

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: P638016

Luminaire Tested: GWS-SA4E-722-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638016
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15862.2 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

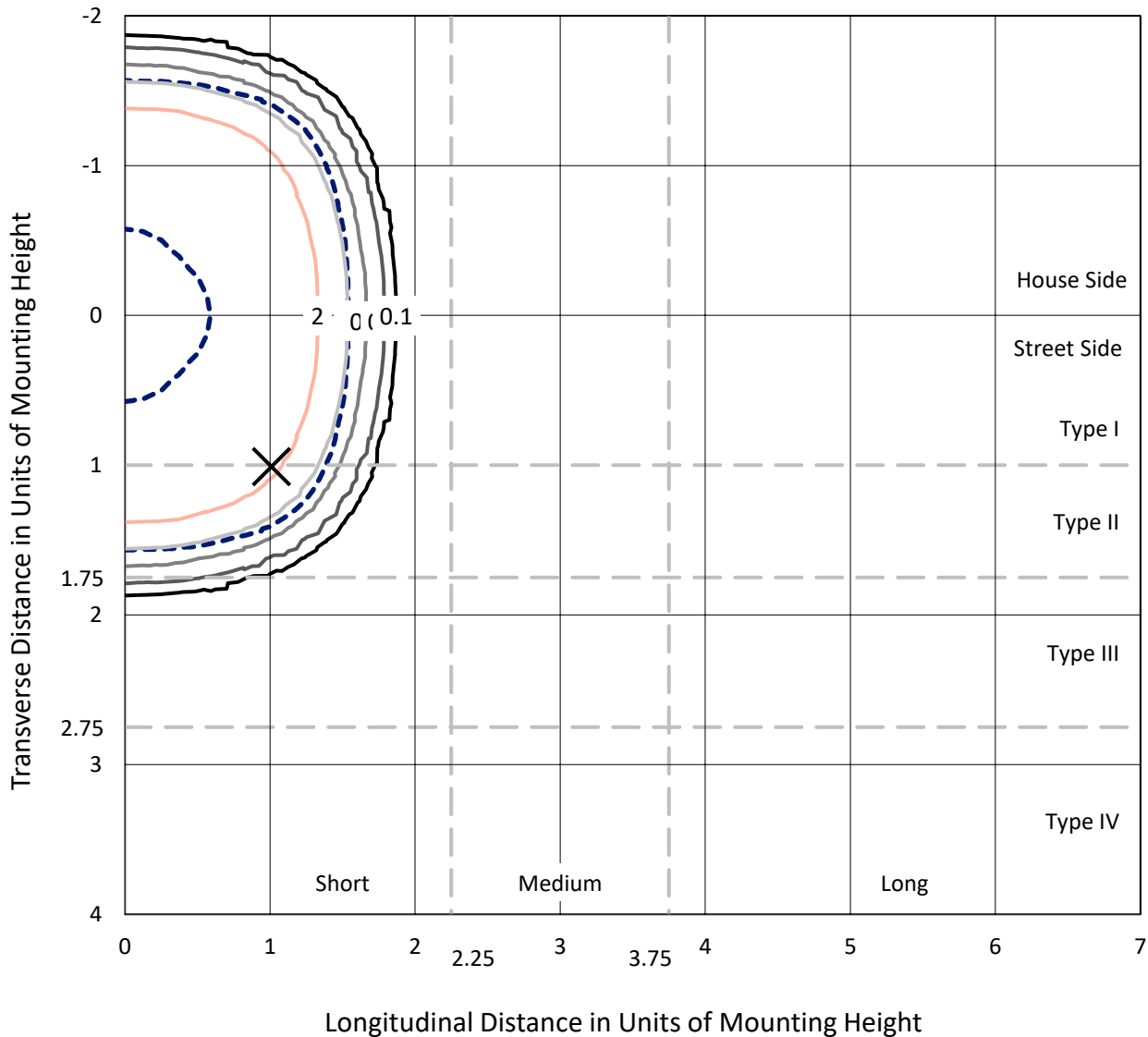
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

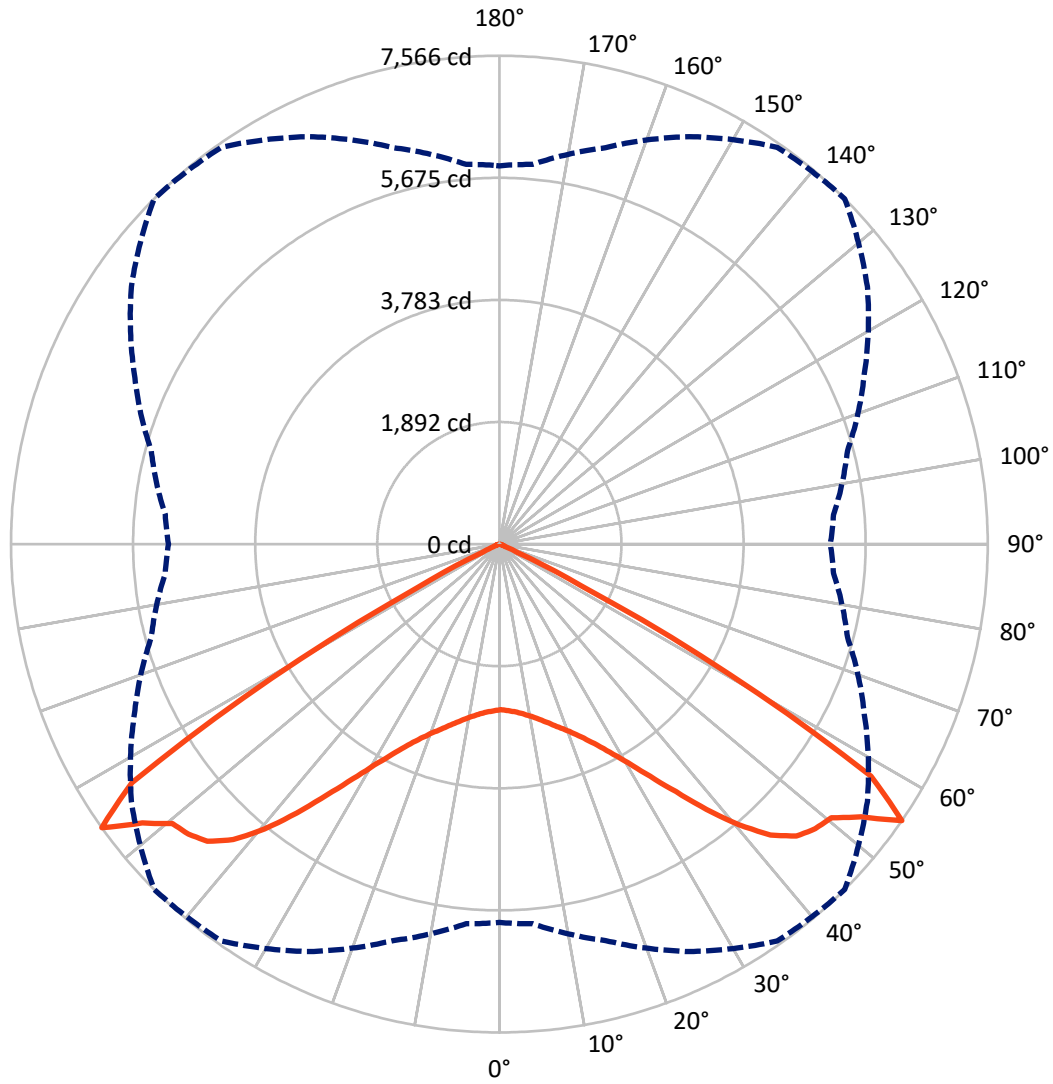
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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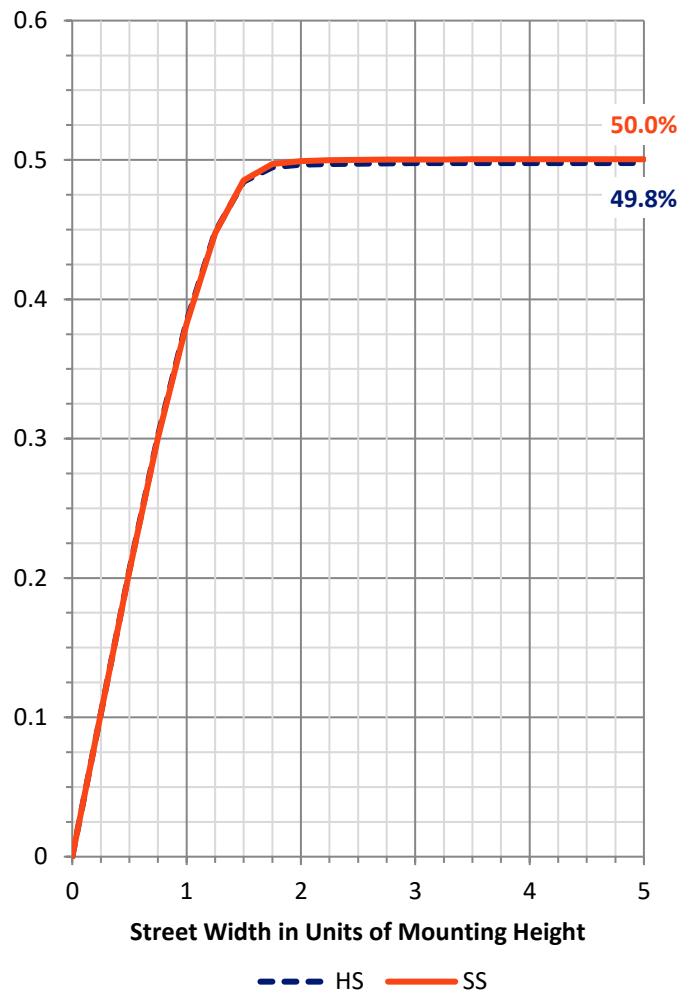
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7931.1	0.0	7931.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7931.1	0.0	7931.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15862.2	0.0	15862.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	1.6
10°-20°	814.5	5.1
20°-30°	1577.4	9.9
30°-40°	2826.0	17.8
40°-50°	4738.1	29.9
50°-60°	5071.9	32.0
60°-70°	557.3	3.5
70°-80°	24.5	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°	15862.2	100.0
