

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: P639283

Luminaire Tested: GWS-SA5B-750-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18983.6 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

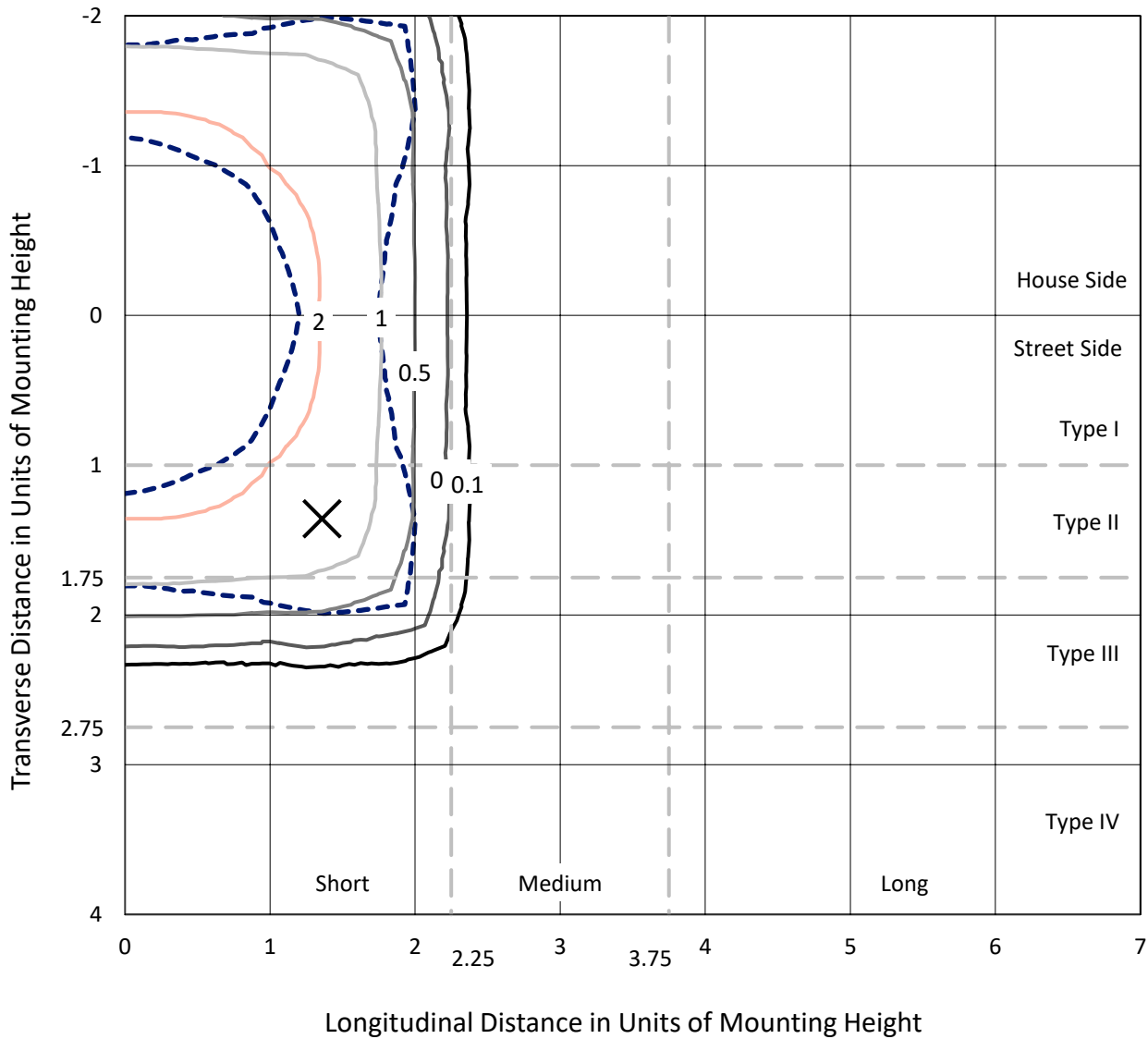
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

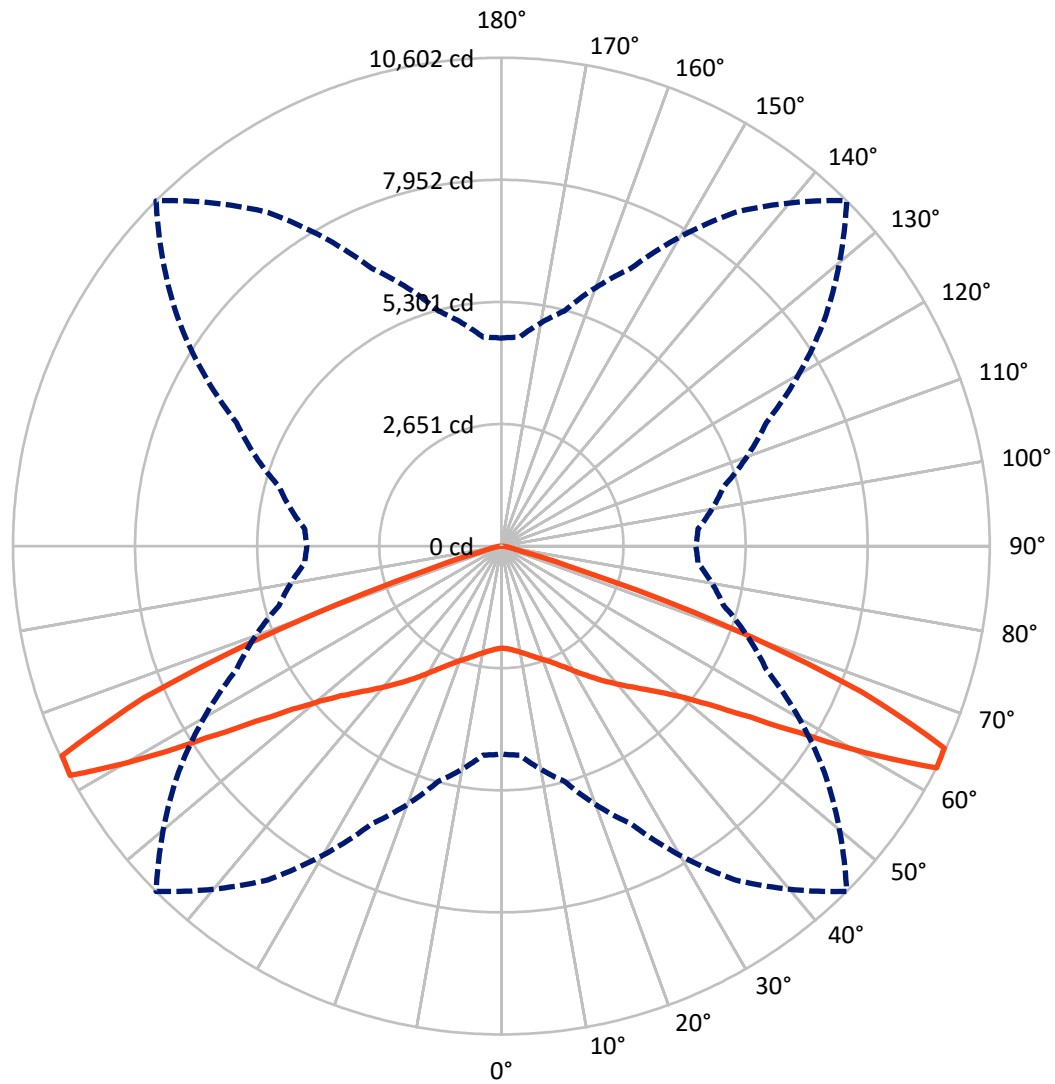
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9491.8 | 0.0 | 9491.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9491.8 | 0.0 | 9491.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18983.6 | 0.0 | 18983.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 217.3 | 1.1 |
| 10°-20° | 700.7 | 3.7 |
| 20°-30° | 1325.7 | 7.0 |
| 30°-40° | 2231.3 | 11.8 |
| 40°-50° | 3565.0 | 18.8 |
| 50°-60° | 5746.6 | 30.3 |
| 60°-70° | 4688.6 | 24.7 |
| 70°-80° | 455.3 | 2.4 |
| 80°-90° | 53.0 | 0.3 |
| 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° | 18983.6 | 100.0 |
| 0°-180° | 18983.6 | 100.0 |

Coefficient of Utilization



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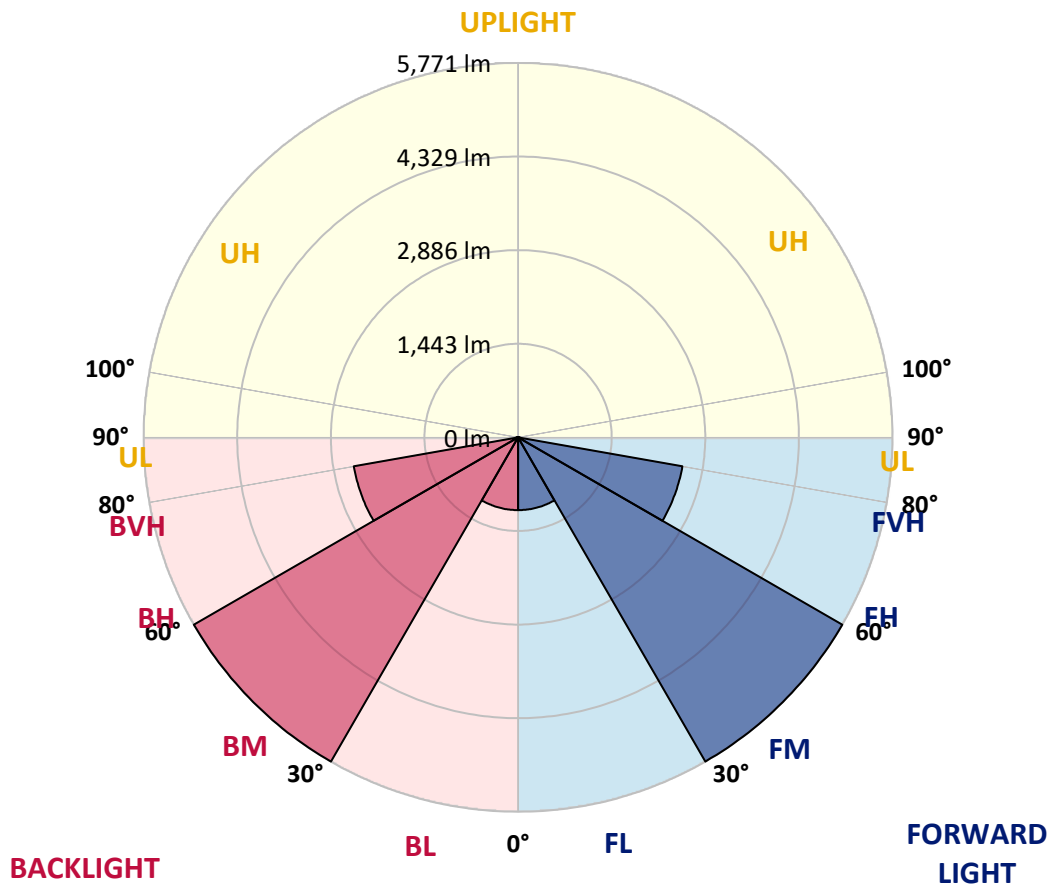
CATALOG NUMBER: GWS-SA5B-750-U-5NQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1121.9 | 5.9 | | | |
| FM (30°-60°) | 5771.5 | 30.4 | | | |
| FH (60°-80°) | 2572.0 | 13.5 | | | G2/5000 |
