

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: P638844

Luminaire Tested: GWS-SA4F-760-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

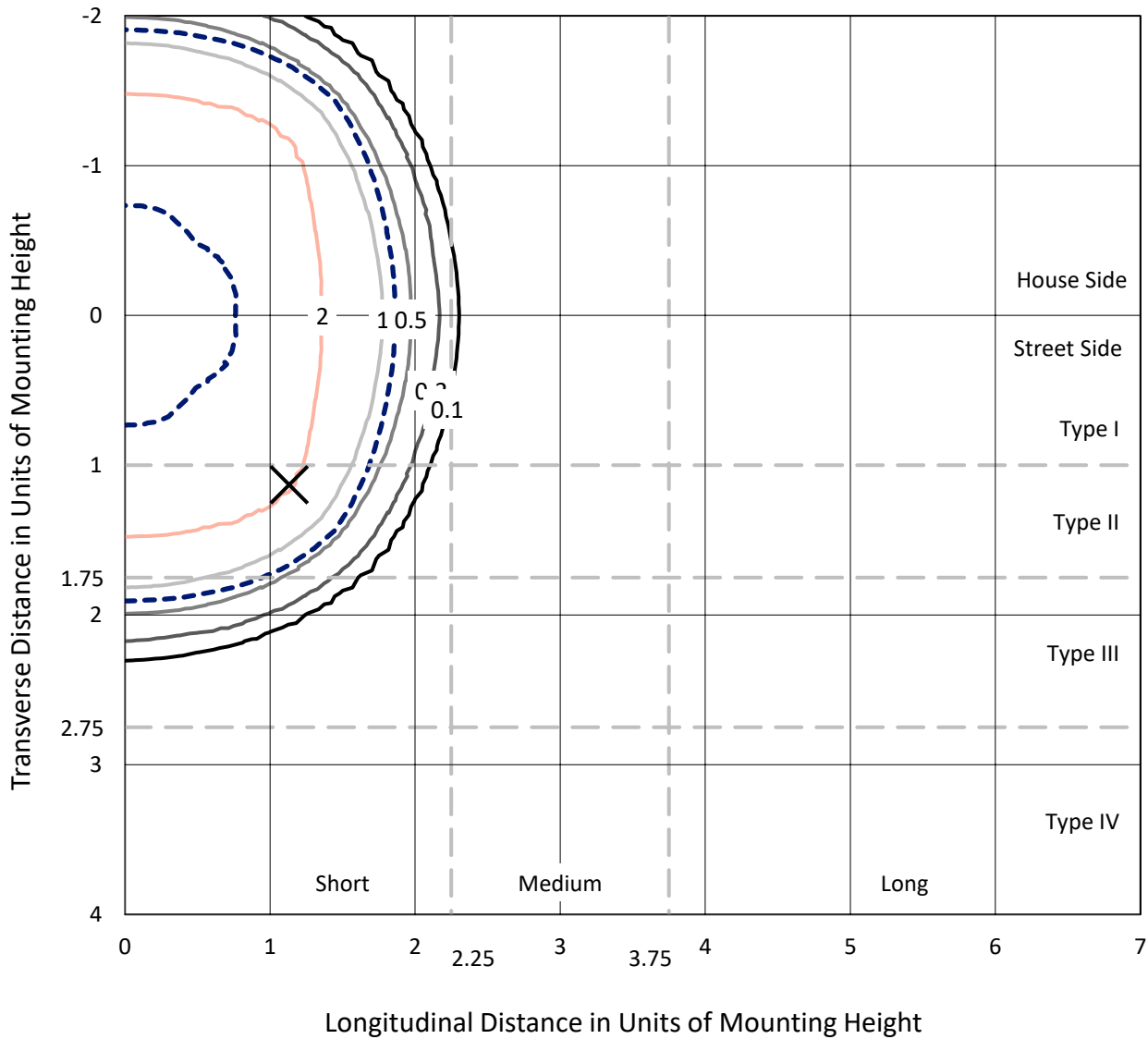
Lumens per Lamp: N/A  
Luminaire Lumens: 18064.9 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

