

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: P638018

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
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  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

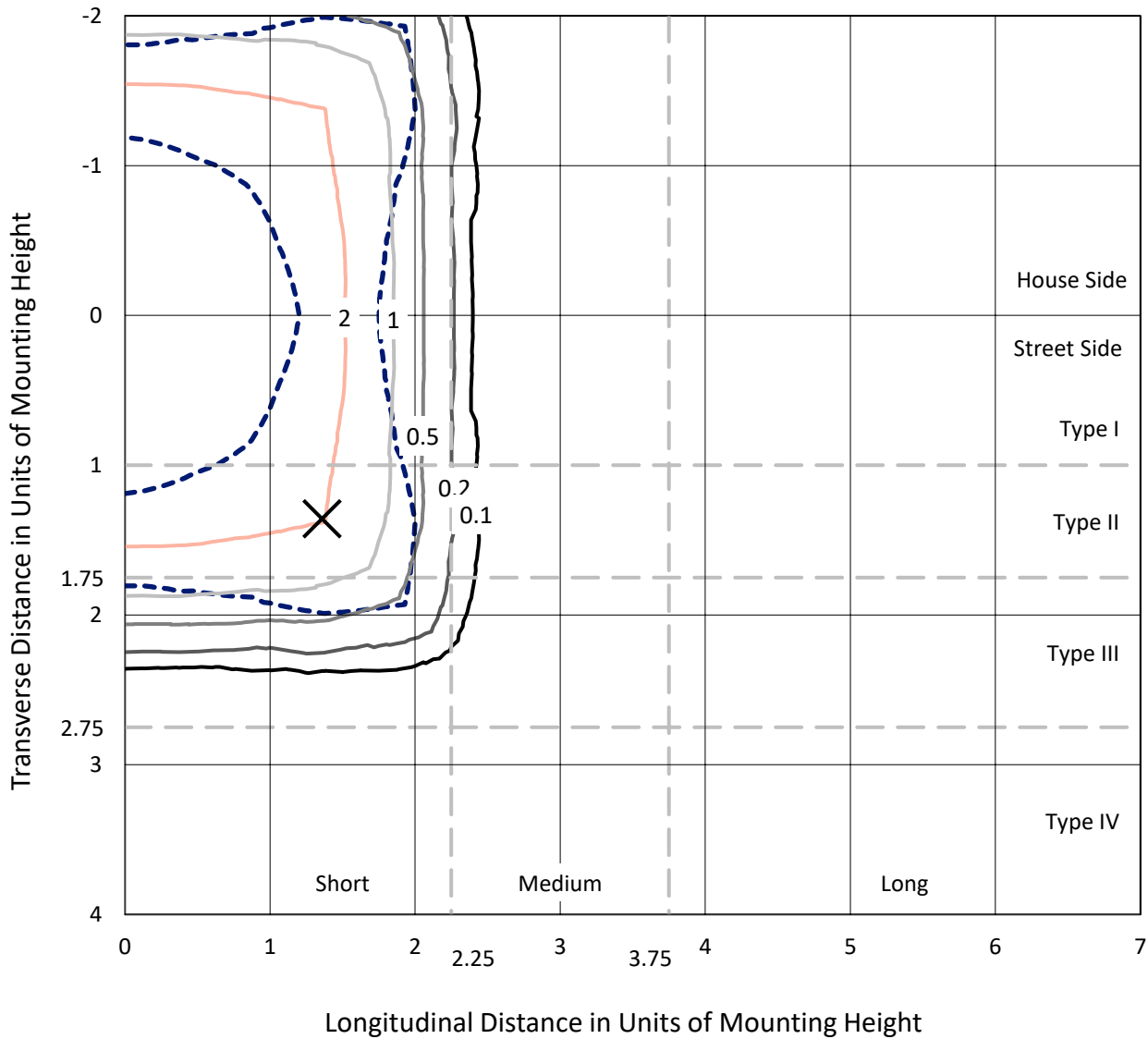
Lumens per Lamp: N/A  
Luminaire Lumens: 23560.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

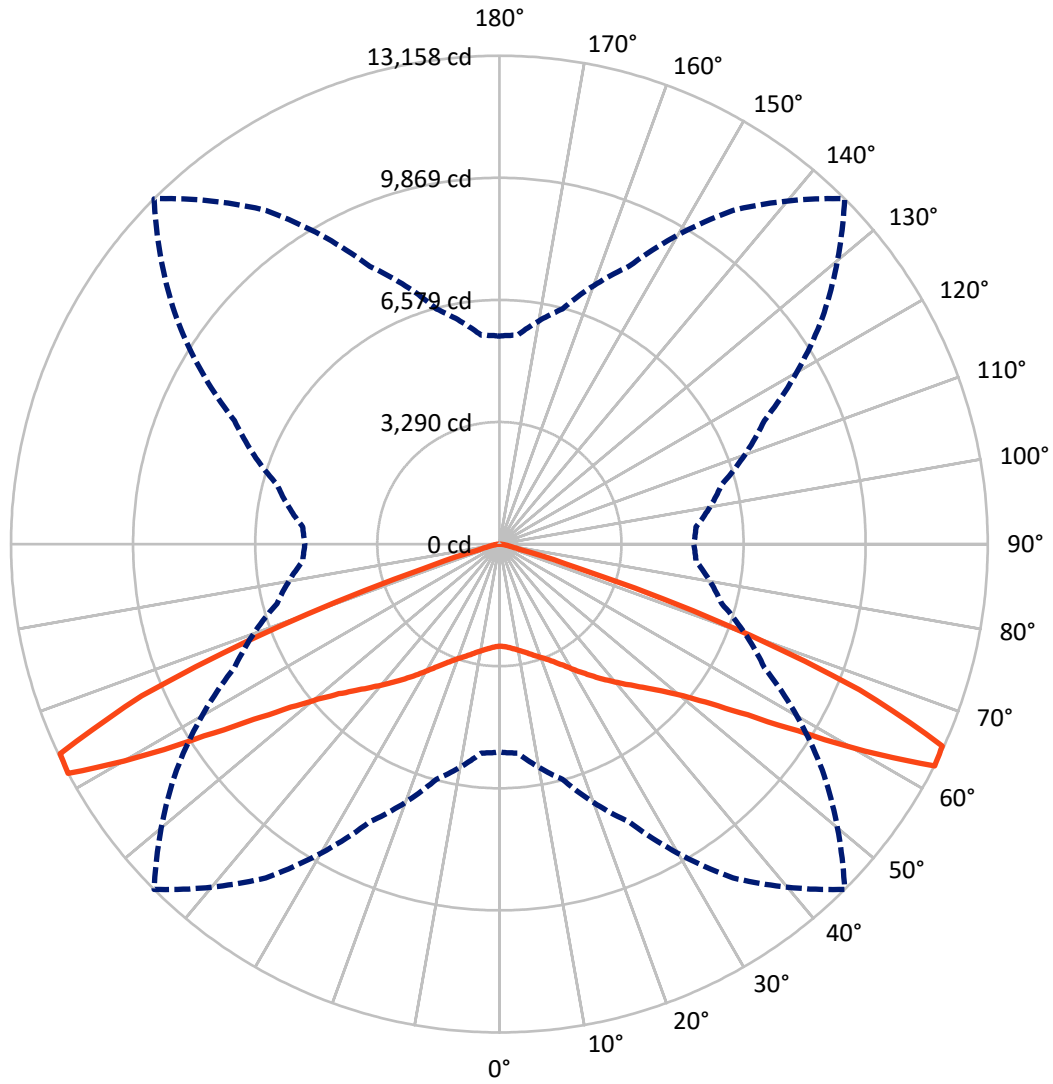
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11780.3	0.0	11780.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11780.3	0.0	11780.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23560.6	0.0	23560.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.7	1.1
10°-20°	869.7	3.7
20°-30°	1645.3	7.0
30°-40°	2769.3	11.8
40°-50°	4424.6	18.8
50°-60°	7132.2	30.3
60°-70°	5819.0	24.7
70°-80°	565.1	2.4
80°-90°	65.7	0.3
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°	23560.6	100.0
0°-180°	23560.6	100.0

**Coefficient of Utilization**



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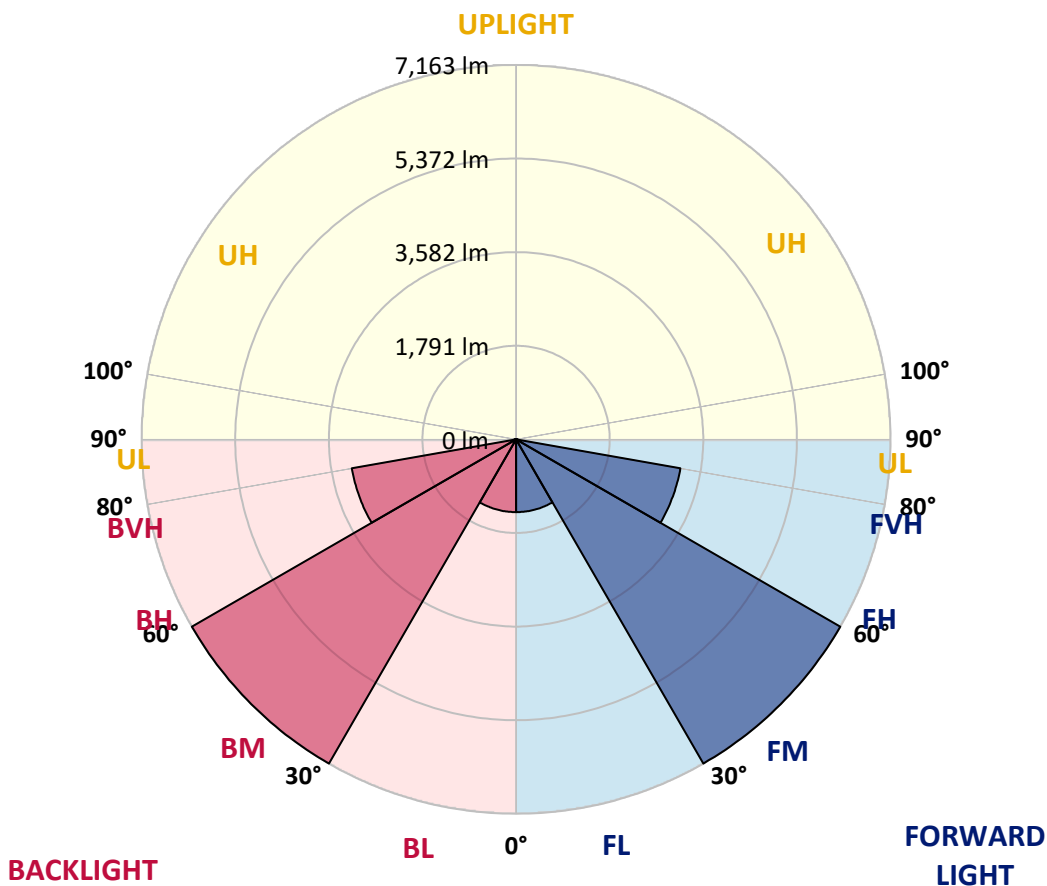
