

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: P455903

Luminaire Tested: **GALN-SA7A-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24558 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

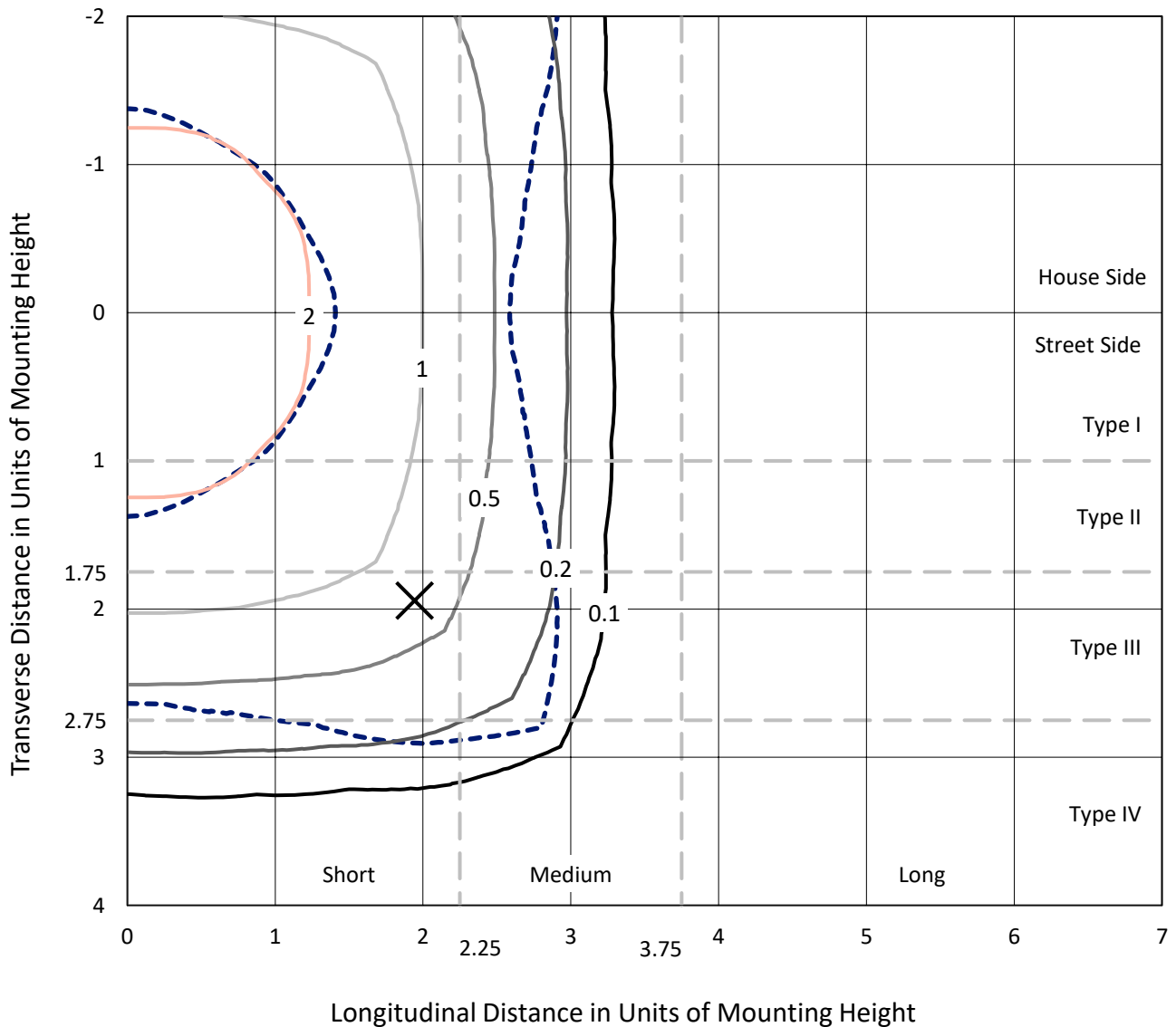
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

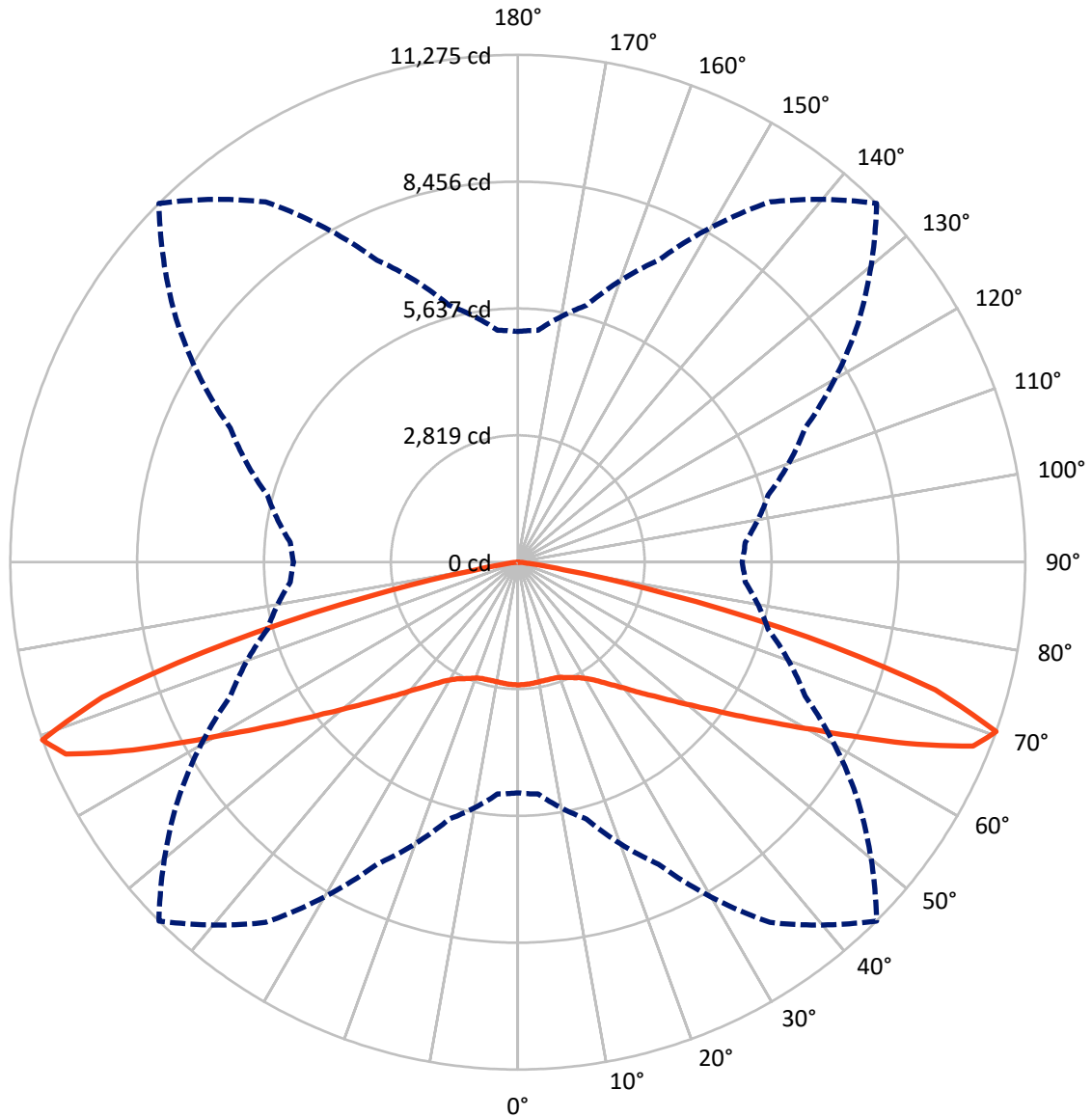
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	12279.0	0.0	12279.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12279.0	0.0	12279.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24558.0	0.0	24558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.6	1.1
10°-20°	758.9	3.1
20°-30°	1297.9	5.3
30°-40°	2060.0	8.4
40°-50°	3323.3	13.5
50°-60°	5407.1	22.0
60°-70°	7838.3	31.9
70°-80°	3476.8	14.2
80°-90°	137.1	0.6
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°	24558.0	100.0
0°-180°	24558.0	100.0

**Coefficient of Utilization**



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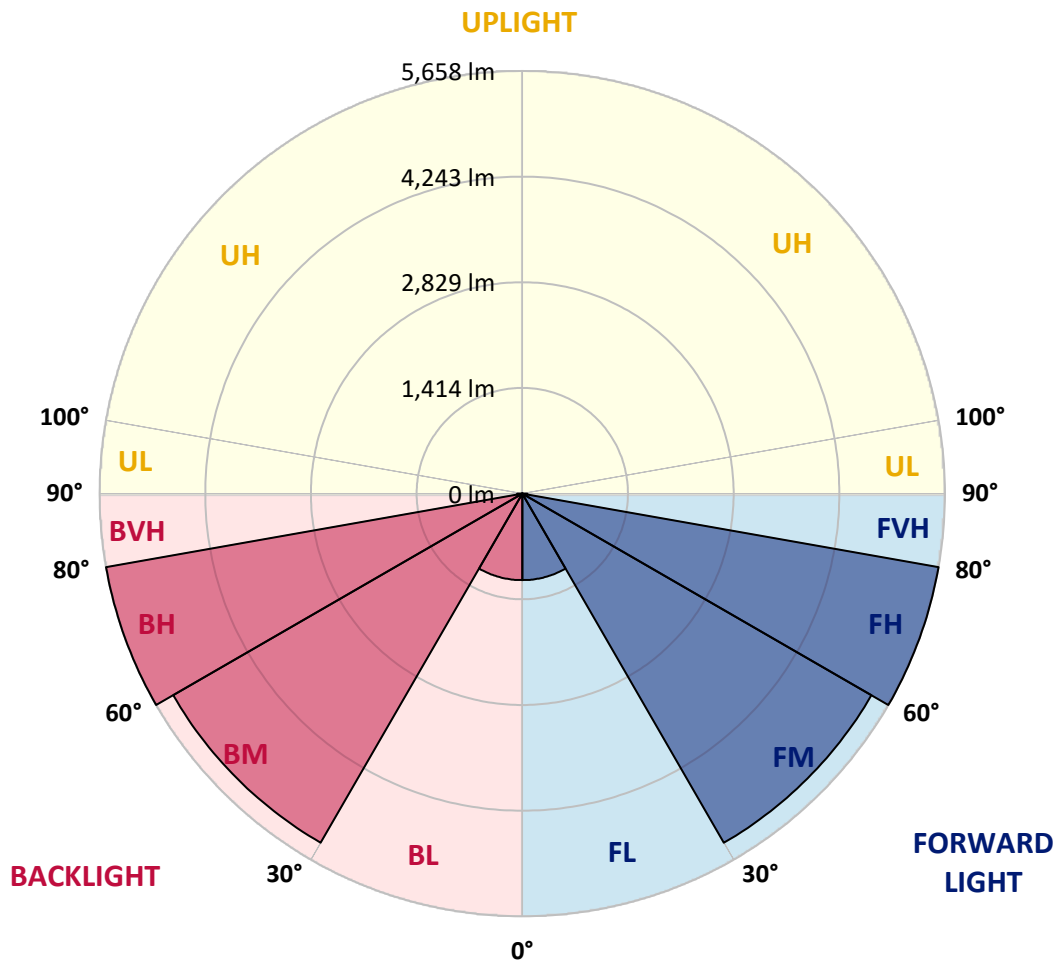
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.7	4.7			
