

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: P641703

Luminaire Tested: GWS-SA6B-740-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641703  
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-SA6B-740-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

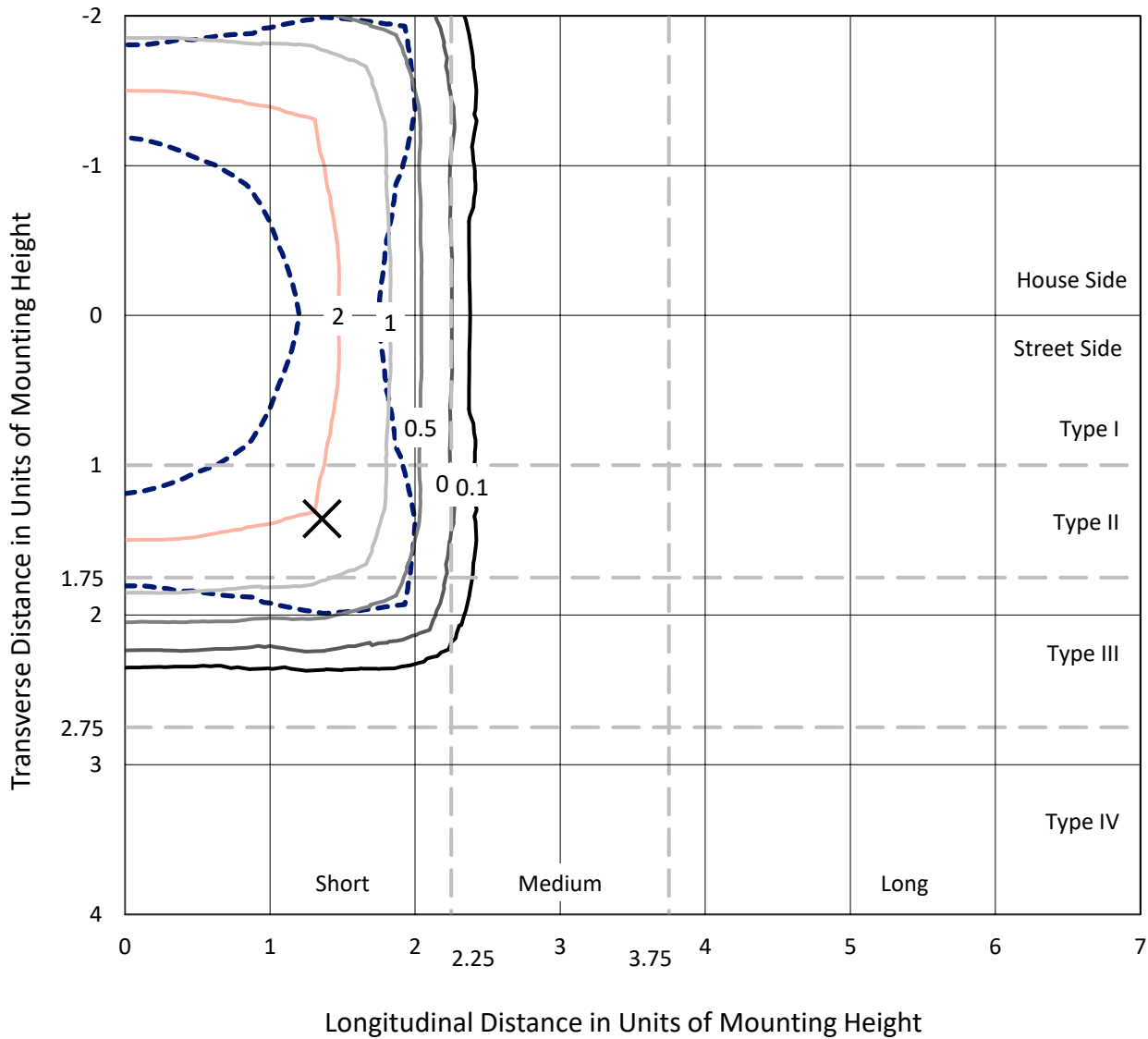
Lumens per Lamp: N/A  
Luminaire Lumens: 22129.5 lumens  
Efficiency: N/A  
Efficacy: 159.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

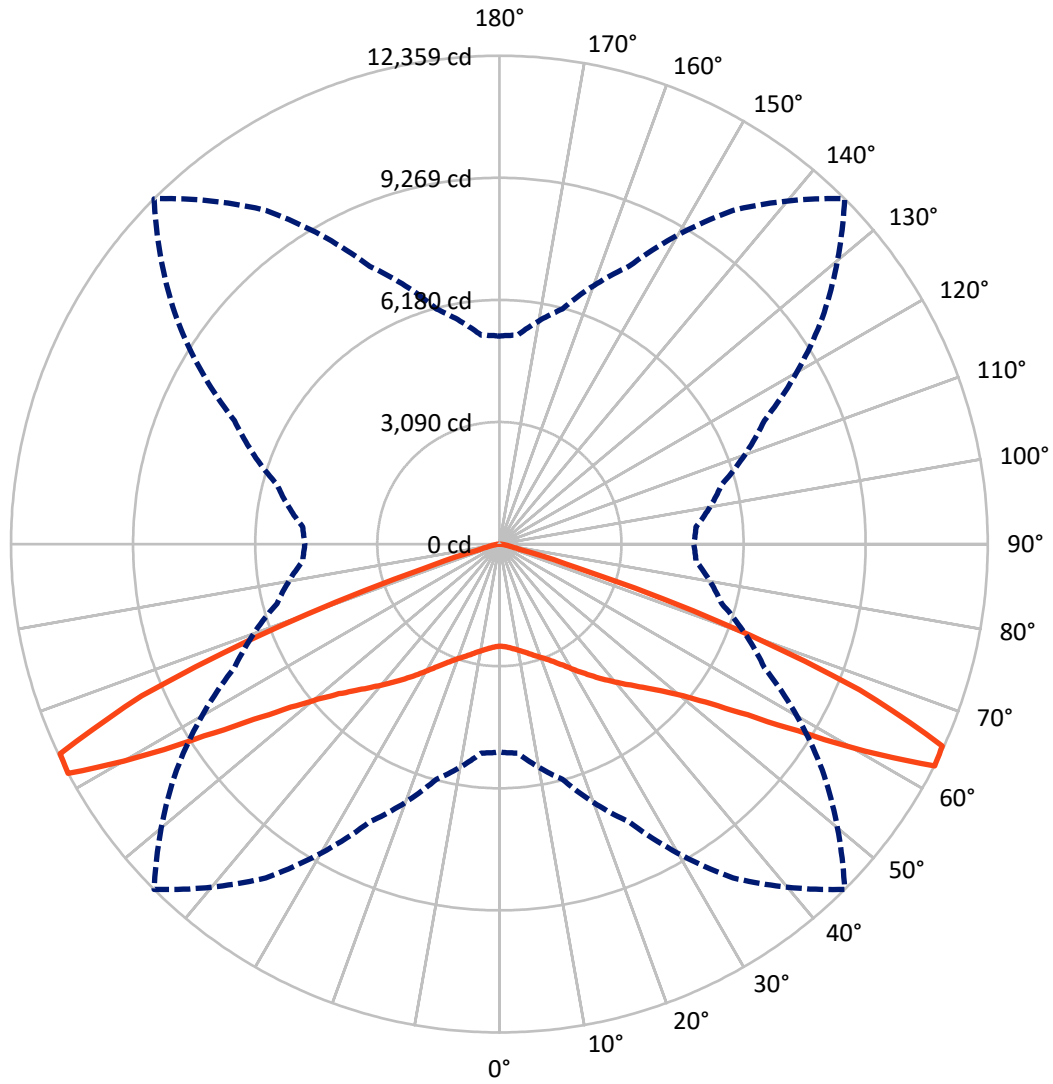
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11064.8  | 0.0    | 11064.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11064.8  | 0.0    | 11064.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22129.5  | 0.0    | 22129.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.3   | 1.1       |
| 10°-20°   | 816.9   | 3.7       |
| 20°-30°   | 1545.4  | 7.0       |
| 30°-40°   | 2601.1  | 11.8      |
| 40°-50°   | 4155.8  | 18.8      |
| 50°-60°   | 6698.9  | 30.3      |
| 60°-70°   | 5465.6  | 24.7      |
| 70°-80°   | 530.8   | 2.4       |
| 80°-90°   | 61.8    | 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°    | 22129.5 | 100.0     |
| 0°-180°   | 22129.5 | 100.0     |

