

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: P638508

Luminaire Tested: GWS-SA4F-722-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15312.8 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

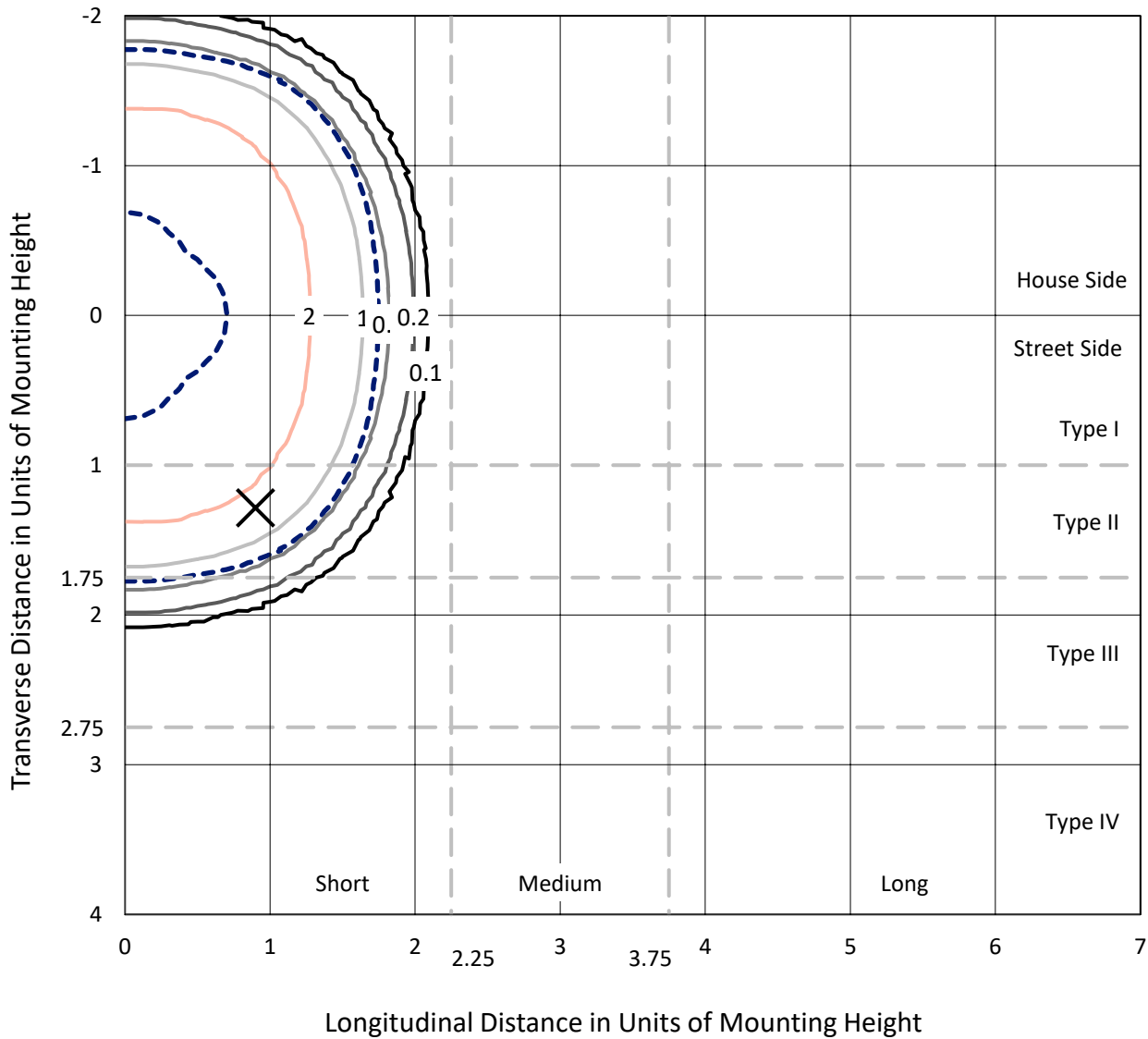
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

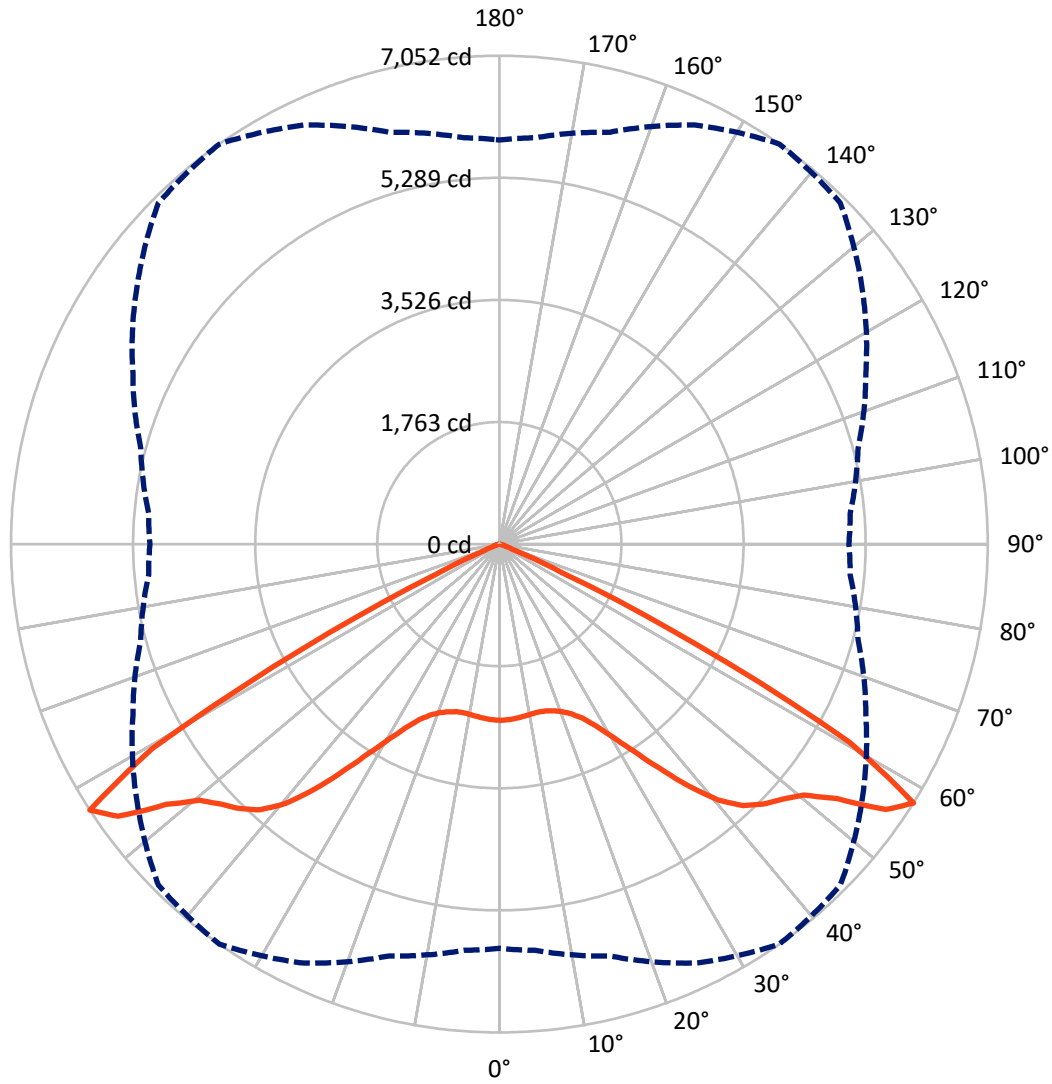
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7656.4	0.0	7656.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7656.4	0.0	7656.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	15312.8	0.0	15312.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.6
10°-20°	705.6	4.6
20°-30°	1275.4	8.3
30°-40°	2379.3	15.5
40°-50°	3991.3	26.1
50°-60°	5270.9	34.4
60°-70°	1399.8	9.1
70°-80°	49.7	0.3
80°-90°	0.9	0.0
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°	15312.8	100.0
0°-180°	15312.8	100.0

Coefficient of Utilization



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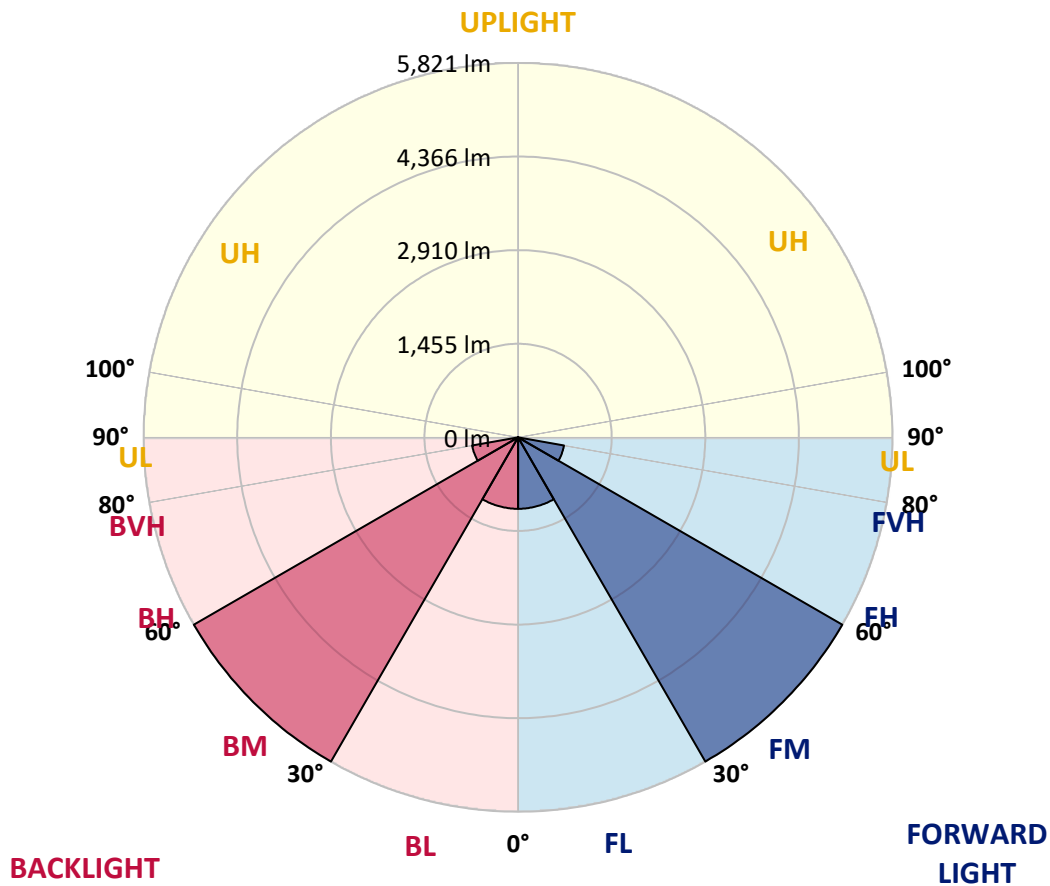
