2285.9 | 2285.9 | 2291.9 | 2324.8 | 2345.7 | 2306.8 |
| 37.5° | 2166.2 | 2193.1 | 2214.1 | 2184.2 | 2160.2 | 2160.2 | 2160.2 | 2187.2 | 2217.1 | 2208.1 | 2142.3 |
| 40° | 1980.7 | 2037.6 | 2103.4 | 2070.5 | 2013.6 | 2010.6 | 2022.6 | 2067.5 | 2112.4 | 2058.5 | 1998.7 |
| 42.5° | 1822.1 | 1893.9 | 1986.7 | 1968.7 | 1905.9 | 1896.9 | 1905.9 | 1962.8 | 1998.7 | 1929.8 | 1864.0 |
| 45° | 1666.6 | 1756.3 | 1867.0 | 1867.0 | 1798.2 | 1789.2 | 1792.2 | 1867.0 | 1888.0 | 1807.2 | 1723.4 |
| 47.5° | 1534.9 | 1633.6 | 1750.3 | 1750.3 | 1693.5 | 1675.5 | 1690.5 | 1768.3 | 1783.2 | 1669.5 | 1591.8 |
| 50° | 1409.2 | 1516.9 | 1645.6 | 1636.6 | 1597.7 | 1582.8 | 1609.7 | 1693.5 | 1675.5 | 1549.9 | 1469.1 |
| 52.5° | 1250.7 | 1364.4 | 1540.9 | 1549.9 | 1528.9 | 1531.9 | 1564.8 | 1618.7 | 1567.8 | 1415.2 | 1346.4 |
| 55° | 1107.0 | 1223.7 | 1400.3 | 1448.1 | 1448.1 | 1445.1 | 1460.1 | 1502.0 | 1460.1 | 1277.6 | 1193.8 |
| 57.5° | 951.5 | 1050.2 | 1196.8 | 1208.8 | 1217.7 | 1184.8 | 1205.8 | 1262.6 | 1241.7 | 1086.1 | 1038.2 |
| 60° | 780.9 | 864.7 | 948.5 | 957.4 | 918.5 | 849.7 | 888.6 | 954.5 | 969.4 | 852.7 | 798.9 |
| 62.5° | 553.5 | 634.3 | 733.0 | 733.0 | 694.1 | 625.3 | 676.2 | 733.0 | 712.1 | 592.4 | 559.5 |
| 65° | 412.9 | 487.7 | 562.5 | 595.4 | 562.5 | 514.6 | 553.5 | 595.4 | 562.5 | 463.8 | 415.9 |
| 67.5° | 266.3 | 317.2 | 362.0 | 389.0 | 394.9 | 389.0 | 406.9 | 394.9 | 356.0 | 290.2 | 263.3 |
| 70° | 161.6 | 188.5 | 212.4 | 236.4 | 254.3 | 263.3 | 272.3 | 245.3 | 206.4 | 170.5 | 161.6 |
| 72.5° | 116.7 | 140.6 | 161.6 | 179.5 | 200.5 | 206.4 | 206.4 | 188.5 | 152.6 | 119.7 | 110.7 |
| 75° | 80.8 | 101.7 | 119.7 | 131.6 | 149.6 | 155.6 | 155.6 | 140.6 | 113.7 | 86.8 | 77.8 |
| 77.5° | 3.0 | 20.9 | 20.9 | 18.0 | 23.9 | 29.9 | 29.9 | 35.9 | 32.9 | 23.9 | 20.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



