

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: P641429

Luminaire Tested: GWS-SA5F-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-830-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17448.8 lumens  
Efficiency: N/A  
Efficacy: 56.2 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): 310.3  
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

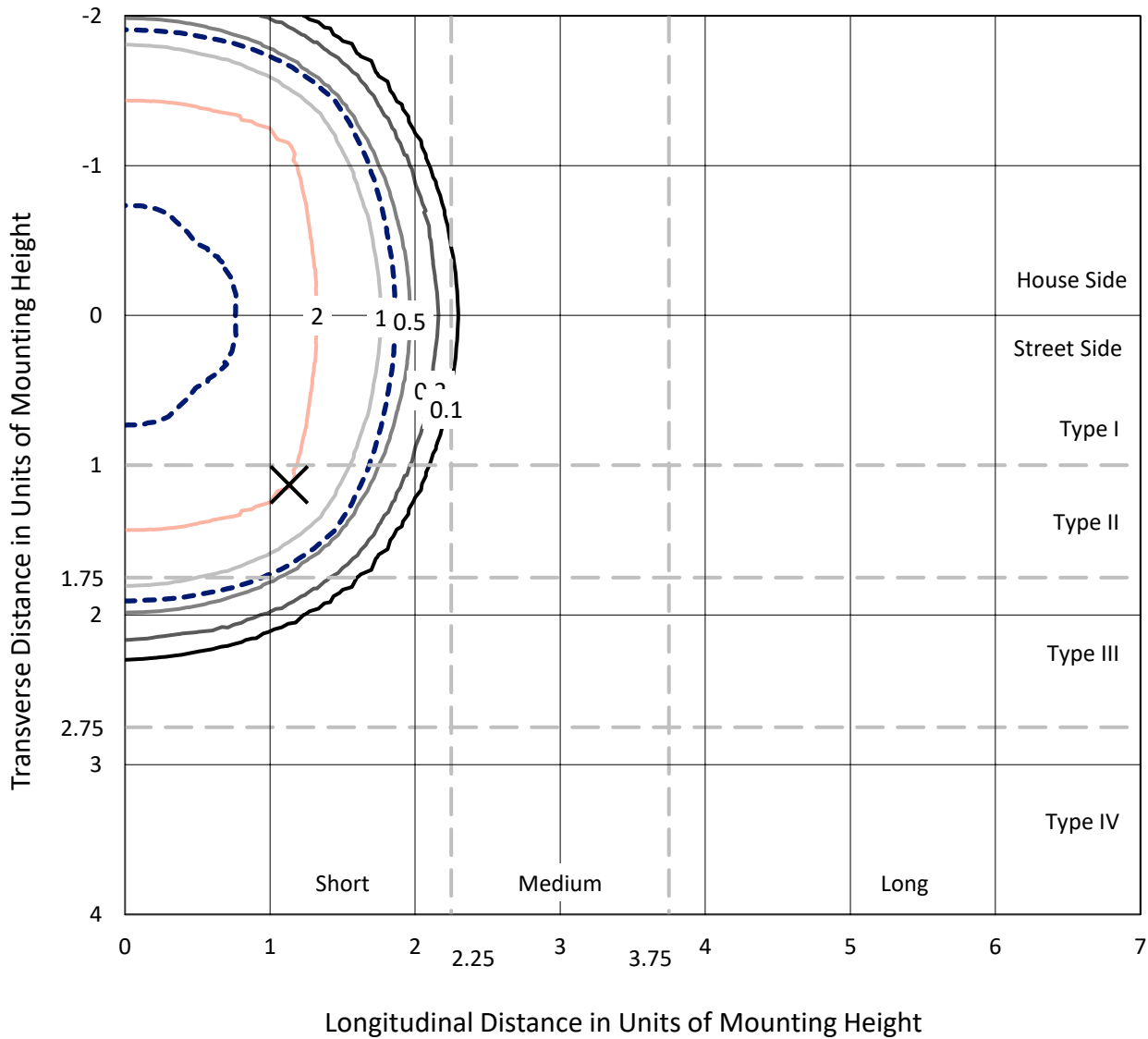


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### Iso-Footcandle Lines of Horizontal Illumination

