

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: P637740

Luminaire Tested: GWS-SA4D-740-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637740
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-SA4D-740-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25360.6 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

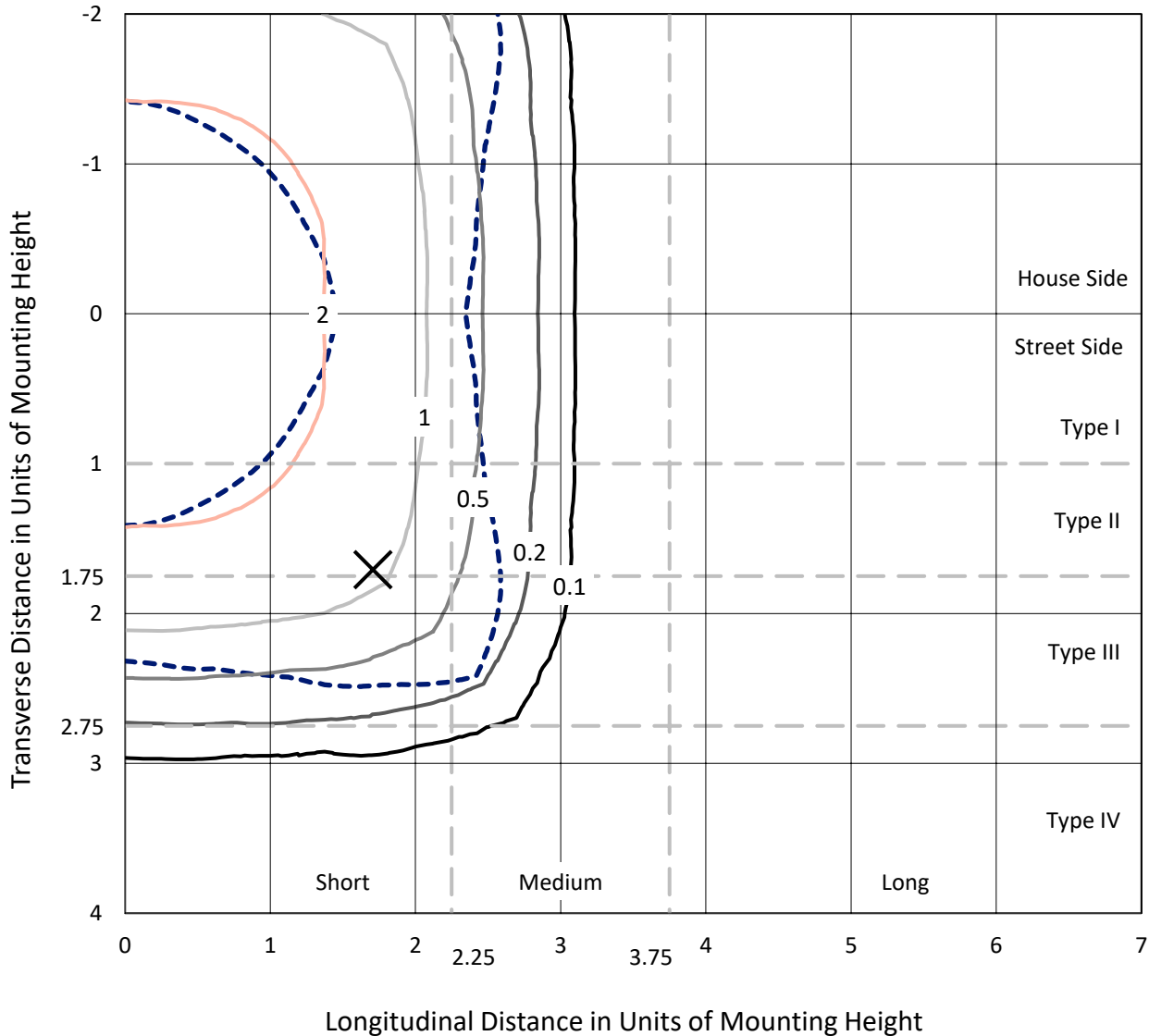
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

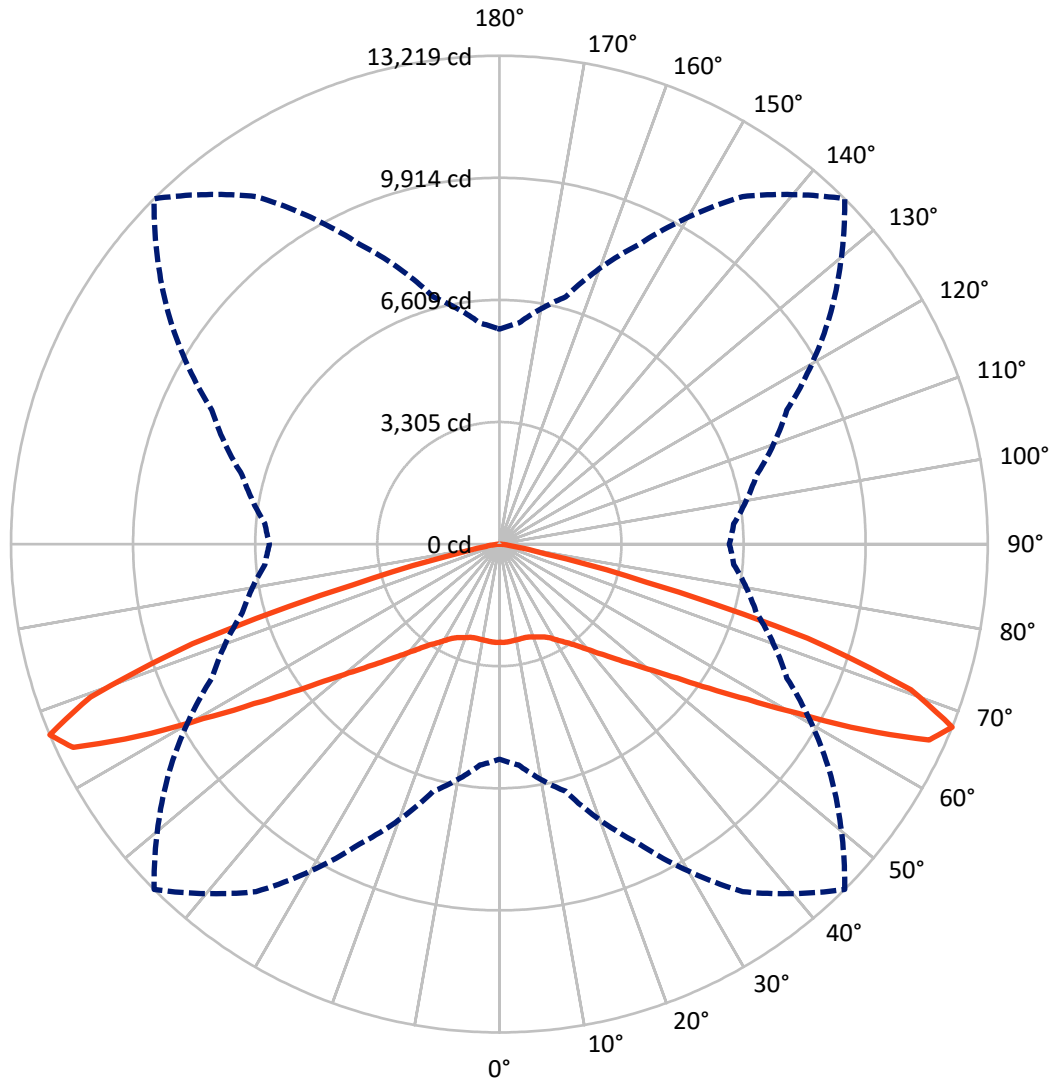
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	12680.3	0.0	12680.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12680.3	0.0	12680.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	25360.6	0.0	25360.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.0
10°-20°	738.4	2.9
20°-30°	1273.4	5.0
30°-40°	2070.7	8.2
40°-50°	3486.6	13.7
50°-60°	6177.6	24.4
60°-70°	8830.4	34.8
70°-80°	2423.6	9.6
80°-90°	108.6	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°	25360.6	100.0
0°-180°	25360.6	100.0

Coefficient of Utilization



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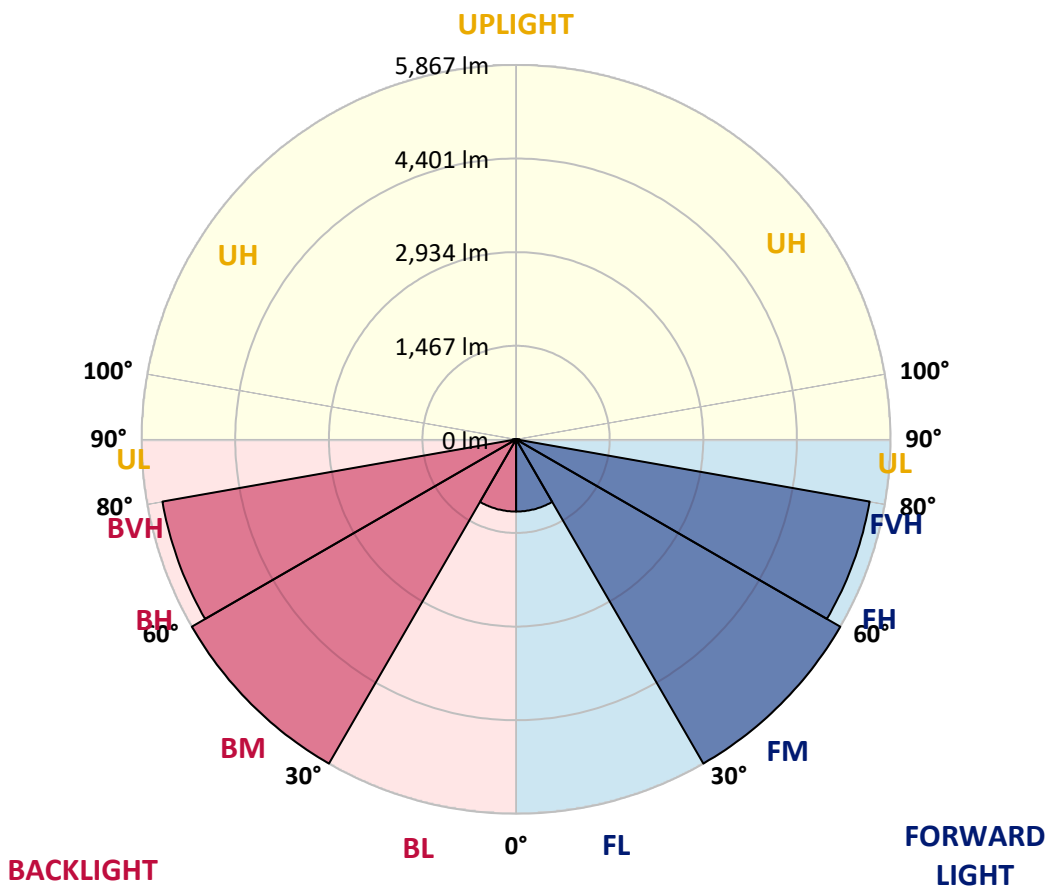
