

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: P637521

Luminaire Tested: GWS-SA4D-722-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637521  
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-SA4D-722-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12693.3 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 162.1  
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

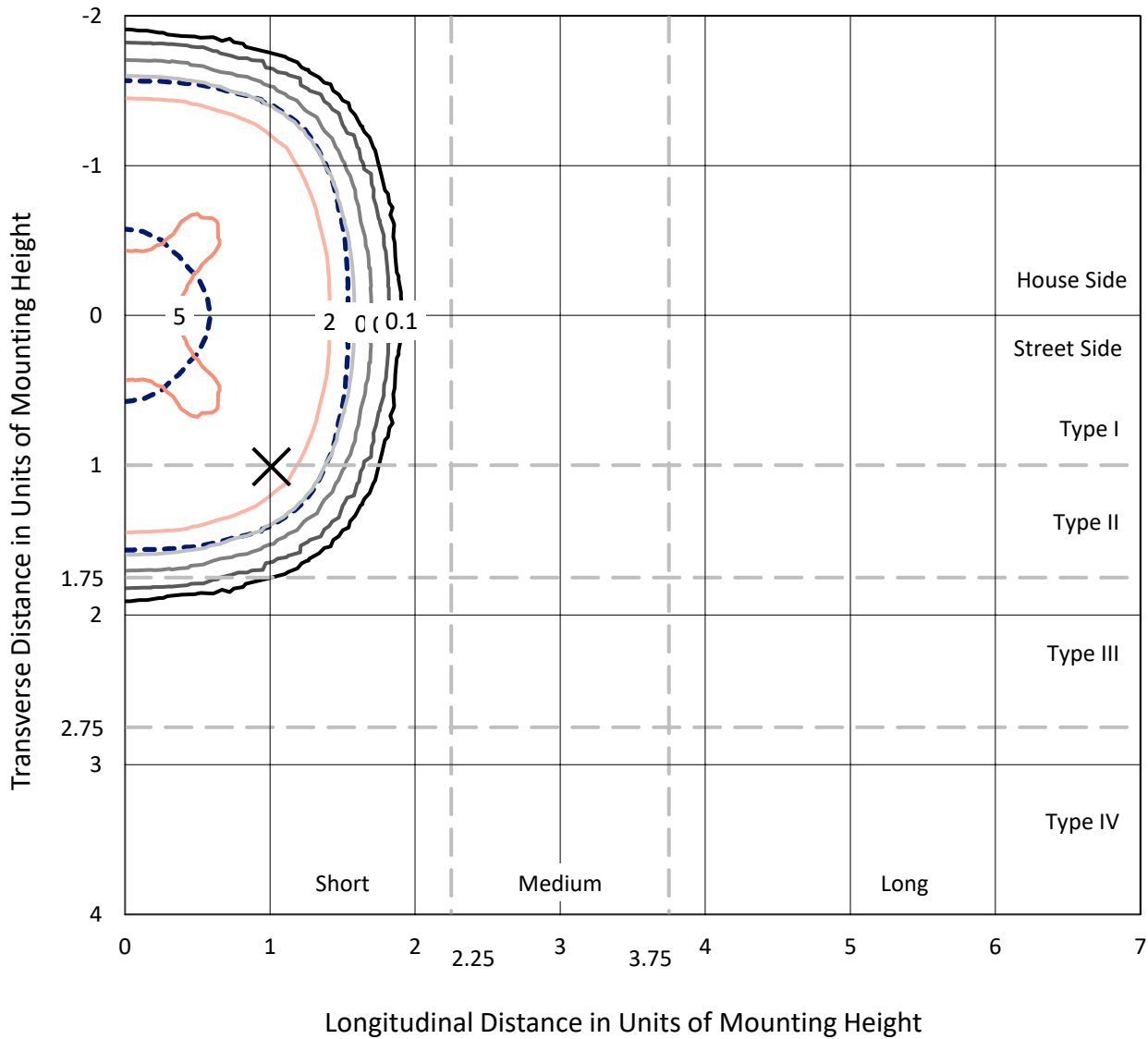


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### Iso-Footcandle Lines of Horizontal Illumination

