

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: P641645

Luminaire Tested: GWS-SA6B-735-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21625.6 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

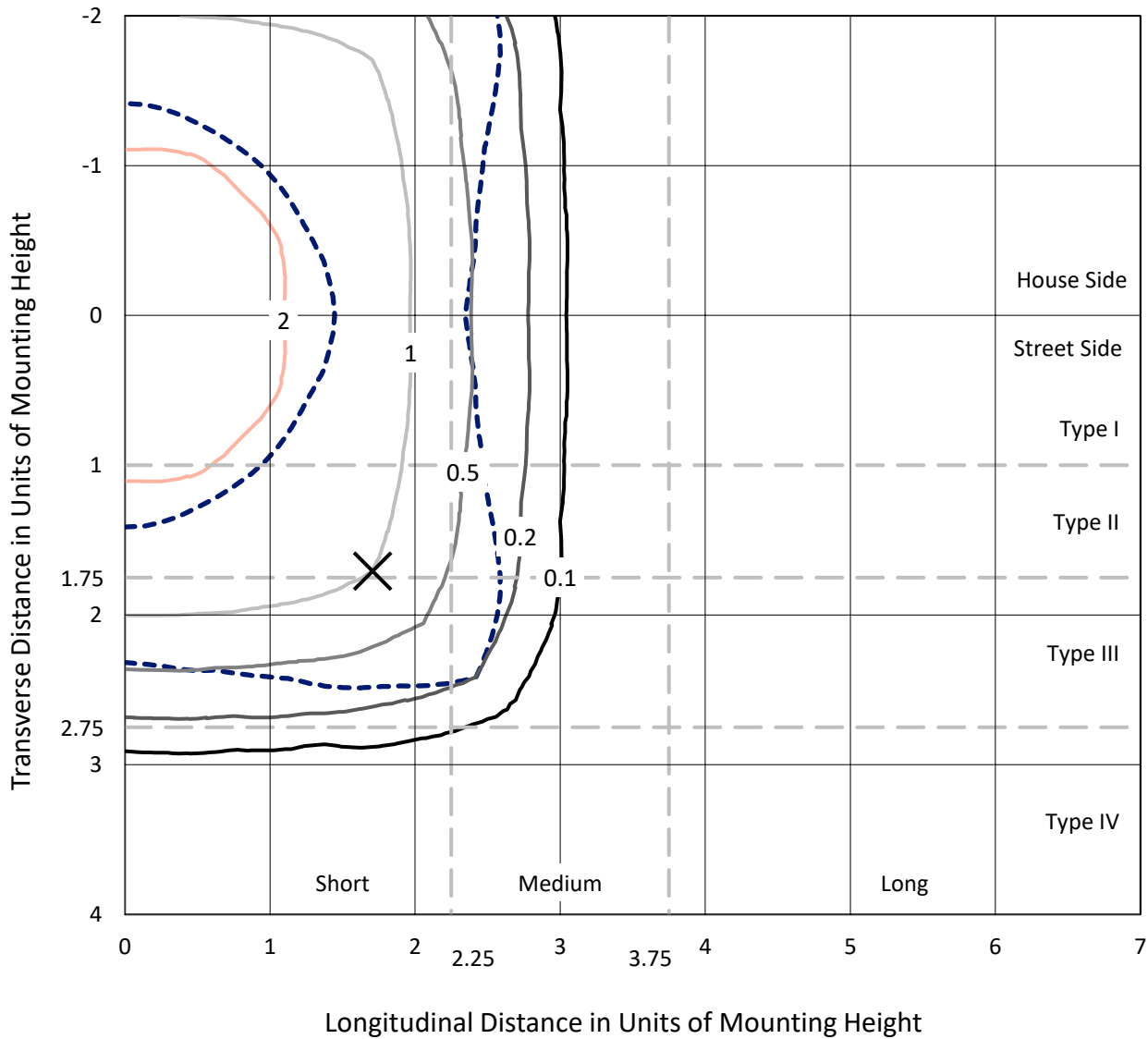
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