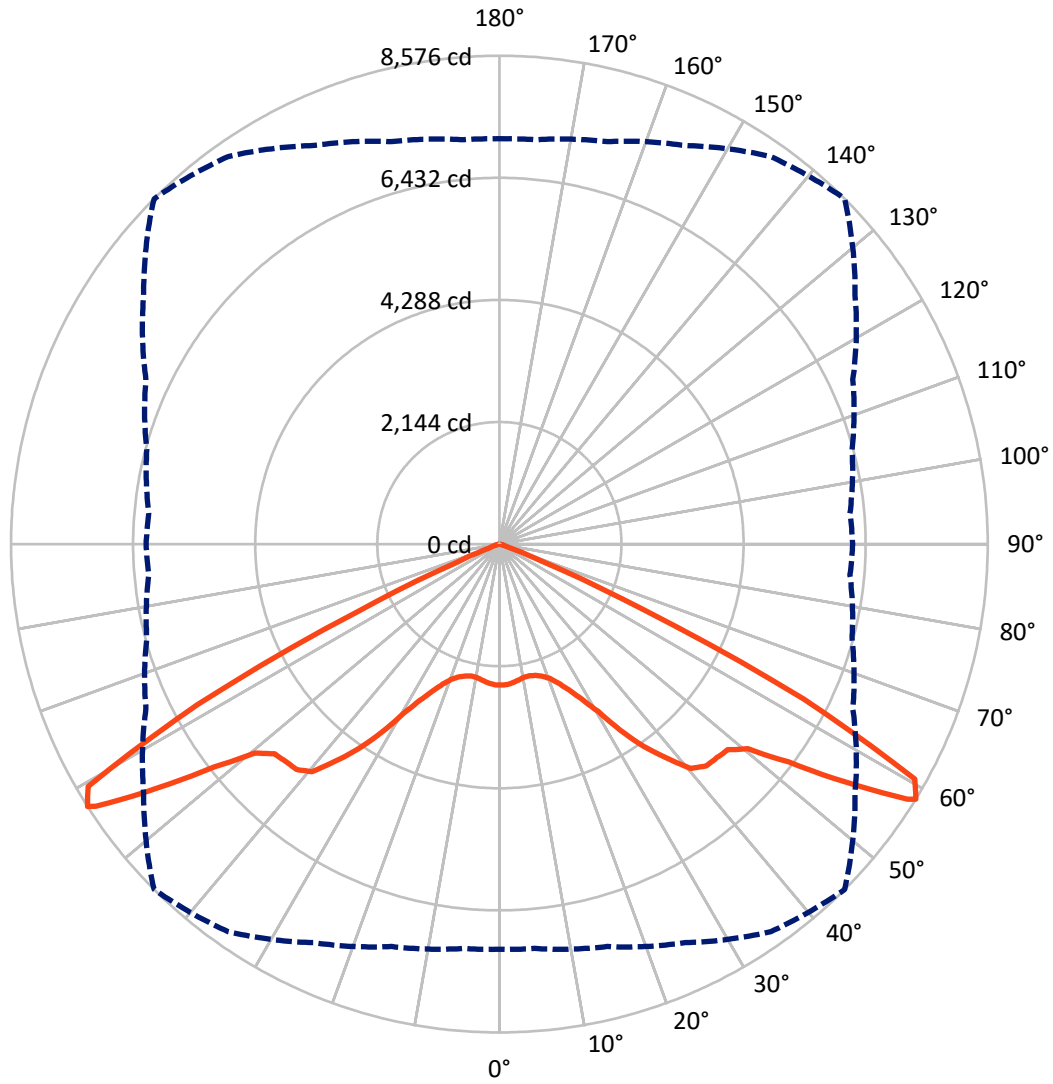
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8724.4	0.0	8724.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8724.4	0.0	8724.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17448.8	0.0	17448.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.9	1.3
10°-20°	683.1	3.9
20°-30°	1292.0	7.4
30°-40°	2548.1	14.6
40°-50°	4032.3	23.1
50°-60°	5927.3	34.0
60°-70°	2645.7	15.2
70°-80°	88.6	0.5
80°-90°	0.7	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°	17448.8	100.0
0°-180°	17448.8	100.0

