

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: P638788

Luminaire Tested: GWS-SA4F-750-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-750-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

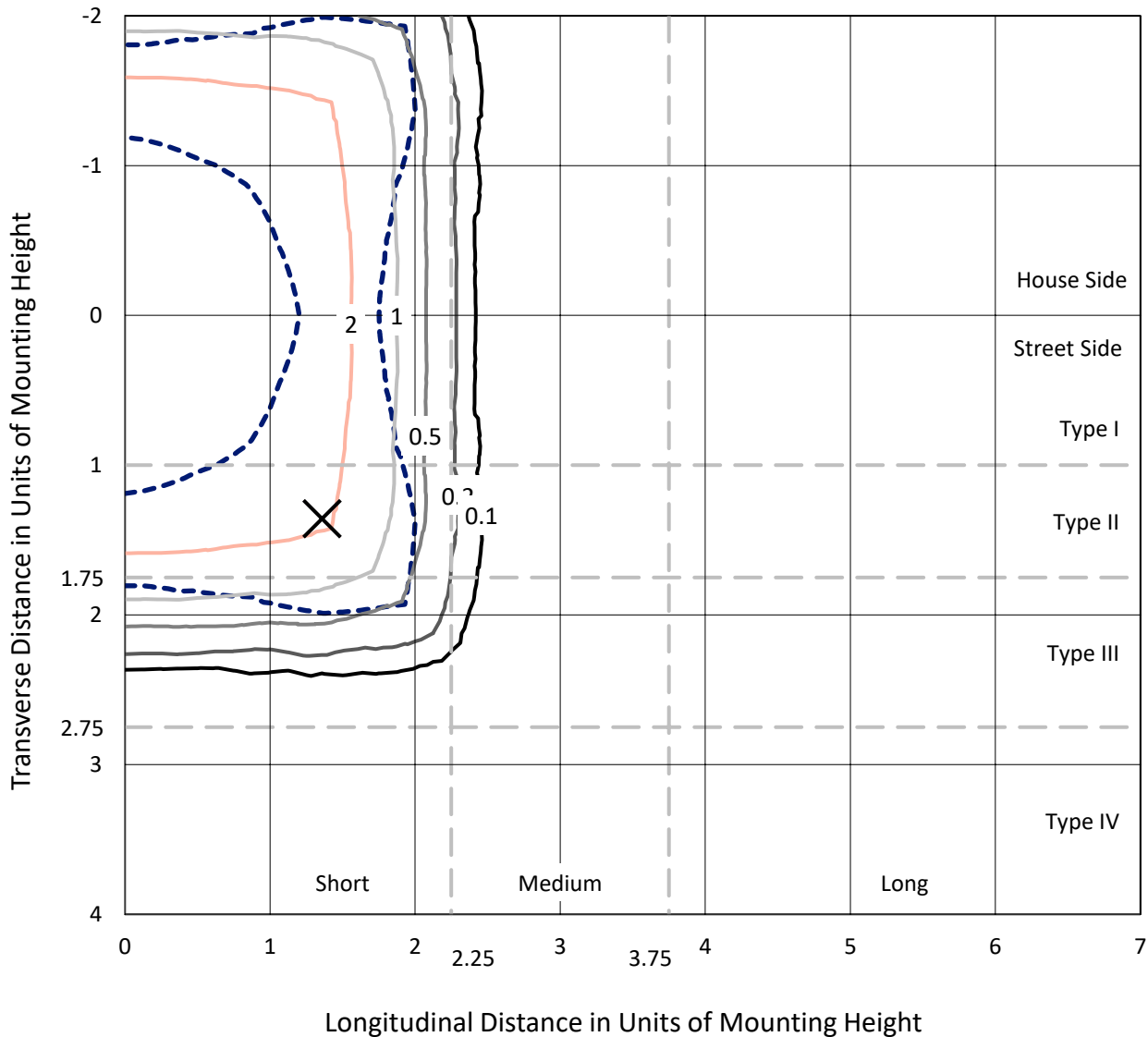
Lumens per Lamp: N/A  
Luminaire Lumens: 36377.4 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

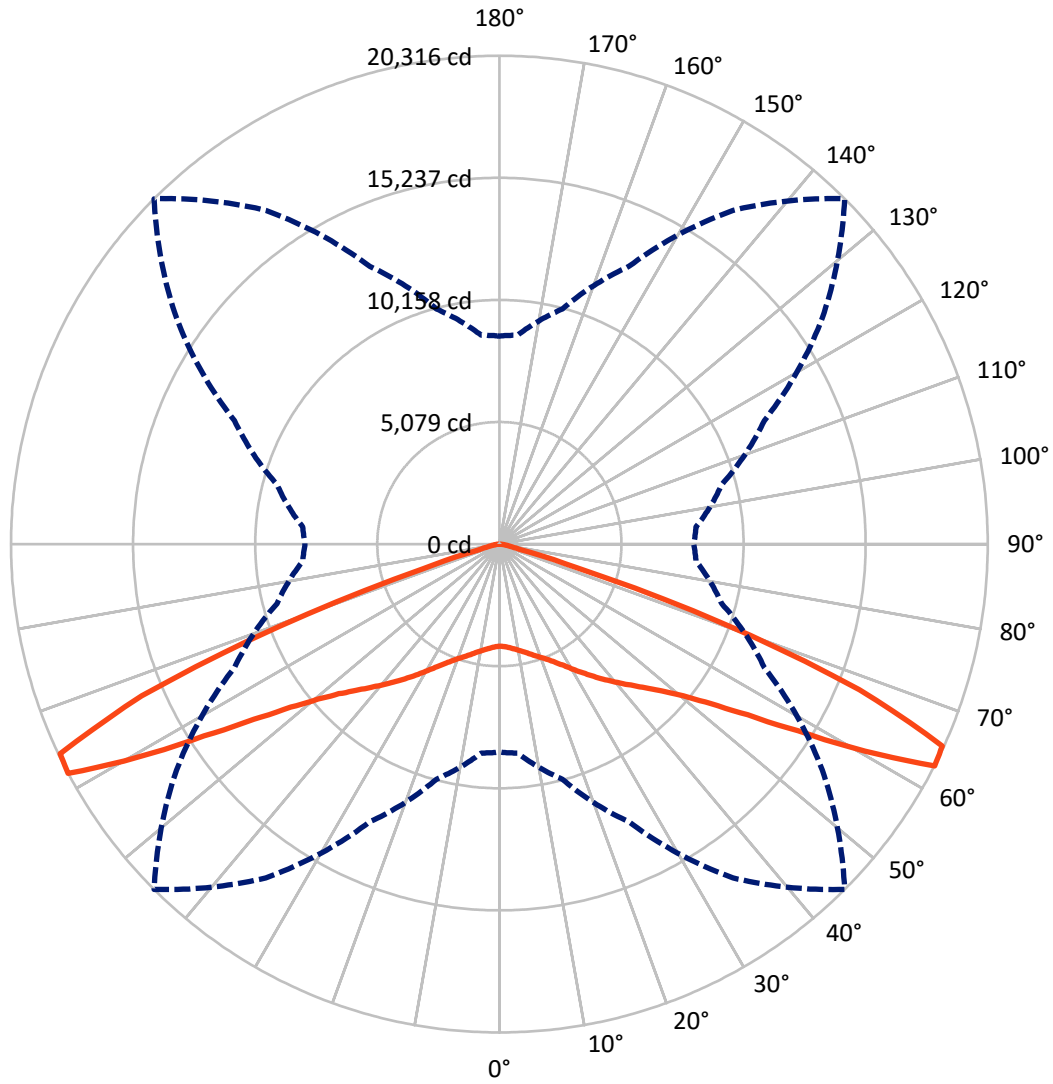
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18188.7	0.0	18188.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18188.7	0.0	18188.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36377.4	0.0	36377.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.4	1.1
10°-20°	1342.8	3.7
20°-30°	2540.4	7.0
30°-40°	4275.8	11.8
40°-50°	6831.5	18.8
50°-60°	11012.0	30.3
60°-70°	8984.6	24.7
70°-80°	872.5	2.4
80°-90°	101.5	0.3
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°	36377.4	100.0
0°-180°	36377.4	100.0

**Coefficient of Utilization**



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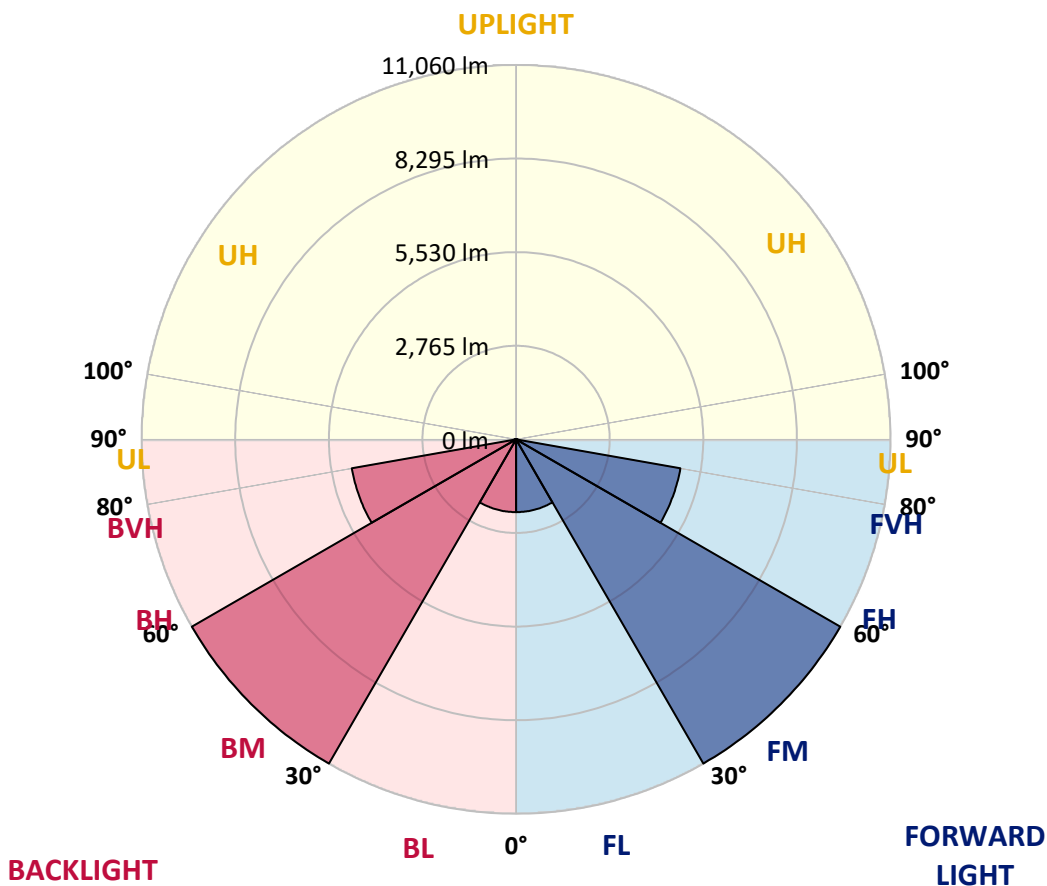
