

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: P638736

Luminaire Tested: GWS-SA4F-740-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

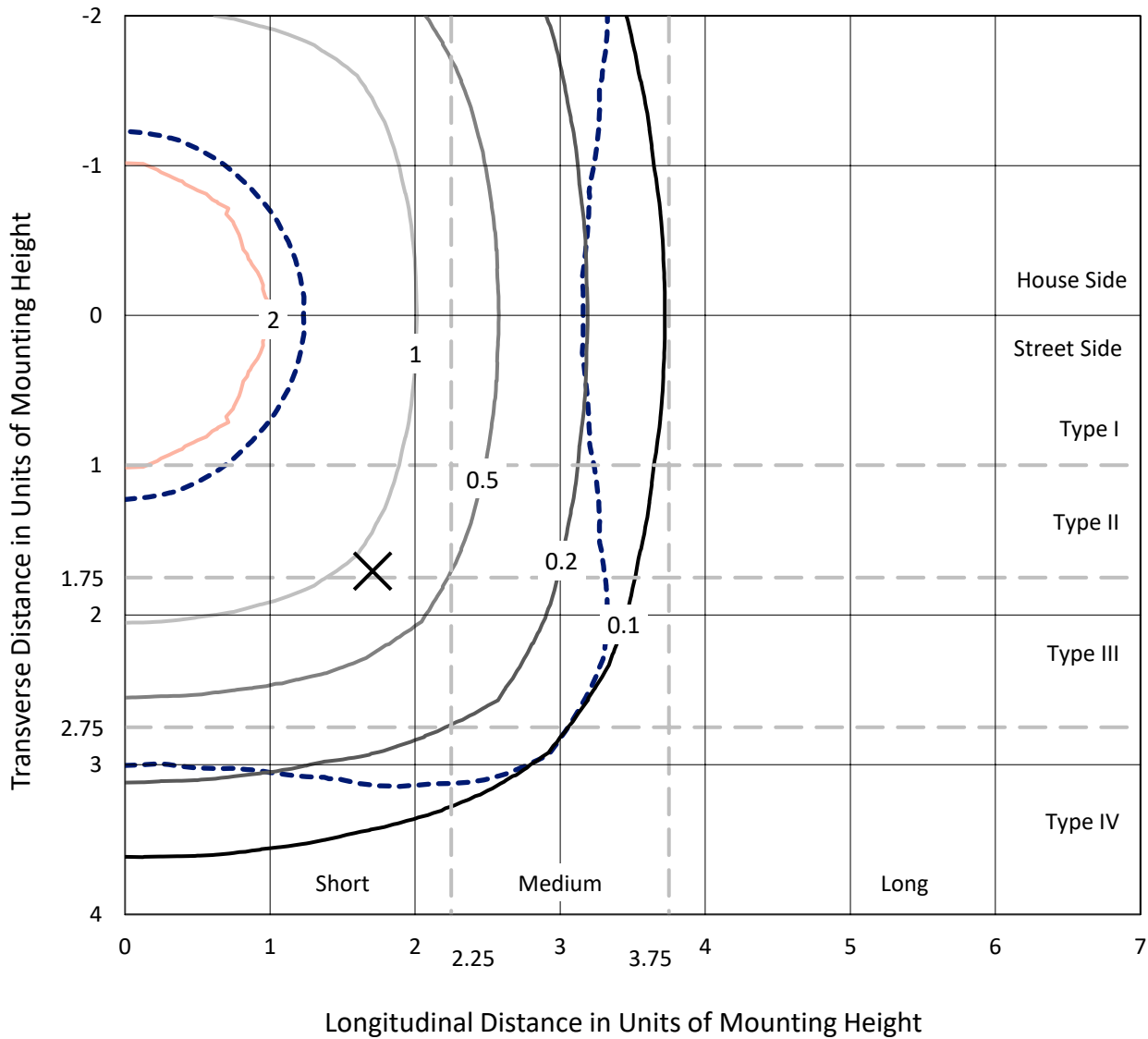
Lumens per Lamp: N/A  
Luminaire Lumens: 34494.1 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

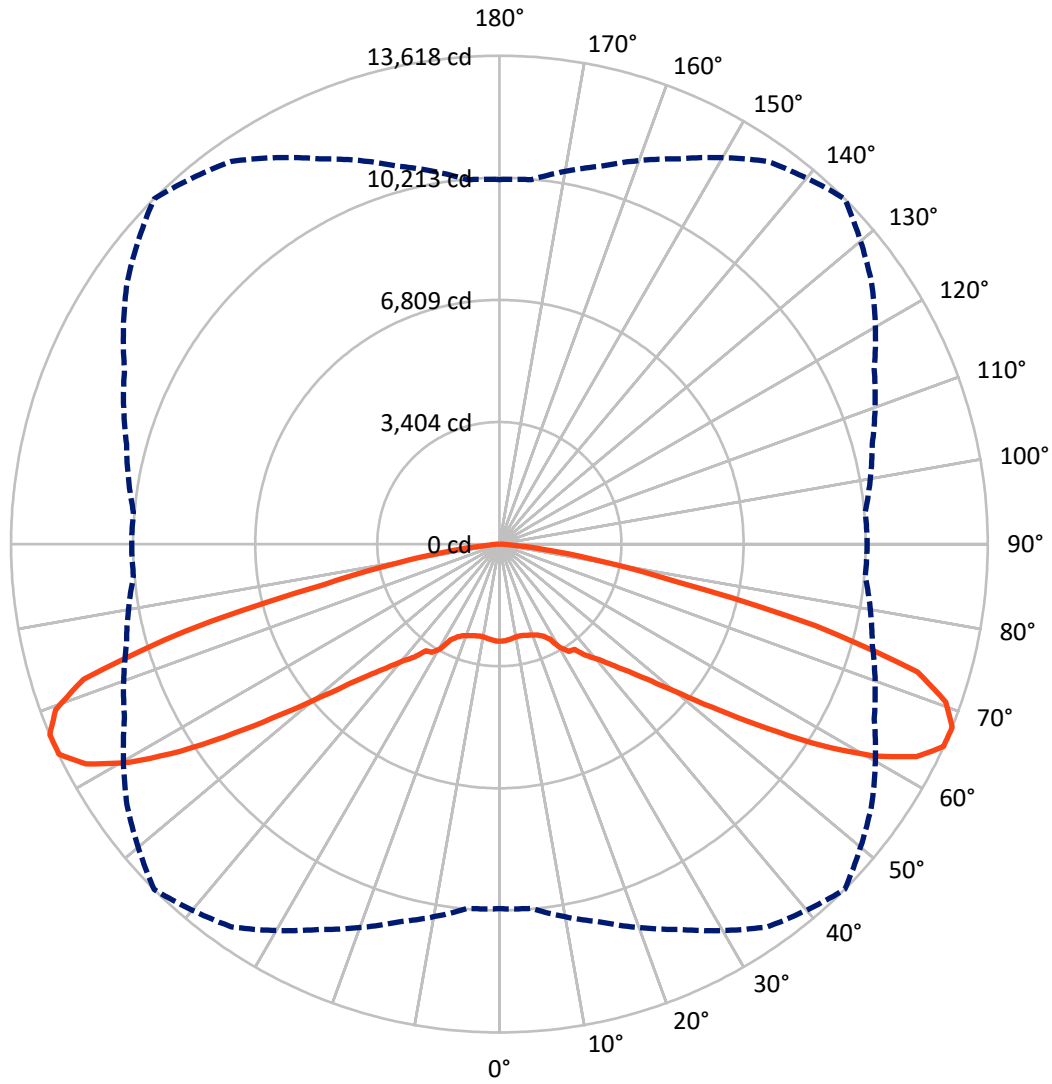
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17247.1	0.0	17247.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17247.1	0.0	17247.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34494.1	0.0	34494.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	0.7
10°-20°	753.7	2.2
20°-30°	1352.1	3.9
30°-40°	2284.0	6.6
40°-50°	4013.0	11.6
50°-60°	7741.2	22.4
60°-70°	11231.4	32.6
70°-80°	6426.1	18.6
80°-90°	438.6	1.3
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°	34494.1	100.0
0°-180°	34494.1	100.0

**Coefficient of Utilization**



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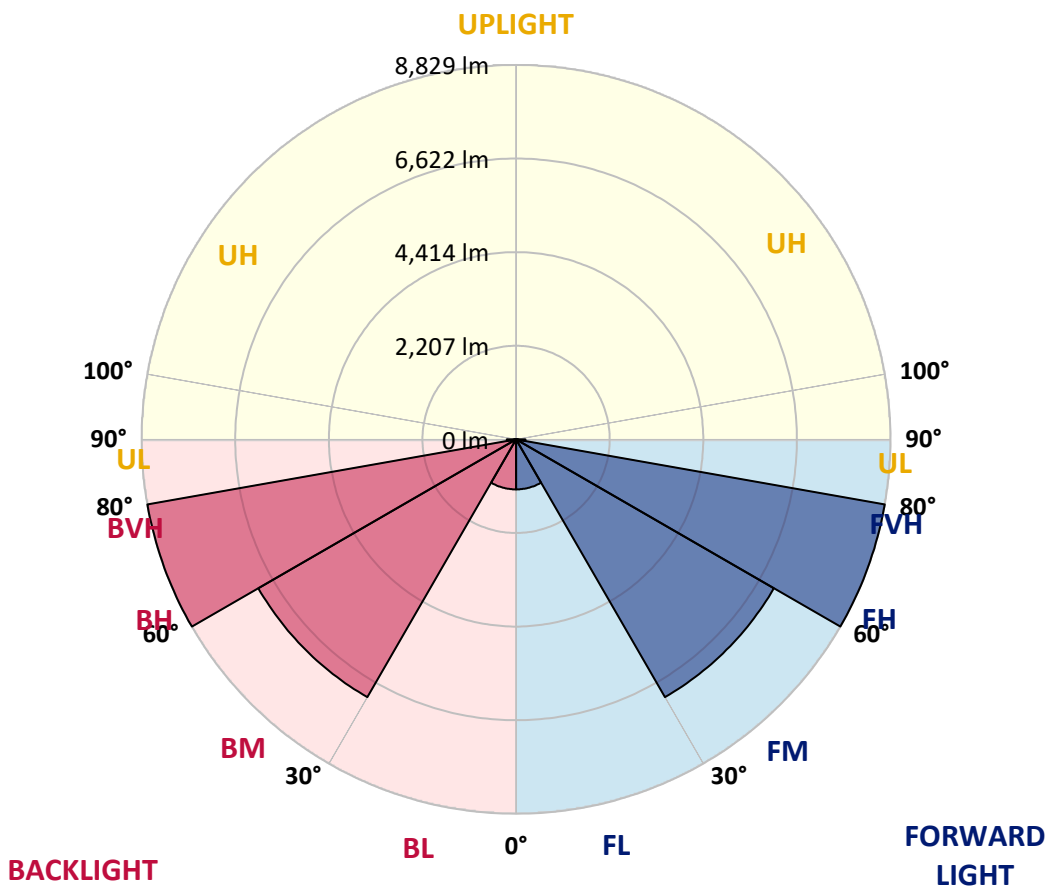
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.9	3.4			
FM (30°-60°)	7019.1	20.3			
