

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: P530413

Luminaire Tested: **GALN-SA5C-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16726 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

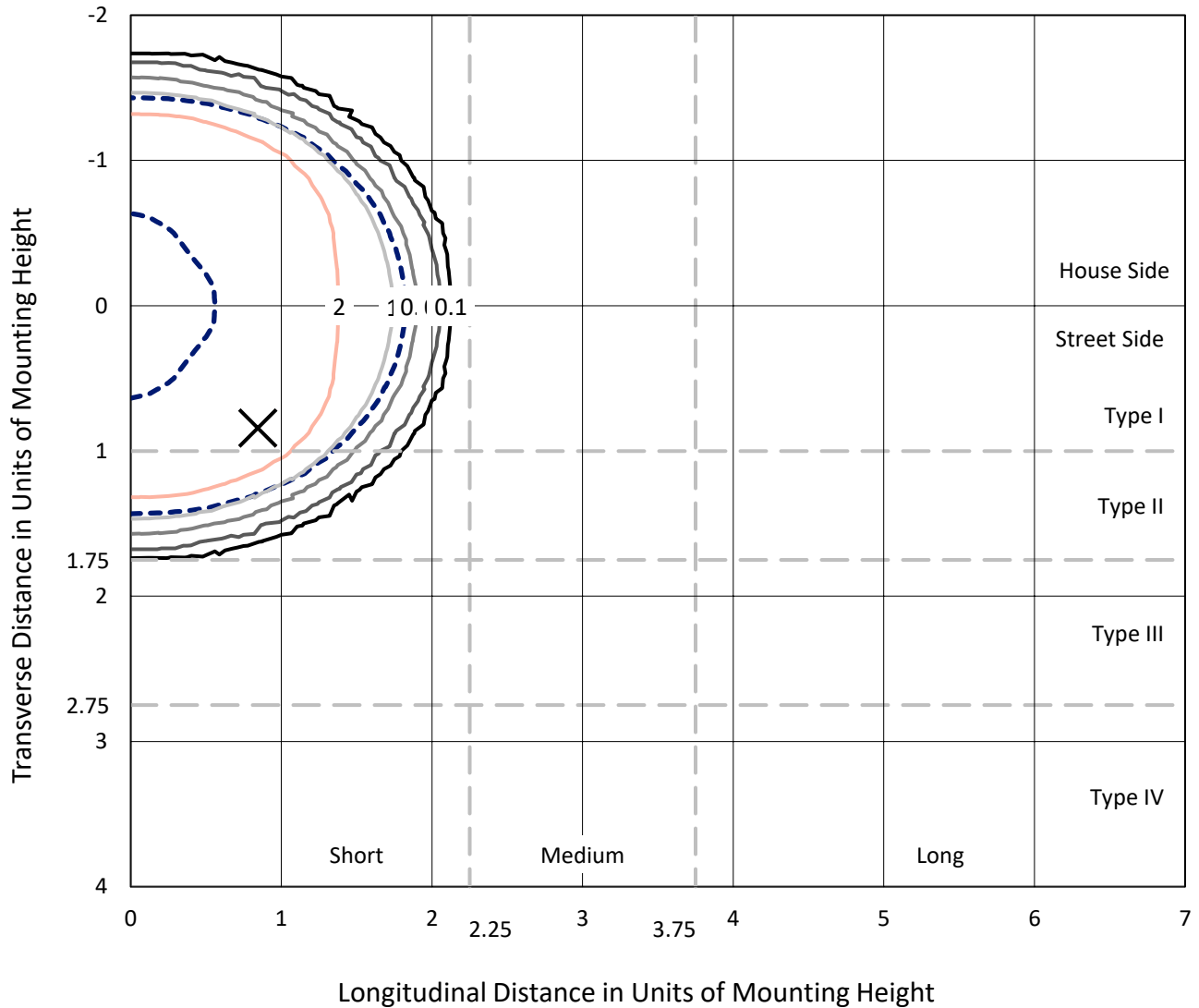
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

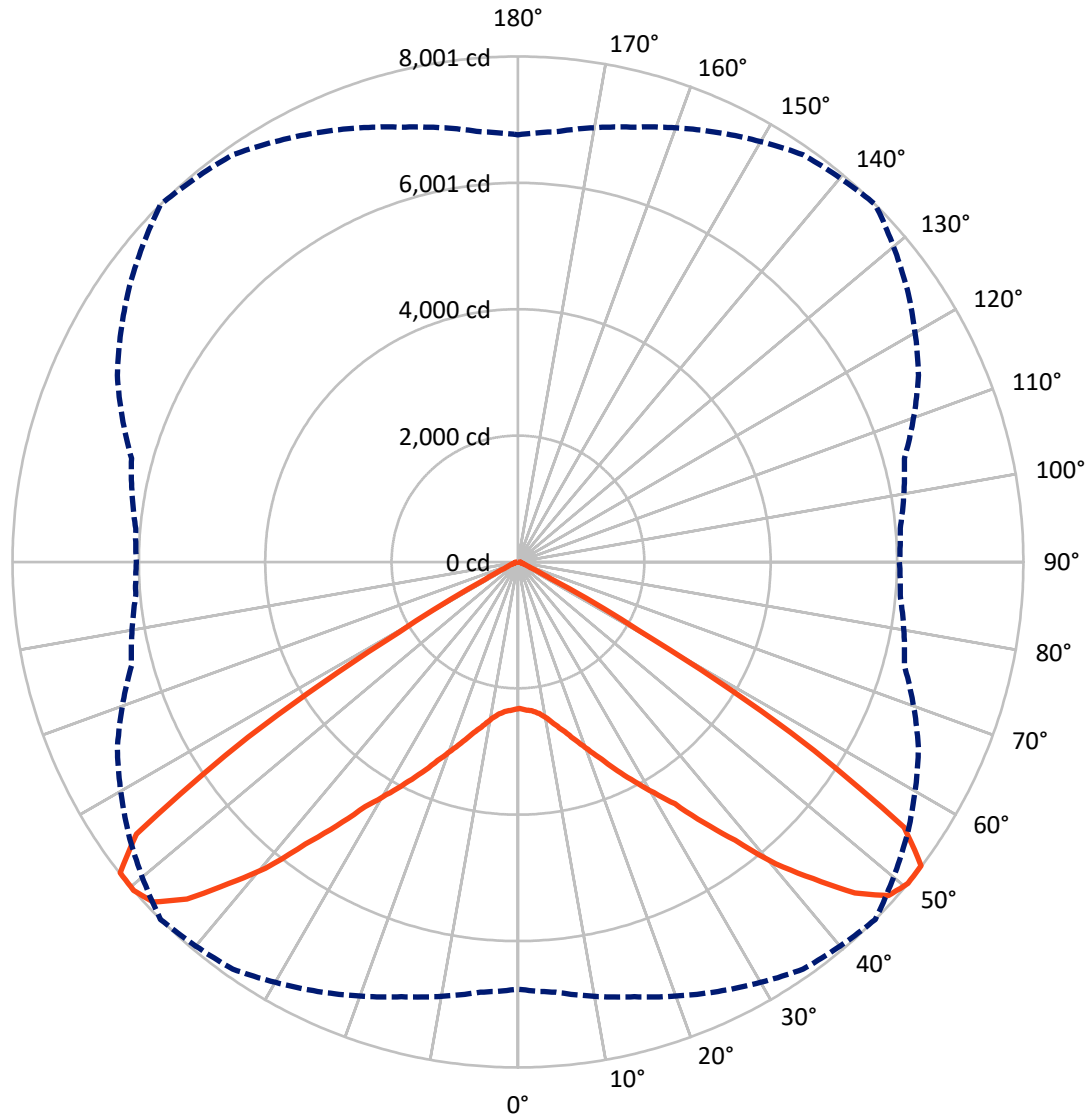
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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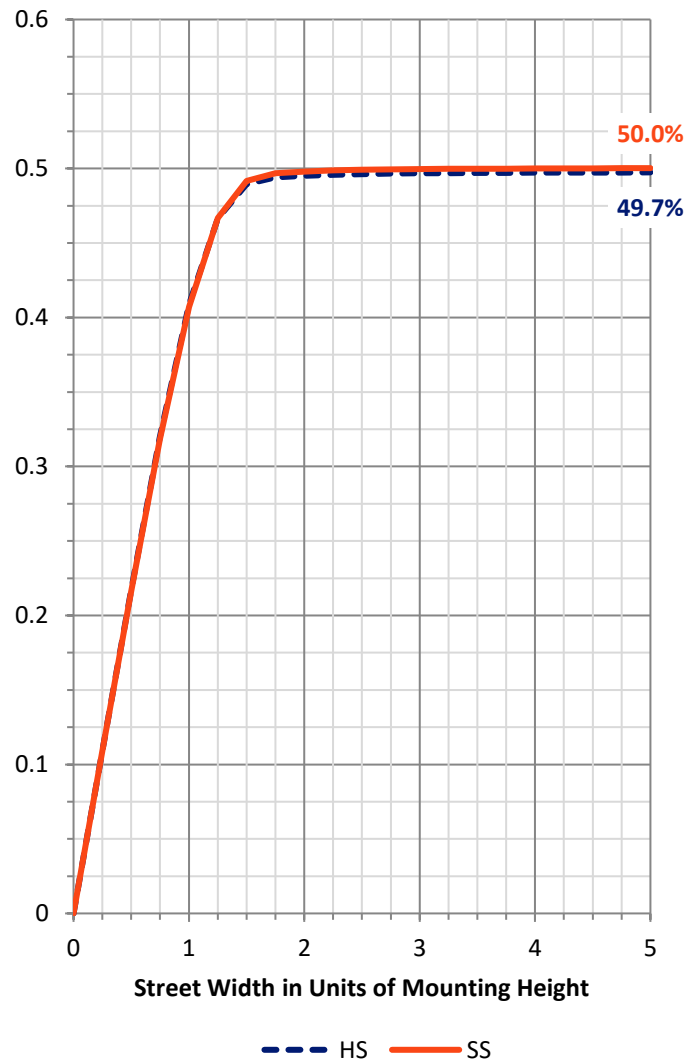
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8363.0	0.0	8363.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8363.0	0.0	8363.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16726.0	0.0	16726.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	1.4
10°-20°	795.1	4.8
20°-30°	1623.9	9.7
30°-40°	3096.8	18.5
40°-50°	5218.5	31.2
50°-60°	4976.8	29.8
60°-70°	694.7	4.2
70°-80°	66.4	0.4
80°-90°	23.0	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°	16726.0	100.0
0°-180°	16726.0	100.0

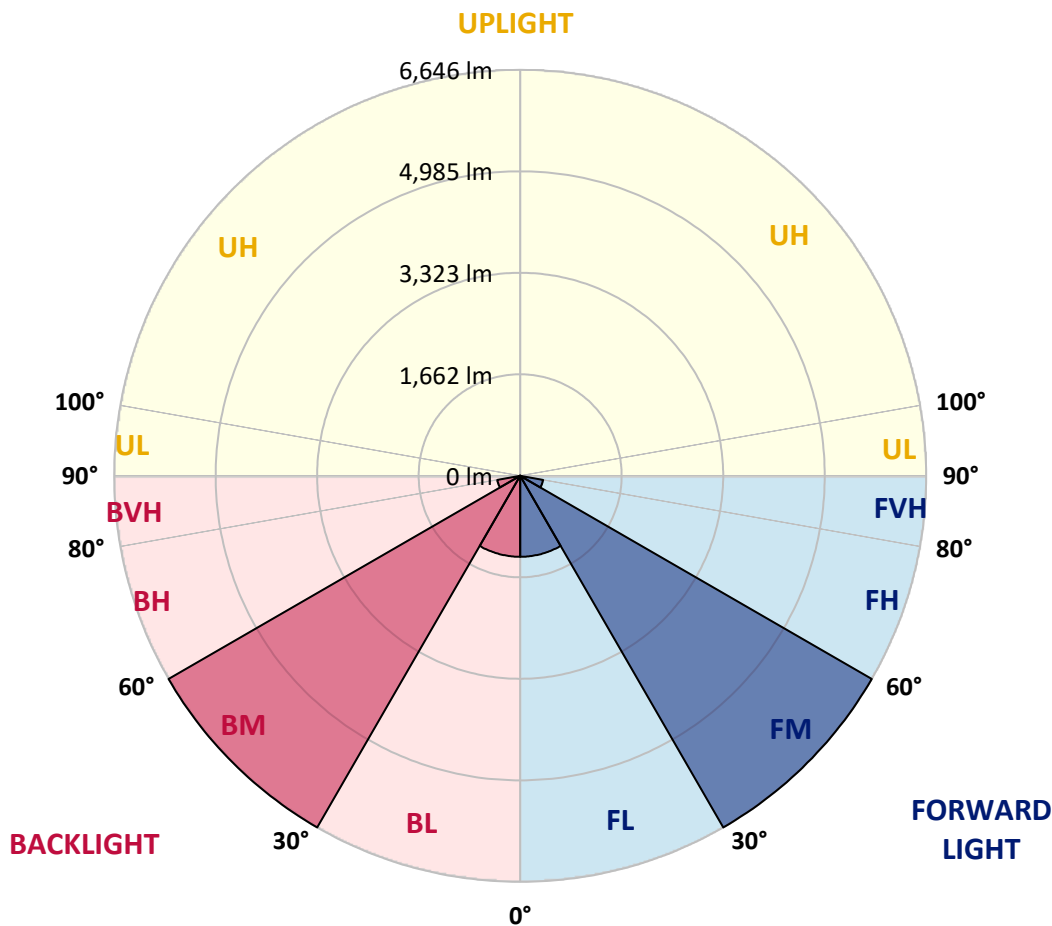


