

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: P643901

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643901  
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-SAGF-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**

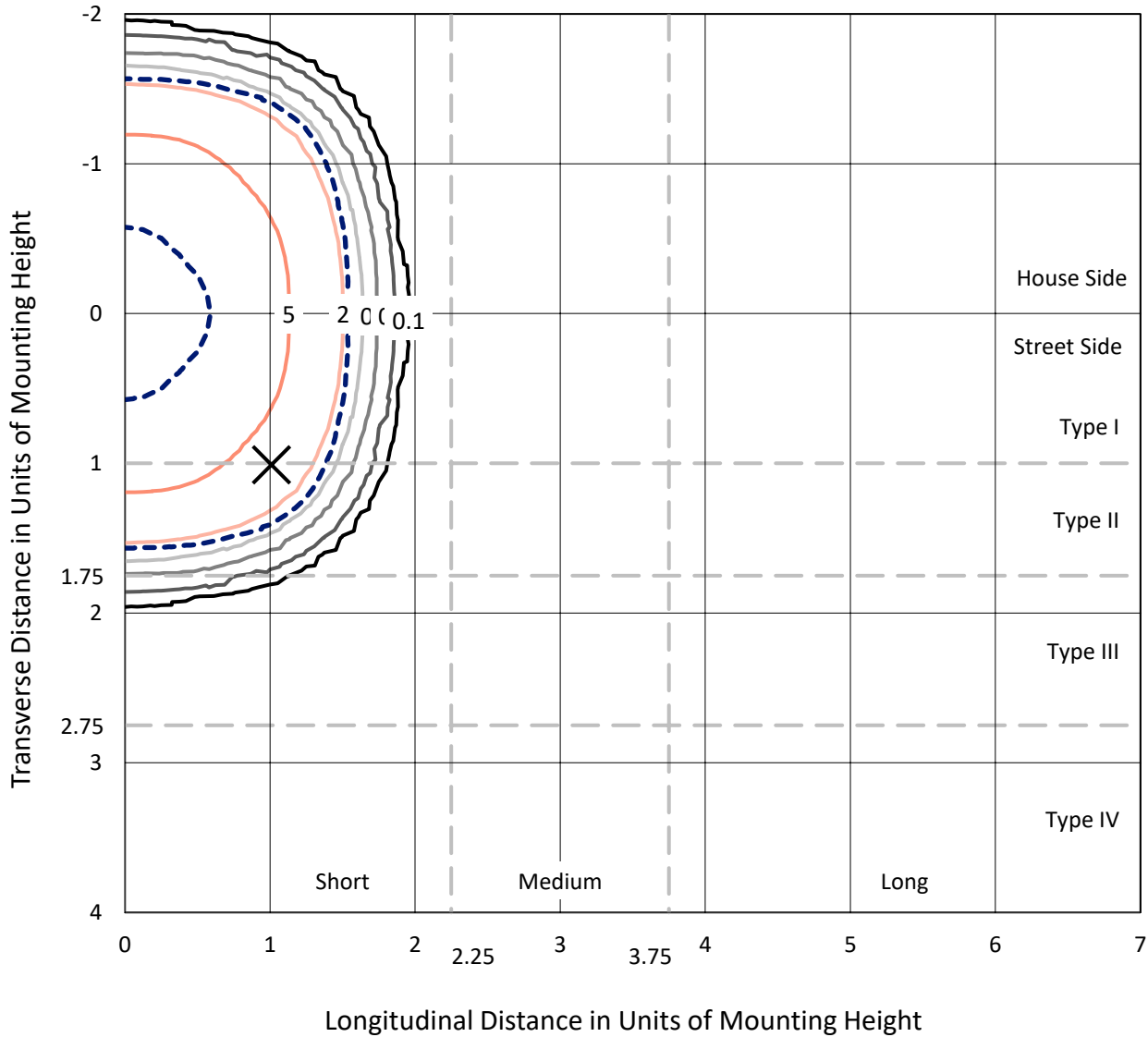
Lumens per Lamp: N/A  
Luminaire Lumens: 27821.3 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

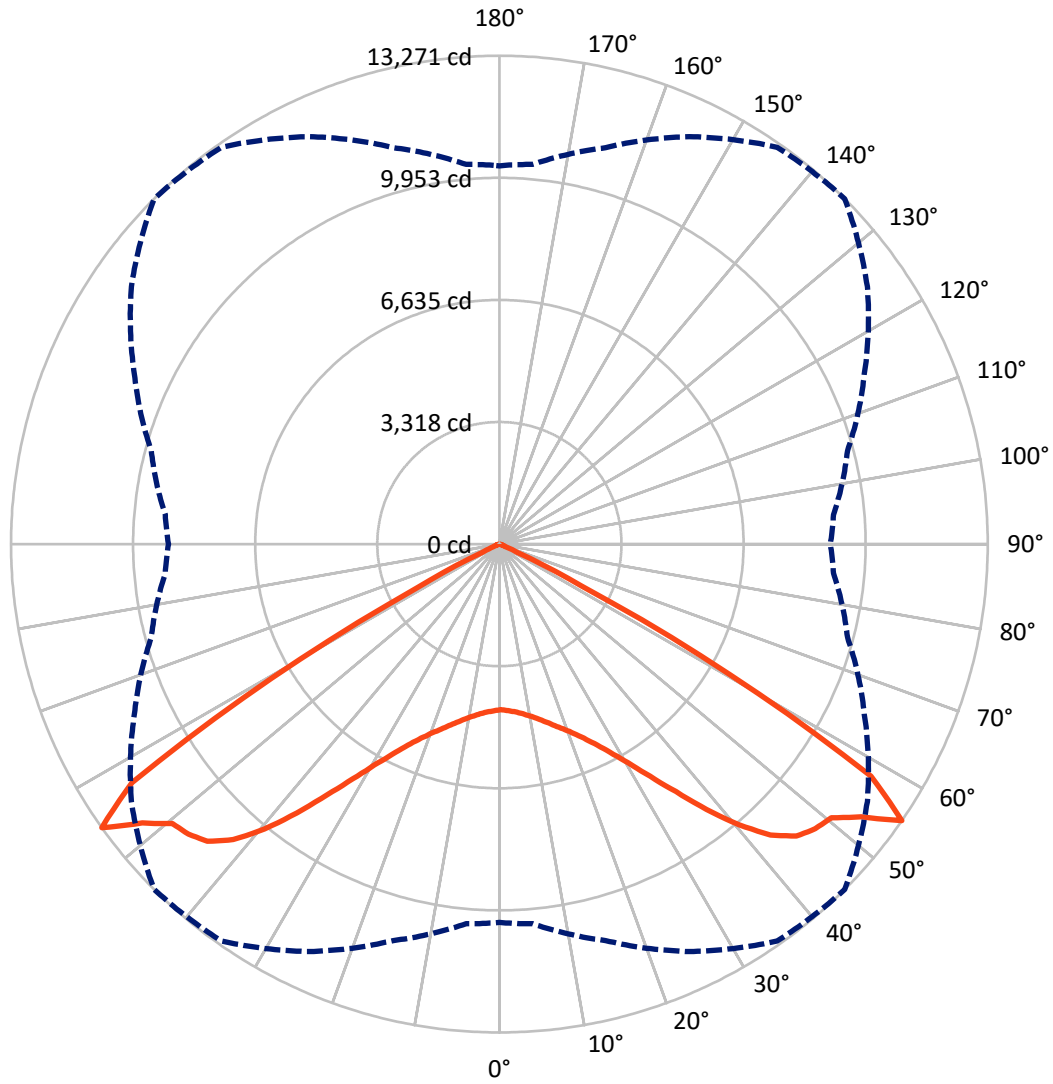
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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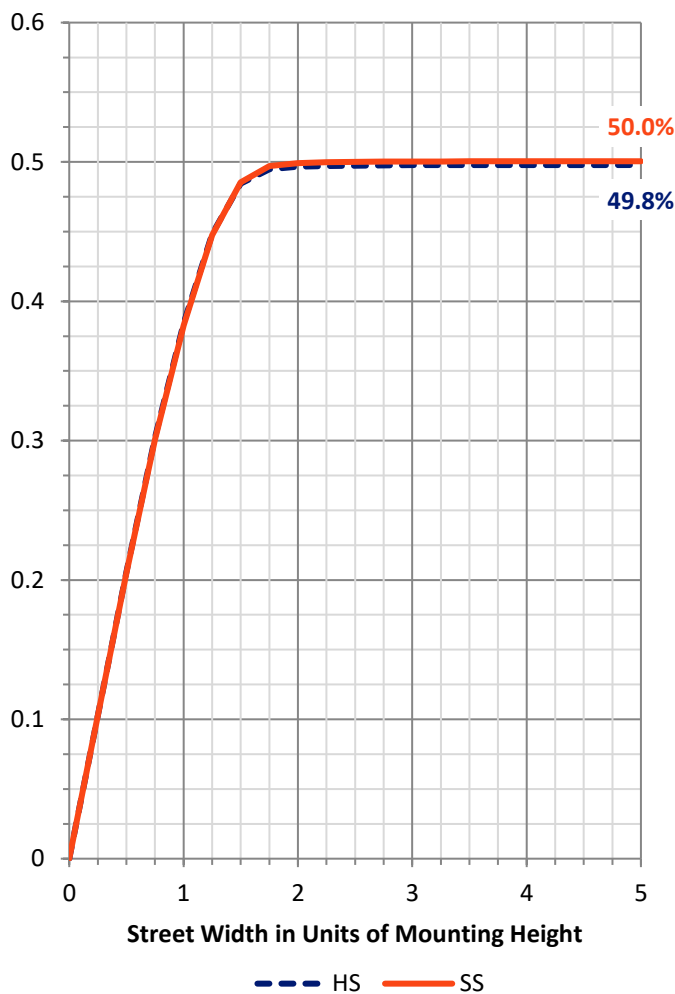
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13910.6	0.0	13910.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13910.6	0.0	13910.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27821.3	0.0	27821.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.7	1.6
10°-20°	1428.6	5.1
20°-30°	2766.7	9.9
30°-40°	4956.7	17.8
40°-50°	8310.3	29.9
50°-60°	8895.7	32.0
60°-70°	977.5	3.5
70°-80°	43.0	0.2
80°-90°	2.0	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°	27821.3	100.0
