

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648139

Luminaire Tested: **GALN-SA9A-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16932.4 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

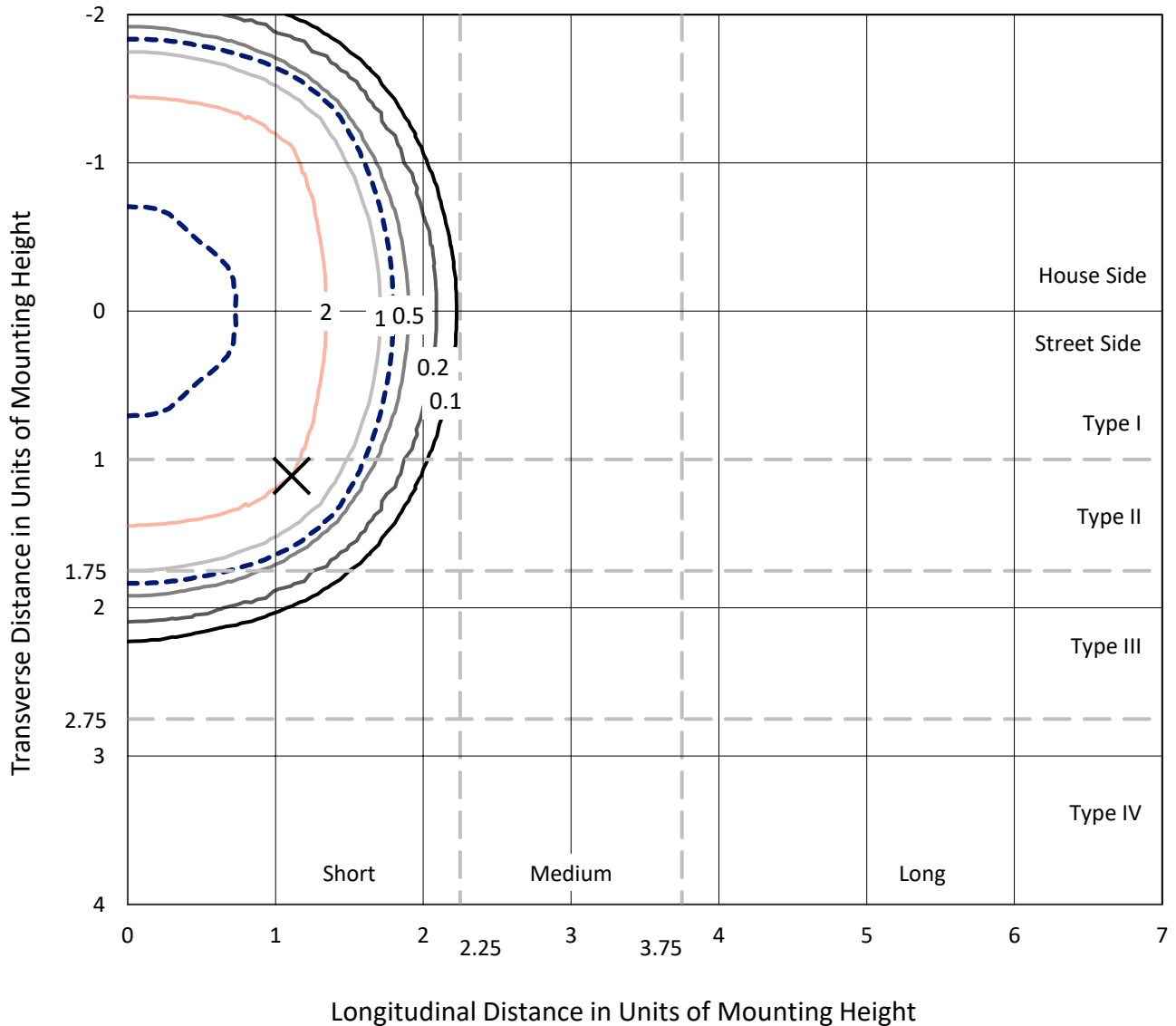
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

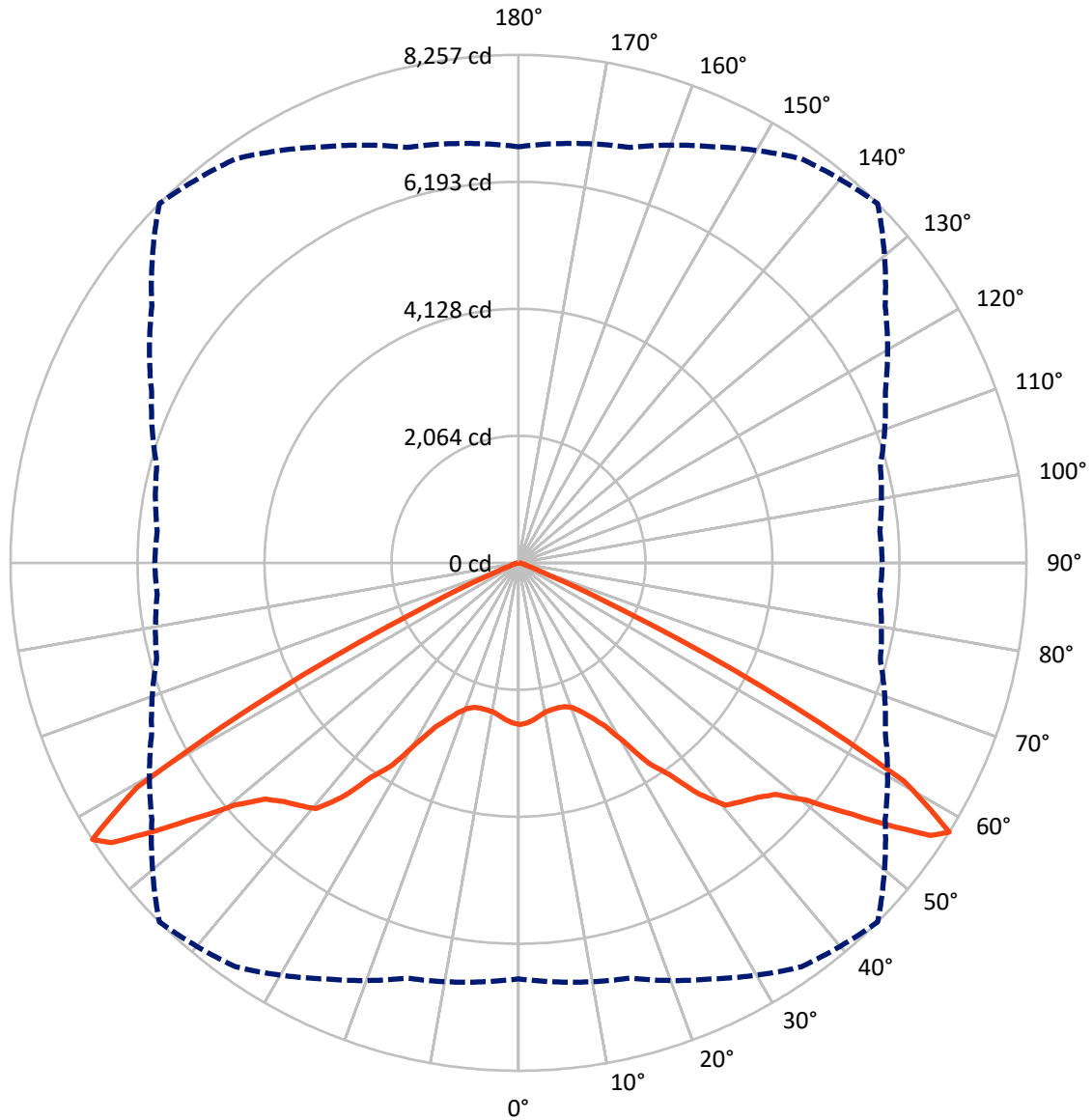
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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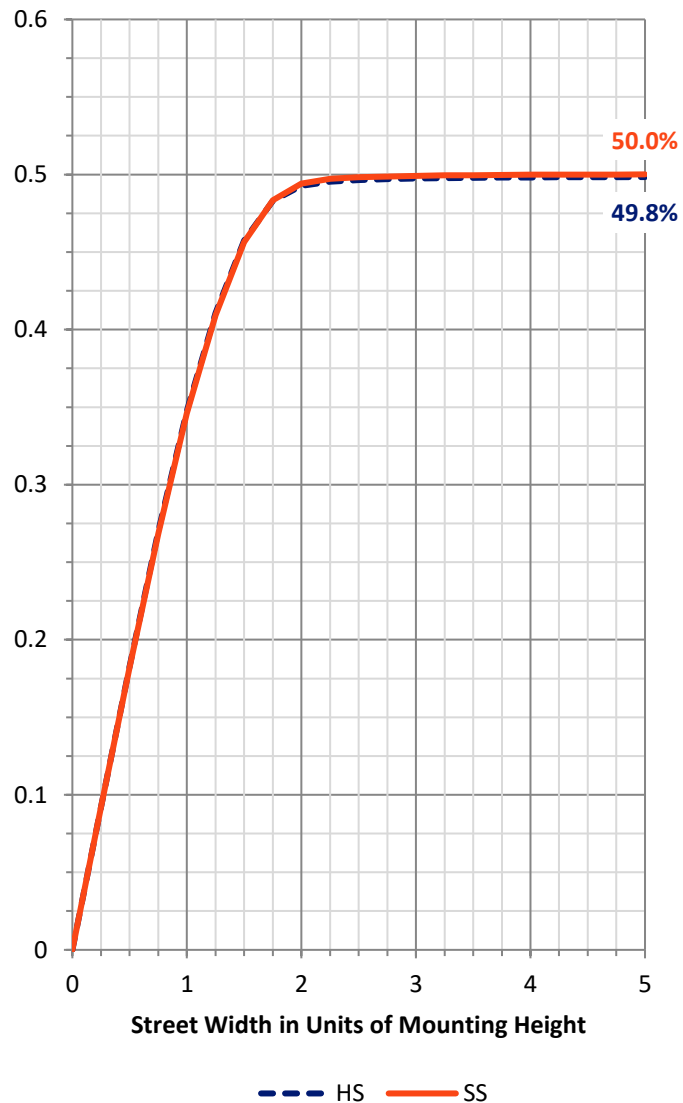
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8466.2	0.0	8466.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8466.2	0.0	8466.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16932.4	0.0	16932.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.3	1.4
10°-20°	697.6	4.1
20°-30°	1287.7	7.6
30°-40°	2532.4	15.0
40°-50°	4124.6	24.4
50°-60°	5882.3	34.7
