

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: P638846

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638846  
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-760-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

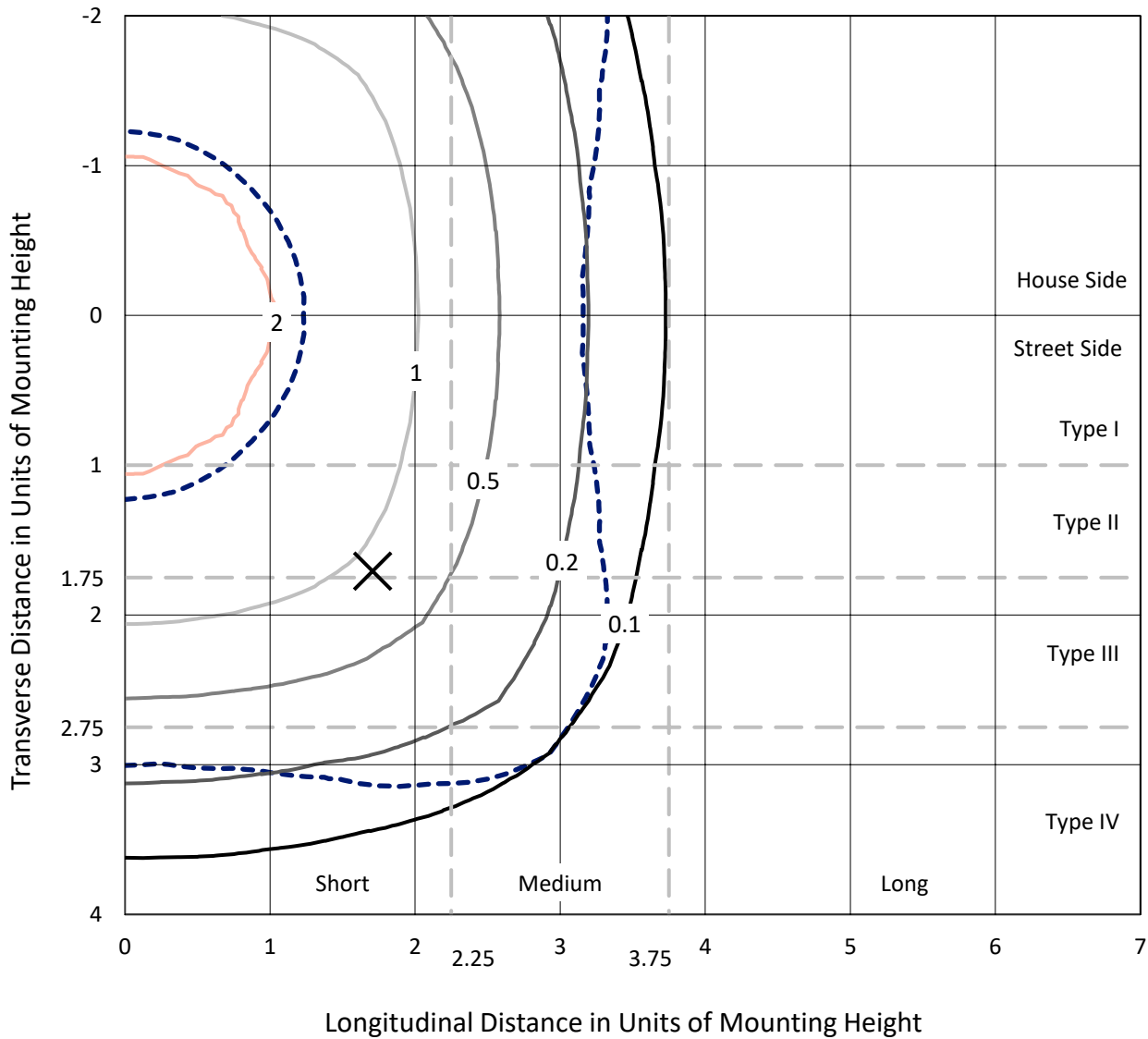
Lumens per Lamp: N/A  
Luminaire Lumens: 34801 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

