

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: P639444

Luminaire Tested: GWS-SA5B-830-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-830-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

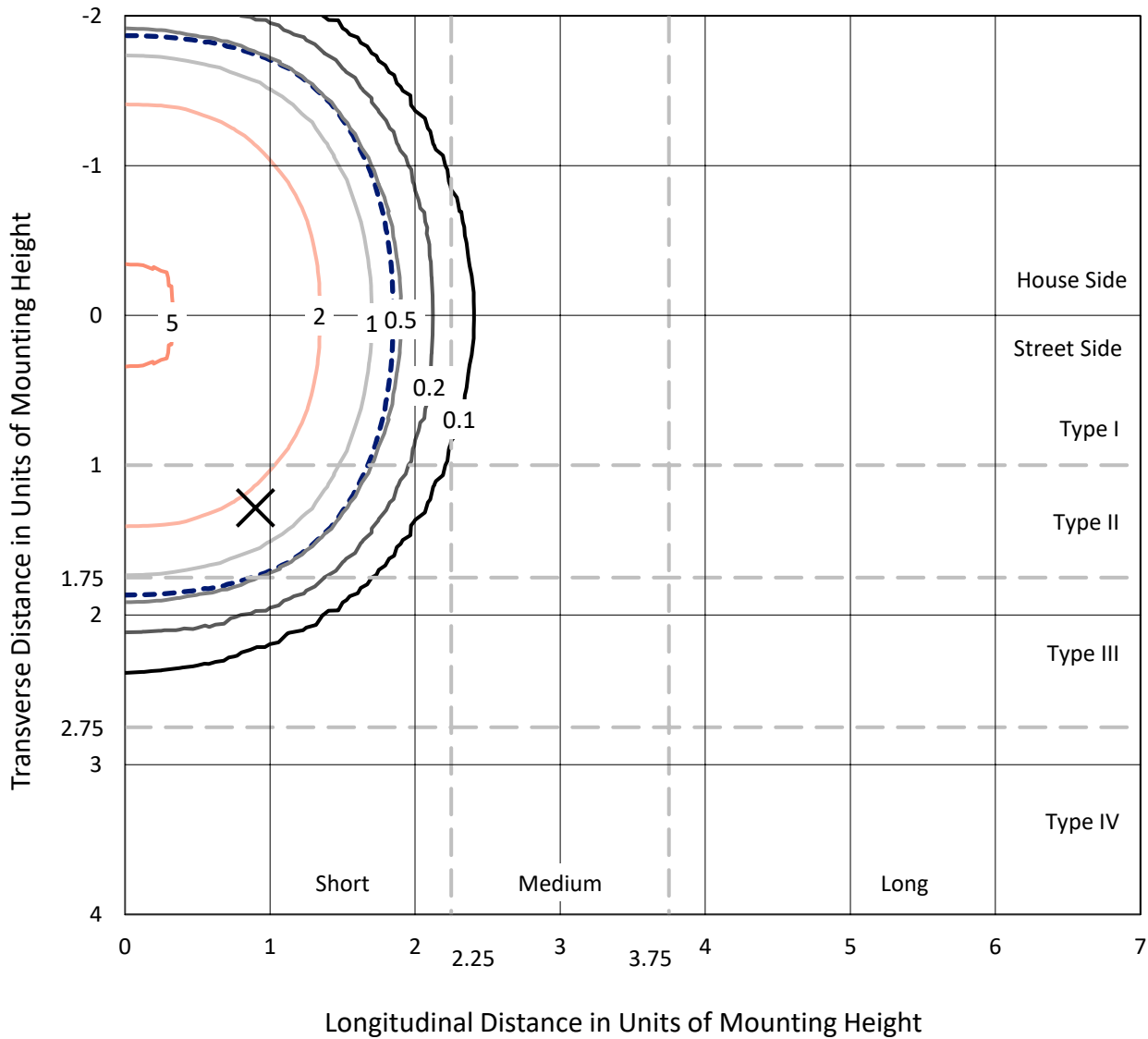
Lumens per Lamp: N/A  
Luminaire Lumens: 12350.2 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

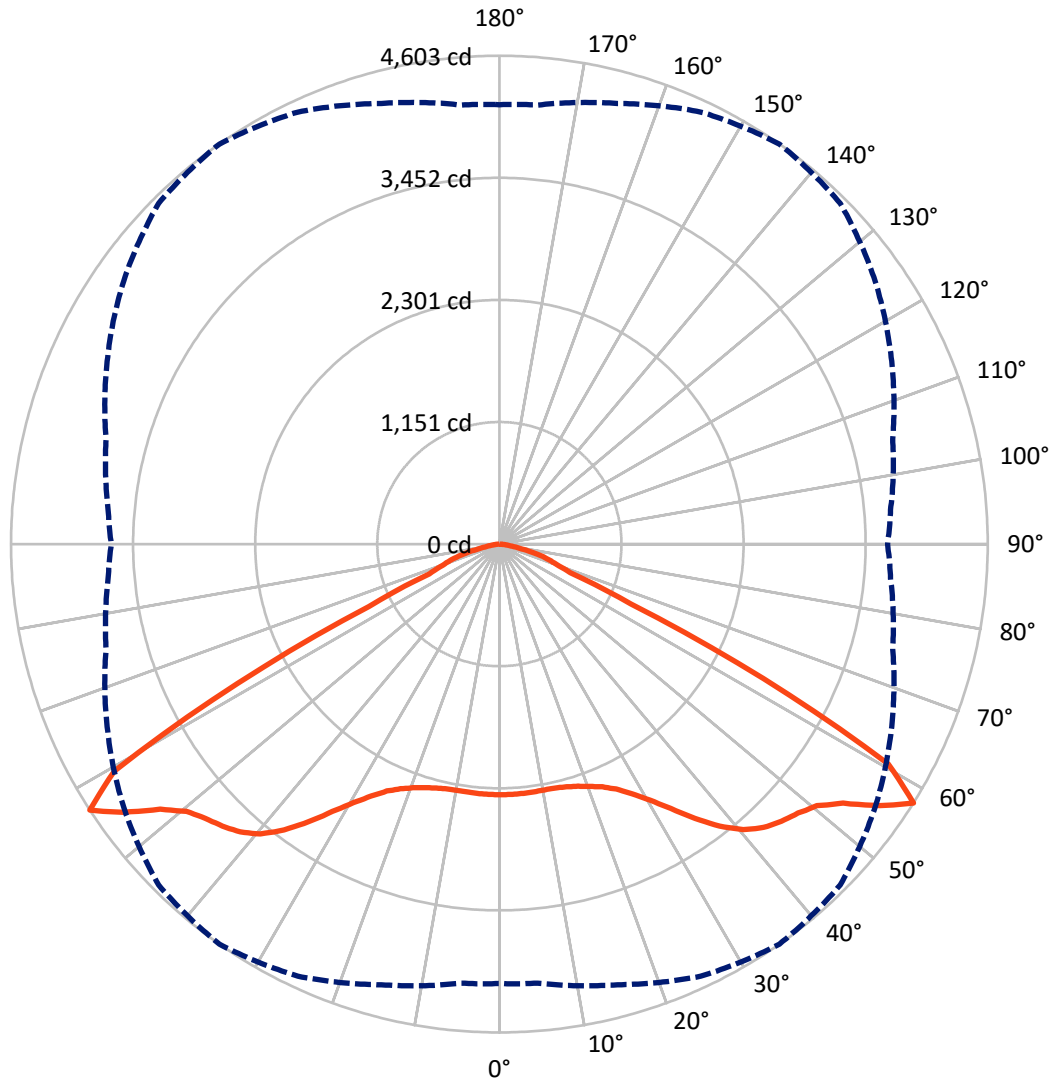
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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
<b>House Side</b>	Lumens	6175.1	0.0	6175.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6175.1	0.0	6175.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12350.2	0.0	12350.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	1.8
10°-20°	670.7	5.4
20°-30°	1170.3	9.5
30°-40°	1919.0	15.5
40°-50°	2826.2	22.9
50°-60°	3606.7	29.2
60°-70°	1520.0	12.3
70°-80°	363.1	2.9
80°-90°	49.4	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°	12350.2	100.0
0°-180°	12350.2	100.0

**Coefficient of Utilization**



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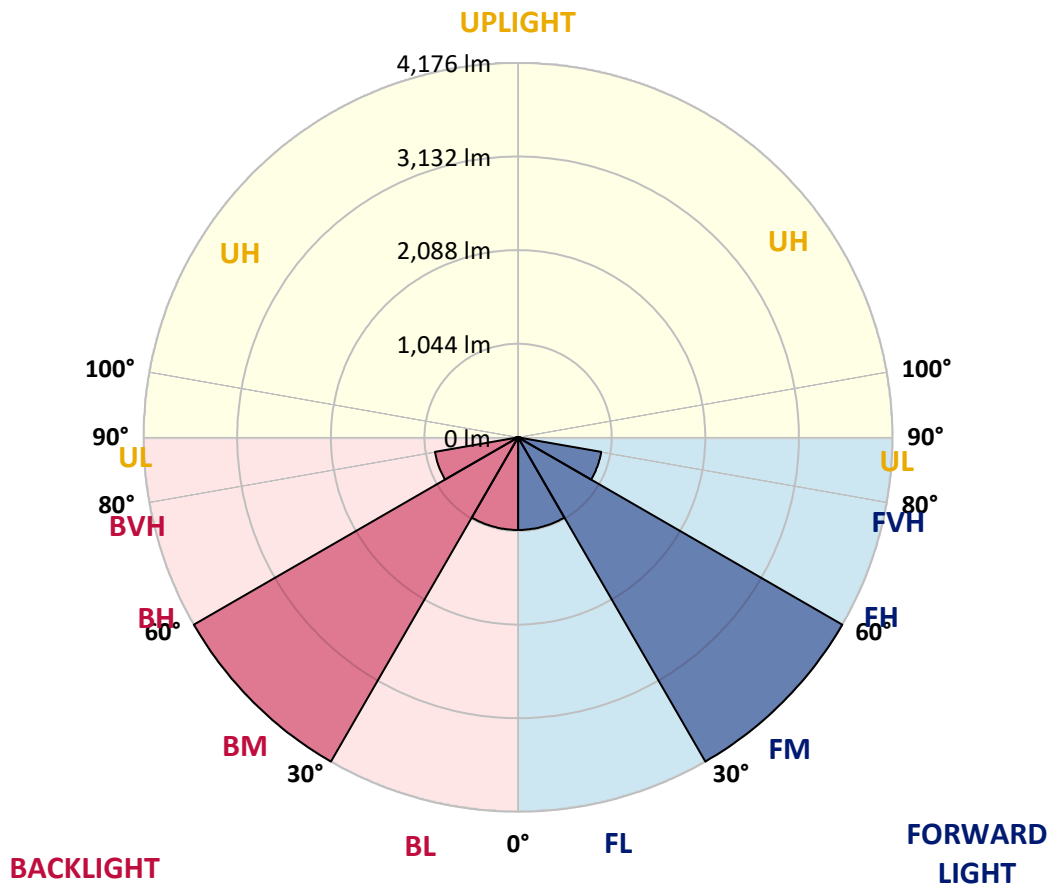
