

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: P639773

Luminaire Tested: GWS-SA5C-750-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-750-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14882.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

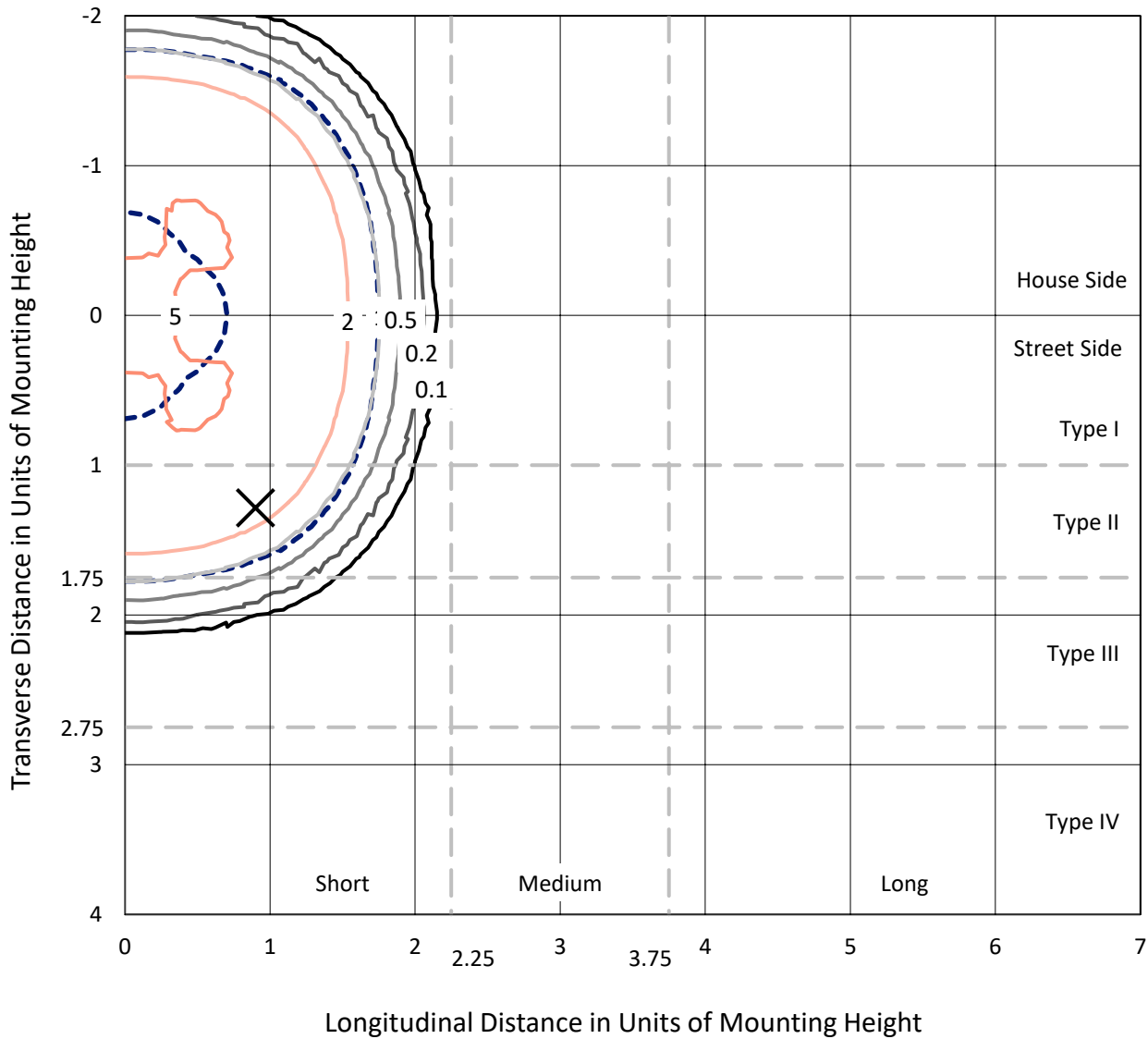
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

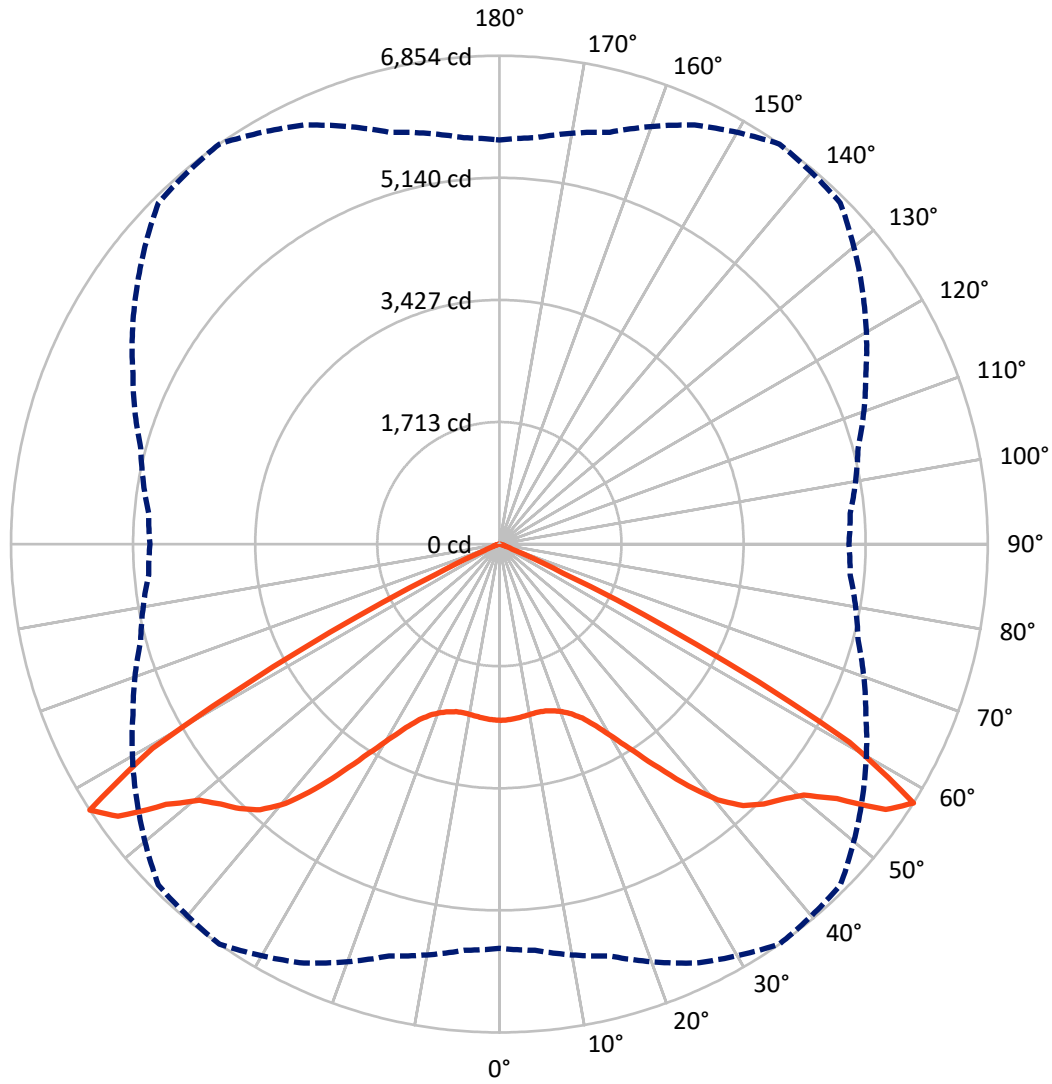
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7441.3 | 0.0 | 7441.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7441.3 | 0.0 | 7441.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14882.6 | 0.0 | 14882.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.1 | 1.6 |
| 10°-20° | 685.8 | 4.6 |
| 20°-30° | 1239.5 | 8.3 |
| 30°-40° | 2312.5 | 15.5 |
| 40°-50° | 3879.2 | 26.1 |
| 50°-60° | 5122.8 | 34.4 |
| 60°-70° | 1360.5 | 9.1 |
| 70°-80° | 48.3 | 0.3 |
| 80°-90° | 0.9 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 14882.6 | 100.0 |
| 0°-180° | 14882.6 | 100.0 |

Coefficient of Utilization



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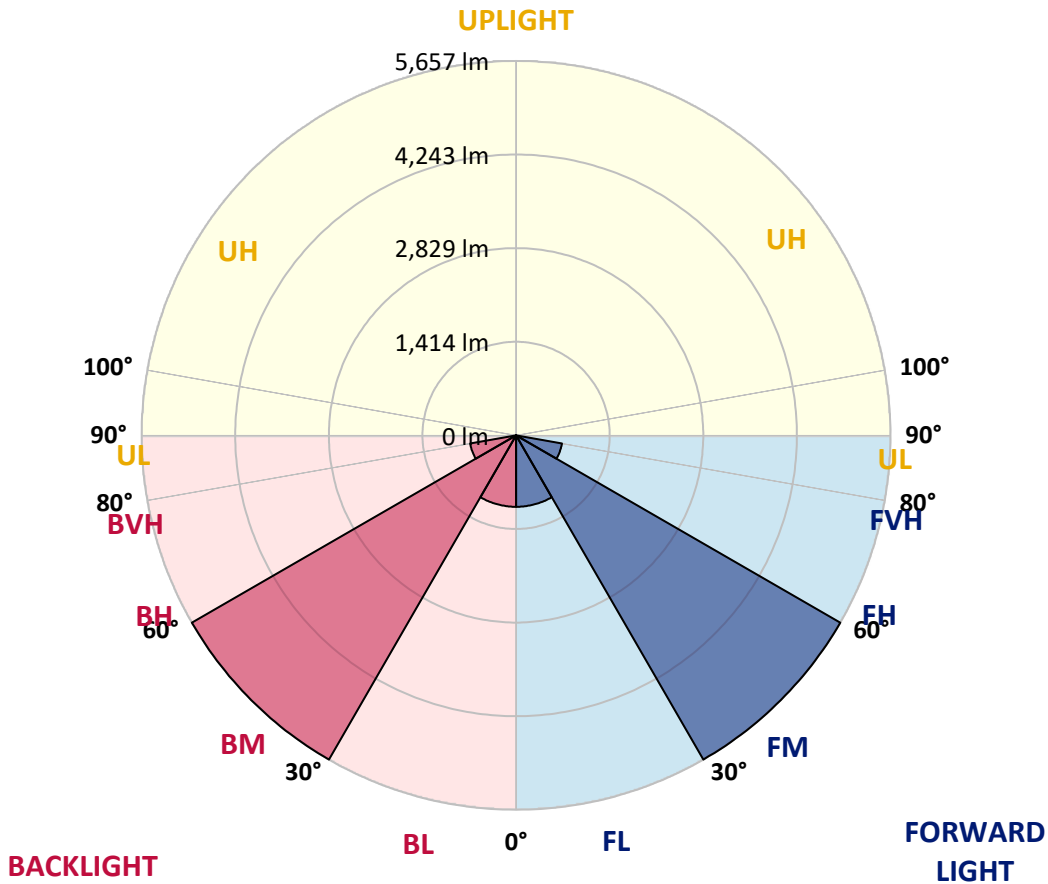
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1079.2 | 7.3 | | | |
