

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: P637963

Luminaire Tested: GWS-SA4D-830-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637963  
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-SA4D-830-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

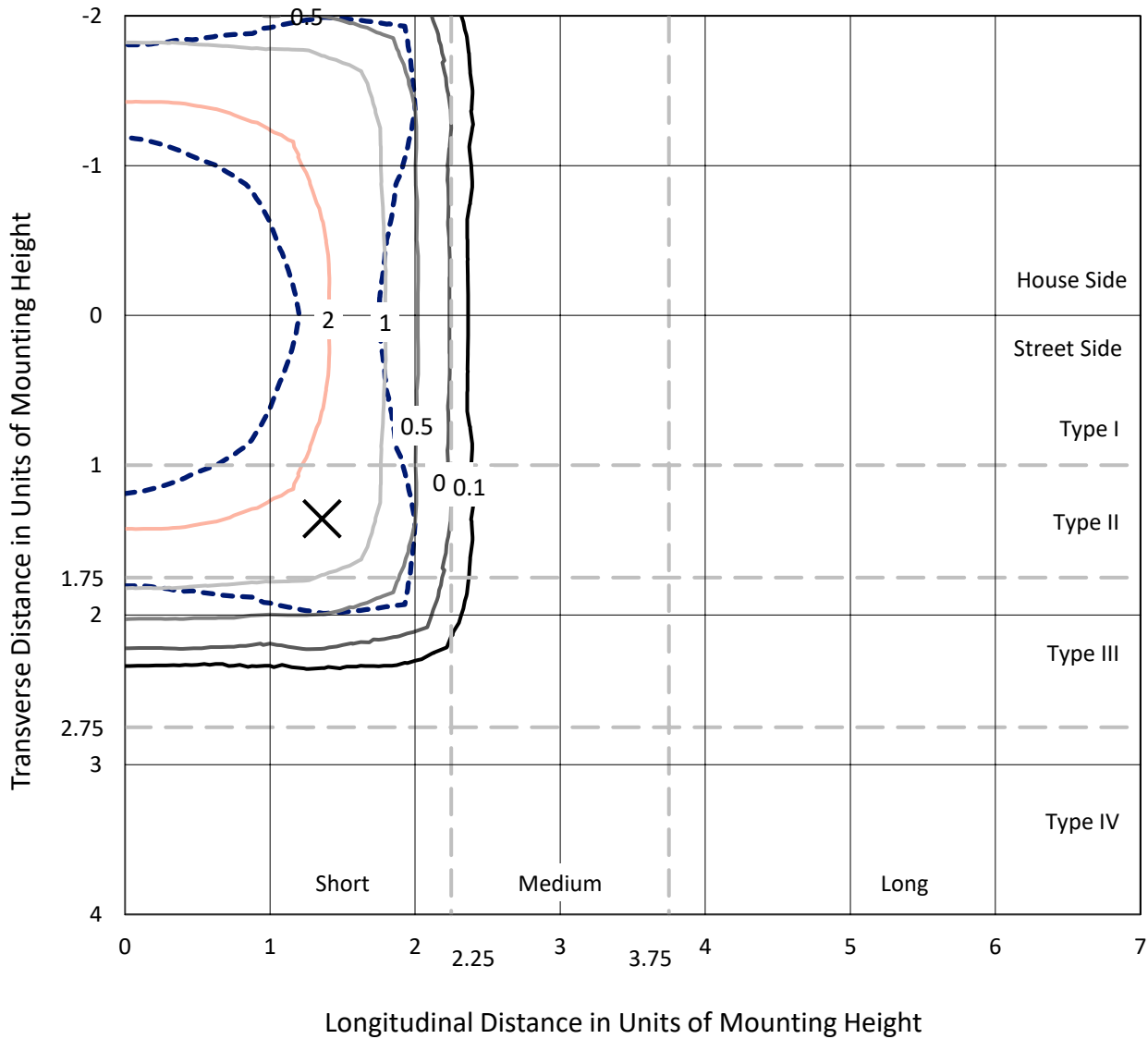
Lumens per Lamp: N/A  
Luminaire Lumens: 20333 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

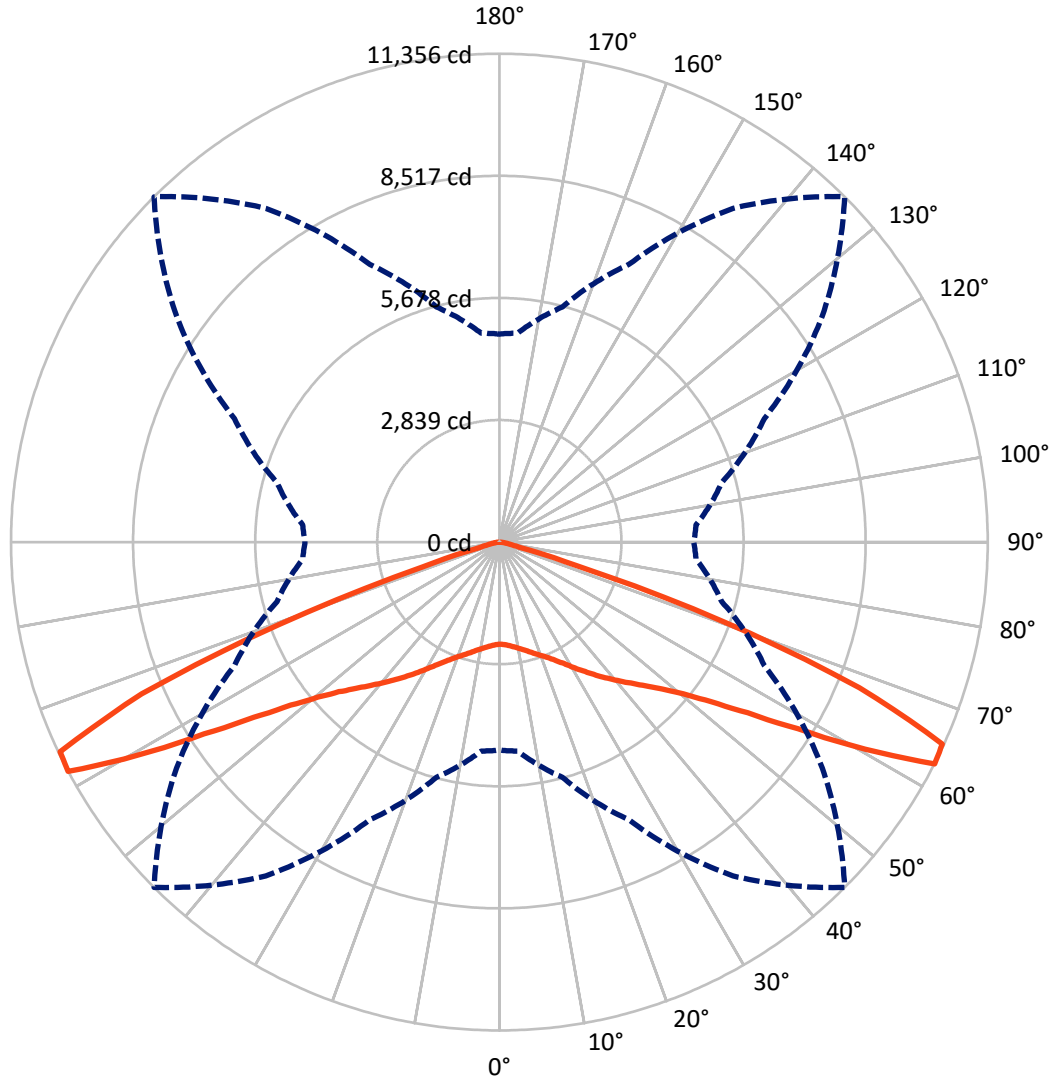
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10166.5	0.0	10166.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10166.5	0.0	10166.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20333.0	0.0	20333.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.7	1.1
10°-20°	750.5	3.7
20°-30°	1419.9	7.0
30°-40°	2390.0	11.8
40°-50°	3818.4	18.8
50°-60°	6155.1	30.3
60°-70°	5021.9	24.7
70°-80°	487.7	2.4
80°-90°	56.8	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°	20333.0	100.0
0°-180°	20333.0	100.0

**Coefficient of Utilization**



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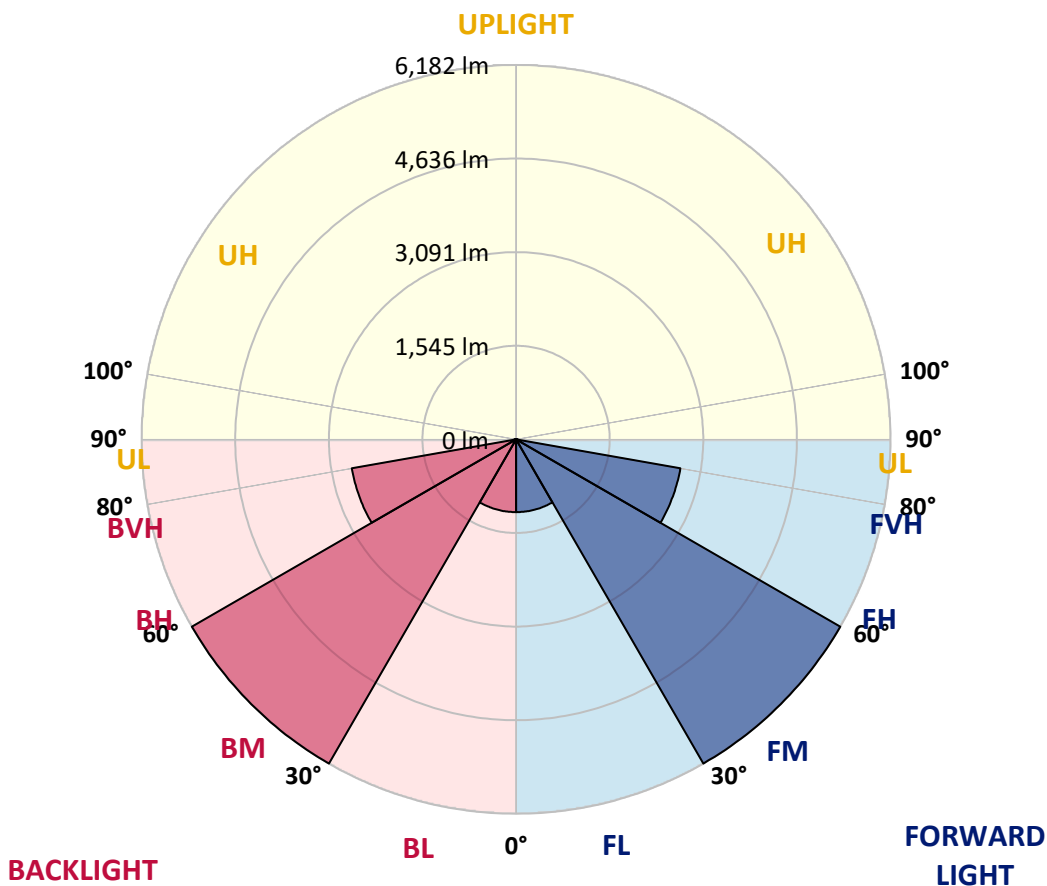