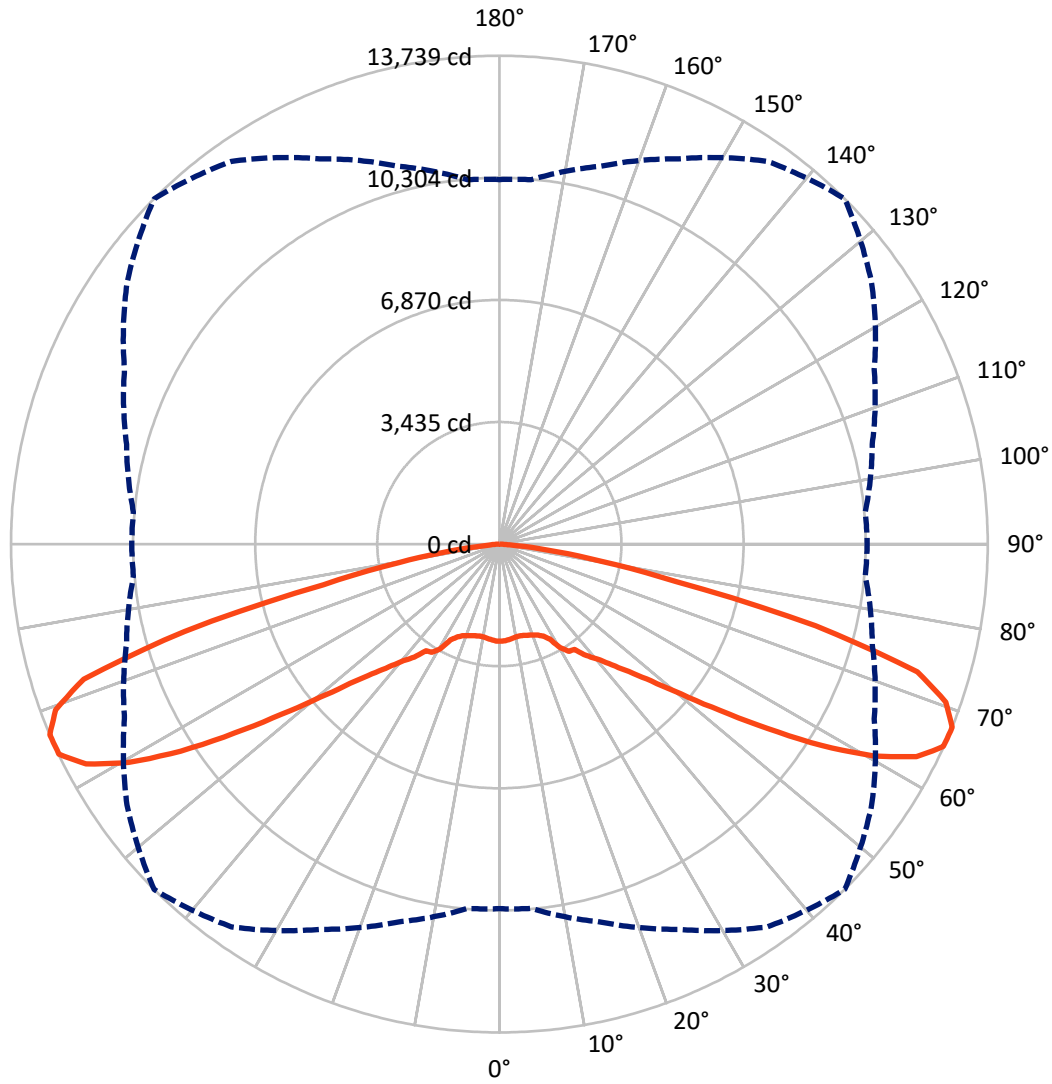
✕ Max cd  
 - - - 1/2 Max cd



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	17400.5	0.0	17400.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17400.5	0.0	17400.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34801.0	0.0	34801.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.2	0.7
10°-20°	760.4	2.2
20°-30°	1364.1	3.9
30°-40°	2304.3	6.6
40°-50°	4048.7	11.6
50°-60°	7810.1	22.4
60°-70°	11331.4	32.6
70°-80°	6483.3	18.6
80°-90°	442.5	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°	34801.0	100.0
0°-180°	34801.0	100.0