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.8	5.9			
FM (30°-60°)	11059.7	30.4			
FH (60°-80°)	4928.5	13.5			G2/5000
FVH (80°-90°)	50.8	0.1			G1/100
BL (0°-30°)	2149.8	5.9	B3/2500		
BM (30°-60°)	11059.7	30.4	B5		
BH (60°-80°)	4928.5	13.5	B4/5000		G2/5000
BVH (80°-90°)	50.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9	4243.9
2.5°	4238.9	4238.9	4248.9	4256.4	4251.4	4271.4	4268.9	4263.9	4261.4	4253.9	4276.3
5°	4296.3	4296.3	4303.8	4311.3	4298.8	4323.8	4313.8	4308.8	4306.3	4296.3	4316.3
7.5°	4361.2	4368.7	4371.2	4383.6	4376.1	4403.6	4396.1	4386.1	4381.1	4368.7	4386.1
10°	4433.5	4438.5	4441.0	4463.5	4466.0	4498.4	4490.9	4478.4	4468.5	4456.0	4480.9
12.5°	4530.8	4533.3	4540.8	4568.3	4575.7	4600.7	4598.2	4580.7	4568.3	4550.8	4578.2
15°	4655.6	4658.1	4670.6	4698.0	4710.5	4740.4	4730.4	4703.0	4685.5	4665.6	4688.0
17.5°	4785.3	4795.3	4807.8	4835.2	4852.7	4887.6	4875.1	4845.2	4830.2	4810.3	4825.2
20°	4952.5	4955.0	4962.5	4992.4	5004.9	5044.8	5047.3	5017.3	5009.9	4989.9	5012.4
22.5°	5137.1	5139.6	5147.1	5179.5	5202.0	5226.9	5241.9	5224.4	5212.0	5187.0	5214.5
