

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: P647862

Luminaire Tested: **GALN-SA4A-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12759 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

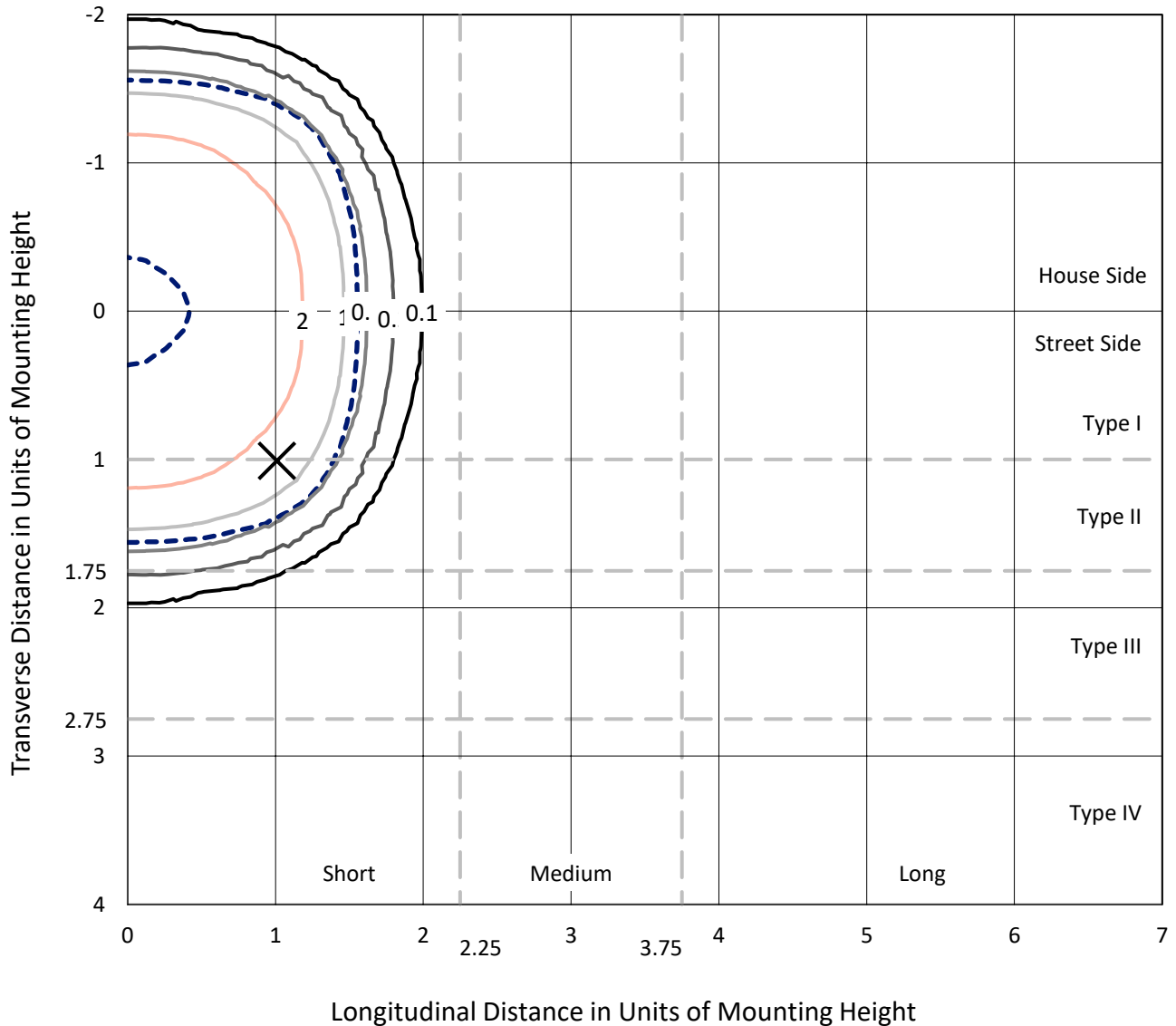
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

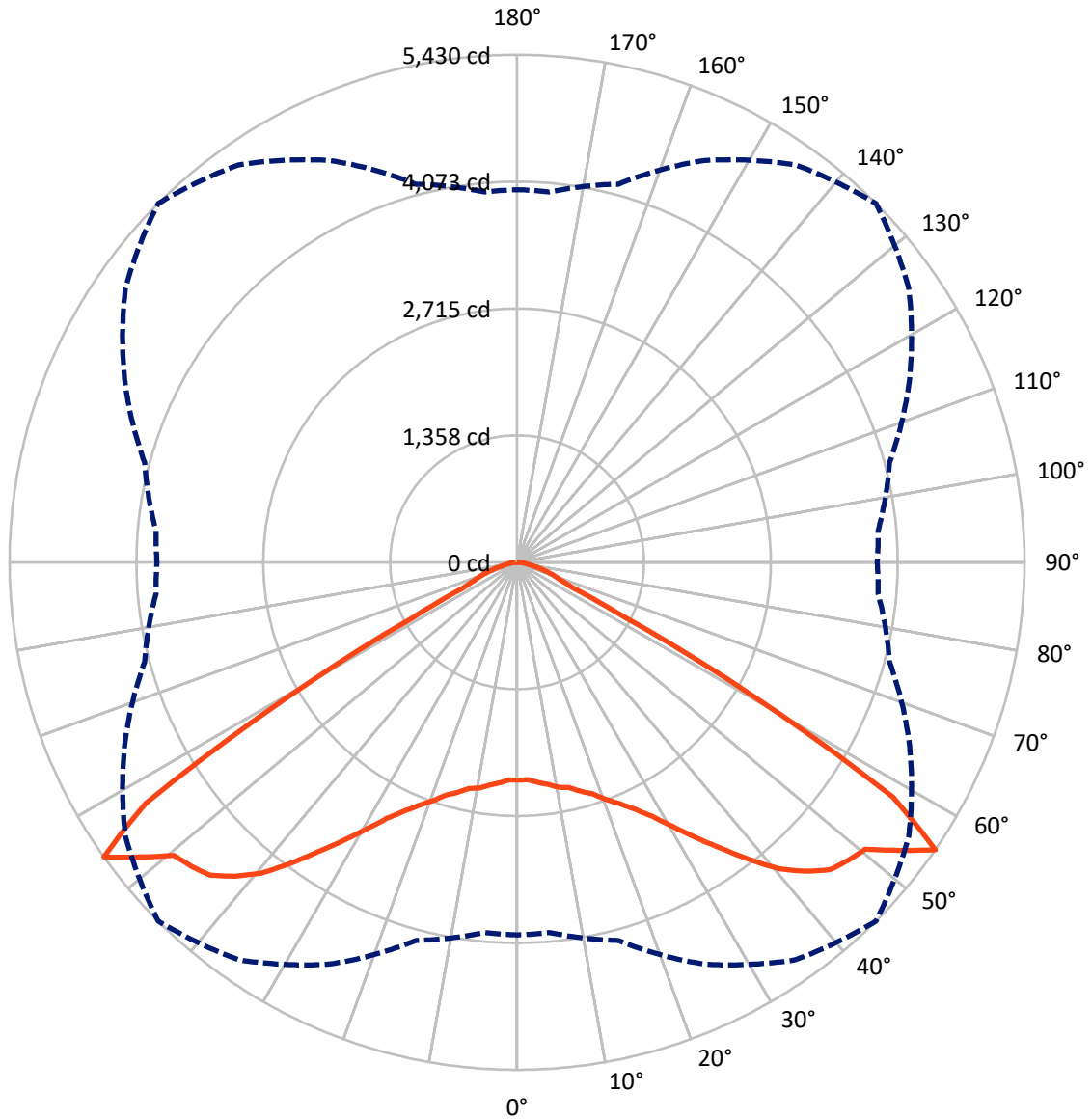
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 55-Deg Vertical

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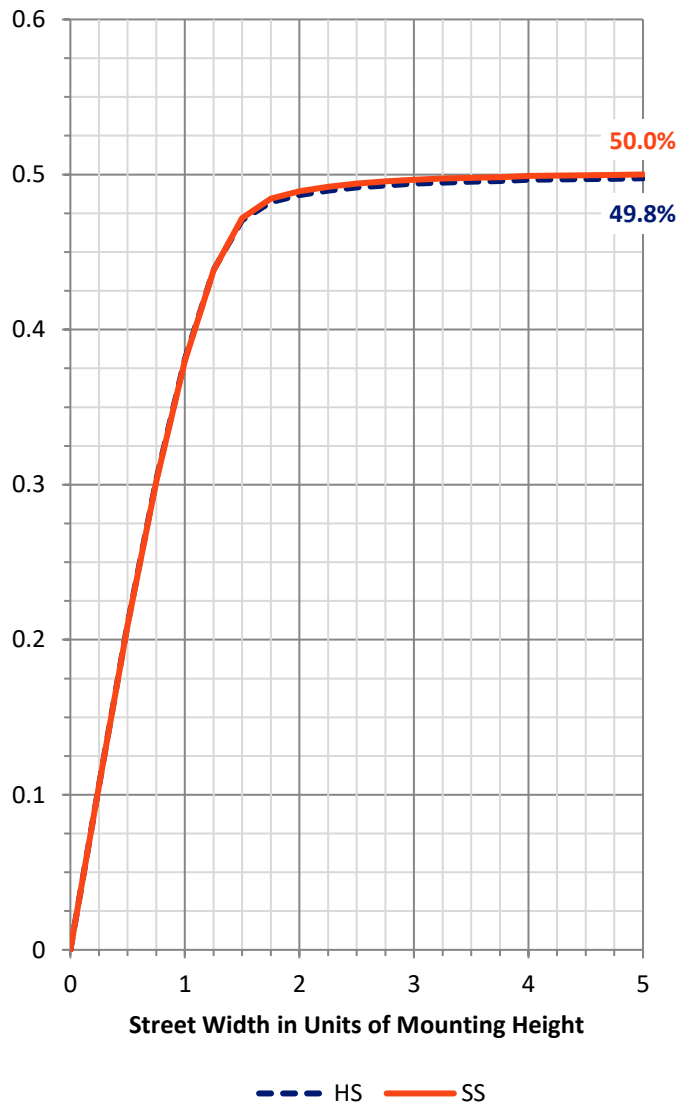
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6379.5	0.0	6379.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6379.5	0.0	6379.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12759.0	0.0	12759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	1.8
10°-20°	721.1	5.7
20°-30°	1344.6	10.5
30°-40°	2251.3	17.6