FM (30°-60°)	5395.2	22.0			
FH (60°-80°)	5657.6	23.0			G3/7500
FVH (80°-90°)	68.6	0.3			G1/100
BL (0°-30°)	1157.7	4.7	B3/2500		
BM (30°-60°)	5395.2	22.0	B4/8500		
BH (60°-80°)	5657.6	23.0	B5		G3/7500
BVH (80°-90°)	68.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1
2.5°	2727.1	2729.6	2725.8	2723.2	2721.9	2721.9	2720.6	2721.9	2729.6	2730.9	2727.1
5°	2719.3	2721.9	2720.6	2718.0	2716.7	2716.7	2715.4	2714.1	2720.6	2723.2	2721.9
7.5°	2708.9	2710.2	2708.9	2707.6	2708.9	2707.6	2703.8	2701.2	2706.3	2706.3	2705.0
10°	2690.8	2693.4	2692.1	2693.4	2696.0	2696.0	2690.8	2685.6	2686.9	2684.3	2684.3
12.5°	2668.8	2672.7	2674.0	2679.2	2685.6	2693.4	2681.8	2670.1	2667.5	2666.2	2664.9
15°	2654.6	2658.5	2663.6	2668.8	2680.5	2697.3	2680.5	2662.3	2657.2	2652.0	2649.4
17.5°	2650.7	2655.9	2663.6	2671.4	2686.9	2703.8	2689.5	2671.4	2658.5	2650.7	2648.1
20°	2661.0	2664.9	2676.6	2690.8	2712.8	2729.6	2715.4	2696.0	2676.6	2664.9	2661.0
22.5°	2681.8	2688.2	2702.5	2728.3	2759.4	2784.0	2764.6	2732.2	2701.2	2685.6	2680.5
