

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: P642911

Luminaire Tested: GWS-SA6D-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-830-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

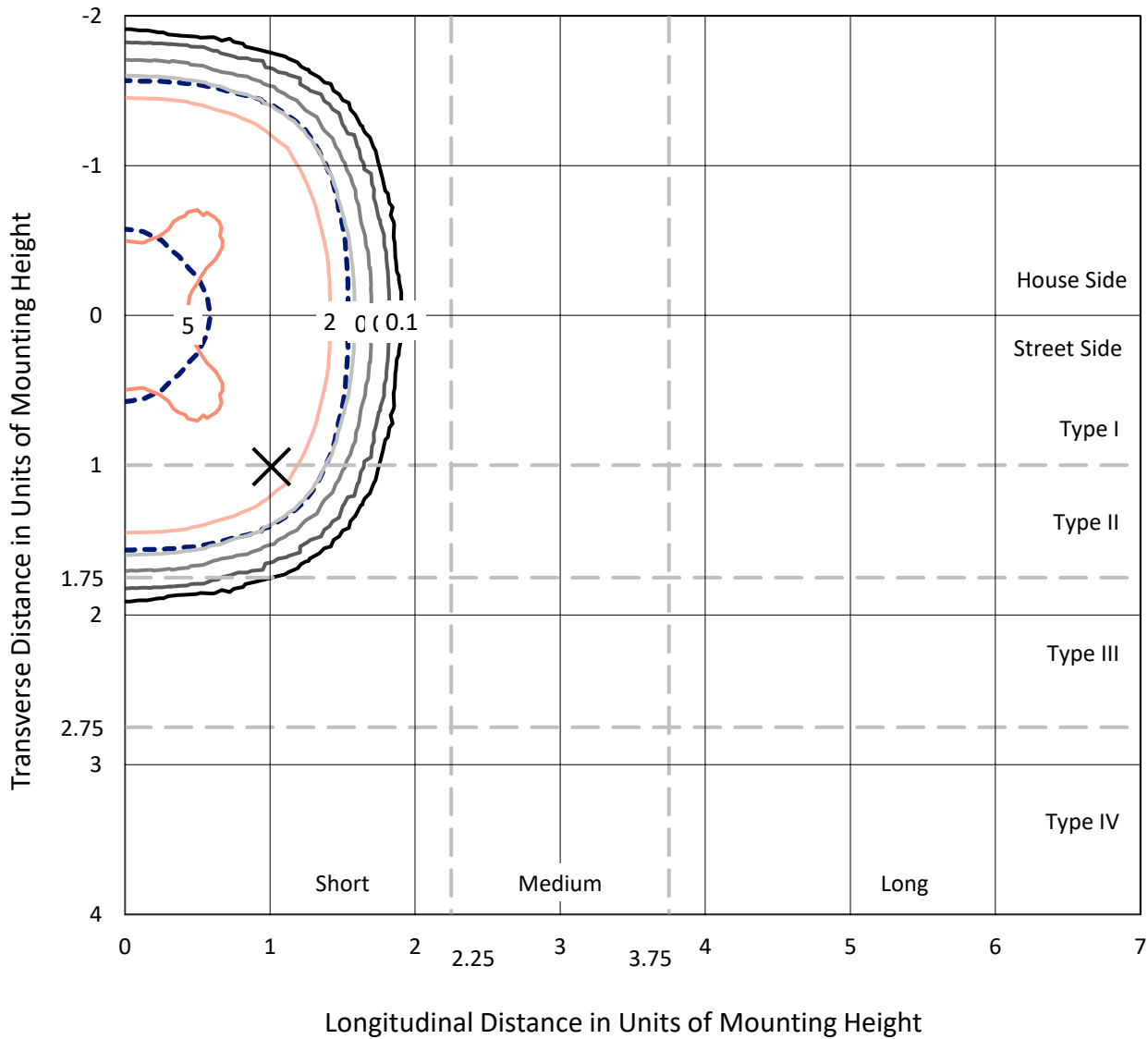
Lumens per Lamp: N/A  
Luminaire Lumens: 20024.2 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

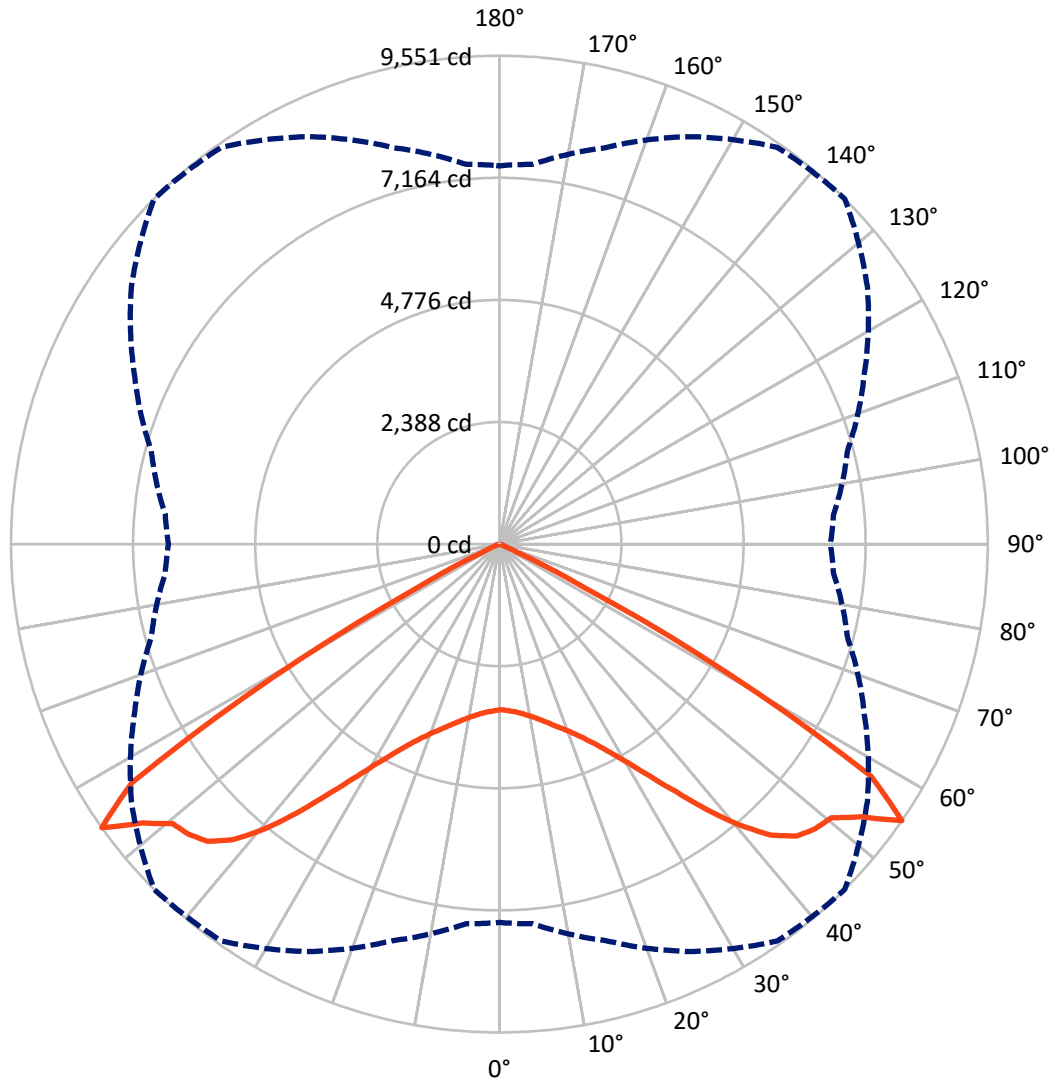
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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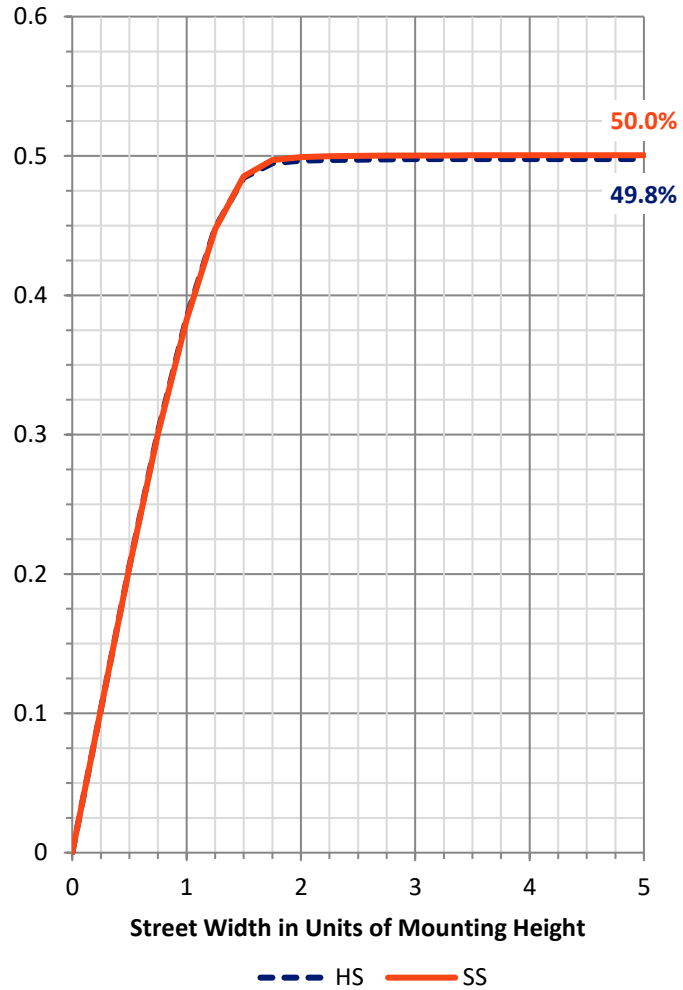
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10012.1	0.0	10012.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10012.1	0.0	10012.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20024.2	0.0	20024.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.2	1.6
10°-20°	1028.2	5.1
20°-30°	1991.3	9.9
30°-40°	3567.6	17.8
40°-50°	5981.3	29.9
50°-60°	6402.6	32.0
60°-70°	703.6	3.5
70°-80°	31.0	0.2
80°-90°	1.4	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°	20024.2	100.0
