

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: P639228

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639228  
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-SA5B-740-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

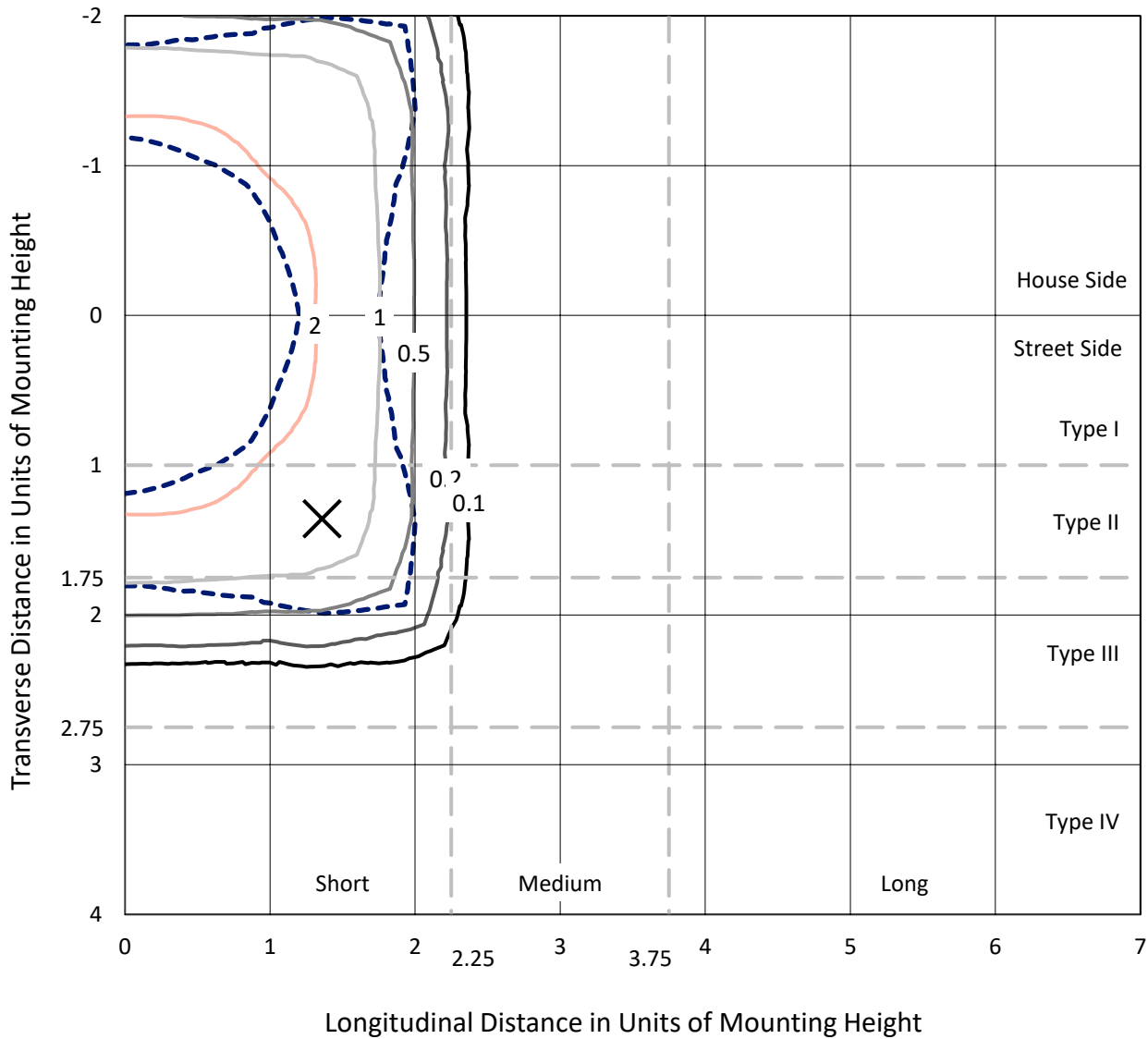
Lumens per Lamp: N/A  
Luminaire Lumens: 18558.3 lumens  
Efficiency: N/A  
Efficacy: 160.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

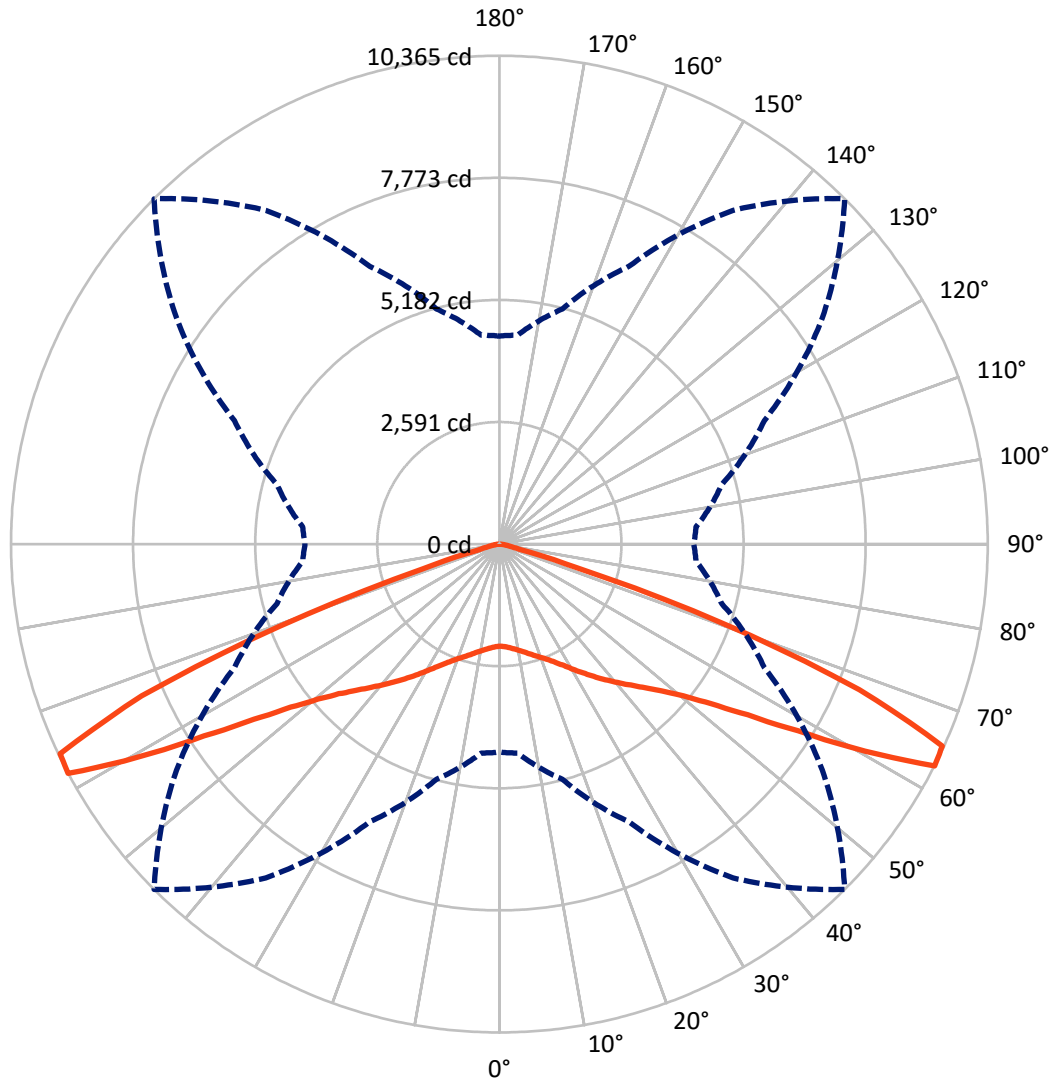
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9279.2	0.0	9279.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9279.2	0.0	9279.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18558.3	0.0	18558.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.4	1.1
10°-20°	685.0	3.7
20°-30°	1296.0	7.0
30°-40°	2181.4	11.8
40°-50°	3485.2	18.8
50°-60°	5617.9	30.3
60°-70°	4583.6	24.7
70°-80°	445.1	2.4
80°-90°	51.8	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°	18558.3	100.0
0°-180°	18558.3	100.0

**Coefficient of Utilization**



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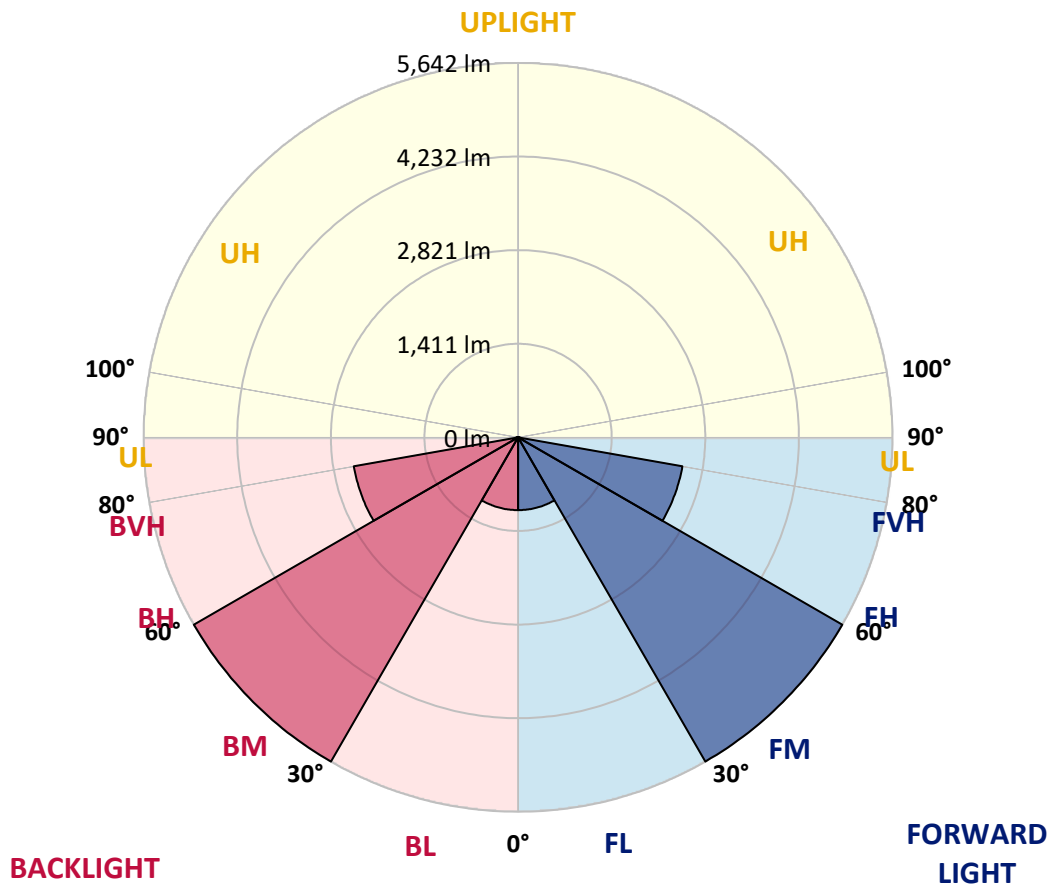