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.4	7.3			
FM (30°-60°)	5820.8	38.0			
FH (60°-80°)	724.8	4.7			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1110.4	7.3	B3/2500		
BM (30°-60°)	5820.8	38.0	B4/8500		
BH (60°-80°)	724.8	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2527.9	2526.1	2533.3	2538.7	2538.7	2551.3	2547.7	2544.1	2540.5	2535.1	2547.7
5°	2524.3	2522.5	2527.9	2531.5	2527.9	2538.7	2531.5	2524.3	2520.7	2513.6	2527.9
7.5°	2508.2	2510.0	2513.6	2517.1	2511.8	2520.7	2511.8	2501.0	2492.0	2484.8	2497.4
10°	2483.0	2484.8	2488.4	2495.6	2497.4	2510.0	2497.4	2477.6	2465.0	2454.3	2466.8
12.5°	2470.4	2472.2	2477.6	2486.6	2488.4	2504.6	2488.4	2459.7	2441.7	2429.1	2441.7
15°	2474.0	2477.6	2484.8	2495.6	2499.2	2515.3	2493.8	2456.1	2430.9	2414.7	2425.5
17.5°	2486.6	2490.2	2501.0	2518.9	2531.5	2547.7	2520.7	2472.2	2438.1	2414.7	2425.5
20°	2502.8	2508.2	2526.1	2554.9	2581.8	2610.6	2576.4	2510.0	2465.0	2436.3	2445.3
