

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: P651930

Luminaire Tested: **GALN-SA6A-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23919.7 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

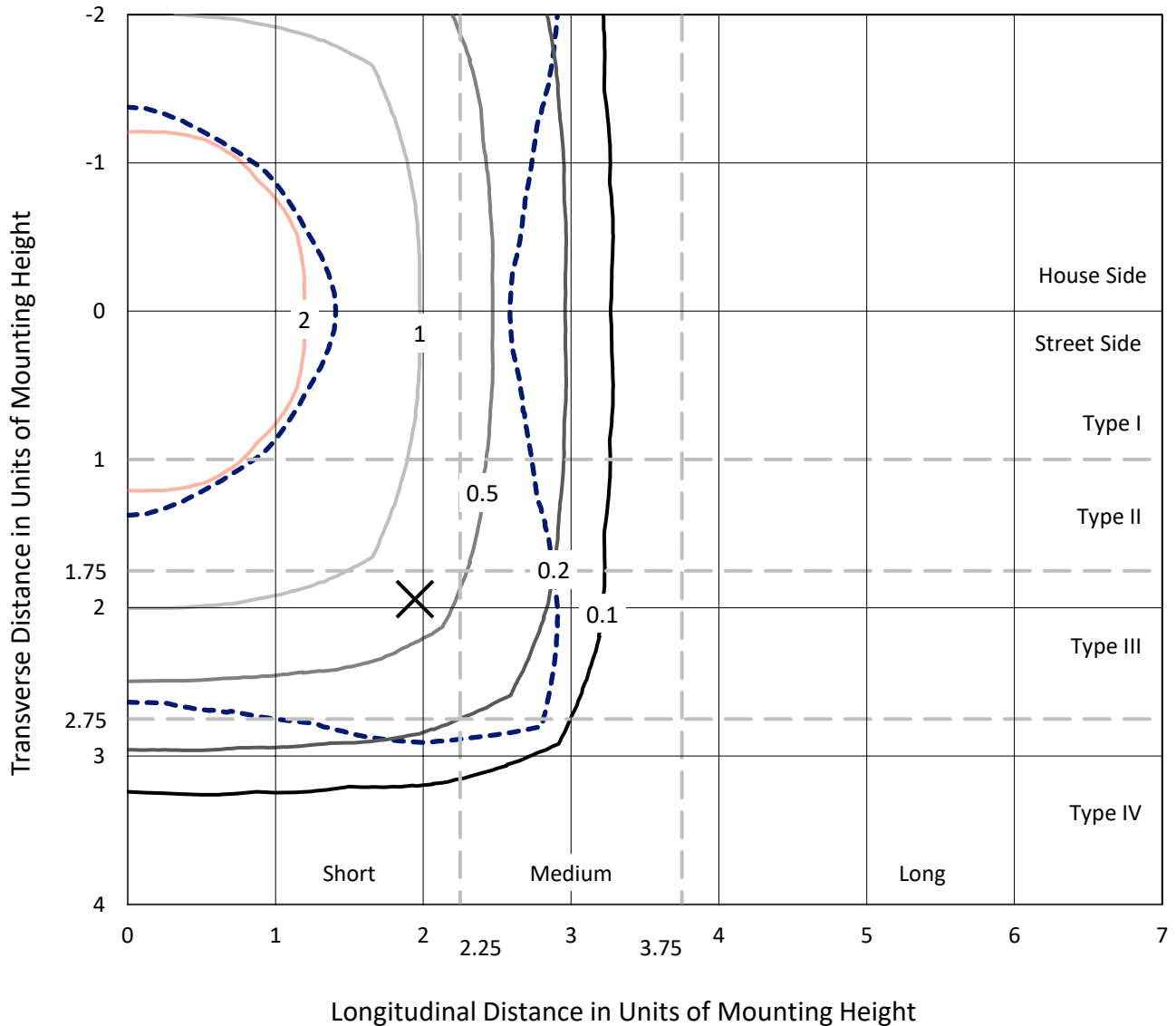
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

