

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: P638455

Luminaire Tested: GWS-SA4E-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638455
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-SA4E-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: 25175.6 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

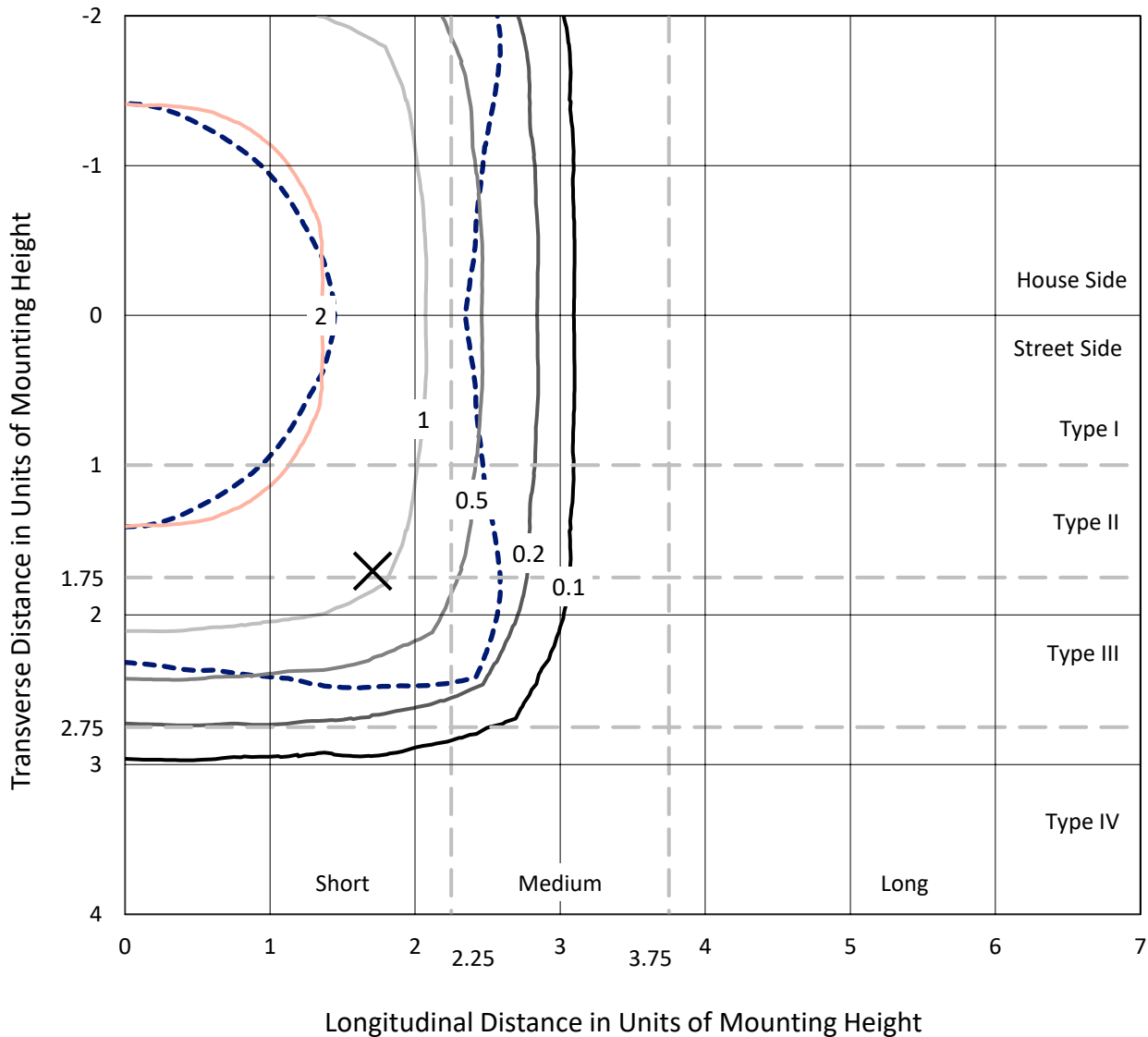
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

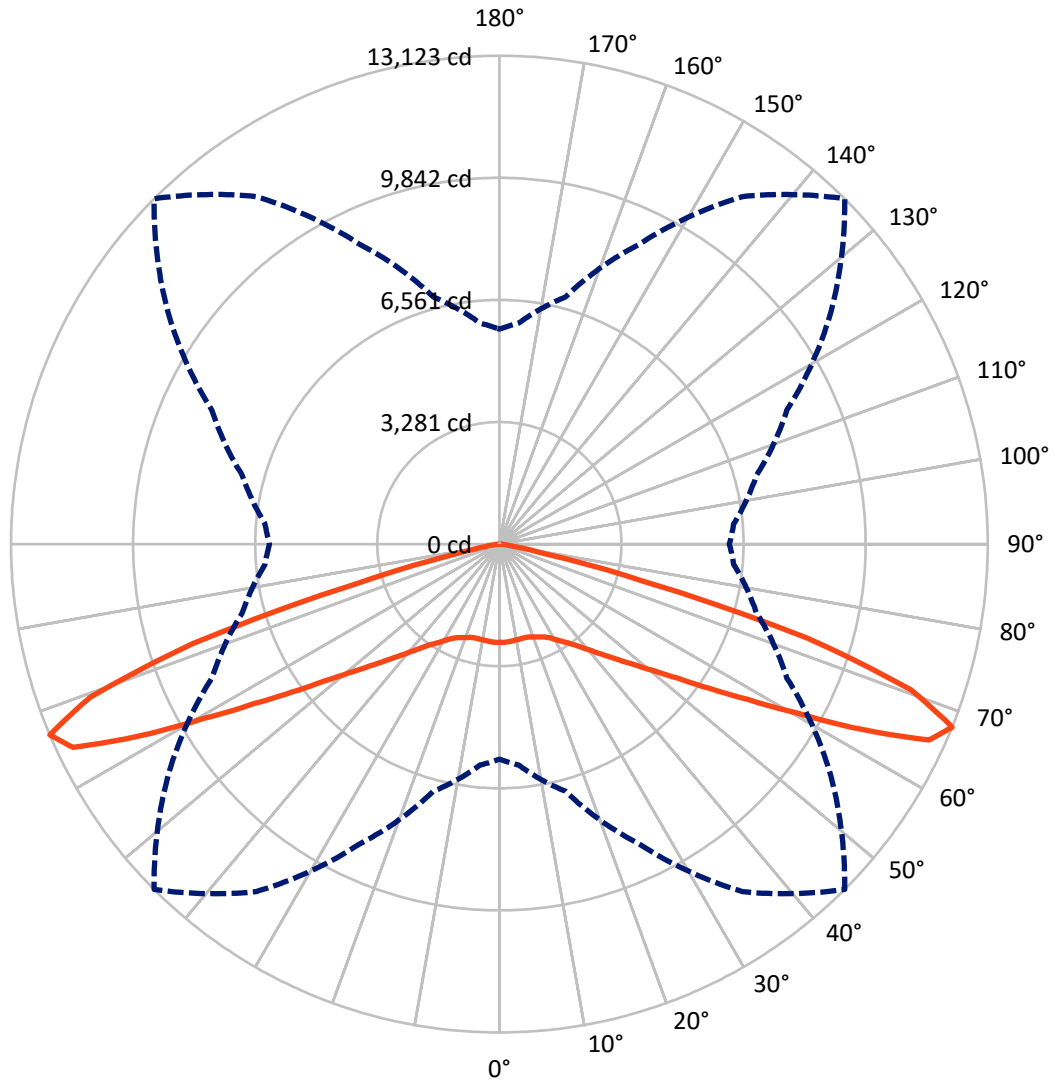
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	12587.8	0.0	12587.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12587.8	0.0	12587.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25175.6	0.0	25175.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.0
10°-20°	733.0	2.9
20°-30°	1264.2	5.0
30°-40°	2055.6	8.2
40°-50°	3461.2	13.7
50°-60°	6132.5	24.4
60°-70°	8766.0	34.8
70°-80°	2405.9	9.6
80°-90°	107.8	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°	25175.6	100.0
0°-180°	25175.6	100.0

Coefficient of Utilization



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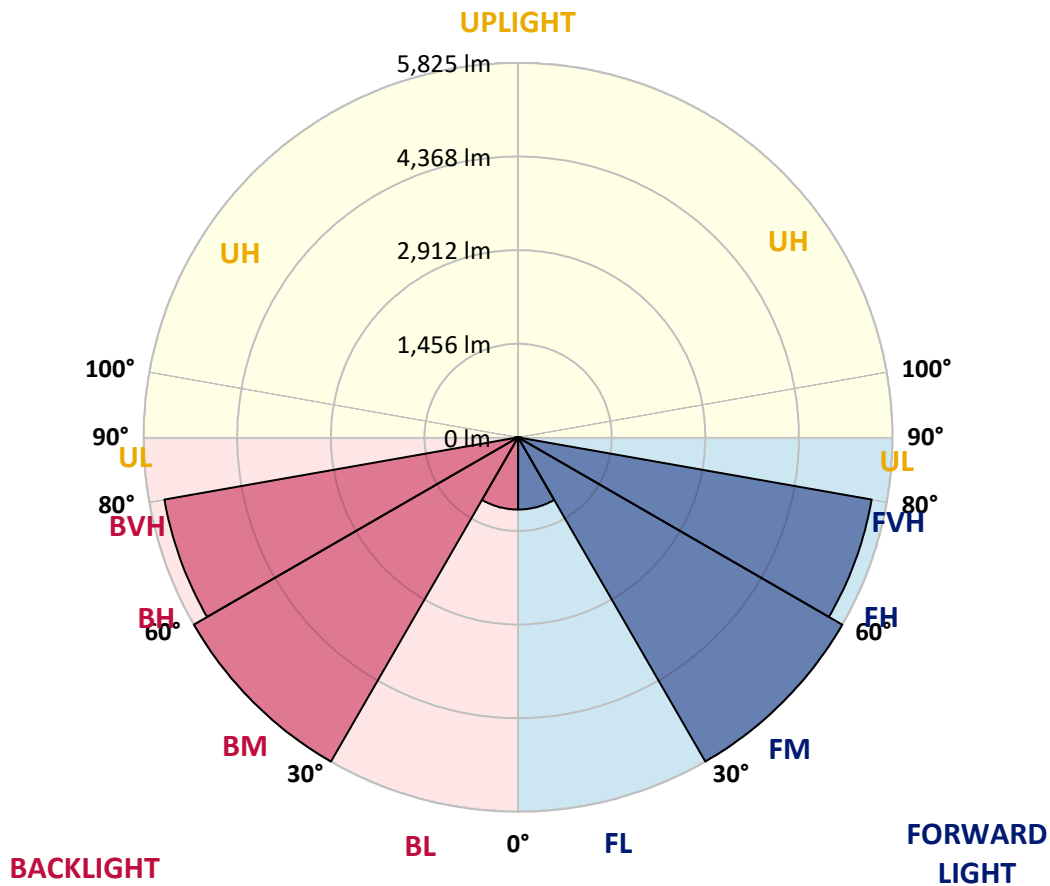