0°-180°	20024.2	100.0

**Coefficient of Utilization**



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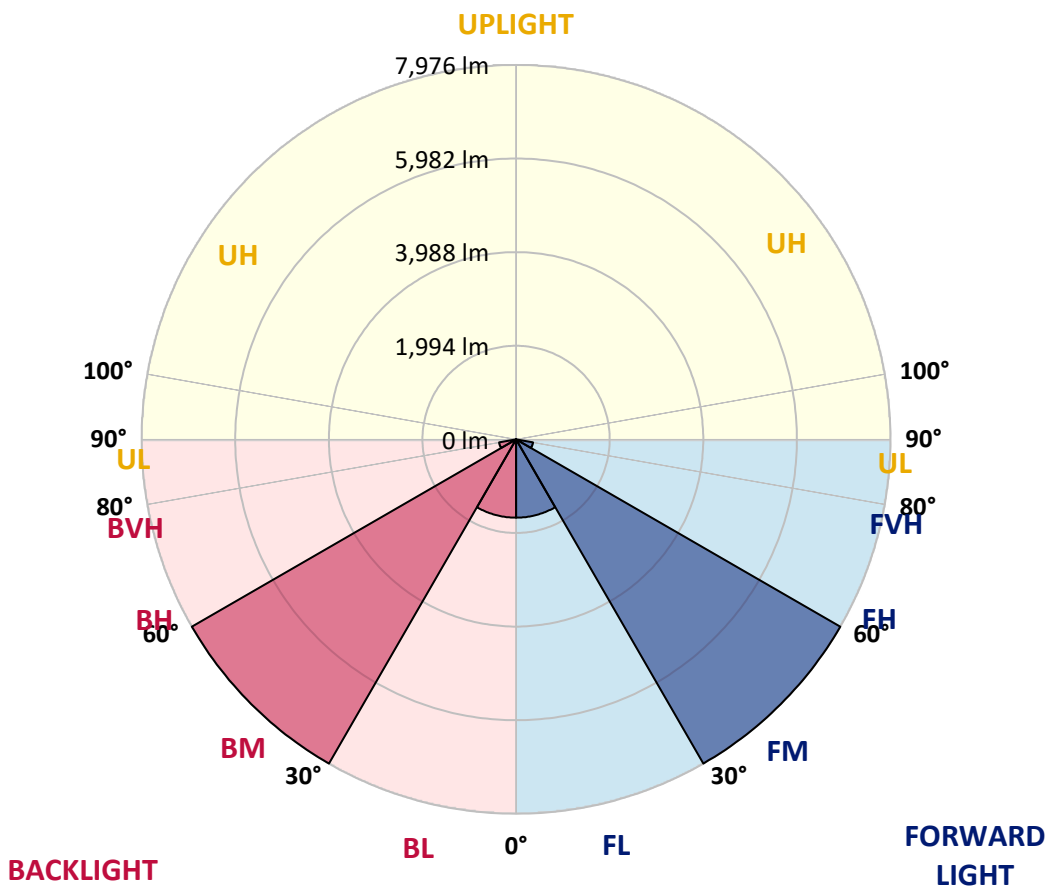
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.4	8.3			
FM (30°-60°)	7975.7	39.8			
FH (60°-80°)	367.3	1.8			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	1668.4	8.3	B3/2500		
BM (30°-60°)	7975.7	39.8	B4/8500		
BH (60°-80°)	367.3	1.8	B1/500		G0/660
BVH (80°-90°)	0.7	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-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5
2.5°	3231.4	3231.4	3239.6	3245.7	3245.7	3262.0	3255.9	3249.8	3249.8	3241.6	3257.9
5°	3278.3	3276.3	3284.4	3288.5	3280.4	3296.7	3286.5	3280.4	3276.3	3268.1	3284.4
7.5°	3329.3	3331.4	3333.4	3341.6	3337.5	3353.8	3345.6	3333.4	3329.3	3317.1	3333.4
10°	3390.5	3390.5	3394.6	3404.8	3406.8	3427.2	3419.1	3404.8	3392.6	3380.3	3396.6
12.5°	3468.1	3470.1	3476.2	3490.5	3498.7	3521.1	3508.9	3480.3	3461.9	3447.7	3466.0
15°	3580.3	3578.2	3586.4	3606.8	3617.0	3633.3	3614.9	3576.2	3553.7	3537.4	3549.7