| FVH (80°-90°) | 26.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1121.9 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 5771.5 | 30.4 | B4/8500 | | |
| BH (60°-80°) | 2572.0 | 13.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 26.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 | 2214.7 |
| 2.5° | 2212.1 | 2212.1 | 2217.3 | 2221.2 | 2218.6 | 2229.0 | 2227.7 | 2225.1 | 2223.8 | 2219.9 | 2231.6 |
| 5° | 2242.0 | 2242.0 | 2245.9 | 2249.8 | 2243.3 | 2256.4 | 2251.1 | 2248.5 | 2247.2 | 2242.0 | 2252.5 |
| 7.5° | 2275.9 | 2279.8 | 2281.1 | 2287.6 | 2283.7 | 2298.0 | 2294.1 | 2288.9 | 2286.3 | 2279.8 | 2288.9 |
| 10° | 2313.6 | 2316.2 | 2317.6 | 2329.3 | 2330.6 | 2347.5 | 2343.6 | 2337.1 | 2331.9 | 2325.4 | 2338.4 |
| 12.5° | 2364.4 | 2365.7 | 2369.6 | 2384.0 | 2387.9 | 2400.9 | 2399.6 | 2390.5 | 2384.0 | 2374.8 | 2389.2 |
| 15° | 2429.5 | 2430.8 | 2437.3 | 2451.7 | 2458.2 | 2473.8 | 2468.6 | 2454.3 | 2445.1 | 2434.7 | 2446.4 |
| 17.5° | 2497.2 | 2502.4 | 2508.9 | 2523.3 | 2532.4 | 2550.6 | 2544.1 | 2528.5 | 2520.7 | 2510.2 | 2518.1 |
| 20° | 2584.5 | 2585.8 | 2589.7 | 2605.3 | 2611.8 | 2632.6 | 2633.9 | 2618.3 | 2614.4 | 2604.0 | 2615.7 |
| 22.5° | 2680.8 | 2682.1 | 2686.0 | 2702.9 | 2714.7 | 2727.7 | 2735.5 | 2726.4 | 2719.9 | 2706.8 | 2721.2 |
| 25° | 2787.6 | 2800.6 | 2804.5 | 2825.3 | 2838.3 | 2846.2 | 2855.3 | 2851.4 | 2842.3 | 2826.6 | 2833.1 |