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.9	7.9			
FM (30°-60°)	6646.1	39.7			
FH (60°-80°)	380.6	2.3			G0/660
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1324.9	7.9	B3/2500		
BM (30°-60°)	6646.1	39.7	B4/8500		
BH (60°-80°)	380.6	2.3	B1/500		G0/660
BVH (80°-90°)	11.5	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°	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9	2318.9
2.5°	2310.4	2310.4	2307.6	2330.1	2318.9	2344.2	2341.4	2349.8	2358.3	2355.5	2378.0
5°	2290.7	2287.9	2287.9	2313.2	2338.6	2366.7	2392.0	2408.9	2437.1	2437.1	2465.2
7.5°	2310.4	2296.4	2316.1	2327.3	2375.2	2423.0	2465.2	2499.0	2563.7	2586.2	2577.8
10°	2316.1	2332.9	2347.0	2380.8	2439.9	2513.1	2549.6	2634.1	2707.2	2757.9	2769.1
12.5°	2352.6	2378.0	2417.4	2499.0	2552.5	2648.1	2698.8	2780.4	2881.7	2938.0	2977.4
15°	2423.0	2431.4	2482.1	2586.2	2701.6	2788.8	2867.6	2926.7	3025.2	3090.0	3092.8
17.5°	2513.1	2549.6	2620.0	2718.5	2839.5	2968.9	3030.9	3095.6	3132.2	3219.4	3239.1
20°	2693.2	2698.8	2766.3	2895.8	3047.7	3165.9	3211.0	3244.7	3230.7	3320.7	3337.6
