

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: P642171

Luminaire Tested: GWS-SA6C-735-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-735-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

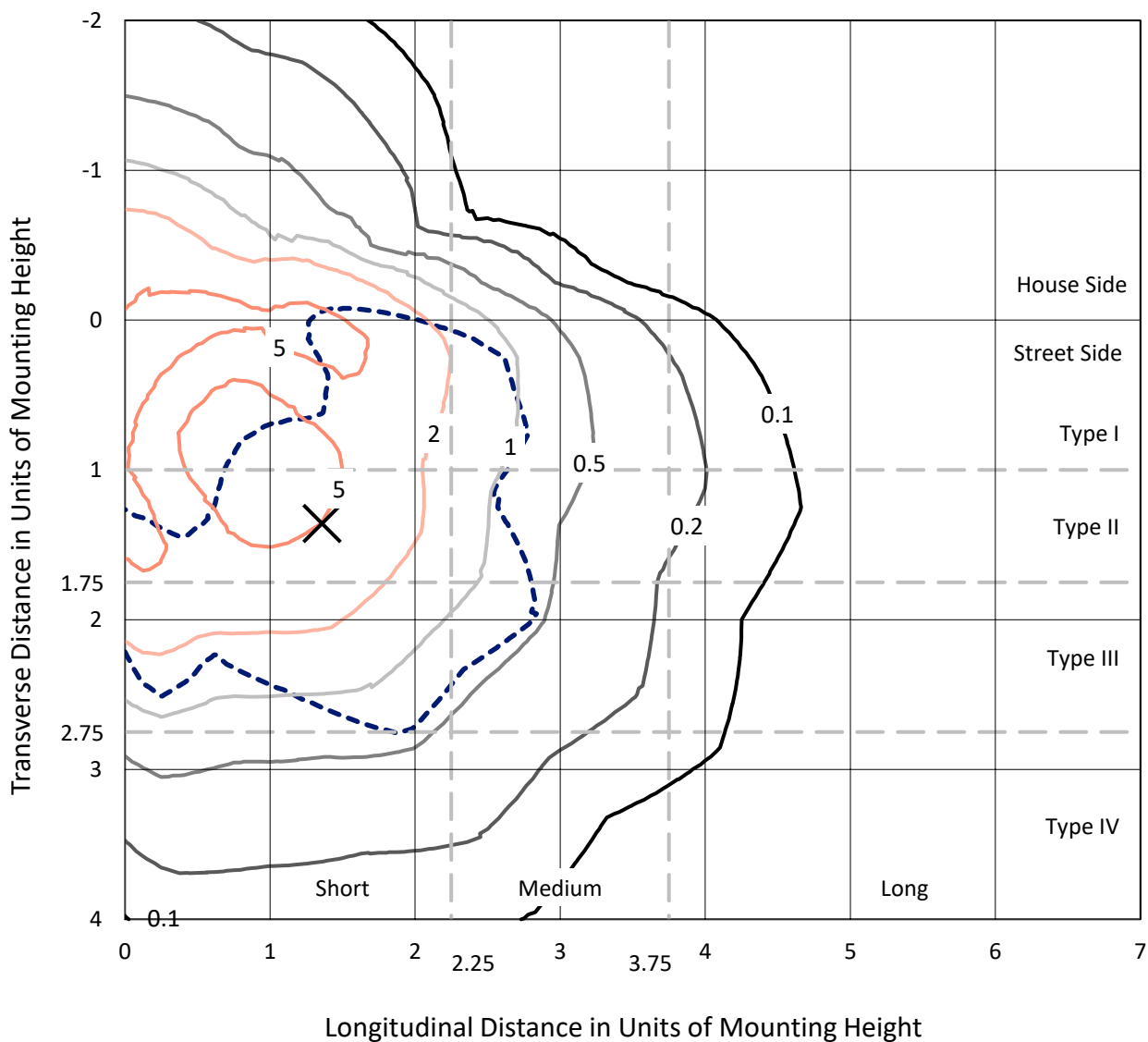
Lumens per Lamp: N/A  
Luminaire Lumens: 26516.9 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): 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

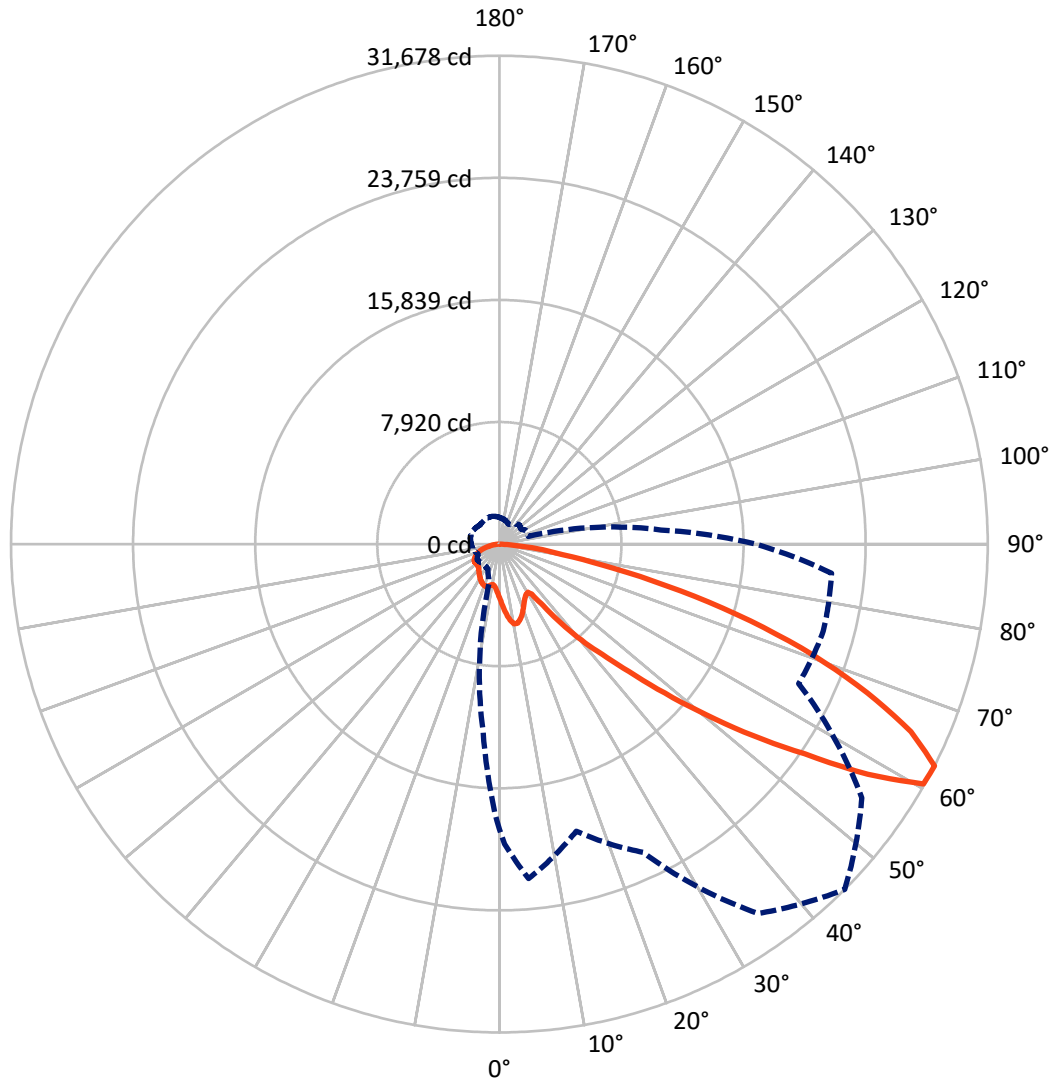
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6327.4   | 0.0    | 6327.4  |
|                    | % Fixture | 23.9     | 0.0    | 23.9    |
| <b>Street Side</b> | Lumens    | 20189.5  | 0.0    | 20189.5 |
|                    | % Fixture | 76.1     | 0.0    | 76.1    |
| <b>Total</b>       | Lumens    | 26516.9  | 0.0    | 26516.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.7   | 1.3       |
| 10°-20°   | 1077.5  | 4.1       |
| 20°-30°   | 1673.6  | 6.3       |
| 30°-40°   | 2272.2  | 8.6       |
| 40°-50°   | 3601.3  | 13.6      |
| 50°-60°   | 6352.7  | 24.0      |
| 60°-70°   | 7068.3  | 26.7      |
| 70°-80°   | 3584.8  | 13.5      |
| 80°-90°   | 542.8   | 2.0       |
| 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°    | 26516.9 | 100.0     |
| 0°-180°   | 26516.9 | 100.0     |

**Coefficient of Utilization**



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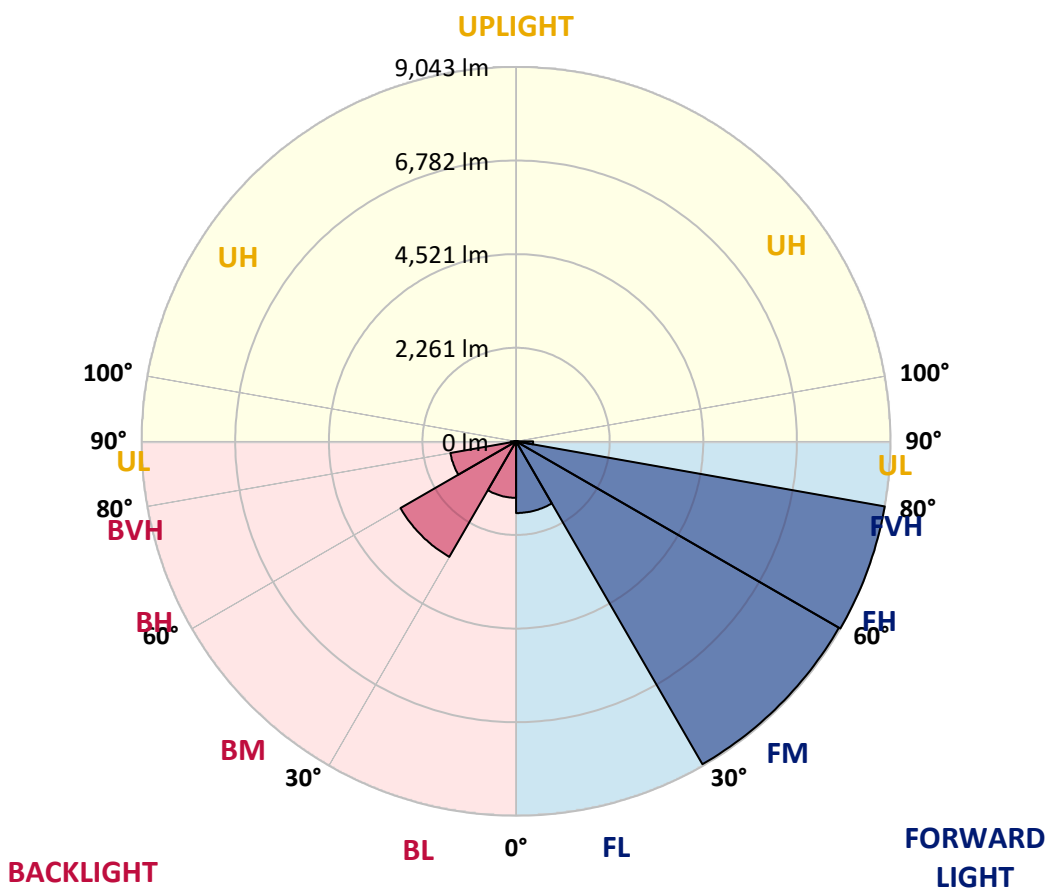
CATALOG NUMBER: GWS-SA6C-735-U-SLR-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1731.3 | 6.5       |                         |      |          |
| FM (30°-60°)   | 9003.6 | 34.0      |                         |      |          |
| FH (60°-80°)   | 9042.5 | 34.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 412.0  | 1.6       |                         |      | G3/500   |
| BL (0°-30°)    | 1363.4 | 5.1       | B3/2500                 |      |          |
| BM (30°-60°)   | 3222.6 | 12.2      | B3/5000                 |      |          |
| BH (60°-80°)   | 1610.6 | 6.1       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 130.8  | 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°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  | 3519.3  |
| 2.5°  | 3782.3  | 3780.3  | 3818.5  | 3876.7  | 3930.9  | 3955.0  | 3995.1  | 3991.1  | 3959.0  | 3916.8  | 3902.8  |
