

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



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386418

Luminaire Tested: **GPC-SA2A-750-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GPC-SA2A-750-U-SLL-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7210 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

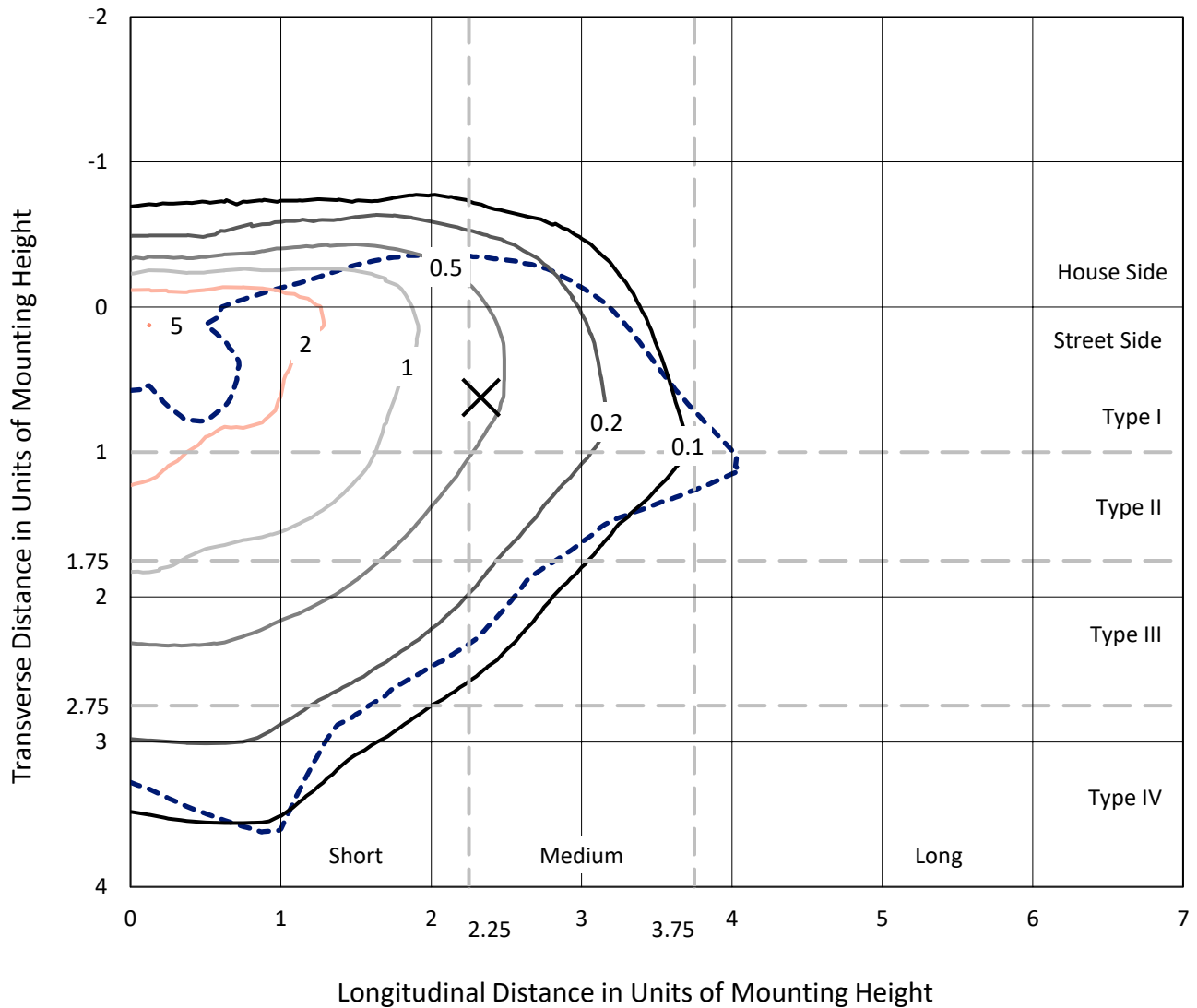
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

