

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: P643906

Luminaire Tested: GWS-SA6F-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643906  
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-SA6F-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

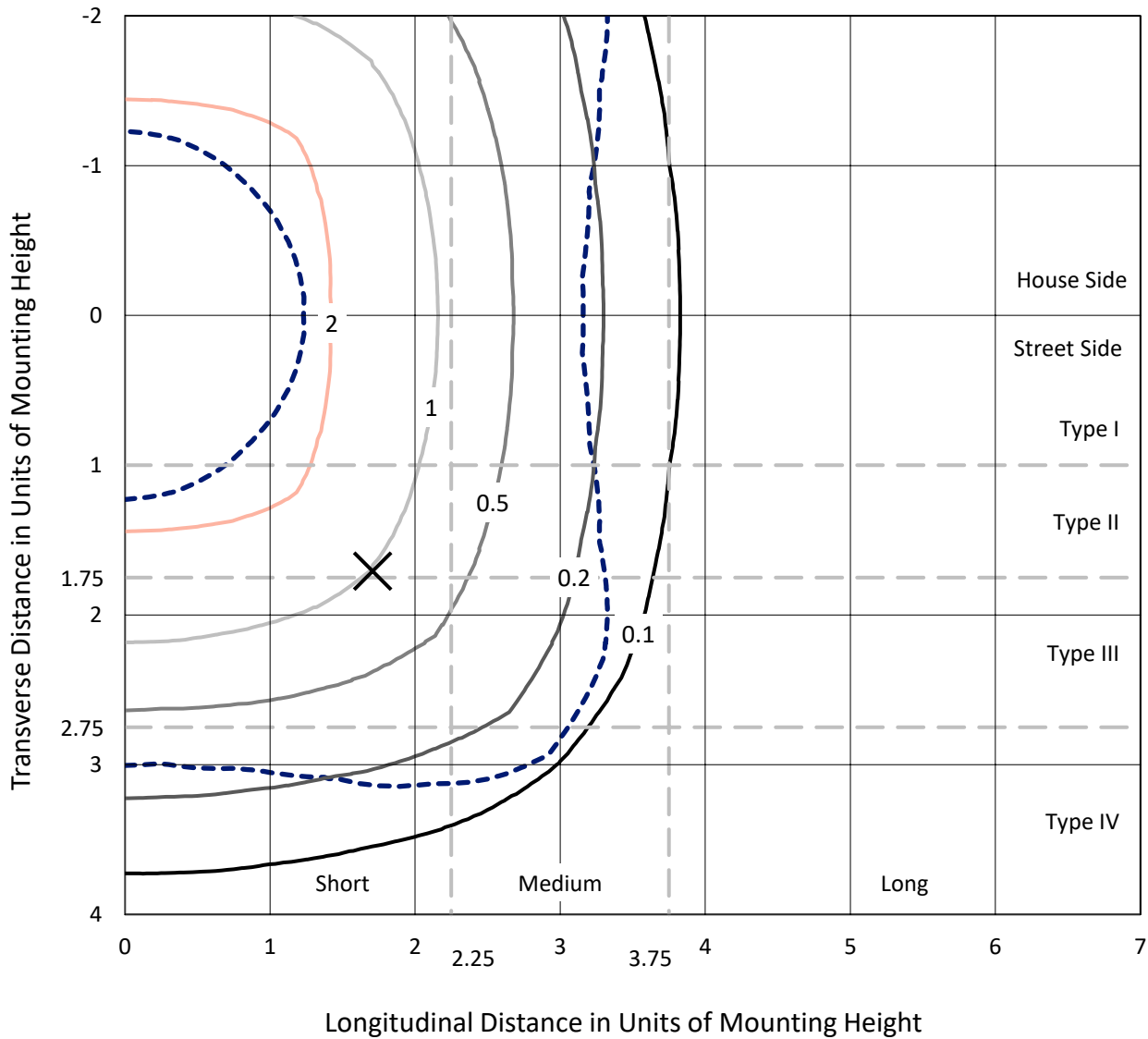
Lumens per Lamp: N/A  
Luminaire Lumens: 40082.3 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

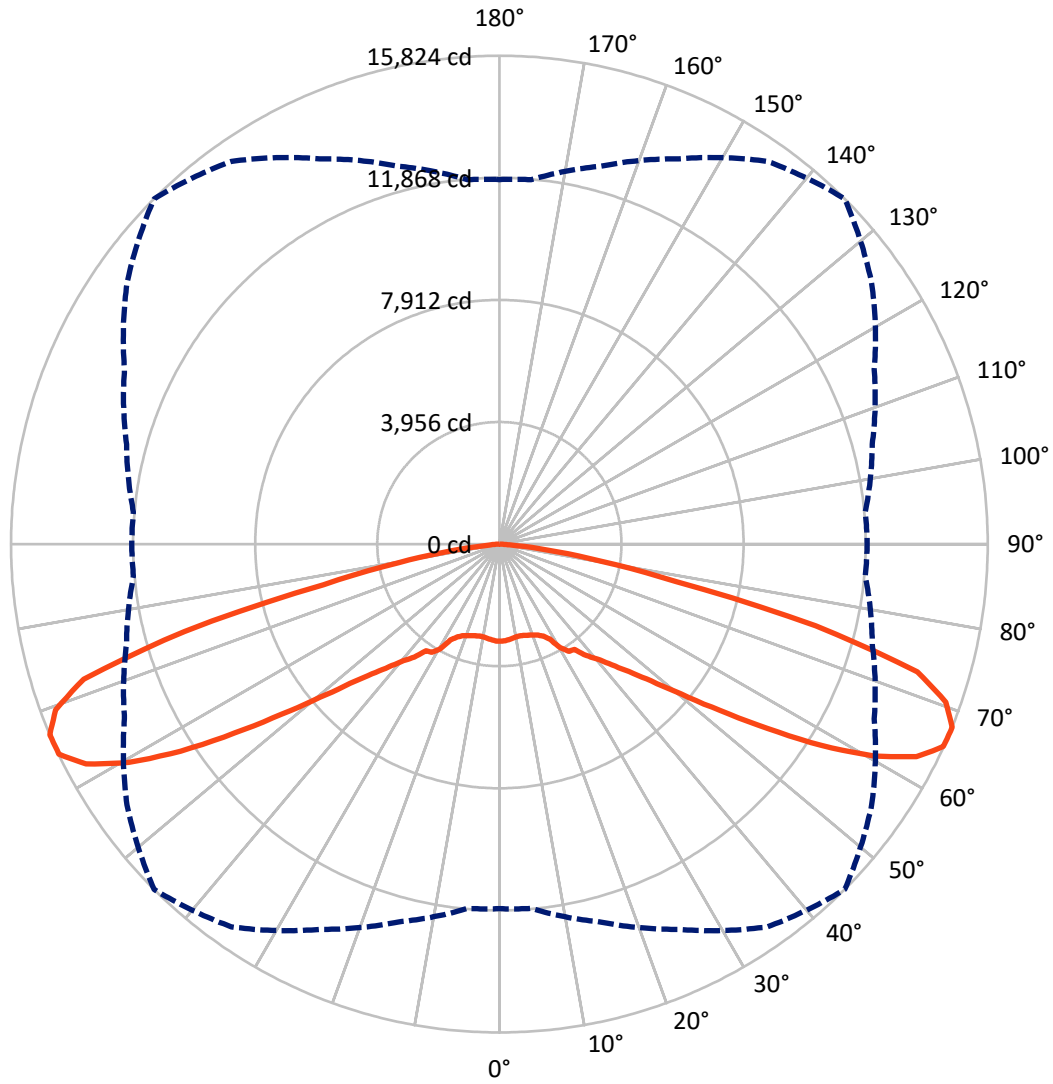
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 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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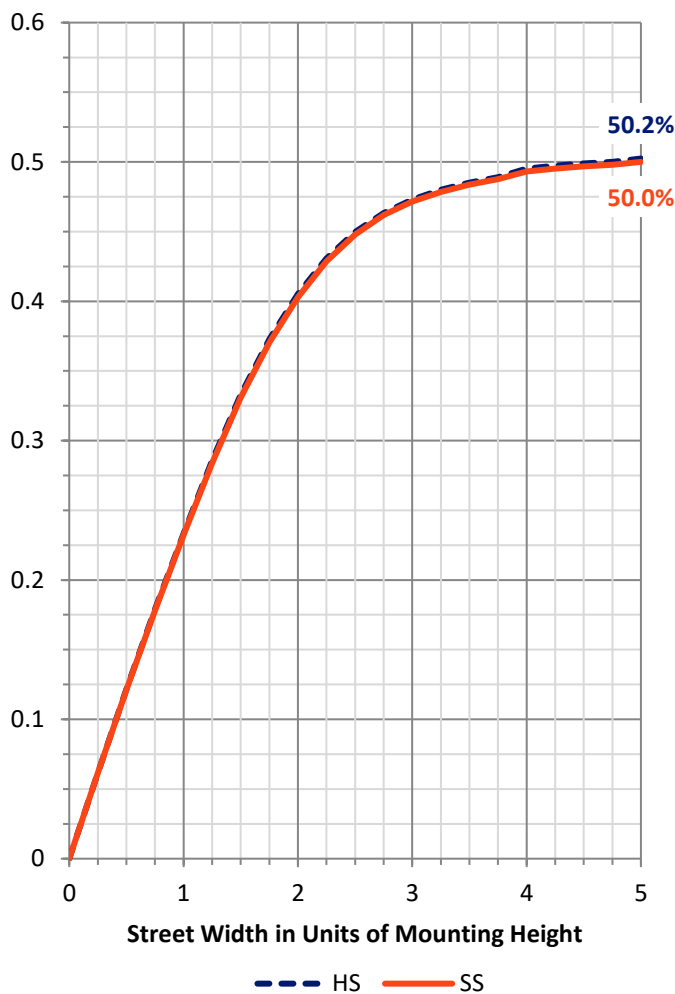
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20041.2	0.0	20041.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20041.2	0.0	20041.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40082.3	0.0	40082.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.1	0.7
10°-20°	875.8	2.2
20°-30°	1571.1	3.9
30°-40°	2654.0	6.6
40°-50°	4663.1	11.6
50°-60°	8995.3	22.4
60°-70°	13051.0	32.6
70°-80°	7467.2	18.6
80°-90°	509.6	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°	40082.3	100.0
0°-180°	40082.3	100.0