| 27.5° | 2937.3 | 2939.9 | 2946.4 | 2969.8 | 2977.7 | 2985.5 | 2994.6 | 2995.9 | 2982.9 | 2964.6 | 2973.8 |
| 30° | 3107.9 | 3106.6 | 3120.9 | 3139.1 | 3145.6 | 3152.1 | 3165.1 | 3173.0 | 3156.0 | 3136.5 | 3145.6 |
| 32.5° | 3282.3 | 3298.0 | 3316.2 | 3333.1 | 3329.2 | 3331.8 | 3352.6 | 3367.0 | 3343.5 | 3308.4 | 3316.2 |
| 35° | 3478.9 | 3489.3 | 3512.8 | 3537.5 | 3532.3 | 3528.4 | 3541.4 | 3555.7 | 3523.2 | 3477.6 | 3489.3 |
| 37.5° | 3680.7 | 3696.4 | 3731.5 | 3761.5 | 3753.7 | 3735.4 | 3749.7 | 3765.4 | 3734.1 | 3682.0 | 3676.8 |
| 40° | 3906.0 | 3930.7 | 3981.5 | 4006.2 | 3985.4 | 3950.3 | 3975.0 | 4012.7 | 3981.5 | 3921.6 | 3907.3 |
| 42.5° | 4170.3 | 4200.2 | 4251.0 | 4288.8 | 4243.2 | 4185.9 | 4227.6 | 4282.3 | 4274.4 | 4195.0 | 4170.3 |
| 45° | 4497.1 | 4516.6 | 4579.1 | 4597.3 | 4529.6 | 4450.2 | 4525.7 | 4609.1 | 4589.5 | 4503.6 | 4471.0 |
| 47.5° | 4852.5 | 4882.5 | 4937.2 | 4971.0 | 4861.6 | 4762.7 | 4868.2 | 4980.1 | 4959.3 | 4878.6 | 4840.8 |
| 50° | 5305.6 | 5344.7 | 5416.3 | 5444.9 | 5293.9 | 5180.6 | 5316.0 | 5458.0 | 5417.6 | 5309.5 | 5260.1 |
| 52.5° | 5799.1 | 5830.3 | 5952.7 | 6010.0 | 5868.1 | 5745.7 | 5864.2 | 6003.5 | 5917.6 | 5774.3 | 5707.9 |
| 55° | 6234.0 | 6265.2 | 6444.9 | 6635.0 | 6628.5 | 6543.8 | 6603.7 | 6606.3 | 6373.3 | 6136.3 | 6066.0 |