40°-50°	3503.2	27.5
50°-60°	3637.4	28.5
60°-70°	771.4	6.0
70°-80°	254.0	2.0
80°-90°	48.4	0.4
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°	12759.0	100.0
0°-180°	12759.0	100.0

**Coefficient of Utilization**



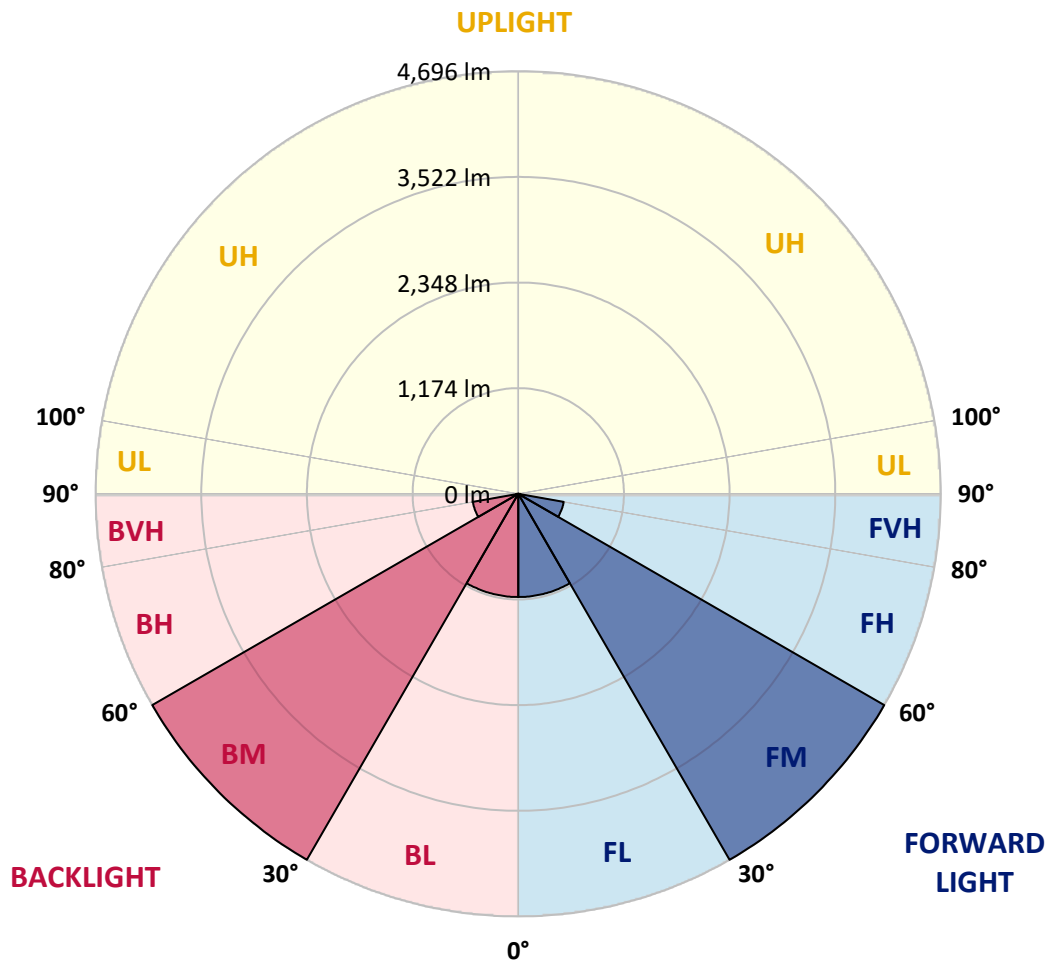
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.6	9.0			
FM (30°-60°)	4696.0	36.8			
FH (60°-80°)	512.7	4.0			G0/660
FVH (80°-90°)	24.2	0.2			G1/100
BL (0°-30°)	1146.6	9.0	B3/2500		
BM (30°-60°)	4696.0	36.8	B3/5000		
BH (60°-80°)	512.7	4.0	B2/1000		G0/660
BVH (80°-90°)	24.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6	2329.6
2.5°	2357.4	2346.6	2328.1	2342.0	2352.8	2329.6	2338.8	2343.4	2340.4	2328.1	2332.7
5°	2391.3	2385.1	2369.7	2380.5	2366.6	2366.6	2357.4	2345.0	2363.5	2360.4	2368.2
7.5°	2391.3	2383.5	2414.4	2394.3	2400.5	2400.5	2385.1	2372.8	2382.0	2368.2	2360.4