| 5°    | 4079.5  | 4087.5  | 4153.7  | 4282.2  | 4424.8  | 4485.0  | 4511.1  | 4501.1  | 4442.8  | 4368.6  | 4238.1  |
| 7.5°  | 4348.5  | 4362.5  | 4464.9  | 4657.6  | 4834.3  | 4914.6  | 4978.9  | 4966.8  | 4882.5  | 4744.0  | 4551.2  |
| 10°   | 4545.2  | 4561.3  | 4683.7  | 4910.6  | 5107.4  | 5177.6  | 5259.9  | 5263.9  | 5189.7  | 5003.0  | 4806.2  |
| 12.5° | 4742.0  | 4758.0  | 4872.5  | 5079.2  | 5207.7  | 5209.7  | 5257.9  | 5284.0  | 5288.0  | 5201.7  | 5005.0  |
| 15°   | 4946.7  | 4960.8  | 5065.2  | 5181.6  | 5175.6  | 5063.2  | 5063.2  | 5113.4  | 5223.8  | 5286.0  | 5149.5  |
| 17.5° | 5121.4  | 5139.5  | 5219.8  | 5181.6  | 5003.0  | 4800.2  | 4776.1  | 4840.3  | 5033.1  | 5272.0  | 5257.9  |
| 20°   | 5266.0  | 5280.0  | 5324.2  | 5071.2  | 4746.0  | 4481.0  | 4434.8  | 4509.1  | 4770.1  | 5185.6  | 5340.2  |
| 22.5° | 5404.5  | 5412.5  | 5388.4  | 4926.7  | 4468.9  | 4165.8  | 4109.6  | 4187.9  | 4468.9  | 5033.1  | 5410.5  |
| 25°   | 5569.1  | 5561.1  | 5446.6  | 4776.1  | 4216.0  | 3916.8  | 3858.6  | 3947.0  | 4240.1  | 4830.3  | 5486.8  |
| 27.5° | 5759.8  | 5729.7  | 5496.8  | 4613.5  | 4021.2  | 3732.1  | 3692.0  | 3786.3  | 4059.4  | 4643.6  | 5547.0  |
| 30°   | 5922.4  | 5864.2  | 5504.9  | 4468.9  | 3920.9  | 3653.8  | 3629.8  | 3718.1  | 3971.0  | 4517.1  | 5623.3  |
| 32.5° | 6103.1  | 6022.8  | 5551.0  | 4430.8  | 3977.1  | 3842.6  | 3874.7  | 3880.7  | 3995.1  | 4481.0  | 5737.7  |
| 35°   | 6362.1  | 6257.7  | 5677.5  | 4541.2  | 4555.3  | 4782.1  | 4898.6  | 4742.0  | 4358.5  | 4561.3  | 5954.6  |
| 37.5° | 6753.6  | 6621.1  | 5934.5  | 5019.0  | 5749.8  | 6257.7  | 6538.8  | 6181.4  | 5462.7  | 4864.4  | 6281.8  |
| 40°   | 7229.4  | 7060.8  | 6263.7  | 5902.4  | 6866.0  | 7679.1  | 8179.0  | 7655.0  | 6599.0  | 5621.3  | 6741.5  |
| 42.5° | 7893.9  | 7717.2  | 6902.2  | 6769.6  | 7899.9  | 9110.5  | 9763.0  | 8982.0  | 7600.8  | 6599.0  | 7478.3  |
| 45°   | 9052.3  | 8881.7  | 8072.6  | 7638.9  | 9110.5  | 10873.2 | 11788.7 | 10702.6 | 8618.7  | 7580.7  | 8855.6  |
| 47.5° | 11192.4 | 10991.6 | 9811.2  | 8602.6  | 10491.8 | 13161.9 | 14442.7 | 12860.7 | 9676.7  | 8705.0  | 11168.3 |
| 50°   | 13762.1 | 13569.4 | 11993.4 | 9742.9  | 12017.5 | 15609.1 | 17389.9 | 15396.3 | 10895.3 | 10072.2 | 13932.8 |