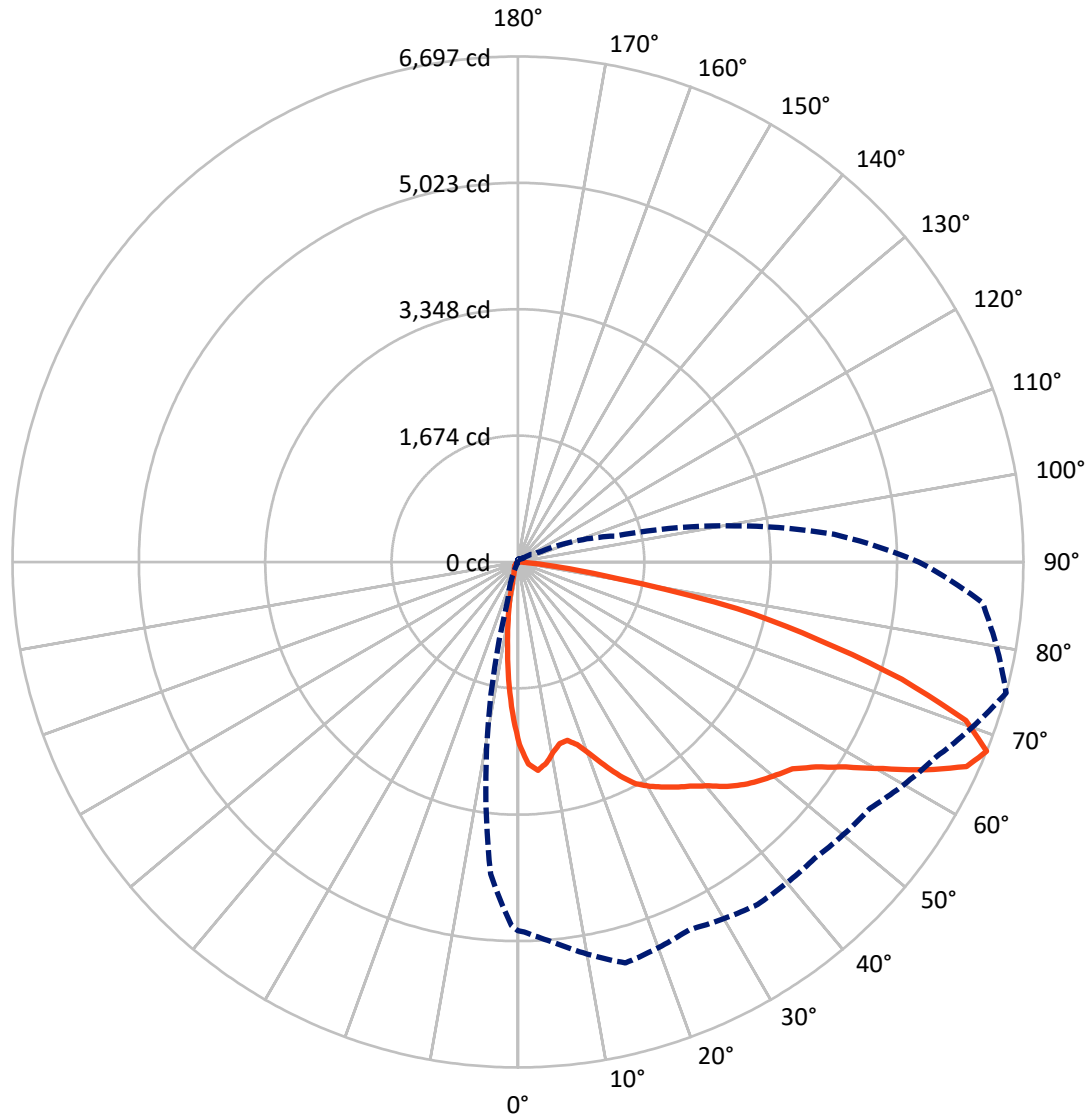
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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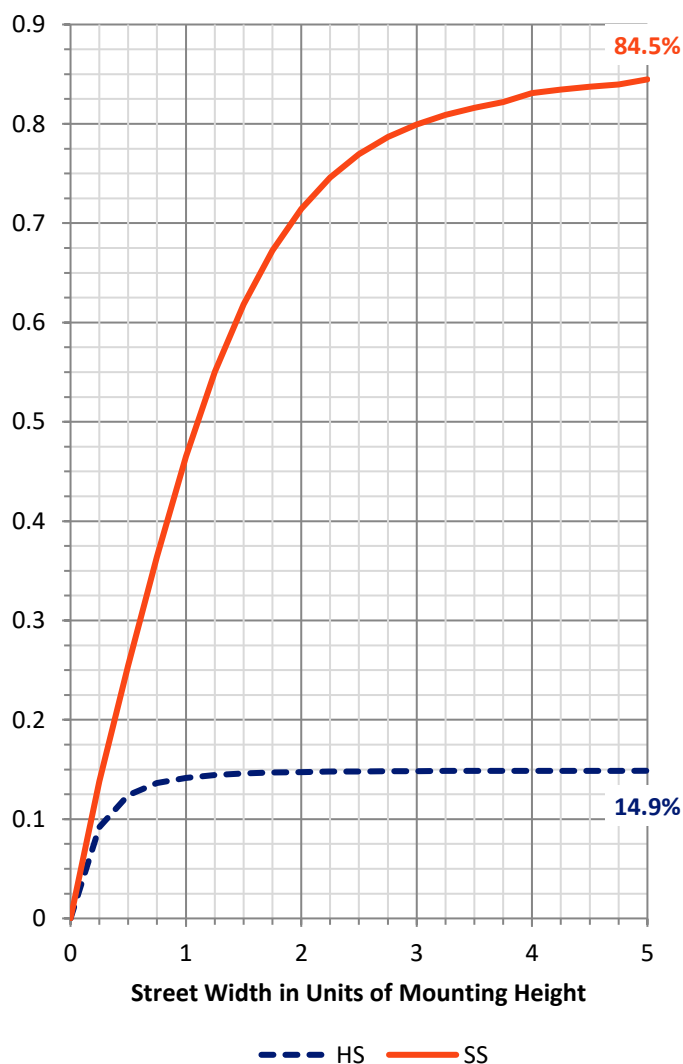
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1081.9   | 0.0    | 1081.9 |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 6128.1   | 0.0    | 6128.1 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 7210.0   | 0.0    | 7210.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.5  | 2.5       |
| 10°-20°   | 361.3  | 5.0       |
| 20°-30°   | 511.1  | 7.1       |
| 30°-40°   | 751.5  | 10.4      |
| 40°-50°   | 1080.1 | 15.0      |
| 50°-60°   | 1520.5 | 21.1      |
| 60°-70°   | 1775.8 | 24.6      |
| 70°-80°   | 906.0  | 12.6      |
| 80°-90°   | 120.3  | 1.7       |
| 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°    | 7210.0 | 100.0     |
| 0°-180°   | 7210.0 | 100.0     |

