

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: P643904

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643904  
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-SA6F-830-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20806.4 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
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

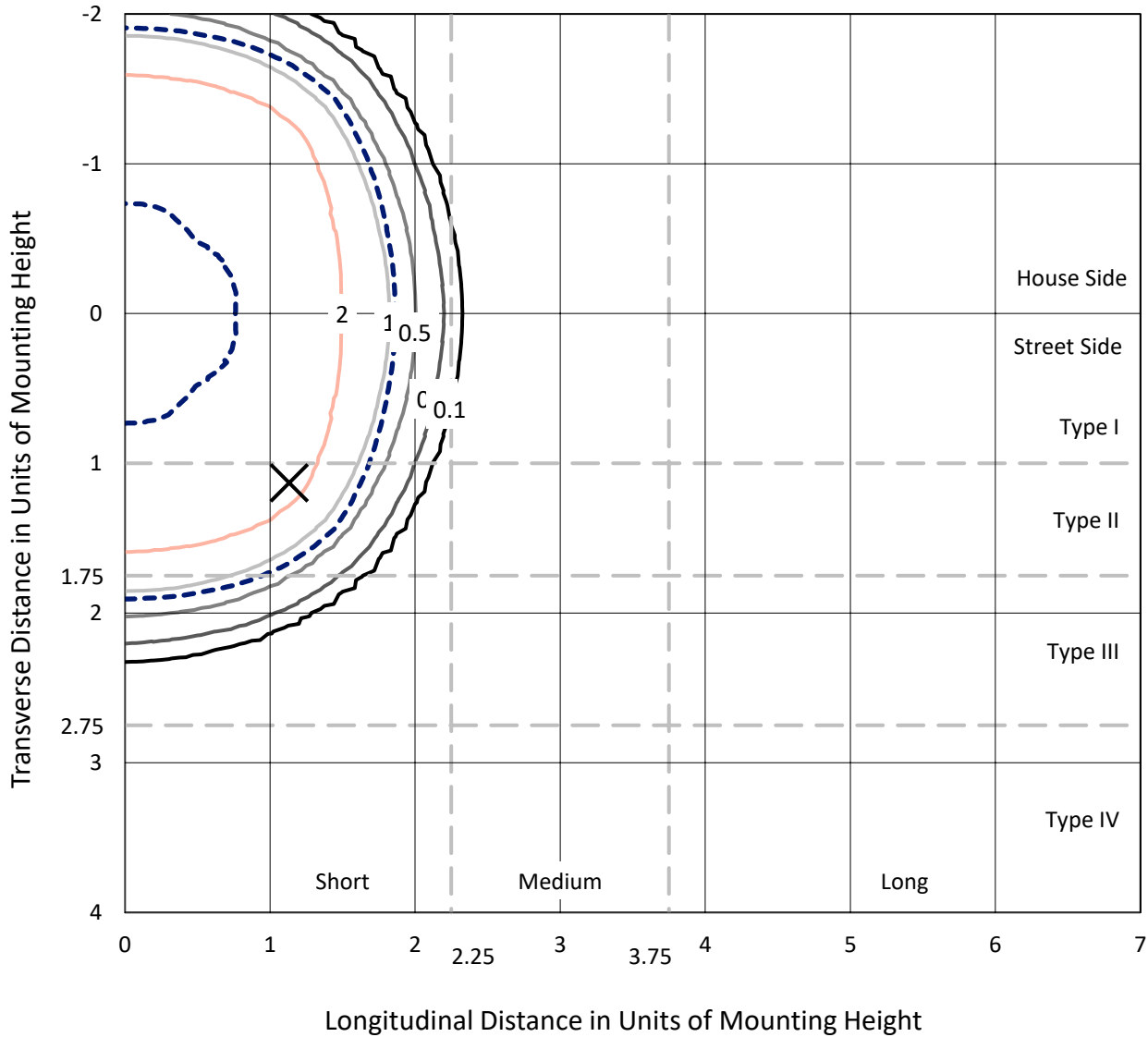


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### Iso-Footcandle Lines of Horizontal Illumination

