

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: P641431

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
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  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

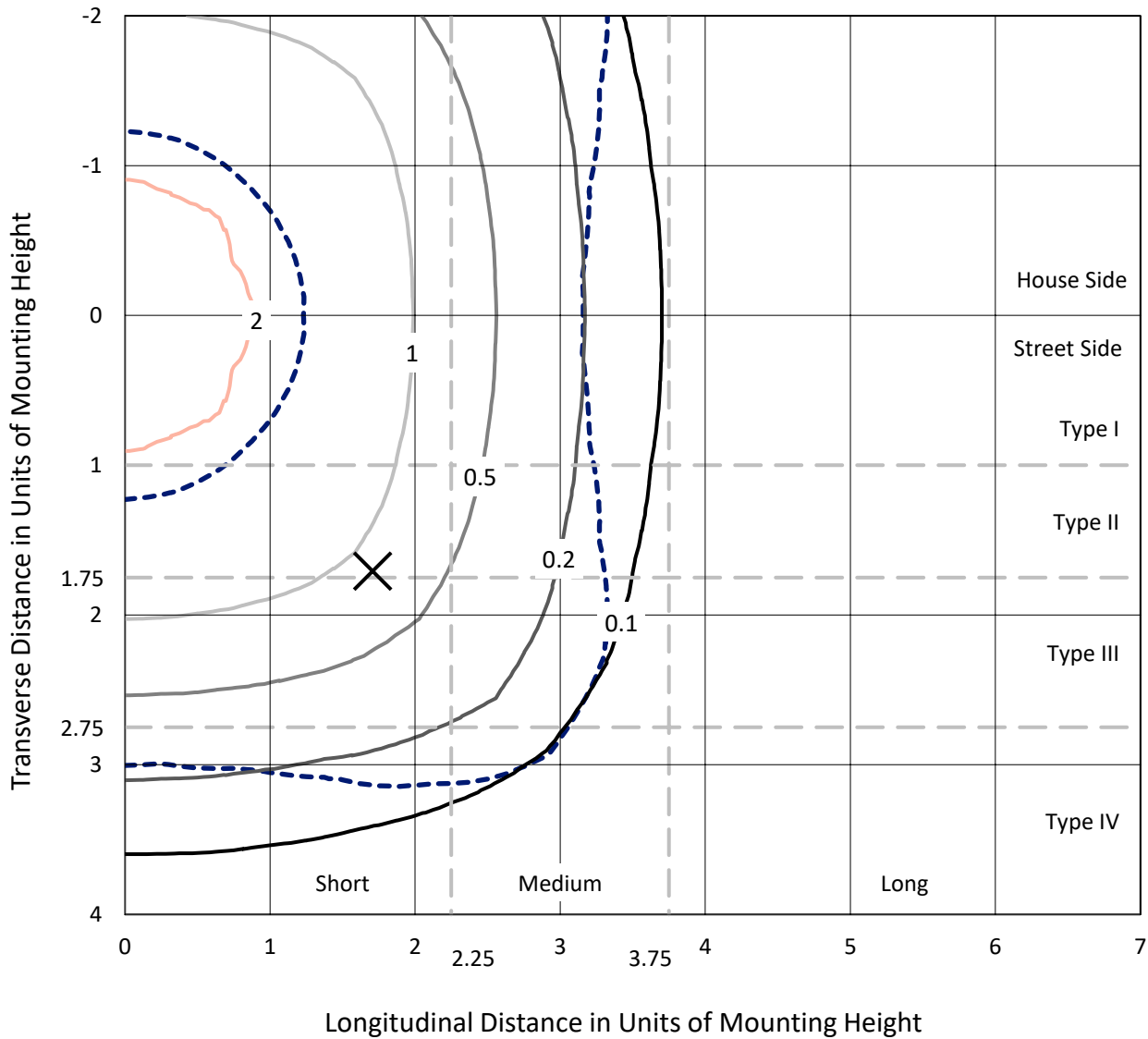
Lumens per Lamp: N/A  
Luminaire Lumens: 33614 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

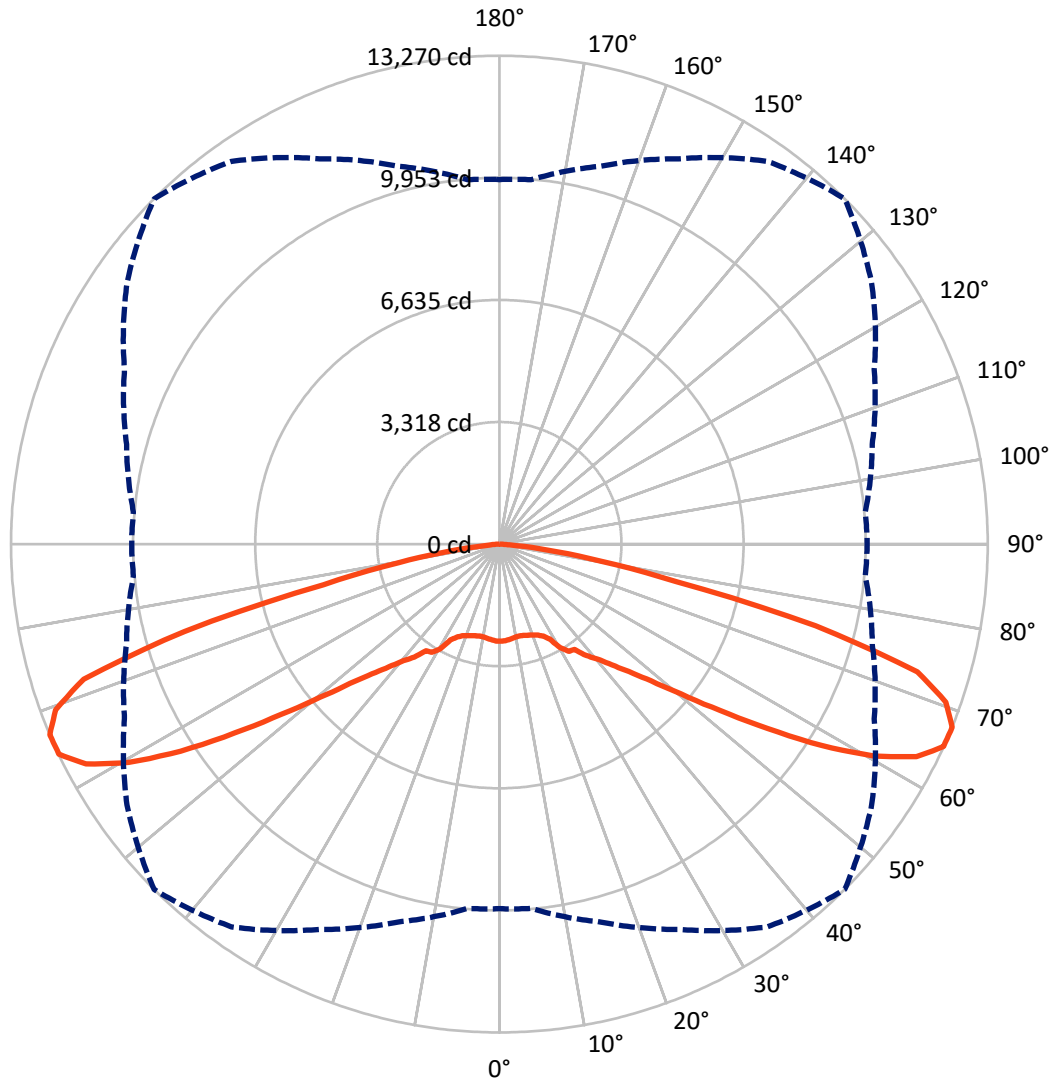
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 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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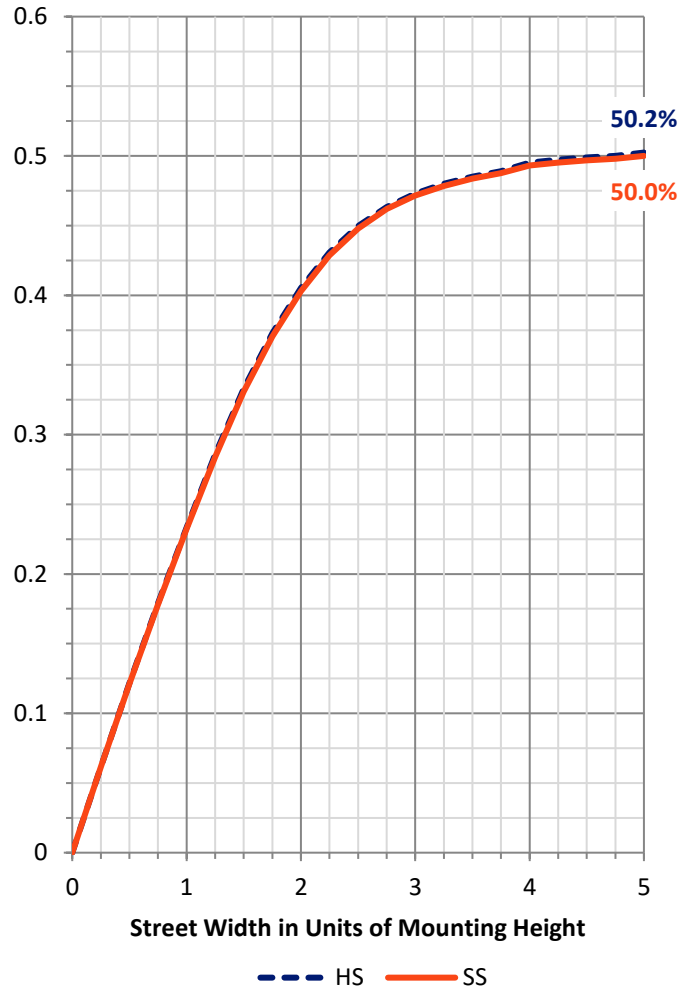
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16807.0	0.0	16807.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16807.0	0.0	16807.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33614.0	0.0	33614.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.5	0.7
10°-20°	734.5	2.2
20°-30°	1317.6	3.9
30°-40°	2225.7	6.6
40°-50°	3910.6	11.6
50°-60°	7543.7	22.4
60°-70°	10944.9	32.6
70°-80°	6262.2	18.6
80°-90°	427.4	1.3
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°	33614.0	100.0
0°-180°	33614.0	100.0

