

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: P639227

Luminaire Tested: GWS-SA5B-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16096.6 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

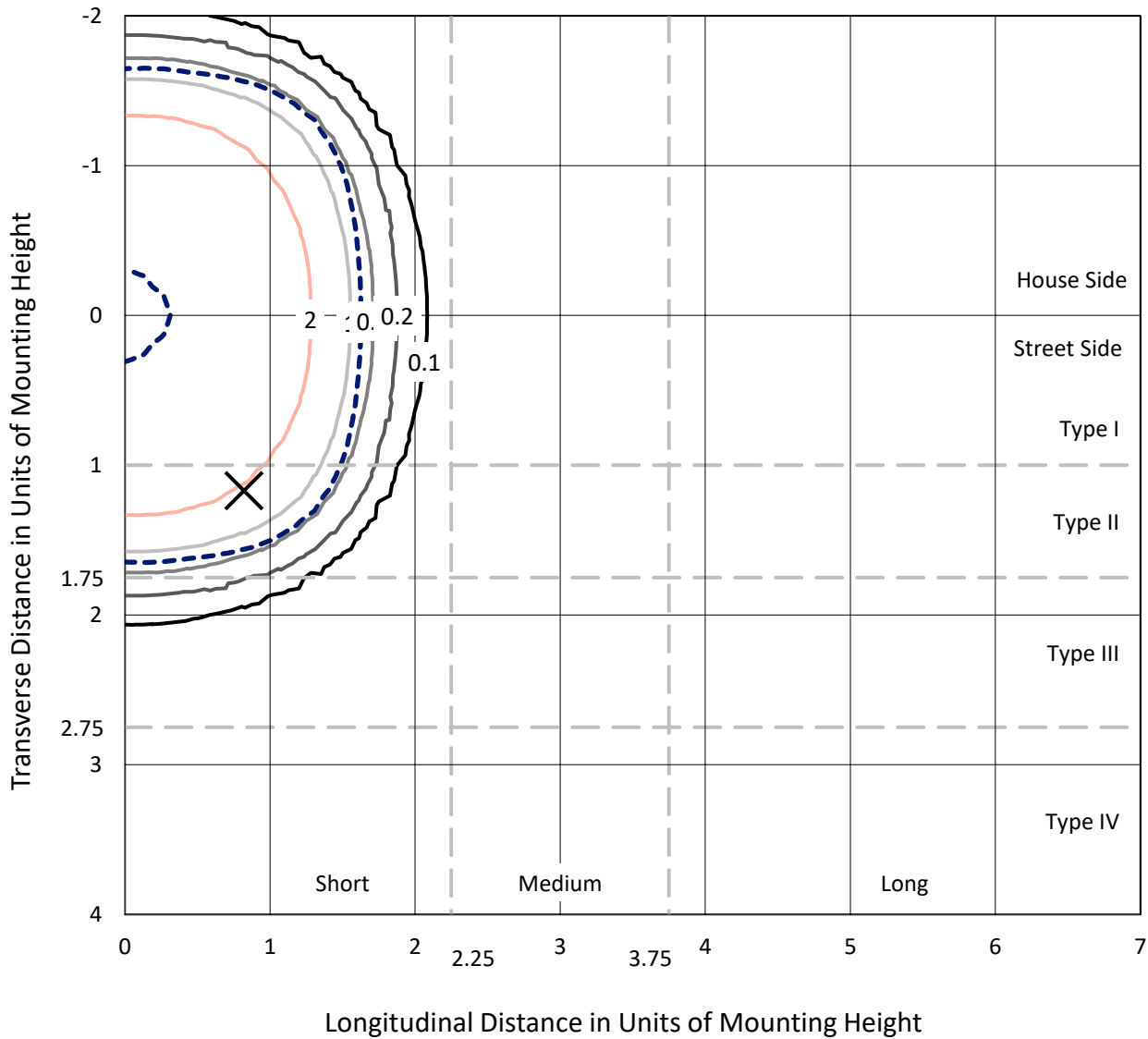
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

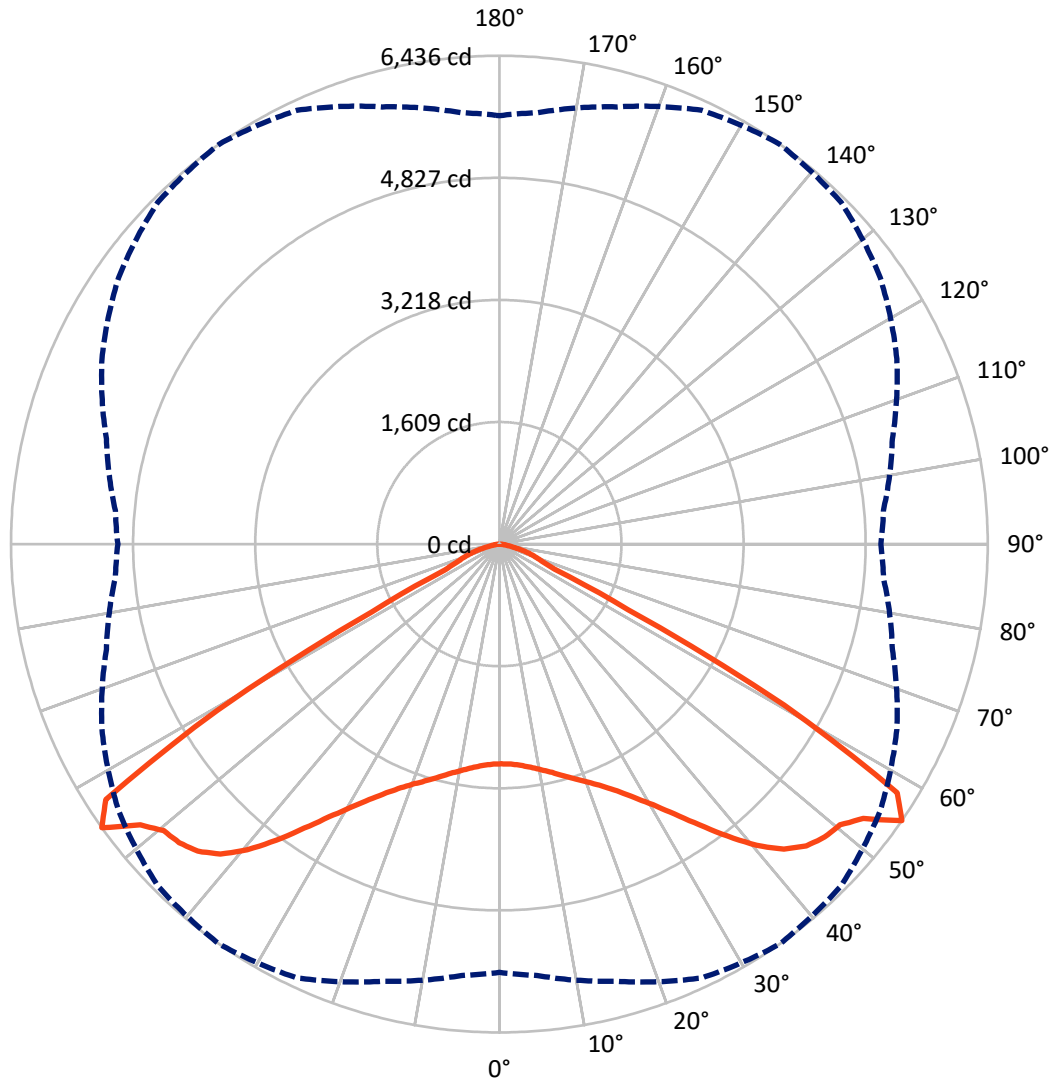
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8048.3	0.0	8048.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8048.3	0.0	8048.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16096.6	0.0	16096.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.5	1.8
10°-20°	899.3	5.6
20°-30°	1664.4	10.3
30°-40°	2784.1	17.3
40°-50°	4242.6	26.4
50°-60°	4752.6	29.5
60°-70°	1124.5	7.0
70°-80°	303.2	1.9
80°-90°	43.6	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°	16096.6	100.0
0°-180°	16096.6	100.0

**Coefficient of Utilization**



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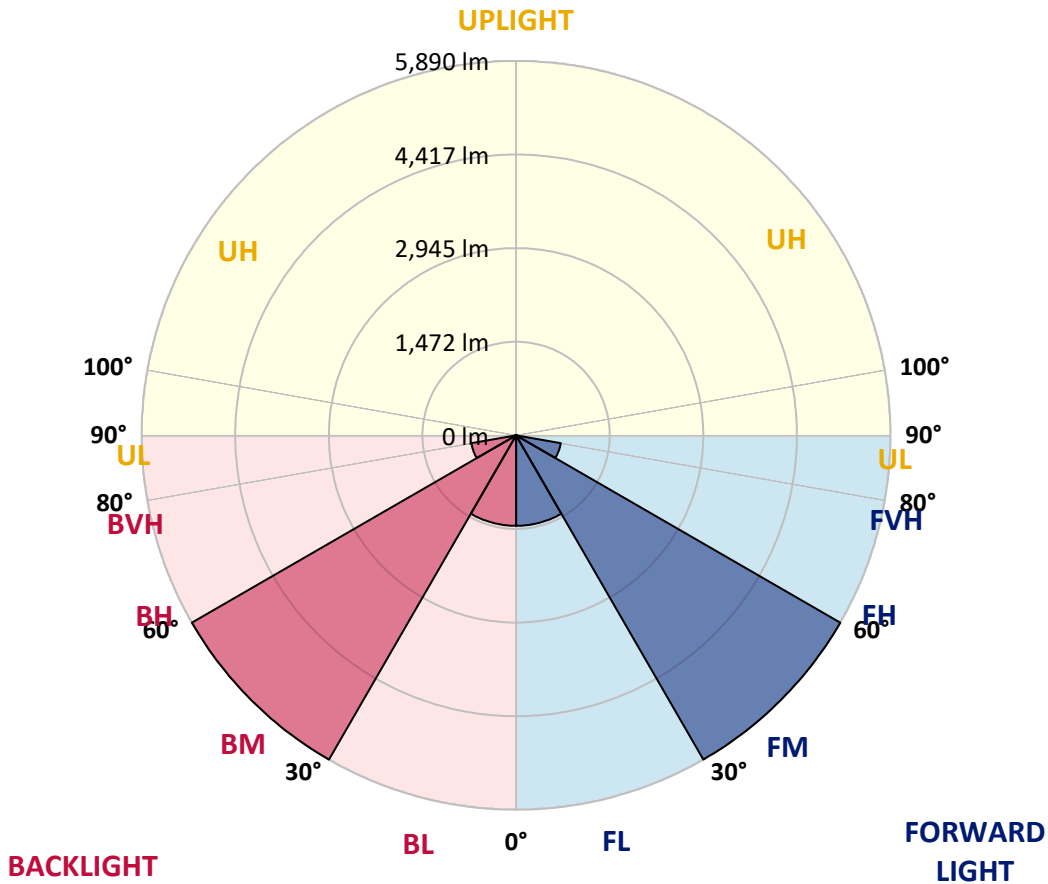
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.0	8.8			