**Coefficient of Utilization**



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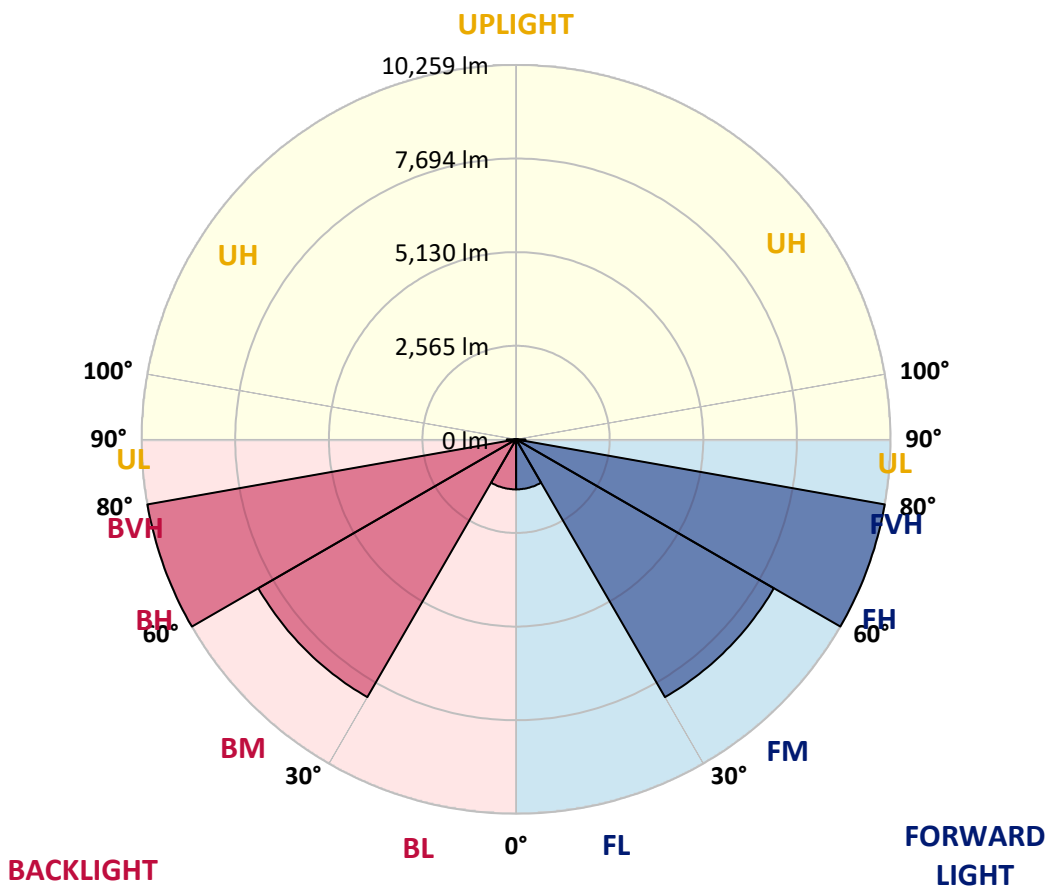
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.0	3.4			
FM (30°-60°)	8156.2	20.3			
FH (60°-80°)	10259.1	25.6			G4/12000
FVH (80°-90°)	254.8	0.6			G3/500
BL (0°-30°)	1371.0	3.4	B3/2500		
BM (30°-60°)	8156.2	20.3	B4/8500		
BH (60°-80°)	10259.1	25.6	B5		G4/12000
BVH (80°-90°)	254.8	0.6			G3/500
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°	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3
2.5°	3117.8	3120.6	3126.3	3126.3	3131.9	3140.4	3143.3	3137.6	3140.4	3126.3	3140.4
5°	3109.3	3112.1	3114.9	3109.3	3109.3	3112.1	3112.1	3106.4	3109.3	3095.1	3109.3
7.5°	3089.4	3092.3	3092.3	3083.7	3075.2	3080.9	3080.9	3075.2	3078.1	3063.9	3080.9
10°	3072.4	3072.4	3069.6	3052.6	3044.1	3052.6	3055.4	3058.2	3069.6	3058.2	3078.1
12.5°	3083.7	3083.7	3075.2	3052.6	3038.4	3044.1	3049.7	3055.4	3075.2	3072.4	3095.1
15°	3114.9	3117.8	3095.1	3069.6	3061.1	3069.6	3063.9	3061.1	3086.6	3095.1	3120.6
17.5°	3140.4	3140.4	3112.1	3086.6	3089.4	3103.6	3092.3	3078.1	3103.6	3120.6	3148.9
20°	3163.1	3160.3	3129.1	3112.1	3123.4	3143.3	3134.8	3114.9	3131.9	3151.8	3177.3