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.7	5.9			
FM (30°-60°)	5642.2	30.4			
FH (60°-80°)	2514.3	13.5			G2/5000
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1096.7	5.9	B3/2500		
BM (30°-60°)	5642.2	30.4	B4/8500		
BH (60°-80°)	2514.3	13.5	B4/5000		G2/5000
BVH (80°-90°)	25.9	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°	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1	2165.1
2.5°	2162.5	2162.5	2167.6	2171.4	2168.9	2179.1	2177.8	2175.3	2174.0	2170.2	2181.6
5°	2191.8	2191.8	2195.6	2199.4	2193.1	2205.8	2200.7	2198.2	2196.9	2191.8	2202.0
7.5°	2224.9	2228.7	2230.0	2236.4	2232.5	2246.5	2242.7	2237.6	2235.1	2228.7	2237.6
10°	2261.8	2264.4	2265.6	2277.1	2278.4	2294.9	2291.1	2284.7	2279.6	2273.3	2286.0
12.5°	2311.5	2312.7	2316.5	2330.5	2334.4	2347.1	2345.8	2336.9	2330.5	2321.6	2335.6
15°	2375.1	2376.4	2382.7	2396.7	2403.1	2418.4	2413.3	2399.3	2390.4	2380.2	2391.6
17.5°	2441.3	2446.4	2452.7	2466.7	2475.6	2493.5	2487.1	2471.8	2464.2	2454.0	2461.6
20°	2526.6	2527.8	2531.6	2546.9	2553.3	2573.7	2574.9	2559.7	2555.8	2545.7	2557.1
