

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: P637631

Luminaire Tested: GWS-SA4D-730-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15692.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

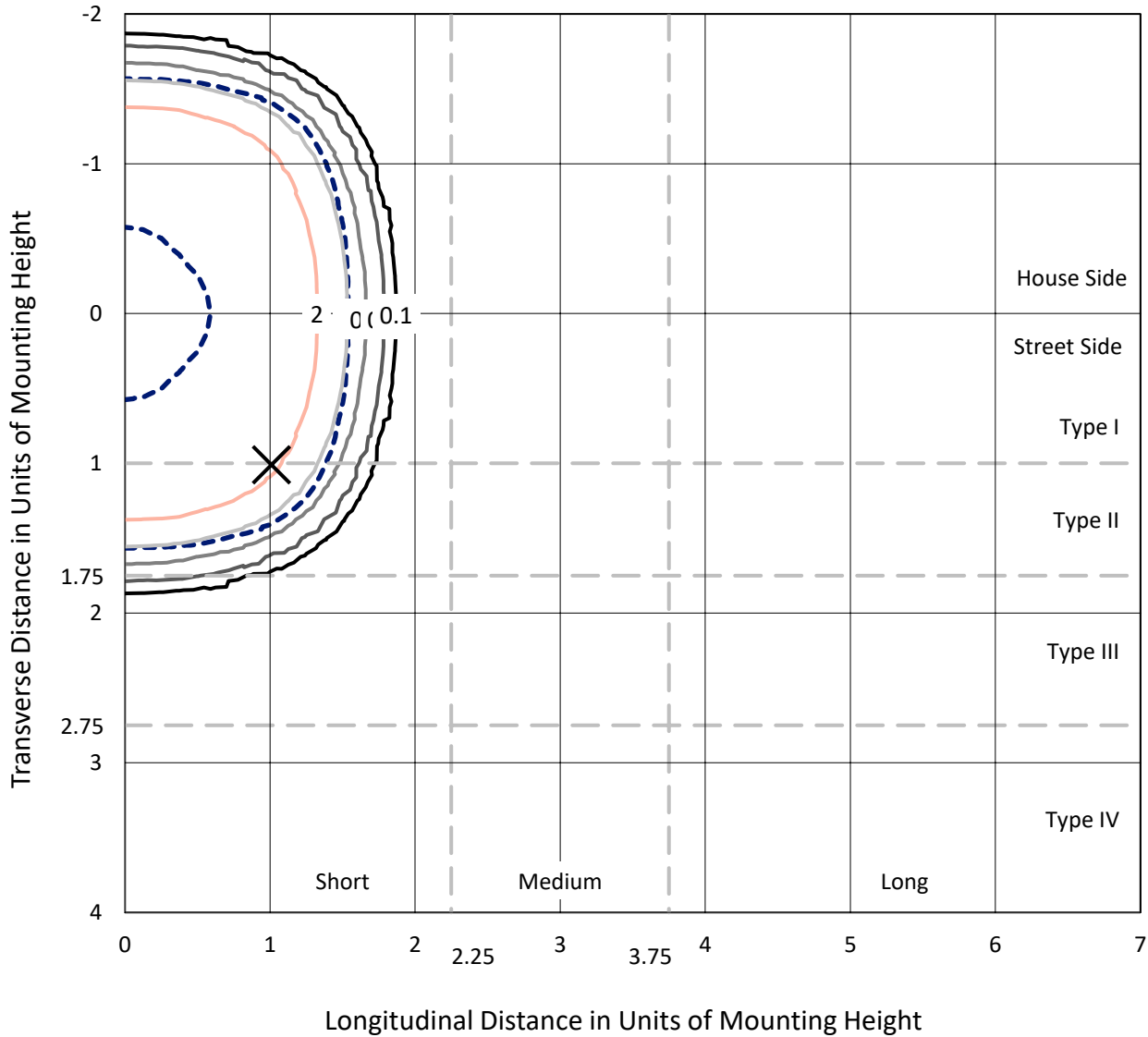
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

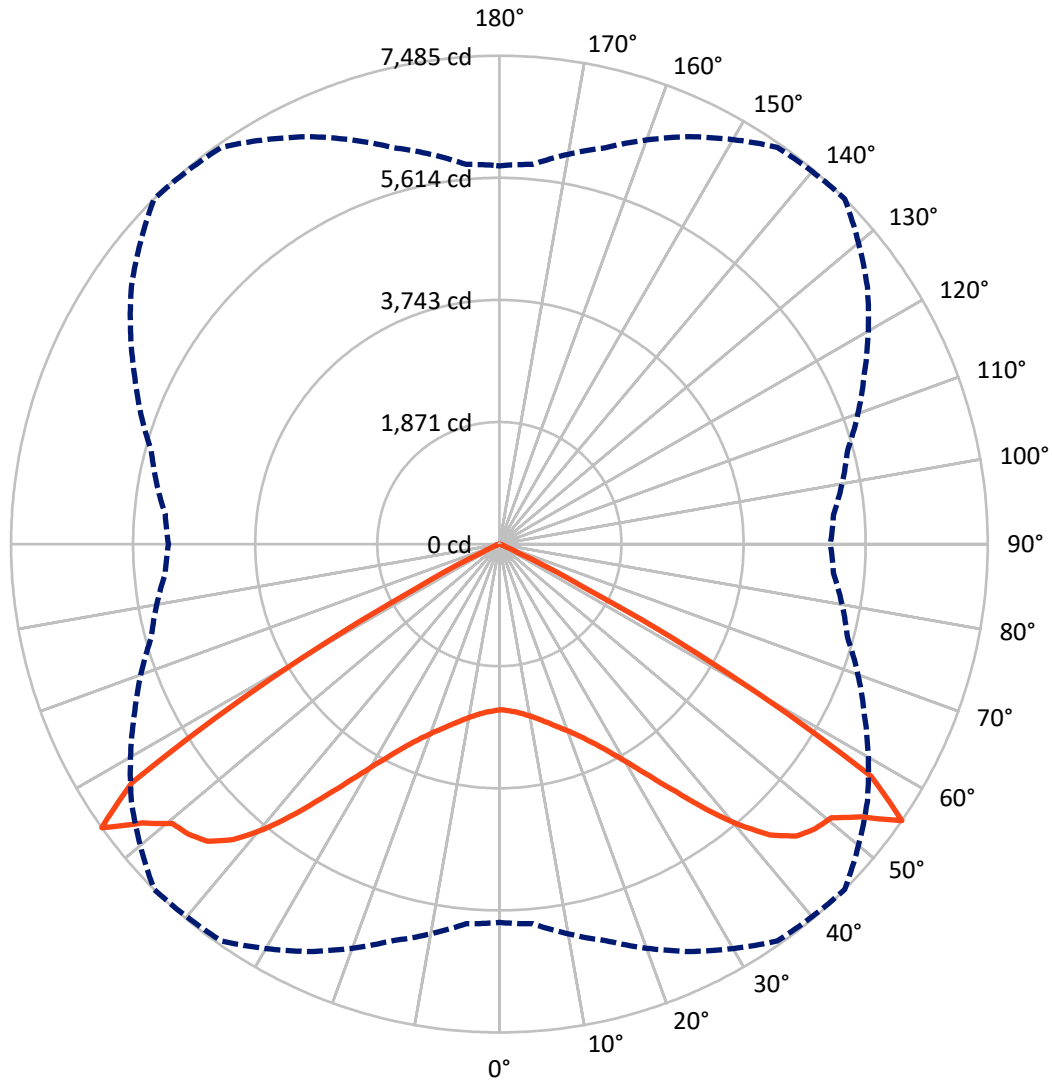
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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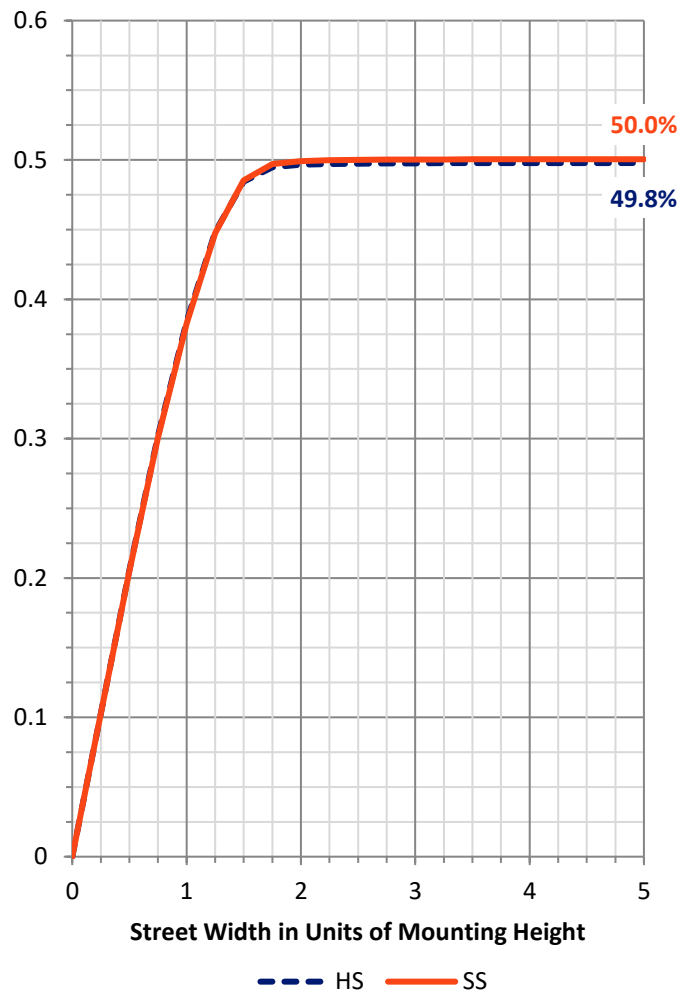
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7846.1	0.0	7846.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7846.1	0.0	7846.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15692.1	0.0	15692.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	1.6
10°-20°	805.8	5.1
20°-30°	1560.5	9.9
30°-40°	2795.7	17.8
40°-50°	4687.3	29.9
50°-60°	5017.5	32.0
60°-70°	551.4	3.5
70°-80°	24.3	0.2
80°-90°	1.1	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°	15692.1	100.0
0°-180°	15692.1	100.0