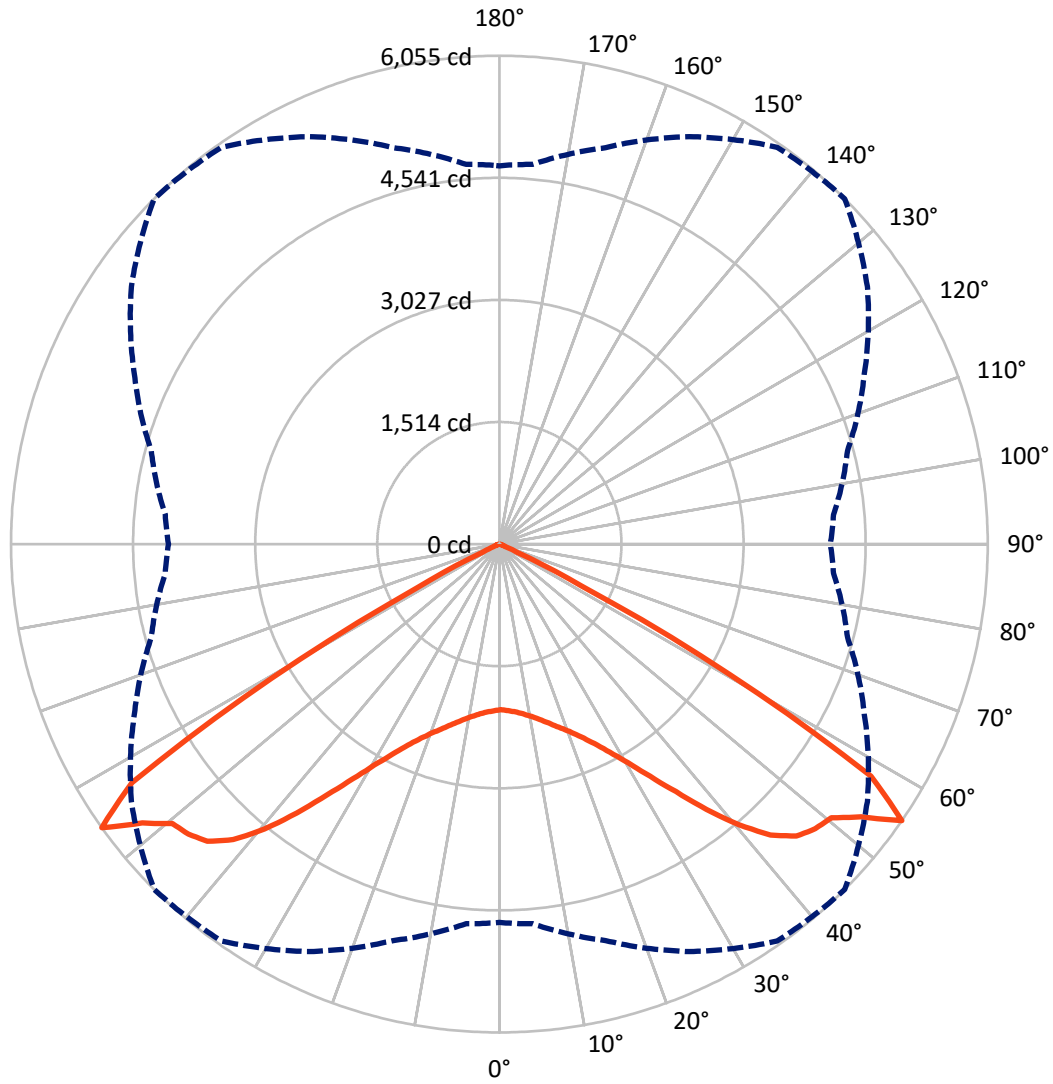
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	6346.6	0.0	6346.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6346.6	0.0	6346.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12693.3	0.0	12693.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	1.6
10°-20°	651.8	5.1
20°-30°	1262.3	9.9
30°-40°	2261.5	17.8
40°-50°	3791.5	29.9
50°-60°	4058.6	32.0
60°-70°	446.0	3.5
70°-80°	19.6	0.2
80°-90°	0.9	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°	12693.3	100.0
0°-180°	12693.3	100.0