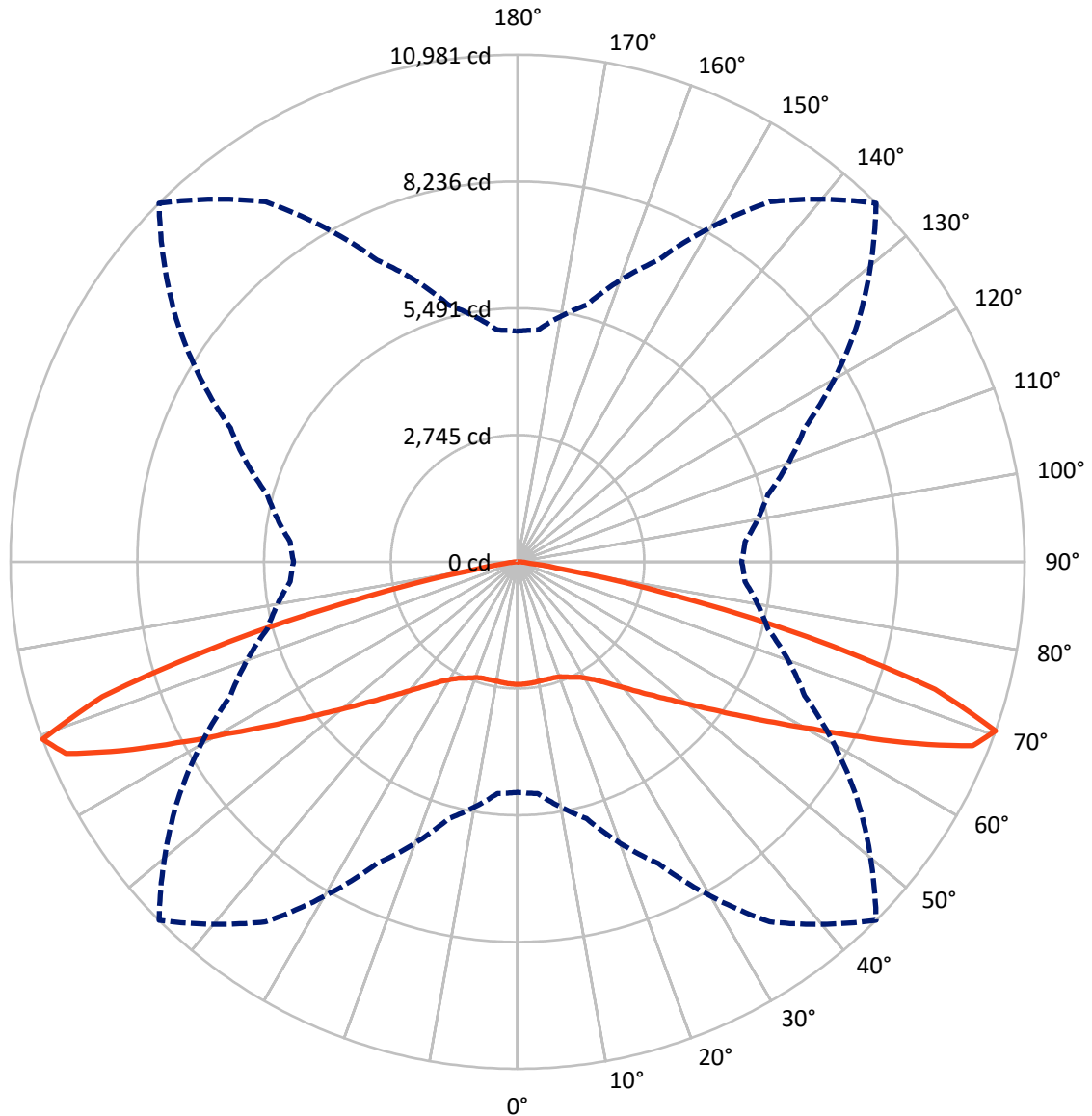
✕ Max cd  
 - - - 1/2 Max cd



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 70-Deg Vertical

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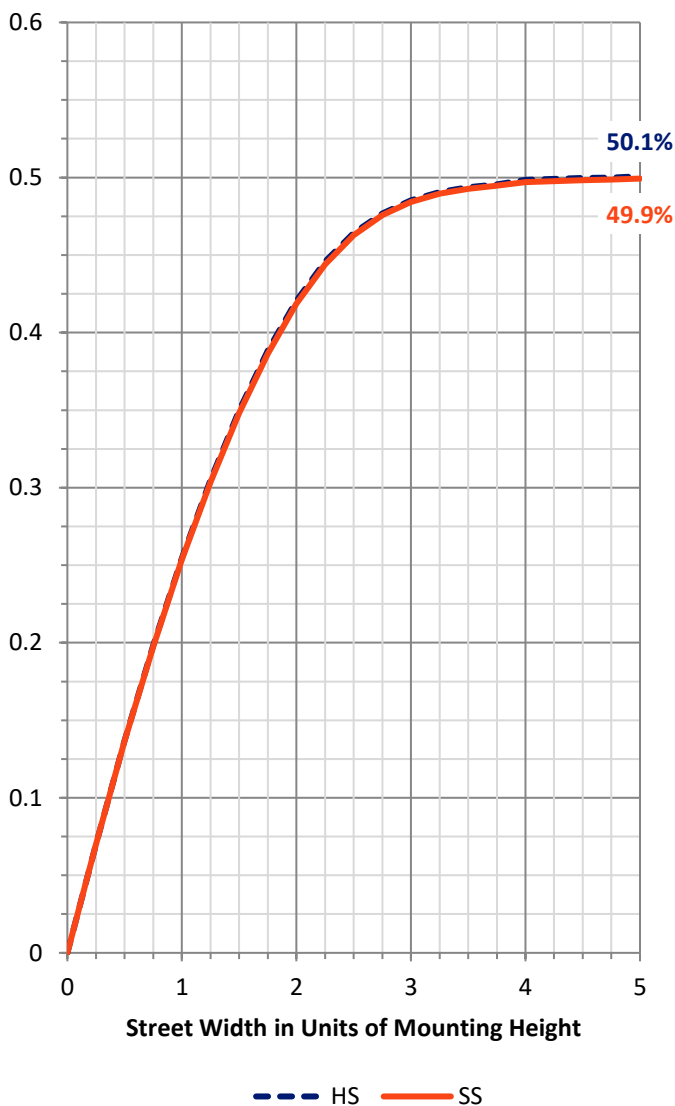
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11959.9	0.0	11959.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11959.9	0.0	11959.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23919.7	0.0	23919.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.9	1.1
10°-20°	739.1	3.1
20°-30°	1264.1	5.3
30°-40°	2006.4	8.4
40°-50°	3236.9	13.5
50°-60°	5266.6	22.0
60°-70°	7634.6	31.9
70°-80°	3386.4	14.2
80°-90°	133.6	0.6
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°	23919.7	100.0
0°-180°	23919.7	100.0