10°	2439.0	2449.9	2436.0	2440.6	2437.6	2448.3	2425.2	2417.5	2409.8	2405.1	2395.9
12.5°	2496.1	2488.4	2493.0	2489.9	2500.7	2472.9	2459.1	2442.2	2456.0	2436.0	2449.9
15°	2542.4	2537.7	2542.4	2554.7	2543.9	2542.4	2517.7	2500.7	2479.1	2483.8	2462.2
17.5°	2605.6	2601.0	2602.5	2613.3	2611.8	2604.0	2585.5	2553.1	2545.5	2533.1	2519.2
20°	2699.6	2691.9	2688.8	2693.4	2701.2	2707.3	2670.3	2658.0	2631.8	2611.8	2588.6
22.5°	2779.8	2776.7	2789.0	2769.0	2786.0	2804.5	2769.0	2762.8	2698.1	2687.3	2662.6
25°	2890.8	2886.1	2878.5	2907.7	2927.8	2926.2	2892.3	2858.4	2809.1	2796.7	2796.7
27.5°	3008.0	2981.7	3021.8	3029.6	3065.1	3075.8	3046.5	2997.2	2950.9	2924.7	2930.9
30°	3154.5	3129.8	3139.0	3194.6	3240.8	3280.8	3206.9	3134.4	3069.7	3023.4	3015.6
32.5°	3300.9	3276.2	3304.0	3358.0	3450.4	3510.6	3438.2	3311.7	3236.1	3168.3	3182.2
