

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: P638949

Luminaire Tested: GWS-SA4F-830-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-830-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23666 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - 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

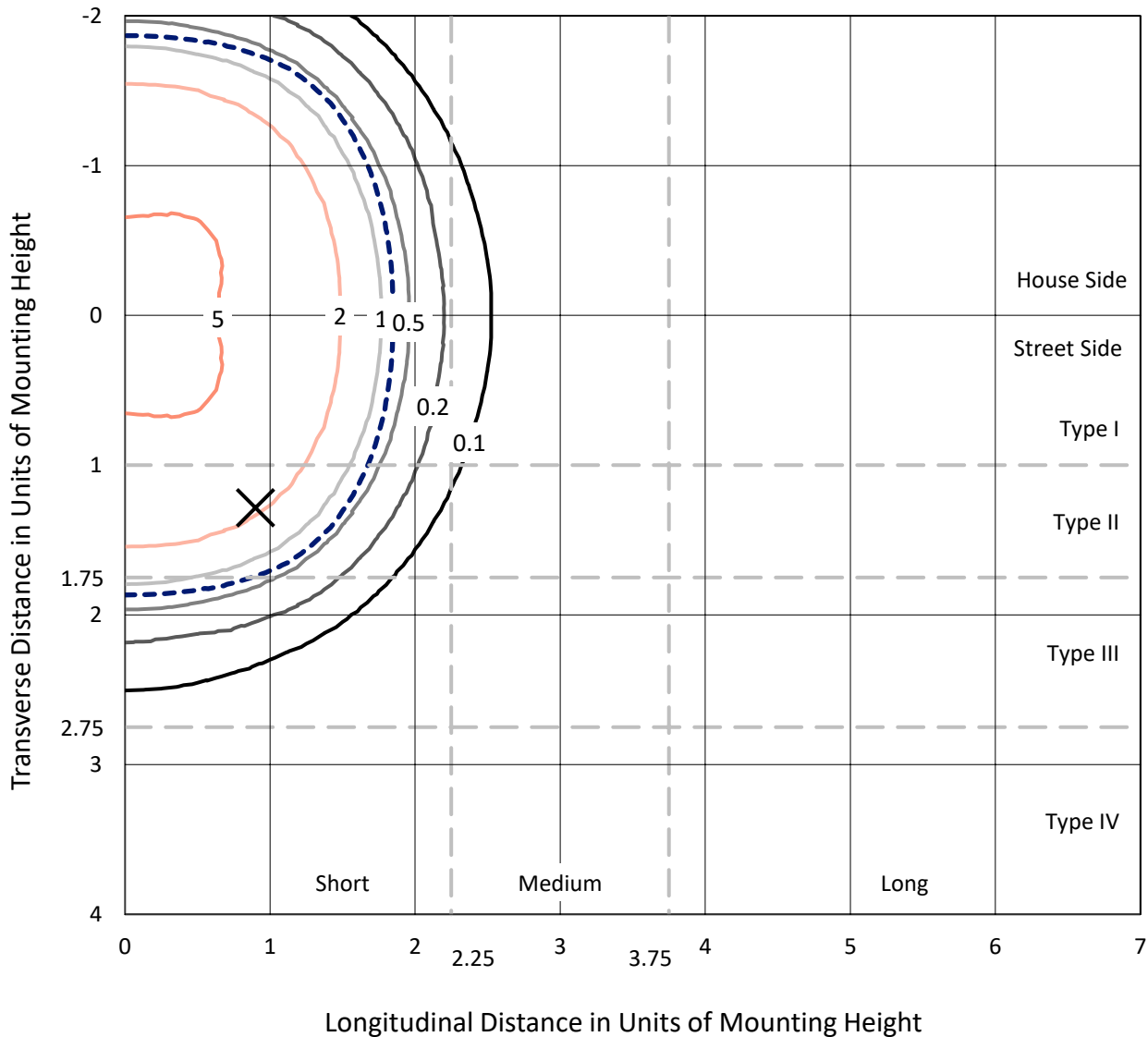


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### Iso-Footcandle Lines of Horizontal Illumination