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CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 |
| 2.5° | 3342.1 | 3449.8 | 3479.7 | 3590.4 | 3689.2 | 3787.9 | 3907.6 | 3979.4 | 4087.1 | 4161.9 | 4203.8 |
| 5° | 3013.0 | 3102.7 | 3210.4 | 3375.0 | 3545.5 | 3734.0 | 3961.4 | 4158.9 | 4407.2 | 4589.7 | 4649.6 |
| 7.5° | 2773.6 | 2890.3 | 3015.9 | 3222.4 | 3455.8 | 3707.1 | 4027.2 | 4350.4 | 4730.4 | 4978.7 | 5137.3 |
| 10° | 2728.7 | 2848.4 | 3015.9 | 3219.4 | 3464.7 | 3752.0 | 4143.9 | 4562.8 | 5038.5 | 5340.7 | 5520.3 |
| 12.5° | 2944.1 | 3072.8 | 3144.6 | 3237.4 | 3422.9 | 3743.0 | 4245.7 | 4778.2 | 5337.7 | 5666.9 | 5858.4 |
| 15° | 3261.3 | 3375.0 | 3258.3 | 3141.6 | 3261.3 | 3647.3 | 4302.5 | 4957.8 | 5601.0 | 5981.0 | 6178.5 |
| 17.5° | 3479.7 | 3488.7 | 3234.4 | 2986.0 | 3018.9 | 3473.7 | 4323.5 | 5137.3 | 5882.3 | 6280.2 | 6486.7 |
| 20° | 3458.8 | 3387.0 | 3129.6 | 2854.4 | 2752.7 | 3249.3 | 4299.5 | 5295.9 | 6166.5 | 6582.4 | 6785.9 |
| 22.5° | 3297.2 | 3213.4 | 2995.0 | 2725.7 | 2528.2 | 2983.0 | 4257.6 | 5439.5 | 6426.8 | 6899.6 | 7091.1 |
| 25° | 3102.7 | 3013.0 | 2833.4 | 2597.1 | 2384.6 | 2725.7 | 4224.7 | 5636.9 | 6756.0 | 7312.5 | 7462.1 |
| 27.5° | 2875.3 | 2797.5 | 2644.9 | 2474.4 | 2324.8 | 2531.2 | 4215.7 | 5897.3 | 7153.9 | 7815.1 | 7919.9 |
| 30° | 2653.9 | 2582.1 | 2462.4 | 2363.7 | 2300.9 | 2417.5 | 4185.8 | 6175.5 | 7629.6 | 8392.6 | 8506.3 |
| 32.5° | 2441.5 | 2369.7 | 2294.9 | 2279.9 | 2282.9 | 2375.7 | 4084.1 | 6450.8 | 8195.1 | 9230.4 | 9314.1 |
| 35° | 2259.0 | 2175.2 | 2145.3 | 2181.2 | 2247.0 | 2303.8 | 3796.9 | 6678.2 | 8802.5 | 10142.9 | 10211.7 |
| 37.5° | 2085.4 | 2001.7 | 1998.7 | 2085.4 | 2157.2 | 2193.1 | 3458.8 | 6902.6 | 9622.3 | 11070.4 | 11157.2 |
| 40° | 1926.9 | 1843.1 | 1873.0 | 1977.7 | 2034.6 | 2052.5 | 3048.9 | 7243.7 | 10490.0 | 12048.8 | 12001.0 |
| 42.5° | 1792.2 | 1705.4 | 1723.4 | 1858.0 | 1908.9 | 1956.8 | 2671.9 | 7527.9 | 11324.8 | 12976.4 | 12961.4 |
| 45° | 1660.6 | 1594.7 | 1582.8 | 1729.4 | 1774.3 | 1965.8 | 2396.6 | 7746.3 | 12398.9 | 14158.2 | 14182.1 |
| 47.5° | 1531.9 | 1481.0 | 1484.0 | 1546.9 | 1657.6 | 2010.6 | 2163.2 | 7889.9 | 13957.7 | 16031.2 | 15615.3 |
| 50° | 1415.2 | 1376.3 | 1409.2 | 1337.4 | 1582.8 | 1953.8 | 1962.8 | 7860.0 | 15699.1 | 17826.4 | 16991.6 |
| 52.5° | 1286.6 | 1277.6 | 1292.5 | 1119.0 | 1463.1 | 1723.4 | 1774.3 | 7462.1 | 16515.9 | 19053.1 | 18577.4 |
| 55° | 1154.9 | 1151.9 | 1032.2 | 894.6 | 1223.7 | 1376.3 | 1519.9 | 6226.4 | 16489.0 | 19705.4 | 20282.8 |
| 57.5° | 999.3 | 975.4 | 783.9 | 730.1 | 951.5 | 957.4 | 1385.3 | 4078.1 | 14613.0 | 18143.6 | 19340.4 |
| 60° | 757.0 | 739.0 | 574.5 | 592.4 | 664.2 | 613.4 | 1104.1 | 2031.6 | 10920.8 | 14134.3 | 15483.7 |
| 62.5° | 523.6 | 499.7 | 427.9 | 457.8 | 427.9 | 350.1 | 676.2 | 1005.3 | 6615.3 | 8925.2 | 10148.9 |
| 65° | 383.0 | 356.0 | 293.2 | 251.3 | 200.5 | 200.5 | 257.3 | 386.0 | 2561.2 | 3793.9 | 4574.8 |
| 67.5° | 236.4 | 224.4 | 173.5 | 125.7 | 122.7 | 131.6 | 134.6 | 191.5 | 412.9 | 658.2 | 804.9 |
| 70° | 152.6 | 140.6 | 116.7 | 80.8 | 74.8 | 77.8 | 80.8 | 89.8 | 104.7 | 113.7 | 137.6 |
| 72.5° | 104.7 | 98.7 | 83.8 | 44.9 | 35.9 | 38.9 | 41.9 | 41.9 | 50.9 | 47.9 | 56.8 |
| 75° | 74.8 | 68.8 | 59.8 | 20.9 | 12.0 | 15.0 | 18.0 | 15.0 | 18.0 | 12.0 | 15.0 |
| 77.5° | 20.9 | 20.9 | 15.0 | 3.0 | 0.0 | 3.0 | 6.0 | 6.0 | 3.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 |



