

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: P452337

Luminaire Tested: **GALN-SA3B-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17727 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

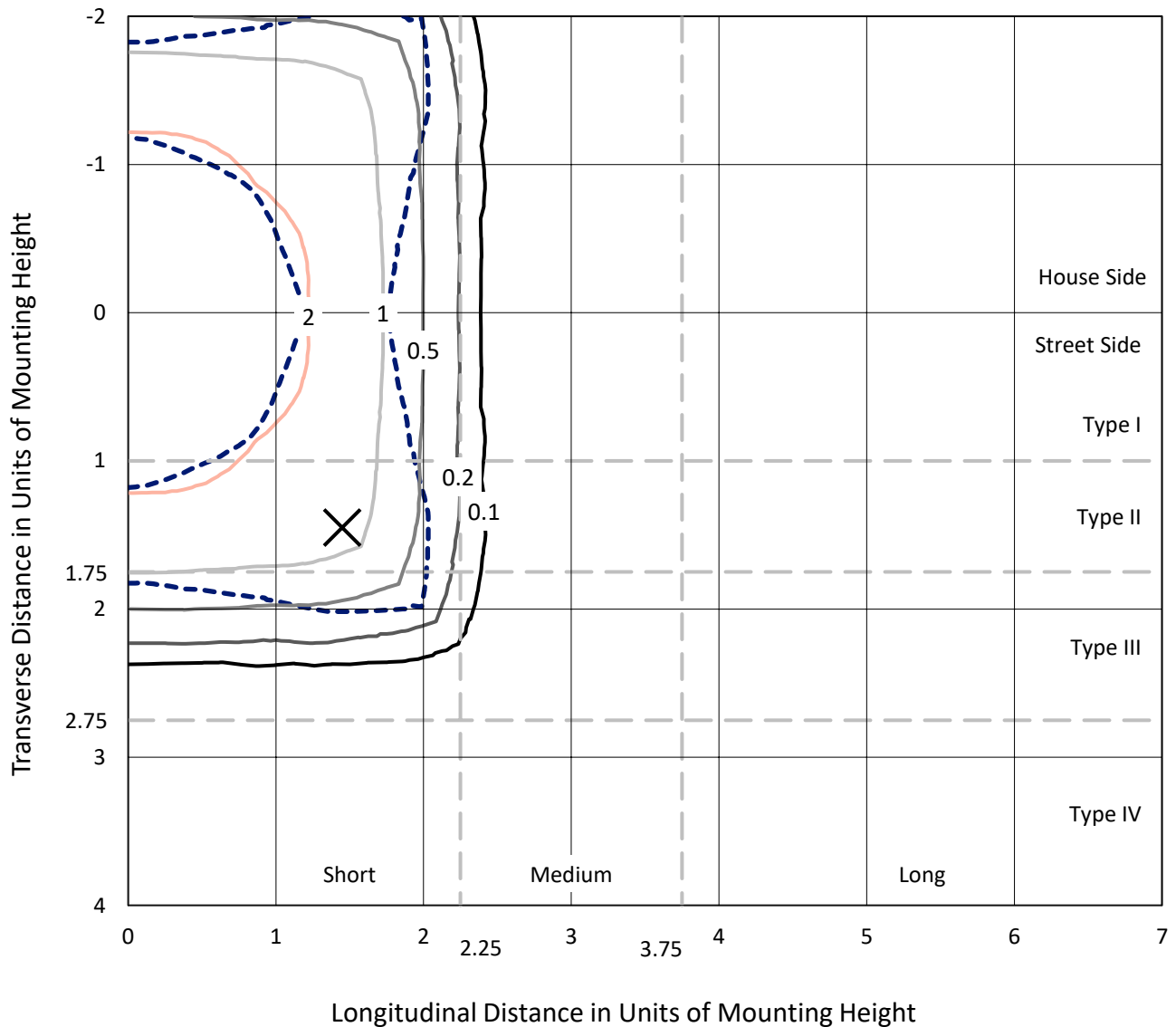
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

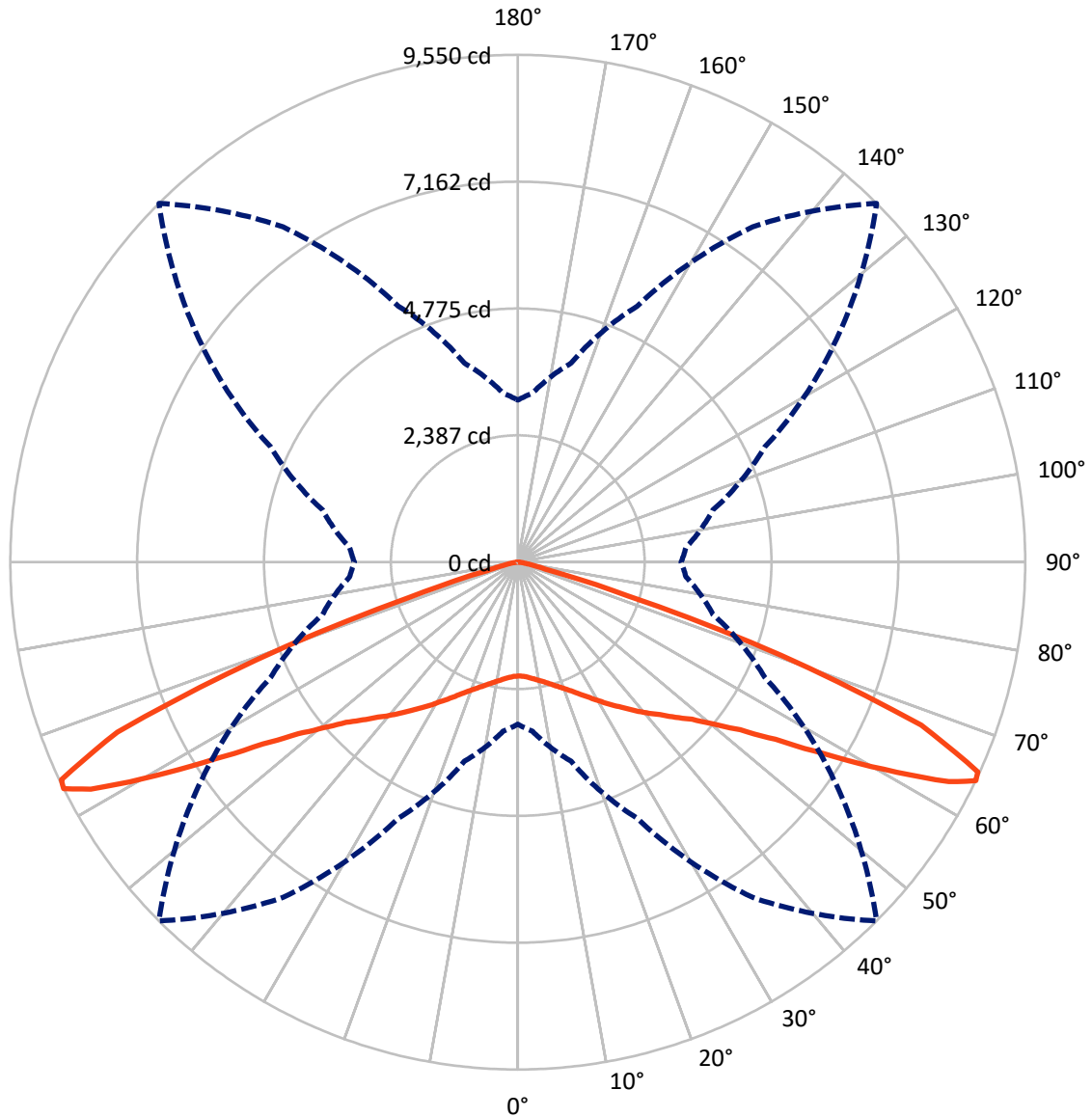
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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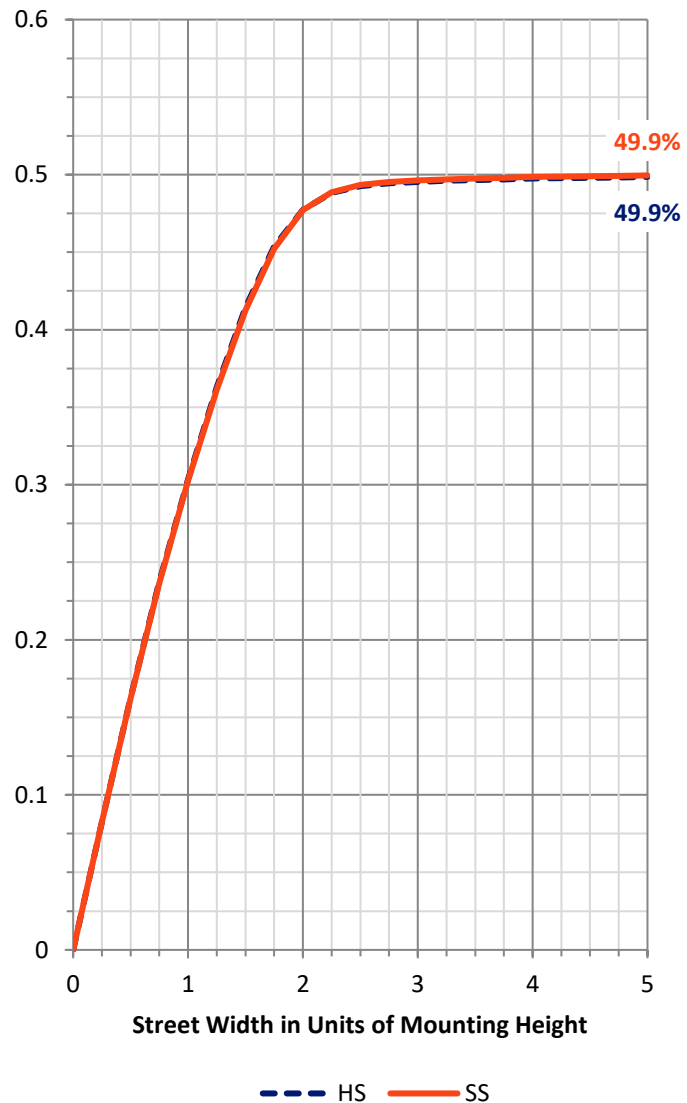
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8863.5	0.0	8863.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8863.5	0.0	8863.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17727.0	0.0	17727.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	1.2
10°-20°	679.0	3.8
20°-30°	1283.1	7.2
30°-40°	2124.9	12.0
40°-50°	3317.4	18.7
50°-60°	5128.6	28.9