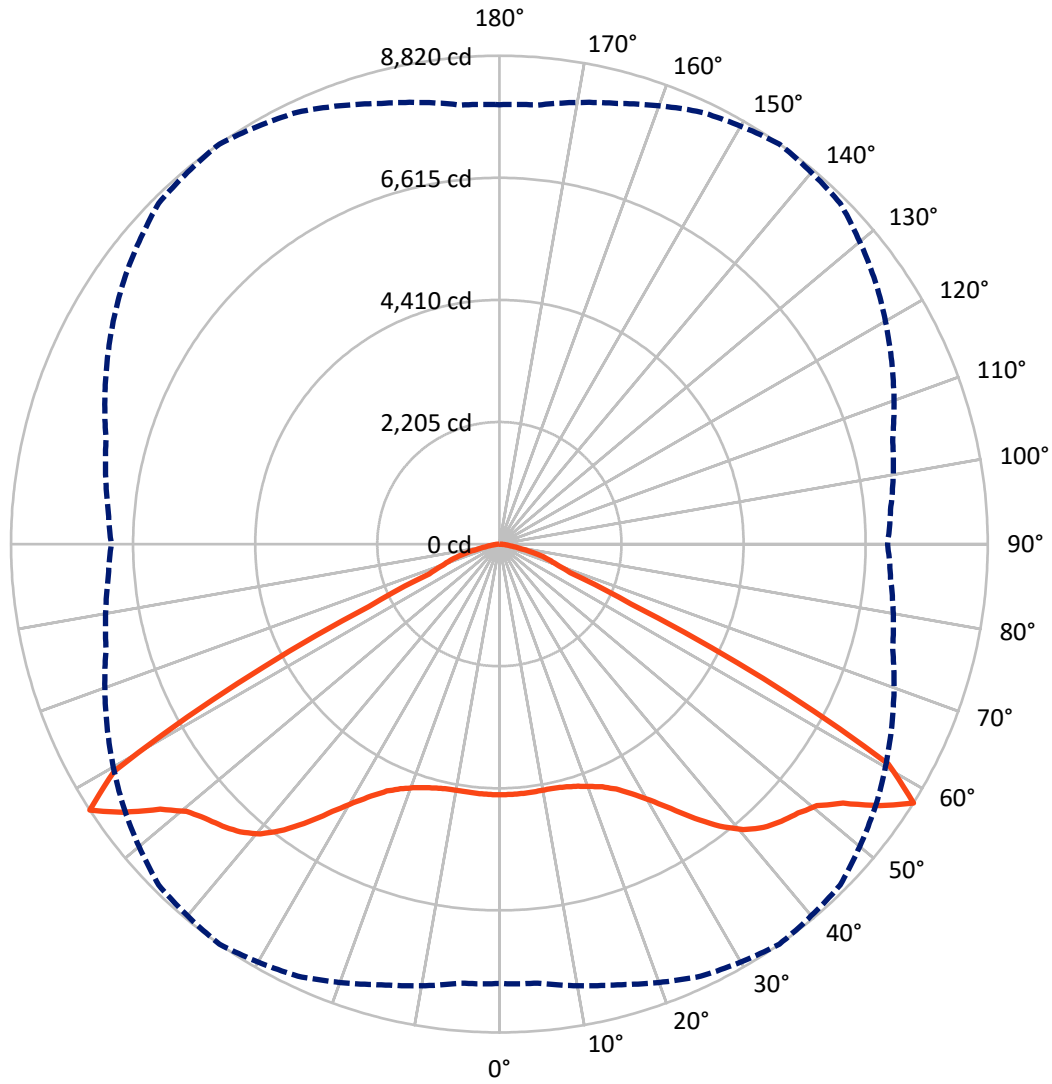
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11833.0	0.0	11833.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11833.0	0.0	11833.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23666.0	0.0	23666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.8	1.8
10°-20°	1285.2	5.4
20°-30°	2242.5	9.5
30°-40°	3677.2	15.5
40°-50°	5415.7	22.9
50°-60°	6911.3	29.2
60°-70°	2912.7	12.3
70°-80°	695.8	2.9
80°-90°	94.7	0.4
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°	23666.0	100.0
0°-180°	23666.0	100.0