REPORT NUMBER: P641229

CATALOG NUMBER: GWS-SA5F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 | 3802.8 |
| 2.5° | 4311.5 | 4380.3 | 4407.2 | 4368.3 | 4401.2 | 4347.4 | 4326.4 | 4245.7 | 4239.7 | 4224.7 |
| 5° | 4891.9 | 5047.5 | 5140.3 | 5197.1 | 5131.3 | 5059.5 | 4951.8 | 4766.3 | 4709.4 | 4673.5 |
| 7.5° | 5463.4 | 5705.8 | 5864.3 | 5939.1 | 5921.2 | 5774.6 | 5580.1 | 5268.9 | 5158.2 | 5104.4 |
| 10° | 5960.1 | 6256.3 | 6447.8 | 6540.5 | 6501.6 | 6373.0 | 6094.7 | 5705.8 | 5559.2 | 5526.2 |
| 12.5° | 6307.2 | 6579.4 | 6711.1 | 6791.9 | 6794.9 | 6744.0 | 6480.7 | 6088.7 | 5915.2 | 5873.3 |
| 15° | 6525.6 | 6642.3 | 6645.3 | 6693.1 | 6776.9 | 6890.6 | 6767.9 | 6420.9 | 6235.4 | 6172.5 |
| 17.5° | 6663.2 | 6534.6 | 6402.9 | 6414.9 | 6552.5 | 6854.7 | 6980.4 | 6714.1 | 6516.6 | 6447.8 |
| 20° | 6761.9 | 6355.0 | 6109.7 | 6112.7 | 6253.3 | 6711.1 | 7127.0 | 6998.3 | 6794.9 | 6732.0 |
| 22.5° | 6824.8 | 6196.5 | 5846.4 | 5837.4 | 5987.0 | 6540.5 | 7261.6 | 7336.4 | 7135.9 | 7064.1 |
| 25° | 6953.4 | 6121.7 | 5687.8 | 5738.7 | 5870.3 | 6486.7 | 7444.1 | 7785.2 | 7599.7 | 7504.0 |
| 27.5° | 7183.8 | 6196.5 | 5672.9 | 5789.5 | 5939.1 | 6645.3 | 7761.3 | 8383.6 | 8192.1 | 8084.4 |
| 30° | 7581.8 | 6477.7 | 5903.2 | 6064.8 | 6244.3 | 7061.1 | 8293.9 | 9218.4 | 8943.1 | 8841.4 |
| 32.5° | 8222.0 | 7061.1 | 6615.3 | 6962.4 | 7135.9 | 7743.3 | 9092.7 | 10154.9 | 9930.5 | 9727.0 |
| 35° | 9104.7 | 8392.6 | 8341.7 | 9149.6 | 9107.7 | 9035.9 | 10074.1 | 11303.8 | 10965.7 | 10768.2 |
| 37.5° | 10319.4 | 10534.9 | 10911.9 | 11713.7 | 11686.8 | 11139.3 | 11363.7 | 12389.9 | 12216.4 | 11962.1 |
| 40° | 11836.4 | 12294.2 | 12934.5 | 14083.4 | 13724.4 | 13036.2 | 12946.4 | 13502.9 | 13362.3 | 13063.1 |
| 42.5° | 12731.0 | 13520.9 | 14741.6 | 15773.9 | 15486.7 | 14283.9 | 14182.1 | 14990.0 | 14681.8 | 14355.7 |
| 45° | 13146.9 | 14520.2 | 16913.8 | 18311.1 | 17440.4 | 15112.6 | 15073.8 | 16928.8 | 16755.3 | 16318.4 |
| 47.5° | 13338.4 | 15528.5 | 19457.1 | 21572.4 | 19944.7 | 15839.7 | 15699.1 | 19741.3 | 19513.9 | 18999.3 |
| 50° | 13550.8 | 16919.8 | 22520.9 | 25351.3 | 22969.7 | 16662.5 | 16764.2 | 22362.3 | 22266.5 | 21659.2 |
| 52.5° | 14017.6 | 18391.9 | 26293.8 | 29671.8 | 26637.9 | 17952.1 | 18592.4 | 24833.7 | 24187.4 | 23487.3 |
| 55° | 14717.7 | 19995.6 | 30219.3 | 34085.0 | 30380.9 | 19684.4 | 20570.1 | 26147.2 | 24334.0 | 23559.1 |
| 57.5° | 13942.8 | 20396.5 | 32544.1 | 37166.8 | 32041.5 | 19690.4 | 18897.5 | 23870.3 | 21401.9 | 20650.9 |
| 60° | 11064.5 | 18975.3 | 31649.5 | 36499.5 | 30626.2 | 17485.3 | 14469.4 | 18637.2 | 16213.7 | 15711.1 |
| 62.5° | 7480.0 | 15914.5 | 27861.6 | 30868.6 | 26213.0 | 13754.3 | 9403.9 | 12120.6 | 10038.2 | 9622.3 |
| 65° | 4099.1 | 11872.3 | 22511.9 | 23352.6 | 20516.2 | 9607.3 | 4838.1 | 5260.0 | 4006.3 | 3820.8 |
| 67.5° | 1131.0 | 8263.9 | 16563.8 | 15492.6 | 14394.6 | 6256.3 | 1250.7 | 939.5 | 670.2 | 664.2 |
| 70° | 284.2 | 5466.4 | 9924.5 | 10229.7 | 8826.4 | 4006.3 | 239.4 | 113.7 | 89.8 | 86.8 |
| 72.5° | 119.7 | 2351.7 | 4709.4 | 5412.5 | 4517.9 | 1855.0 | 86.8 | 32.9 | 26.9 | 20.9 |
| 75° | 15.0 | 188.5 | 400.9 | 607.4 | 415.9 | 200.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 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 |