**Coefficient of Utilization**



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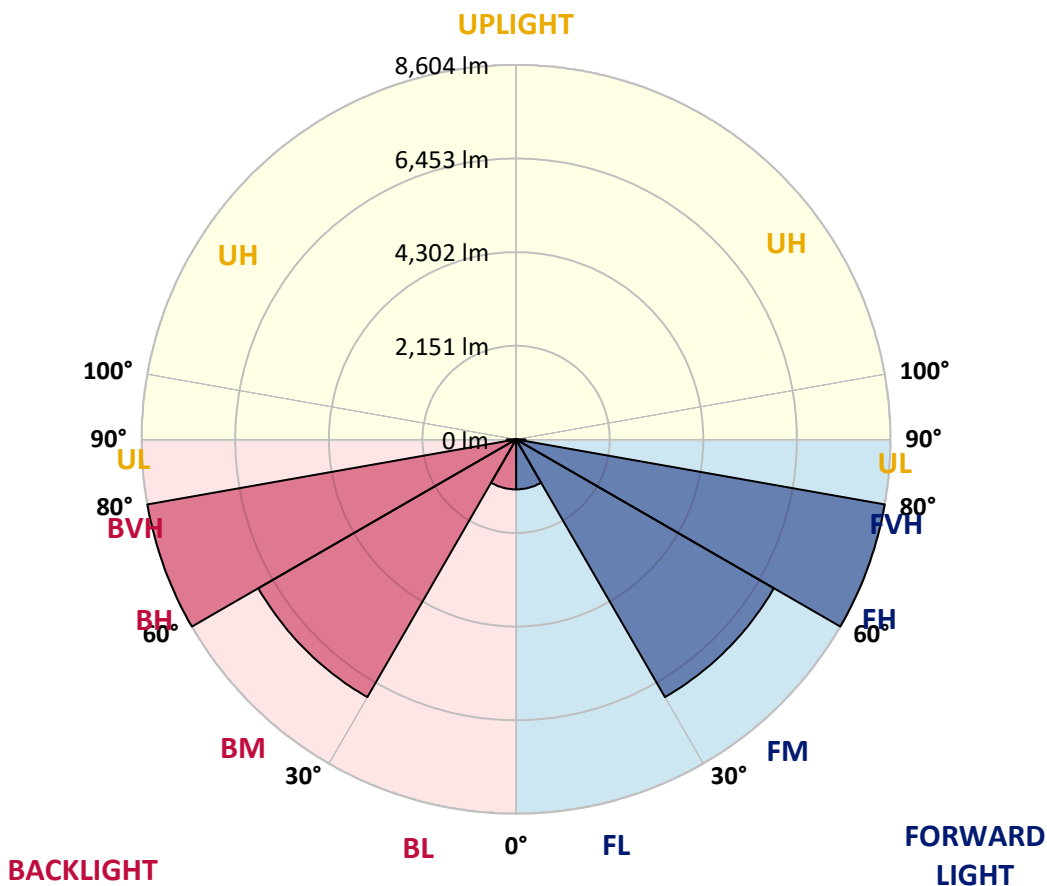
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.8	3.4			
FM (30°-60°)	6840.0	20.3			
FH (60°-80°)	8603.5	25.6			G4/12000
FVH (80°-90°)	213.7	0.6			G2/225
BL (0°-30°)	1149.8	3.4	B3/2500		
BM (30°-60°)	6840.0	20.3	B4/8500		
BH (60°-80°)	8603.5	25.6	B5		G4/12000
BVH (80°-90°)	213.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2614.6	2617.0	2621.8	2621.8	2626.5	2633.6	2636.0	2631.3	2633.6	2621.8	2633.6
5°	2607.5	2609.9	2612.3	2607.5	2607.5	2609.9	2609.9	2605.1	2607.5	2595.6	2607.5
7.5°	2590.9	2593.2	2593.2	2586.1	2579.0	2583.7	2583.7	2579.0	2581.4	2569.5	2583.7
10°	2576.6	2576.6	2574.2	2560.0	2552.8	2560.0	2562.3	2564.7	2574.2	2564.7	2581.4
12.5°	2586.1	2586.1	2579.0	2560.0	2548.1	2552.8	2557.6	2562.3	2579.0	2576.6	2595.6
15°	2612.3	2614.6	2595.6	2574.2	2567.1	2574.2	2569.5	2567.1	2588.5	2595.6	2617.0
17.5°	2633.6	2633.6	2609.9	2588.5	2590.9	2602.7	2593.2	2581.4	2602.7	2617.0	2640.8
20°	2652.7	2650.3	2624.1	2609.9	2619.4	2636.0	2628.9	2612.3	2626.5	2643.2	2664.5
