

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: P452511

Luminaire Tested: **GALN-SA3C-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452511  
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-SA3C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18318 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

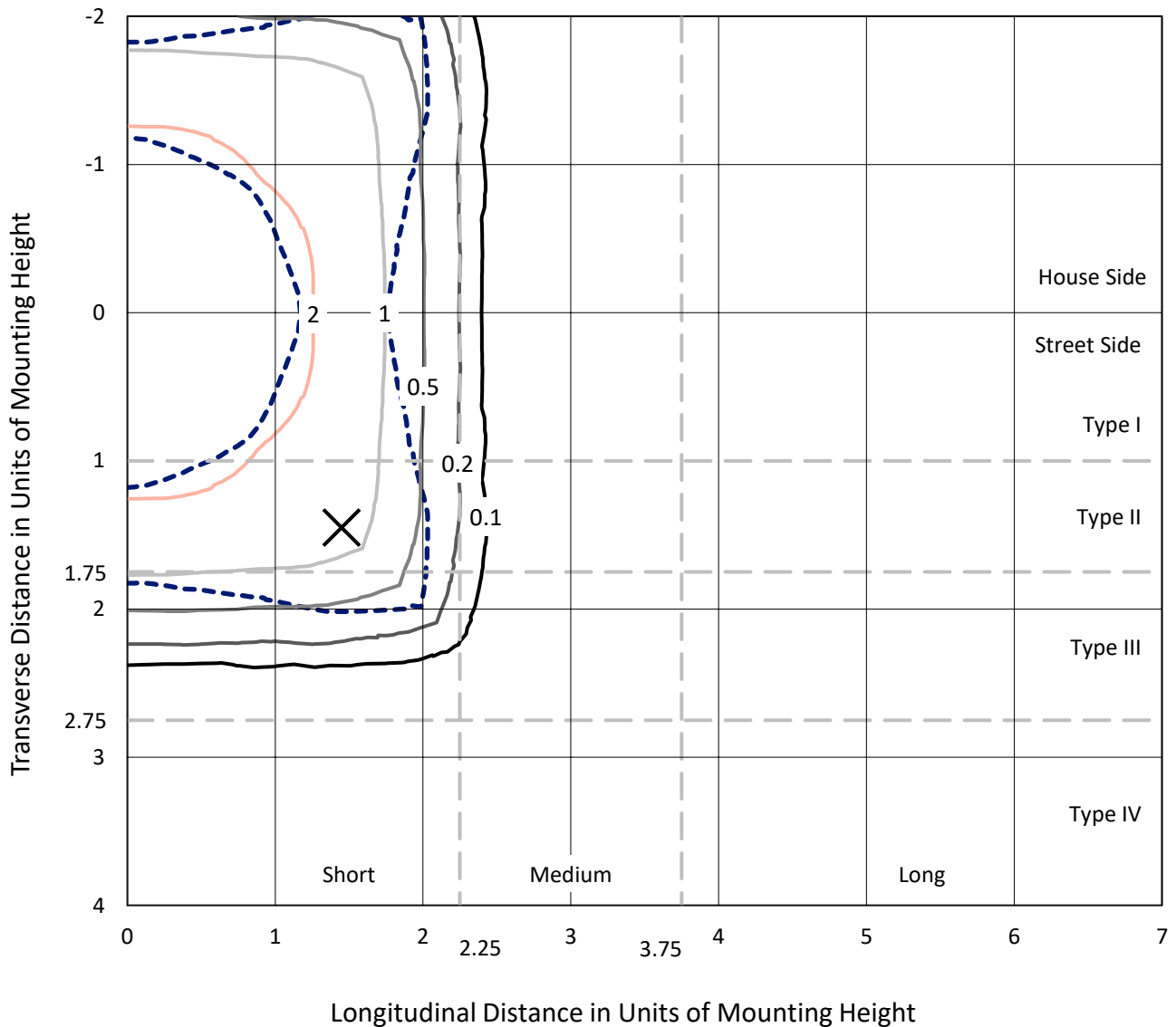
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

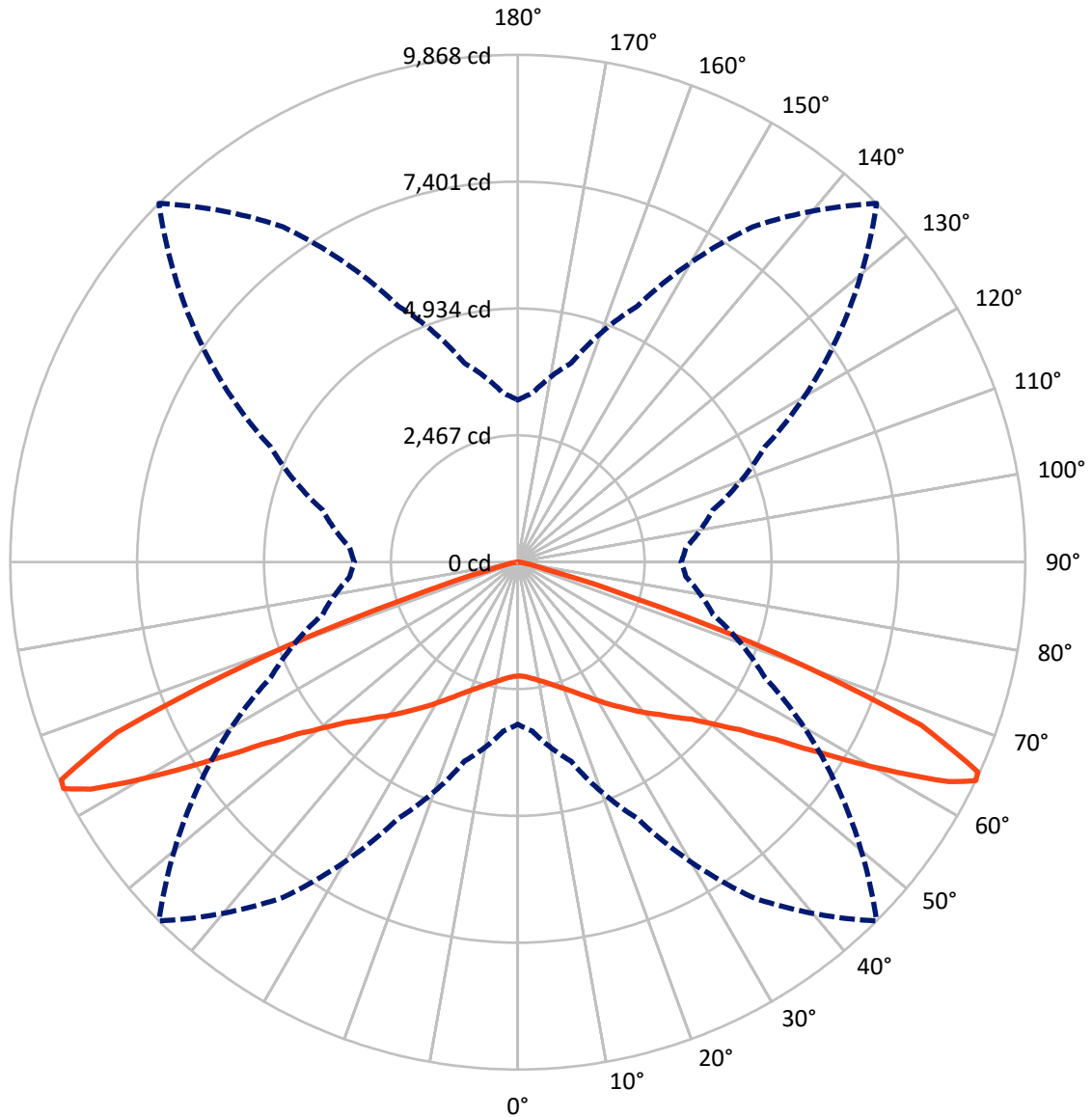
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	9159.0	0.0	9159.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9159.0	0.0	9159.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18318.0	0.0	18318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.5	1.2
10°-20°	701.6	3.8
20°-30°	1325.9	7.2
30°-40°	2195.8	12.0
40°-50°	3428.0	18.7
50°-60°	5299.6	28.9
60°-70°	4569.8	24.9
70°-80°	517.9	2.8
80°-90°	62.1	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°	18318.0	100.0
0°-180°	18318.0	100.0

**Coefficient of Utilization**



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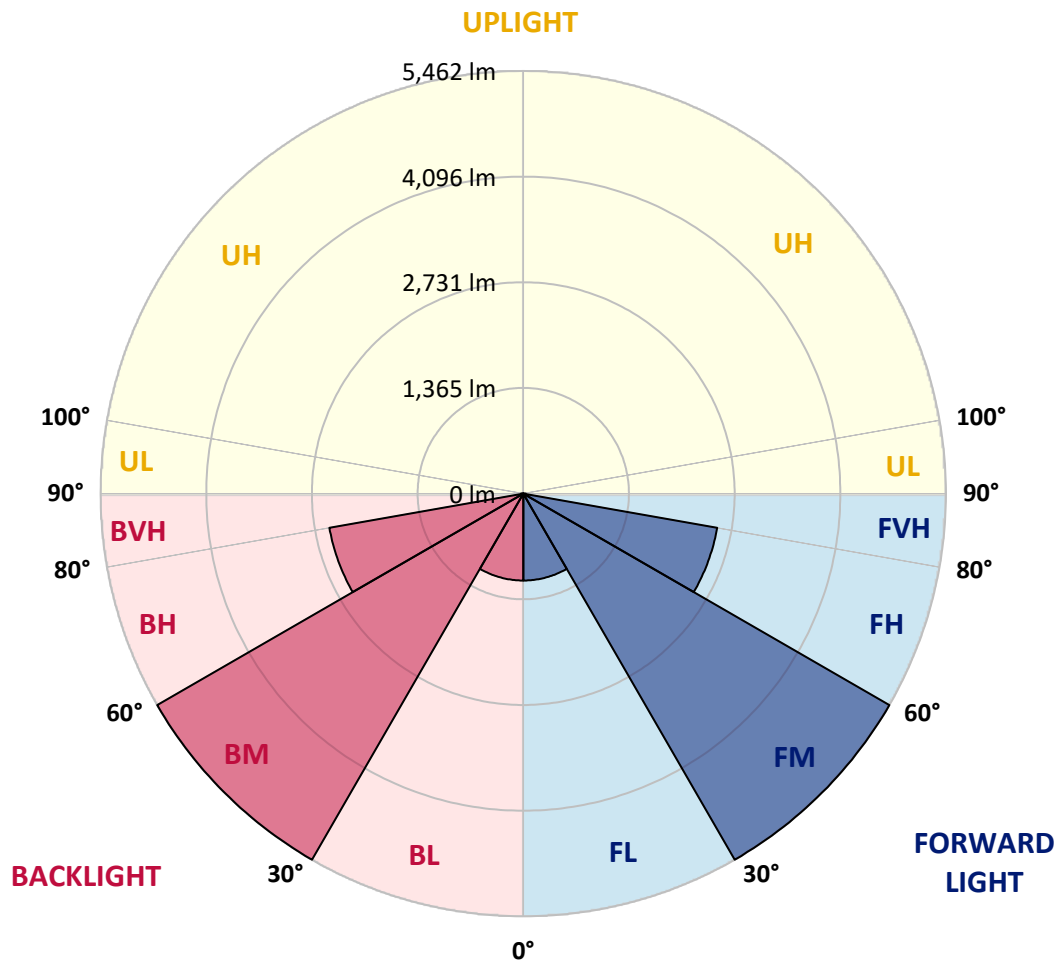