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.3	5.9			
FM (30°-60°)	7163.0	30.4			
FH (60°-80°)	3192.1	13.5			G2/5000
FVH (80°-90°)	32.9	0.1			G1/100
BL (0°-30°)	1392.3	5.9	B3/2500		
BM (30°-60°)	7163.0	30.4	B4/8500		
BH (60°-80°)	3192.1	13.5	B4/5000		G2/5000
BVH (80°-90°)	32.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7	2748.7
2.5°	2745.4	2745.4	2751.9	2756.7	2753.5	2766.4	2764.8	2761.6	2760.0	2755.1	2769.7
5°	2782.6	2782.6	2787.4	2792.3	2784.2	2800.4	2793.9	2790.7	2789.1	2782.6	2795.5
7.5°	2824.6	2829.5	2831.1	2839.2	2834.3	2852.1	2847.2	2840.8	2837.5	2829.5	2840.8
10°	2871.5	2874.7	2876.3	2890.9	2892.5	2913.5	2908.6	2900.6	2894.1	2886.0	2902.2
12.5°	2934.5	2936.1	2941.0	2958.7	2963.6	2979.7	2978.1	2966.8	2958.7	2947.4	2965.2
15°	3015.3	3016.9	3025.0	3042.8	3050.8	3070.2	3063.8	3046.0	3034.7	3021.8	3036.3
17.5°	3099.3	3105.8	3113.9	3131.6	3142.9	3165.6	3157.5	3138.1	3128.4	3115.5	3125.2
20°	3207.6	3209.2	3214.0	3233.4	3241.5	3267.4	3269.0	3249.6	3244.7	3231.8	3246.4
22.5°	3327.2	3328.8	3333.6	3354.6	3369.2	3385.3	3395.0	3383.7	3375.6	3359.5	3377.3
