

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: P642916

Luminaire Tested: GWS-SA6D-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642916  
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-SA6D-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**

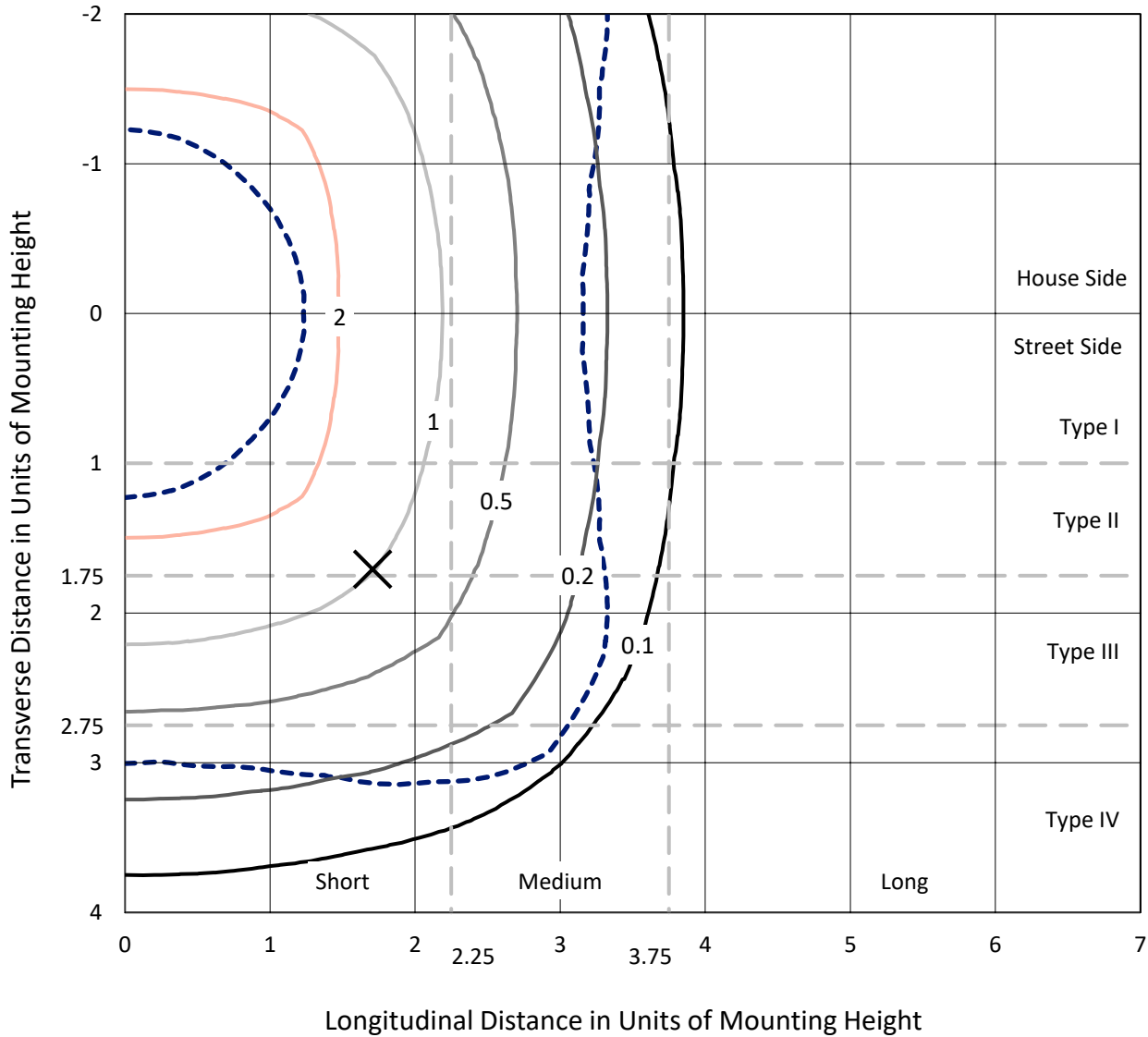
Lumens per Lamp: N/A  
Luminaire Lumens: 28849 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

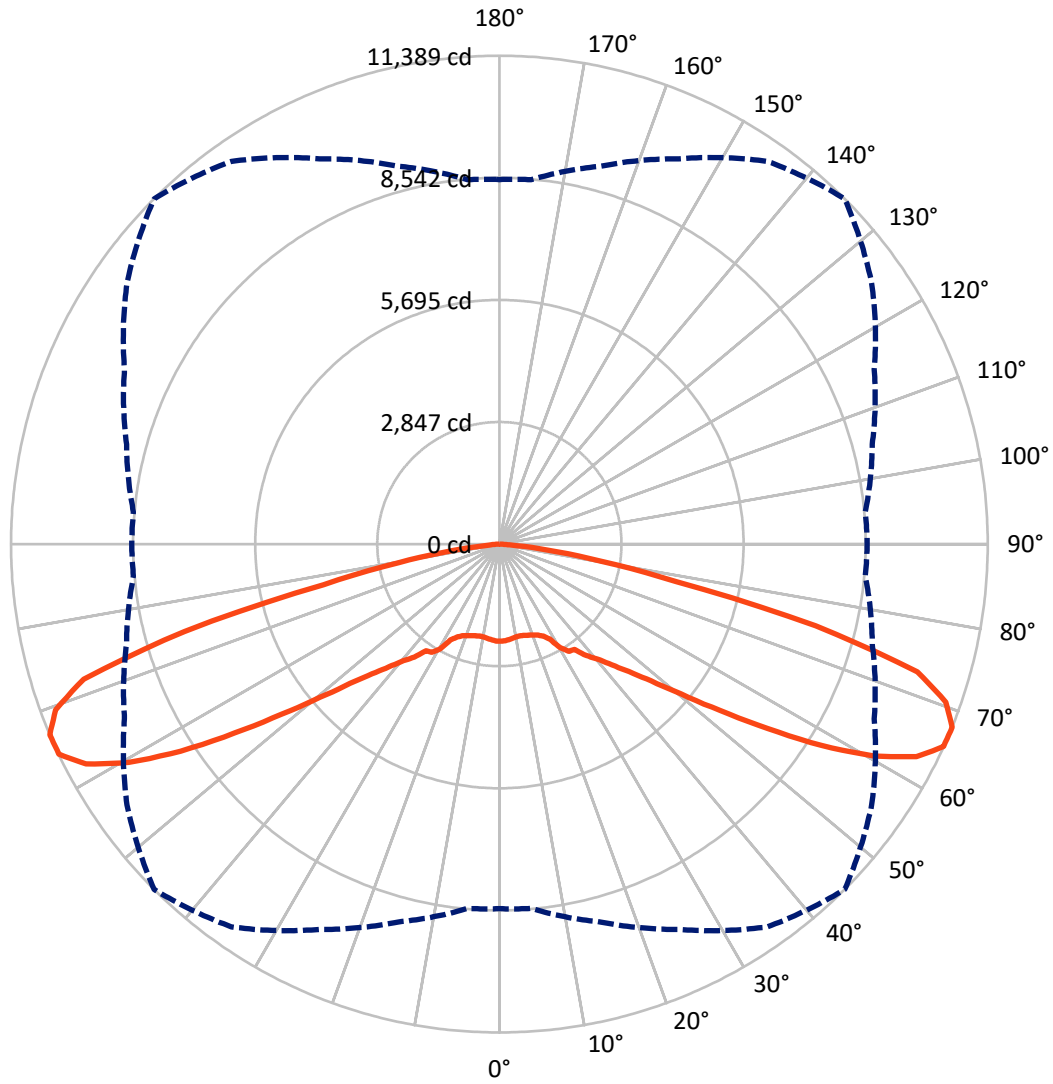
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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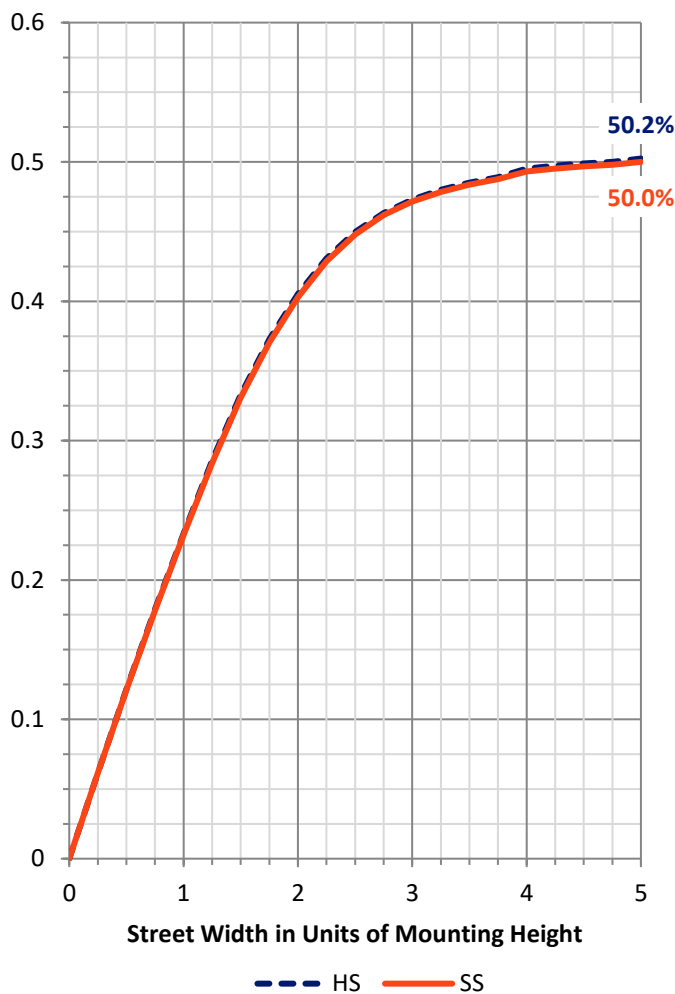
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14424.5	0.0	14424.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14424.5	0.0	14424.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28849.0	0.0	28849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.4	0.7
10°-20°	630.4	2.2
20°-30°	1130.8	3.9
30°-40°	1910.2	6.6
40°-50°	3356.2	11.6
50°-60°	6474.3	22.4
60°-70°	9393.4	32.6
70°-80°	5374.5	18.6
80°-90°	366.8	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°	28849.0	100.0
0°-180°	28849.0	100.0

