

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: P638845

Luminaire Tested: GWS-SA4F-760-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

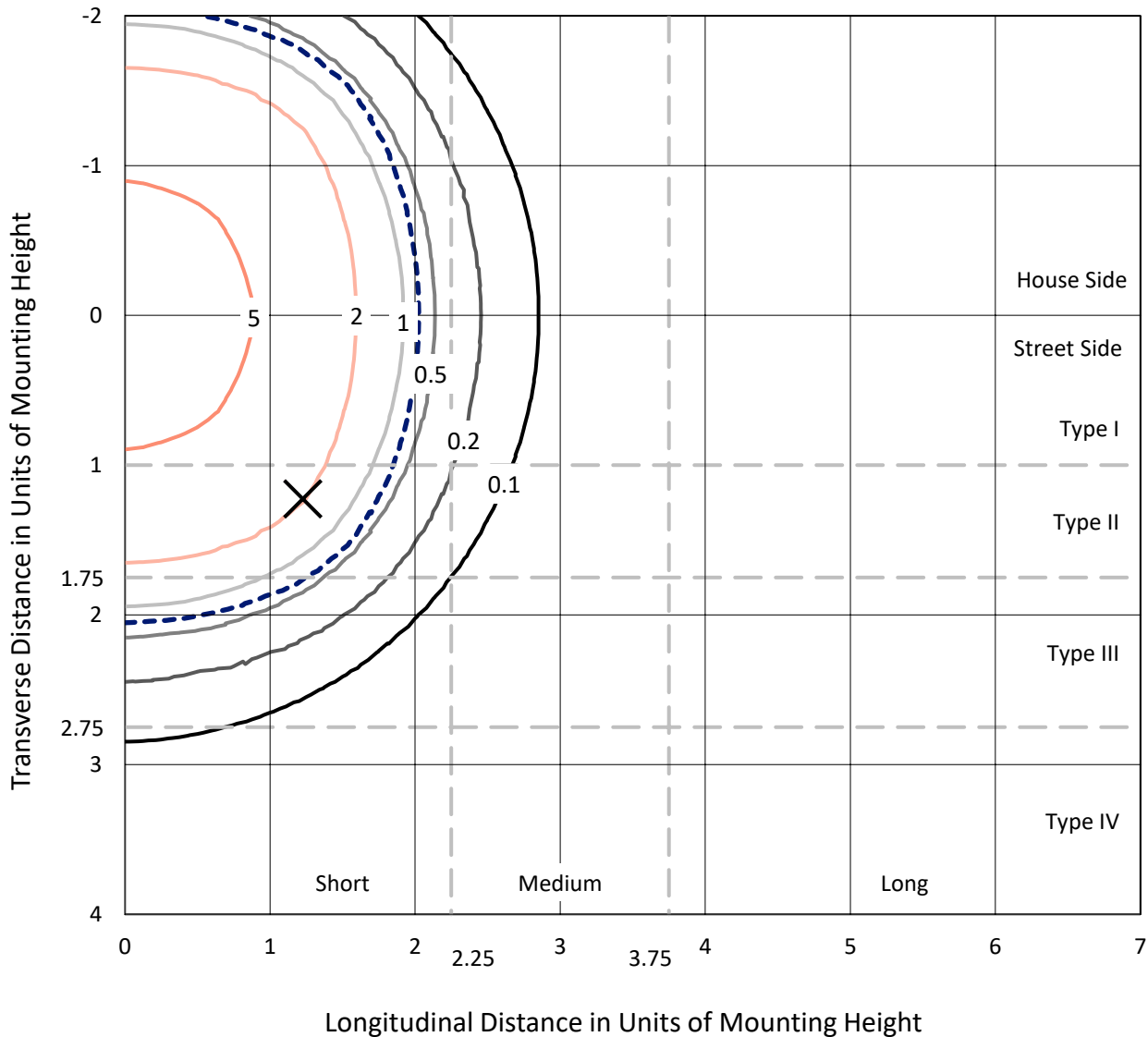
Lumens per Lamp: N/A  
Luminaire Lumens: 28991 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

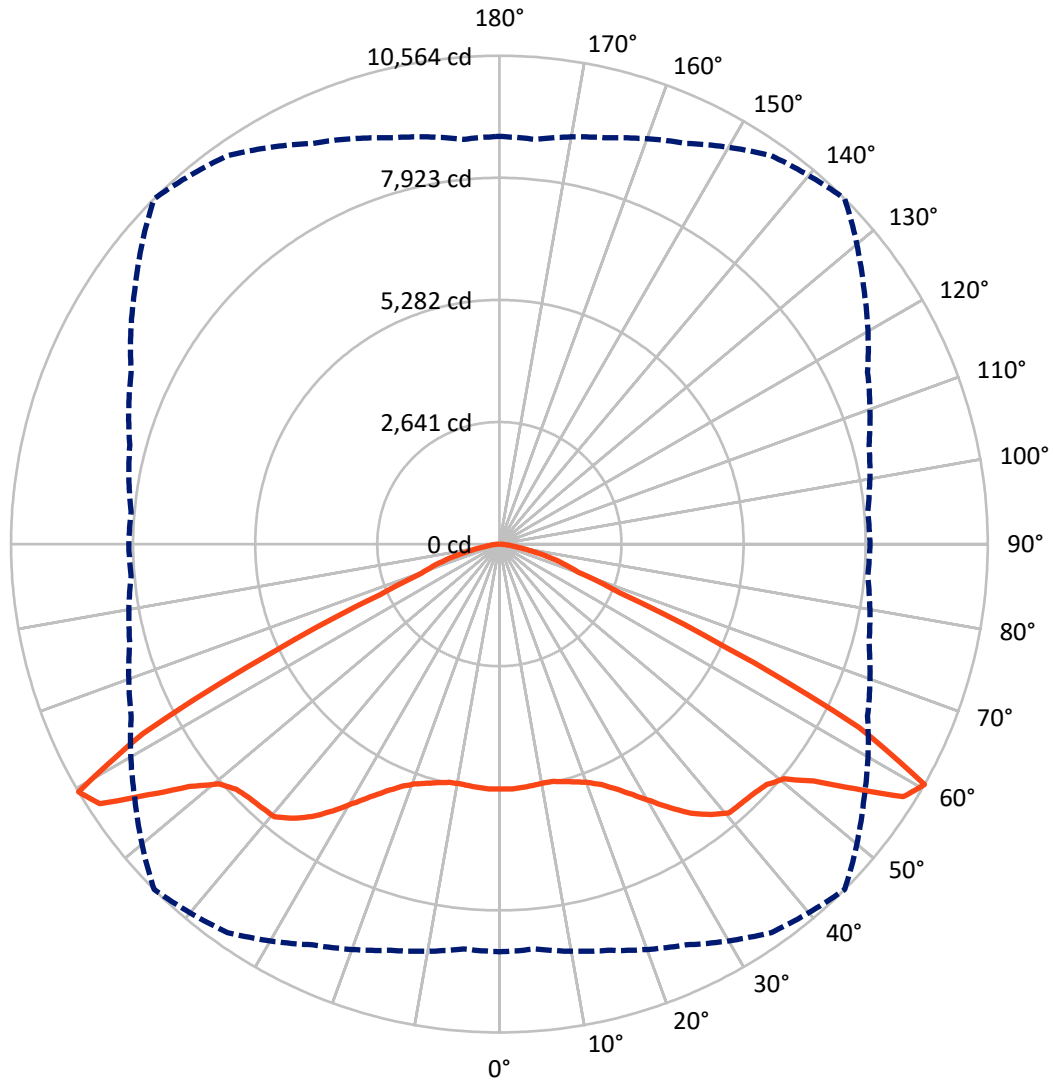
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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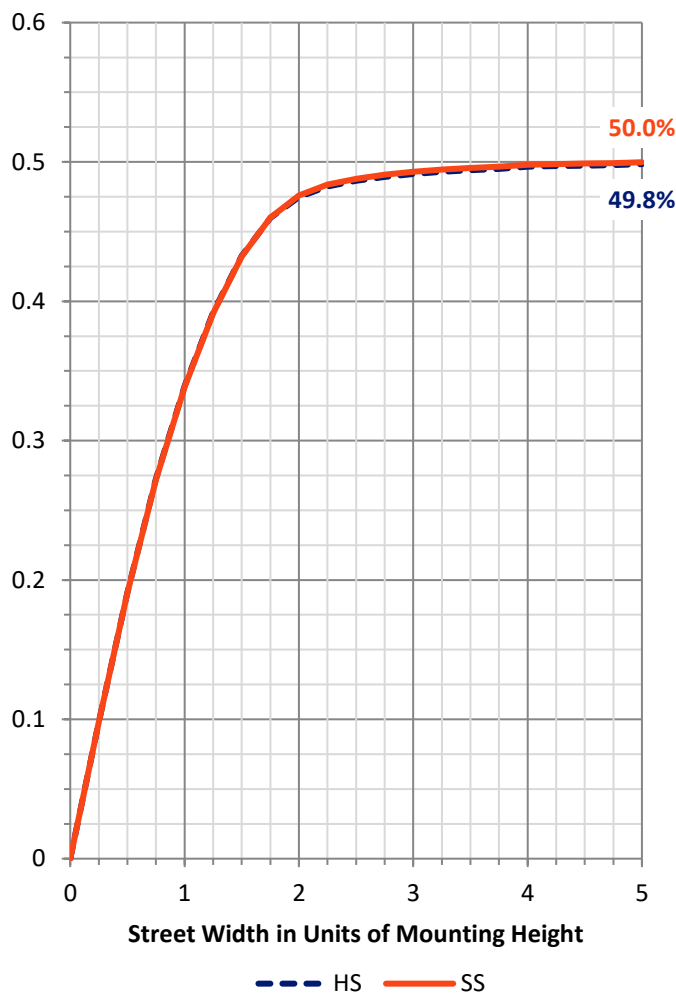
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14495.5	0.0	14495.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14495.5	0.0	14495.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28991.0	0.0	28991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.4	1.7
10°-20°	1511.3	5.2
20°-30°	2673.7	9.2
30°-40°	4304.7	14.8
40°-50°	5916.8	20.4
50°-60°	7884.7	27.2
60°-70°	4914.1	17.0
70°-80°	1130.0	3.9
80°-90°	153.3	0.5
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°	28991.0	100.0
0°-180°	28991.0	100.0

**Coefficient of Utilization**



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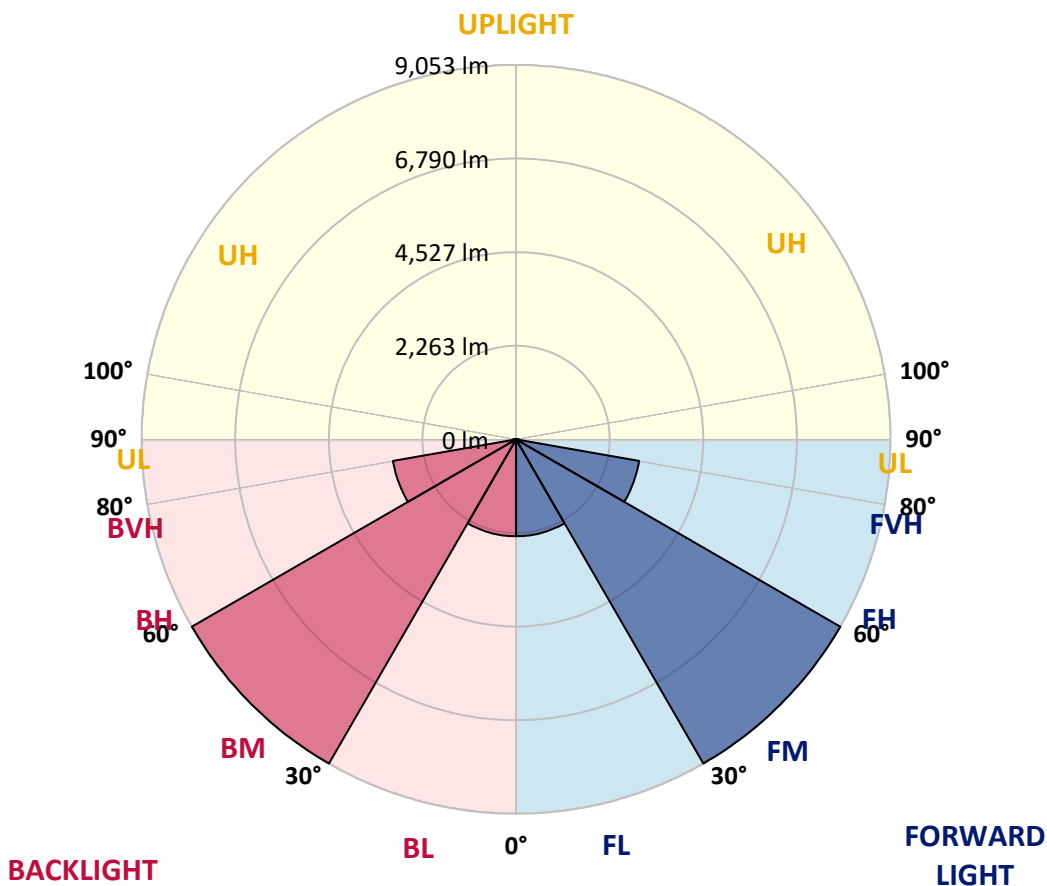