**Coefficient of Utilization**



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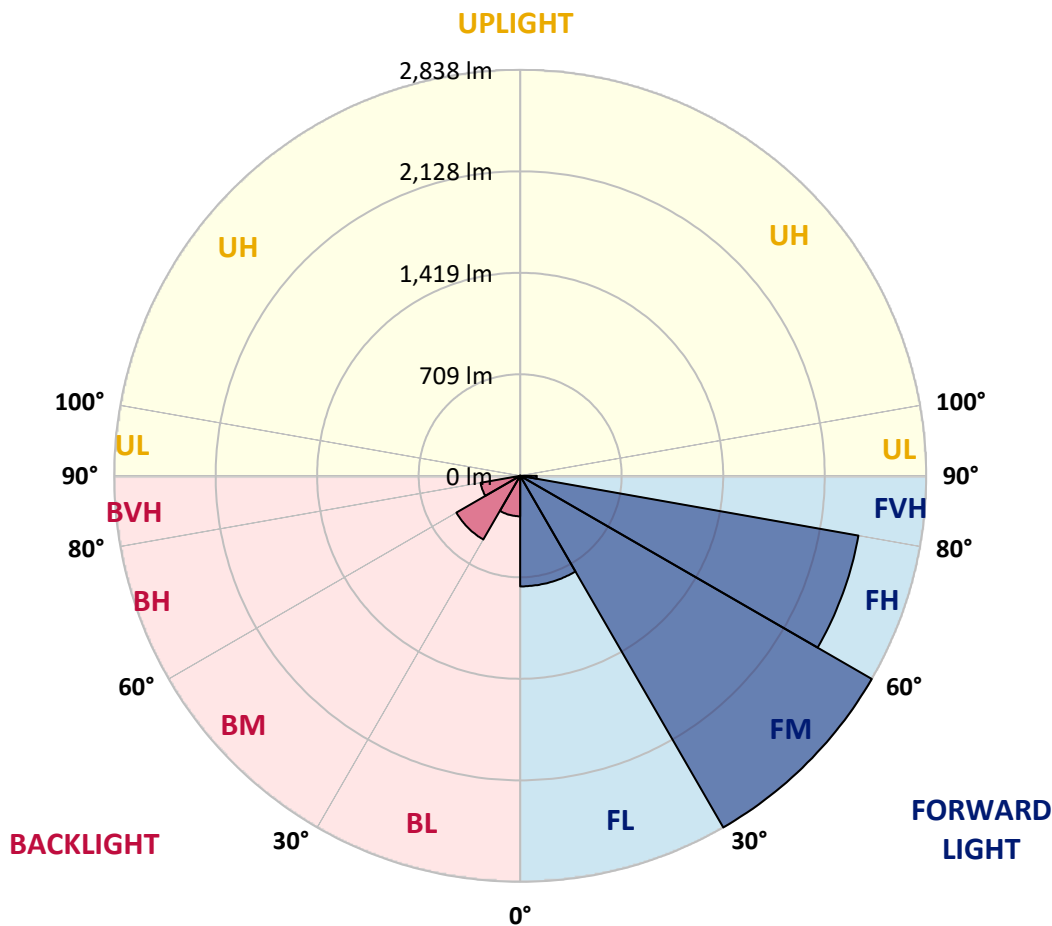
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 772.9  | 10.7      |                         |      |         |
| FM (30°-60°)   | 2837.7 | 39.4      |                         |      |         |
| FH (60°-80°)   | 2400.7 | 33.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 116.7  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 282.9  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 514.3  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 281.0  | 3.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.6    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 |
| 2.5°  | 2622.1 | 2626.2 | 2647.3 | 2696.5 | 2750.1 | 2754.2 | 2790.4 | 2753.2 | 2740.6 | 2680.5 | 2618.3 |
| 5°    | 2641.9 | 2657.6 | 2730.3 | 2874.8 | 3000.1 | 3040.4 | 3069.1 | 2996.0 | 2919.2 | 2772.3 | 2615.6 |
| 7.5°  | 2482.4 | 2508.7 | 2623.1 | 2894.3 | 3118.3 | 3217.4 | 3236.2 | 3121.7 | 2933.5 | 2691.7 | 2456.1 |
| 10°   | 2278.1 | 2308.2 | 2446.2 | 2779.5 | 3087.2 | 3257.0 | 3282.9 | 3133.0 | 2862.5 | 2561.3 | 2283.6 |
| 12.5° | 2112.8 | 2148.0 | 2289.0 | 2650.4 | 2980.3 | 3168.2 | 3219.4 | 3095.1 | 2801.0 | 2468.7 | 2165.7 |
| 15°   | 2036.6 | 2076.9 | 2225.2 | 2567.1 | 2861.8 | 3009.7 | 3052.1 | 2998.4 | 2766.9 | 2454.0 | 2138.4 |
| 17.5° | 2080.4 | 2124.1 | 2277.1 | 2574.2 | 2750.5 | 2813.7 | 2847.8 | 2869.7 | 2766.9 | 2542.5 | 2218.3 |
| 20°   | 2259.7 | 2306.8 | 2468.7 | 2647.0 | 2658.3 | 2634.7 | 2671.2 | 2748.1 | 2799.0 | 2710.5 | 2410.3 |
| 22.5° | 2507.6 | 2563.0 | 2745.7 | 2771.6 | 2613.2 | 2524.0 | 2528.8 | 2649.4 | 2857.4 | 2923.6 | 2676.7 |
| 25°   | 2809.9 | 2877.5 | 3063.3 | 2957.5 | 2632.0 | 2458.1 | 2456.4 | 2568.1 | 2914.4 | 3137.1 | 2973.5 |
| 27.5° | 3110.1 | 3184.6 | 3347.8 | 3184.2 | 2709.5 | 2446.2 | 2442.7 | 2543.5 | 2970.1 | 3327.0 | 3297.6 |
| 30°   | 3361.8 | 3434.2 | 3575.0 | 3348.5 | 2793.2 | 2474.2 | 2457.8 | 2569.8 | 3003.2 | 3450.3 | 3534.0 |
| 32.5° | 3566.8 | 3624.8 | 3738.6 | 3461.6 | 2882.7 | 2528.5 | 2492.9 | 2640.2 | 3059.6 | 3554.5 | 3751.2 |
| 35°   | 3792.2 | 3853.3 | 3898.8 | 3569.2 | 2983.1 | 2606.7 | 2555.8 | 2751.8 | 3146.3 | 3660.4 | 3989.3 |
| 37.5° | 4049.4 | 4110.2 | 4104.7 | 3667.5 | 3110.5 | 2736.1 | 2703.7 | 2928.8 | 3281.2 | 3765.2 | 4255.0 |
| 40°   | 4301.1 | 4363.3 | 4318.9 | 3775.1 | 3260.1 | 2949.6 | 2925.7 | 3194.5 | 3461.9 | 3899.4 | 4566.5 |
| 42.5° | 4536.8 | 4604.0 | 4509.1 | 3876.9 | 3438.3 | 3218.7 | 3259.7 | 3536.7 | 3688.0 | 4064.7 | 4834.9 |
| 45°   | 4726.7 | 4795.3 | 4668.6 | 3975.9 | 3626.2 | 3545.3 | 3668.6 | 3915.8 | 3959.9 | 4204.4 | 5016.3 |
| 47.5° | 4864.6 | 4929.5 | 4779.3 | 4075.0 | 3866.6 | 3944.5 | 4159.4 | 4313.4 | 4205.5 | 4325.7 | 5145.1 |
| 50°   | 4952.8 | 5003.3 | 4811.7 | 4199.0 | 4182.2 | 4410.4 | 4670.6 | 4745.8 | 4436.7 | 4435.0 | 5301.5 |
| 52.5° | 5008.8 | 5031.7 | 4835.6 | 4328.4 | 4511.5 | 4917.6 | 5171.4 | 5194.9 | 4674.7 | 4555.2 | 5512.2 |
| 55°   | 5201.8 | 5220.2 | 5005.0 | 4485.2 | 4783.7 | 5361.9 | 5624.2 | 5602.4 | 4944.2 | 4790.5 | 5760.9 |
| 57.5° | 5531.0 | 5550.5 | 5355.1 | 4710.6 | 5004.0 | 5636.5 | 5952.5 | 5991.7 | 5260.2 | 5121.1 | 6027.3 |
| 60°   | 5696.3 | 5732.5 | 5662.8 | 4996.1 | 5217.5 | 5812.1 | 6176.2 | 6301.5 | 5655.0 | 5557.0 | 6285.5 |
| 62.5° | 5546.4 | 5599.0 | 5700.1 | 5312.8 | 5429.6 | 5908.8 | 6245.9 | 6412.5 | 6059.4 | 6064.8 | 6444.6 |
| 65°   | 5247.2 | 5289.2 | 5460.6 | 5486.3 | 5552.5 | 5896.8 | 6073.7 | 6257.5 | 6307.0 | 6531.4 | 6436.1 |
| 67.5° | 4885.8 | 4901.5 | 5047.0 | 5499.9 | 5374.2 | 5537.5 | 5556.6 | 5692.6 | 6111.3 | 6696.7 | 6177.5 |
| 70°   | 4365.6 | 4374.2 | 4501.2 | 5042.6 | 4618.4 | 4654.3 | 4625.9 | 4653.6 | 5254.0 | 6294.0 | 5524.9 |
| 72.5° | 3513.5 | 3535.0 | 3715.7 | 4187.7 | 3364.6 | 3261.1 | 3483.8 | 3471.5 | 4046.3 | 5317.5 | 4103.3 |
