

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: P633727

Luminaire Tested: GWS-SA2F-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-735-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14505.1 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 124.5  
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

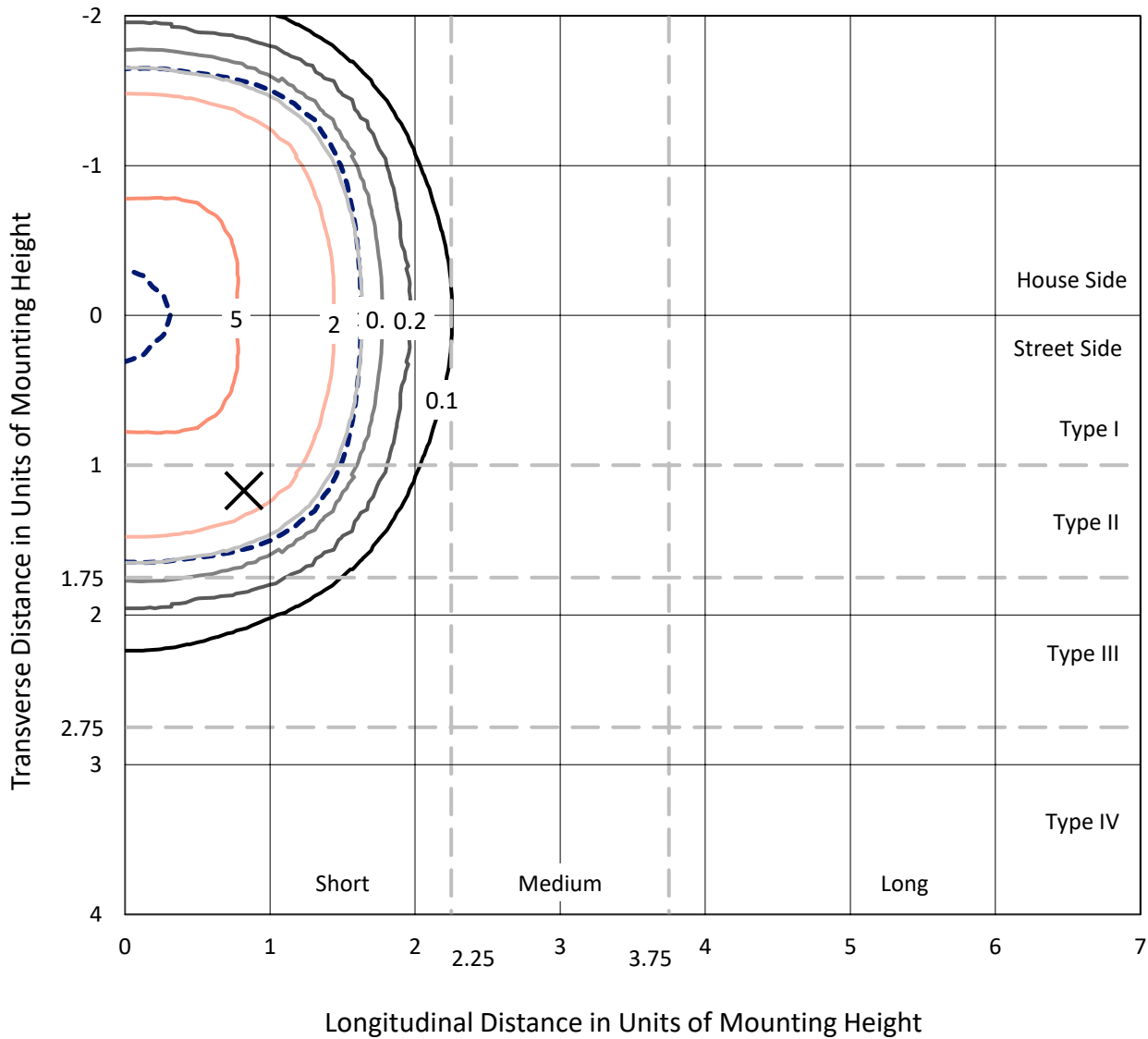


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### Iso-Footcandle Lines of Horizontal Illumination