35°	3419.6	3438.2	3482.9	3564.5	3660.1	3757.3	3641.7	3544.5	3436.6	3361.0	3371.8
37.5°	3610.8	3667.9	3703.3	3797.4	3933.0	4033.2	3913.0	3786.6	3670.9	3572.3	3538.4
40°	3860.6	3899.1	3939.2	4050.2	4210.6	4310.7	4196.6	4031.7	3917.6	3815.9	3811.3
42.5°	4135.0	4172.0	4213.6	4349.3	4444.9	4520.4	4415.6	4327.7	4201.3	4121.2	4116.5
45°	4454.2	4427.9	4474.2	4563.6	4643.8	4693.1	4625.3	4582.1	4491.1	4417.1	4409.5
47.5°	4666.9	4643.8	4727.0	4807.2	4819.5	4765.6	4779.4	4819.5	4723.9	4602.2	4640.7
50°	4790.2	4790.2	4845.8	4919.7	4896.6	4827.3	4936.7	4939.8	4844.2	4736.3	4736.3
52.5°	4575.9	4623.8	4781.0	5023.0	5100.1	5120.2	5095.5	4990.7	4740.9	4520.4	4509.7
55°	3987.0	3976.2	4189.0	4744.0	5192.6	5430.1	5115.6	4633.0	4125.8	3877.5	3852.8
57.5°	2593.2	2605.6	2923.2	3489.0	4298.4	4740.9	4210.6	3532.2	2923.2	2580.9	2613.3