Coefficient of Utilization



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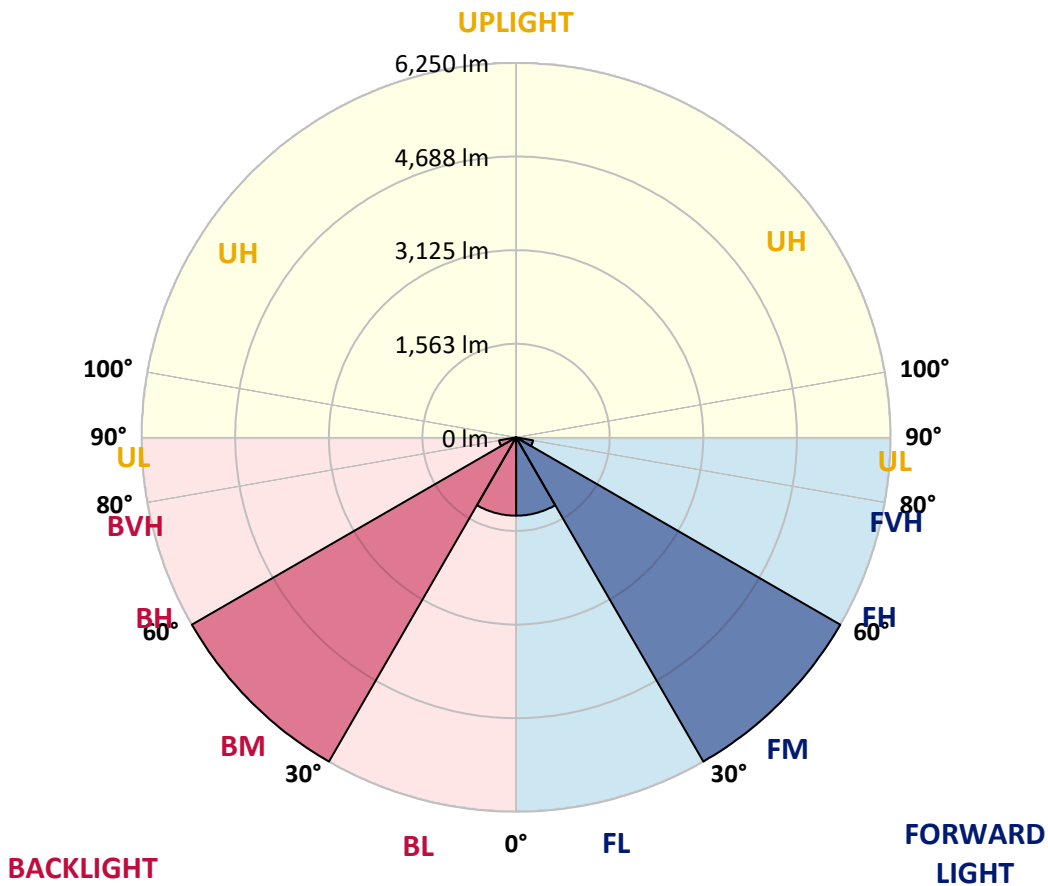
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.4	8.3			
FM (30°-60°)	6250.2	39.8			
FH (60°-80°)	287.8	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1307.4	8.3	B3/2500		
BM (30°-60°)	6250.2	39.8	B4/8500		
BH (60°-80°)	287.8	1.8	B1/500		G0/660
BVH (80°-90°)	0.6	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1
2.5°	2532.3	2532.3	2538.7	2543.5	2543.5	2556.3	2551.5	2546.7	2546.7	2540.3	2553.1
5°	2569.1	2567.5	2573.9	2577.1	2570.7	2583.5	2575.5	2570.7	2567.5	2561.1	2573.9
7.5°	2609.1	2610.6	2612.2	2618.6	2615.4	2628.2	2621.8	2612.2	2609.1	2599.5	2612.2
10°	2657.0	2657.0	2660.2	2668.2	2669.8	2685.8	2679.4	2668.2	2658.6	2649.0	2661.8
12.5°	2717.8	2719.4	2724.2	2735.3	2741.7	2759.3	2749.7	2727.4	2713.0	2701.8	2716.2
15°	2805.7	2804.1	2810.5	2826.5	2834.5	2847.3	2832.9	2802.5	2784.9	2772.1	2781.7
17.5°	2901.6	2901.6	2904.8	2920.8	2932.0	2951.2	2933.6	2896.8	2880.8	2863.2	2872.8