| 75°   | 2586.9 | 2624.1 | 2897.0 | 3373.1 | 2361.5 | 2136.0 | 2298.6 | 2342.0 | 2876.5 | 4113.2 | 2566.0 |
| 77.5° | 1811.2 | 1838.9 | 2103.2 | 2479.6 | 1709.1 | 1527.4 | 1468.6 | 1520.2 | 1898.7 | 2975.6 | 1292.8 |
| 80°   | 1043.4 | 1053.7 | 1222.4 | 1431.8 | 1151.7 | 1317.7 | 1193.7 | 1229.2 | 1137.7 | 1323.8 | 556.0  |
| 82.5° | 682.8  | 684.5  | 750.4  | 852.2  | 717.2  | 833.4  | 616.8  | 788.6  | 699.8  | 531.8  | 181.0  |
| 85°   | 368.9  | 370.9  | 435.1  | 604.9  | 406.1  | 229.5  | 134.9  | 277.0  | 432.7  | 121.9  | 49.5   |
| 87.5° | 40.6   | 37.2   | 131.2  | 220.0  | 112.7  | 20.8   | 7.2    | 31.1   | 69.3   | 7.9    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 |
| 2.5°  | 2586.5 | 2558.2 | 2487.5 | 2412.7 | 2352.6 | 2296.2 | 2239.5 | 2170.2 | 2116.6 | 2105.6 | 2087.9 |
| 5°    | 2531.2 | 2441.4 | 2293.1 | 2144.2 | 2024.3 | 1873.0 | 1777.1 | 1702.3 | 1629.2 | 1624.7 | 1610.0 |
| 7.5°  | 2337.9 | 2219.7 | 2011.0 | 1805.1 | 1636.3 | 1492.2 | 1346.7 | 1249.4 | 1172.9 | 1145.9 | 1129.8 |
| 10°   | 2152.1 | 2019.2 | 1758.6 | 1523.6 | 1373.0 | 1245.6 | 1143.2 | 1041.4 | 949.2  | 885.6  | 856.9  |
| 12.5° | 2022.3 | 1875.4 | 1588.2 | 1385.7 | 1277.7 | 1156.8 | 1031.8 | 904.8  | 798.5  | 722.0  | 675.2  |
| 15°   | 1972.1 | 1815.3 | 1531.2 | 1331.0 | 1197.8 | 1044.8 | 884.9  | 739.8  | 622.0  | 552.6  | 510.6  |
| 17.5° | 2031.9 | 1849.5 | 1526.7 | 1264.4 | 1078.3 | 888.0  | 711.4  | 540.0  | 429.0  | 376.4  | 349.4  |
| 20°   | 2183.5 | 1958.1 | 1525.0 | 1182.8 | 936.2  | 702.2  | 481.9  | 355.2  | 287.9  | 258.6  | 245.9  |
| 22.5° | 2398.0 | 2096.8 | 1538.7 | 1102.2 | 788.3  | 501.7  | 332.7  | 260.9  | 226.4  | 210.7  | 203.6  |
| 25°   | 2674.0 | 2291.4 | 1577.3 | 1029.1 | 649.3  | 374.3  | 259.2  | 218.6  | 194.3  | 182.0  | 176.9  |
| 27.5° | 2968.0 | 2515.5 | 1637.4 | 965.6  | 536.2  | 298.5  | 222.0  | 187.2  | 169.7  | 161.2  | 156.4  |
| 30°   | 3210.5 | 2775.1 | 1698.2 | 894.9  | 454.3  | 260.3  | 203.2  | 170.8  | 150.6  | 145.2  | 140.7  |
| 32.5° | 3422.6 | 2971.5 | 1741.2 | 831.0  | 400.6  | 231.2  | 183.8  | 152.7  | 139.0  | 128.4  | 123.6  |
| 35°   | 3642.3 | 3135.1 | 1739.8 | 786.2  | 363.7  | 209.4  | 167.4  | 136.6  | 120.2  | 107.9  | 104.2  |
| 37.5° | 3880.0 | 3319.8 | 1710.1 | 748.0  | 347.7  | 191.9  | 158.1  | 128.1  | 111.7  | 99.4   | 94.6   |
| 40°   | 4158.3 | 3513.8 | 1679.7 | 712.1  | 343.3  | 177.9  | 151.6  | 121.2  | 103.8  | 91.9   | 87.1   |
| 42.5° | 4429.5 | 3688.7 | 1653.1 | 685.5  | 324.1  | 177.6  | 145.8  | 116.1  | 97.7   | 86.1   | 80.6   |
| 45°   | 4646.4 | 3851.6 | 1648.0 | 669.4  | 304.0  | 183.8  | 142.8  | 112.7  | 92.9   | 81.3   | 76.2   |
| 47.5° | 4826.7 | 4028.5 | 1680.7 | 658.2  | 284.8  | 167.7  | 150.3  | 110.3  | 88.5   | 77.2   | 71.4   |
| 50°   | 5041.2 | 4245.8 | 1757.9 | 639.7  | 264.7  | 151.0  | 172.1  | 111.0  | 84.7   | 73.1   | 66.9   |
| 52.5° | 5340.4 | 4546.3 | 1871.3 | 608.6  | 237.0  | 135.6  | 169.4  | 111.7  | 80.6   | 68.7   | 62.5   |
| 55°   | 5675.8 | 4921.7 | 1993.3 | 557.1  | 198.4  | 115.4  | 145.2  | 106.9  | 72.7   | 63.9   | 58.1   |
| 57.5° | 6028.3 | 5262.2 | 2065.7 | 495.6  | 157.8  | 99.7   | 116.1  | 97.3   | 64.2   | 57.4   | 53.6   |
| 60°   | 6083.6 | 5391.7 | 2032.5 | 420.1  | 125.3  | 86.8   | 86.1   | 99.0   | 57.4   | 50.5   | 47.8   |
| 62.5° | 5946.0 | 5229.1 | 1872.4 | 352.8  | 104.9  | 76.2   | 70.7   | 86.4   | 51.9   | 45.1   | 42.4   |
| 65°   | 5681.3 | 4789.5 | 1612.8 | 318.0  | 97.3   | 65.2   | 58.7   | 60.8   | 45.4   | 39.3   | 36.9   |
| 67.5° | 5313.1 | 4202.7 | 1324.2 | 298.2  | 96.3   | 56.0   | 50.2   | 46.1   | 39.3   | 34.2   | 32.1   |
| 70°   | 4560.3 | 3501.2 | 1056.4 | 287.2  | 93.6   | 47.1   | 42.4   | 37.6   | 32.8   | 29.0   | 27.3   |
| 72.5° | 3356.4 | 2481.0 | 821.8  | 275.3  | 94.3   | 37.6   | 36.9   | 31.1   | 26.3   | 22.5   | 21.9   |
| 75°   | 1939.3 | 1417.4 | 539.0  | 223.0  | 89.8   | 29.0   | 30.7   | 21.9   | 18.4   | 15.7   | 15.7   |