| 52.5° | 16853.9 | 16817.7 | 15107.2 | 11184.4 | 13605.5 | 18219.0 | 20660.3 | 18205.0 | 12230.3 | 11913.1 | 17064.7 |
| 55°   | 19640.4 | 19993.8 | 19062.2 | 13382.7 | 15657.3 | 21497.5 | 24023.0 | 21268.6 | 14041.2 | 14956.7 | 20732.6 |
| 57.5° | 21142.1 | 22091.7 | 23523.1 | 17867.7 | 18640.6 | 25416.3 | 28172.7 | 25008.8 | 17153.0 | 20023.9 | 24133.4 |
| 60°   | 20150.3 | 21226.4 | 23820.3 | 21244.5 | 21599.8 | 28556.2 | 31597.7 | 28152.7 | 20208.6 | 23541.2 | 23940.7 |
| 62.5° | 18500.1 | 19465.8 | 21772.5 | 19273.0 | 22057.6 | 29246.8 | 31678.0 | 28700.7 | 21423.2 | 21756.4 | 21625.9 |
| 65°   | 16542.7 | 17516.4 | 19959.6 | 16823.7 | 20602.1 | 27606.6 | 29341.2 | 27088.6 | 19240.9 | 19656.5 | 19704.7 |
| 67.5° | 13942.8 | 14842.2 | 17329.7 | 14958.7 | 18779.2 | 25199.5 | 25753.6 | 24791.9 | 17719.1 | 18381.6 | 17689.0 |
| 70°   | 10417.5 | 11228.5 | 13424.9 | 12156.1 | 15830.0 | 22063.6 | 21615.9 | 21758.4 | 16010.7 | 16669.2 | 14776.0 |
| 72.5° | 7119.0  | 7729.3  | 9612.4  | 9552.2  | 12121.9 | 17662.9 | 17038.6 | 18389.7 | 13372.7 | 14246.0 | 11264.7 |
| 75°   | 4978.9  | 5454.7  | 6948.3  | 7546.6  | 9162.7  | 13091.6 | 12134.0 | 13764.1 | 10443.6 | 11690.3 | 8219.1  |
| 77.5° | 3055.6  | 3370.8  | 4388.6  | 5591.2  | 5894.3  | 8959.9  | 7536.6  | 10357.2 | 7333.8  | 8526.3  | 5482.8  |
| 80°   | 1527.8  | 1680.4  | 2132.1  | 3515.3  | 3908.8  | 5280.0  | 4161.8  | 6012.8  | 4962.8  | 5280.0  | 3033.5  |
| 82.5° | 461.7   | 509.9   | 624.4   | 1335.1  | 2025.7  | 3039.5  | 2459.3  | 3493.2  | 2710.3  | 2475.4  | 1194.5  |
| 85°   | 122.5   | 138.5   | 172.7   | 395.5   | 710.7   | 1090.1  | 831.1   | 1692.4  | 1298.9  | 913.5   | 449.7   |
| 87.5° | 10.0    | 10.0    | 8.0     | 8.0     | 4.0     | 0.0     | 0.0     | 120.5   | 242.9   | 138.5   | 78.3    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3519.3  | 3519.3  | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 |
| 2.5°  | 3832.5  | 3824.5  | 3742.2 | 3682.0 | 3611.7 | 3543.4 | 3473.2 | 3410.9 | 3340.7 | 3270.4 | 3250.3 |
| 5°    | 4141.7  | 4085.5  | 3910.8 | 3764.3 | 3619.7 | 3493.2 | 3382.8 | 3268.4 | 3176.0 | 3085.7 | 3051.6 |
| 7.5°  | 4414.7  | 4316.4  | 4063.4 | 3840.6 | 3639.8 | 3483.2 | 3320.6 | 3153.9 | 3023.5 | 2895.0 | 2862.8 |