22.5°	2547.7	2553.1	2578.2	2616.0	2660.9	2696.8	2655.5	2571.0	2510.0	2472.2	2481.2
25°	2639.3	2644.7	2677.0	2725.6	2783.1	2829.8	2777.7	2671.7	2592.6	2549.5	2553.1
27.5°	2783.1	2788.4	2826.2	2894.4	2971.7	3038.2	2962.7	2838.7	2748.9	2698.6	2698.6
30°	2964.5	2971.7	3022.0	3113.6	3234.0	3322.1	3219.6	3068.7	2953.7	2885.5	2887.3
32.5°	3198.1	3190.9	3262.8	3388.5	3559.2	3676.0	3525.1	3341.8	3199.9	3104.7	3113.6
35°	3498.1	3496.3	3577.2	3747.9	3970.7	4110.8	3931.1	3694.0	3523.3	3426.3	3428.1
37.5°	3884.4	3882.6	3976.0	4161.1	4428.8	4545.6	4344.4	4103.6	3920.3	3826.9	3837.7
40°	4337.2	4326.4	4409.0	4586.9	4854.6	4930.1	4710.9	4516.8	4340.8	4281.5	4310.2
42.5°	4768.4	4745.0	4793.5	4955.2	5161.9	5172.6	5007.3	4874.4	4754.0	4707.3	4725.3
45°	5115.1	5097.2	5142.1	5235.5	5354.1	5300.2	5221.1	5179.8	5082.8	5032.5	5048.7
47.5°	5373.9	5373.9	5427.8	5485.3	5503.2	5404.4	5417.0	5417.0	5320.0	5240.9	5221.1
50°	5596.6	5612.8	5693.7	5753.0	5693.7	5567.9	5639.8	5625.4	5427.8	5269.7	5228.3