| FM (30°-60°) | 5657.2 | 38.0 | | | |
| FH (60°-80°) | 704.4 | 4.7 | | | G1/1800 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1079.2 | 7.3 | B3/2500 | | |
| BM (30°-60°) | 5657.2 | 38.0 | B4/8500 | | |
| BH (60°-80°) | 704.4 | 4.7 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 | 2474.4 |
| 2.5° | 2456.9 | 2455.2 | 2462.1 | 2467.4 | 2467.4 | 2479.6 | 2476.1 | 2472.6 | 2469.1 | 2463.9 | 2476.1 |
| 5° | 2453.4 | 2451.7 | 2456.9 | 2460.4 | 2456.9 | 2467.4 | 2460.4 | 2453.4 | 2449.9 | 2442.9 | 2456.9 |
| 7.5° | 2437.7 | 2439.4 | 2442.9 | 2446.4 | 2441.2 | 2449.9 | 2441.2 | 2430.7 | 2422.0 | 2415.0 | 2427.2 |
| 10° | 2413.2 | 2415.0 | 2418.5 | 2425.5 | 2427.2 | 2439.4 | 2427.2 | 2408.0 | 2395.8 | 2385.3 | 2397.5 |
| 12.5° | 2401.0 | 2402.8 | 2408.0 | 2416.7 | 2418.5 | 2434.2 | 2418.5 | 2390.5 | 2373.1 | 2360.9 | 2373.1 |
| 15° | 2404.5 | 2408.0 | 2415.0 | 2425.5 | 2429.0 | 2444.7 | 2423.7 | 2387.1 | 2362.6 | 2346.9 | 2357.4 |
| 17.5° | 2416.7 | 2420.2 | 2430.7 | 2448.2 | 2460.4 | 2476.1 | 2449.9 | 2402.8 | 2369.6 | 2346.9 | 2357.4 |
| 20° | 2432.5 | 2437.7 | 2455.2 | 2483.1 | 2509.3 | 2537.2 | 2504.1 | 2439.4 | 2395.8 | 2367.8 | 2376.6 |
| 22.5° | 2476.1 | 2481.4 | 2505.8 | 2542.5 | 2586.1 | 2621.0 | 2580.9 | 2498.8 | 2439.4 | 2402.8 | 2411.5 |