FH (60°-80°)	8828.8	25.6			G4/12000
FVH (80°-90°)	219.3	0.6			G2/225
BL (0°-30°)	1179.9	3.4	B3/2500		
BM (30°-60°)	7019.1	20.3	B4/8500		
BH (60°-80°)	8828.8	25.6	B5		G4/12000
BVH (80°-90°)	219.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0	2705.0
2.5°	2683.1	2685.5	2690.4	2690.4	2695.3	2702.6	2705.0	2700.2	2702.6	2690.4	2702.6
5°	2675.8	2678.2	2680.6	2675.8	2675.8	2678.2	2678.2	2673.3	2675.8	2663.6	2675.8
7.5°	2658.7	2661.1	2661.1	2653.8	2646.5	2651.4	2651.4	2646.5	2648.9	2636.7	2651.4
10°	2644.1	2644.1	2641.6	2627.0	2619.7	2627.0	2629.4	2631.9	2641.6	2631.9	2648.9
12.5°	2653.8	2653.8	2646.5	2627.0	2614.8	2619.7	2624.5	2629.4	2646.5	2644.1	2663.6
15°	2680.6	2683.1	2663.6	2641.6	2634.3	2641.6	2636.7	2634.3	2656.3	2663.6	2685.5
17.5°	2702.6	2702.6	2678.2	2656.3	2658.7	2670.9	2661.1	2648.9	2670.9	2685.5	2709.9
20°	2722.1	2719.7	2692.8	2678.2	2688.0	2705.0	2697.7	2680.6	2695.3	2712.4	2734.3
22.5°	2770.9	2768.5	2739.2	2731.9	2741.6	2758.7	2751.4	2736.8	2753.8	2778.2	2805.0
25°	2909.9	2905.1	2861.1	2836.8	2831.9	2844.1	2841.6	2836.8	2863.6	2892.9	2924.6