22.5°	2862.0	2867.6	2952.1	3126.5	3289.8	3391.1	3410.8	3391.1	3348.9	3413.6	3419.2
25°	3033.7	3084.3	3146.2	3320.7	3523.3	3658.4	3661.2	3607.8	3520.5	3531.8	3559.9
27.5°	3301.0	3337.6	3402.3	3562.7	3785.1	3937.0	3911.7	3847.0	3734.4	3742.8	3734.4
30°	3613.4	3647.2	3700.6	3906.1	4069.3	4235.3	4271.9	4210.0	4041.1	4004.6	4046.8
32.5°	3990.5	4038.3	4136.8	4325.4	4463.3	4564.6	4589.9	4567.4	4409.8	4395.7	4423.9
35°	4449.2	4513.9	4604.0	4770.0	4882.6	5065.5	5065.5	4989.5	4846.0	4862.9	4860.1
37.5°	4933.2	5028.9	5169.6	5338.5	5490.4	5588.9	5558.0	5493.3	5349.7	5313.2	5349.7
40°	5541.1	5588.9	5766.2	5985.7	6171.5	6284.0	6151.8	6011.1	5667.7	5721.2	5819.7
42.5°	6095.5	6171.5	6306.6	6548.6	6759.6	6852.5	6694.9	6416.3	6002.6	5960.4	6033.6
45°	6568.3	6649.9	6827.2	7173.3	7395.6	7477.2	7128.3	6678.0	6205.2	6098.3	6129.3
47.5°	6883.5	6925.7	7173.3	7502.6	7705.2	7890.9	7390.0	6858.1	6300.9	6098.3	6087.0
50°	6762.4	6835.6	7125.5	7499.8	7868.4	8000.7	7522.3	6996.0	6331.9	6073.0	6039.2