| 77.5° | 1033.5 | 864.5  | 205.3  | 92.9   | 32.8   | 18.4   | 17.4   | 13.0   | 11.6   | 9.6    | 9.2    |
| 80°   | 450.5  | 380.5  | 61.8   | 26.0   | 18.1   | 9.9    | 6.5    | 5.8    | 5.1    | 4.1    | 3.8    |
| 82.5° | 159.5  | 137.6  | 20.2   | 12.6   | 7.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 36.2   | 26.0   | 0.0    | 3.1    | 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 |
| 2.5°  | 2051.7 | 2044.2 | 1999.8 | 2001.5 | 2009.3 | 2020.6 | 1993.9 | 2006.2 | 2039.4 | 2071.1 | 2083.1 |
| 5°    | 1586.5 | 1588.2 | 1561.2 | 1577.9 | 1593.0 | 1603.2 | 1560.2 | 1560.9 | 1587.2 | 1623.0 | 1641.8 |
| 7.5°  | 1117.9 | 1115.1 | 1116.5 | 1156.5 | 1184.8 | 1164.3 | 1180.4 | 1124.7 | 1128.1 | 1153.7 | 1134.6 |
| 10°   | 831.0  | 793.4  | 772.2  | 802.3  | 833.4  | 822.1  | 794.4  | 776.3  | 789.0  | 817.3  | 815.3  |
| 12.5° | 653.0  | 599.1  | 567.3  | 545.8  | 571.4  | 550.2  | 549.5  | 533.8  | 516.8  | 519.8  | 565.3  |
| 15°   | 491.1  | 451.9  | 414.3  | 379.8  | 379.1  | 371.9  | 335.4  | 294.4  | 291.0  | 293.0  | 316.6  |
| 17.5° | 337.8  | 324.5  | 309.1  | 279.4  | 271.5  | 241.5  | 206.0  | 189.6  | 181.4  | 185.1  | 193.0  |
| 20°   | 237.4  | 232.3  | 234.0  | 217.9  | 206.6  | 177.9  | 157.1  | 150.6  | 149.3  | 153.0  | 156.8  |
| 22.5° | 196.7  | 187.5  | 186.5  | 179.3  | 168.0  | 147.2  | 135.9  | 132.2  | 130.5  | 133.9  | 136.6  |
| 25°   | 172.1  | 162.9  | 159.2  | 154.7  | 142.8  | 128.4  | 121.6  | 118.2  | 116.5  | 118.5  | 120.2  |
| 27.5° | 151.6  | 143.1  | 139.7  | 136.6  | 125.0  | 114.8  | 109.3  | 106.2  | 104.9  | 105.5  | 107.2  |
| 30°   | 136.3  | 128.8  | 124.3  | 120.6  | 110.7  | 103.5  | 98.7   | 95.6   | 94.3   | 94.3   | 96.0   |
| 32.5° | 120.2  | 116.1  | 112.0  | 107.2  | 98.0   | 93.2   | 88.5   | 85.0   | 83.7   | 84.0   | 85.4   |
| 35°   | 100.1  | 98.7   | 99.7   | 95.3   | 87.4   | 83.3   | 78.6   | 74.8   | 73.8   | 74.1   | 75.5   |
| 37.5° | 88.8   | 82.7   | 86.4   | 84.0   | 79.6   | 74.1   | 68.0   | 64.6   | 62.8   | 63.9   | 64.6   |
| 40°   | 81.6   | 74.1   | 71.4   | 73.8   | 73.1   | 64.2   | 58.7   | 55.3   | 54.0   | 54.3   | 55.0   |
| 42.5° | 75.5   | 66.6   | 60.5   | 60.1   | 64.2   | 56.0   | 50.2   | 47.1   | 45.4   | 45.4   | 46.1   |
| 45°   | 69.7   | 60.1   | 52.6   | 46.8   | 54.0   | 47.5   | 42.0   | 39.3   | 37.2   | 37.2   | 37.6   |
| 47.5° | 65.2   | 54.6   | 45.8   | 38.3   | 40.6   | 38.9   | 34.5   | 31.8   | 29.7   | 29.7   | 30.1   |
| 50°   | 61.1   | 49.2   | 39.6   | 32.1   | 30.4   | 32.1   | 28.0   | 24.9   | 23.6   | 23.2   | 23.9   |
| 52.5° | 56.7   | 43.7   | 33.8   | 27.3   | 23.9   | 24.2   | 21.9   | 19.8   | 18.1   | 18.1   | 18.8   |
| 55°   | 52.3   | 39.3   | 29.4   | 23.2   | 19.8   | 18.1   | 17.4   | 16.1   | 14.7   | 14.7   | 15.4   |
| 57.5° | 47.8   | 34.5   | 24.9   | 19.1   | 15.7   | 14.3   | 14.3   | 13.3   | 12.3   | 12.3   | 13.0   |
| 60°   | 43.7   | 29.7   | 20.5   | 15.7   | 12.3   | 12.0   | 12.3   | 11.3   | 10.6   | 10.6   | 11.3   |
| 62.5° | 38.9   | 25.3   | 16.7   | 13.0   | 9.9    | 9.6    | 10.6   | 9.9    | 9.2    | 9.2    | 9.9    |
| 65°   | 33.1   | 21.5   | 13.3   | 9.9    | 7.5    | 7.5    | 8.9    | 8.2    | 7.5    | 7.5    | 8.2    |
| 67.5° | 28.0   | 18.1   | 10.2   | 7.2    | 5.5    | 5.8    | 7.5    | 6.8    | 6.5    | 6.5    | 7.2    |
| 70°   | 23.2   | 14.0   | 7.2    | 4.4    | 3.1    | 4.4    | 5.8    | 5.8    | 5.8    | 5.8    | 6.5    |
| 72.5° | 17.4   | 9.6    | 4.1    | 1.7    | 1.4    | 3.1    | 4.8    | 5.5    | 5.1    | 5.1    | 6.1    |
| 75°   | 11.3   | 5.5    | 1.4    | 0.0    | 0.0    | 1.7    | 3.8    | 4.4    | 4.4    | 4.1    | 5.1    |
| 77.5° | 6.5    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 2.4    | 2.0    | 1.7    | 1.4    | 2.4    |
| 80°   | 1.7    | 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    |