22.5°	3219.8	3217.0	3183.0	3174.4	3185.8	3205.6	3197.1	3180.1	3200.0	3228.3	3259.5
25°	3381.4	3375.7	3324.7	3296.3	3290.7	3304.8	3302.0	3296.3	3327.5	3361.5	3398.4
27.5°	3596.8	3593.9	3557.1	3528.7	3491.9	3480.6	3489.1	3514.6	3559.9	3585.4	3616.6
30°	3704.5	3704.5	3698.8	3744.1	3823.5	3900.0	3840.5	3744.1	3704.5	3693.1	3724.3
32.5°	3846.2	3860.4	3840.5	3891.5	4024.7	4138.1	4024.7	3868.9	3840.5	3840.5	3874.5
35°	4172.1	4177.8	4146.6	4138.1	4180.6	4194.8	4141.0	4084.3	4115.4	4121.1	4163.6
37.5°	4432.9	4432.9	4418.7	4441.4	4529.3	4583.1	4495.2	4393.2	4401.7	4407.4	4461.2
40°	4835.4	4846.7	4812.7	4809.9	4843.9	4892.1	4798.5	4733.3	4778.7	4792.8	4875.0
42.5°	5337.0	5337.0	5286.0	5271.9	5294.5	5345.5	5257.7	5215.2	5274.7	5286.0	5334.2
45°	5935.1	5949.3	5881.2	5855.7	5867.1	5884.1	5821.7	5801.9	5858.6	5884.1	5969.1
47.5°	6663.5	6677.7	6618.2	6615.3	6604.0	6615.3	6555.8	6544.5	6589.8	6570.0	6660.7
50°	7562.0	7587.5	7536.5	7607.3	7598.8	7632.8	7550.7	7491.1	7491.1	7437.3	7488.3
52.5°	8568.2	8619.2	8644.7	8763.7	8854.4	8939.5	8803.4	8709.9	8573.8	8463.3	8602.2
55°	9665.1	9650.9	9812.4	10073.2	10339.6	10540.9	10274.4	9979.7	9758.6	9529.0	9582.9