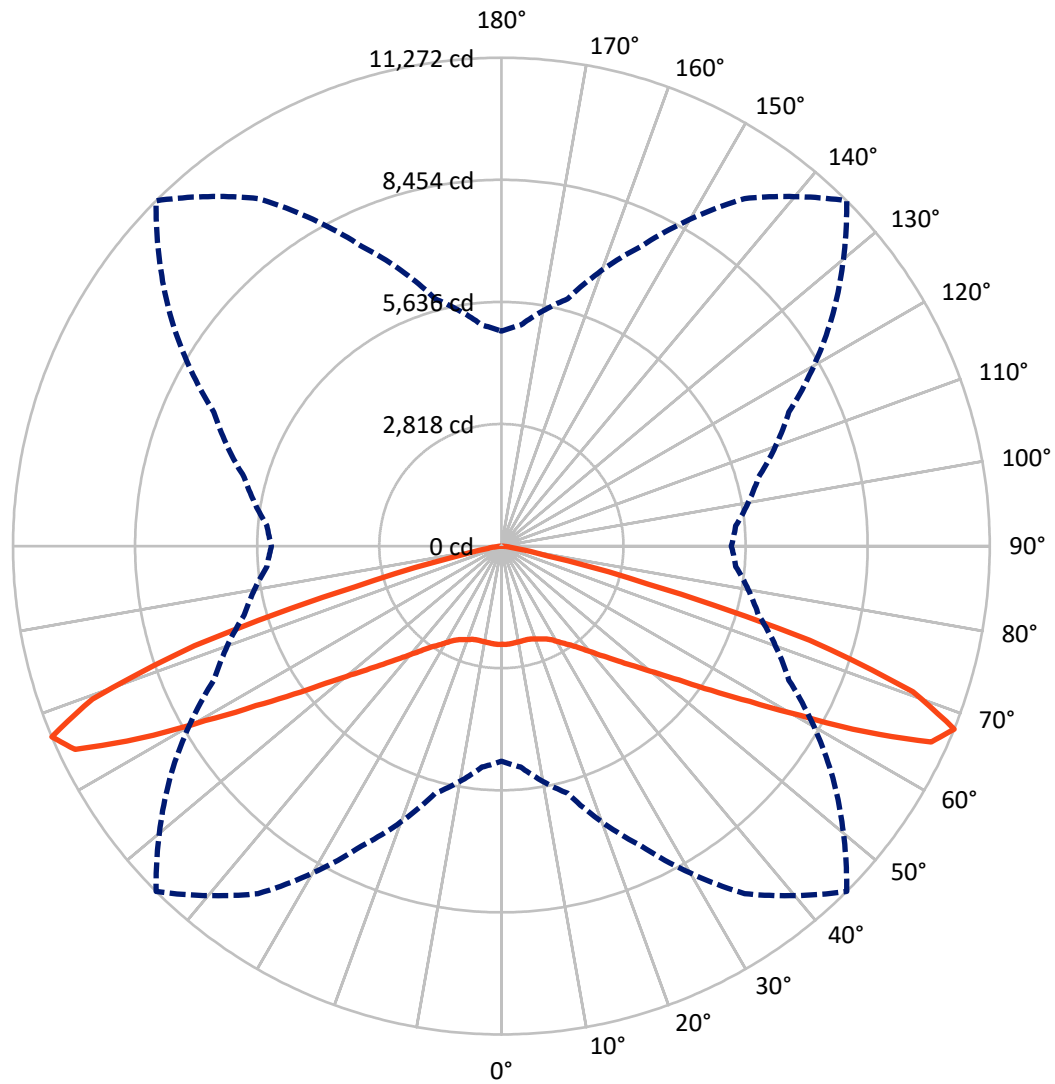
✕ Max cd
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10812.8 | 0.0 | 10812.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10812.8 | 0.0 | 10812.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21625.6 | 0.0 | 21625.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 214.4 | 1.0 |
| 10°-20° | 629.6 | 2.9 |
| 20°-30° | 1085.9 | 5.0 |
| 30°-40° | 1765.7 | 8.2 |
| 40°-50° | 2973.1 | 13.7 |
| 50°-60° | 5267.8 | 24.4 |
| 60°-70° | 7529.9 | 34.8 |
| 70°-80° | 2066.7 | 9.6 |
| 80°-90° | 92.6 | 0.4 |
| 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° | 21625.6 | 100.0 |
| 0°-180° | 21625.6 | 100.0 |

