

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: P638789

Luminaire Tested: GWS-SA4F-750-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638789  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18315.9 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

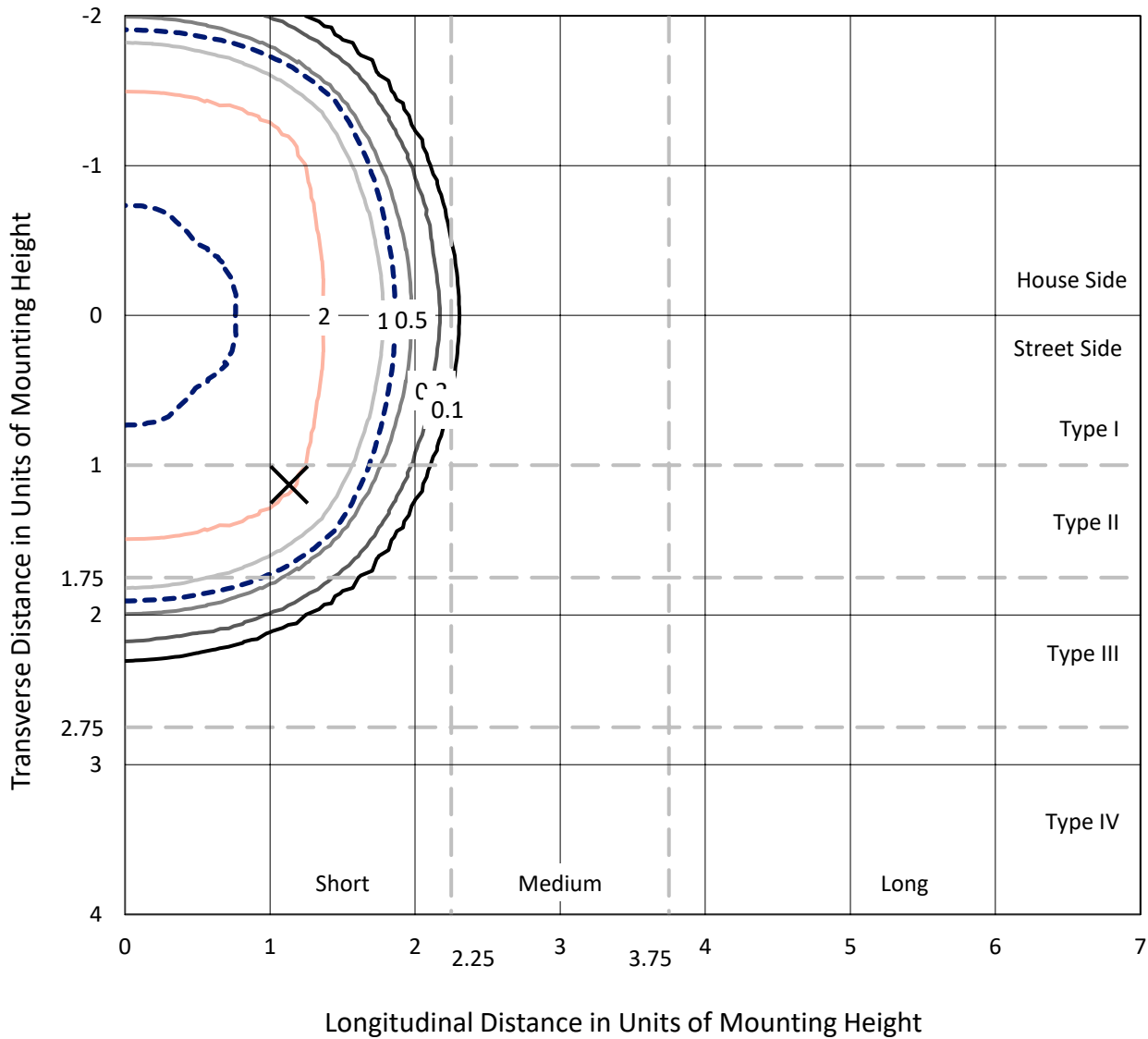


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### Iso-Footcandle Lines of Horizontal Illumination