| 25° | 2565.2 | 2570.4 | 2601.8 | 2649.0 | 2704.9 | 2750.3 | 2699.6 | 2596.6 | 2519.8 | 2477.9 | 2481.4 |
| 27.5° | 2704.9 | 2710.1 | 2746.8 | 2813.1 | 2888.2 | 2952.8 | 2879.5 | 2759.0 | 2671.7 | 2622.8 | 2622.8 |
| 30° | 2881.2 | 2888.2 | 2937.1 | 3026.2 | 3143.2 | 3228.7 | 3129.2 | 2982.5 | 2870.8 | 2804.4 | 2806.1 |
| 32.5° | 3108.2 | 3101.3 | 3171.1 | 3293.3 | 3459.2 | 3572.7 | 3426.0 | 3247.9 | 3110.0 | 3017.4 | 3026.2 |
| 35° | 3399.9 | 3398.1 | 3476.7 | 3642.6 | 3859.1 | 3995.3 | 3820.7 | 3590.2 | 3424.3 | 3330.0 | 3331.8 |
| 37.5° | 3775.3 | 3773.5 | 3864.3 | 4044.2 | 4304.4 | 4417.9 | 4222.3 | 3988.3 | 3810.2 | 3719.4 | 3729.9 |
| 40° | 4215.3 | 4204.9 | 4285.2 | 4458.1 | 4718.2 | 4791.6 | 4578.5 | 4389.9 | 4218.8 | 4161.2 | 4189.1 |
| 42.5° | 4634.4 | 4611.7 | 4658.9 | 4816.0 | 5016.8 | 5027.3 | 4866.7 | 4737.4 | 4620.4 | 4575.0 | 4592.5 |
| 45° | 4971.4 | 4954.0 | 4997.6 | 5088.4 | 5203.7 | 5151.3 | 5074.5 | 5034.3 | 4940.0 | 4891.1 | 4906.8 |
| 47.5° | 5222.9 | 5222.9 | 5275.3 | 5331.2 | 5348.6 | 5252.6 | 5264.8 | 5264.8 | 5170.5 | 5093.7 | 5074.5 |
| 50° | 5439.4 | 5455.1 | 5533.7 | 5591.3 | 5533.7 | 5411.5 | 5481.3 | 5467.4 | 5275.3 | 5121.6 | 5081.4 |