17.5°	3702.7	3702.7	3706.7	3727.1	3741.4	3765.9	3743.5	3696.5	3676.1	3653.7	3665.9
20°	3837.3	3843.4	3847.5	3861.8	3886.3	3910.7	3892.4	3845.5	3823.0	3794.5	3808.7
22.5°	4014.8	4008.7	4010.7	4035.2	4069.9	4094.3	4080.1	4025.0	3986.2	3963.8	3971.9
25°	4212.7	4210.6	4216.7	4253.5	4292.2	4318.7	4298.3	4226.9	4188.2	4149.4	4165.7
27.5°	4455.4	4457.5	4461.5	4506.4	4567.6	4606.4	4555.4	4484.0	4430.9	4379.9	4392.2
30°	4743.1	4739.0	4751.2	4812.4	4902.2	4963.4	4904.2	4804.3	4728.8	4679.8	4685.9
32.5°	5049.1	5053.2	5085.8	5183.7	5302.0	5410.2	5289.8	5157.2	5059.3	4967.5	4979.7
35°	5379.6	5389.8	5463.2	5608.0	5801.8	5946.7	5779.4	5561.1	5422.4	5304.1	5308.2
37.5°	5769.2	5793.7	5895.7	6111.9	6389.4	6583.2	6338.4	6048.7	5869.2	5722.3	5712.1
40°	6281.3	6309.8	6448.5	6705.6	7042.2	7219.7	6936.1	6638.3	6415.9	6256.8	6232.3
42.5°	6868.8	6905.5	7056.5	7319.6	7656.2	7776.6	7499.1	7248.2	7048.3	6860.6	6852.5
45°	7531.8	7552.2	7674.6	7876.6	8119.3	8147.9	7939.8	7801.1	7599.1	7423.7	7409.4