CATALOG NUMBER: GWS-SA4F-760-U-5WQ-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.7	8.1			
FM (30°-60°)	9053.1	31.2			
FH (60°-80°)	3022.0	10.4			G2/5000
FVH (80°-90°)	76.7	0.3			G1/100
BL (0°-30°)	2343.7	8.1	B3/2500		
BM (30°-60°)	9053.1	31.2	B5		
BH (60°-80°)	3022.0	10.4	B4/5000		G2/5000
BVH (80°-90°)	76.7	0.3			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°	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1	5298.1
2.5°	5261.2	5266.1	5275.9	5283.3	5293.1	5303.0	5307.9	5298.1	5293.1	5273.5	5295.6
5°	5266.1	5271.0	5278.4	5278.4	5280.8	5288.2	5288.2	5275.9	5263.6	5241.5	5266.1
7.5°	5258.7	5263.6	5266.1	5263.6	5266.1	5268.5	5263.6	5248.8	5236.5	5216.9	5236.5
10°	5246.4	5251.3	5256.2	5251.3	5246.4	5253.8	5253.8	5243.9	5236.5	5216.9	5239.0
12.5°	5273.5	5280.8	5283.3	5271.0	5266.1	5268.5	5268.5	5258.7	5258.7	5241.5	5266.1
15°	5337.4	5342.4	5335.0	5320.2	5322.7	5330.1	5312.8	5288.2	5283.3	5275.9	5295.6
17.5°	5386.7	5391.6	5384.2	5374.3	5391.6	5408.8	5376.8	5330.1	5315.3	5310.4	5332.5
20°	5440.8	5448.2	5438.3	5450.6	5485.1	5504.8	5465.4	5401.4	5371.9	5364.5	5391.6