25°	2727.1	2732.2	2749.1	2784.0	2820.2	2843.5	2822.8	2785.3	2742.6	2721.9	2715.4
27.5°	2795.6	2803.4	2821.5	2862.9	2892.7	2905.7	2891.4	2865.5	2834.5	2812.5	2807.3
30°	2892.7	2901.8	2929.0	2973.0	2992.4	3000.1	2993.7	2976.8	2954.8	2931.5	2926.4
32.5°	3023.4	3028.6	3059.7	3101.1	3119.2	3121.8	3114.0	3106.3	3070.0	3031.2	3028.6
35°	3169.7	3178.8	3216.3	3265.5	3282.3	3283.6	3268.1	3256.4	3213.7	3182.6	3182.6
37.5°	3363.8	3367.7	3404.0	3459.6	3477.7	3472.6	3464.8	3454.4	3409.1	3369.0	3370.3
40°	3591.6	3599.4	3630.5	3695.2	3695.2	3688.7	3693.9	3686.1	3640.8	3602.0	3603.3
42.5°	3862.1	3866.0	3903.6	3972.1	3967.0	3954.0	3959.2	3948.9	3920.4	3876.4	3860.8
45°	4150.8	4166.3	4231.0	4297.0	4286.7	4245.2	4266.0	4263.4	4237.5	4171.5	4175.4
47.5°	4498.9	4524.8	4586.9	4665.9	4654.2	4589.5	4612.8	4628.3	4592.1	4519.6	4506.7
50°	4891.1	4907.9	4999.8	5073.6	5063.2	4994.6	5047.7	5050.3	4959.7	4857.4	4857.4
52.5°	5309.1	5326.0	5450.2	5565.4	5571.9	5472.2	5514.9	5512.3	5364.8	5230.2	5204.3
55°	5777.7	5785.4	5945.9	6115.5	6151.7	6054.6	6059.8	6008.1	5816.5	5659.9	5645.7