FM (30°-60°)	5889.6	36.6			
FH (60°-80°)	713.8	4.4			G1/1800
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	1423.0	8.8	B3/2500		
BM (30°-60°)	5889.6	36.6	B4/8500		
BH (60°-80°)	713.8	4.4	B2/1000		G1/1800
BVH (80°-90°)	21.8	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8
2.5°	2889.5	2889.5	2894.5	2900.9	2902.2	2914.9	2912.4	2907.3	2904.7	2899.6	2911.1
5°	2921.3	2922.6	2926.4	2930.2	2927.6	2937.8	2934.0	2927.6	2923.8	2917.5	2928.9
7.5°	2963.3	2963.3	2967.1	2972.2	2969.6	2984.9	2977.3	2968.4	2962.0	2954.4	2964.6
10°	3001.5	3004.0	3007.8	3018.0	3023.1	3039.7	3034.6	3021.8	3011.7	3002.7	3014.2
12.5°	3058.8	3061.3	3065.1	3079.1	3088.0	3104.6	3096.9	3079.1	3063.8	3051.1	3063.8
15°	3132.6	3130.0	3140.2	3158.0	3169.5	3184.8	3175.9	3145.3	3124.9	3108.4	3121.1
17.5°	3207.7	3206.4	3216.6	3239.5	3256.0	3276.4	3261.1	3225.5	3203.9	3183.5	3196.2
20°	3289.1	3293.0	3303.1	3324.8	3349.0	3375.7	3363.0	3324.8	3300.6	3277.7	3287.9
22.5°	3389.7	3391.0	3402.4	3430.4	3462.3	3487.7	3480.1	3433.0	3402.4	3378.2	3391.0