60°-70°	2036.6	12.0
70°-80°	109.3	0.6
80°-90°	20.5	0.1
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°	16932.4	100.0
0°-180°	16932.4	100.0

**Coefficient of Utilization**



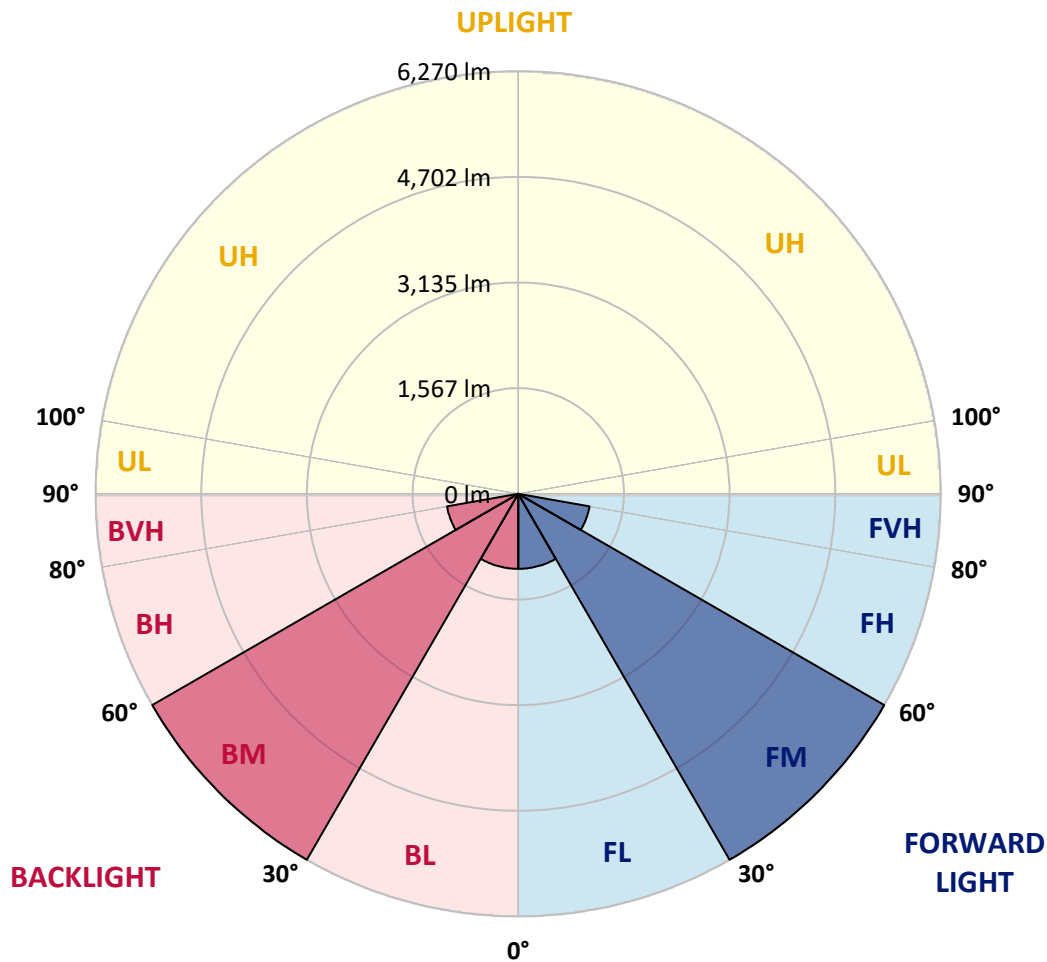
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.3	6.6			
FM (30°-60°)	6269.7	37.0			
FH (60°-80°)	1072.9	6.3			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	1113.3	6.6	B3/2500		
BM (30°-60°)	6269.7	37.0	B4/8500		
BH (60°-80°)	1072.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.3	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°	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4	2626.4
2.5°	2619.3	2633.5	2615.8	2608.7	2605.2	2605.2	2594.6	2594.6	2591.1	2594.6	2580.5
5°	2576.9	2591.1	2591.1	2587.6	2566.4	2562.8	2552.3	2545.2	2548.7	2534.6	2545.2
7.5°	2534.6	2545.2	2531.0	2527.5	2520.5	2506.4	2502.9	2471.1	2474.6	2474.6	2481.6