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.6	5.9			
FM (30°-60°)	6181.7	30.4			
FH (60°-80°)	2754.8	13.5			G2/5000
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	1201.6	5.9	B3/2500		
BM (30°-60°)	6181.7	30.4	B4/8500		
BH (60°-80°)	2754.8	13.5	B4/5000		G2/5000
BVH (80°-90°)	28.4	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°	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1	2372.1
2.5°	2369.3	2369.3	2374.9	2379.1	2376.3	2387.5	2386.1	2383.3	2381.9	2377.7	2390.2
5°	2401.4	2401.4	2405.6	2409.8	2402.8	2416.7	2411.2	2408.4	2407.0	2401.4	2412.6
7.5°	2437.7	2441.8	2443.2	2450.2	2446.0	2461.4	2457.2	2451.6	2448.8	2441.8	2451.6
10°	2478.1	2480.9	2482.3	2494.8	2496.2	2514.4	2510.2	2503.2	2497.6	2490.7	2504.6
12.5°	2532.5	2533.9	2538.1	2553.4	2557.6	2571.5	2570.1	2560.4	2553.4	2543.6	2559.0
15°	2602.2	2603.6	2610.6	2625.9	2632.9	2649.6	2644.1	2628.7	2619.0	2607.8	2620.3
17.5°	2674.7	2680.3	2687.3	2702.6	2712.4	2731.9	2724.9	2708.2	2699.8	2688.7	2697.0
20°	2768.2	2769.6	2773.7	2790.5	2797.5	2819.8	2821.2	2804.4	2800.2	2789.1	2801.6
