

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: P640989

Luminaire Tested: GWS-SA5F-722-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

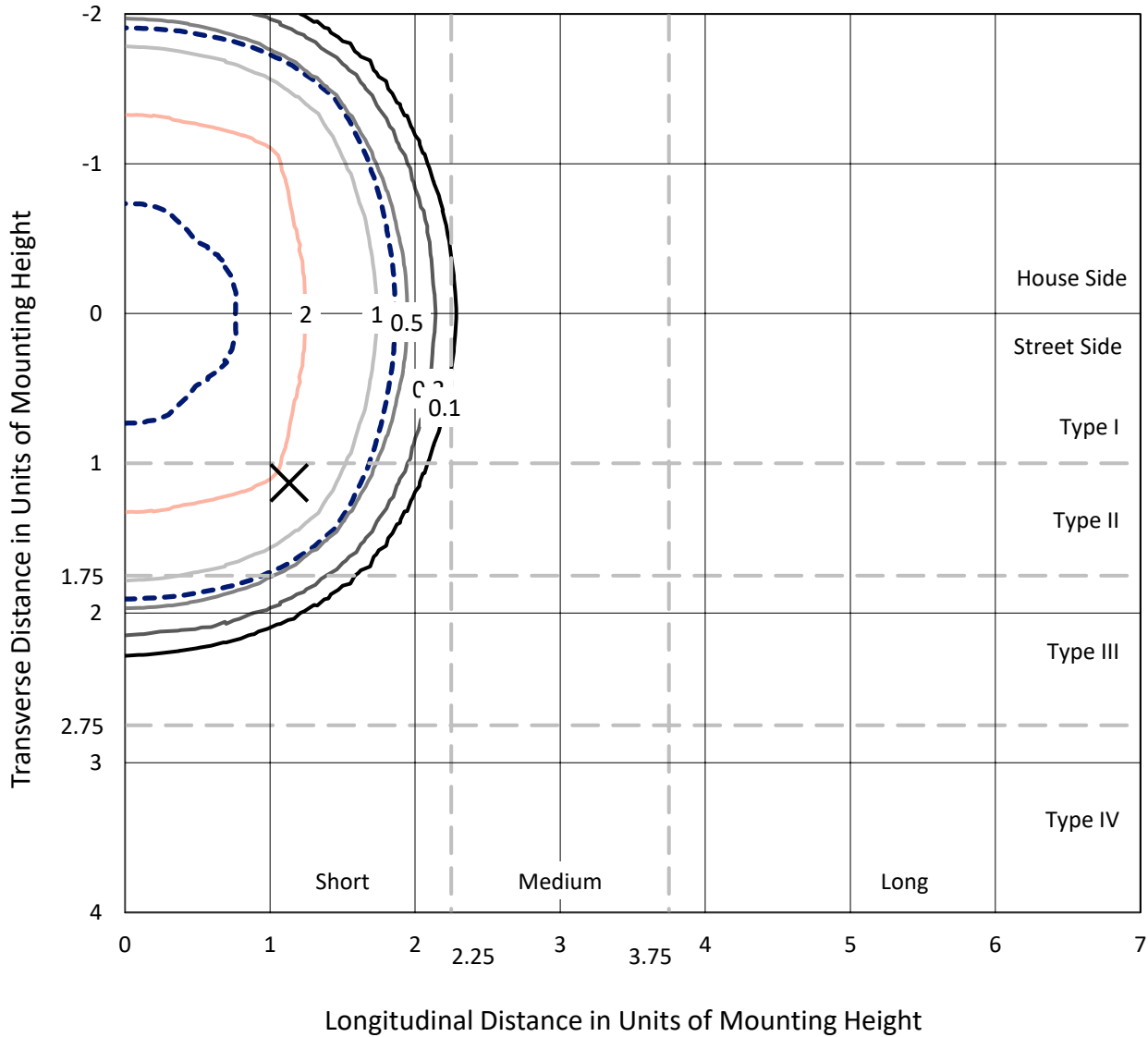
Lumens per Lamp: N/A  
Luminaire Lumens: 16179.3 lumens  
Efficiency: N/A  
Efficacy: 52.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

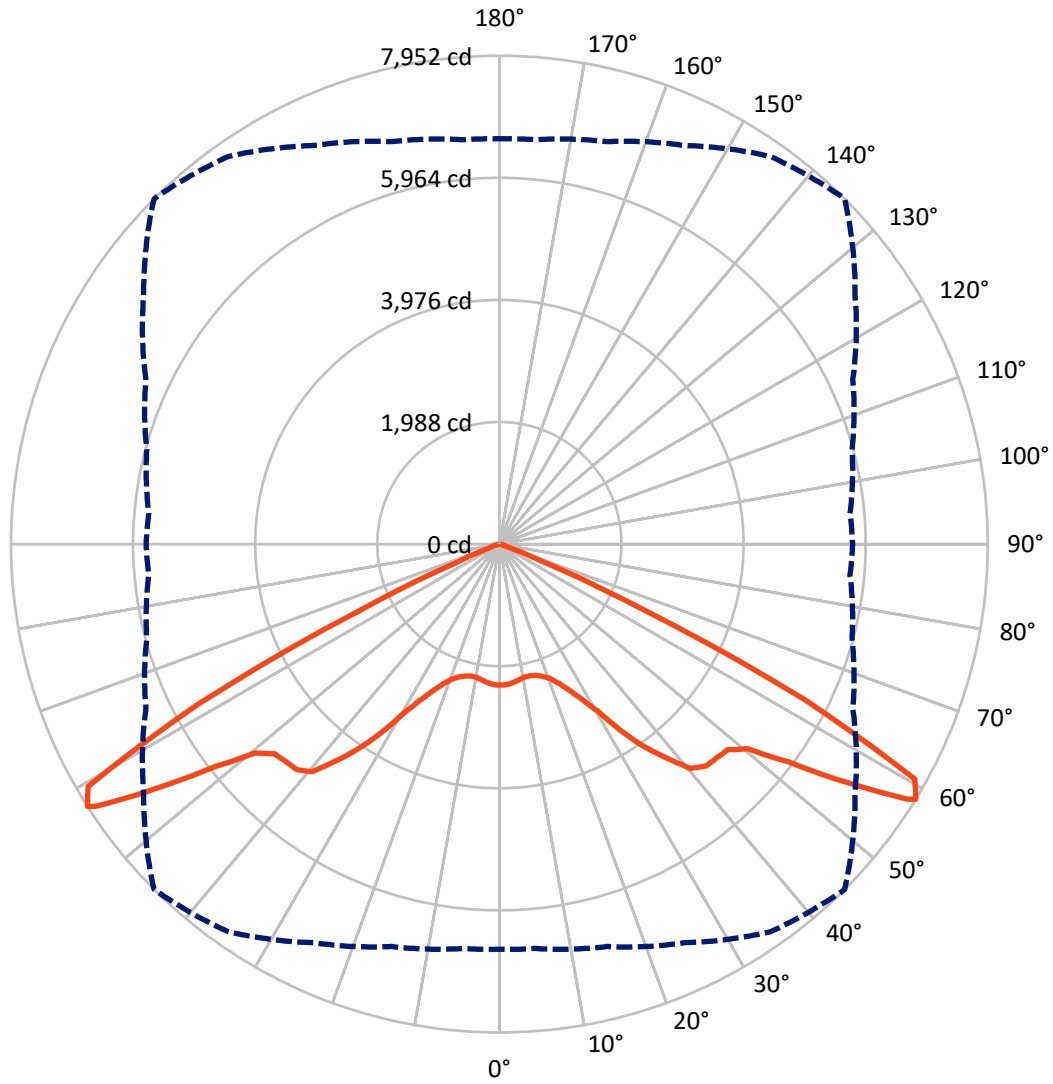
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8089.6	0.0	8089.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8089.6	0.0	8089.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16179.3	0.0	16179.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	1.3
10°-20°	633.4	3.9
20°-30°	1198.0	7.4
30°-40°	2362.7	14.6
40°-50°	3739.0	23.1
50°-60°	5496.1	34.0
60°-70°	2453.2	15.2
70°-80°	82.2	0.5
80°-90°	0.7	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°	16179.3	100.0
0°-180°	16179.3	100.0

**Coefficient of Utilization**



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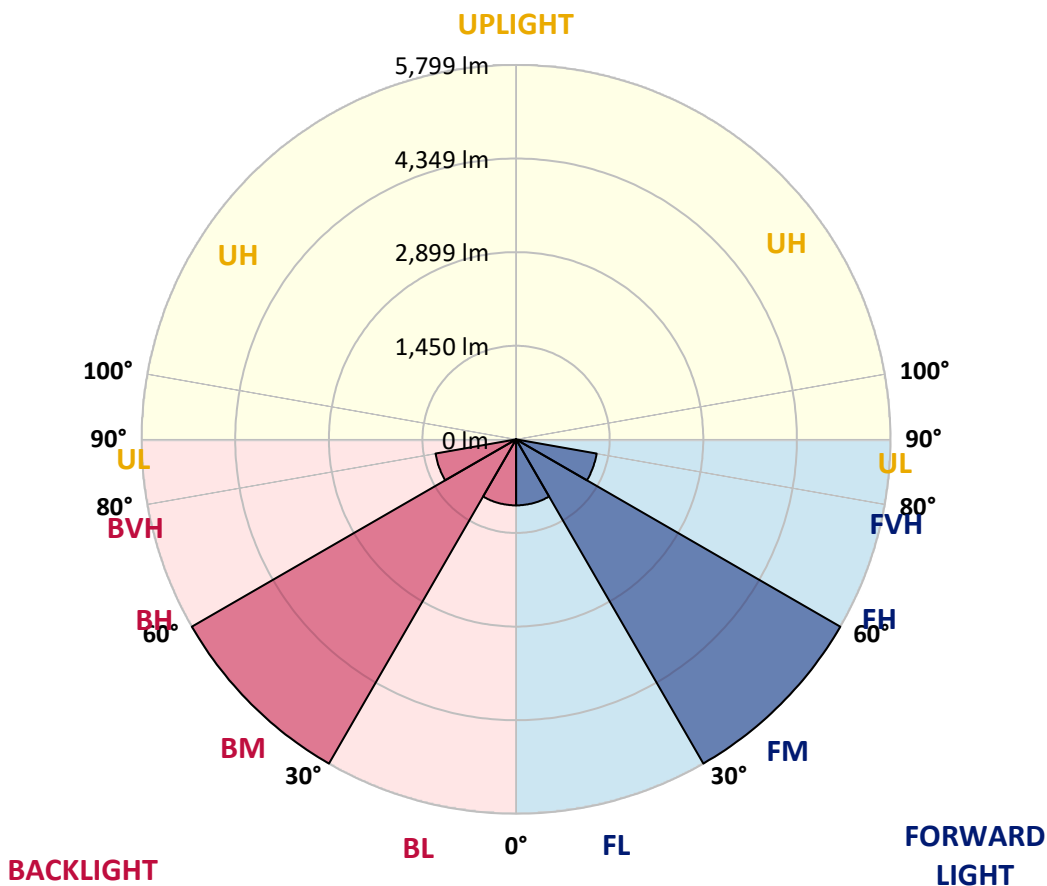