**Coefficient of Utilization**



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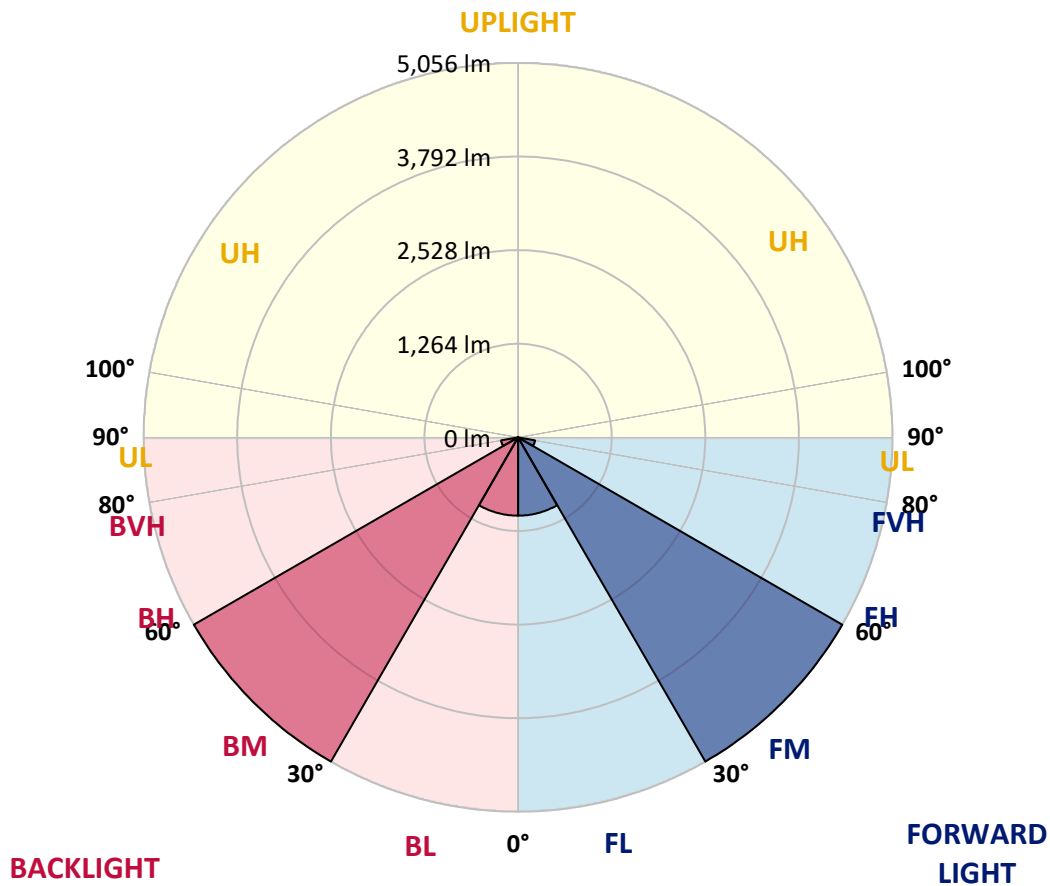
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.6	8.3			
FM (30°-60°)	5055.8	39.8			
FH (60°-80°)	232.8	1.8			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1057.6	8.3	B3/2500		
BM (30°-60°)	5055.8	39.8	B4/8500		
BH (60°-80°)	232.8	1.8	B1/500		G0/660
BVH (80°-90°)	0.5	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-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3	2052.3
2.5°	2048.4	2048.4	2053.6	2057.4	2057.4	2067.8	2063.9	2060.0	2060.0	2054.8	2065.2
5°	2078.1	2076.8	2082.0	2084.6	2079.4	2089.8	2083.3	2079.4	2076.8	2071.7	2082.0
7.5°	2110.5	2111.7	2113.0	2118.2	2115.6	2126.0	2120.8	2113.0	2110.5	2102.7	2113.0
10°	2149.2	2149.2	2151.8	2158.3	2159.6	2172.5	2167.4	2158.3	2150.5	2142.8	2153.1
12.5°	2198.4	2199.7	2203.6	2212.6	2217.8	2232.0	2224.3	2206.1	2194.5	2185.5	2197.1
15°	2269.5	2268.2	2273.4	2286.3	2292.8	2303.1	2291.5	2266.9	2252.7	2242.4	2250.1
17.5°	2347.1	2347.1	2349.7	2362.6	2371.7	2387.2	2373.0	2343.2	2330.3	2316.1	2323.8
20°	2432.5	2436.3	2438.9	2448.0	2463.5	2479.0	2467.4	2437.6	2423.4	2405.3	2414.3
22.5°	2545.0	2541.1	2542.4	2557.9	2579.9	2595.4	2586.3	2551.4	2526.9	2512.6	2517.8
25°	2670.4	2669.1	2673.0	2696.3	2720.8	2737.6	2724.7	2679.4	2654.9	2630.3	2640.7
27.5°	2824.3	2825.6	2828.2	2856.6	2895.4	2920.0	2887.7	2842.4	2808.8	2776.4	2784.2
30°	3006.6	3004.0	3011.8	3050.6	3107.5	3146.3	3108.8	3045.4	2997.6	2966.5	2970.4