**Coefficient of Utilization**

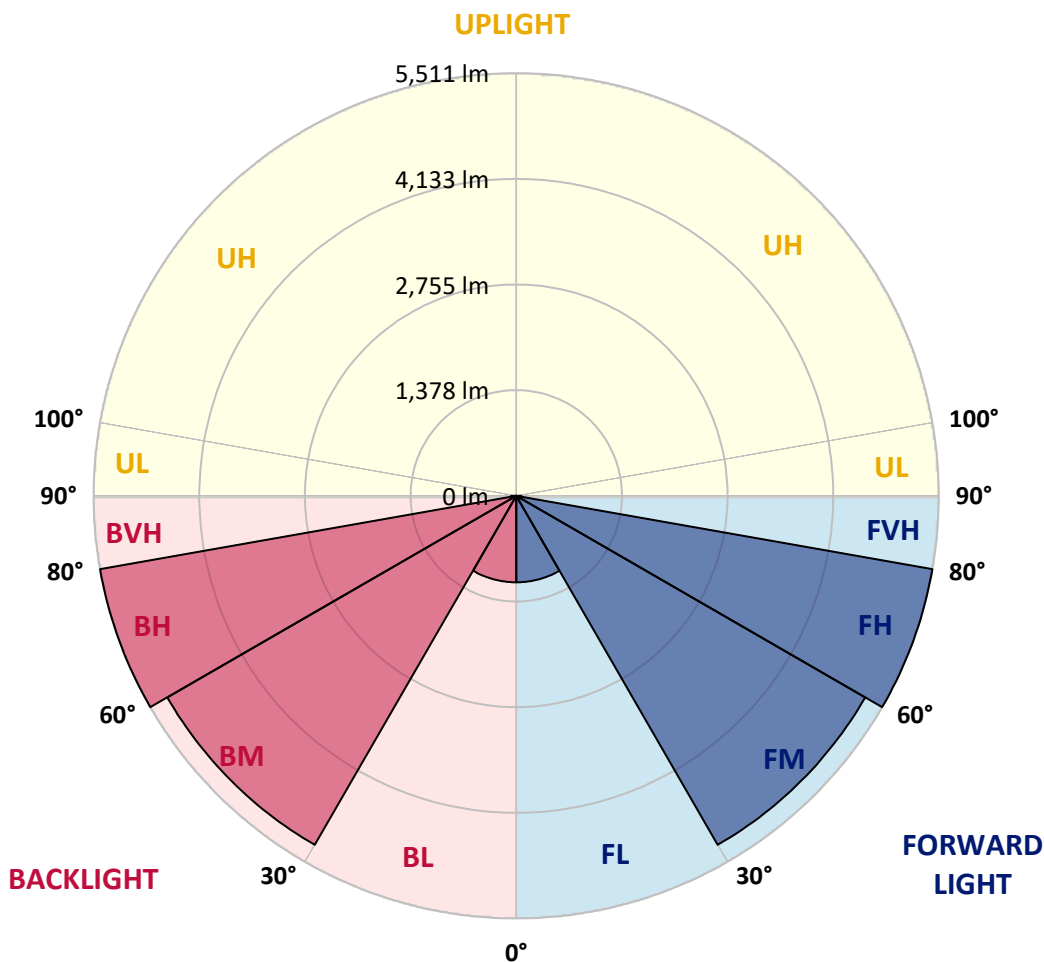


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.6	4.7			
FM (30°-60°)	5255.0	22.0			
FH (60°-80°)	5510.5	23.0			G3/7500
FVH (80°-90°)	66.8	0.3			G1/100
BL (0°-30°)	1127.6	4.7	B3/2500		
BM (30°-60°)	5255.0	22.0	B4/8500		
BH (60°-80°)	5510.5	23.0	B5		G3/7500
BVH (80°-90°)	66.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2	2656.2
2.5°	2656.2	2658.7	2655.0	2652.4	2651.2	2651.2	2649.9	2651.2	2658.7	2659.9	2656.2
5°	2648.6	2651.2	2649.9	2647.4	2646.1	2646.1	2644.9	2643.6	2649.9	2652.4	2651.2
7.5°	2638.6	2639.8	2638.6	2637.3	2638.6	2637.3	2633.5	2631.0	2636.0	2636.0	2634.8
10°	2620.9	2623.4	2622.2	2623.4	2625.9	2625.9	2620.9	2615.8	2617.1	2614.6	2614.6
12.5°	2599.4	2603.2	2604.5	2609.5	2615.8	2623.4	2612.1	2600.7	2598.2	2596.9	2595.7
15°	2585.6	2589.4	2594.4	2599.4	2610.8	2627.2	2610.8	2593.1	2588.1	2583.0	2580.5
17.5°	2581.8	2586.8	2594.4	2602.0	2617.1	2633.5	2619.6	2602.0	2589.4	2581.8	2579.3
20°	2591.9	2595.7	2607.0	2620.9	2642.3	2658.7	2644.9	2625.9	2607.0	2595.7	2591.9
22.5°	2612.1	2618.4	2632.2	2657.4	2687.7	2711.6	2692.7	2661.2	2631.0	2615.8	2610.8
25°	2656.2	2661.2	2677.6	2711.6	2747.0	2769.7	2749.5	2712.9	2671.3	2651.2	2644.9
27.5°	2723.0	2730.6	2748.2	2788.5	2817.5	2830.1	2816.3	2791.0	2760.8	2739.4	2734.3
30°	2817.5	2826.3	2852.8	2895.7	2914.6	2922.1	2915.8	2899.5	2878.1	2855.4	2850.3
32.5°	2944.8	2949.9	2980.2	3020.5	3038.1	3040.6	3033.1	3025.6	2990.3	2952.4	2949.9
35°	3087.3	3096.1	3132.7	3180.6	3197.0	3198.2	3183.1	3171.7	3130.2	3099.9	3099.9
37.5°	3276.4	3280.2	3315.5	3369.7	3387.4	3382.3	3374.8	3364.7	3320.5	3281.4	3282.7
