

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: P651985

Luminaire Tested: **GALN-SA7A-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651985  
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-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 28095.3 lumens  
Efficiency: N/A  
Efficacy: 130.7 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

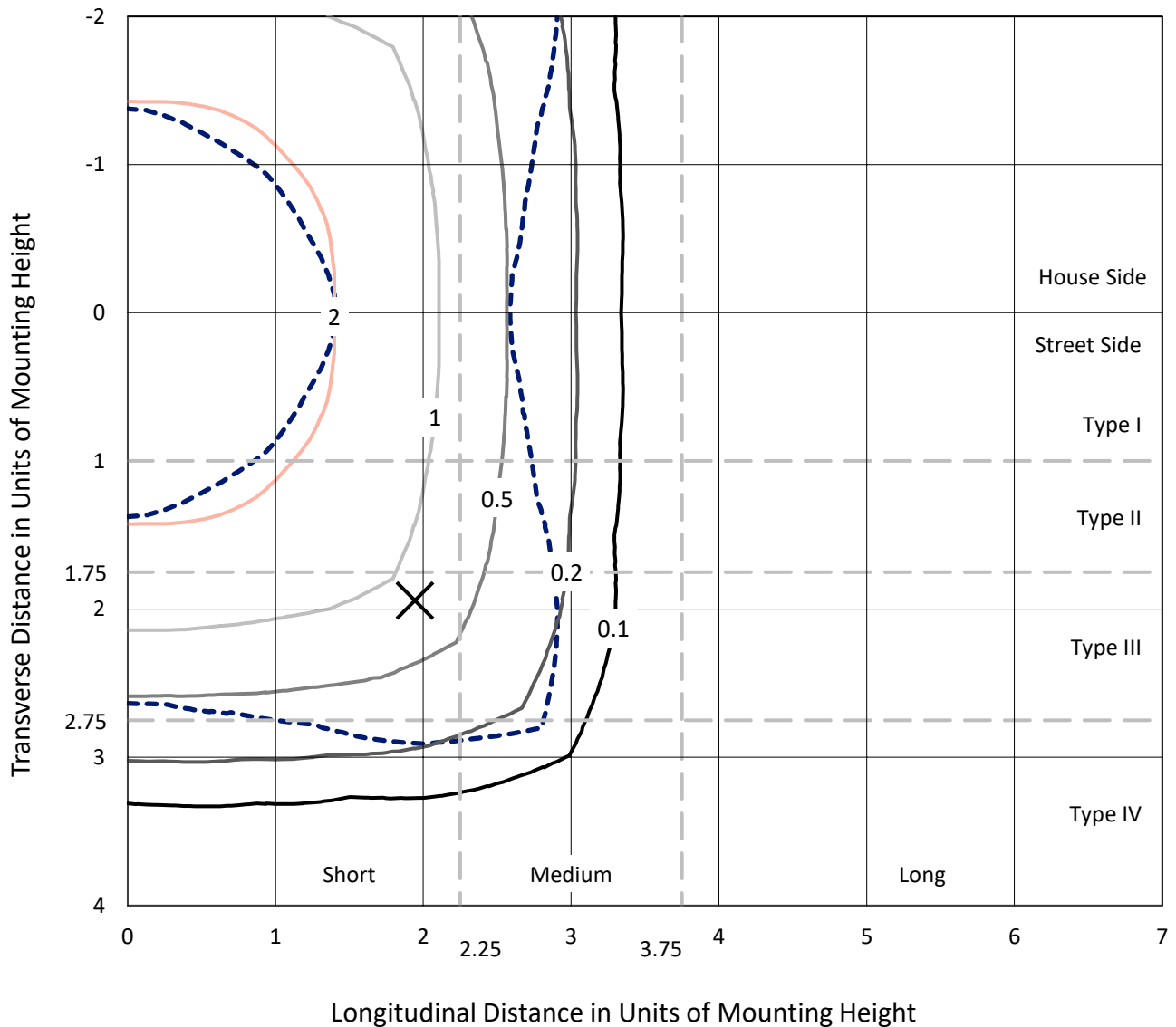
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

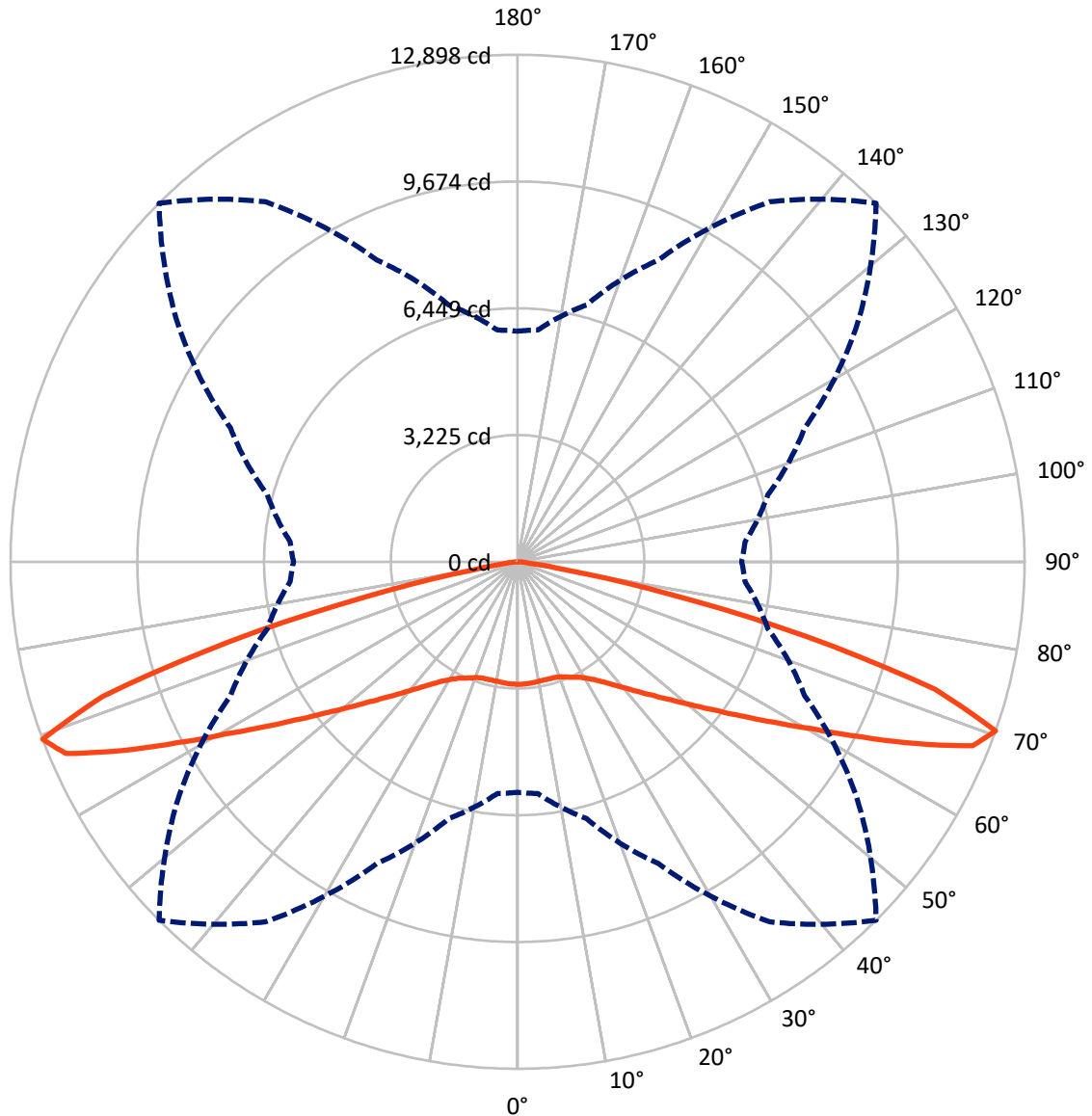
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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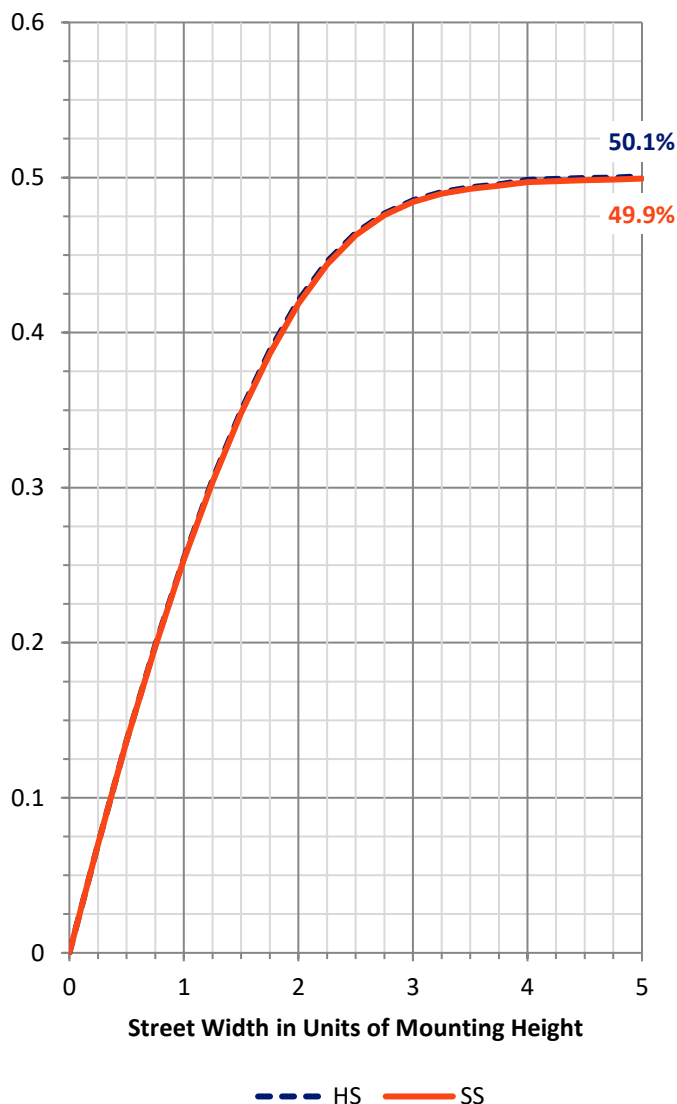
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14047.6	0.0	14047.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14047.6	0.0	14047.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28095.3	0.0	28095.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.8	1.1
10°-20°	868.2	3.1
20°-30°	1484.8	5.3