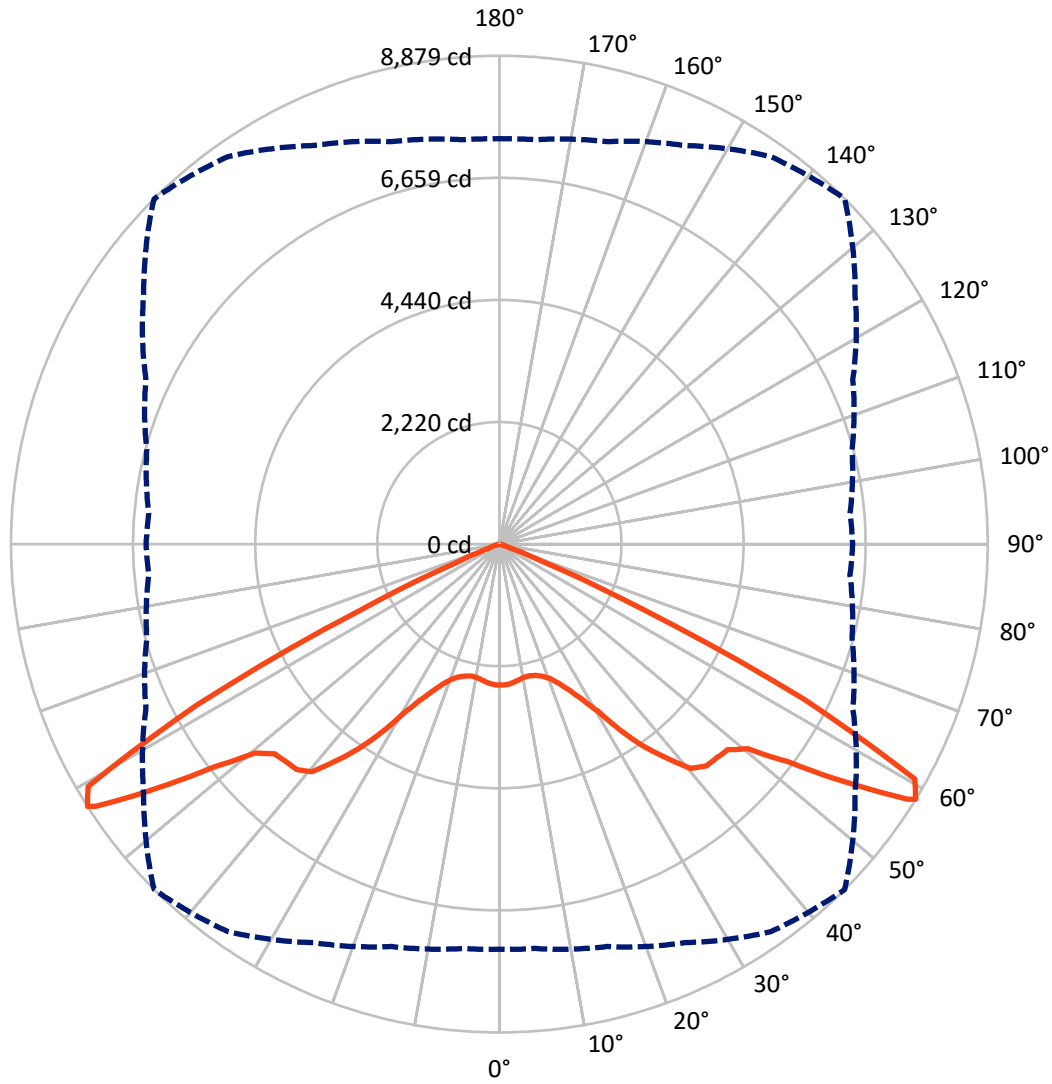
✕ Max cd  
 - - - 1/2 Max cd



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 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9032.5	0.0	9032.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9032.5	0.0	9032.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18064.9	0.0	18064.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.0	1.3
10°-20°	707.2	3.9
20°-30°	1337.6	7.4
30°-40°	2638.1	14.6
40°-50°	4174.7	23.1
50°-60°	6136.6	34.0
60°-70°	2739.1	15.2
70°-80°	91.8	0.5
80°-90°	0.8	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°	18064.9	100.0
0°-180°	18064.9	100.0