10°	2527.5	2524.0	2502.9	2485.2	2464.0	2460.5	2449.9	2442.8	2442.8	2439.3	2449.9
12.5°	2527.5	2509.9	2506.4	2467.5	2432.2	2446.3	2418.1	2400.4	2425.2	2432.2	2446.3
15°	2524.0	2541.7	2481.6	2464.0	2439.3	2442.8	2418.1	2400.4	2414.6	2421.7	2432.2
17.5°	2545.2	2534.6	2517.0	2481.6	2471.1	2457.0	2425.2	2411.1	2411.1	2428.7	2432.2
20°	2601.7	2573.4	2538.2	2520.5	2531.0	2513.4	2474.6	2421.7	2435.8	2449.9	2460.5
22.5°	2654.6	2633.5	2608.7	2598.2	2658.1	2629.9	2562.8	2502.9	2481.6	2506.4	2524.0
25°	2757.0	2757.0	2711.1	2725.2	2792.3	2795.9	2718.2	2612.2	2598.2	2608.7	2615.8
27.5°	2965.3	2975.9	2937.0	2951.1	2979.4	3004.1	2937.0	2848.8	2817.0	2813.5	2824.0
30°	3191.2	3212.4	3208.9	3268.9	3350.1	3364.2	3265.3	3120.6	3025.3	3007.7	3021.8
32.5°	3487.7	3498.3	3491.2	3561.9	3780.7	3883.1	3625.4	3420.7	3293.6	3325.3	3293.6