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.6	4.5			
FM (30°-60°)	5867.4	23.1			
FH (60°-80°)	5627.0	22.2			G3/7500
FVH (80°-90°)	54.3	0.2			G1/100
BL (0°-30°)	1131.6	4.5	B3/2500		
BM (30°-60°)	5867.4	23.1	B4/8500		
BH (60°-80°)	5627.0	22.2	B5		G3/7500
BVH (80°-90°)	54.3	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°	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1
2.5°	2638.5	2636.8	2645.5	2650.8	2649.1	2661.3	2659.6	2656.1	2656.1	2650.8	2664.9
5°	2638.5	2636.8	2643.8	2645.5	2642.0	2652.6	2649.1	2645.5	2645.5	2638.5	2650.8
7.5°	2624.5	2626.2	2631.5	2635.0	2631.5	2640.3	2635.0	2628.0	2626.2	2619.2	2631.5
10°	2598.1	2599.9	2605.2	2613.9	2615.7	2631.5	2622.7	2610.4	2605.2	2598.1	2610.4
12.5°	2582.3	2584.1	2589.4	2599.9	2603.4	2624.5	2615.7	2596.4	2587.6	2580.6	2592.9
15°	2578.8	2580.6	2587.6	2598.1	2603.4	2624.5	2615.7	2592.9	2580.6	2571.8	2582.3
17.5°	2578.8	2582.3	2592.9	2608.7	2619.2	2640.3	2629.7	2603.4	2585.9	2570.1	2580.6
20°	2580.6	2585.9	2601.7	2624.5	2650.8	2680.7	2666.6	2631.5	2606.9	2587.6	2594.6