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.9	8.4			
FM (30°-60°)	4175.9	33.8			
FH (60°-80°)	941.6	7.6			G1/1800
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	1032.9	8.4	B3/2500		
BM (30°-60°)	4175.9	33.8	B3/5000		
BH (60°-80°)	941.6	7.6	B2/1000		G1/1800
BVH (80°-90°)	24.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1	2363.1
2.5°	2348.9	2348.9	2354.0	2359.0	2361.0	2370.1	2369.1	2366.1	2364.1	2358.0	2366.1
5°	2354.0	2354.0	2358.0	2361.0	2360.0	2367.1	2364.1	2359.0	2356.0	2349.9	2359.0
7.5°	2353.0	2353.0	2356.0	2359.0	2357.0	2363.1	2358.0	2350.9	2345.9	2339.8	2347.9
10°	2339.8	2341.8	2344.9	2351.9	2355.0	2364.1	2357.0	2345.9	2337.8	2330.7	2338.8
12.5°	2337.8	2339.8	2343.9	2353.0	2358.0	2371.2	2362.1	2343.9	2331.7	2322.6	2330.7
15°	2346.9	2348.9	2355.0	2366.1	2374.2	2388.3	2375.2	2349.9	2332.7	2320.6	2327.7
17.5°	2358.0	2361.0	2370.1	2386.3	2399.5	2414.6	2398.5	2368.1	2343.9	2327.7	2333.7
20°	2370.1	2374.2	2388.3	2412.6	2436.9	2456.1	2435.9	2395.4	2366.1	2344.9	2350.9