25°	3459.7	3475.8	3480.7	3506.5	3522.7	3532.4	3543.7	3538.8	3527.5	3508.1	3516.2
27.5°	3645.5	3648.7	3656.8	3685.9	3695.6	3705.3	3716.6	3718.2	3702.0	3679.4	3690.7
30°	3857.2	3855.6	3873.3	3896.0	3904.0	3912.1	3928.3	3938.0	3917.0	3892.7	3904.0
32.5°	4073.7	4093.1	4115.7	4136.7	4131.9	4135.1	4161.0	4178.7	4149.7	4106.0	4115.7
35°	4317.7	4330.6	4359.7	4390.4	4384.0	4379.1	4395.3	4413.0	4372.7	4316.1	4330.6
37.5°	4568.2	4587.6	4631.2	4668.4	4658.7	4636.0	4653.8	4673.2	4634.4	4569.8	4563.3
40°	4847.7	4878.4	4941.5	4972.2	4946.3	4902.7	4933.4	4980.2	4941.5	4867.1	4849.3
42.5°	5175.8	5212.9	5275.9	5322.8	5266.2	5195.1	5246.9	5314.7	5305.0	5206.5	5175.8
45°	5581.4	5605.6	5683.2	5705.8	5621.7	5523.2	5616.9	5720.3	5696.1	5589.4	5549.0
47.5°	6022.5	6059.7	6127.5	6169.5	6033.8	5911.0	6041.9	6180.9	6155.0	6054.8	6008.0
50°	6584.8	6633.3	6722.2	6757.7	6570.3	6429.7	6597.8	6773.9	6723.8	6589.7	6528.3
52.5°	7197.3	7236.0	7387.9	7459.0	7282.9	7131.0	7278.1	7451.0	7344.3	7166.6	7084.1