22.5°	2596.4	2605.2	2624.5	2654.3	2692.9	2728.1	2715.8	2668.4	2633.3	2606.9	2613.9
25°	2650.8	2654.3	2678.9	2717.5	2754.4	2784.2	2771.9	2728.1	2684.2	2652.6	2661.3
27.5°	2747.4	2756.1	2777.2	2817.6	2849.2	2865.0	2863.2	2833.4	2789.5	2761.4	2768.4
30°	2863.2	2872.0	2900.1	2945.7	2977.3	2994.9	2989.6	2966.8	2926.4	2887.8	2894.8
32.5°	2998.4	3001.9	3035.3	3086.2	3119.5	3145.9	3128.3	3103.7	3052.8	3007.2	3010.7
35°	3170.4	3175.7	3210.8	3258.2	3284.5	3305.6	3302.1	3277.5	3223.1	3173.9	3186.2
37.5°	3386.4	3389.9	3421.5	3481.2	3502.2	3518.0	3521.5	3509.3	3453.1	3389.9	3402.2
40°	3655.0	3656.7	3691.8	3744.5	3767.3	3777.8	3779.6	3781.4	3723.4	3676.0	3672.5
42.5°	3967.4	3976.2	4025.4	4076.3	4086.8	4081.5	4099.1	4116.7	4060.5	3995.5	4000.8
45°	4341.4	4346.6	4413.3	4469.5	4450.2	4432.6	4466.0	4501.1	4450.2	4365.9	4341.4
47.5°	4783.7	4794.3	4866.3	4922.4	4890.8	4859.2	4913.7	4950.5	4868.0	4778.5	4755.7
50°	5284.1	5291.1	5392.9	5463.1	5426.3	5368.3	5436.8	5475.4	5364.8	5254.2	5205.1
52.5°	5875.7	5861.6	5996.8	6119.7	6096.9	6021.4	6077.6	6084.6	5919.6	5763.3	5714.2
55°	6597.2	6583.1	6718.3	6853.5	6909.7	6890.3	6864.0	6821.9	6577.9	6411.1	6365.5