**Coefficient of Utilization**



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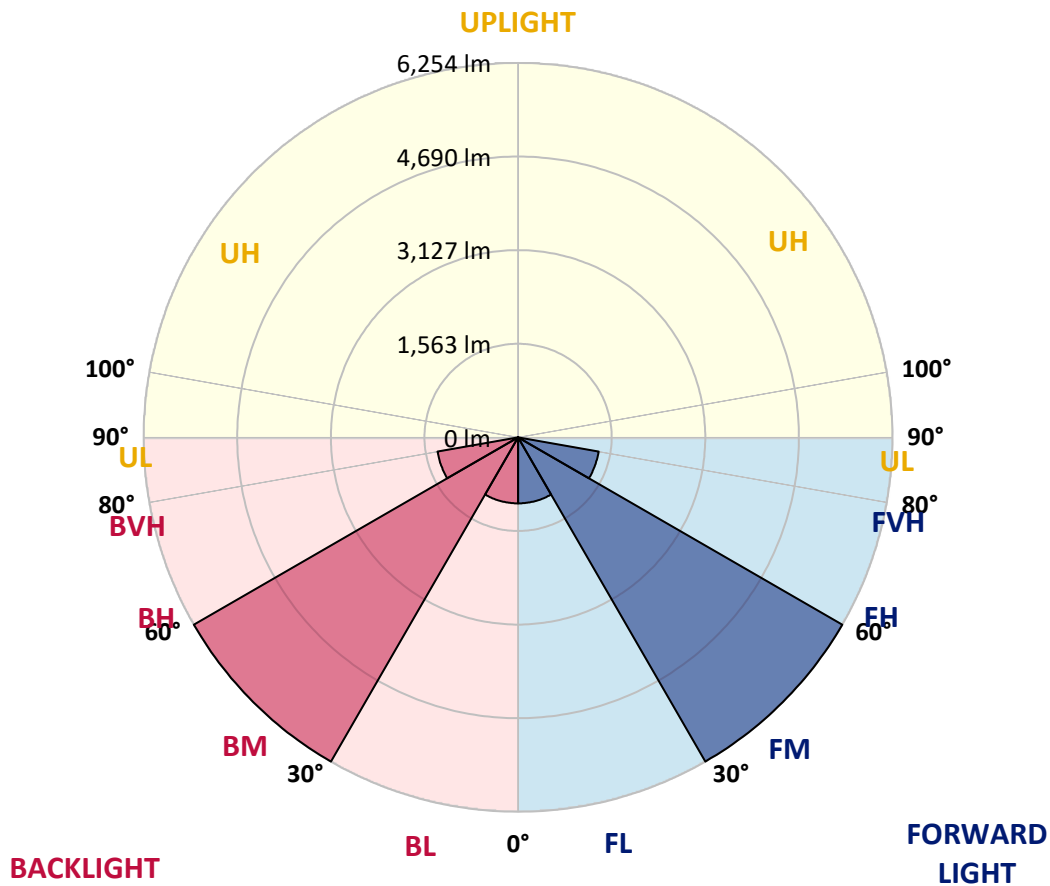
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.0	6.3			
FM (30°-60°)	6253.9	35.8			
FH (60°-80°)	1367.2	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1103.0	6.3	B3/2500		
BM (30°-60°)	6253.9	35.8	B4/8500		
BH (60°-80°)	1367.2	7.8	B3/2500		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°	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5	2474.5
2.5°	2450.7	2455.5	2460.2	2462.6	2465.0	2472.1	2474.5	2467.3	2467.3	2453.1	2469.7
5°	2438.8	2443.6	2448.3	2445.9	2445.9	2445.9	2443.6	2434.1	2431.7	2417.4	2434.1
7.5°	2417.4	2422.2	2422.2	2415.0	2410.3	2410.3	2407.9	2396.0	2393.7	2379.4	2396.0
10°	2400.8	2403.2	2400.8	2386.5	2377.0	2377.0	2374.6	2369.9	2372.3	2362.8	2377.0
12.5°	2410.3	2412.7	2403.2	2384.1	2372.3	2369.9	2362.8	2355.6	2362.8	2360.4	2374.6
15°	2441.2	2443.6	2426.9	2403.2	2393.7	2393.7	2374.6	2355.6	2365.1	2367.5	2384.1
17.5°	2479.2	2479.2	2457.8	2436.4	2438.8	2438.8	2407.9	2374.6	2377.0	2386.5	2403.2
20°	2524.4	2524.4	2503.0	2498.2	2514.9	2517.3	2479.2	2426.9	2415.0	2422.2	2441.2
22.5°	2605.2	2605.2	2588.6	2600.5	2638.5	2650.4	2593.3	2519.6	2491.1	2495.9	2514.9
25°	2731.2	2731.2	2726.4	2755.0	2809.6	2835.8	2759.7	2662.3	2614.7	2607.6	2629.0
27.5°	2942.7	2945.1	2938.0	2980.8	3049.7	3080.6	2976.0	2847.7	2790.6	2778.7	2800.1
30°	3216.1	3216.1	3218.5	3277.9	3368.2	3408.6	3270.8	3121.0	3054.5	3016.4	3045.0
32.5°	3520.4	3525.1	3548.9	3648.7	3808.0	3891.2	3689.1	3479.9	3373.0	3332.6	3363.5