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.7	6.3			
FM (30°-60°)	5798.9	35.8			
FH (60°-80°)	1267.7	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1022.7	6.3	B3/2500		
BM (30°-60°)	5798.9	35.8	B4/8500		
BH (60°-80°)	1267.7	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4	2294.4
2.5°	2272.4	2276.8	2281.2	2283.4	2285.6	2292.2	2294.4	2287.8	2287.8	2274.6	2290.0
5°	2261.4	2265.8	2270.2	2268.0	2268.0	2268.0	2265.8	2257.0	2254.8	2241.5	2257.0
7.5°	2241.5	2246.0	2246.0	2239.3	2234.9	2234.9	2232.7	2221.7	2219.5	2206.3	2221.7
10°	2226.1	2228.3	2226.1	2212.9	2204.1	2204.1	2201.9	2197.5	2199.7	2190.8	2204.1
12.5°	2234.9	2237.1	2228.3	2210.7	2199.7	2197.5	2190.8	2184.2	2190.8	2188.6	2201.9
15°	2263.6	2265.8	2250.4	2228.3	2219.5	2219.5	2201.9	2184.2	2193.1	2195.3	2210.7
17.5°	2298.8	2298.8	2279.0	2259.2	2261.4	2261.4	2232.7	2201.9	2204.1	2212.9	2228.3
20°	2340.7	2340.7	2320.9	2316.5	2331.9	2334.1	2298.8	2250.4	2239.3	2246.0	2263.6