**Coefficient of Utilization**



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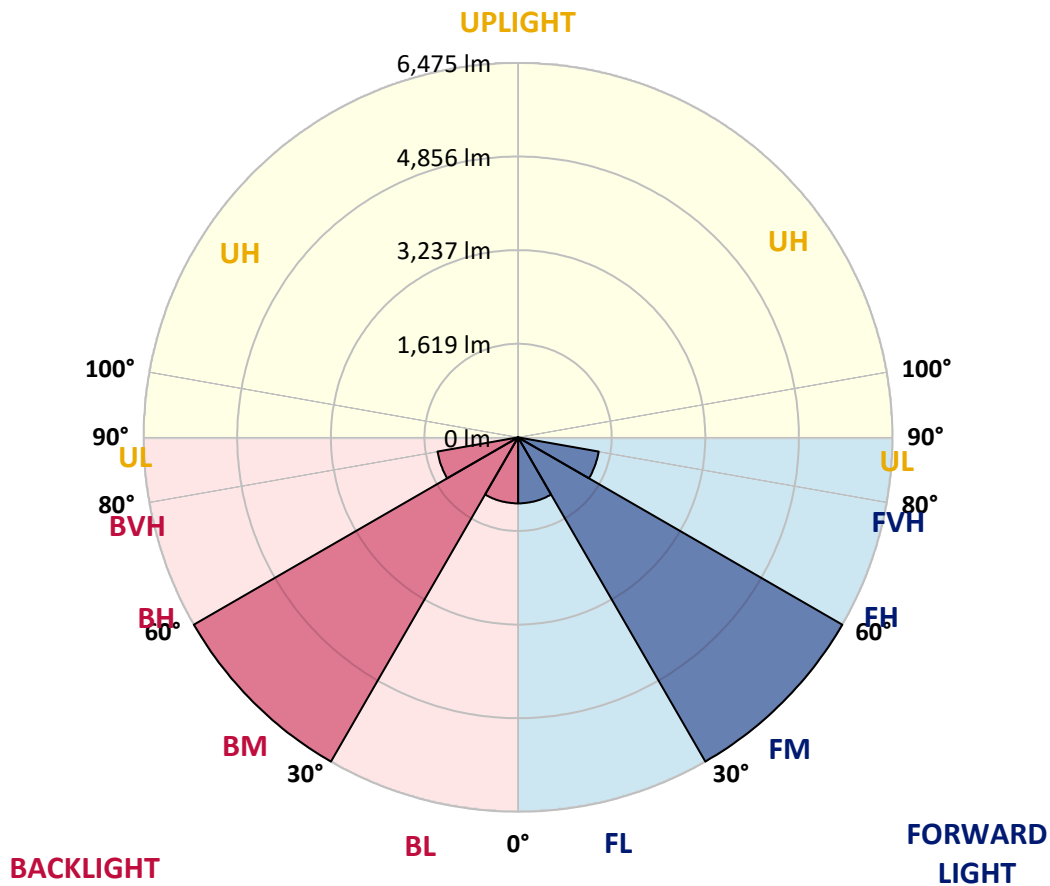
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.9	6.3			
FM (30°-60°)	6474.7	35.8			
FH (60°-80°)	1415.4	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1141.9	6.3	B3/2500		
BM (30°-60°)	6474.7	35.8	B4/8500		
BH (60°-80°)	1415.4	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.4	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8	2561.8
2.5°	2537.2	2542.2	2547.1	2549.5	2552.0	2559.4	2561.8	2554.5	2554.5	2539.7	2556.9
5°	2524.9	2529.9	2534.8	2532.3	2532.3	2532.3	2529.9	2520.0	2517.5	2502.8	2520.0
7.5°	2502.8	2507.7	2507.7	2500.3	2495.4	2495.4	2492.9	2480.6	2478.2	2463.4	2480.6
10°	2485.6	2488.0	2485.6	2470.8	2460.9	2460.9	2458.5	2453.6	2456.0	2446.2	2460.9
12.5°	2495.4	2497.9	2488.0	2468.3	2456.0	2453.6	2446.2	2438.8	2446.2	2443.7	2458.5
15°	2527.4	2529.9	2512.6	2488.0	2478.2	2478.2	2458.5	2438.8	2448.6	2451.1	2468.3
17.5°	2566.8	2566.8	2544.6	2522.5	2524.9	2524.9	2492.9	2458.5	2460.9	2470.8	2488.0
20°	2613.5	2613.5	2591.4	2586.5	2603.7	2606.1	2566.8	2512.6	2500.3	2507.7	2527.4
22.5°	2697.2	2697.2	2680.0	2692.3	2731.6	2744.0	2684.9	2608.6	2579.1	2584.0	2603.7
25°	2827.6	2827.6	2822.7	2852.2	2908.8	2935.9	2857.2	2756.3	2707.0	2699.7	2721.8
27.5°	3046.6	3049.1	3041.7	3086.0	3157.4	3189.4	3081.1	2948.2	2889.1	2876.8	2899.0
30°	3329.7	3329.7	3332.1	3393.6	3487.2	3529.0	3386.3	3231.2	3162.3	3122.9	3152.5
32.5°	3644.7	3649.6	3674.2	3777.6	3942.4	4028.6	3819.4	3602.8	3492.1	3450.2	3482.2