60°-70°	4422.3	24.9
70°-80°	501.2	2.8
80°-90°	60.0	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°	17727.0	100.0
0°-180°	17727.0	100.0



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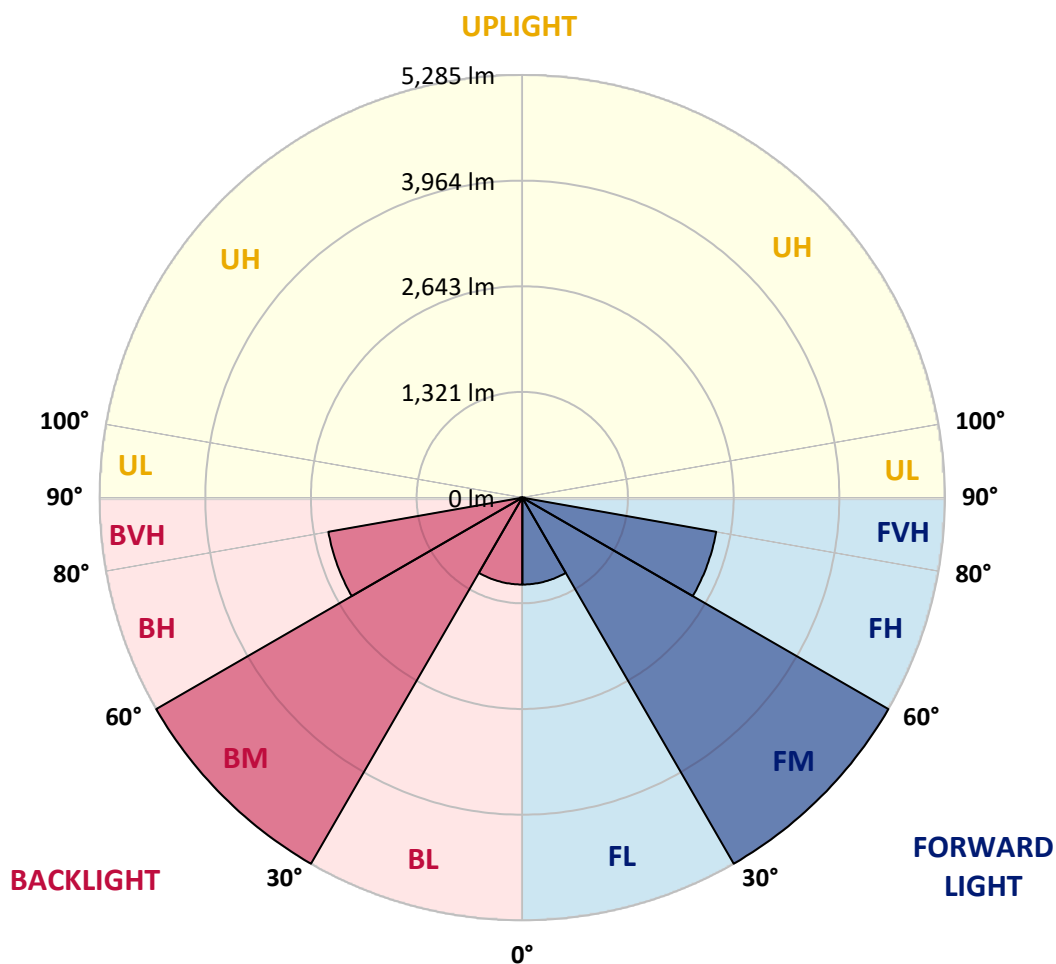
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.3	6.1			
FM	(30°-60°)	5285.5	29.8			
FH	(60°-80°)	2461.7	13.9			G2/5000
FVH	(80°-90°)	30.0	0.2			G1/100
BL	(0°-30°)	1086.3	6.1	B3/2500		
BM	(30°-60°)	5285.5	29.8	B4/8500		
BH	(60°-80°)	2461.7	13.9	B3/2500		G2/5000
BVH	(80°-90°)	30.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6	2142.6
2.5°	2151.1	2155.8	2152.0	2151.1	2150.1	2150.1	2150.1	2151.1	2154.8	2157.6	2155.8
5°	2178.3	2182.0	2180.2	2179.2	2178.3	2179.2	2177.3	2176.4	2179.2	2179.2	2178.3
7.5°	2212.1	2216.8	2214.9	2216.8	2217.7	2218.7	2214.0	2210.2	2209.3	2212.1	2210.2
10°	2258.1	2261.8	2262.8	2263.7	2265.6	2264.7	2259.0	2252.5	2251.5	2250.6	2249.6