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW, INVUE, LUMARK AND STREETWORKS

DATA VALID FOR LUMINIAIRES UTILIZING SA LIGHT ENGINES

Report Number: SP1-2101-121-2

Luminaire Tested: IFLD-S-SA2A-740-U-T3R-HSS

Test Date: 03/05/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/05/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-740-U-T3R-HSS**
 Description: STREETWORKS INF FLOOD

SHIELD, DRIVER PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K): | 3905 | CRI (Ra): | 71.2 | R9: | -29.7 |
| CIE u': | 0.2273 | R1: | 68.9 | R10: | 46.2 |
| CIE v': | 0.5024 | R2: | 77.0 | R11: | 68.8 |
| Duv: | -0.0008 | R3: | 84.0 | R12: | 45.6 |
| CIE x: | 0.3841 | R4: | 71.6 | R13: | 69.5 |
| CIE y: | 0.3774 | R5: | 68.9 | R14: | 90.7 |
| CIE z: | 0.2385 | R6: | 68.3 | | |
| Peak Wavelength (nm): | 443 | R7: | 78.7 | | |
| Dominant Wavelength (nm): | 579 | R8: | 52.2 | | |
| Purity: | 28.7 | | | | |
| Rf: | 71.7 | | | | |
| Rg: | 96.9 | | | | |