22.5°	2415.7	2415.7	2400.2	2411.3	2446.5	2457.5	2404.6	2336.3	2309.9	2314.3	2331.9
25°	2532.5	2532.5	2528.1	2554.5	2605.2	2629.5	2558.9	2468.6	2424.5	2417.9	2437.7
27.5°	2728.6	2730.8	2724.2	2763.9	2827.8	2856.5	2759.5	2640.5	2587.6	2576.6	2596.4
30°	2982.1	2982.1	2984.3	3039.4	3123.2	3160.6	3032.8	2893.9	2832.2	2797.0	2823.4
32.5°	3264.2	3268.6	3290.7	3383.3	3530.9	3608.1	3420.7	3226.8	3127.6	3090.1	3118.8
35°	3729.3	3687.4	3661.0	3729.3	3943.1	4044.5	3804.2	3577.2	3502.3	3497.9	3570.6
37.5°	4189.9	4165.7	4110.6	4181.1	4372.9	4419.2	4154.7	3965.1	3912.2	3940.9	4013.6
40°	4555.8	4511.7	4439.0	4505.1	4756.4	4802.7	4476.5	4289.1	4269.3	4333.2	4432.4
42.5°	4844.6	4782.8	4685.9	4701.3	4904.1	4937.1	4648.4	4507.3	4520.6	4599.9	4712.3
45°	4974.6	4926.1	4840.1	4833.5	4961.4	4963.6	4736.6	4663.8	4699.1	4760.8	4849.0
47.5°	5029.7	5007.7	4959.2	4948.1	5020.9	5003.2	4862.2	4831.3	4864.4	4882.0	4932.7
50°	5166.3	5166.3	5173.0	5181.8	5256.7	5239.1	5139.9	5104.6	5062.8	5001.0	5016.5