60°	1167.1	1208.7	1401.5	1823.9	2519.2	2880.0	2525.4	1916.4	1470.9	1276.6	1293.5
62.5°	670.6	678.4	686.1	814.1	1073.1	1268.9	1114.7	860.3	758.6	724.7	724.7
65°	565.8	561.2	562.7	573.5	601.3	641.4	624.4	601.3	604.4	601.3	596.6
67.5°	481.0	487.2	482.6	490.3	491.8	498.0	508.8	518.0	519.6	522.7	519.6
70°	394.7	396.2	399.3	405.5	407.0	411.6	427.0	434.8	439.4	439.4	445.6
72.5°	302.2	300.7	303.7	309.9	317.6	319.2	333.0	343.8	350.0	342.2	343.8
75°	198.9	200.4	205.1	209.7	220.5	231.3	235.9	246.6	248.2	251.3	243.6
77.5°	118.7	121.8	126.5	135.7	144.9	154.2	165.0	172.7	175.8	172.7	163.4
80°	77.1	77.1	83.2	91.0	101.8	109.5	115.6	121.8	126.5	121.8	118.7
82.5°	47.8	47.8	55.5	64.8	72.4	77.1	86.4	94.0	98.7	95.6	91.0
85°	24.7	26.2	32.3	40.1	46.3	49.3	47.8	43.1	38.5	37.0	33.9
87.5°	7.7	7.7	9.2	9.2	7.7	7.7	9.2	7.7	9.2	9.2	9.2
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)