22.5°	2700.2	2697.8	2669.3	2662.2	2671.7	2688.3	2681.2	2666.9	2683.6	2707.3	2733.5
25°	2835.7	2830.9	2788.1	2764.4	2759.6	2771.5	2769.1	2764.4	2790.5	2819.0	2849.9
27.5°	3016.3	3014.0	2983.1	2959.3	2928.4	2918.9	2926.0	2947.4	2985.4	3006.8	3033.0
30°	3106.7	3106.7	3101.9	3139.9	3206.5	3270.7	3220.8	3139.9	3106.7	3097.1	3123.3
32.5°	3225.5	3237.4	3220.8	3263.5	3375.3	3470.3	3375.3	3244.5	3220.8	3220.8	3249.3
35°	3498.9	3503.6	3477.5	3470.3	3506.0	3517.9	3472.7	3425.2	3451.3	3456.1	3491.7
37.5°	3717.5	3717.5	3705.6	3724.7	3798.3	3843.5	3769.8	3684.3	3691.4	3696.1	3741.3
40°	4055.1	4064.6	4036.0	4033.7	4062.2	4102.6	4024.2	3969.5	4007.5	4019.4	4088.3
42.5°	4475.8	4475.8	4433.0	4421.1	4440.1	4482.9	4409.2	4373.6	4423.5	4433.0	4473.4
45°	4977.3	4989.2	4932.1	4910.8	4920.3	4934.5	4882.2	4865.6	4913.1	4934.5	5005.8
47.5°	5588.2	5600.1	5550.1	5547.8	5538.3	5547.8	5497.9	5488.3	5526.4	5509.7	5585.8
50°	6341.7	6363.1	6320.3	6379.7	6372.6	6401.1	6332.2	6282.2	6282.2	6237.1	6279.9
52.5°	7185.5	7228.3	7249.7	7349.5	7425.6	7496.9	7382.8	7304.3	7190.2	7097.5	7214.0
55°	8105.4	8093.5	8229.0	8447.6	8671.1	8839.8	8616.4	8369.2	8183.8	7991.3	8036.4