27.5°	3095.3	3092.9	3061.2	3036.8	3005.1	2995.3	3002.6	3024.6	3063.6	3085.6	3112.4
30°	3188.0	3188.0	3183.1	3222.1	3290.4	3356.3	3305.1	3222.1	3188.0	3178.2	3205.1
32.5°	3310.0	3322.2	3305.1	3349.0	3463.6	3561.2	3463.6	3329.5	3305.1	3305.1	3334.3
35°	3590.5	3595.3	3568.5	3561.2	3597.8	3610.0	3563.6	3514.8	3541.7	3546.6	3583.1
37.5°	3814.9	3814.9	3802.7	3822.2	3897.8	3944.1	3868.5	3780.7	3788.0	3792.9	3839.3
40°	4161.2	4171.0	4141.7	4139.3	4168.5	4210.0	4129.5	4073.4	4112.4	4124.6	4195.4
42.5°	4593.0	4593.0	4549.1	4536.9	4556.4	4600.3	4524.7	4488.1	4539.3	4549.1	4590.5
45°	5107.6	5119.8	5061.3	5039.3	5049.1	5063.7	5010.1	4993.0	5041.8	5063.7	5136.9
47.5°	5734.5	5746.7	5695.5	5693.0	5683.3	5693.0	5641.8	5632.0	5671.1	5654.0	5732.1
50°	6507.7	6529.7	6485.8	6546.7	6539.4	6568.7	6498.0	6446.7	6446.7	6400.4	6444.3
52.5°	7373.6	7417.5	7439.5	7541.9	7620.0	7693.1	7576.1	7495.6	7378.5	7283.4	7402.9
55°	8317.6	8305.4	8444.4	8668.8	8898.1	9071.3	8842.0	8588.3	8398.1	8200.5	8246.8
57.5°	9144.5	9185.9	9368.9	9778.6	10232.3	10598.2	10186.0	9698.1	9266.4	8983.5	9022.5