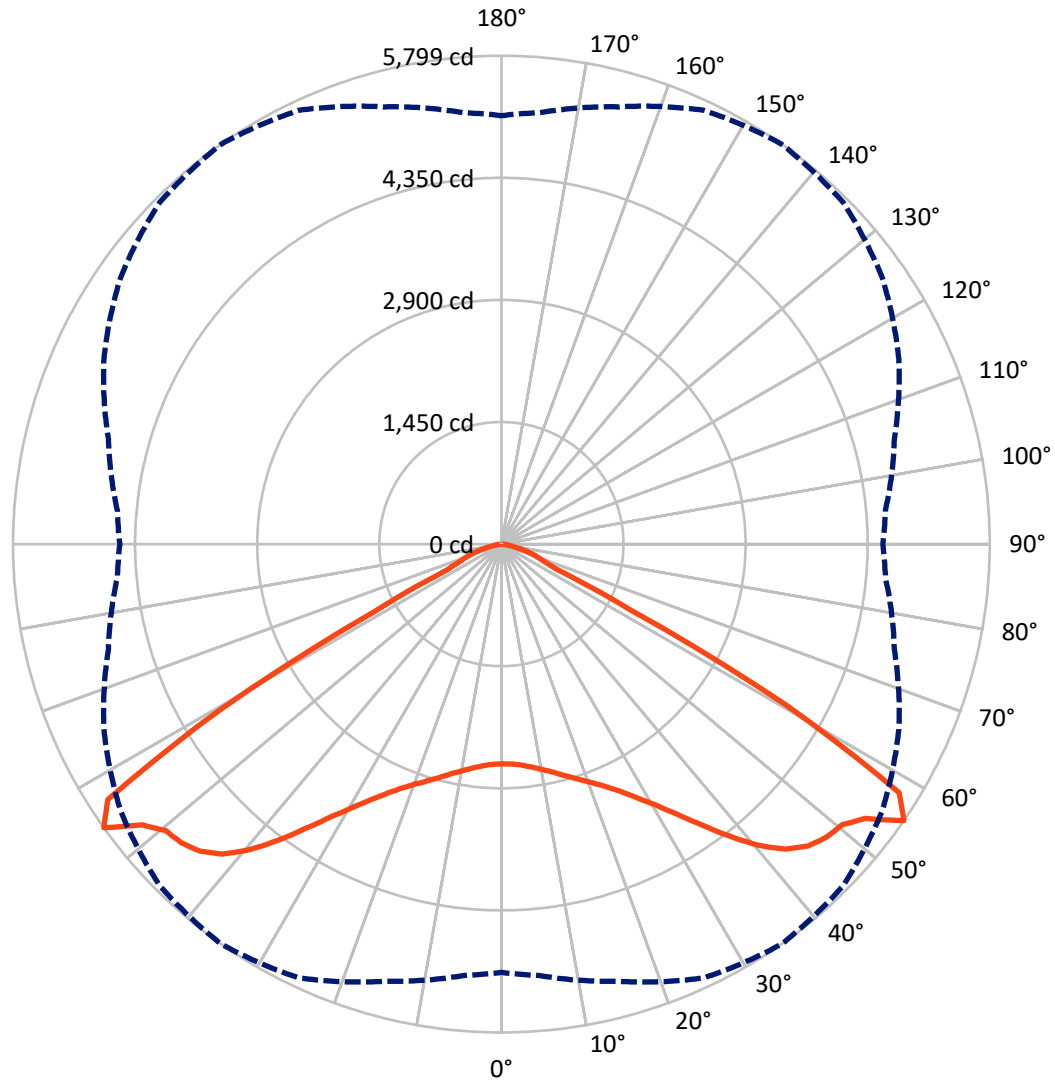
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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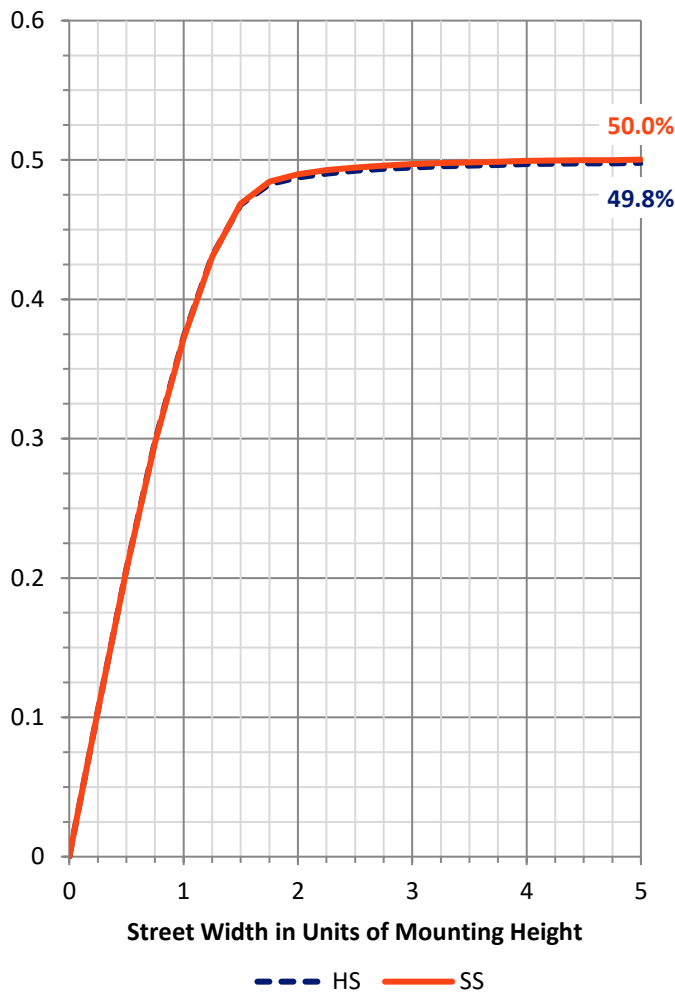
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7252.5	0.0	7252.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7252.5	0.0	7252.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14505.1	0.0	14505.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.5	1.8
10°-20°	810.3	5.6
20°-30°	1499.8	10.3
30°-40°	2508.9	17.3
40°-50°	3823.1	26.4
50°-60°	4282.7	29.5
60°-70°	1013.3	7.0
70°-80°	273.2	1.9
80°-90°	39.3	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°	14505.1	100.0
0°-180°	14505.1	100.0

