

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: P638950

Luminaire Tested: GWS-SA4F-830-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638950  
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-SA4F-830-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

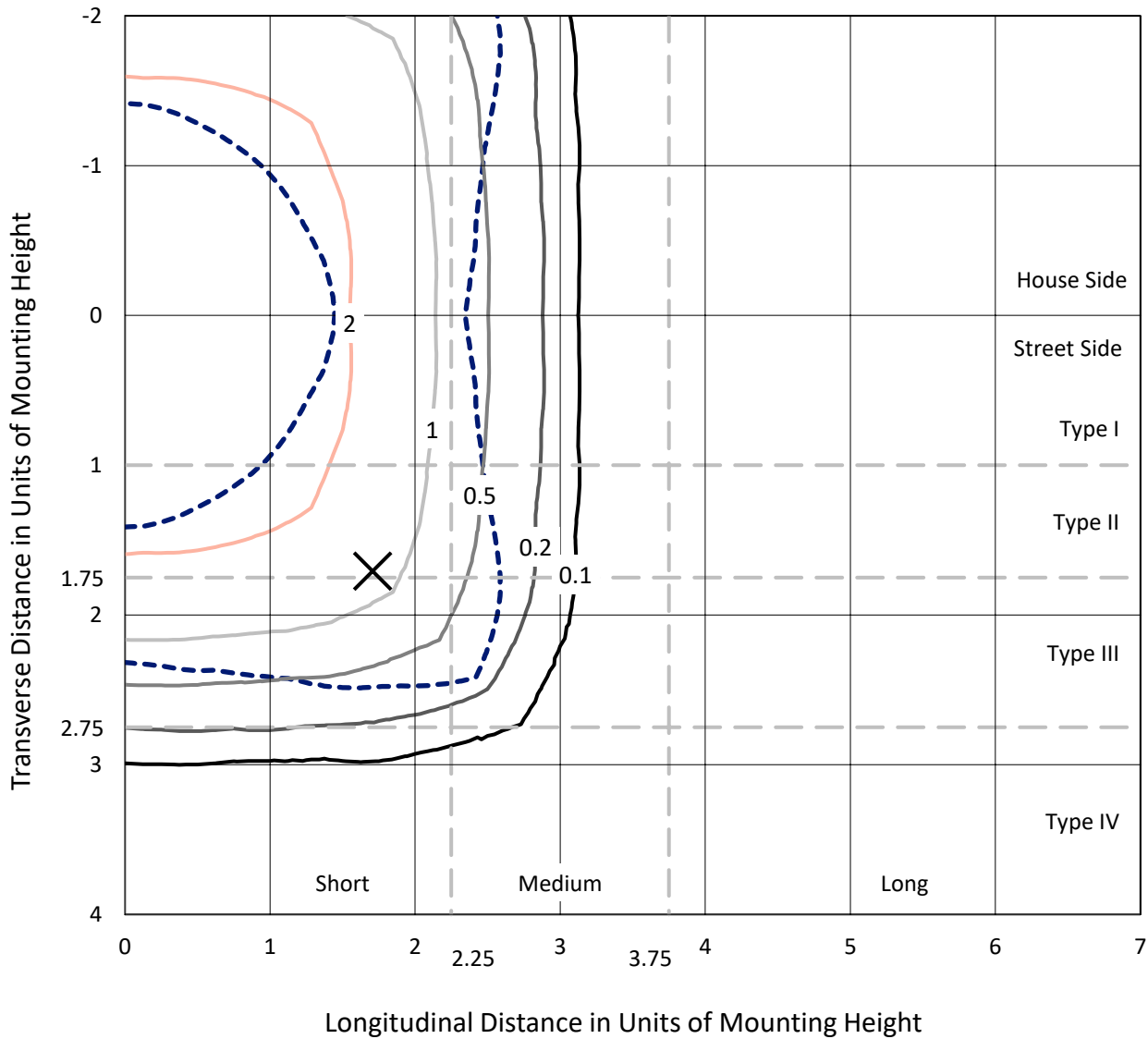
Lumens per Lamp: N/A  
Luminaire Lumens: 27990.7 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

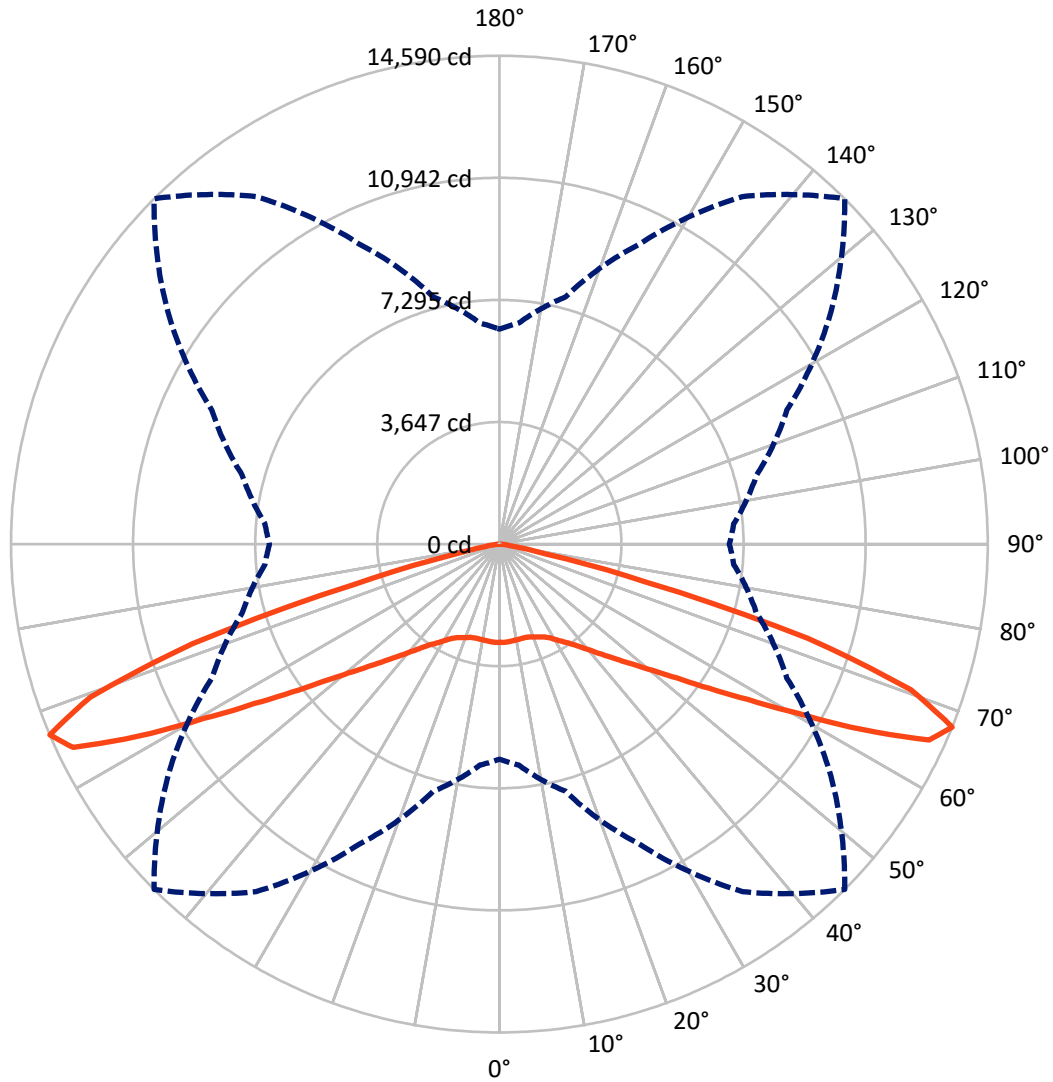
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	13995.4	0.0	13995.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13995.4	0.0	13995.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27990.7	0.0	27990.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.5	1.0
10°-20°	814.9	2.9
20°-30°	1405.5	5.0
30°-40°	2285.4	8.2
40°-50°	3848.2	13.7
50°-60°	6818.2	24.4
60°-70°	9746.2	34.8
70°-80°	2674.9	9.6
80°-90°	119.8	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°	27990.7	100.0
0°-180°	27990.7	100.0

**Coefficient of Utilization**



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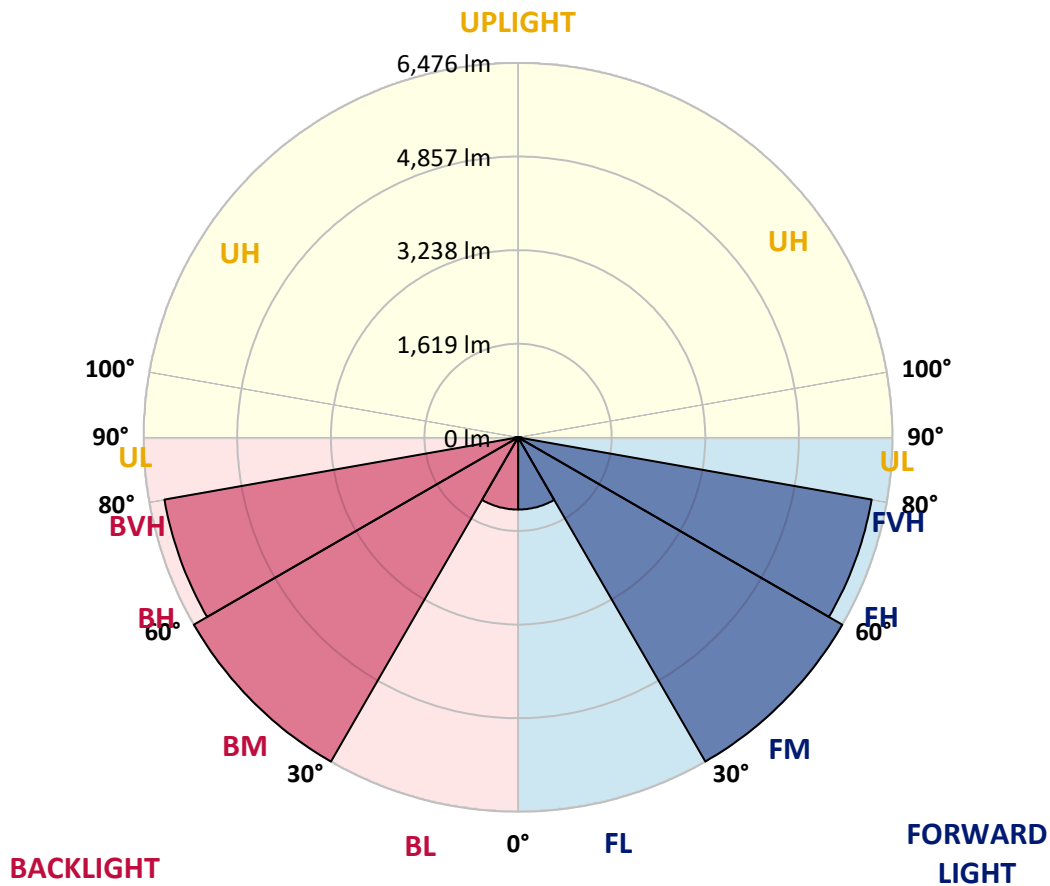
