

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: P454368

Luminaire Tested: **GALN-SA5C-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30817 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

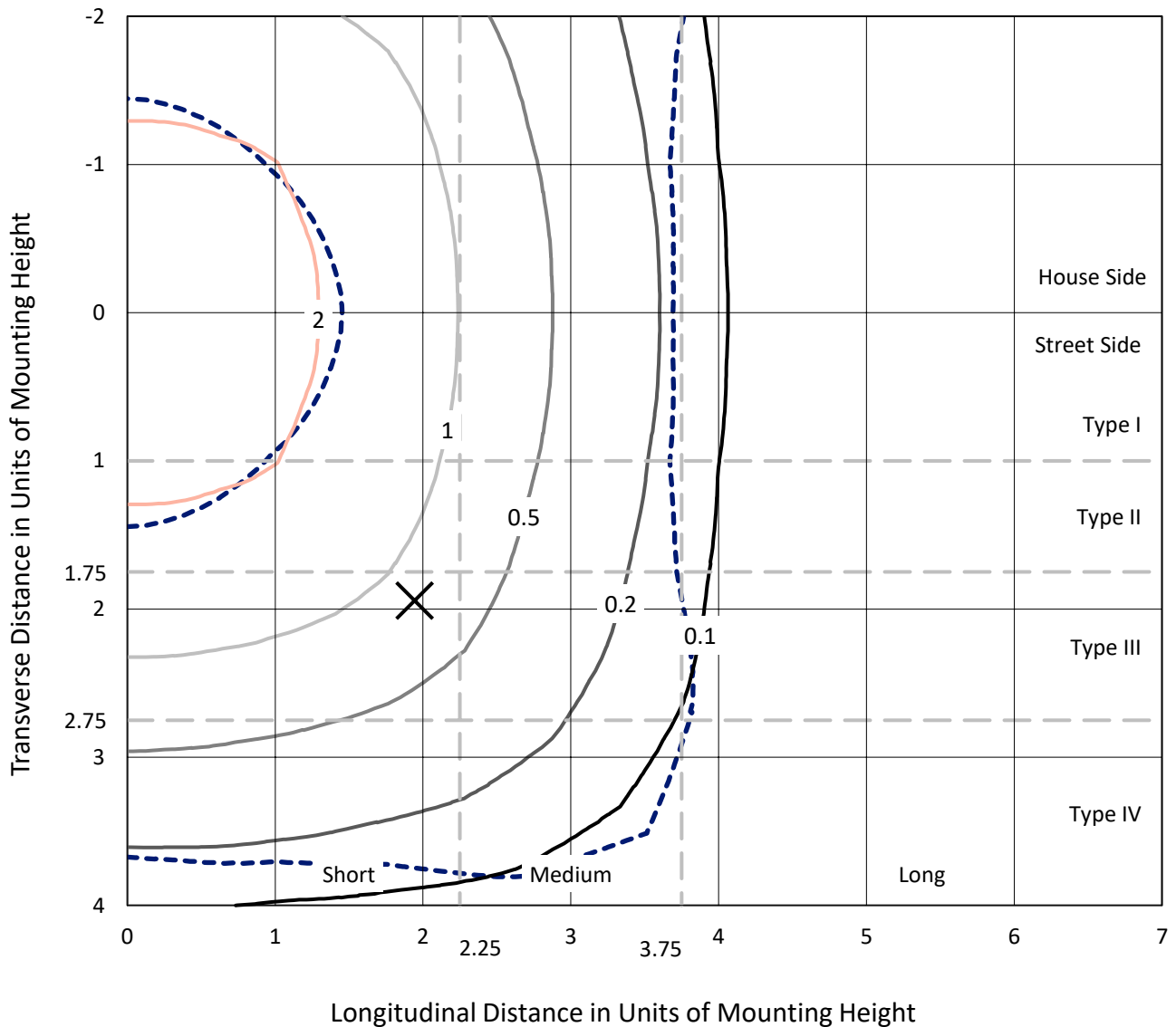
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

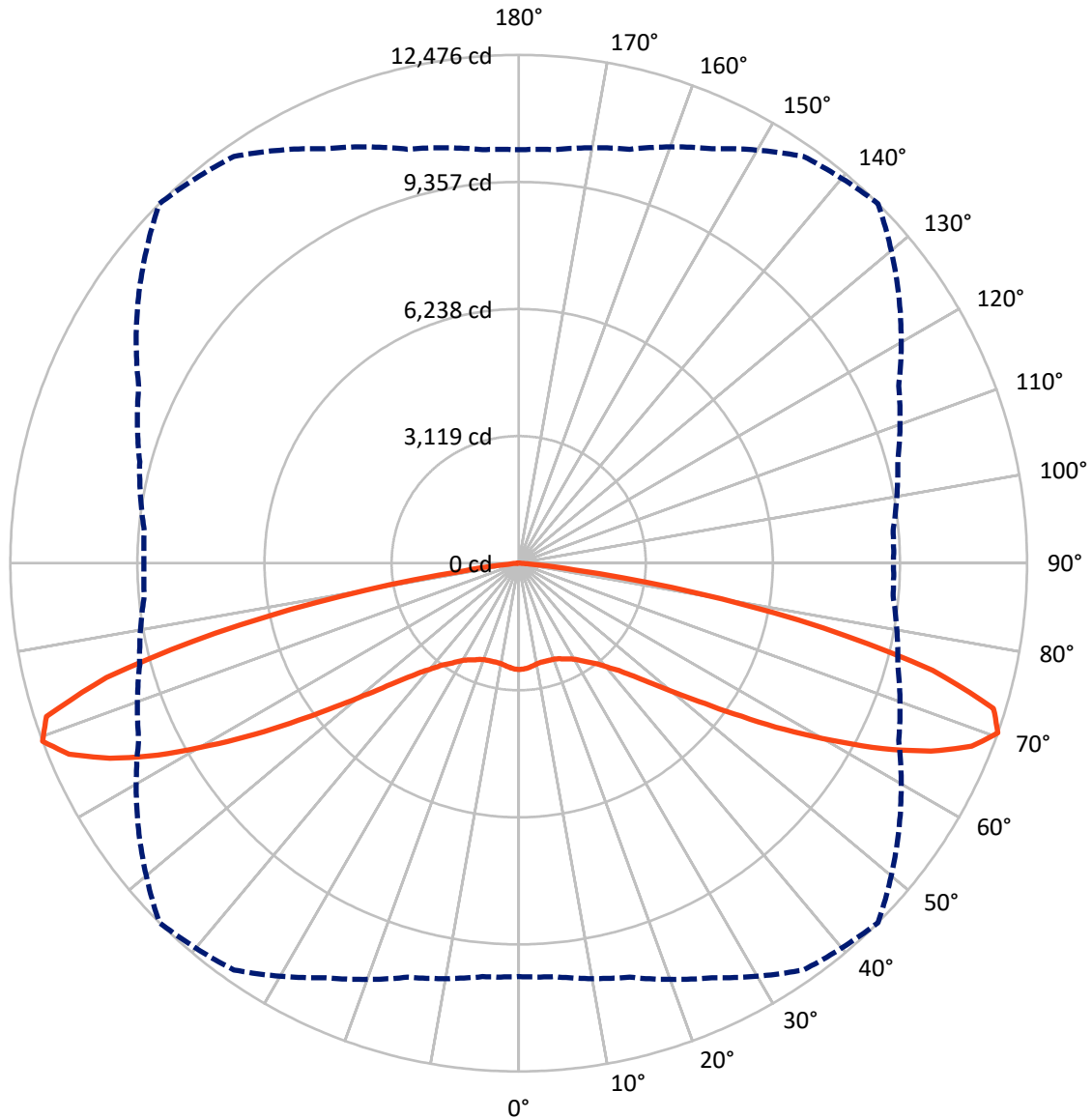
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	15408.5	0.0	15408.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15408.5	0.0	15408.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30817.0	0.0	30817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	0.8
10°-20°	714.3	2.3
20°-30°	1217.0	3.9
30°-40°	1886.3	6.1
40°-50°	3175.0	10.3
50°-60°	5776.8	18.7
60°-70°	9779.9	31.7
70°-80°	7570.0	24.6
80°-90°	453.6	1.5
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°	30817.0	100.0
0°-180°	30817.0	100.0

**Coefficient of Utilization**



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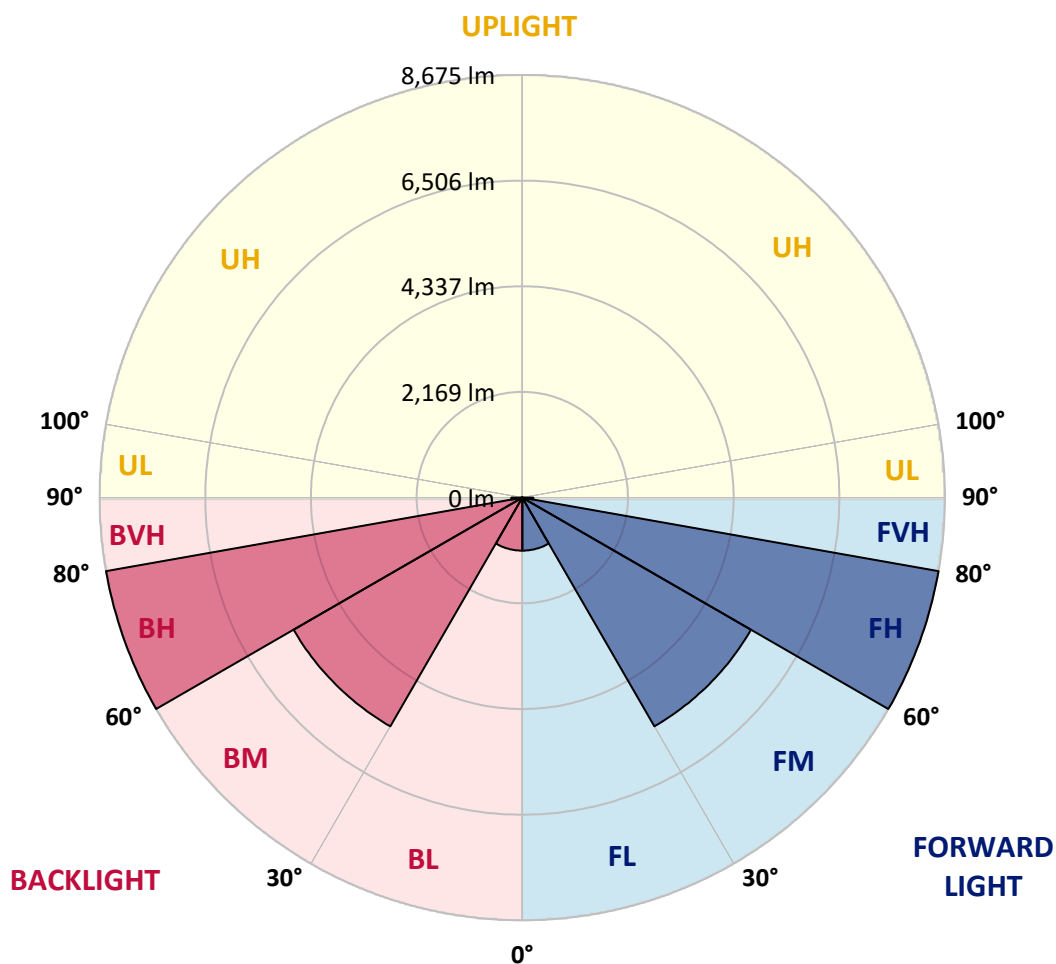
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.7	3.5			