0°-180°	27821.3	100.0

**Coefficient of Utilization**



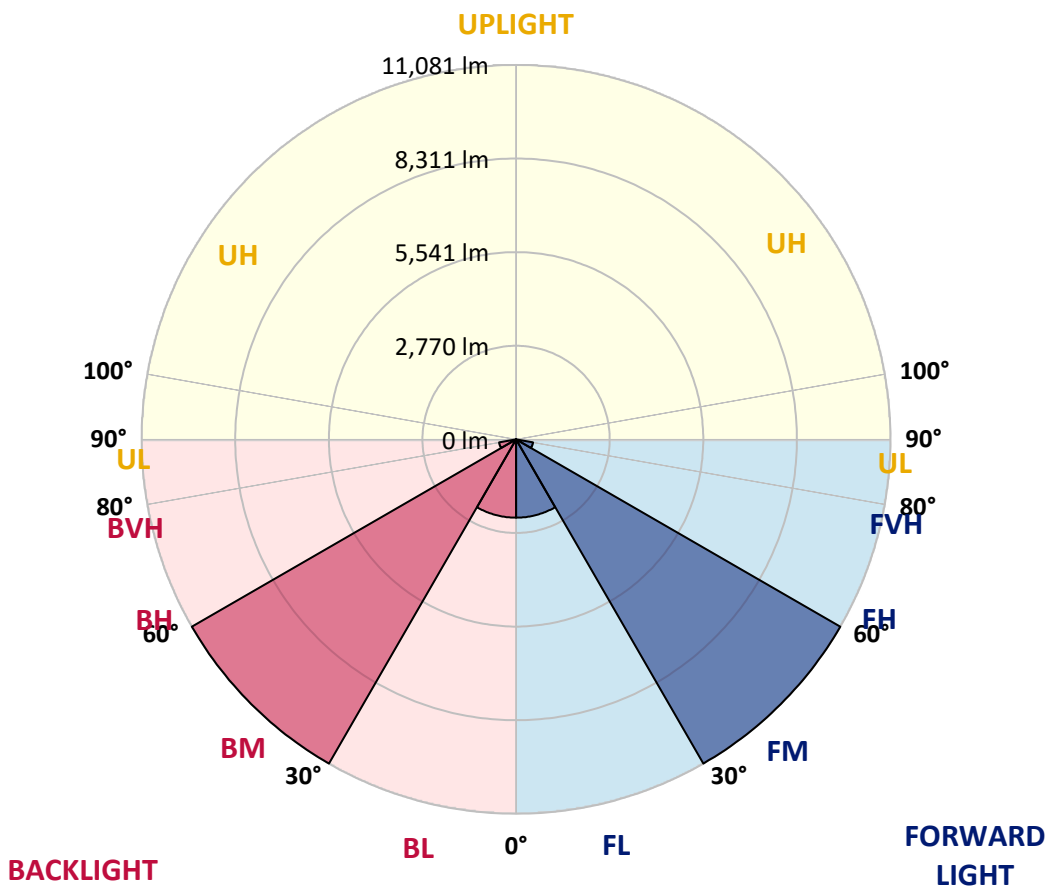
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.0	8.3			
FM (30°-60°)	11081.3	39.8			
FH (60°-80°)	510.3	1.8			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	2318.0	8.3	B3/2500		
BM (30°-60°)	11081.3	39.8	B5		
BH (60°-80°)	510.3	1.8	B2/1000		G0/660
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2	4498.2
2.5°	4489.7	4489.7	4501.0	4509.5	4509.5	4532.2	4523.7	4515.2	4515.2	4503.8	4526.5
5°	4554.9	4552.0	4563.4	4569.0	4557.7	4580.4	4566.2	4557.7	4552.0	4540.7	4563.4
7.5°	4625.7	4628.5	4631.4	4642.7	4637.1	4659.7	4648.4	4631.4	4625.7	4608.7	4631.4
10°	4710.7	4710.7	4716.4	4730.6	4733.4	4761.8	4750.4	4730.6	4713.6	4696.6	4719.2
12.5°	4818.5	4821.3	4829.8	4849.6	4861.0	4892.1	4875.1	4835.5	4810.0	4790.1	4815.6
15°	4974.3	4971.5	4982.8	5011.2	5025.4	5048.0	5022.5	4968.7	4937.5	4914.8	4931.8
17.5°	5144.4	5144.4	5150.1	5178.4	5198.3	5232.3	5201.1	5135.9	5107.6	5076.4	5093.4