52.5°	6005.4	6132.1	6455.7	6959.4	7516.6	7989.4	7705.2	6951.0	6320.6	6098.3	6149.0
55°	4179.0	4181.9	4575.8	5318.8	6303.7	7418.2	7437.9	7001.7	6393.8	6255.9	6258.7
57.5°	1680.1	1764.5	2065.6	2811.4	3720.3	5093.6	6056.1	6495.1	6402.2	6368.5	6455.7
60°	424.9	427.8	520.6	793.6	1308.6	2183.8	3171.6	4291.6	4941.7	5164.0	5195.0
62.5°	216.7	219.5	242.0	281.4	357.4	585.3	1041.2	1651.9	2349.8	2704.4	2797.3
65°	177.3	177.3	191.4	211.1	213.9	225.1	270.2	385.5	560.0	636.0	644.4
67.5°	135.1	135.1	146.3	157.6	163.2	160.4	154.8	160.4	194.2	185.7	180.1
70°	84.4	87.2	92.9	104.1	109.8	112.6	115.4	121.0	137.9	143.5	137.9
72.5°	50.7	50.7	53.5	61.9	70.4	76.0	84.4	90.1	98.5	112.6	109.8
75°	22.5	22.5	28.1	36.6	45.0	53.5	61.9	70.4	76.0	84.4	87.2
77.5°	5.6	8.4	14.1	25.3	33.8	45.0	56.3	64.7	70.4	70.4	67.5
80°	2.8	2.8	11.3	19.7	36.6	47.8	61.9	67.5	76.0	70.4	61.9
82.5°	2.8	2.8	11.3	19.7	33.8	47.8	64.7	73.2	78.8	70.4	59.1
85°	0.0	2.8	8.4	16.9	28.1	33.8	28.1	19.7	11.3	11.3	8.4
87.5°	0.0	0.0	2.8	2.8	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)