22.5°	2391.4	2396.4	2414.6	2449.0	2485.4	2513.7	2488.5	2433.9	2395.4	2368.1	2373.2
25°	2434.9	2440.9	2464.2	2505.6	2557.2	2591.6	2556.2	2494.5	2440.9	2407.6	2412.6
27.5°	2511.7	2514.7	2545.1	2599.7	2663.4	2702.8	2660.3	2587.5	2527.9	2489.5	2493.5
30°	2612.8	2621.9	2652.3	2724.1	2799.9	2852.5	2796.9	2710.9	2642.1	2595.6	2599.7
32.5°	2736.2	2742.3	2787.8	2862.6	2971.8	3032.5	2956.6	2854.5	2771.6	2715.0	2719.0
35°	2898.0	2903.0	2946.5	3041.6	3174.0	3230.6	3143.7	3026.4	2930.3	2876.7	2891.9
37.5°	3091.1	3100.2	3131.5	3225.6	3373.2	3428.8	3328.7	3219.5	3119.4	3069.9	3081.0
40°	3298.4	3297.4	3322.7	3405.6	3540.1	3574.4	3484.4	3397.5	3311.5	3279.2	3297.4
42.5°	3476.4	3471.3	3489.5	3558.3	3651.3	3654.3	3594.7	3546.1	3485.5	3463.2	3480.4
45°	3600.7	3602.7	3630.0	3677.6	3725.1	3699.8	3681.6	3673.5	3626.0	3595.7	3598.7
47.5°	3698.8	3706.9	3750.4	3782.7	3788.8	3746.3	3771.6	3783.7	3744.3	3697.8	3684.6
50°	3785.8	3798.9	3855.5	3889.9	3876.8	3823.2	3872.7	3890.9	3804.0	3715.0	3688.7
52.5°	3943.5	3958.7	4027.4	4071.9	4056.8	4003.2	4049.7	3985.0	3838.3	3729.1	3695.8