20°	5331.5	5340.0	5345.6	5365.5	5399.5	5433.5	5408.0	5342.8	5311.6	5272.0	5291.8
22.5°	5578.1	5569.6	5572.4	5606.4	5654.6	5688.6	5668.8	5592.2	5538.4	5507.2	5518.5
25°	5853.0	5850.2	5858.7	5909.7	5963.5	6000.4	5972.0	5872.8	5819.0	5765.1	5787.8
27.5°	6190.3	6193.1	6198.8	6261.2	6346.2	6400.0	6329.2	6230.0	6156.3	6085.4	6102.4
30°	6589.9	6584.3	6601.3	6686.3	6811.0	6896.1	6813.9	6675.0	6570.1	6502.1	6510.6
32.5°	7015.1	7020.8	7066.1	7202.2	7366.6	7516.8	7349.6	7165.3	7029.3	6901.7	6918.7
35°	7474.3	7488.4	7590.5	7791.7	8061.0	8262.2	8029.8	7726.5	7533.8	7369.4	7375.1
37.5°	8015.6	8049.7	8191.4	8491.8	8877.3	9146.6	8806.4	8403.9	8154.5	7950.4	7936.3
40°	8727.1	8766.8	8959.5	9316.6	9784.3	10030.9	9636.9	9223.1	8914.1	8693.1	8659.0
42.5°	9543.4	9594.4	9804.1	10169.8	10637.4	10804.7	10419.2	10070.6	9792.8	9532.0	9520.7
45°	10464.5	10492.9	10663.0	10943.6	11280.8	11320.5	11031.4	10838.7	10558.1	10314.3	10294.5
47.5°	11329.0	11357.4	11473.6	11618.1	11697.5	11555.8	11504.8	11419.7	11056.9	10756.5	10694.1