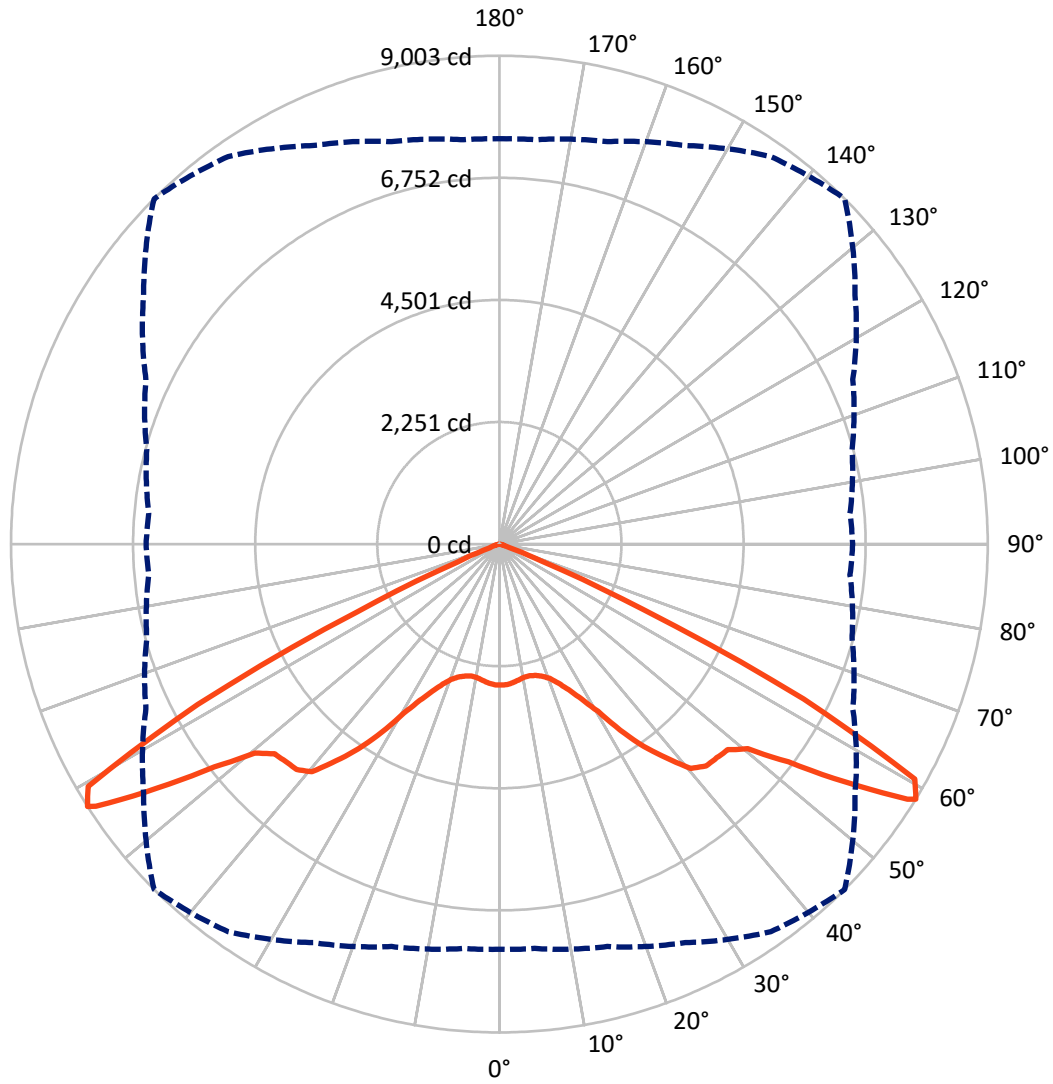
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	9157.9	0.0	9157.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9157.9	0.0	9157.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18315.9	0.0	18315.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.4	1.3
10°-20°	717.1	3.9
20°-30°	1356.2	7.4
30°-40°	2674.7	14.6
40°-50°	4232.7	23.1
50°-60°	6221.8	34.0
60°-70°	2777.2	15.2
70°-80°	93.0	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°	18315.9	100.0
0°-180°	18315.9	100.0