20°	3007.1	3011.9	3015.1	3026.3	3045.5	3064.7	3050.3	3013.5	2995.9	2973.6	2984.7
22.5°	3146.2	3141.4	3143.0	3162.2	3189.4	3208.6	3197.4	3154.2	3123.8	3106.2	3112.6
25°	3301.3	3299.7	3304.5	3333.3	3363.6	3384.4	3368.4	3312.5	3282.1	3251.7	3264.5
27.5°	3491.5	3493.1	3496.3	3531.5	3579.5	3609.8	3569.9	3513.9	3472.3	3432.4	3442.0
30°	3716.9	3713.7	3723.3	3771.3	3841.6	3889.6	3843.2	3764.9	3705.7	3667.4	3672.2
32.5°	3956.7	3959.9	3985.5	4062.3	4155.0	4239.7	4145.4	4041.5	3964.7	3892.8	3902.4
35°	4215.7	4223.7	4281.3	4394.8	4546.7	4660.2	4529.1	4358.0	4249.3	4156.6	4159.8
37.5°	4521.1	4540.3	4620.2	4789.7	5007.1	5159.0	4967.1	4740.1	4599.4	4484.3	4476.3
40°	4922.3	4944.7	5053.4	5254.9	5518.7	5657.7	5435.5	5202.1	5027.9	4903.2	4884.0
42.5°	5382.8	5411.5	5529.8	5736.1	5999.9	6094.2	5876.8	5680.1	5523.5	5376.4	5370.0
45°	5902.3	5918.3	6014.2	6172.5	6362.8	6385.1	6222.1	6113.4	5955.1	5817.6	5806.4
47.5°	6389.9	6405.9	6471.5	6553.0	6597.8	6517.8	6489.1	6441.1	6236.5	6067.0	6031.8