**Coefficient of Utilization**



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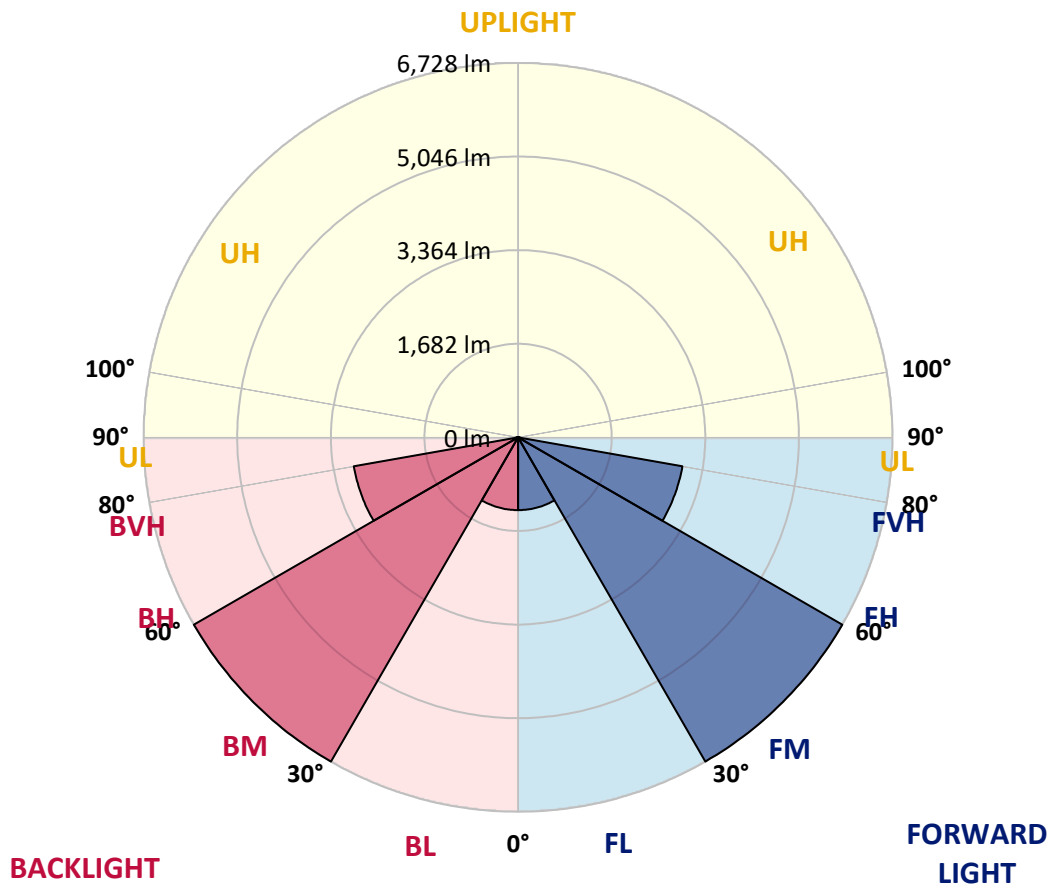
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1307.8 | 5.9       |                         |      |         |
| FM (30°-60°)   | 6727.9 | 30.4      |                         |      |         |
| FH (60°-80°)   | 2998.2 | 13.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 30.9   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1307.8 | 5.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 6727.9 | 30.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 2998.2 | 13.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 30.9   | 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°    | 2581.7 | 2581.7 | 2581.7 | 2581.7 | 2581.7  | 2581.7  | 2581.7 | 2581.7 | 2581.7 | 2581.7 | 2581.7 |
| 2.5°  | 2578.7 | 2578.7 | 2584.7 | 2589.3 | 2586.3  | 2598.4  | 2596.9 | 2593.8 | 2592.3 | 2587.8 | 2601.4 |
| 5°    | 2613.6 | 2613.6 | 2618.1 | 2622.7 | 2615.1  | 2630.3  | 2624.2 | 2621.2 | 2619.6 | 2613.6 | 2625.7 |
| 7.5°  | 2653.0 | 2657.6 | 2659.1 | 2666.7 | 2662.1  | 2678.8  | 2674.3 | 2668.2 | 2665.2 | 2657.6 | 2668.2 |