12.5°	2309.7	2312.5	2313.5	2317.2	2320.1	2321.0	2314.4	2308.8	2299.4	2301.3	2297.5
15°	2367.9	2373.6	2372.6	2378.3	2385.8	2387.7	2381.1	2371.7	2363.3	2358.6	2355.7
17.5°	2439.3	2443.1	2441.2	2446.8	2456.2	2460.9	2455.3	2443.1	2434.6	2424.3	2418.6
20°	2523.8	2530.4	2532.3	2532.3	2540.7	2545.4	2537.0	2533.2	2520.1	2512.5	2507.8
22.5°	2619.6	2622.4	2628.0	2633.7	2642.1	2640.2	2637.4	2631.8	2619.6	2613.0	2605.5
25°	2727.6	2730.4	2744.5	2756.7	2759.5	2757.6	2753.8	2751.0	2739.8	2724.7	2719.1
27.5°	2853.4	2859.0	2877.8	2889.0	2889.0	2890.0	2882.5	2891.9	2867.4	2849.6	2847.7
30°	3011.1	3014.9	3030.8	3042.1	3036.5	3031.8	3029.9	3039.3	3013.0	2981.1	2973.5
32.5°	3167.0	3180.1	3194.2	3218.6	3198.9	3190.4	3188.6	3195.1	3165.1	3129.4	3119.1
35°	3334.1	3343.5	3369.8	3390.4	3372.6	3352.9	3361.3	3382.0	3346.3	3298.4	3296.5