REPORT NUMBER: P386418  
 CATALOG NUMBER: GPC-SA2A-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 | 2418.8 |
| 2.5°  | 2131.2 | 2171.6 | 2228.2 | 2288.4 | 2380.9 | 2454.4 | 2526.4 | 2588.2 | 2612.1 | 2622.1 |
| 5°    | 1686.9 | 1746.0 | 1829.0 | 1935.5 | 2102.6 | 2252.8 | 2405.2 | 2558.5 | 2625.1 | 2641.9 |
| 7.5°  | 1210.4 | 1285.9 | 1391.5 | 1525.0 | 1720.7 | 1915.4 | 2128.2 | 2353.3 | 2456.4 | 2482.4 |
| 10°   | 895.9  | 988.1  | 1109.0 | 1249.7 | 1436.5 | 1636.7 | 1868.6 | 2125.8 | 2243.6 | 2278.1 |
| 12.5° | 635.6  | 760.3  | 922.2  | 1093.3 | 1255.2 | 1433.8 | 1668.5 | 1951.9 | 2075.6 | 2112.8 |
| 15°   | 373.3  | 493.9  | 685.5  | 914.7  | 1122.0 | 1303.0 | 1541.4 | 1862.8 | 1999.1 | 2036.6 |
| 17.5° | 214.1  | 274.3  | 419.1  | 674.6  | 956.0  | 1206.7 | 1501.4 | 1885.0 | 2045.5 | 2080.4 |
| 20°   | 163.6  | 182.7  | 241.5  | 434.4  | 762.0  | 1112.1 | 1501.4 | 2010.7 | 2208.4 | 2259.7 |
| 22.5° | 143.1  | 157.1  | 181.0  | 259.2  | 560.8  | 1010.6 | 1518.9 | 2192.4 | 2450.9 | 2507.6 |
| 25°   | 127.1  | 139.7  | 160.2  | 195.0  | 382.5  | 890.1  | 1560.2 | 2415.4 | 2736.5 | 2809.9 |
| 27.5° | 113.7  | 125.7  | 144.1  | 170.8  | 261.6  | 744.6  | 1615.9 | 2677.0 | 3051.4 | 3110.1 |
| 30°   | 101.8  | 113.1  | 129.8  | 148.6  | 201.9  | 579.6  | 1663.3 | 2923.6 | 3298.7 | 3361.8 |
| 32.5° | 90.5   | 100.8  | 115.8  | 129.8  | 165.3  | 428.6  | 1668.5 | 3119.0 | 3503.9 | 3566.8 |
| 35°   | 79.9   | 89.1   | 102.8  | 113.7  | 137.0  | 338.5  | 1588.9 | 3288.4 | 3709.2 | 3792.2 |
| 37.5° | 69.7   | 78.6   | 90.5   | 98.7   | 120.6  | 276.0  | 1467.3 | 3477.3 | 3972.5 | 4049.4 |
| 40°   | 60.1   | 68.0   | 80.3   | 85.7   | 114.1  | 212.1  | 1335.1 | 3675.4 | 4230.7 | 4301.1 |
| 42.5° | 51.2   | 58.7   | 70.7   | 81.3   | 100.1  | 158.5  | 1192.3 | 3861.2 | 4463.0 | 4536.8 |
| 45°   | 42.7   | 50.5   | 62.5   | 86.1   | 83.0   | 118.5  | 1039.7 | 3984.5 | 4646.4 | 4726.7 |
| 47.5° | 34.5   | 43.4   | 59.8   | 82.0   | 66.3   | 87.1   | 918.8  | 4101.3 | 4785.4 | 4864.6 |
| 50°   | 27.7   | 36.5   | 67.3   | 73.1   | 54.3   | 66.6   | 868.2  | 4205.8 | 4876.6 | 4952.8 |
| 52.5° | 22.5   | 30.7   | 63.5   | 56.0   | 45.4   | 55.0   | 895.5  | 4375.2 | 4961.0 | 5008.8 |
| 55°   | 18.8   | 24.2   | 38.3   | 38.9   | 38.6   | 46.8   | 929.3  | 4618.4 | 5179.2 | 5201.8 |
| 57.5° | 16.4   | 19.5   | 26.6   | 30.1   | 32.4   | 41.7   | 930.0  | 4967.5 | 5517.0 | 5531.0 |
| 60°   | 14.0   | 17.1   | 22.2   | 24.2   | 28.0   | 37.2   | 896.2  | 5089.4 | 5649.9 | 5696.3 |
| 62.5° | 12.3   | 15.0   | 18.4   | 20.2   | 23.6   | 33.5   | 817.0  | 4912.8 | 5467.5 | 5546.4 |
| 65°   | 10.9   | 13.7   | 15.4   | 17.1   | 20.8   | 30.1   | 686.5  | 4559.6 | 5164.9 | 5247.2 |
| 67.5° | 9.6    | 12.0   | 13.7   | 15.4   | 18.8   | 26.6   | 505.5  | 4149.4 | 4817.5 | 4885.8 |
| 70°   | 8.5    | 10.6   | 12.3   | 13.7   | 16.4   | 22.5   | 306.7  | 3521.0 | 4337.3 | 4365.6 |
| 72.5° | 8.2    | 9.6    | 11.3   | 12.3   | 14.3   | 19.8   | 155.4  | 2587.6 | 3467.4 | 3513.5 |
| 75°   | 7.2    | 8.5    | 10.2   | 10.9   | 12.6   | 17.1   | 63.2   | 1699.5 | 2512.8 | 2586.9 |
| 77.5° | 5.8    | 7.9    | 9.2    | 9.9    | 10.9   | 14.0   | 32.1   | 1086.1 | 1763.4 | 1811.2 |
| 80°   | 2.0    | 5.8    | 7.9    | 8.2    | 9.2    | 10.2   | 21.2   | 594.6  | 1022.9 | 1043.4 |
| 82.5° | 0.0    | 3.8    | 6.1    | 5.8    | 6.5    | 7.9    | 13.7   | 282.8  | 675.2  | 682.8  |
| 85°   | 0.0    | 1.7    | 4.8    | 3.8    | 2.7    | 5.5    | 4.8    | 61.8   | 354.2  | 368.9  |
| 87.5° | 0.0    | 0.0    | 0.3    | 1.7    | 1.4    | 2.0    | 0.7    | 0.3    | 32.1   | 40.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