| 10°   | 2697.1 | 2700.1 | 2701.6 | 2715.3 | 2716.8  | 2736.5  | 2732.0 | 2724.4 | 2718.3 | 2710.7 | 2725.9 |
| 12.5° | 2756.2 | 2757.8 | 2762.3 | 2779.0 | 2783.6  | 2798.7  | 2797.2 | 2786.6 | 2779.0 | 2768.4 | 2785.1 |
| 15°   | 2832.1 | 2833.7 | 2841.2 | 2857.9 | 2865.5  | 2883.7  | 2877.7 | 2861.0 | 2850.3 | 2838.2 | 2851.9 |
| 17.5° | 2911.1 | 2917.1 | 2924.7 | 2941.4 | 2952.0  | 2973.3  | 2965.7 | 2947.5 | 2938.4 | 2926.2 | 2935.3 |
| 20°   | 3012.7 | 3014.3 | 3018.8 | 3037.0 | 3044.6  | 3068.9  | 3070.4 | 3052.2 | 3047.7 | 3035.5 | 3049.2 |
| 22.5° | 3125.1 | 3126.6 | 3131.1 | 3150.9 | 3164.5  | 3179.7  | 3188.8 | 3178.2 | 3170.6 | 3155.4 | 3172.1 |
| 25°   | 3249.5 | 3264.7 | 3269.2 | 3293.5 | 3308.7  | 3317.8  | 3328.4 | 3323.9 | 3313.3 | 3295.1 | 3302.6 |
| 27.5° | 3424.1 | 3427.1 | 3434.7 | 3462.0 | 3471.1  | 3480.2  | 3490.8 | 3492.4 | 3477.2 | 3455.9 | 3466.6 |
| 30°   | 3622.9 | 3621.4 | 3638.1 | 3659.3 | 3666.9  | 3674.5  | 3689.7 | 3698.8 | 3679.0 | 3656.3 | 3666.9 |
| 32.5° | 3826.3 | 3844.5 | 3865.7 | 3885.5 | 3880.9  | 3883.9  | 3908.2 | 3924.9 | 3897.6 | 3856.6 | 3865.7 |
| 35°   | 4055.4 | 4067.6 | 4094.9 | 4123.7 | 4117.7  | 4113.1  | 4128.3 | 4145.0 | 4107.1 | 4053.9 | 4067.6 |