**Coefficient of Utilization**



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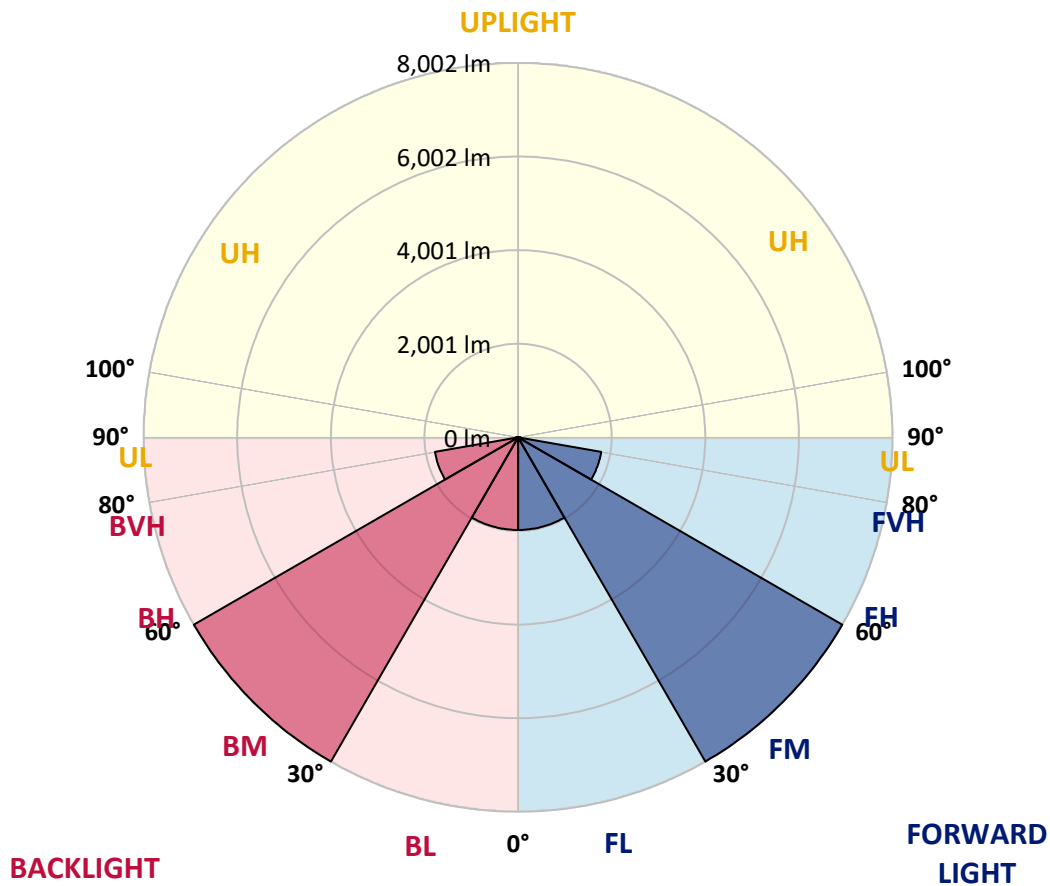
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.3	8.4			
FM (30°-60°)	8002.1	33.8			
FH (60°-80°)	1804.3	7.6			G2/5000
FVH (80°-90°)	47.4	0.2			G1/100
BL (0°-30°)	1979.3	8.4	B3/2500		
BM (30°-60°)	8002.1	33.8	B4/8500		
BH (60°-80°)	1804.3	7.6	B3/2500		G2/5000
BVH (80°-90°)	47.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2	4528.2
2.5°	4501.1	4501.1	4510.8	4520.5	4524.3	4541.8	4539.8	4534.0	4530.2	4518.5	4534.0
5°	4510.8	4510.8	4518.5	4524.3	4522.4	4536.0	4530.2	4520.5	4514.7	4503.0	4520.5
7.5°	4508.8	4508.8	4514.7	4520.5	4516.6	4528.2	4518.5	4505.0	4495.3	4483.7	4499.2
10°	4483.7	4487.5	4493.3	4506.9	4512.7	4530.2	4516.6	4495.3	4479.8	4466.2	4481.7
12.5°	4479.8	4483.7	4491.4	4508.8	4518.5	4543.7	4526.3	4491.4	4468.2	4450.7	4466.2
15°	4497.2	4501.1	4512.7	4534.0	4549.5	4576.7	4551.5	4503.0	4470.1	4446.8	4460.4
17.5°	4518.5	4524.3	4541.8	4572.8	4598.0	4627.0	4596.0	4537.9	4491.4	4460.4	4472.0
20°	4541.8	4549.5	4576.7	4623.2	4669.7	4706.5	4667.7	4590.2	4534.0	4493.3	4505.0
22.5°	4582.5	4592.2	4627.0	4692.9	4762.7	4816.9	4768.5	4663.9	4590.2	4537.9	4547.6
25°	4665.8	4677.4	4722.0	4801.4	4900.2	4966.1	4898.3	4780.1	4677.4	4613.5	4623.2
27.5°	4813.0	4818.9	4877.0	4981.6	5103.7	5179.3	5097.9	4958.4	4844.1	4770.4	4778.2
30°	5006.8	5024.2	5082.4	5219.9	5365.3	5466.0	5359.5	5194.8	5063.0	4973.9	4981.6
32.5°	5243.2	5254.8	5342.0	5485.4	5694.7	5810.9	5665.6	5469.9	5311.0	5202.5	5210.3
35°	5553.2	5562.9	5646.2	5828.4	6082.2	6190.7	6024.1	5799.3	5615.2	5512.5	5541.6