| 10°   | 4661.7  | 4531.2  | 4212.0 | 3930.9 | 3708.0 | 3529.4 | 3338.6 | 3115.8 | 2927.1 | 2770.5 | 2728.3 |
| 12.5° | 4844.4  | 4701.8  | 4340.4 | 4017.2 | 3764.3 | 3563.5 | 3374.8 | 3178.0 | 2979.3 | 2776.5 | 2730.3 |
| 15°   | 4988.9  | 4840.3  | 4446.8 | 4083.5 | 3766.3 | 3507.3 | 3324.6 | 3256.3 | 3194.1 | 2995.3 | 2911.0 |
| 17.5° | 5105.3  | 4948.7  | 4539.2 | 4123.6 | 3712.1 | 3336.6 | 3178.0 | 3278.4 | 3437.0 | 3312.6 | 3153.9 |
| 20°   | 5211.7  | 5053.1  | 4609.5 | 4151.7 | 3591.6 | 3101.8 | 3013.4 | 3226.2 | 3465.1 | 3461.1 | 3318.6 |
| 22.5° | 5328.2  | 5173.6  | 4711.9 | 4167.8 | 3423.0 | 2862.8 | 2915.0 | 3149.9 | 3344.7 | 3402.9 | 3314.6 |
| 25°   | 5476.8  | 5340.2  | 4854.4 | 4203.9 | 3232.2 | 2698.2 | 2842.8 | 3051.6 | 3214.2 | 3228.2 | 3176.0 |
| 27.5° | 5649.4  | 5547.0  | 5067.2 | 4288.2 | 3047.5 | 2613.9 | 2758.5 | 2913.0 | 3061.6 | 3067.6 | 3005.4 |
| 30°   | 5838.1  | 5769.9  | 5263.9 | 4358.5 | 2909.0 | 2587.8 | 2650.0 | 2774.5 | 2868.9 | 2884.9 | 2830.7 |
| 32.5° | 6079.0  | 6018.8  | 5438.6 | 4312.3 | 2826.7 | 2581.8 | 2549.7 | 2613.9 | 2692.2 | 2692.2 | 2650.0 |
| 35°   | 6410.3  | 6326.0  | 5623.3 | 4135.7 | 2726.3 | 2557.7 | 2443.3 | 2461.3 | 2495.5 | 2501.5 | 2477.4 |
| 37.5° | 6880.1  | 6741.5  | 5810.0 | 3786.3 | 2561.7 | 2471.4 | 2320.8 | 2298.7 | 2310.8 | 2326.8 | 2320.8 |
| 40°   | 7462.3  | 7235.4  | 6083.0 | 3366.8 | 2365.0 | 2304.7 | 2194.3 | 2152.2 | 2142.1 | 2174.2 | 2186.3 |
| 42.5° | 8195.0  | 7847.7  | 6376.2 | 2975.3 | 2186.3 | 2114.0 | 2045.8 | 2009.6 | 1993.6 | 2047.8 | 2079.9 |
| 45°   | 9365.5  | 8793.3  | 6657.2 | 2587.8 | 2085.9 | 1951.4 | 1905.2 | 1879.1 | 1887.2 | 1951.4 | 1991.5 |
| 47.5° | 11387.1 | 10236.8 | 6924.2 | 2342.9 | 2077.9 | 1835.0 | 1778.7 | 1784.8 | 1806.8 | 1875.1 | 1923.3 |
| 50°   | 13944.8 | 12170.1 | 7102.9 | 2240.5 | 2102.0 | 1764.7 | 1690.4 | 1722.5 | 1756.7 | 1822.9 | 1879.1 |
| 52.5° | 16548.7 | 13970.9 | 6890.1 | 2184.3 | 2100.0 | 1766.7 | 1608.1 | 1704.5 | 1720.5 | 1786.8 | 1847.0 |
| 55°   | 18339.5 | 14171.7 | 5952.6 | 2097.9 | 2067.8 | 1847.0 | 1543.8 | 1696.4 | 1706.5 | 1766.7 | 1820.9 |
| 57.5° | 19022.1 | 13485.1 | 4539.2 | 2122.0 | 1971.5 | 1909.2 | 1515.7 | 1640.2 | 1712.5 | 1764.7 | 1820.9 |
| 60°   | 18196.9 | 12190.2 | 2758.5 | 2184.3 | 1816.9 | 1905.2 | 1533.8 | 1537.8 | 1662.3 | 1750.6 | 1806.8 |