| 37.5° | 4290.7 | 4308.9 | 4349.9 | 4384.8 | 4375.7  | 4354.4  | 4371.1 | 4389.4 | 4352.9 | 4292.2 | 4286.1 |
| 40°   | 4553.3 | 4582.1 | 4641.3 | 4670.1 | 4645.9  | 4604.9  | 4633.7 | 4677.7 | 4641.3 | 4571.5 | 4554.8 |
| 42.5° | 4861.4 | 4896.3 | 4955.5 | 4999.5 | 4946.4  | 4879.6  | 4928.2 | 4991.9 | 4982.8 | 4890.2 | 4861.4 |
| 45°   | 5242.3 | 5265.1 | 5338.0 | 5359.2 | 5280.3  | 5187.7  | 5275.7 | 5372.9 | 5350.1 | 5249.9 | 5212.0 |
| 47.5° | 5656.7 | 5691.6 | 5755.3 | 5794.8 | 5667.3  | 5552.0  | 5674.9 | 5805.4 | 5781.1 | 5687.0 | 5643.0 |
| 50°   | 6184.9 | 6230.4 | 6313.9 | 6347.3 | 6171.2  | 6039.2  | 6197.0 | 6362.4 | 6315.4 | 6189.4 | 6131.7 |
| 52.5° | 6760.1 | 6796.5 | 6939.2 | 7006.0 | 6840.5  | 6697.9  | 6836.0 | 6998.4 | 6898.2 | 6731.3 | 6653.8 |
| 55°   | 7267.0 | 7303.4 | 7512.9 | 7734.5 | 7726.9  | 7628.2  | 7698.1 | 7701.1 | 7429.4 | 7153.2 | 7071.2 |
| 57.5° | 7376.3 | 7412.7 | 7811.9 | 8391.7 | 8801.5  | 8915.3  | 8710.4 | 8279.4 | 7594.9 | 7110.7 | 7018.1 |
| 60°   | 6793.5 | 6834.5 | 7468.9 | 8528.3 | 9876.0  | 10636.4 | 9692.4 | 8267.2 | 7083.4 | 6427.7 | 6339.7 |
| 62.5° | 5263.6 | 5307.6 | 6160.6 | 7751.2 | 10310.1 | 12359.1 | 9977.7 | 7397.5 | 5826.7 | 4996.5 | 4919.1 |