0°-180°	15862.2	100.0

Coefficient of Utilization



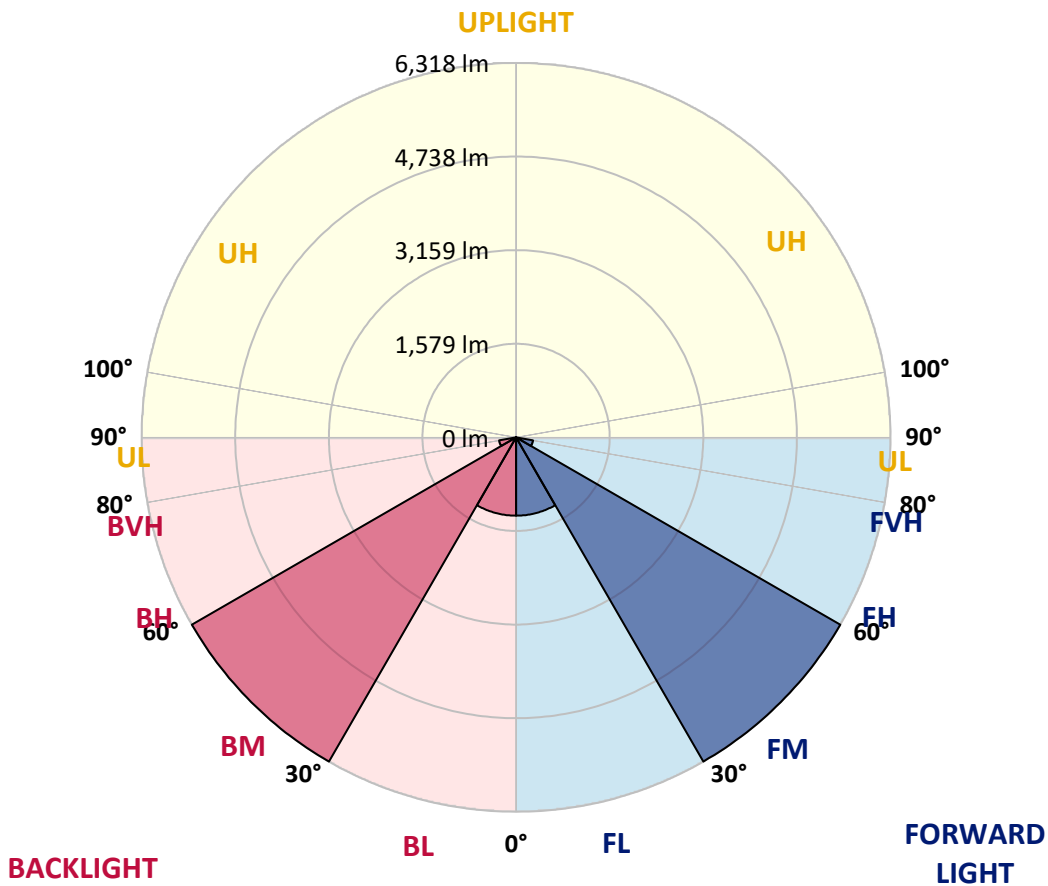
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.6	8.3			
FM (30°-60°)	6318.0	39.8			
FH (60°-80°)	290.9	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1321.6	8.3	B3/2500		
BM (30°-60°)	6318.0	39.8	B4/8500		
BH (60°-80°)	290.9	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°	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6	2564.6
2.5°	2559.8	2559.8	2566.2	2571.1	2571.1	2584.0	2579.2	2574.3	2574.3	2567.8	2580.8
5°	2596.9	2595.3	2601.8	2605.0	2598.5	2611.5	2603.4	2598.5	2595.3	2588.9	2601.8
7.5°	2637.3	2638.9	2640.6	2647.0	2643.8	2656.7	2650.3	2640.6	2637.3	2627.6	2640.6
10°	2685.8	2685.8	2689.0	2697.1	2698.7	2714.9	2708.4	2697.1	2687.4	2677.7	2690.7
12.5°	2747.2	2748.8	2753.7	2765.0	2771.5	2789.2	2779.5	2756.9	2742.4	2731.1	2745.6
15°	2836.1	2834.5	2841.0	2857.1	2865.2	2878.1	2863.6	2832.9	2815.1	2802.2	2811.9