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.5	6.1			
FM	(30°-60°)	5461.7	29.8			
FH	(60°-80°)	2543.8	13.9			G2/5000
FVH	(80°-90°)	31.0	0.2			G1/100
BL	(0°-30°)	1122.5	6.1	B3/2500		
BM	(30°-60°)	5461.7	29.8	B4/8500		
BH	(60°-80°)	2543.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	31.0	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°	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0	2214.0
2.5°	2222.8	2227.6	2223.7	2222.8	2221.8	2221.8	2221.8	2222.8	2226.7	2229.6	2227.6
5°	2250.9	2254.8	2252.8	2251.9	2250.9	2251.9	2249.9	2249.0	2251.9	2251.9	2250.9
7.5°	2285.8	2290.7	2288.7	2290.7	2291.7	2292.6	2287.8	2283.9	2282.9	2285.8	2283.9
10°	2333.4	2337.3	2338.2	2339.2	2341.1	2340.2	2334.3	2327.6	2326.6	2325.6	2324.6
12.5°	2386.7	2389.6	2390.6	2394.5	2397.4	2398.4	2391.6	2385.8	2376.1	2378.0	2374.1
15°	2446.9	2452.7	2451.7	2457.6	2465.3	2467.3	2460.5	2450.8	2442.0	2437.2	2434.3
17.5°	2520.6	2524.5	2522.6	2528.4	2538.1	2542.9	2537.1	2524.5	2515.8	2505.1	2499.3
20°	2607.9	2614.7	2616.7	2616.7	2625.4	2630.3	2621.5	2617.6	2604.1	2596.3	2591.5