**Coefficient of Utilization**



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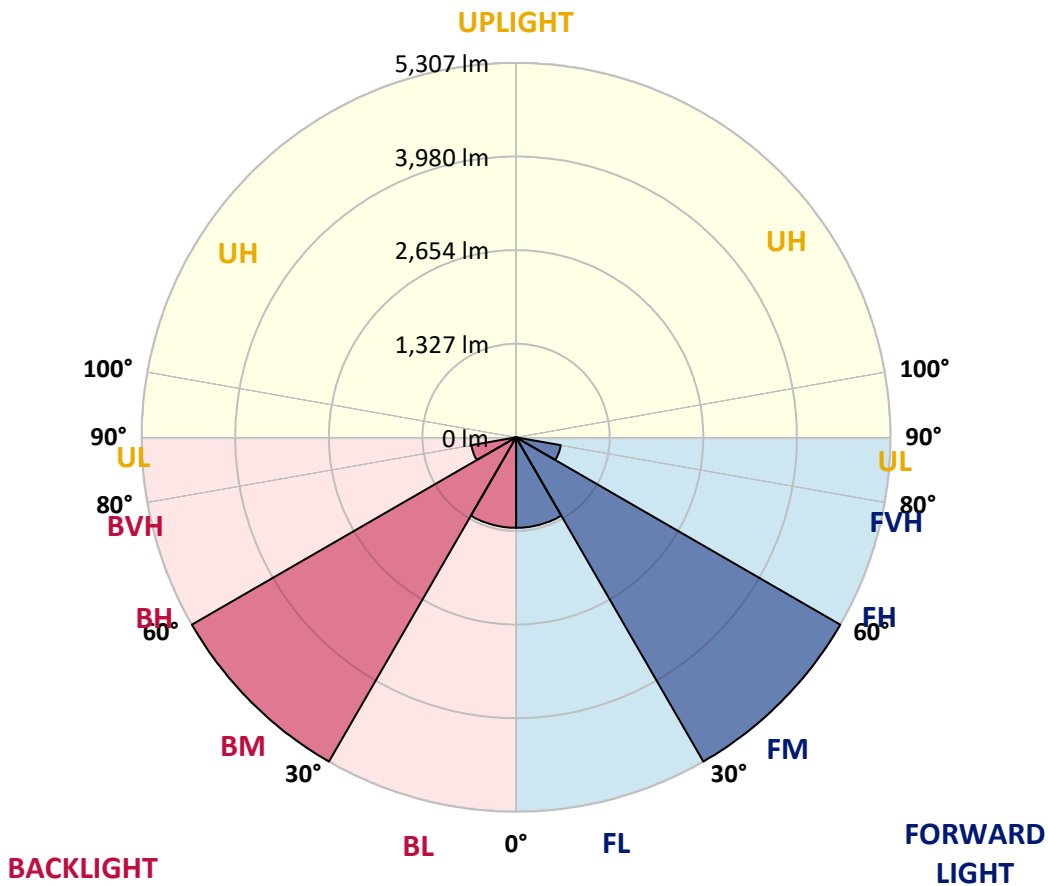
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.3	8.8			
FM (30°-60°)	5307.3	36.6			
FH (60°-80°)	643.2	4.4			G0/660
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	1282.3	8.8	B3/2500		
BM (30°-60°)	5307.3	36.6	B4/8500		
BH (60°-80°)	643.2	4.4	B2/1000		G0/660
BVH (80°-90°)	19.7	0.1			G1/100
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°	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5	2609.5
2.5°	2603.8	2603.8	2608.4	2614.1	2615.2	2626.7	2624.4	2619.8	2617.5	2612.9	2623.3
5°	2632.4	2633.6	2637.0	2640.5	2638.2	2647.4	2643.9	2638.2	2634.7	2629.0	2639.3
7.5°	2670.3	2670.3	2673.7	2678.3	2676.0	2689.8	2682.9	2674.9	2669.2	2662.3	2671.4
10°	2704.7	2707.0	2710.4	2719.6	2724.2	2739.1	2734.5	2723.1	2713.9	2705.9	2716.2
12.5°	2756.3	2758.6	2762.1	2774.7	2782.7	2797.6	2790.7	2774.7	2760.9	2749.4	2760.9
15°	2822.9	2820.6	2829.7	2845.8	2856.1	2869.9	2861.9	2834.3	2816.0	2801.1	2812.5
17.5°	2890.5	2889.4	2898.6	2919.2	2934.1	2952.5	2938.7	2906.6	2887.1	2868.7	2880.2
20°	2963.9	2967.4	2976.6	2996.1	3017.9	3041.9	3030.5	2996.1	2974.3	2953.6	2962.8
22.5°	3054.6	3055.7	3066.0	3091.3	3119.9	3142.9	3136.0	3093.6	3066.0	3044.2	3055.7
25°	3163.5	3162.4	3176.1	3206.0	3246.1	3269.1	3254.1	3207.1	3177.3	3152.1	3161.2
27.5°	3288.6	3287.4	3308.1	3347.1	3404.4	3436.5	3405.5	3347.1	3305.8	3270.2	3278.2
30°	3445.7	3442.3	3465.2	3518.0	3592.5	3646.4	3600.5	3519.1	3465.2	3427.3	3435.4
32.5°	3620.0	3624.6	3653.3	3724.4	3818.5	3888.5	3819.6	3729.0	3656.8	3601.7	3610.9
35°	3811.6	3811.6	3870.1	3958.4	4092.6	4185.5	4078.9	3948.1	3851.7	3776.0	3778.3