Test Conditions

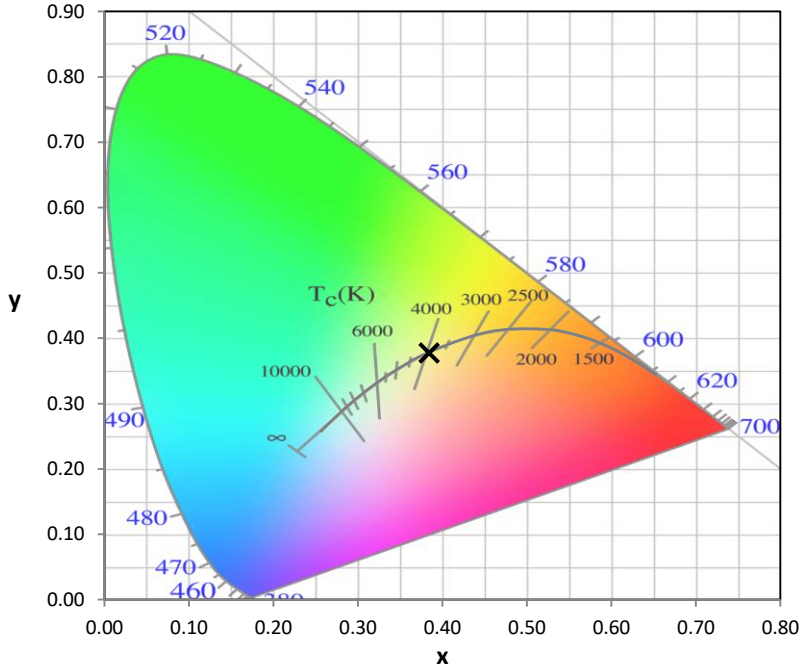
Stabilization Time: 211M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.8/312%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-2

| 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: SP1-2101-121-2

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-2

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 | 2304 | 0.0 | 490 | 19043 | 2.7 | 620 | 97577 | 25.4 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 4.8 | 625 | 90158 | 19.9 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 8.0 | 630 | 82240 | 14.9 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 13.3 | 635 | 74361 | 11.2 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 20.2 | 640 | 66994 | 8.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 28.5 | 645 | 60405 | 5.8 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 37.4 | 650 | 53806 | 3.9 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 44.9 | 655 | 47610 | 2.7 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 52.6 | 660 | 42018 | 1.8 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 58.4 | 665 | 36742 | 1.2 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.0 | 540 | 96845 | 63.1 | 670 | 32105 | 0.7 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.0 | 545 | 100829 | 67.1 | 675 | 27946 | 0.5 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 0.1 | 550 | 105648 | 71.8 | 680 | 24146 | 0.3 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 0.2 | 555 | 110017 | 75.1 | 685 | 21191 | 0.2 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 0.5 | 560 | 114586 | 77.9 | 690 | 18544 | 0.1 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 1.2 | 565 | 118987 | 79.1 | 695 | 16058 | 0.1 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 2.1 | 570 | 122326 | 79.5 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 2.9 | 575 | 125968 | 78.4 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 2.7 | 580 | 127613 | 75.8 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 2.0 | 585 | 129466 | 71.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 1.5 | 590 | 128813 | 66.6 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 1.3 | 595 | 126387 | 59.9 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 1.0 | 600 | 123477 | 53.2 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 1.1 | 605 | 118718 | 46.0 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 1.2 | 610 | 112091 | 38.5 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 1.7 | 615 | 105039 | 31.7 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: 10425.8 S/P: 1.47

| 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 | 2304 | 0.0 | 490 | 19043 | 29.3 | 620 | 97577 | 1.2 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 43.0 | 625 | 90158 | 0.8 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 60.8 | 630 | 82240 | 0.5 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 81.1 | 635 | 74361 | 0.3 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 99.6 | 640 | 66994 | 0.2 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 113.9 | 645 | 60405 | 0.1 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 122.6 | 650 | 53806 | 0.1 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 125.0 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 123.1 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.1 | 535 | 94097 | 117.3 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 107.0 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.9 | 545 | 100829 | 96.7 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 3.0 | 550 | 105648 | 86.4 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 9.3 | 555 | 110017 | 75.2 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 23.0 | 560 | 114586 | 64.0 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 45.7 | 565 | 118987 | 53.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 75.5 | 570 | 122326 | 43.2 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 93.8 | 575 | 125968 | 34.3 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 79.3 | 580 | 127613 | 26.3 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 51.3 | 585 | 129466 | 19.8 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 35.6 | 590 | 128813 | 14.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 26.0 | 595 | 126387 | 10.1 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 19.3 | 600 | 123477 | 7.0 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 16.8 | 605 | 118718 | 4.7 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 17.7 | 610 | 112091 | 3.0 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 21.4 | 615 | 105039 | 1.9 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3927.2 M/P: 0.55