57.5°	6261.7	6290.2	6467.5	6687.6	6795.0	6735.4	6708.3	6569.8	6384.7	6204.8	6195.7
60°	6797.6	6798.9	7029.2	7289.4	7506.8	7547.0	7435.6	7250.6	7011.1	6773.0	6762.6
62.5°	7169.0	7224.7	7515.9	7955.9	8345.5	8570.7	8276.9	7888.6	7417.5	7033.1	6994.3
65°	7245.4	7282.9	7726.9	8472.4	9268.3	9753.7	9074.2	8248.5	7444.7	6932.2	6906.3
67.5°	6628.0	6668.1	7266.1	8410.2	9915.5	10910.8	9591.9	8075.0	6983.9	6349.7	6299.3
70°	5126.6	5171.9	5911.0	7403.3	9771.8	11274.5	9223.0	7043.5	5759.6	5074.9	4983.0
72.5°	2725.8	2892.7	3524.3	5081.3	7931.4	9707.1	7562.5	5139.6	3714.6	3036.4	2914.7
75°	995.3	1016.0	1368.1	2253.3	4614.1	6656.5	4791.4	2451.4	1409.5	1088.5	1032.8
77.5°	411.6	410.3	450.4	680.8	1676.1	3409.1	1870.2	719.6	449.1	415.5	410.3
80°	243.3	243.3	267.9	283.4	441.3	1029.0	493.1	321.0	269.2	245.9	249.8
82.5°	108.7	115.2	169.6	178.6	213.6	282.2	238.1	204.5	176.0	121.7	110.0
85°	59.5	51.8	89.3	93.2	102.2	104.8	112.6	111.3	102.2	59.5	60.8
87.5°	11.6	14.2	25.9	19.4	22.0	19.4	25.9	36.2	37.5	20.7	16.8
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)