37.5°	3519.1	3527.5	3561.3	3582.9	3569.8	3536.0	3550.0	3574.5	3538.8	3479.6	3467.4
40°	3711.5	3729.4	3771.6	3794.2	3772.6	3727.5	3753.8	3780.1	3748.2	3679.6	3652.4
42.5°	3927.5	3955.7	4016.7	4027.9	3986.6	3925.6	3971.6	4013.9	3991.3	3912.5	3902.1
45°	4180.1	4197.0	4272.1	4296.5	4239.2	4163.2	4220.4	4297.4	4280.5	4189.4	4169.7
47.5°	4462.7	4478.6	4556.6	4593.2	4520.9	4418.5	4521.8	4622.3	4612.0	4514.3	4504.9
50°	4796.9	4800.7	4908.7	4950.0	4877.7	4789.4	4881.4	5006.3	4965.0	4840.1	4838.2
52.5°	5163.1	5167.8	5303.9	5383.7	5343.4	5243.8	5352.8	5428.8	5323.7	5160.3	5148.1
55°	5480.5	5503.9	5689.8	5902.0	5957.4	5885.1	5918.0	5882.3	5623.2	5394.1	5358.4
57.5°	5610.0	5656.0	5938.6	6334.9	6695.4	6802.4	6548.9	6209.1	5742.4	5418.5	5383.7
60°	5293.6	5343.4	5781.8	6533.9	7454.1	7918.8	7206.2	6264.4	5471.1	5015.7	4961.2
62.5°	4239.2	4253.3	4898.3	6065.4	7896.3	9100.0	7483.2	5792.2	4681.4	4062.7	4041.1