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.9	4.5			
FM (30°-60°)	6475.9	23.1			
FH (60°-80°)	6210.6	22.2			G3/7500
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	1248.9	4.5	B3/2500		
BM (30°-60°)	6475.9	23.1	B4/8500		
BH (60°-80°)	6210.6	22.2	B5		G3/7500
BVH (80°-90°)	59.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
2.5°	2912.2	2910.2	2919.9	2925.7	2923.8	2937.3	2935.4	2931.5	2931.5	2925.7	2941.2
5°	2912.2	2910.2	2918.0	2919.9	2916.0	2927.7	2923.8	2919.9	2919.9	2912.2	2925.7
7.5°	2896.7	2898.6	2904.4	2908.3	2904.4	2914.1	2908.3	2900.5	2898.6	2890.8	2904.4
10°	2867.6	2869.5	2875.3	2885.0	2887.0	2904.4	2894.7	2881.2	2875.3	2867.6	2881.2
12.5°	2850.2	2852.1	2857.9	2869.5	2873.4	2896.7	2887.0	2865.7	2856.0	2848.2	2861.8
15°	2846.3	2848.2	2856.0	2867.6	2873.4	2896.7	2887.0	2861.8	2848.2	2838.5	2850.2
17.5°	2846.3	2850.2	2861.8	2879.2	2890.8	2914.1	2902.5	2873.4	2854.0	2836.6	2848.2
20°	2848.2	2854.0	2871.5	2896.7	2925.7	2958.7	2943.2	2904.4	2877.3	2856.0	2863.7
22.5°	2865.7	2875.3	2896.7	2929.6	2972.2	3011.0	2997.4	2945.1	2906.3	2877.3	2885.0