32.5°	3200.6	3203.2	3223.9	3285.9	3361.0	3429.5	3353.2	3269.1	3207.1	3148.9	3156.6
35°	3410.1	3416.6	3463.1	3554.9	3677.8	3769.6	3663.6	3525.2	3437.2	3362.2	3364.8
37.5°	3657.1	3672.6	3737.3	3874.3	4050.2	4173.1	4017.9	3834.3	3720.5	3627.3	3620.9
40°	3981.7	3999.8	4087.7	4250.7	4464.0	4576.5	4396.8	4208.0	4067.0	3966.2	3950.6
42.5°	4354.1	4377.4	4473.1	4639.9	4853.3	4929.6	4753.7	4594.6	4467.9	4348.9	4343.8
45°	4774.4	4787.3	4864.9	4992.9	5146.8	5164.9	5033.0	4945.1	4817.1	4705.8	4696.8
47.5°	5168.8	5181.7	5234.8	5300.7	5336.9	5272.3	5249.0	5210.2	5044.7	4907.6	4879.1
50°	5468.8	5479.2	5545.1	5571.0	5470.1	5333.0	5378.3	5295.5	5115.8	4961.9	4917.9
52.5°	5448.1	5474.0	5643.4	5790.8	5727.5	5616.2	5494.7	5316.2	5036.9	4826.1	4771.8
55°	4690.3	4725.2	5088.6	5573.6	6006.8	6054.6	5568.4	4992.9	4467.9	4158.8	4103.2
57.5°	3014.4	3023.4	3467.0	4147.2	5123.5	5431.3	4617.9	3764.4	3111.4	2771.3	2748.0
60°	1108.2	1090.1	1425.1	1988.9	2951.0	3276.9	2718.2	1903.5	1357.8	1117.3	1097.9
62.5°	266.4	269.0	333.6	500.5	925.9	1145.7	905.2	505.6	322.0	270.3	267.7
65°	134.5	131.9	133.2	143.5	197.9	236.7	194.0	137.1	131.9	133.2	131.9
67.5°	86.6	85.3	87.9	89.2	87.9	82.8	81.5	84.1	84.1	85.3	82.8
70°	53.0	51.7	54.3	58.2	55.6	49.1	51.7	54.3	51.7	50.4	50.4
72.5°	28.4	28.4	31.0	33.6	31.0	28.4	28.4	29.7	28.4	28.4	28.4
75°	12.9	12.9	14.2	15.5	12.9	12.9	12.9	12.9	12.9	12.9	12.9
77.5°	3.9	3.9	5.2	5.2	3.9	3.9	3.9	3.9	5.2	5.2	5.2
80°	1.3	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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)