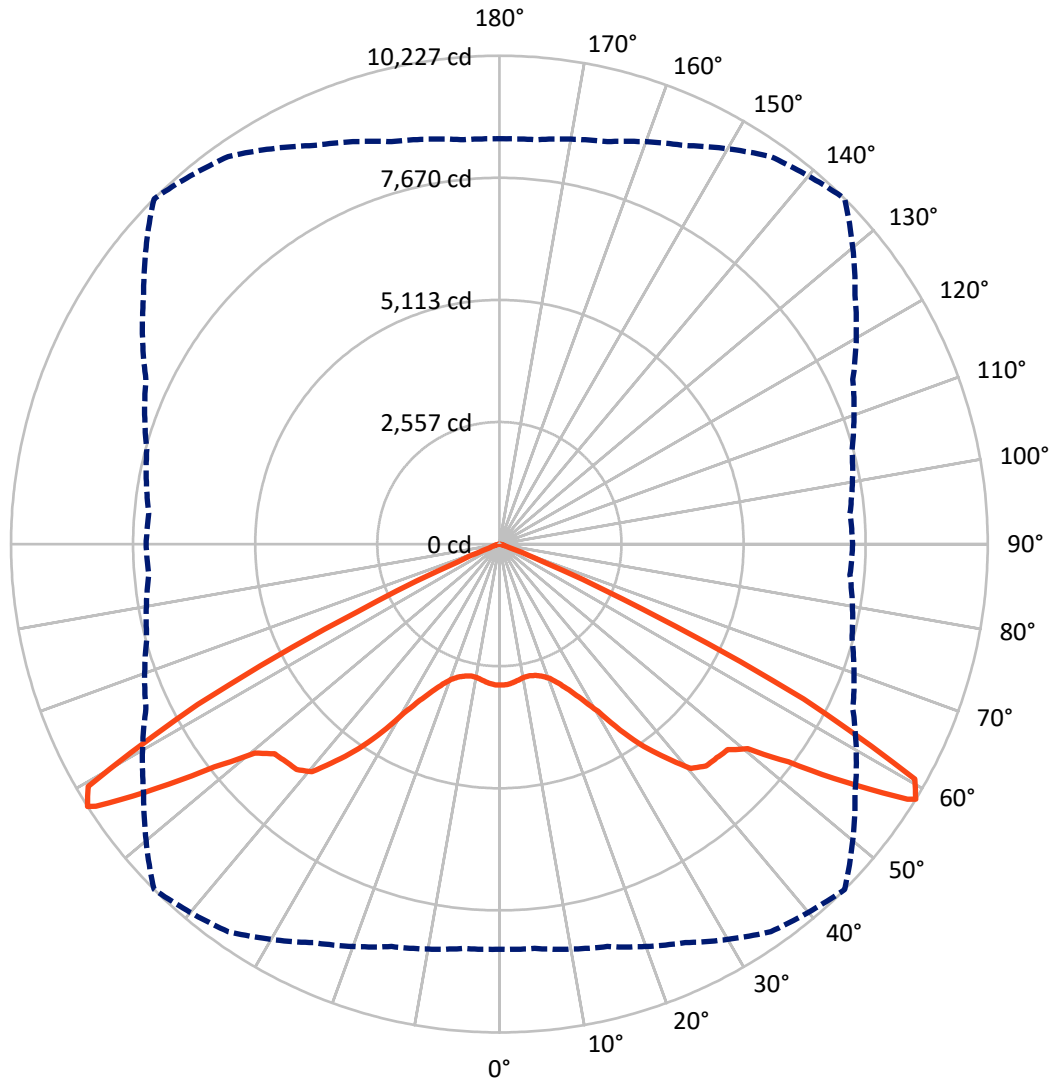
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	10403.2	0.0	10403.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10403.2	0.0	10403.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20806.4	0.0	20806.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	1.3
10°-20°	814.6	3.9
20°-30°	1540.6	7.4
30°-40°	3038.4	14.6
40°-50°	4808.3	23.1
50°-60°	7067.9	34.0
60°-70°	3154.8	15.2
70°-80°	105.7	0.5
80°-90°	0.9	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°	20806.4	100.0
0°-180°	20806.4	100.0