35°	4163.9	4117.2	4087.6	4163.9	4402.6	4515.8	4247.6	3994.1	3910.4	3905.5	3986.7
37.5°	4678.3	4651.2	4589.7	4668.4	4882.5	4934.2	4638.9	4427.2	4368.2	4400.2	4481.4
40°	5086.8	5037.6	4956.3	5030.2	5310.7	5362.4	4998.2	4789.0	4766.8	4838.2	4949.0
42.5°	5409.2	5340.2	5232.0	5249.2	5475.6	5512.5	5190.1	5032.6	5047.4	5136.0	5261.5
45°	5554.4	5500.2	5404.2	5396.9	5539.6	5542.0	5288.6	5207.4	5246.7	5315.6	5414.1
47.5°	5615.9	5591.3	5537.1	5524.8	5606.0	5586.3	5428.8	5394.4	5431.3	5451.0	5507.6
50°	5768.5	5768.5	5775.8	5785.7	5869.4	5849.7	5738.9	5699.5	5652.8	5583.9	5601.1
52.5°	6196.7	6213.9	6285.3	6364.0	6516.6	6580.6	6400.9	6172.0	5948.1	5798.0	5798.0
55°	6969.4	6986.6	7070.3	7203.2	7483.7	7636.3	7218.0	6713.5	6405.8	6201.6	6228.7
57.5°	7395.1	7414.8	7587.1	7946.4	8490.3	8748.7	7850.4	7102.3	6671.6	6437.8	6457.5
58°	7368.1	7380.4	7574.8	7995.6	8601.0	8879.1	7894.7	7090.0	6637.2	6398.5	6423.1
60°	6546.1	6528.9	6839.0	7439.4	8293.4	8677.3	7454.2	6472.3	5945.6	5702.0	5714.3
62.5°	4279.6	4289.4	4557.7	5185.2	5849.7	6211.4	5207.4	4476.5	4053.2	3905.5	3868.6
65°	1786.6	1754.7	1919.5	2269.0	2667.7	2869.5	2465.9	2086.9	1826.0	1727.6	1754.7
67.5°	460.2	447.9	457.7	573.4	701.4	829.3	696.4	531.6	462.7	467.6	467.6
70°	260.9	246.1	199.3	184.6	179.6	179.6	179.6	179.6	206.7	243.6	251.0
72.5°	196.9	184.6	145.2	125.5	110.7	103.4	108.3	125.5	150.1	182.1	187.0
75°	98.4	98.4	88.6	83.7	73.8	68.9	71.4	78.8	91.1	103.4	100.9
77.5°	19.7	22.1	24.6	29.5	24.6	24.6	24.6	29.5	29.5	32.0	29.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)