| 62.5° | 16641.0 | 10527.9 | 1937.3 | 2007.6 | 1704.5 | 1798.8 | 1576.0 | 1417.4 | 1574.0 | 1680.4 | 1730.6 |
| 65°   | 14858.3 | 8572.5  | 1477.6 | 1728.5 | 1650.3 | 1634.2 | 1590.0 | 1311.0 | 1453.5 | 1557.9 | 1602.1 |
| 67.5° | 13001.3 | 6663.2  | 1200.5 | 1288.9 | 1491.7 | 1477.6 | 1453.5 | 1216.6 | 1311.0 | 1385.2 | 1435.4 |
| 70°   | 10662.4 | 4661.7  | 1013.8 | 967.7  | 1278.8 | 1325.0 | 1270.8 | 1098.2 | 1128.3 | 1204.6 | 1244.7 |
| 72.5° | 7799.6  | 2905.0  | 833.2  | 799.0  | 1027.9 | 1158.4 | 1130.3 | 967.7  | 981.7  | 1054.0 | 1086.1 |
| 75°   | 5609.3  | 1662.3  | 668.5  | 658.5  | 785.0  | 991.8  | 935.5  | 833.2  | 849.2  | 903.4  | 925.5  |
| 77.5° | 3565.5  | 925.5   | 516.0  | 530.0  | 562.1  | 740.8  | 799.0  | 712.7  | 712.7  | 744.8  | 762.9  |
| 80°   | 1909.2  | 530.0   | 377.4  | 383.5  | 393.5  | 566.1  | 630.4  | 552.1  | 552.1  | 530.0  | 552.1  |
| 82.5° | 779.0   | 305.2   | 259.0  | 240.9  | 263.0  | 387.5  | 441.7  | 351.3  | 367.4  | 331.3  | 339.3  |
| 85°   | 257.0   | 152.6   | 128.5  | 126.5  | 124.5  | 170.6  | 212.8  | 174.7  | 208.8  | 132.5  | 138.5  |
| 87.5° | 34.1    | 28.1    | 16.1   | 12.0   | 14.1   | 6.0    | 12.0   | 14.1   | 14.1   | 10.0   | 10.0   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 |
| 2.5°  | 3236.3 | 3220.2 | 3162.0 | 3176.0 | 3166.0 | 3149.9 | 3166.0 | 3135.9 | 3160.0 | 3168.0 | 3218.2 |
| 5°    | 3025.5 | 2987.3 | 2931.1 | 2903.0 | 2897.0 | 2880.9 | 2882.9 | 2868.9 | 2872.9 | 2907.0 | 2963.2 |
| 7.5°  | 2836.7 | 2800.6 | 2756.4 | 2736.4 | 2718.3 | 2700.2 | 2698.2 | 2696.2 | 2712.3 | 2742.4 | 2796.6 |
| 10°   | 2700.2 | 2680.2 | 2662.1 | 2670.1 | 2662.1 | 2654.1 | 2640.0 | 2640.0 | 2666.1 | 2720.3 | 2786.6 |
| 12.5° | 2700.2 | 2696.2 | 2700.2 | 2724.3 | 2722.3 | 2724.3 | 2706.3 | 2716.3 | 2788.6 | 2880.9 | 2975.3 |
| 15°   | 2844.8 | 2812.7 | 2812.7 | 2824.7 | 2820.7 | 2820.7 | 2820.7 | 2862.8 | 3027.5 | 3170.0 | 3270.4 |
| 17.5° | 3021.4 | 2927.1 | 2886.9 | 2880.9 | 2878.9 | 2878.9 | 2886.9 | 2977.3 | 3234.3 | 3384.8 | 3443.0 |
| 20°   | 3143.9 | 2965.2 | 2899.0 | 2872.9 | 2874.9 | 2878.9 | 2903.0 | 3027.5 | 3310.5 | 3386.8 | 3372.8 |
| 22.5° | 3166.0 | 2935.1 | 2854.8 | 2816.7 | 2822.7 | 2826.7 | 2862.8 | 2995.3 | 3206.1 | 3218.2 | 3190.1 |