37.5°	4024.9	4027.2	4104.1	4225.7	4401.2	4510.1	4365.6	4203.9	4086.9	4005.4	4000.9
40°	4285.3	4292.2	4371.4	4506.7	4704.0	4803.8	4648.9	4490.6	4371.4	4275.0	4265.8
42.5°	4579.0	4581.3	4665.0	4786.6	4952.9	5012.5	4891.0	4761.3	4663.8	4576.7	4567.5
45°	4858.8	4853.1	4925.4	5016.0	5112.3	5118.1	5050.4	4997.6	4912.8	4838.2	4824.4
47.5°	5076.8	5072.2	5137.6	5186.9	5198.4	5142.2	5164.0	5172.0	5073.3	4972.4	4946.0
50°	5209.8	5219.0	5281.0	5308.5	5240.8	5149.0	5231.6	5211.0	5069.9	4938.0	4895.5
52.5°	5290.1	5303.9	5411.7	5481.7	5411.7	5324.5	5336.0	5214.4	5011.4	4837.0	4782.0
55°	5087.1	5142.2	5375.0	5684.7	5799.4	5738.6	5520.7	5207.5	4831.3	4577.8	4530.8
57.5°	3770.3	3857.5	4202.7	4873.8	5571.2	5792.5	5155.9	4365.6	3795.5	3469.8	3442.3
60°	1924.7	2022.2	2298.7	2988.0	3885.0	4197.0	3591.4	2795.3	2221.8	1958.0	1928.2
62.5°	785.7	801.8	892.4	1158.5	1717.1	1980.9	1740.1	1221.6	917.6	845.4	846.5
65°	618.3	621.7	617.1	633.2	719.2	798.3	737.5	648.1	632.0	640.0	634.3
67.5°	539.1	540.3	536.8	536.8	540.3	536.8	543.7	547.1	549.4	558.6	552.9
70°	450.8	451.9	451.9	454.2	453.1	447.3	457.7	462.3	463.4	469.1	465.7
72.5°	348.7	352.1	354.4	355.6	354.4	351.0	356.7	364.8	363.6	369.3	363.6
75°	236.3	240.9	243.2	247.8	246.6	246.6	253.5	256.9	253.5	258.1	253.5
77.5°	134.2	137.6	144.5	149.1	153.7	157.1	161.7	164.0	162.9	165.2	162.9
80°	78.0	79.1	84.9	87.2	92.9	98.6	103.2	105.5	106.7	107.8	106.7
82.5°	44.7	45.9	48.2	50.5	55.1	59.6	64.2	67.7	67.7	68.8	67.7
85°	21.8	21.8	22.9	24.1	26.4	29.8	33.3	36.7	37.9	37.9	37.9
87.5°	3.4	3.4	4.6	4.6	5.7	6.9	9.2	11.5	12.6	12.6	12.6
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)