**Coefficient of Utilization**



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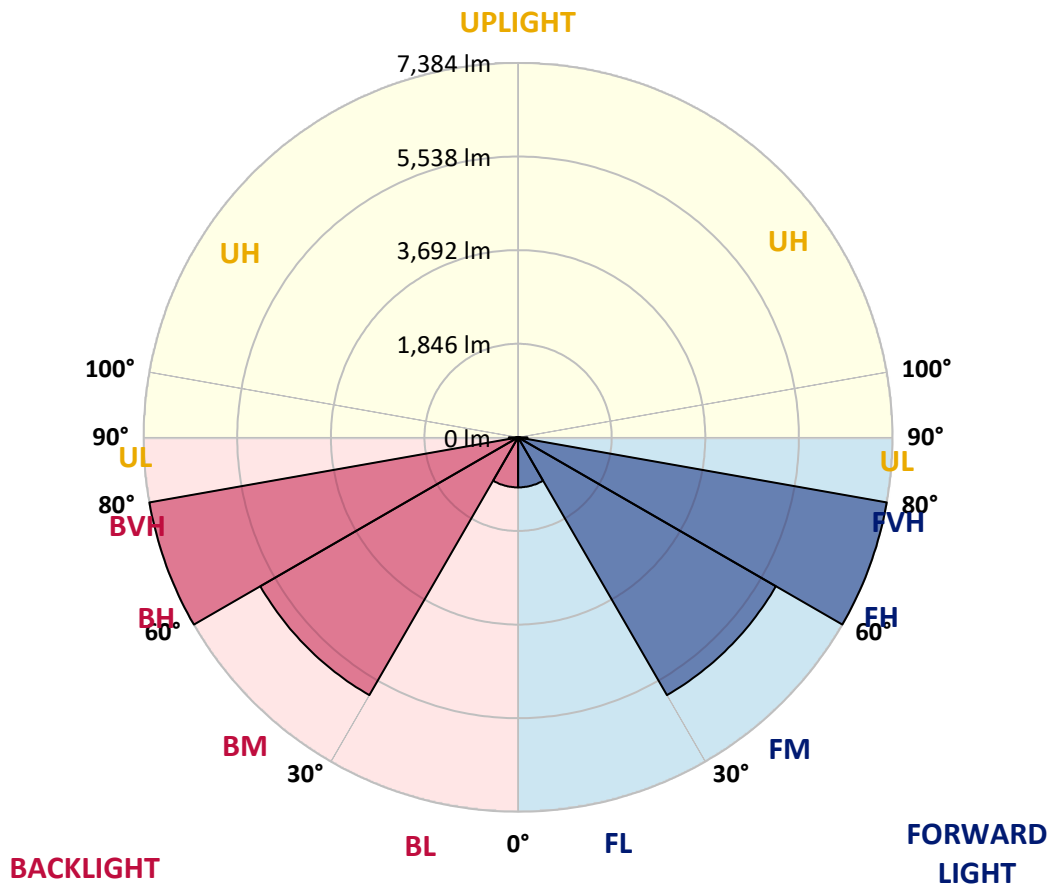
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.8	3.4			
FM (30°-60°)	5870.4	20.3			
FH (60°-80°)	7383.9	25.6			G3/7500
FVH (80°-90°)	183.4	0.6			G2/225
BL (0°-30°)	986.8	3.4	B2/1000		
BM (30°-60°)	5870.4	20.3	B4/8500		
BH (60°-80°)	7383.9	25.6	B5		G3/7500
BVH (80°-90°)	183.4	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4
2.5°	2244.0	2246.0	2250.1	2250.1	2254.2	2260.3	2262.4	2258.3	2260.3	2250.1	2260.3
5°	2237.9	2239.9	2242.0	2237.9	2237.9	2239.9	2239.9	2235.8	2237.9	2227.7	2237.9
7.5°	2223.6	2225.6	2225.6	2219.5	2213.4	2217.5	2217.5	2213.4	2215.4	2205.2	2217.5
10°	2211.4	2211.4	2209.3	2197.1	2191.0	2197.1	2199.1	2201.2	2209.3	2201.2	2215.4
12.5°	2219.5	2219.5	2213.4	2197.1	2186.9	2191.0	2195.0	2199.1	2213.4	2211.4	2227.7
15°	2242.0	2244.0	2227.7	2209.3	2203.2	2209.3	2205.2	2203.2	2221.6	2227.7	2246.0
17.5°	2260.3	2260.3	2239.9	2221.6	2223.6	2233.8	2225.6	2215.4	2233.8	2246.0	2266.4
20°	2276.6	2274.6	2252.2	2239.9	2248.1	2262.4	2256.2	2242.0	2254.2	2268.5	2286.8