| 25°   | 3063.6 | 2850.8 | 2764.5 | 2734.4 | 2742.4 | 2740.4 | 2772.5 | 2868.9 | 3019.4 | 3015.4 | 2999.4 |
| 27.5° | 2911.0 | 2716.3 | 2652.0 | 2632.0 | 2646.0 | 2630.0 | 2640.0 | 2714.3 | 2830.7 | 2826.7 | 2820.7 |
| 30°   | 2754.4 | 2585.8 | 2527.6 | 2517.5 | 2535.6 | 2511.5 | 2513.5 | 2575.8 | 2656.1 | 2652.0 | 2650.0 |
| 32.5° | 2597.8 | 2455.3 | 2403.1 | 2403.1 | 2421.2 | 2395.1 | 2399.1 | 2453.3 | 2507.5 | 2491.4 | 2491.4 |
| 35°   | 2449.3 | 2348.9 | 2306.7 | 2298.7 | 2312.8 | 2294.7 | 2302.7 | 2352.9 | 2373.0 | 2350.9 | 2336.9 |
| 37.5° | 2318.8 | 2274.6 | 2232.5 | 2204.4 | 2206.4 | 2208.4 | 2232.5 | 2270.6 | 2258.6 | 2226.4 | 2208.4 |
| 40°   | 2198.3 | 2198.3 | 2158.2 | 2106.0 | 2100.0 | 2114.0 | 2154.2 | 2196.3 | 2162.2 | 2126.1 | 2104.0 |
| 42.5° | 2112.0 | 2130.1 | 2091.9 | 2039.7 | 2027.7 | 2051.8 | 2095.9 | 2126.1 | 2085.9 | 2045.8 | 2015.6 |
| 45°   | 2031.7 | 2075.9 | 2049.8 | 1991.5 | 1975.5 | 2003.6 | 2059.8 | 2071.8 | 2017.6 | 1979.5 | 1957.4 |
| 47.5° | 1975.5 | 2035.7 | 2017.6 | 1961.4 | 1937.3 | 1977.5 | 2035.7 | 2033.7 | 1965.4 | 1925.3 | 1907.2 |
| 50°   | 1935.3 | 2011.6 | 2009.6 | 1961.4 | 1935.3 | 1985.5 | 2037.7 | 2011.6 | 1937.3 | 1895.2 | 1877.1 |
| 52.5° | 1903.2 | 2009.6 | 2023.7 | 1995.6 | 1977.5 | 2021.7 | 2053.8 | 2003.6 | 1917.3 | 1873.1 | 1859.0 |
| 55°   | 1889.2 | 2017.6 | 2027.7 | 2001.6 | 1985.5 | 2025.7 | 2053.8 | 2019.7 | 1917.3 | 1877.1 | 1865.1 |
| 57.5° | 1893.2 | 2007.6 | 2009.6 | 1973.5 | 1945.4 | 1995.6 | 2039.7 | 2029.7 | 1939.3 | 1893.2 | 1879.1 |
| 60°   | 1869.1 | 1953.4 | 1957.4 | 1901.2 | 1869.1 | 1929.3 | 2007.6 | 2001.6 | 1929.3 | 1881.1 | 1855.0 |
| 62.5° | 1788.8 | 1863.1 | 1865.1 | 1812.9 | 1766.7 | 1853.0 | 1939.3 | 1937.3 | 1871.1 | 1822.9 | 1792.8 |
| 65°   | 1654.3 | 1732.6 | 1752.6 | 1702.5 | 1666.3 | 1758.7 | 1849.0 | 1845.0 | 1778.7 | 1734.6 | 1704.5 |
| 67.5° | 1487.6 | 1572.0 | 1610.1 | 1576.0 | 1561.9 | 1646.2 | 1730.6 | 1728.5 | 1674.3 | 1632.2 | 1606.1 |
| 70°   | 1284.9 | 1355.1 | 1419.4 | 1419.4 | 1409.3 | 1505.7 | 1596.0 | 1588.0 | 1537.8 | 1505.7 | 1485.6 |
| 72.5° | 1116.2 | 1170.4 | 1190.5 | 1210.6 | 1240.7 | 1341.1 | 1417.4 | 1423.4 | 1387.3 | 1371.2 | 1387.3 |
| 75°   | 949.6  | 983.7  | 1001.8 | 985.7  | 1037.9 | 1142.3 | 1242.7 | 1252.7 | 1214.6 | 1188.5 | 1194.5 |