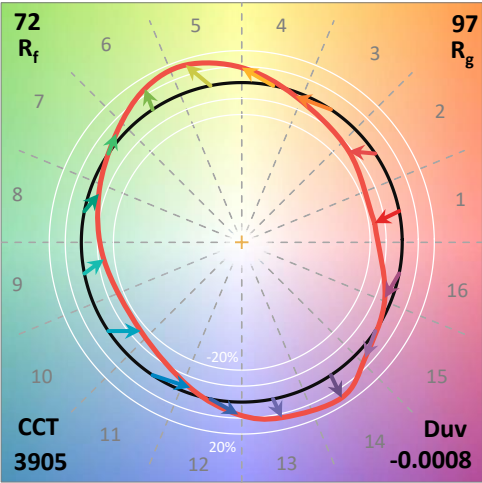
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 15.8 | 620 | 97577 | 0.1 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 22.0 | 625 | 90158 | 0.0 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 29.2 | 630 | 82240 | 0.0 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 36.6 | 635 | 74361 | 0.0 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 42.2 | 640 | 66994 | 0.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 44.9 | 645 | 60405 | 0.0 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 44.9 | 650 | 53806 | 0.0 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 42.4 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 38.6 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 33.9 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 28.3 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.6 | 545 | 100829 | 23.4 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 2.1 | 550 | 105648 | 19.0 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 5.9 | 555 | 110017 | 14.8 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 14.3 | 560 | 114586 | 11.3 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 27.3 | 565 | 118987 | 8.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 45.1 | 570 | 122326 | 6.0 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 55.3 | 575 | 125968 | 4.2 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 47.2 | 580 | 127613 | 2.9 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 30.8 | 585 | 129466 | 1.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 21.7 | 590 | 128813 | 1.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 16.1 | 595 | 126387 | 0.8 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 12.0 | 600 | 123477 | 0.5 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 10.3 | 605 | 118718 | 0.3 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 10.5 | 610 | 112091 | 0.2 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 12.1 | 615 | 105039 | 0.1 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

Summary

$R_f = 71.7$
 $R_g = 96.9$
 CIE $R_a = 71.2$
 $R_g = -29.7$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 55 | CES51 = 86 | CES76 = 45 |
| CES02 = 61 | CES27 = 80 | CES52 = 87 | CES77 = 68 |
| CES03 = 30 | CES28 = 79 | CES53 = 74 | CES78 = 49 |
| CES04 = 70 | CES29 = 51 | CES54 = 81 | CES79 = 77 |
| CES05 = 47 | CES30 = 60 | CES55 = 80 | CES80 = 75 |
| CES06 = 50 | CES31 = 56 | CES56 = 69 | CES81 = 75 |
| CES07 = 40 | CES32 = 52 | CES57 = 67 | CES82 = 90 |
| CES08 = 39 | CES33 = 62 | CES58 = 69 | CES83 = 85 |
| CES09 = 29 | CES34 = 65 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 81 | CES60 = 91 | CES85 = 83 |
| CES11 = 57 | CES36 = 92 | CES61 = 85 | CES86 = 72 |
| CES12 = 63 | CES37 = 74 | CES62 = 81 | CES87 = 77 |
| CES13 = 42 | CES38 = 69 | CES63 = 72 | CES88 = 77 |
| CES14 = 74 | CES39 = 92 | CES64 = 69 | CES89 = 72 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 75 |
| CES16 = 46 | CES41 = 84 | CES66 = 63 | CES91 = 91 |
| CES17 = 49 | CES42 = 75 | CES67 = 60 | CES92 = 66 |
| CES18 = 56 | CES43 = 70 | CES68 = 67 | CES93 = 80 |
| CES19 = 72 | CES44 = 98 | CES69 = 77 | CES94 = 56 |
| CES20 = 65 | CES45 = 80 | CES70 = 57 | CES95 = 72 |
| CES21 = 86 | CES46 = 77 | CES71 = 53 | CES96 = 78 |
| CES22 = 78 | CES47 = 74 | CES72 = 84 | CES97 = 83 |
| CES23 = 92 | CES48 = 66 | CES73 = 47 | CES98 = 73 |
| CES24 = 91 | CES49 = 76 | CES74 = 96 | CES99 = 63 |
| CES25 = 72 | CES50 = 85 | CES75 = 52 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)