57.5°	10625.9	10674.1	10886.7	11362.8	11890.0	12315.2	11836.2	11269.3	10767.6	10438.8	10484.2
60°	11425.2	11464.9	11748.3	12434.2	13355.4	13942.1	13182.5	12247.1	11518.7	11065.2	11113.4
62.5°	12162.1	12199.0	12485.2	13242.0	14404.1	15169.3	14188.6	12910.4	12099.7	11643.4	11671.8
65°	12587.3	12609.9	13001.1	13797.5	15021.9	15812.7	14707.3	13389.4	12592.9	12128.1	12145.1
67.5°	11813.5	11850.3	12675.1	13774.8	15141.0	15824.1	14730.0	13403.5	12507.9	11901.3	11915.5
70°	9319.3	9288.1	10271.6	12162.1	14457.9	15347.9	14075.3	12397.4	11014.2	10166.7	10152.6
72.5°	7105.7	7114.2	7661.2	8956.5	11788.0	14163.1	12420.0	9982.5	8491.6	7848.3	7822.7
75°	5152.8	5232.2	5677.2	6626.7	8245.1	10586.2	9350.5	7397.6	6399.9	6014.4	5957.8
77.5°	2321.3	2423.4	3044.1	4160.8	5512.8	5850.1	5872.7	5022.4	3789.5	3148.9	3049.7
80°	677.4	725.6	932.5	1595.7	2567.9	3319.0	2635.9	2216.4	1380.3	1082.7	1031.7
82.5°	286.3	325.9	399.6	442.2	745.4	1539.0	958.0	609.4	566.9	459.2	419.5
85°	121.9	130.4	167.2	178.6	240.9	328.8	303.3	274.9	263.6	204.1	187.1
87.5°	51.0	51.0	51.0	45.3	42.5	45.3	62.4	79.4	104.9	82.2	76.5
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)