| 65°   | 2513.4 | 2513.4 | 3597.1 | 5559.5 | 9445.0  | 12318.1 | 9152.1 | 5473.0 | 3507.5 | 2694.0 | 2627.2 |
| 67.5° | 622.3  | 625.3  | 925.8  | 2164.3 | 6424.7  | 9830.5  | 6529.4 | 2627.2 | 1235.5 | 874.2  | 851.5  |
| 70°   | 388.5  | 387.0  | 429.5  | 585.9  | 2247.8  | 5966.3  | 2669.7 | 792.3  | 502.4  | 443.2  | 440.1  |
| 72.5° | 302.0  | 302.0  | 323.3  | 374.9  | 588.9   | 2032.3  | 778.6  | 440.1  | 364.3  | 327.8  | 327.8  |
| 75°   | 238.3  | 238.3  | 253.5  | 280.8  | 347.6   | 523.6   | 414.3  | 326.3  | 282.3  | 258.0  | 255.0  |
| 77.5° | 177.6  | 180.6  | 192.8  | 211.0  | 236.8   | 294.4   | 262.6  | 245.9  | 220.1  | 201.9  | 195.8  |
| 80°   | 115.3  | 119.9  | 135.1  | 145.7  | 154.8   | 194.3   | 171.5  | 179.1  | 167.0  | 145.7  | 142.7  |
| 82.5° | 62.2   | 63.7   | 82.0   | 85.0   | 88.0    | 106.2   | 109.3  | 113.8  | 118.4  | 92.6   | 86.5   |
| 85°   | 22.8   | 22.8   | 27.3   | 31.9   | 34.9    | 37.9    | 51.6   | 63.7   | 66.8   | 53.1   | 51.6   |
| 87.5° | 4.6    | 4.6    | 4.6    | 3.0    | 3.0     | 3.0     | 9.1    | 16.7   | 27.3   | 21.2   | 21.2   |
| 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)