52.5°	5549.9	5565.3	5629.2	5699.7	5836.4	5893.7	5732.8	5527.8	5327.2	5192.8	5192.8
55°	6241.9	6257.4	6332.3	6451.3	6702.6	6839.2	6464.5	6012.7	5737.2	5554.3	5578.5
57.5°	6623.2	6640.9	6795.2	7117.0	7604.1	7835.5	7031.0	6361.0	5975.2	5765.9	5783.5
58°	6599.0	6610.0	6784.1	7161.0	7703.2	7952.3	7070.7	6349.9	5944.4	5730.6	5752.6
60°	5862.8	5847.4	6125.1	6662.9	7427.7	7771.6	6676.1	5796.7	5325.0	5106.8	5117.9
62.5°	3832.9	3841.7	4081.9	4644.0	5239.1	5563.1	4663.8	4009.2	3630.1	3497.9	3464.8
65°	1600.2	1571.5	1719.2	2032.2	2389.2	2569.9	2208.5	1869.1	1635.4	1547.3	1571.5
67.5°	412.2	401.1	410.0	513.5	628.2	742.8	623.8	476.1	414.4	418.8	418.8
70°	233.6	220.4	178.5	165.3	160.9	160.9	160.9	160.9	185.1	218.2	224.8
72.5°	176.3	165.3	130.0	112.4	99.2	92.6	97.0	112.4	134.4	163.1	167.5
75°	88.2	88.2	79.3	74.9	66.1	61.7	63.9	70.5	81.6	92.6	90.4
77.5°	17.6	19.8	22.0	26.4	22.0	22.0	22.0	26.4	26.4	28.7	26.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)