30°-40°	2356.7	8.4
40°-50°	3802.0	13.5
50°-60°	6185.9	22.0
60°-70°	8967.4	31.9
70°-80°	3977.6	14.2
80°-90°	156.9	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°	28095.3	100.0
0°-180°	28095.3	100.0

**Coefficient of Utilization**



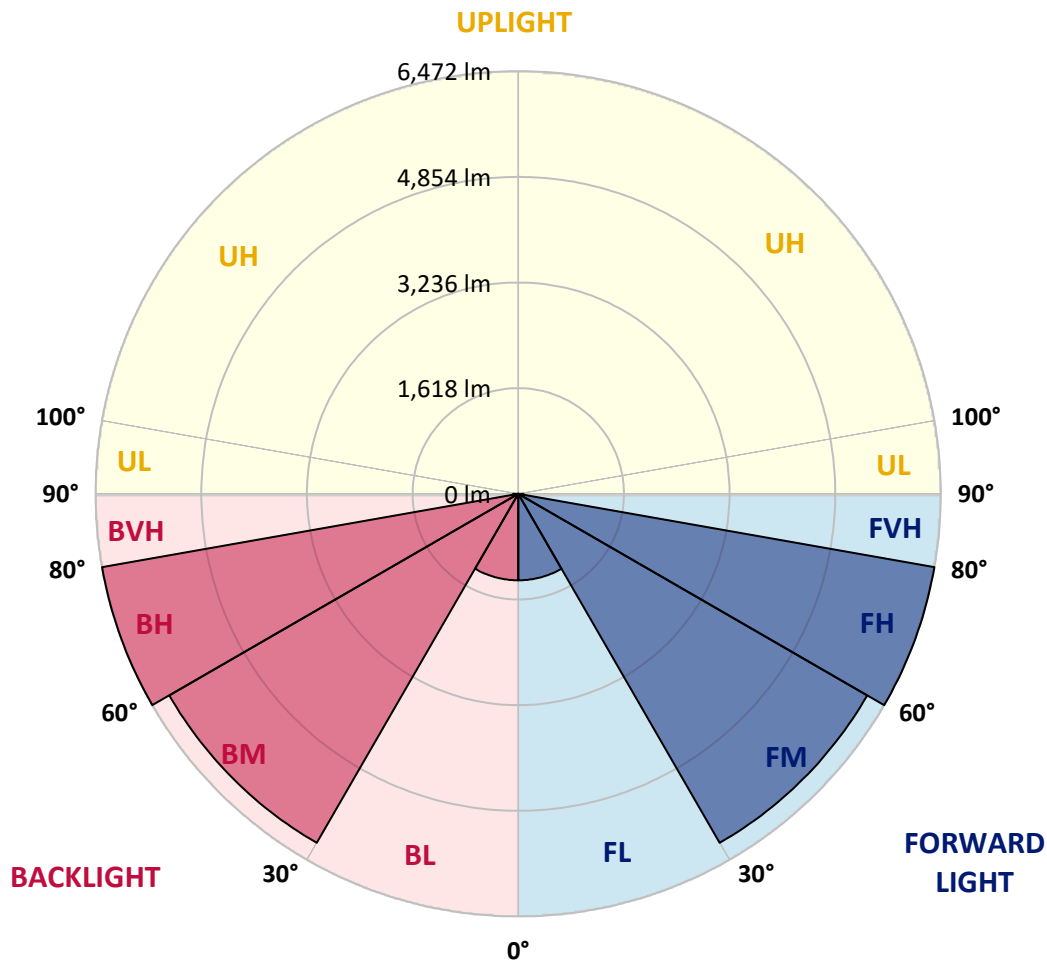
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.4	4.7			
FM (30°-60°)	6172.3	22.0			
FH (60°-80°)	6472.5	23.0			G3/7500
FVH (80°-90°)	78.4	0.3			G1/100
BL (0°-30°)	1324.4	4.7	B3/2500		
BM (30°-60°)	6172.3	22.0	B4/8500		
BH (60°-80°)	6472.5	23.0	B5		G3/7500
BVH (80°-90°)	78.4	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°	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9	3119.9
2.5°	3119.9	3122.8	3118.3	3115.4	3113.9	3113.9	3112.5	3113.9	3122.8	3124.3	3119.9
5°	3110.9	3113.9	3112.5	3109.5	3108.0	3108.0	3106.5	3105.1	3112.5	3115.4	3113.9
7.5°	3099.1	3100.6	3099.1	3097.7	3099.1	3097.7	3093.2	3090.3	3096.1	3096.1	3094.7