47.5°	8154.0	8174.4	8258.0	8362.1	8419.2	8317.2	8280.5	8219.3	7958.2	7741.9	7697.0
50°	8627.3	8643.6	8747.6	8788.4	8629.3	8413.1	8484.5	8353.9	8070.4	7827.6	7758.2
52.5°	8594.6	8635.4	8902.7	9135.3	9035.3	8859.8	8668.1	8386.6	7945.9	7613.4	7527.7
55°	7399.2	7454.3	8027.5	8792.5	9475.9	9551.4	8784.4	7876.6	7048.3	6560.7	6473.0
57.5°	4755.3	4769.6	5469.3	6542.4	8082.6	8568.1	7284.9	5938.5	4908.3	4371.8	4335.1
60°	1748.3	1719.7	2248.1	3137.6	4655.3	5169.4	4288.1	3002.9	2142.0	1762.6	1732.0
62.5°	420.2	424.3	526.3	789.5	1460.7	1807.5	1428.0	797.7	508.0	426.4	422.3
65°	212.2	208.1	210.1	226.4	312.1	373.3	306.0	216.2	208.1	210.1	208.1
67.5°	136.7	134.6	138.7	140.8	138.7	130.6	128.5	132.6	132.6	134.6	130.6
70°	83.6	81.6	85.7	91.8	87.7	77.5	81.6	85.7	81.6	79.6	79.6
72.5°	44.9	44.9	49.0	53.0	49.0	44.9	44.9	46.9	44.9	44.9	44.9
75°	20.4	20.4	22.4	24.5	20.4	20.4	20.4	20.4	20.4	20.4	20.4
77.5°	6.1	6.1	8.2	8.2	6.1	6.1	6.1	6.1	8.2	8.2	8.2
80°	2.0	4.1	4.1	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
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)