22.5°	5529.4	5539.2	5539.2	5566.3	5618.0	5650.0	5600.7	5514.6	5470.3	5458.0	5485.1
25°	5669.6	5677.0	5684.4	5738.5	5822.2	5866.5	5787.8	5669.6	5608.1	5588.4	5603.2
27.5°	5864.0	5876.3	5888.7	5967.4	6070.7	6134.7	6021.5	5873.9	5797.6	5758.2	5787.8
30°	6095.4	6112.6	6142.1	6230.7	6375.9	6447.2	6302.1	6122.4	6036.3	5994.5	6033.8
32.5°	6410.3	6412.8	6434.9	6533.4	6725.3	6806.5	6624.4	6425.1	6336.5	6287.3	6309.4
35°	6784.4	6786.8	6752.4	6853.3	7060.0	7151.0	6936.9	6735.2	6661.3	6646.6	6703.2
37.5°	7168.3	7146.1	7111.7	7156.0	7365.1	7424.2	7197.8	7025.5	6993.5	7020.6	7104.3
40°	7441.4	7404.5	7335.6	7367.6	7579.2	7648.1	7407.0	7244.5	7234.7	7301.1	7402.0
42.5°	7618.6	7579.2	7498.0	7498.0	7643.2	7672.7	7485.7	7399.6	7421.7	7498.0	7594.0
45°	7704.7	7682.6	7635.8	7611.2	7692.4	7704.7	7562.0	7527.5	7569.4	7606.3	7680.1
47.5°	7771.1	7771.1	7756.4	7731.8	7768.7	7776.1	7670.3	7660.4	7714.6	7714.6	7763.8
50°	7889.3	7901.6	7921.3	7916.3	7955.7	7980.3	7901.6	7886.8	7909.0	7837.6	7862.2
52.5°	8199.3	8231.3	8287.9	8332.2	8433.1	8509.4	8369.1	8251.0	8135.3	7977.9	7982.8