**Coefficient of Utilization**



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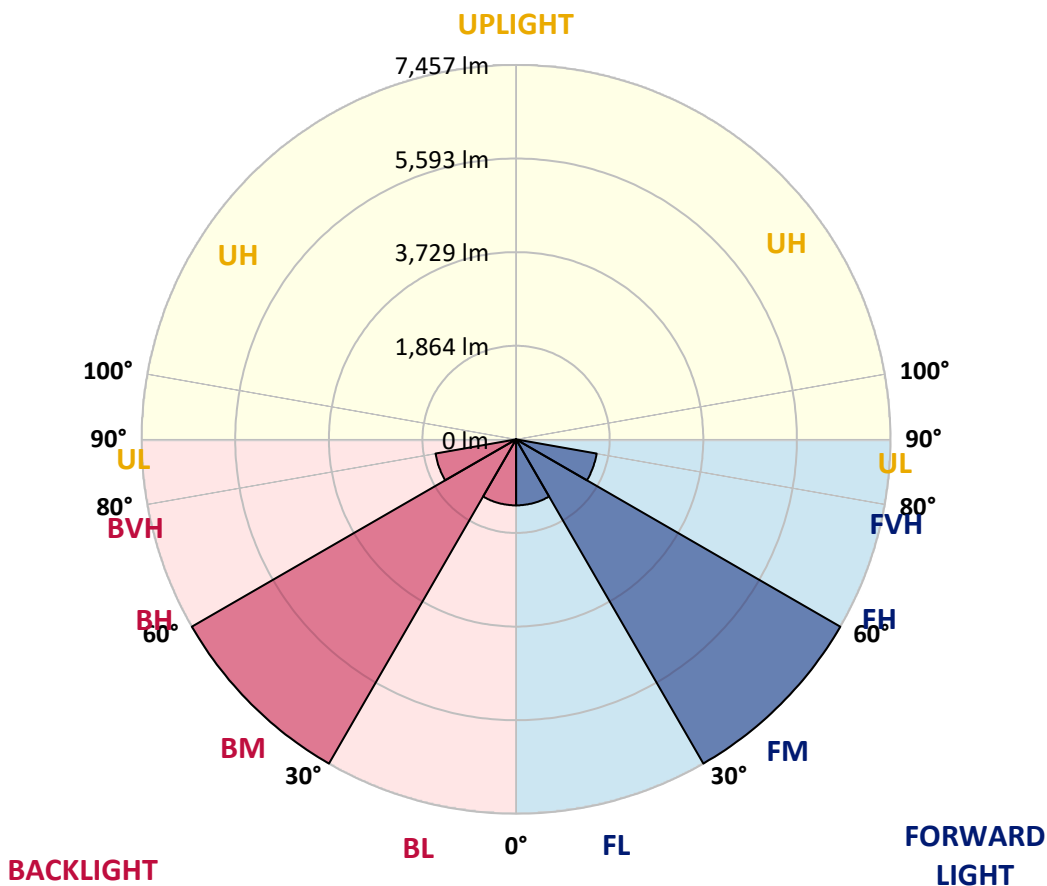
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.2	6.3			
FM (30°-60°)	7457.3	35.8			
FH (60°-80°)	1630.2	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1315.2	6.3	B3/2500		
BM (30°-60°)	7457.3	35.8	B4/8500		
BH (60°-80°)	1630.2	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°	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6
2.5°	2922.3	2927.9	2933.6	2936.5	2939.3	2947.8	2950.6	2942.1	2942.1	2925.1	2945.0
5°	2908.1	2913.8	2919.4	2916.6	2916.6	2916.6	2913.8	2902.4	2899.6	2882.6	2902.4
7.5°	2882.6	2888.3	2888.3	2879.8	2874.1	2874.1	2871.3	2857.1	2854.3	2837.2	2857.1
10°	2862.8	2865.6	2862.8	2845.8	2834.4	2834.4	2831.6	2825.9	2828.7	2817.4	2834.4
12.5°	2874.1	2876.9	2865.6	2842.9	2828.7	2825.9	2817.4	2808.9	2817.4	2814.6	2831.6
15°	2910.9	2913.8	2893.9	2865.6	2854.3	2854.3	2831.6	2808.9	2820.2	2823.1	2842.9
17.5°	2956.3	2956.3	2930.8	2905.3	2908.1	2908.1	2871.3	2831.6	2834.4	2845.8	2865.6
20°	3010.1	3010.1	2984.6	2979.0	2998.8	3001.6	2956.3	2893.9	2879.8	2888.3	2910.9
22.5°	3106.5	3106.5	3086.7	3100.8	3146.2	3160.4	3092.3	3004.5	2970.5	2976.1	2998.8
25°	3256.7	3256.7	3251.1	3285.1	3350.3	3381.5	3290.8	3174.5	3117.9	3109.4	3134.9
27.5°	3509.0	3511.8	3503.3	3554.4	3636.6	3673.4	3548.7	3395.6	3327.6	3313.4	3338.9
30°	3835.0	3835.0	3837.8	3908.7	4016.4	4064.5	3900.2	3721.6	3642.2	3596.9	3630.9
32.5°	4197.8	4203.4	4231.8	4350.8	4540.7	4639.9	4399.0	4149.6	4022.0	3973.8	4010.7
35°	4795.8	4742.0	4708.0	4795.8	5070.8	5201.1	4892.2	4600.3	4503.9	4498.2	4591.8