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.3	4.5			
FM (30°-60°)	5824.6	23.1			
FH (60°-80°)	5585.9	22.2			G3/7500
FVH (80°-90°)	53.9	0.2			G1/100
BL (0°-30°)	1123.3	4.5	B3/2500		
BM (30°-60°)	5824.6	23.1	B4/8500		
BH (60°-80°)	5585.9	22.2	B5		G3/7500
BVH (80°-90°)	53.9	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°	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7
2.5°	2619.3	2617.5	2626.2	2631.5	2629.7	2641.9	2640.2	2636.7	2636.7	2631.5	2645.4
5°	2619.3	2617.5	2624.5	2626.2	2622.8	2633.2	2629.7	2626.2	2626.2	2619.3	2631.5
7.5°	2605.3	2607.1	2612.3	2615.8	2612.3	2621.0	2615.8	2608.8	2607.1	2600.1	2612.3
10°	2579.2	2580.9	2586.2	2594.9	2596.6	2612.3	2603.6	2591.4	2586.2	2579.2	2591.4
12.5°	2563.5	2565.2	2570.5	2580.9	2584.4	2605.3	2596.6	2577.4	2568.7	2561.8	2574.0
15°	2560.0	2561.8	2568.7	2579.2	2584.4	2605.3	2596.6	2574.0	2561.8	2553.1	2563.5
17.5°	2560.0	2563.5	2574.0	2589.6	2600.1	2621.0	2610.6	2584.4	2567.0	2551.3	2561.8
20°	2561.8	2567.0	2582.7	2605.3	2631.5	2661.1	2647.2	2612.3	2587.9	2568.7	2575.7