| 77.5° | 781.0  | 819.1  | 837.2  | 801.0  | 797.0  | 929.5  | 1052.0 | 1074.1 | 1041.9 | 1001.8 | 1013.8 |
| 80°   | 564.1  | 614.3  | 644.4  | 620.4  | 612.3  | 670.5  | 839.2  | 863.3  | 833.2  | 801.0  | 819.1  |
| 82.5° | 345.3  | 373.4  | 381.4  | 405.5  | 455.7  | 479.8  | 540.0  | 620.4  | 598.3  | 570.2  | 620.4  |
| 85°   | 136.5  | 162.6  | 180.7  | 204.8  | 238.9  | 283.1  | 333.3  | 397.5  | 361.4  | 349.3  | 411.6  |
| 87.5° | 8.0    | 2.0    | 0.0    | 4.0    | 34.1   | 66.3   | 142.5  | 196.7  | 164.6  | 176.7  | 212.8  |
| 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: P642171  
 CATALOG NUMBER: GWS-SA6C-735-U-SLR-W

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3  | 3519.3  | 3519.3  |
| 2.5°  | 3258.3 | 3310.5 | 3380.8 | 3439.0 | 3513.3 | 3583.6 | 3655.9 | 3728.1  | 3766.3  | 3782.3  |
| 5°    | 3027.5 | 3123.8 | 3236.3 | 3360.7 | 3505.3 | 3657.9 | 3812.4 | 3971.0  | 4071.4  | 4079.5  |
| 7.5°  | 2888.9 | 3027.5 | 3182.1 | 3338.6 | 3517.3 | 3728.1 | 3973.1 | 4218.0  | 4320.4  | 4348.5  |
| 10°   | 2933.1 | 3087.7 | 3210.2 | 3356.7 | 3553.5 | 3816.5 | 4105.6 | 4392.6  | 4511.1  | 4545.2  |
| 12.5° | 3109.8 | 3139.9 | 3178.0 | 3312.6 | 3553.5 | 3892.7 | 4242.1 | 4583.4  | 4709.8  | 4742.0  |
| 15°   | 3256.3 | 3111.8 | 3043.5 | 3186.1 | 3505.3 | 3959.0 | 4386.6 | 4764.1  | 4916.6  | 4946.7  |
| 17.5° | 3268.4 | 3019.4 | 2870.9 | 2999.4 | 3421.0 | 4005.2 | 4525.1 | 4964.8  | 5093.3  | 5121.4  |
| 20°   | 3145.9 | 2921.1 | 2728.3 | 2806.6 | 3306.5 | 4025.3 | 4625.5 | 5111.4  | 5237.8  | 5266.0  |
| 22.5° | 3007.4 | 2840.8 | 2632.0 | 2628.0 | 3168.0 | 4047.3 | 4746.0 | 5249.9  | 5386.4  | 5404.5  |
| 25°   | 2876.9 | 2730.3 | 2553.7 | 2497.5 | 3007.4 | 4089.5 | 4908.6 | 5458.7  | 5563.1  | 5569.1  |
| 27.5° | 2724.3 | 2611.9 | 2491.4 | 2437.2 | 2866.9 | 4169.8 | 5149.5 | 5707.6  | 5769.9  | 5759.8  |
| 30°   | 2585.8 | 2501.5 | 2447.3 | 2431.2 | 2778.5 | 4230.0 | 5378.4 | 5952.6  | 5956.6  | 5922.4  |
| 32.5° | 2439.2 | 2407.1 | 2407.1 | 2459.3 | 2706.3 | 4216.0 | 5565.1 | 6191.5  | 6153.3  | 6103.1  |
| 35°   | 2308.7 | 2314.8 | 2356.9 | 2479.4 | 2585.8 | 4075.4 | 5743.8 | 6490.6  | 6434.4  | 6362.1  |
| 37.5° | 2184.3 | 2230.5 | 2290.7 | 2409.1 | 2427.2 | 3866.7 | 5952.6 | 6914.2  | 6843.9  | 6753.6  |