**Coefficient of Utilization**



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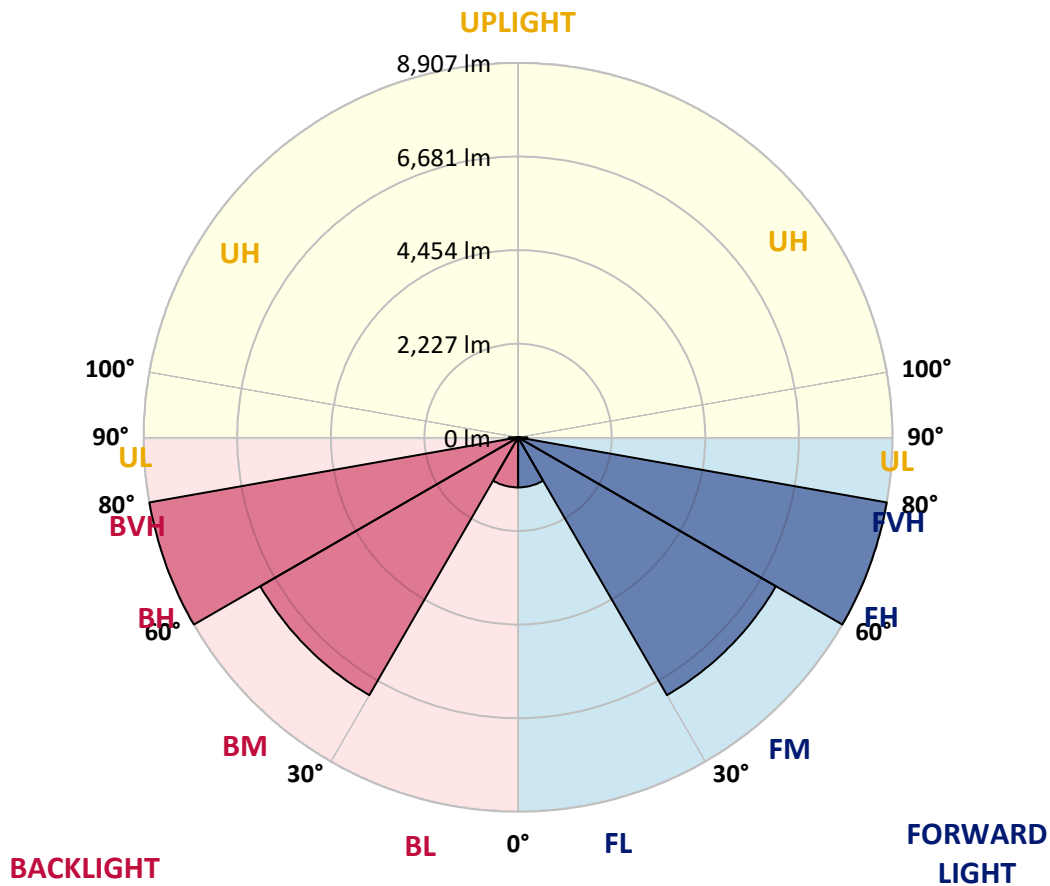
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.4	3.4			
FM (30°-60°)	7081.5	20.3			
FH (60°-80°)	8907.3	25.6			G4/12000
FVH (80°-90°)	221.2	0.6			G2/225
BL (0°-30°)	1190.4	3.4	B3/2500		
BM (30°-60°)	7081.5	20.3	B4/8500		
BH (60°-80°)	8907.3	25.6	B5		G4/12000
BVH (80°-90°)	221.2	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°	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1
2.5°	2707.0	2709.4	2714.3	2714.3	2719.3	2726.6	2729.1	2724.2	2726.6	2714.3	2726.6
5°	2699.6	2702.0	2704.5	2699.6	2699.6	2702.0	2702.0	2697.1	2699.6	2687.3	2699.6
7.5°	2682.4	2684.8	2684.8	2677.4	2670.0	2675.0	2675.0	2670.0	2672.5	2660.2	2675.0
10°	2667.6	2667.6	2665.1	2650.4	2643.0	2650.4	2652.8	2655.3	2665.1	2655.3	2672.5
12.5°	2677.4	2677.4	2670.0	2650.4	2638.1	2643.0	2647.9	2652.8	2670.0	2667.6	2687.3
15°	2704.5	2707.0	2687.3	2665.1	2657.7	2665.1	2660.2	2657.7	2679.9	2687.3	2709.4
17.5°	2726.6	2726.6	2702.0	2679.9	2682.4	2694.7	2684.8	2672.5	2694.7	2709.4	2734.0
20°	2746.3	2743.9	2716.8	2702.0	2711.9	2729.1	2721.7	2704.5	2719.3	2736.5	2758.6
22.5°	2795.6	2793.1	2763.6	2756.2	2766.0	2783.2	2775.9	2761.1	2778.3	2802.9	2830.0
25°	2935.8	2930.9	2886.6	2862.0	2857.1	2869.4	2866.9	2862.0	2889.1	2918.6	2950.6
27.5°	3122.8	3120.4	3088.4	3063.8	3031.8	3022.0	3029.3	3051.5	3090.9	3113.0	3140.1
30°	3216.4	3216.4	3211.4	3250.8	3319.7	3386.2	3334.5	3250.8	3216.4	3206.5	3233.6
32.5°	3339.4	3351.7	3334.5	3378.8	3494.4	3592.9	3494.4	3359.1	3334.5	3334.5	3364.0
35°	3622.4	3627.3	3600.3	3592.9	3629.8	3642.1	3595.3	3546.1	3573.2	3578.1	3615.0
37.5°	3848.8	3848.8	3836.5	3856.2	3932.5	3979.2	3902.9	3814.4	3821.7	3826.7	3873.4