55°	8755.5	8770.2	8881.0	9011.4	9181.2	9336.2	9048.3	8681.6	8430.6	8246.1	8248.5
57.5°	9225.5	9247.6	9410.0	9683.2	10064.6	10305.8	9668.4	9055.7	8701.3	8474.9	8482.3
60°	8819.4	8789.9	9097.5	9565.1	10256.5	10564.1	9624.1	8787.5	8278.1	7997.5	8017.2
62.5°	6823.7	6767.2	7109.2	7598.9	8428.2	8735.8	7869.6	7067.4	6585.1	6366.0	6334.1
65°	4153.8	4102.1	4348.2	4648.4	5209.5	5403.9	5007.7	4582.0	4161.2	4028.3	3991.4
67.5°	2261.5	2254.1	2320.5	2468.2	2714.2	2805.3	2729.0	2527.2	2418.9	2325.4	2325.4
70°	1793.9	1779.1	1766.8	1769.3	1791.4	1803.8	1806.2	1796.4	1808.7	1811.1	1801.3
72.5°	1486.3	1481.4	1456.8	1459.2	1449.4	1444.5	1461.7	1471.5	1491.2	1493.7	1493.7
75°	1077.8	1065.5	1077.8	1080.3	1070.4	1070.4	1082.7	1080.3	1090.1	1095.0	1068.0
77.5°	612.7	612.7	630.0	649.6	664.4	664.4	676.7	676.7	689.0	686.6	681.6
80°	337.1	337.1	347.0	359.3	374.0	388.8	401.1	403.6	411.0	408.5	401.1
82.5°	191.9	194.4	199.3	206.7	221.5	233.8	246.1	248.5	255.9	255.9	248.5
85°	91.0	88.6	91.0	96.0	103.4	113.2	125.5	132.9	137.8	137.8	132.9
87.5°	17.2	19.7	17.2	19.7	22.1	29.5	34.5	39.4	46.8	49.2	44.3
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)