17.5°	2933.1	2933.1	2936.3	2952.5	2963.8	2983.2	2965.4	2928.2	2912.1	2894.3	2904.0
20°	3039.7	3044.6	3047.8	3059.1	3078.5	3097.9	3083.4	3046.2	3028.4	3005.8	3017.1
22.5°	3180.3	3175.5	3177.1	3196.5	3223.9	3243.3	3232.0	3188.4	3157.7	3139.9	3146.4
25°	3337.1	3335.5	3340.3	3369.4	3400.1	3421.1	3404.9	3348.4	3317.7	3287.0	3299.9
27.5°	3529.4	3531.0	3534.2	3569.8	3618.3	3649.0	3608.6	3552.0	3510.0	3469.6	3479.3
30°	3757.2	3754.0	3763.7	3812.2	3883.3	3931.8	3884.9	3805.7	3745.9	3707.1	3712.0
32.5°	3999.6	4002.9	4028.7	4106.3	4200.0	4285.7	4190.3	4085.3	4007.7	3935.0	3944.7
35°	4261.4	4269.5	4327.7	4442.4	4595.9	4710.7	4578.2	4405.3	4295.4	4201.6	4204.9
37.5°	4570.1	4589.5	4670.3	4841.6	5061.4	5214.9	5021.0	4791.5	4649.3	4532.9	4524.8
40°	4975.7	4998.3	5108.2	5311.8	5578.5	5719.1	5494.4	5258.5	5082.4	4956.3	4936.9
42.5°	5441.1	5470.2	5589.8	5798.3	6064.9	6160.2	5940.5	5741.7	5583.3	5434.7	5428.2
45°	5966.3	5982.5	6079.4	6239.4	6431.7	6454.4	6289.5	6179.6	6019.6	5880.7	5869.4