22.5°	2317.4	2315.4	2290.9	2284.8	2293.0	2307.2	2301.1	2288.9	2303.2	2323.6	2346.0
25°	2433.7	2429.6	2392.9	2372.5	2368.4	2378.6	2376.6	2372.5	2394.9	2419.4	2445.9
27.5°	2588.7	2586.7	2560.2	2539.8	2513.3	2505.1	2511.2	2529.6	2562.2	2580.6	2603.0
30°	2666.3	2666.3	2662.2	2694.8	2751.9	2807.0	2764.2	2694.8	2666.3	2658.1	2680.5
32.5°	2768.3	2778.5	2764.2	2800.9	2896.8	2978.4	2896.8	2784.6	2764.2	2764.2	2788.7
35°	3002.9	3006.9	2984.5	2978.4	3009.0	3019.2	2980.4	2939.6	2962.1	2966.1	2996.7
37.5°	3190.5	3190.5	3180.3	3196.7	3259.9	3298.7	3235.4	3162.0	3168.1	3172.2	3210.9
40°	3480.2	3488.4	3463.9	3461.9	3486.3	3521.0	3453.7	3406.8	3439.4	3449.6	3508.8
42.5°	3841.3	3841.3	3804.6	3794.4	3810.7	3847.4	3784.2	3753.6	3796.4	3804.6	3839.3
45°	4271.7	4281.9	4233.0	4214.6	4222.8	4235.0	4190.1	4175.9	4216.7	4235.0	4296.2
47.5°	4796.0	4806.2	4763.4	4761.3	4753.2	4761.3	4718.5	4710.3	4743.0	4728.7	4794.0
50°	5442.7	5461.1	5424.3	5475.3	5469.2	5493.7	5434.5	5391.7	5391.7	5352.9	5389.7
52.5°	6166.9	6203.6	6222.0	6307.7	6372.9	6434.1	6336.2	6268.9	6171.0	6091.4	6191.4
55°	6956.4	6946.2	7062.5	7250.1	7441.9	7586.7	7395.0	7182.8	7023.7	6858.5	6897.2