**Coefficient of Utilization**



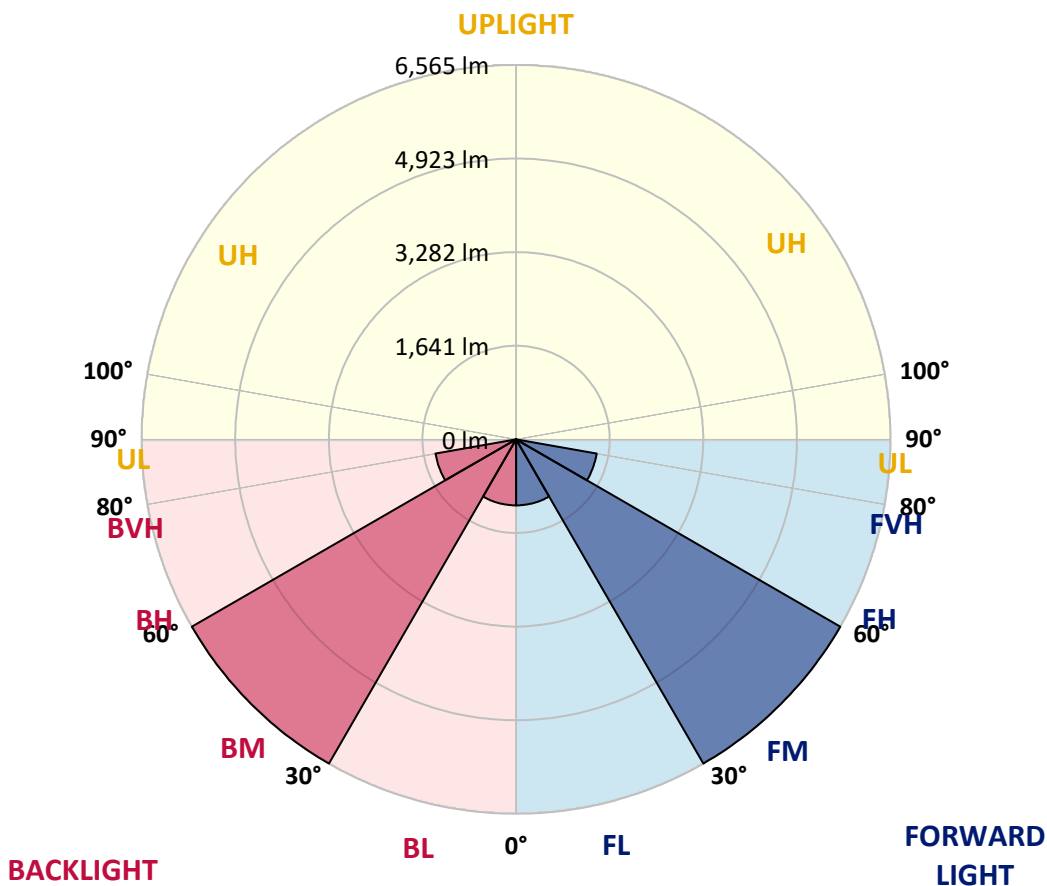
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.8	6.3			
FM (30°-60°)	6564.6	35.8			
FH (60°-80°)	1435.1	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1157.8	6.3	B3/2500		
BM (30°-60°)	6564.6	35.8	B4/8500		
BH (60°-80°)	1435.1	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°	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4
2.5°	2572.5	2577.5	2582.5	2585.0	2587.5	2594.9	2597.4	2590.0	2590.0	2575.0	2592.4
5°	2560.0	2565.0	2570.0	2567.5	2567.5	2567.5	2565.0	2555.0	2552.5	2537.6	2555.0
7.5°	2537.6	2542.5	2542.5	2535.1	2530.1	2530.1	2527.6	2515.1	2512.6	2497.6	2515.1
10°	2520.1	2522.6	2520.1	2505.1	2495.1	2495.1	2492.6	2487.7	2490.1	2480.2	2495.1
12.5°	2530.1	2532.6	2522.6	2502.6	2490.1	2487.7	2480.2	2472.7	2480.2	2477.7	2492.6
15°	2562.5	2565.0	2547.5	2522.6	2512.6	2512.6	2492.6	2472.7	2482.7	2485.2	2502.6
17.5°	2602.4	2602.4	2580.0	2557.5	2560.0	2560.0	2527.6	2492.6	2495.1	2505.1	2522.6
20°	2649.8	2649.8	2627.4	2622.4	2639.9	2642.4	2602.4	2547.5	2535.1	2542.5	2562.5
22.5°	2734.7	2734.7	2717.2	2729.7	2769.6	2782.1	2722.2	2644.8	2614.9	2619.9	2639.9
25°	2866.9	2866.9	2861.9	2891.9	2949.3	2976.7	2896.9	2794.6	2744.7	2737.2	2759.6
27.5°	3089.0	3091.5	3084.0	3128.9	3201.3	3233.7	3123.9	2989.2	2929.3	2916.8	2939.3
30°	3375.9	3375.9	3378.4	3440.8	3535.6	3578.0	3433.3	3276.1	3206.3	3166.3	3196.3
32.5°	3695.3	3700.3	3725.2	3830.0	3997.2	4084.5	3872.5	3652.9	3540.6	3498.2	3530.6