40°	3498.3	3505.9	3536.1	3599.1	3599.1	3592.8	3597.9	3590.3	3546.2	3508.4	3509.7
42.5°	3761.8	3765.6	3802.1	3868.9	3863.9	3851.3	3856.3	3846.2	3818.5	3775.6	3760.5
45°	4042.9	4058.0	4121.1	4185.3	4175.2	4134.9	4155.0	4152.5	4127.4	4063.0	4066.8
47.5°	4382.0	4407.2	4467.7	4544.6	4533.2	4470.3	4493.0	4508.1	4472.8	4402.1	4389.5
50°	4763.9	4780.3	4869.9	4941.7	4931.6	4864.8	4916.5	4919.0	4830.8	4731.2	4731.2
52.5°	5171.1	5187.5	5308.6	5420.7	5427.1	5330.0	5371.6	5369.1	5225.4	5094.3	5069.0
55°	5627.5	5635.0	5791.4	5956.6	5991.9	5897.3	5902.3	5851.9	5665.3	5512.8	5498.9
57.5°	6099.0	6126.7	6299.4	6513.7	6618.3	6560.4	6533.9	6399.0	6218.8	6043.5	6034.7
60°	6620.9	6622.1	6846.6	7100.0	7311.7	7350.8	7242.4	7062.1	6828.9	6597.0	6586.9
62.5°	6982.7	7036.9	7320.6	7749.1	8128.6	8347.9	8061.8	7683.6	7224.8	6850.4	6812.5
65°	7057.1	7093.7	7526.0	8252.1	9027.5	9500.2	8838.3	8034.1	7251.2	6752.0	6726.8
67.5°	6455.8	6494.8	7077.3	8191.7	9657.8	10627.2	9342.6	7865.1	6802.4	6184.7	6135.5
70°	4993.4	5037.5	5757.3	7210.9	9517.8	10981.4	8983.3	6860.4	5609.9	4943.0	4853.5
72.5°	2655.0	2817.5	3432.7	4949.3	7725.2	9454.8	7365.9	5006.0	3618.1	2957.5	2839.0
75°	969.4	989.6	1332.5	2194.8	4494.2	6483.5	4666.9	2387.7	1372.8	1060.2	1006.0
77.5°	400.9	399.6	438.7	663.1	1632.5	3320.5	1821.6	700.9	437.4	404.7	399.6
80°	237.0	237.0	261.0	276.1	429.9	1002.2	480.3	312.6	262.2	239.5	243.3
82.5°	105.9	112.2	165.2	174.0	208.0	274.8	231.9	199.1	171.5	118.5	107.1
85°	58.0	50.5	87.0	90.7	99.6	102.1	109.7	108.4	99.6	58.0	59.3
87.5°	11.4	13.9	25.2	18.9	21.4	18.9	25.2	35.3	36.6	20.2	16.4
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)