37.5°	5923.3	5940.7	6000.8	6181.0	6463.9	6570.5	6378.6	6169.4	5977.6	5882.6	5903.9
40°	6320.5	6318.6	6367.0	6525.9	6783.6	6849.5	6677.0	6510.4	6345.7	6283.7	6318.6
42.5°	6661.5	6651.8	6686.7	6818.5	6996.7	7002.6	6888.2	6795.2	6679.0	6636.3	6669.3
45°	6899.9	6903.7	6956.1	7047.1	7138.2	7089.8	7054.9	7039.4	6948.3	6890.2	6896.0
47.5°	7087.8	7103.3	7186.6	7248.6	7260.3	7178.9	7227.3	7250.6	7175.0	7085.9	7060.7
50°	7254.4	7279.6	7388.1	7454.0	7428.8	7326.1	7421.1	7456.0	7289.3	7118.8	7068.4
52.5°	7556.7	7585.8	7717.5	7802.8	7773.7	7671.0	7760.2	7636.2	7355.2	7145.9	7082.0
55°	8039.2	8052.7	8213.6	8353.1	8339.5	8213.6	8141.9	7866.7	7525.7	7308.7	7248.6
57.5°	7936.5	7959.7	8238.8	8610.8	8820.0	8705.7	8285.3	7816.4	7353.3	7091.7	7010.3
60°	6244.9	6301.1	6648.0	7302.9	8070.2	8068.3	7287.4	6558.8	6000.8	5654.0	5619.1
62.5°	3646.6	3685.4	4001.2	4663.9	5351.7	5394.3	4846.0	4346.1	3857.8	3623.3	3511.0
65°	1726.4	1724.5	1850.4	2148.8	2613.8	2650.7	2486.0	2212.8	1924.1	1844.6	1823.3
67.5°	1275.0	1275.0	1265.3	1286.6	1375.7	1395.1	1375.7	1331.1	1304.0	1321.5	1309.8
70°	1106.4	1108.3	1096.7	1090.9	1090.9	1085.1	1092.8	1110.3	1121.9	1145.1	1133.5
72.5°	897.1	899.1	899.1	901.0	902.9	895.2	906.8	916.5	918.4	926.2	918.4
75°	637.5	641.4	653.0	662.7	670.4	670.4	674.3	676.2	668.5	678.2	662.7
77.5°	350.7	354.6	375.9	393.3	410.8	412.7	418.5	422.4	418.5	426.3	414.7
80°	193.8	197.6	207.3	215.1	228.6	240.3	248.0	251.9	251.9	257.7	251.9
82.5°	110.4	114.3	120.1	124.0	135.6	145.3	153.1	158.9	158.9	160.8	156.9
85°	52.3	52.3	56.2	60.1	65.9	69.8	79.4	85.3	85.3	89.1	85.3
87.5°	7.8	9.7	11.6	11.6	15.5	19.4	23.3	25.2	29.1	31.0	31.0
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)