25°	3510.6	3509.4	3524.6	3557.7	3602.3	3627.7	3611.2	3559.0	3525.9	3497.9	3508.1
27.5°	3649.4	3648.1	3671.0	3714.3	3777.9	3813.6	3779.2	3714.3	3668.5	3629.0	3637.9
30°	3823.8	3819.9	3845.4	3903.9	3986.7	4046.5	3995.6	3905.2	3845.4	3803.4	3812.3
32.5°	4017.2	4022.3	4054.2	4133.1	4237.4	4315.1	4238.7	4138.2	4058.0	3996.9	4007.1
35°	4229.8	4229.8	4294.7	4392.7	4541.7	4644.8	4526.4	4381.3	4274.4	4190.3	4192.9
37.5°	4466.6	4469.1	4554.4	4689.3	4884.1	5005.0	4844.6	4665.1	4535.3	4444.9	4439.8
40°	4755.5	4763.1	4851.0	5001.2	5220.1	5330.9	5159.0	4983.4	4851.0	4744.1	4733.9
42.5°	5081.4	5083.9	5176.8	5311.8	5496.3	5562.5	5427.6	5283.8	5175.6	5078.8	5068.6
45°	5392.0	5385.6	5465.8	5566.3	5673.3	5679.6	5604.5	5546.0	5451.8	5369.0	5353.8
47.5°	5633.8	5628.7	5701.3	5756.0	5768.7	5706.4	5730.5	5739.5	5630.0	5518.0	5488.7
50°	5781.5	5791.6	5860.4	5890.9	5815.8	5714.0	5805.6	5782.7	5626.2	5479.8	5432.7
52.5°	5870.6	5885.8	6005.5	6083.1	6005.5	5908.7	5921.5	5786.6	5561.3	5367.8	5306.7