40°	4198.3	4208.1	4178.6	4176.1	4205.6	4247.5	4166.3	4109.7	4149.0	4161.3	4232.7
42.5°	4633.8	4633.8	4589.5	4577.2	4596.9	4641.2	4564.9	4528.0	4579.7	4589.5	4631.4
45°	5153.1	5165.4	5106.3	5084.2	5094.0	5108.8	5054.6	5037.4	5086.6	5108.8	5182.6
47.5°	5785.5	5797.8	5746.1	5743.7	5733.8	5743.7	5692.0	5682.2	5721.5	5704.3	5783.1
50°	6565.6	6587.8	6543.5	6605.0	6597.6	6627.1	6555.8	6504.1	6504.1	6457.3	6501.6
52.5°	7439.2	7483.5	7505.7	7609.0	7687.8	7761.6	7643.5	7562.3	7444.1	7348.2	7468.8
55°	8391.6	8379.3	8519.5	8745.9	8977.3	9152.0	8920.7	8664.7	8472.8	8273.5	8320.2
57.5°	9225.8	9267.6	9452.2	9865.6	10323.4	10692.5	10276.6	9784.4	9348.9	9063.4	9102.8
60°	9919.8	9954.2	10200.3	10795.9	11595.6	12105.0	11445.5	10633.4	10001.0	9607.3	9649.1
62.5°	10559.6	10591.6	10840.1	11497.2	12506.2	13170.6	12319.1	11209.3	10505.5	10109.3	10133.9
65°	10928.7	10948.4	11288.0	11979.5	13042.6	13729.2	12769.5	11625.2	10933.7	10530.1	10544.8
67.5°	10256.9	10288.9	11005.0	11959.8	13146.0	13739.1	12789.2	11637.5	10859.8	10333.2	10345.5
70°	8091.4	8064.3	8918.2	10559.6	12552.9	13325.6	12220.7	10763.9	9563.0	8827.2	8814.8
72.5°	6169.4	6176.8	6651.7	7776.4	10234.8	12297.0	10783.5	8667.2	7372.8	6814.2	6792.0
75°	4473.9	4542.8	4929.1	5753.5	7158.7	9191.4	8118.4	6422.9	5556.7	5222.0	5172.8
77.5°	2015.5	2104.0	2643.0	3612.6	4786.4	5079.2	5098.9	4360.7	3290.2	2734.0	2647.9
80°	588.1	630.0	809.6	1385.5	2229.6	2881.7	2288.6	1924.4	1198.4	940.1	895.8
82.5°	248.5	283.0	347.0	383.9	647.2	1336.3	831.8	529.1	492.2	398.7	364.2
85°	105.8	113.2	145.2	155.0	209.2	285.5	263.3	238.7	228.9	177.2	162.4
87.5°	44.3	44.3	44.3	39.4	36.9	39.4	54.1	68.9	91.1	71.4	66.4
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)