25°	2925.7	2929.6	2956.7	2999.3	3040.0	3073.0	3059.4	3011.0	2962.5	2927.7	2937.3
27.5°	3032.3	3042.0	3065.2	3109.8	3144.7	3162.1	3160.2	3127.2	3078.8	3047.8	3055.5
30°	3160.2	3169.9	3200.9	3251.2	3286.1	3305.5	3299.7	3274.5	3229.9	3187.3	3195.0
32.5°	3309.4	3313.2	3350.0	3406.2	3443.0	3472.1	3452.7	3425.6	3369.4	3319.0	3322.9
35°	3499.2	3505.1	3543.8	3596.1	3625.2	3648.4	3644.6	3617.4	3557.4	3503.1	3516.7
37.5°	3737.6	3741.4	3776.3	3842.2	3865.4	3882.9	3886.8	3873.2	3811.2	3741.4	3755.0
40°	4034.0	4035.9	4074.7	4132.8	4158.0	4169.6	4171.6	4173.5	4109.6	4057.3	4053.4
42.5°	4378.9	4388.6	4442.8	4499.0	4510.6	4504.8	4524.2	4543.6	4481.6	4409.9	4415.7
45°	4791.6	4797.4	4871.0	4933.0	4911.7	4892.3	4929.2	4967.9	4911.7	4818.7	4791.6
47.5°	5279.9	5291.5	5370.9	5432.9	5398.1	5363.2	5423.2	5463.9	5372.9	5274.0	5248.9
50°	5832.1	5839.8	5952.2	6029.7	5989.0	5925.1	6000.6	6043.3	5921.2	5799.1	5744.9
52.5°	6485.0	6469.5	6618.7	6754.3	6729.2	6645.8	6707.8	6715.6	6533.5	6361.0	6306.8
55°	7281.4	7265.9	7415.1	7564.2	7626.2	7604.9	7575.9	7529.4	7260.0	7076.0	7025.6