35°	4221.8	4174.4	4144.4	4221.8	4463.8	4578.6	4306.6	4049.6	3964.8	3959.8	4042.1
37.5°	4743.3	4715.8	4653.4	4733.3	4950.4	5002.8	4703.3	4488.8	4428.9	4461.3	4543.6
40°	5157.4	5107.5	5025.2	5100.1	5384.5	5436.9	5067.6	4855.5	4833.1	4905.4	5017.7
42.5°	5484.3	5414.4	5304.7	5322.1	5551.7	5589.1	5262.2	5102.6	5117.5	5207.4	5334.6
45°	5631.5	5576.6	5479.3	5471.8	5616.6	5619.1	5362.1	5279.7	5319.6	5389.5	5489.3
47.5°	5693.9	5669.0	5614.1	5601.6	5683.9	5664.0	5504.3	5469.3	5506.8	5526.7	5584.1
50°	5848.6	5848.6	5856.1	5866.1	5950.9	5930.9	5818.7	5778.7	5731.3	5661.5	5678.9
52.5°	6282.8	6300.2	6372.6	6452.4	6607.1	6672.0	6489.9	6257.8	6030.7	5878.5	5878.5
55°	7066.2	7083.7	7168.5	7303.3	7587.7	7742.4	7318.2	6806.7	6494.8	6287.7	6315.2
57.5°	7497.9	7517.9	7692.5	8056.8	8608.2	8870.2	7959.5	7201.0	6764.3	6527.3	6547.2
58°	7470.4	7482.9	7680.0	8106.7	8720.5	9002.5	8004.4	7188.5	6729.4	6487.4	6512.3
60°	6637.1	6619.6	6934.0	7542.8	8408.6	8797.9	7557.8	6562.2	6028.3	5781.2	5793.7
62.5°	4339.0	4349.0	4621.0	5257.3	5930.9	6297.7	5279.7	4538.7	4109.5	3959.8	3922.4
65°	1811.5	1779.0	1946.2	2300.5	2704.7	2909.3	2500.1	2115.9	1851.4	1751.6	1779.0
67.5°	466.6	454.1	464.1	581.4	711.1	840.9	706.1	538.9	469.1	474.1	474.1
70°	264.5	249.5	202.1	187.1	182.1	182.1	182.1	182.1	209.6	247.0	254.5
72.5°	199.6	187.1	147.2	127.3	112.3	104.8	109.8	127.3	152.2	184.6	189.6
75°	99.8	99.8	89.8	84.8	74.9	69.9	72.4	79.8	92.3	104.8	102.3
77.5°	20.0	22.5	25.0	29.9	25.0	25.0	25.0	29.9	29.9	32.4	29.9
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)