22.5°	2871.4	2872.8	2876.9	2895.1	2907.6	2921.6	2929.9	2920.2	2913.2	2899.3	2914.6
25°	2985.7	2999.7	3003.8	3026.2	3040.1	3048.5	3058.2	3054.1	3044.3	3027.6	3034.5
27.5°	3146.1	3148.9	3155.9	3181.0	3189.3	3197.7	3207.5	3208.8	3194.9	3175.4	3185.1
30°	3328.8	3327.4	3342.7	3362.2	3369.2	3376.2	3390.1	3398.5	3380.4	3359.5	3369.2
32.5°	3515.6	3532.4	3551.9	3570.0	3565.8	3568.6	3590.9	3606.3	3581.2	3543.5	3551.9
35°	3726.2	3737.4	3762.5	3789.0	3783.4	3779.2	3793.2	3808.5	3773.6	3724.8	3737.4
37.5°	3942.4	3959.1	3996.8	4028.8	4020.5	4000.9	4016.3	4033.0	3999.6	3943.8	3938.2
40°	4183.6	4210.1	4264.5	4291.0	4268.7	4231.0	4257.5	4298.0	4264.5	4200.4	4185.0
42.5°	4466.7	4498.8	4553.2	4593.6	4544.8	4483.5	4528.1	4586.7	4578.3	4493.2	4466.7
45°	4816.8	4837.7	4904.6	4924.1	4851.6	4766.5	4847.4	4936.7	4915.8	4823.7	4788.9
47.5°	5197.5	5229.5	5288.1	5324.4	5207.2	5101.2	5214.2	5334.1	5311.8	5225.4	5184.9
50°	5682.8	5724.6	5801.3	5832.0	5670.2	5548.9	5693.9	5845.9	5802.7	5686.9	5634.0
52.5°	6211.3	6244.8	6375.9	6437.2	6285.2	6154.1	6281.0	6430.2	6338.2	6184.8	6113.7