57.5°	8209.5	8161.0	8370.3	8571.8	8707.4	8746.2	8622.2	8513.7	8300.5	8073.8	8015.7
60°	9071.7	9069.7	9401.1	9749.8	10121.8	10276.8	9962.9	9668.4	9189.9	8777.2	8693.8
62.5°	9313.9	9354.6	9897.1	10761.2	11679.6	12228.0	11400.6	10426.0	9501.8	8879.9	8769.4
65°	8717.1	8817.8	9589.0	10953.0	12766.6	14107.4	12239.6	10443.5	9155.0	8380.0	8263.7
67.5°	6425.0	6626.5	7647.6	9883.5	12673.6	14589.8	12090.4	9476.6	7951.8	7029.5	6868.7
70°	3169.9	3361.7	4171.6	6502.5	10428.0	13041.7	10460.9	7141.9	5370.9	4483.5	4336.3
72.5°	1166.4	1243.9	1561.7	2782.3	5754.6	9633.6	7153.5	3989.4	2602.1	2071.3	1972.4
75°	571.6	585.1	633.6	933.9	2123.6	4533.9	3361.7	1530.7	957.2	833.2	806.0
77.5°	364.3	370.1	393.3	445.6	682.0	1428.0	1019.2	604.5	468.9	449.5	449.5
80°	203.4	209.3	240.3	277.1	319.7	490.2	366.2	362.3	308.1	269.3	263.5
82.5°	96.9	106.6	153.1	151.1	168.6	246.1	215.1	195.7	197.6	149.2	141.4
85°	44.6	44.6	60.1	71.7	75.6	83.3	98.8	112.4	110.4	75.6	81.4
87.5°	21.3	21.3	21.3	19.4	17.4	15.5	21.3	34.9	50.4	34.9	32.9
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)