50°	6760.8	6773.6	6855.2	6887.1	6762.4	6593.0	6648.9	6546.6	6324.4	6134.1	6079.8
52.5°	6735.3	6767.2	6976.7	7158.9	7080.6	6943.1	6792.8	6572.2	6226.9	5966.3	5899.1
55°	5798.4	5841.6	6290.8	6890.3	7425.9	7485.0	6883.9	6172.5	5523.5	5141.4	5072.6
57.5°	3726.5	3737.7	4286.1	5127.0	6334.0	6714.5	5708.9	4653.8	3846.4	3426.0	3397.2
60°	1370.1	1347.7	1761.7	2458.8	3648.2	4051.1	3360.4	2353.3	1678.6	1381.3	1357.3
62.5°	329.3	332.5	412.5	618.7	1144.7	1416.4	1119.1	625.1	398.1	334.1	330.9
65°	166.3	163.1	164.7	177.5	244.6	292.6	239.8	169.5	163.1	164.7	163.1
67.5°	107.1	105.5	108.7	110.3	108.7	102.3	100.7	103.9	103.9	105.5	102.3
70°	65.5	63.9	67.1	71.9	68.7	60.7	63.9	67.1	63.9	62.3	62.3
72.5°	35.2	35.2	38.4	41.6	38.4	35.2	35.2	36.8	35.2	35.2	35.2
75°	16.0	16.0	17.6	19.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0
77.5°	4.8	4.8	6.4	6.4	4.8	4.8	4.8	4.8	6.4	6.4	6.4
80°	1.6	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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)