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

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

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

**Test Information**

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

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

**Spectral Parameters**

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



**Test Conditions**

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

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

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

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

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 4-step quadrangle

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

**Photopic Flux vs. Wavelength**

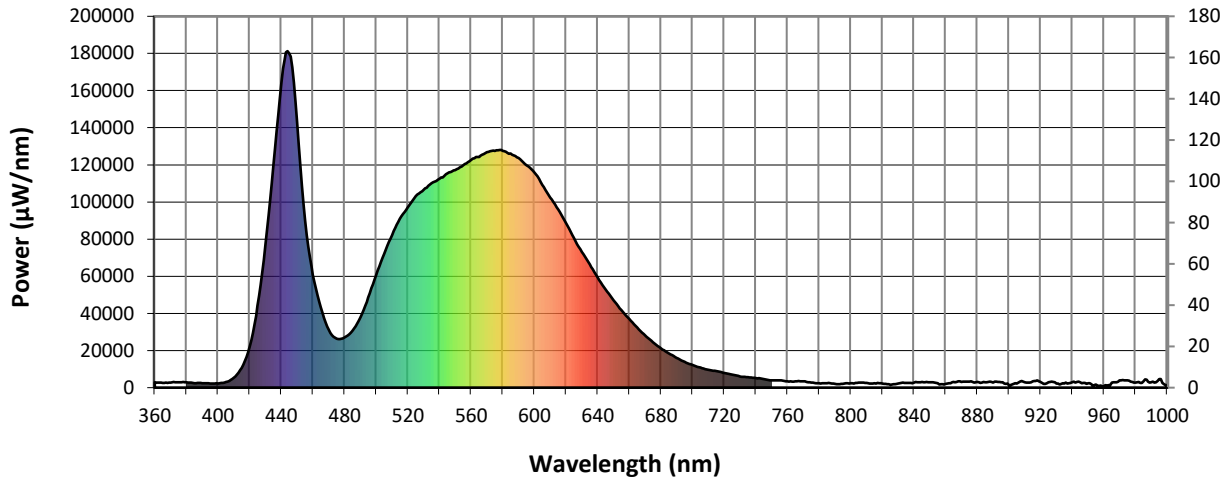


#####

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

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

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13493.5 S/P: 1.77

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



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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 5378.9 M/P: 0.71**