FM (30°-60°)	5419.1	17.6			
FH (60°-80°)	8675.0	28.1			G4/12000
FVH (80°-90°)	226.8	0.7			G3/500
BL (0°-30°)	1087.7	3.5	B3/2500		
BM (30°-60°)	5419.1	17.6	B4/8500		
BH (60°-80°)	8675.0	28.1	B5		G4/12000
BVH (80°-90°)	226.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0	2609.0
2.5°	2602.5	2604.2	2604.2	2600.9	2599.3	2599.3	2597.6	2597.6	2602.5	2604.2	2605.8
5°	2579.7	2579.7	2579.7	2578.1	2574.9	2574.9	2571.6	2571.6	2573.2	2578.1	2574.9
7.5°	2548.8	2552.1	2552.1	2545.6	2540.7	2540.7	2539.0	2540.7	2542.3	2547.2	2545.6
10°	2539.0	2540.7	2532.5	2521.1	2513.0	2508.1	2509.8	2513.0	2521.1	2524.4	2526.0
12.5°	2545.6	2545.6	2530.9	2514.6	2500.0	2493.5	2491.8	2503.2	2517.9	2527.7	2530.9
15°	2553.7	2550.4	2532.5	2511.4	2496.7	2495.1	2493.5	2501.6	2522.8	2542.3	2543.9
17.5°	2558.6	2557.0	2534.2	2508.1	2500.0	2500.0	2498.4	2504.9	2527.7	2552.1	2553.7
20°	2574.9	2570.0	2543.9	2516.3	2509.8	2513.0	2508.1	2516.3	2540.7	2570.0	2576.5
22.5°	2607.4	2602.5	2576.5	2548.8	2545.6	2545.6	2543.9	2552.1	2578.1	2609.0	2613.9
25°	2646.5	2641.6	2617.2	2597.6	2600.9	2607.4	2604.2	2605.8	2626.9	2653.0	2661.1