57.5°	8911.1	8951.5	9129.8	9529.1	9971.3	10327.8	9926.1	9450.7	9030.0	8754.3	8792.3
60°	9581.4	9614.7	9852.4	10427.6	11200.1	11692.2	11055.1	10270.7	9659.9	9279.6	9320.0
62.5°	10199.4	10230.3	10470.4	11105.1	12079.6	12721.4	11898.9	10827.0	10147.1	9764.5	9788.2
65°	10556.0	10575.0	10903.0	11570.9	12597.8	13260.9	12333.9	11228.7	10560.7	10170.9	10185.2
67.5°	9907.1	9938.0	10629.7	11551.9	12697.6	13270.4	12352.9	11240.5	10489.4	9980.8	9992.6
70°	7815.4	7789.2	8614.0	10199.4	12124.8	12871.1	11803.9	10396.7	9236.8	8526.1	8514.2
72.5°	5959.0	5966.1	6424.9	7511.1	9885.7	11877.6	10415.7	8371.6	7121.3	6581.7	6560.3
75°	4321.3	4387.8	4761.0	5557.3	6914.5	8877.9	7841.5	6203.8	5367.1	5043.9	4996.3
77.5°	1946.7	2032.3	2552.8	3489.3	4623.1	4906.0	4925.0	4211.9	3178.0	2640.8	2557.6
80°	568.1	608.5	782.0	1338.2	2153.5	2783.4	2210.6	1858.8	1157.6	908.0	865.2
82.5°	240.1	273.3	335.1	370.8	625.1	1290.7	803.4	511.0	475.4	385.1	351.8
85°	102.2	109.3	140.2	149.7	202.0	275.7	254.3	230.6	221.1	171.1	156.9
87.5°	42.8	42.8	42.8	38.0	35.7	38.0	52.3	66.6	87.9	68.9	64.2
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)