22.5°	2706.9	2709.8	2715.6	2721.5	2730.2	2728.3	2725.3	2719.5	2706.9	2700.1	2692.4
25°	2818.5	2821.4	2835.9	2848.6	2851.5	2849.5	2845.7	2842.7	2831.1	2815.6	2809.8
27.5°	2948.5	2954.3	2973.7	2985.4	2985.4	2986.3	2978.6	2988.3	2963.0	2944.6	2942.7
30°	3111.5	3115.4	3131.9	3143.5	3137.7	3132.8	3130.9	3140.6	3113.4	3080.4	3072.7
32.5°	3272.5	3286.1	3300.7	3325.9	3305.5	3296.8	3294.9	3301.7	3270.6	3233.7	3223.1
35°	3445.2	3454.9	3482.1	3503.5	3485.0	3464.6	3473.4	3494.7	3457.9	3408.4	3406.4
37.5°	3636.4	3645.1	3680.0	3702.4	3688.8	3653.8	3668.4	3693.6	3656.8	3595.6	3583.0
40°	3835.3	3853.7	3897.4	3920.7	3898.3	3851.8	3878.9	3906.1	3873.1	3802.3	3774.1
42.5°	4058.4	4087.5	4150.6	4162.2	4119.5	4056.5	4104.0	4147.7	4124.4	4042.9	4032.2
45°	4319.4	4336.9	4414.5	4439.7	4380.5	4301.9	4361.1	4440.7	4423.2	4329.1	4308.7
47.5°	4611.4	4627.9	4708.5	4746.3	4671.6	4565.8	4672.6	4776.4	4765.7	4664.8	4655.1
50°	4956.8	4960.7	5072.3	5115.0	5040.3	4949.1	5044.2	5173.2	5130.5	5001.5	4999.5
52.5°	5335.2	5340.1	5480.8	5563.2	5521.5	5418.7	5531.2	5609.8	5501.1	5332.3	5319.7
55°	5663.2	5687.4	5879.5	6098.8	6156.0	6081.3	6115.3	6078.4	5810.6	5573.9	5537.0