57.5°	7438.1	7394.2	7583.8	7766.3	7889.2	7924.3	7812.0	7713.7	7520.6	7315.2	7262.5
60°	8219.3	8217.5	8517.7	8833.7	9170.7	9311.2	9026.8	8760.0	8326.4	7952.4	7876.9
62.5°	8438.7	8475.6	8967.1	9750.1	10582.2	11079.0	10329.4	9446.4	8609.0	8045.5	7945.4
65°	7898.0	7989.3	8688.0	9923.9	11567.0	12781.8	11089.5	9462.2	8294.8	7592.6	7487.2
67.5°	5821.2	6003.8	6929.0	8954.8	11482.7	13218.9	10954.3	8586.2	7204.6	6369.0	6223.3
70°	2872.0	3045.8	3779.6	5891.5	9448.1	11816.3	9478.0	6470.8	4866.3	4062.2	3928.8
72.5°	1056.8	1127.0	1414.9	2520.9	5213.8	8728.4	6481.3	3614.6	2357.6	1876.6	1787.1
75°	517.9	530.2	574.0	846.2	1924.0	4107.9	3045.8	1386.8	867.2	754.9	730.3
77.5°	330.0	335.3	356.4	403.8	617.9	1293.8	923.4	547.7	424.8	407.3	407.3
80°	184.3	189.6	217.7	251.0	289.7	444.1	331.8	328.3	279.1	244.0	238.7
82.5°	87.8	96.6	138.7	136.9	152.7	222.9	194.9	177.3	179.1	135.2	128.2
85°	40.4	40.4	54.4	65.0	68.5	75.5	89.5	101.8	100.1	68.5	73.7
87.5°	19.3	19.3	19.3	17.6	15.8	14.0	19.3	31.6	45.6	31.6	29.8
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)