60°	9832.3	9866.4	10110.4	10700.6	11493.4	11998.3	11344.6	10539.7	9912.8	9522.5	9564.0
62.5°	10466.5	10498.2	10744.6	11395.8	12395.9	13054.4	12210.5	11110.4	10412.8	10020.1	10044.5
65°	10832.4	10851.9	11188.5	11873.9	12927.6	13608.1	12656.9	11522.6	10837.2	10437.2	10451.9
67.5°	10166.5	10198.2	10908.0	11854.4	13030.1	13617.9	12676.4	11534.8	10764.1	10242.1	10254.3
70°	8020.0	7993.2	8839.6	10466.5	12442.2	13208.1	12112.9	10668.9	9478.6	8749.3	8737.1
72.5°	6115.0	6122.3	6593.1	7707.8	10144.5	12188.5	10688.5	8590.8	7307.8	6754.1	6732.1
75°	4434.4	4502.7	4885.7	5702.8	7095.6	9110.3	8046.8	6366.2	5507.6	5175.9	5127.1
77.5°	1997.7	2085.5	2619.7	3580.7	4744.2	5034.5	5054.0	4322.2	3261.2	2709.9	2624.5
80°	583.0	624.4	802.5	1373.3	2209.9	2856.3	2268.4	1907.4	1187.9	931.8	887.9
82.5°	246.4	280.5	343.9	380.5	641.5	1324.5	824.4	524.4	487.8	395.1	361.0
85°	104.9	112.2	143.9	153.7	207.3	282.9	261.0	236.6	226.8	175.6	161.0
87.5°	43.9	43.9	43.9	39.0	36.6	39.0	53.7	68.3	90.2	70.7	65.9
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)