57.5°	5797.1	5844.6	6136.6	6546.1	6918.6	7029.2	6767.3	6416.1	5933.9	5599.1	5563.2
60°	5470.1	5521.5	5974.6	6751.7	7702.6	8182.8	7446.4	6473.3	5653.5	5182.9	5126.6
62.5°	4380.5	4395.1	5061.6	6267.6	8159.5	9403.4	7732.6	5985.3	4837.5	4198.1	4175.8
64°	3152.2	3301.7	4008.0	5495.3	7959.7	9868.1	7567.7	5301.3	3929.4	3282.2	3177.5
65°	2357.6	2398.4	3230.8	4692.9	7607.5	9833.2	7247.5	4647.3	3254.1	2511.9	2395.5
67.5°	890.7	895.5	1192.4	2339.2	5415.8	8460.3	5531.2	2528.4	1370.9	991.6	955.7
70°	369.7	376.4	437.6	786.8	2327.6	5432.3	2667.1	912.0	501.6	406.5	400.7
72.5°	270.7	274.6	293.0	349.3	716.0	2230.5	877.1	387.1	294.0	262.9	260.0
75°	212.5	214.4	228.0	257.1	333.8	618.0	364.8	265.8	224.1	201.8	199.9
77.5°	162.0	166.9	176.6	196.0	224.1	293.0	241.6	198.9	172.7	154.3	151.4
80°	111.6	117.4	135.8	143.6	150.4	190.2	164.9	150.4	134.9	112.5	105.8
82.5°	68.9	72.8	91.2	98.0	95.1	106.7	105.8	107.7	96.1	69.9	65.0
85°	35.9	37.8	49.5	51.4	47.5	43.7	54.3	63.1	59.2	39.8	38.8
87.5°	7.8	8.7	10.7	9.7	10.7	10.7	13.6	20.4	21.3	13.6	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)