22.5°	2620.7	2622.0	2625.8	2642.4	2653.8	2666.6	2674.2	2665.3	2658.9	2646.2	2660.2
25°	2725.1	2737.8	2741.7	2762.0	2774.8	2782.4	2791.3	2787.5	2778.6	2763.3	2769.7
27.5°	2871.5	2874.0	2880.4	2903.3	2911.0	2918.6	2927.5	2928.8	2916.0	2898.2	2907.1
30°	3038.2	3037.0	3051.0	3068.8	3075.1	3081.5	3094.2	3101.9	3085.3	3066.2	3075.1
32.5°	3208.8	3224.1	3241.9	3258.4	3254.6	3257.2	3277.5	3291.5	3268.6	3234.2	3241.9
35°	3401.0	3411.2	3434.1	3458.3	3453.2	3449.4	3462.1	3476.1	3444.3	3399.7	3411.2
37.5°	3598.3	3613.6	3647.9	3677.2	3669.6	3651.7	3665.7	3681.0	3650.5	3599.6	3594.5
40°	3818.5	3842.7	3892.3	3916.5	3896.1	3861.8	3885.9	3922.8	3892.3	3833.8	3819.7
42.5°	4076.9	4106.1	4155.8	4192.7	4148.1	4092.1	4132.9	4186.3	4178.7	4101.0	4076.9
45°	4396.3	4415.4	4476.5	4494.3	4428.2	4350.5	4424.3	4505.8	4486.7	4402.7	4370.9
47.5°	4743.8	4773.1	4826.6	4859.6	4752.7	4656.0	4759.1	4868.6	4848.2	4769.3	4732.4
50°	5186.8	5224.9	5295.0	5323.0	5175.3	5064.6	5196.9	5335.7	5296.2	5190.6	5142.2
52.5°	5669.2	5699.7	5819.4	5875.4	5736.6	5617.0	5732.8	5869.0	5785.0	5645.0	5580.1