35°	4021.9	3976.7	3948.2	4021.9	4252.5	4361.8	4102.7	3857.9	3777.1	3772.3	3850.8
37.5°	4518.7	4492.6	4433.1	4509.2	4716.0	4765.9	4480.7	4276.2	4219.2	4250.1	4328.5
40°	4913.3	4865.7	4787.3	4858.6	5129.6	5179.5	4827.7	4625.7	4604.3	4673.2	4780.2
42.5°	5224.7	5158.1	5053.5	5070.2	5288.9	5324.5	5013.1	4861.0	4875.3	4960.8	5082.1
45°	5364.9	5312.6	5219.9	5212.8	5350.7	5353.0	5108.2	5029.8	5067.8	5134.4	5229.4
47.5°	5424.3	5400.6	5348.3	5336.4	5414.8	5395.8	5243.7	5210.4	5246.1	5265.1	5319.8
50°	5571.7	5571.7	5578.9	5588.4	5669.2	5650.2	5543.2	5505.2	5460.0	5393.4	5410.1
52.5°	5985.3	6002.0	6070.9	6147.0	6294.3	6356.1	6182.6	5961.6	5745.2	5600.2	5600.2
55°	6731.7	6748.3	6829.2	6957.5	7228.5	7375.9	6971.8	6484.5	6187.4	5990.1	6016.2
57.5°	7142.9	7161.9	7328.3	7675.4	8200.7	8450.3	7582.7	6860.1	6444.1	6218.3	6237.3
58°	7116.8	7128.7	7316.5	7722.9	8307.7	8576.3	7625.5	6848.2	6410.8	6180.2	6204.0
60°	6322.9	6306.2	6605.7	7185.7	8010.5	8381.4	7200.0	6251.5	5742.9	5507.5	5519.4
62.5°	4133.6	4143.1	4402.2	5008.4	5650.2	5999.6	5029.8	4323.8	3914.9	3772.3	3736.7
65°	1725.7	1694.8	1854.1	2191.6	2576.7	2771.6	2381.8	2015.7	1763.7	1668.7	1694.8
67.5°	444.5	432.6	442.1	553.8	677.4	801.1	672.7	513.4	446.9	451.6	451.6
70°	252.0	237.7	192.5	178.3	173.5	173.5	173.5	173.5	199.7	235.3	242.5
72.5°	190.2	178.3	140.2	121.2	107.0	99.8	104.6	121.2	145.0	175.9	180.7
75°	95.1	95.1	85.6	80.8	71.3	66.6	68.9	76.1	87.9	99.8	97.5
77.5°	19.0	21.4	23.8	28.5	23.8	23.8	23.8	28.5	28.5	30.9	28.5
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)