| 52.5° | 5785.2 | 5800.9 | 5921.4 | 5999.9 | 5935.3 | 5814.8 | 5823.6 | 5649.0 | 5366.1 | 5184.5 | 5121.6 |
| 55° | 6151.9 | 6190.3 | 6364.9 | 6574.4 | 6576.2 | 6452.2 | 6221.7 | 5912.6 | 5568.6 | 5371.3 | 5306.7 |
| 57.5° | 5671.7 | 5724.0 | 5984.2 | 6488.9 | 6853.8 | 6768.3 | 6218.2 | 5675.2 | 5210.7 | 4941.7 | 4905.1 |
| 60° | 3902.8 | 3993.6 | 4253.7 | 4943.5 | 5647.2 | 5680.4 | 5030.8 | 4421.4 | 3888.8 | 3557.0 | 3564.0 |
| 62.5° | 1648.4 | 1741.0 | 1887.6 | 2455.2 | 3101.3 | 3141.4 | 2827.1 | 2390.5 | 1955.7 | 1716.5 | 1753.2 |
| 65° | 387.7 | 413.8 | 457.5 | 679.3 | 984.9 | 1030.3 | 949.9 | 740.4 | 546.6 | 462.7 | 471.5 |
| 67.5° | 169.4 | 172.9 | 164.1 | 174.6 | 216.5 | 221.8 | 214.8 | 188.6 | 178.1 | 181.6 | 181.6 |
| 70° | 118.7 | 120.5 | 113.5 | 108.3 | 103.0 | 96.0 | 99.5 | 110.0 | 118.7 | 125.7 | 124.0 |
| 72.5° | 73.3 | 75.1 | 76.8 | 76.8 | 71.6 | 64.6 | 68.1 | 75.1 | 76.8 | 78.6 | 76.8 |
| 75° | 36.7 | 38.4 | 41.9 | 43.7 | 41.9 | 40.2 | 40.2 | 41.9 | 41.9 | 40.2 | 40.2 |
| 77.5° | 7.0 | 8.7 | 12.2 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 15.7 | 14.0 | 14.0 |
| 80° | 1.7 | 1.7 | 3.5 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)