Coefficient of Utilization

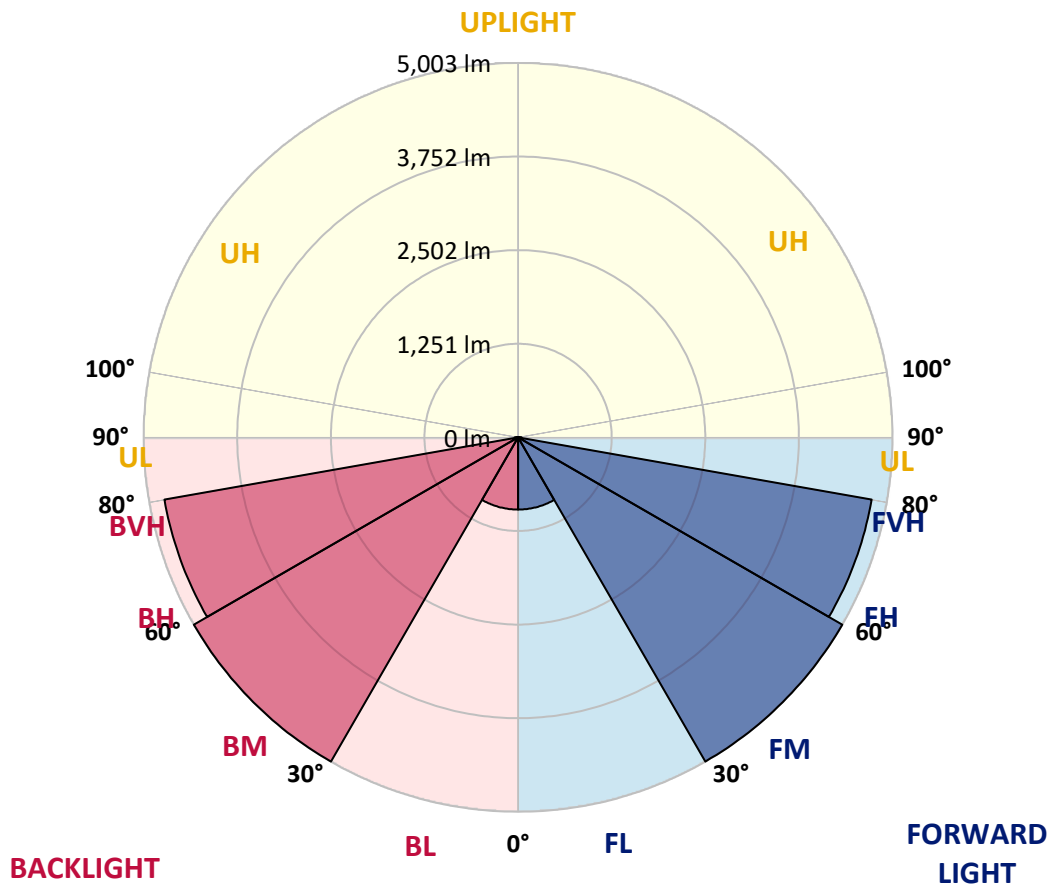


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 964.9 | 4.5 | | | |
| FM (30°-60°) | 5003.3 | 23.1 | | | |
| FH (60°-80°) | 4798.3 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 46.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 964.9 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 5003.3 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4798.3 | 22.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 46.3 | 0.2 | | | 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° | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 | 2264.9 |
| 2.5° | 2249.9 | 2248.4 | 2255.9 | 2260.4 | 2258.9 | 2269.4 | 2267.9 | 2264.9 | 2264.9 | 2260.4 | 2272.4 |
| 5° | 2249.9 | 2248.4 | 2254.4 | 2255.9 | 2252.9 | 2261.9 | 2258.9 | 2255.9 | 2255.9 | 2249.9 | 2260.4 |
| 7.5° | 2238.0 | 2239.5 | 2243.9 | 2246.9 | 2243.9 | 2251.4 | 2246.9 | 2240.9 | 2239.5 | 2233.5 | 2243.9 |
| 10° | 2215.5 | 2217.0 | 2221.5 | 2229.0 | 2230.5 | 2243.9 | 2236.5 | 2226.0 | 2221.5 | 2215.5 | 2226.0 |
| 12.5° | 2202.0 | 2203.5 | 2208.0 | 2217.0 | 2220.0 | 2238.0 | 2230.5 | 2214.0 | 2206.5 | 2200.5 | 2211.0 |
| 15° | 2199.0 | 2200.5 | 2206.5 | 2215.5 | 2220.0 | 2238.0 | 2230.5 | 2211.0 | 2200.5 | 2193.0 | 2202.0 |
| 17.5° | 2199.0 | 2202.0 | 2211.0 | 2224.5 | 2233.5 | 2251.4 | 2242.4 | 2220.0 | 2205.0 | 2191.5 | 2200.5 |
| 20° | 2200.5 | 2205.0 | 2218.5 | 2238.0 | 2260.4 | 2285.9 | 2273.9 | 2243.9 | 2223.0 | 2206.5 | 2212.5 |
| 22.5° | 2214.0 | 2221.5 | 2238.0 | 2263.4 | 2296.3 | 2326.3 | 2315.8 | 2275.4 | 2245.4 | 2223.0 | 2229.0 |
| 25° | 2260.4 | 2263.4 | 2284.4 | 2317.3 | 2348.7 | 2374.2 | 2363.7 | 2326.3 | 2288.9 | 2261.9 | 2269.4 |
| 27.5° | 2342.7 | 2350.2 | 2368.2 | 2402.6 | 2429.6 | 2443.0 | 2441.5 | 2416.1 | 2378.7 | 2354.7 | 2360.7 |
| 30° | 2441.5 | 2449.0 | 2473.0 | 2511.9 | 2538.8 | 2553.8 | 2549.3 | 2529.9 | 2495.4 | 2462.5 | 2468.5 |
| 32.5° | 2556.8 | 2559.8 | 2588.2 | 2631.7 | 2660.1 | 2682.6 | 2667.6 | 2646.6 | 2603.2 | 2564.3 | 2567.3 |
| 35° | 2703.5 | 2708.0 | 2737.9 | 2778.4 | 2800.8 | 2818.8 | 2815.8 | 2794.8 | 2748.4 | 2706.5 | 2717.0 |