55°	4195.3	4202.4	4286.3	4359.1	4352.0	4286.3	4248.9	4105.3	3927.3	3814.1	3782.7
57.5°	4141.7	4153.8	4299.4	4493.6	4602.8	4543.1	4323.7	4079.0	3837.3	3700.8	3658.4
60°	3259.0	3288.3	3469.3	3811.0	4211.5	4210.4	3803.0	3422.8	3131.5	2950.6	2932.3
62.5°	1903.0	1923.2	2088.0	2433.9	2792.8	2815.1	2528.9	2268.0	2013.2	1890.9	1832.2
65°	900.9	899.9	965.7	1121.4	1364.0	1383.3	1297.3	1154.7	1004.1	962.6	951.5
67.5°	665.3	665.3	660.3	671.4	717.9	728.0	717.9	694.7	680.5	689.6	683.5
70°	577.4	578.4	572.3	569.3	569.3	566.2	570.3	579.4	585.5	597.6	591.5
72.5°	468.2	469.2	469.2	470.2	471.2	467.2	473.2	478.3	479.3	483.3	479.3
75°	332.7	334.7	340.8	345.8	349.9	349.9	351.9	352.9	348.8	353.9	345.8
77.5°	183.0	185.0	196.2	205.3	214.4	215.4	218.4	220.4	218.4	222.5	216.4
80°	101.1	103.1	108.2	112.2	119.3	125.4	129.4	131.5	131.5	134.5	131.5
82.5°	57.6	59.7	62.7	64.7	70.8	75.8	79.9	82.9	82.9	83.9	81.9
85°	27.3	27.3	29.3	31.3	34.4	36.4	41.5	44.5	44.5	46.5	44.5
87.5°	4.0	5.1	6.1	6.1	8.1	10.1	12.1	13.1	15.2	16.2	16.2
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)