50°	11986.6	12009.3	12153.8	12210.5	11989.4	11689.0	11788.2	11606.8	11212.8	10875.5	10779.2
52.5°	11941.3	11997.9	12369.3	12692.4	12553.5	12309.7	12043.3	11652.2	11039.9	10577.9	10458.9
55°	10280.3	10356.8	11153.3	12216.2	13165.7	13270.6	12204.9	10943.6	9792.8	9115.4	8993.5
57.5°	6606.9	6626.8	7599.0	9089.9	11229.8	11904.4	10121.6	8250.9	6819.5	6074.1	6023.1
60°	2429.1	2389.4	3123.5	4359.3	6468.1	7182.3	5957.9	4172.2	2976.1	2448.9	2406.4
62.5°	583.9	589.6	731.3	1096.9	2029.4	2511.3	1984.1	1108.2	705.8	592.4	586.7
65°	294.8	289.1	291.9	314.6	433.7	518.7	425.2	300.4	289.1	291.9	289.1
67.5°	189.9	187.1	192.7	195.6	192.7	181.4	178.6	184.2	184.2	187.1	181.4
70°	116.2	113.4	119.0	127.5	121.9	107.7	113.4	119.0	113.4	110.5	110.5
72.5°	62.4	62.4	68.0	73.7	68.0	62.4	62.4	65.2	62.4	62.4	62.4
75°	28.3	28.3	31.2	34.0	28.3	28.3	28.3	28.3	28.3	28.3	28.3
77.5°	8.5	8.5	11.3	11.3	8.5	8.5	8.5	8.5	11.3	11.3	11.3
80°	2.8	5.7	5.7	2.8	2.8	2.8	2.8	2.8	5.7	5.7	5.7
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
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)