| 37.5° | 2887.6 | 2890.6 | 2917.6 | 2968.5 | 2986.4 | 2999.9 | 3002.9 | 2992.4 | 2944.5 | 2890.6 | 2901.1 |
| 40° | 3116.7 | 3118.2 | 3148.1 | 3193.0 | 3212.5 | 3221.5 | 3223.0 | 3224.5 | 3175.1 | 3134.6 | 3131.6 |
| 42.5° | 3383.1 | 3390.6 | 3432.5 | 3475.9 | 3484.9 | 3480.4 | 3495.4 | 3510.4 | 3462.5 | 3407.1 | 3411.6 |
| 45° | 3702.0 | 3706.5 | 3763.4 | 3811.3 | 3794.8 | 3779.8 | 3808.3 | 3838.2 | 3794.8 | 3722.9 | 3702.0 |
| 47.5° | 4079.2 | 4088.2 | 4149.6 | 4197.5 | 4170.5 | 4143.6 | 4190.0 | 4221.4 | 4151.1 | 4074.7 | 4055.3 |
| 50° | 4505.8 | 4511.8 | 4598.7 | 4658.5 | 4627.1 | 4577.7 | 4636.1 | 4669.0 | 4574.7 | 4480.4 | 4438.5 |
| 52.5° | 5010.3 | 4998.3 | 5113.6 | 5218.4 | 5198.9 | 5134.6 | 5182.5 | 5188.5 | 5047.7 | 4914.5 | 4872.6 |
| 55° | 5625.6 | 5613.6 | 5728.9 | 5844.1 | 5892.0 | 5875.6 | 5853.1 | 5817.2 | 5609.1 | 5466.9 | 5428.0 |
| 57.5° | 6342.6 | 6305.2 | 6466.9 | 6622.6 | 6727.3 | 6757.3 | 6661.5 | 6577.6 | 6413.0 | 6237.8 | 6192.9 |
| 60° | 7008.8 | 7007.3 | 7263.3 | 7532.7 | 7820.1 | 7939.9 | 7697.4 | 7469.8 | 7100.1 | 6781.2 | 6716.9 |
| 62.5° | 7195.9 | 7227.3 | 7646.5 | 8314.1 | 9023.7 | 9447.3 | 8808.1 | 8055.1 | 7341.1 | 6860.6 | 6775.2 |
| 65° | 6734.8 | 6812.7 | 7408.5 | 8462.3 | 9863.5 | 10899.4 | 9456.3 | 8068.6 | 7073.1 | 6474.4 | 6384.5 |
| 67.5° | 4963.9 | 5119.6 | 5908.5 | 7636.0 | 9791.6 | 11272.1 | 9341.0 | 7321.6 | 6143.5 | 5431.0 | 5306.7 |
| 70° | 2449.0 | 2597.2 | 3223.0 | 5023.8 | 8056.6 | 10076.0 | 8082.1 | 5517.8 | 4149.6 | 3464.0 | 3350.2 |
| 72.5° | 901.2 | 961.0 | 1206.5 | 2149.6 | 4446.0 | 7442.9 | 5526.8 | 3082.2 | 2010.4 | 1600.3 | 1523.9 |
| 75° | 441.6 | 452.1 | 489.5 | 721.5 | 1640.7 | 3502.9 | 2597.2 | 1182.6 | 739.5 | 643.7 | 622.7 |
| 77.5° | 281.4 | 285.9 | 303.9 | 344.3 | 526.9 | 1103.3 | 787.4 | 467.1 | 362.3 | 347.3 | 347.3 |
| 80° | 157.2 | 161.7 | 185.6 | 214.1 | 247.0 | 378.7 | 282.9 | 279.9 | 238.0 | 208.1 | 203.6 |
| 82.5° | 74.8 | 82.3 | 118.3 | 116.8 | 130.2 | 190.1 | 166.2 | 151.2 | 152.7 | 115.3 | 109.3 |
| 85° | 34.4 | 34.4 | 46.4 | 55.4 | 58.4 | 64.4 | 76.3 | 86.8 | 85.3 | 58.4 | 62.9 |
| 87.5° | 16.5 | 16.5 | 16.5 | 15.0 | 13.5 | 12.0 | 16.5 | 26.9 | 38.9 | 26.9 | 25.4 |
| 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)