10°	3078.4	3081.3	3079.9	3081.3	3084.3	3084.3	3078.4	3072.4	3073.9	3071.0	3071.0
12.5°	3053.3	3057.6	3059.1	3065.0	3072.4	3081.3	3068.1	3054.7	3051.7	3050.2	3048.8
15°	3036.9	3041.4	3047.3	3053.3	3066.5	3085.8	3066.5	3045.8	3039.9	3034.0	3031.0
17.5°	3032.5	3038.4	3047.3	3056.2	3073.9	3093.2	3076.9	3056.2	3041.4	3032.5	3029.5
20°	3044.3	3048.8	3062.1	3078.4	3103.5	3122.8	3106.5	3084.3	3062.1	3048.8	3044.3
22.5°	3068.1	3075.5	3091.7	3121.4	3156.9	3185.0	3162.7	3125.7	3090.3	3072.4	3066.5
25°	3119.9	3125.7	3145.0	3185.0	3226.5	3253.1	3229.4	3186.5	3137.6	3113.9	3106.5
27.5°	3198.3	3207.2	3227.9	3275.4	3309.4	3324.2	3307.9	3278.3	3242.7	3217.6	3211.7
30°	3309.4	3319.8	3350.9	3401.2	3423.4	3432.3	3424.9	3405.6	3380.5	3353.8	3347.9
32.5°	3458.9	3464.8	3500.4	3547.8	3568.5	3571.5	3562.6	3553.7	3512.3	3467.8	3464.8
35°	3626.2	3636.7	3679.5	3735.8	3755.1	3756.6	3738.7	3725.5	3676.6	3641.0	3641.0
37.5°	3848.3	3852.8	3894.3	3957.9	3978.7	3972.7	3963.9	3952.0	3900.2	3854.3	3855.7