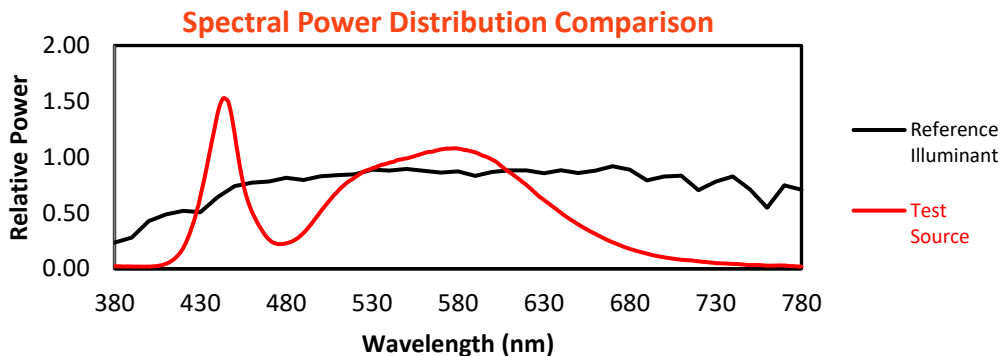
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|--------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

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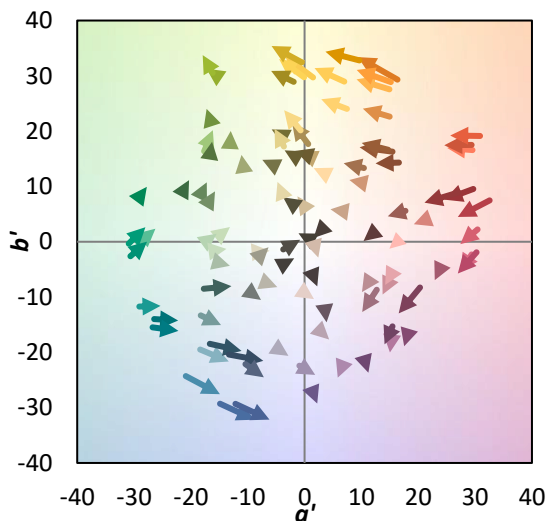
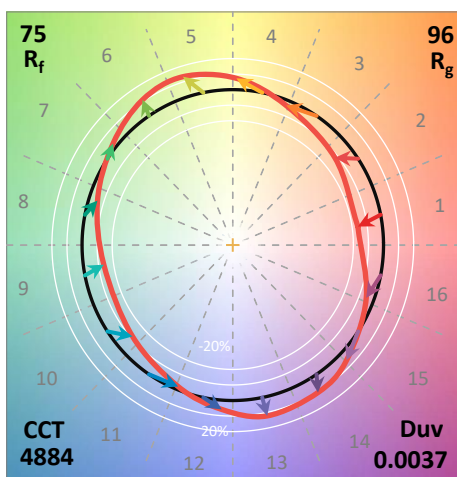
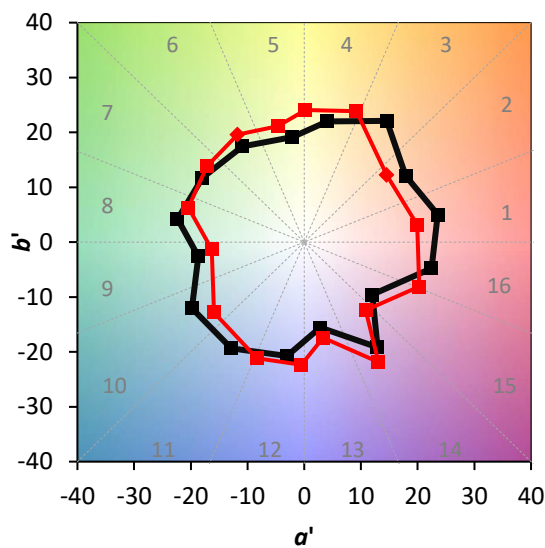
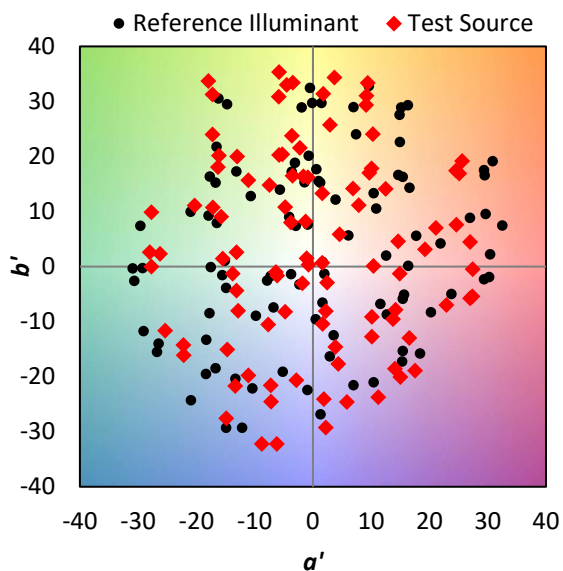
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Summary

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



Color Vector Graphics



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

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



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)