37.5°	5388.2	5357.0	5286.2	5376.9	5623.5	5683.0	5342.9	5099.1	5031.1	5067.9	5161.5
40°	5858.7	5802.0	5708.5	5793.5	6116.7	6176.2	5756.7	5515.8	5490.3	5572.5	5700.0
42.5°	6230.0	6150.7	6026.0	6045.8	6306.6	6349.1	5977.8	5796.4	5813.4	5915.4	6060.0
45°	6397.3	6334.9	6224.4	6215.9	6380.3	6383.1	6091.2	5997.6	6043.0	6122.3	6235.7
47.5°	6468.1	6439.8	6377.4	6363.3	6456.8	6434.1	6252.7	6213.0	6255.6	6278.2	6343.4
50°	6643.9	6643.9	6652.4	6663.7	6760.1	6737.4	6609.9	6564.5	6510.6	6431.3	6451.1
52.5°	7137.1	7156.9	7239.1	7329.8	7505.5	7579.2	7372.3	7108.7	6850.8	6677.9	6677.9
55°	8027.1	8046.9	8143.3	8296.3	8619.5	8795.2	8313.3	7732.3	7378.0	7142.7	7173.9
57.5°	8517.4	8540.1	8738.5	9152.3	9778.7	10076.3	9041.8	8180.1	7684.1	7414.8	7437.5
58°	8486.2	8500.4	8724.3	9209.0	9906.3	10226.6	9092.8	8165.9	7644.4	7369.5	7397.8
60°	7539.5	7519.7	7876.8	8568.4	9552.0	9994.1	8585.4	7454.5	6847.9	6567.3	6581.5
62.5°	4929.0	4940.4	5249.3	5972.1	6737.4	7154.1	5997.6	5155.8	4668.3	4498.2	4455.7
65°	2057.8	2020.9	2210.8	2613.3	3072.5	3304.9	2840.1	2403.6	2103.1	1989.8	2020.9
67.5°	530.0	515.9	527.2	660.4	807.8	955.2	802.1	612.2	532.9	538.5	538.5
70°	300.4	283.4	229.6	212.6	206.9	206.9	206.9	206.9	238.1	280.6	289.1
72.5°	226.8	212.6	167.2	144.6	127.5	119.0	124.7	144.6	172.9	209.7	215.4
75°	113.4	113.4	102.0	96.4	85.0	79.4	82.2	90.7	104.9	119.0	116.2
77.5°	22.7	25.5	28.3	34.0	28.3	28.3	28.3	34.0	34.0	36.8	34.0
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	0.0	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
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)