52.5°	5952.4	5968.6	6092.5	6173.4	6106.9	5982.9	5991.9	5812.2	5521.2	5334.3	5269.7
55°	6329.7	6369.2	6548.9	6764.5	6766.3	6638.7	6401.6	6083.5	5729.6	5526.6	5460.1
57.5°	5835.6	5889.5	6157.2	6676.5	7052.0	6963.9	6398.0	5839.2	5361.3	5084.6	5046.9
60°	4015.6	4109.0	4376.7	5086.4	5810.5	5844.6	5176.2	4549.2	4001.2	3659.8	3667.0
62.5°	1696.1	1791.3	1942.2	2526.1	3190.9	3232.2	2908.8	2459.7	2012.3	1766.1	1803.9
65°	398.9	425.8	470.7	698.9	1013.3	1060.0	977.4	761.8	562.4	476.1	485.1
67.5°	174.3	177.9	168.9	179.7	222.8	228.2	221.0	194.0	183.3	186.9	186.9
70°	122.2	124.0	116.8	111.4	106.0	98.8	102.4	113.2	122.2	129.4	127.6
72.5°	75.5	77.3	79.1	79.1	73.7	66.5	70.1	77.3	79.1	80.9	79.1
75°	37.7	39.5	43.1	44.9	43.1	41.3	41.3	43.1	43.1	41.3	41.3
77.5°	7.2	9.0	12.6	14.4	14.4	14.4	14.4	14.4	16.2	14.4	14.4
80°	1.8	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
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)