22.5°	2577.4	2586.2	2605.3	2635.0	2673.3	2708.2	2696.0	2648.9	2614.0	2587.9	2594.9
25°	2631.5	2635.0	2659.4	2697.7	2734.3	2763.9	2751.7	2708.2	2664.6	2633.2	2641.9
27.5°	2727.3	2736.0	2756.9	2797.0	2828.4	2844.1	2842.3	2812.7	2769.1	2741.3	2748.2
30°	2842.3	2851.1	2878.9	2924.2	2955.6	2973.0	2967.8	2945.2	2905.1	2866.7	2873.7
32.5°	2976.5	2980.0	3013.1	3063.7	3096.8	3122.9	3105.5	3081.1	3030.6	2985.2	2988.7
35°	3147.3	3152.5	3187.4	3234.4	3260.6	3281.5	3278.0	3253.6	3199.6	3150.8	3163.0
37.5°	3361.7	3365.1	3396.5	3455.8	3476.7	3492.4	3495.9	3483.7	3427.9	3365.1	3377.3
40°	3628.3	3630.0	3664.9	3717.2	3739.8	3750.3	3752.0	3753.8	3696.3	3649.2	3645.7
42.5°	3938.5	3947.2	3996.0	4046.5	4057.0	4051.8	4069.2	4086.6	4030.9	3966.4	3971.6
45°	4309.7	4314.9	4381.1	4436.9	4417.7	4400.3	4433.4	4468.3	4417.7	4334.1	4309.7
47.5°	4748.8	4759.3	4830.8	4886.5	4855.2	4823.8	4877.8	4914.4	4832.5	4743.6	4721.0
50°	5245.5	5252.5	5353.6	5423.3	5386.7	5329.2	5397.1	5435.5	5325.7	5215.9	5167.1
52.5°	5832.8	5818.9	5953.1	6075.0	6052.4	5977.5	6033.2	6040.2	5876.4	5721.3	5672.5
55°	6549.1	6535.1	6669.3	6803.5	6859.3	6840.1	6813.9	6772.1	6529.9	6364.3	6319.0