35°	4045.4	4034.9	3957.2	3971.4	4151.4	4225.5	3978.4	3847.8	3787.8	3851.3	3837.2
37.5°	4525.6	4486.7	4423.2	4515.0	4702.1	4769.2	4511.5	4282.0	4172.6	4278.5	4324.4
40°	4931.6	4832.7	4744.4	4836.2	5086.8	5178.7	4801.0	4613.8	4571.5	4649.1	4748.0
42.5°	5274.0	5210.4	5093.9	5101.0	5266.9	5309.3	5005.6	4896.3	4853.9	4977.5	5026.9
45°	5517.6	5457.5	5348.1	5341.0	5468.1	5439.9	5168.0	5093.9	5118.6	5199.8	5224.6
47.5°	5641.1	5672.8	5609.3	5627.0	5694.1	5627.0	5411.6	5411.6	5355.2	5404.6	5379.8
50°	5997.6	5898.8	5980.0	5980.0	6050.6	6057.6	5842.3	5764.6	5612.9	5528.1	5528.1
52.5°	6414.2	6421.2	6453.0	6569.5	6689.6	6791.9	6484.8	6153.0	5898.8	5789.3	5775.3
55°	6756.6	6827.2	6954.3	7173.1	7519.1	7660.3	7130.8	6537.7	6227.1	6057.6	6022.4
56°	6943.7	6876.6	7095.5	7395.5	7847.4	8031.0	7236.7	6615.4	6273.0	6082.3	6078.8