| 57.5° | 6327.7 | 6358.9 | 6701.4 | 7198.7 | 7550.3 | 7647.9 | 7472.1 | 7102.4 | 6515.2 | 6099.8 | 6020.4 |
| 60° | 5827.7 | 5862.9 | 6407.1 | 7315.9 | 8472.1 | 9124.4 | 8314.5 | 7092.0 | 6076.4 | 5513.9 | 5438.4 |
| 62.5° | 4515.3 | 4553.1 | 5284.8 | 6649.3 | 8844.4 | 10602.1 | 8559.3 | 6345.9 | 4998.4 | 4286.2 | 4219.8 |
| 65° | 2156.1 | 2156.1 | 3085.7 | 4769.2 | 8102.3 | 10567.0 | 7851.0 | 4695.0 | 3008.9 | 2311.0 | 2253.8 |
| 67.5° | 533.8 | 536.4 | 794.2 | 1856.6 | 5511.3 | 8433.0 | 5601.2 | 2253.8 | 1059.8 | 749.9 | 730.4 |
| 70° | 333.3 | 332.0 | 368.5 | 502.6 | 1928.3 | 5118.1 | 2290.2 | 679.6 | 431.0 | 380.2 | 377.6 |
| 72.5° | 259.1 | 259.1 | 277.3 | 321.6 | 505.2 | 1743.4 | 667.9 | 377.6 | 312.5 | 281.2 | 281.2 |
| 75° | 204.4 | 204.4 | 217.4 | 240.9 | 298.2 | 449.2 | 355.4 | 279.9 | 242.2 | 221.3 | 218.7 |
| 77.5° | 152.3 | 154.9 | 165.4 | 181.0 | 203.1 | 252.6 | 225.2 | 210.9 | 188.8 | 173.2 | 168.0 |
| 80° | 99.0 | 102.9 | 115.9 | 125.0 | 132.8 | 166.7 | 147.1 | 153.6 | 143.2 | 125.0 | 122.4 |
| 82.5° | 53.4 | 54.7 | 70.3 | 72.9 | 75.5 | 91.1 | 93.7 | 97.6 | 101.6 | 79.4 | 74.2 |
| 85° | 19.5 | 19.5 | 23.4 | 27.3 | 29.9 | 32.5 | 44.3 | 54.7 | 57.3 | 45.6 | 44.3 |
| 87.5° | 3.9 | 3.9 | 3.9 | 2.6 | 2.6 | 2.6 | 7.8 | 14.3 | 23.4 | 18.2 | 18.2 |
| 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)