57.5°	7383.8	7340.2	7528.5	7709.7	7831.7	7866.5	7755.0	7657.4	7465.7	7261.8	7209.5
60°	8159.3	8157.6	8455.6	8769.3	9103.8	9243.3	8960.9	8696.1	8265.6	7894.4	7819.5
62.5°	8377.1	8413.7	8901.7	9678.9	10505.0	10998.2	10254.0	9377.5	8546.2	7986.8	7887.4
65°	7840.4	7931.0	8624.6	9851.5	11482.6	12688.6	11008.6	9393.1	8234.2	7537.2	7432.6
67.5°	5778.8	5960.0	6878.4	8889.5	11399.0	13122.5	10874.4	8523.5	7152.0	6322.5	6177.9
70°	2851.1	3023.6	3752.0	5848.5	9379.2	11730.1	9408.8	6423.6	4830.8	4032.6	3900.2
72.5°	1049.1	1118.8	1404.6	2502.5	5175.8	8664.7	6434.0	3588.2	2340.4	1862.9	1774.1
75°	514.1	526.3	569.9	840.0	1910.0	4077.9	3023.6	1376.7	860.9	749.4	725.0
77.5°	327.6	332.9	353.8	400.8	613.4	1284.4	916.7	543.7	421.7	404.3	404.3
80°	183.0	188.2	216.1	249.2	287.5	440.9	329.4	325.9	277.1	242.2	237.0
82.5°	87.1	95.8	137.7	135.9	151.6	221.3	193.4	176.0	177.8	134.2	127.2
85°	40.1	40.1	54.0	64.5	68.0	74.9	88.9	101.1	99.3	68.0	73.2
87.5°	19.2	19.2	19.2	17.4	15.7	13.9	19.2	31.4	45.3	31.4	29.6
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)