55°	5645.3	5706.4	5964.8	6308.4	6435.7	6368.3	6126.4	5778.9	5361.4	5080.1	5027.9
57.5°	4184.0	4280.7	4663.9	5408.5	6182.4	6428.1	5721.6	4844.6	4212.0	3850.5	3819.9
60°	2135.9	2244.1	2550.9	3315.9	4311.3	4657.5	3985.4	3102.0	2465.6	2172.8	2139.7
62.5°	871.9	889.7	990.3	1285.6	1905.5	2198.3	1931.0	1355.6	1018.3	938.1	939.4
65°	686.1	689.9	684.8	702.6	798.1	885.9	818.5	719.2	701.4	710.3	703.9
67.5°	598.3	599.5	595.7	595.7	599.5	595.7	603.3	607.2	609.7	619.9	613.5
70°	500.2	501.5	501.5	504.1	502.8	496.4	507.9	513.0	514.2	520.6	516.8
72.5°	387.0	390.8	393.3	394.6	393.3	389.5	395.9	404.8	403.5	409.9	403.5
75°	262.2	267.3	269.9	274.9	273.7	273.7	281.3	285.1	281.3	286.4	281.3
77.5°	148.9	152.7	160.4	165.5	170.6	174.4	179.5	182.0	180.8	183.3	180.8
80°	86.6	87.8	94.2	96.7	103.1	109.5	114.6	117.1	118.4	119.7	118.4
82.5°	49.6	50.9	53.5	56.0	61.1	66.2	71.3	75.1	75.1	76.4	75.1
85°	24.2	24.2	25.5	26.7	29.3	33.1	36.9	40.7	42.0	42.0	42.0
87.5°	3.8	3.8	5.1	5.1	6.4	7.6	10.2	12.7	14.0	14.0	14.0
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)