| 40°   | 2077.9 | 2148.1 | 2218.4 | 2276.6 | 2258.6 | 3569.5 | 6243.7 | 7412.1  | 7333.8  | 7229.4  |
| 42.5° | 1993.6 | 2061.8 | 2140.1 | 2146.1 | 2152.2 | 3260.4 | 6552.8 | 8022.4  | 8008.3  | 7893.9  |
| 45°   | 1939.3 | 1983.5 | 2057.8 | 2047.8 | 2146.1 | 2919.1 | 6837.9 | 8953.9  | 9138.6  | 9052.3  |
| 47.5° | 1903.2 | 1937.3 | 1945.4 | 1987.5 | 2198.3 | 2613.9 | 7205.3 | 10776.8 | 11290.8 | 11192.4 |
| 50°   | 1883.1 | 1917.3 | 1826.9 | 1991.5 | 2206.4 | 2417.2 | 7713.2 | 13065.5 | 13892.6 | 13762.1 |
| 52.5° | 1881.1 | 1873.1 | 1736.6 | 2033.7 | 2162.2 | 2296.7 | 7978.2 | 14735.8 | 16570.8 | 16853.9 |
| 55°   | 1885.1 | 1784.8 | 1690.4 | 2045.8 | 2073.9 | 2252.5 | 7090.9 | 15538.9 | 19042.1 | 19640.4 |
| 57.5° | 1849.0 | 1688.4 | 1716.5 | 1997.6 | 1907.2 | 2371.0 | 5241.9 | 15251.8 | 20029.9 | 21142.1 |
| 60°   | 1780.7 | 1596.0 | 1764.7 | 1867.1 | 1736.6 | 2168.2 | 3609.7 | 13970.9 | 19006.0 | 20150.3 |
| 62.5° | 1682.4 | 1531.8 | 1758.7 | 1698.4 | 1674.3 | 1774.7 | 2481.4 | 12178.1 | 17381.9 | 18500.1 |
| 65°   | 1572.0 | 1479.6 | 1664.3 | 1535.8 | 1549.9 | 1365.2 | 1754.6 | 10154.5 | 15442.5 | 16542.7 |
| 67.5° | 1453.5 | 1447.5 | 1525.8 | 1367.2 | 1309.0 | 1082.1 | 1278.8 | 8138.8  | 12951.1 | 13942.8 |
| 70°   | 1319.0 | 1363.2 | 1387.3 | 1214.6 | 1062.0 | 849.2  | 949.6  | 5691.6  | 9554.2  | 10417.5 |
| 72.5° | 1184.5 | 1188.5 | 1222.6 | 1056.0 | 795.0  | 680.6  | 712.7  | 3447.1  | 6490.6  | 7119.0  |
| 75°   | 1048.0 | 1009.8 | 1041.9 | 859.3  | 592.2  | 558.1  | 550.1  | 2130.1  | 4483.0  | 4978.9  |
| 77.5° | 901.4  | 859.3  | 817.1  | 646.4  | 475.8  | 431.6  | 421.6  | 1194.5  | 2750.4  | 3055.6  |
| 80°   | 732.8  | 676.6  | 610.3  | 473.8  | 347.3  | 309.2  | 307.2  | 582.2   | 1371.2  | 1527.8  |
| 82.5° | 570.2  | 463.8  | 445.7  | 295.1  | 214.8  | 188.7  | 200.8  | 222.8   | 413.6   | 461.7   |
| 85°   | 399.5  | 337.3  | 236.9  | 118.4  | 96.4   | 78.3   | 76.3   | 66.3    | 110.4   | 122.5   |
| 87.5° | 222.8  | 146.6  | 76.3   | 14.1   | 16.1   | 18.1   | 14.1   | 10.0    | 10.0    | 10.0    |
| 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**

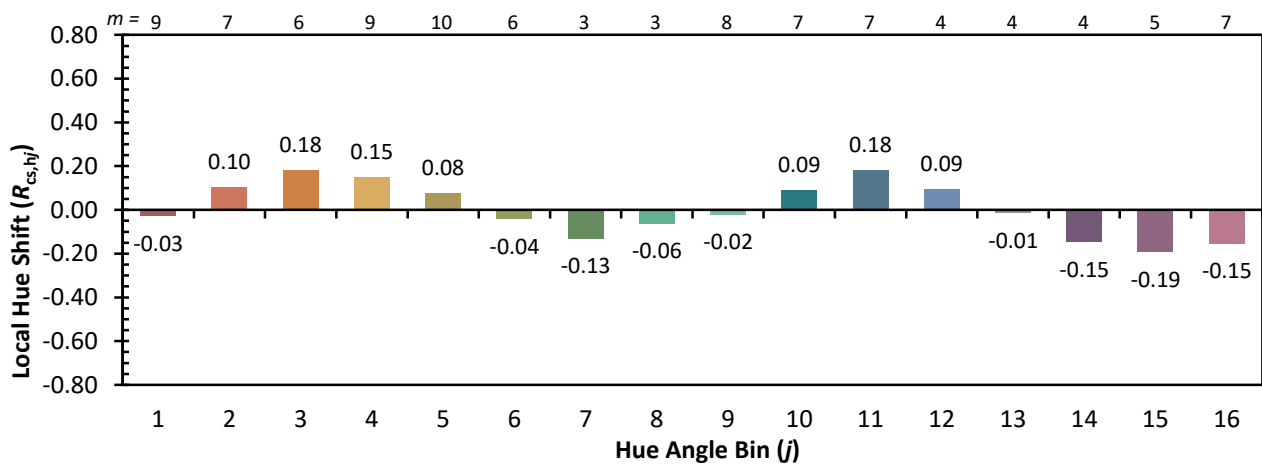


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| 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)