47.5°	6459.2	6475.4	6541.6	6624.0	6669.3	6588.5	6559.4	6510.9	6304.1	6132.8	6097.2
50°	6834.1	6847.0	6929.5	6961.8	6835.7	6664.4	6721.0	6617.6	6392.9	6200.6	6145.7
52.5°	6808.3	6840.6	7052.3	7236.5	7157.3	7018.3	6866.4	6643.4	6294.4	6031.0	5963.1
55°	5861.3	5904.9	6359.0	6965.0	7506.4	7566.2	6958.6	6239.4	5583.3	5197.1	5127.6
57.5°	3766.9	3778.2	4332.5	5182.6	6402.6	6787.3	5770.8	4704.2	3888.1	3463.1	3434.0
60°	1384.9	1362.3	1780.8	2485.4	3687.7	4095.0	3396.9	2378.8	1696.8	1396.2	1372.0
62.5°	332.9	336.1	416.9	625.4	1157.1	1431.8	1131.2	631.9	402.4	337.7	334.5
65°	168.1	164.8	166.4	179.4	247.2	295.7	242.4	171.3	164.8	166.4	164.8
67.5°	108.3	106.7	109.9	111.5	109.9	103.4	101.8	105.0	105.0	106.7	103.4
70°	66.3	64.6	67.9	72.7	69.5	61.4	64.6	67.9	64.6	63.0	63.0
72.5°	35.6	35.6	38.8	42.0	38.8	35.6	35.6	37.2	35.6	35.6	35.6
75°	16.2	16.2	17.8	19.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2
77.5°	4.8	4.8	6.5	6.5	4.8	4.8	4.8	4.8	6.5	6.5	6.5
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)