27.5°	2698.6	2690.4	2669.3	2653.0	2662.7	2662.7	2662.7	2661.1	2674.1	2698.6	2706.7
30°	2762.0	2758.8	2736.0	2734.4	2742.5	2734.4	2734.4	2736.0	2737.6	2760.4	2768.5
32.5°	2845.0	2838.5	2827.1	2823.9	2846.7	2853.2	2830.4	2809.2	2820.6	2843.4	2848.3
35°	2981.8	2972.0	2955.7	2937.8	2955.7	2986.6	2937.8	2921.5	2950.8	2981.8	2985.0
37.5°	3167.3	3162.4	3136.4	3103.8	3102.2	3134.7	3084.3	3082.7	3138.0	3175.4	3180.3
40°	3400.0	3404.9	3372.4	3341.5	3325.2	3351.2	3312.2	3326.8	3380.5	3422.8	3419.6
42.5°	3727.2	3709.3	3658.8	3629.5	3611.6	3601.9	3592.1	3614.9	3675.1	3720.7	3756.5
45°	4109.7	4103.2	4039.7	4003.9	3964.8	3950.2	3946.9	3987.6	4060.9	4116.2	4121.1
47.5°	4542.6	4528.0	4487.3	4449.8	4435.2	4417.3	4401.0	4431.9	4505.2	4544.2	4555.6
50°	4988.6	4991.8	4991.8	4985.3	5000.0	5003.2	4959.3	4970.7	5011.4	5008.1	5004.9
52.5°	5498.0	5515.9	5600.6	5608.7	5678.7	5725.9	5646.1	5598.9	5584.3	5496.4	5502.9
55°	6097.0	6113.3	6240.2	6367.2	6556.0	6635.7	6468.1	6321.6	6217.4	6084.0	6090.5