55°	6677.1	6710.5	6903.0	7106.6	7099.6	7009.0	7073.1	7075.9	6826.3	6572.5	6497.2
57.5°	6777.5	6811.0	7177.7	7710.4	8087.0	8191.5	8003.3	7607.2	6978.3	6533.4	6448.4
60°	6242.0	6279.6	6862.5	7835.9	9074.3	9773.0	8905.6	7596.1	6508.3	5905.9	5825.0
62.5°	4836.3	4876.7	5660.5	7121.9	9473.1	11355.8	9167.7	6797.0	5353.7	4590.8	4519.7
65°	2309.4	2309.4	3305.1	5108.2	8678.2	11318.1	8409.1	5028.7	3222.8	2475.3	2414.0
67.5°	571.8	574.6	850.7	1988.6	5903.1	9032.5	5999.3	2414.0	1135.2	803.3	782.3
70°	357.0	355.6	394.7	538.3	2065.3	5482.0	2453.0	728.0	461.6	407.2	404.4
72.5°	277.5	277.5	297.0	344.5	541.1	1867.3	715.4	404.4	334.7	301.2	301.2
75°	218.9	218.9	232.9	258.0	319.4	481.1	380.7	299.8	259.4	237.1	234.3
77.5°	163.2	166.0	177.1	193.8	217.5	270.5	241.3	225.9	202.2	185.5	179.9
80°	106.0	110.2	124.1	133.9	142.2	178.5	157.6	164.6	153.4	133.9	131.1
82.5°	57.2	58.6	75.3	78.1	80.9	97.6	100.4	104.6	108.8	85.1	79.5
85°	20.9	20.9	25.1	29.3	32.1	34.9	47.4	58.6	61.4	48.8	47.4
87.5°	4.2	4.2	4.2	2.8	2.8	2.8	8.4	15.3	25.1	19.5	19.5
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)