55°	7737.0	7775.8	7998.8	8234.7	8226.6	8121.6	8195.9	8199.1	7909.9	7615.8	7528.5
57.5°	7853.3	7892.1	8317.1	8934.4	9370.7	9491.9	9273.7	8814.8	8086.0	7570.5	7472.0
60°	7232.8	7276.4	7951.9	9079.8	10514.7	11324.3	10319.2	8801.9	7541.4	6843.4	6749.7
62.5°	5604.0	5650.8	6559.0	8252.4	10976.9	13158.3	10623.0	7875.9	6203.5	5319.6	5237.2
65°	2675.9	2675.9	3829.7	5919.1	10055.8	13114.7	9743.9	5827.0	3734.4	2868.2	2797.1
67.5°	662.5	665.8	985.7	2304.3	6840.1	10466.2	6951.6	2797.1	1315.4	930.8	906.5
70°	413.7	412.1	457.3	623.7	2393.2	6352.1	2842.4	843.5	534.9	471.8	468.6
72.5°	321.6	321.6	344.2	399.1	627.0	2163.7	829.0	468.6	387.8	349.0	349.0
75°	253.7	253.7	269.9	298.9	370.0	557.5	441.1	347.4	300.6	274.7	271.5
77.5°	189.1	192.3	205.2	224.6	252.1	313.5	279.6	261.8	234.3	214.9	208.5
80°	122.8	127.7	143.8	155.1	164.8	206.8	182.6	190.7	177.8	155.1	151.9
82.5°	66.3	67.9	87.3	90.5	93.7	113.1	116.3	121.2	126.0	98.6	92.1
85°	24.2	24.2	29.1	33.9	37.2	40.4	54.9	67.9	71.1	56.6	54.9
87.5°	4.8	4.8	4.8	3.2	3.2	3.2	9.7	17.8	29.1	22.6	22.6
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)