57.5°	6763.6	6837.8	6989.6	7462.6	8016.8	8256.9	7275.6	6580.1	6089.4	5895.3	5912.9
60°	5341.0	5411.6	5616.4	6145.9	7014.3	7201.4	6156.5	5425.7	4988.0	4709.1	4712.6
62.5°	3021.8	3074.7	3233.6	3724.3	4264.4	4444.4	3837.2	3350.1	3046.5	2891.1	2841.7
65°	1112.0	1090.8	1115.5	1366.2	1697.9	1849.8	1595.6	1348.5	1189.6	1133.2	1112.0
67.5°	416.6	384.8	360.1	384.8	483.7	511.8	469.5	391.8	367.1	377.7	384.8
70°	257.7	243.6	194.2	183.5	180.0	176.5	187.1	197.7	225.9	264.7	271.8
72.5°	180.0	169.4	137.7	130.6	123.6	120.0	137.7	151.8	176.5	204.8	208.3
75°	70.6	74.2	70.6	77.7	81.2	84.7	98.8	109.5	120.0	120.0	116.5
77.5°	14.1	14.1	21.2	28.3	35.3	45.9	67.1	77.7	81.2	77.7	67.1
80°	0.0	0.0	7.0	14.1	28.3	38.8	60.0	67.1	74.2	67.1	52.9
82.5°	0.0	0.0	7.0	17.6	28.3	35.3	56.5	70.6	81.2	74.2	56.5
85°	0.0	0.0	7.0	14.1	21.2	24.7	24.7	17.6	17.6	10.6	7.0
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)