64°	3050.5	3195.1	3878.7	5318.0	7702.9	9549.7	7323.5	5130.2	3802.6	3176.4	3074.9
65°	2281.6	2321.0	3126.6	4541.5	7362.0	9515.9	7013.7	4497.4	3149.1	2430.9	2318.2
67.5°	861.9	866.6	1153.9	2263.7	5241.0	8187.3	5352.8	2446.8	1326.7	959.6	924.8
70°	357.7	364.3	423.5	761.5	2252.5	5257.0	2581.1	882.6	485.4	393.4	387.8
72.5°	262.0	265.7	283.6	338.0	692.9	2158.6	848.8	374.6	284.5	254.4	251.6
75°	205.6	207.5	220.6	248.8	323.0	598.1	353.0	257.3	216.9	195.3	193.4
77.5°	156.8	161.5	170.9	189.7	216.9	283.6	233.8	192.5	167.1	149.3	146.5
80°	108.0	113.6	131.4	139.0	145.5	184.0	159.6	145.5	130.5	108.9	102.3
82.5°	66.7	70.4	88.3	94.8	92.0	103.3	102.3	104.2	93.0	67.6	62.9
85°	34.7	36.6	47.9	49.8	46.0	42.3	52.6	61.0	57.3	38.5	37.6
87.5°	7.5	8.5	10.3	9.4	10.3	10.3	13.1	19.7	20.7	13.1	12.2
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)