57.5°	7647.9	7682.6	7835.6	8178.3	8557.8	8863.8	8519.0	8111.0	7749.9	7513.3	7545.9
60°	8223.2	8251.8	8455.8	8949.4	9612.4	10034.7	9488.0	8814.8	8290.5	7964.1	7998.8
62.5°	8753.6	8780.1	8986.2	9530.8	10367.2	10918.0	10212.2	9292.2	8708.7	8380.3	8400.7
65°	9059.6	9075.9	9357.4	9930.7	10812.0	11381.1	10585.5	9636.9	9063.7	8729.1	8741.4
67.5°	8502.7	8529.2	9122.8	9914.4	10897.6	11389.3	10601.8	9647.1	9002.5	8565.9	8576.1
70°	6707.5	6685.1	7392.9	8753.6	10406.0	11046.6	10130.6	8922.9	7927.4	7317.4	7307.2
72.5°	5114.3	5120.4	5514.1	6446.4	8484.3	10193.8	8939.2	7184.8	6111.8	5648.7	5630.4
75°	3708.7	3765.8	4086.1	4769.5	5934.3	7619.4	6729.9	5324.4	4606.3	4328.9	4288.1
77.5°	1670.8	1744.2	2191.0	2994.7	3967.8	4210.5	4226.9	3614.9	2727.5	2266.4	2195.0
80°	487.6	522.2	671.2	1148.5	1848.2	2388.8	1897.2	1595.3	993.5	779.3	742.6
82.5°	206.0	234.6	287.6	318.2	536.5	1107.7	689.5	438.6	408.0	330.5	301.9
85°	87.7	93.8	120.4	128.5	173.4	236.6	218.3	197.9	189.7	146.9	134.6
87.5°	36.7	36.7	36.7	32.6	30.6	32.6	44.9	57.1	75.5	59.2	55.1
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)