25°	5341.7	5366.6	5374.1	5414.0	5439.0	5454.0	5471.4	5463.9	5446.5	5416.5	5429.0
27.5°	5628.6	5633.6	5646.1	5691.0	5706.0	5720.9	5738.4	5740.9	5715.9	5681.0	5698.5
30°	5955.5	5953.0	5980.4	6015.3	6027.8	6040.3	6065.2	6080.2	6047.8	6010.3	6027.8
32.5°	6289.8	6319.7	6354.6	6387.1	6379.6	6384.6	6424.5	6451.9	6407.0	6339.7	6354.6
35°	6666.5	6686.5	6731.4	6778.8	6768.8	6761.3	6786.3	6813.7	6751.3	6664.0	6686.5
37.5°	7053.2	7083.2	7150.5	7207.9	7192.9	7158.0	7185.5	7215.4	7155.5	7055.7	7045.7
40°	7484.9	7532.3	7629.6	7677.0	7637.0	7569.7	7617.1	7689.4	7629.6	7514.8	7487.4
42.5°	7991.3	8048.7	8146.0	8218.4	8131.1	8021.3	8101.1	8205.9	8190.9	8038.7	7991.3
45°	8617.6	8655.0	8774.7	8809.7	8679.9	8527.7	8672.5	8832.1	8794.7	8630.0	8567.7
47.5°	9298.7	9356.1	9460.9	9525.7	9316.2	9126.5	9328.6	9543.2	9503.3	9348.6	9276.2
50°	10166.9	10241.8	10379.0	10433.9	10144.5	9927.4	10186.9	10458.8	10381.5	10174.4	10079.6
52.5°	11112.5	11172.4	11406.9	11516.7	11244.8	11010.2	11237.3	11504.2	11339.6	11065.1	10937.9
55°	11945.8	12005.7	12350.0	12714.3	12701.8	12539.6	12654.4	12659.4	12212.8	11758.7	11624.0