55°	6094.3	6124.8	6300.5	6486.3	6480.0	6397.2	6455.8	6458.3	6230.5	5998.8	5930.1
57.5°	6185.9	6216.5	6551.2	7037.5	7381.1	7476.6	7304.7	6943.3	6369.2	5963.2	5885.5
60°	5697.2	5731.5	6263.6	7152.0	8282.3	8920.0	8128.3	6933.1	5940.3	5390.4	5316.6
62.5°	4414.2	4451.1	5166.4	6500.3	8646.3	10364.6	8367.6	6203.8	4886.4	4190.1	4125.2
65°	2107.8	2107.8	3016.6	4662.4	7920.8	10330.3	7675.1	4589.8	2941.5	2259.3	2203.3
67.5°	521.9	524.4	776.4	1815.0	5387.9	8244.1	5475.7	2203.3	1036.1	733.1	714.1
70°	325.8	324.6	360.2	491.3	1885.1	5003.5	2238.9	664.4	421.3	371.7	369.1
72.5°	253.3	253.3	271.1	314.4	493.9	1704.3	653.0	369.1	305.5	274.9	274.9
75°	199.8	199.8	212.6	235.5	291.5	439.1	347.5	273.7	236.7	216.4	213.8
77.5°	148.9	151.5	161.6	176.9	198.6	246.9	220.2	206.2	184.6	169.3	164.2
80°	96.7	100.6	113.3	122.2	129.8	162.9	143.8	150.2	140.0	122.2	119.6
82.5°	52.2	53.5	68.7	71.3	73.8	89.1	91.6	95.5	99.3	77.6	72.6
85°	19.1	19.1	22.9	26.7	29.3	31.8	43.3	53.5	56.0	44.5	43.3
87.5°	3.8	3.8	3.8	2.5	2.5	2.5	7.6	14.0	22.9	17.8	17.8
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)