57.5°	6844.0	6852.2	6972.6	7216.8	7516.2	7703.4	7408.8	7119.1	6907.5	6780.6	6730.1
60°	7648.1	7656.2	7832.0	8129.8	8595.3	8823.2	8458.6	7985.0	7718.1	7524.4	7537.4
62.5°	8613.2	8645.8	8803.7	9213.8	9778.6	10034.1	9550.7	8917.6	8556.3	8315.4	8325.2
65°	9646.8	9702.1	9874.6	10325.5	10846.3	11121.4	10528.9	9798.1	9348.9	9054.3	9085.2
67.5°	10317.3	10366.2	10615.2	11113.2	11762.6	11990.5	11225.5	10374.3	9812.8	9461.2	9396.1
70°	10146.4	10187.1	10519.2	11225.5	12187.4	12475.5	11391.5	10289.7	9628.9	9223.6	9197.5
72.5°	8956.7	8872.0	9357.0	10371.0	11702.4	12185.8	10869.1	9397.7	8566.0	8149.4	8100.5
75°	5935.8	6119.8	6835.9	8030.6	9900.7	10499.6	9277.3	7545.5	6499.0	6152.3	6098.6
77.5°	1984.0	2125.6	2762.0	4552.4	6749.6	7649.7	6759.4	4934.9	3491.2	2812.5	2825.5
80°	525.7	519.2	672.2	1251.6	2916.7	4430.3	3395.2	1671.5	914.7	662.4	628.3
82.5°	188.8	211.6	271.8	346.7	773.1	1376.9	971.7	468.7	343.4	253.9	245.8
85°	83.0	81.4	117.2	138.3	193.7	257.2	227.9	198.6	174.2	115.6	107.4
87.5°	17.9	17.9	27.7	21.2	34.2	34.2	42.3	50.5	52.1	34.2	27.7
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)