57.5°	12125.5	12185.3	12841.5	13794.6	14468.2	14655.4	14318.5	13610.0	12484.7	11688.9	11536.7
60°	11167.4	11234.8	12277.7	14019.1	16234.7	17484.6	15932.8	13590.0	11643.9	10566.1	10421.4
62.5°	8652.5	8724.8	10127.0	12741.7	16948.2	20316.4	16401.8	12160.4	9578.1	8213.4	8086.1
65°	4131.6	4131.6	5913.0	9139.0	15526.1	20249.0	15044.6	8996.8	5765.8	4428.5	4318.8
67.5°	1022.9	1027.9	1521.9	3557.8	10561.1	16159.8	10733.3	4318.8	2030.9	1437.1	1399.7
70°	638.7	636.2	706.1	963.1	3695.0	9807.7	4388.6	1302.4	825.8	728.5	723.5
72.5°	496.5	496.5	531.4	616.3	968.0	3340.7	1279.9	723.5	598.8	538.9	538.9
75°	391.7	391.7	416.7	461.6	571.3	860.8	681.1	536.4	464.1	424.1	419.2
77.5°	291.9	296.9	316.9	346.8	389.2	484.0	431.6	404.2	361.8	331.8	321.8
80°	189.6	197.1	222.1	239.5	254.5	319.4	281.9	294.4	274.4	239.5	234.5
82.5°	102.3	104.8	134.7	139.7	144.7	174.6	179.6	187.1	194.6	152.2	142.2
85°	37.4	37.4	44.9	52.4	57.4	62.4	84.8	104.8	109.8	87.3	84.8
87.5°	7.5	7.5	7.5	5.0	5.0	5.0	15.0	27.4	44.9	34.9	34.9
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)