40°	4109.0	4117.9	4153.4	4227.5	4227.5	4220.1	4225.9	4217.0	4165.2	4120.8	4122.3
42.5°	4418.4	4422.9	4465.8	4544.3	4538.4	4523.6	4529.5	4517.6	4485.1	4434.7	4416.9
45°	4748.6	4766.4	4840.5	4916.0	4904.1	4856.7	4880.4	4877.5	4847.9	4772.3	4776.8
47.5°	5146.9	5176.5	5247.6	5337.9	5324.6	5250.6	5277.3	5295.0	5253.6	5170.6	5155.8
50°	5595.6	5614.9	5720.0	5804.3	5792.6	5714.0	5774.7	5777.8	5674.1	5557.1	5557.1
52.5°	6073.9	6093.1	6235.3	6367.0	6374.4	6260.4	6309.3	6306.3	6137.5	5983.5	5953.9
55°	6609.8	6618.8	6802.3	6996.4	7037.8	6926.7	6932.7	6873.4	6654.3	6475.1	6458.9
57.5°	7163.6	7196.3	7399.1	7650.8	7773.7	7705.6	7674.5	7516.1	7304.3	7098.5	7088.1
60°	7776.6	7778.2	8041.7	8339.4	8588.1	8634.0	8506.6	8295.0	8021.0	7748.6	7736.7
62.5°	8201.6	8265.3	8598.5	9101.9	9547.6	9805.2	9469.2	9024.9	8485.9	8046.2	8001.8
65°	8289.0	8332.0	8839.8	9692.7	10603.3	11158.6	10381.2	9436.5	8517.1	7930.6	7901.0
67.5°	7582.7	7628.6	8312.7	9621.6	11343.7	12482.4	10973.5	9238.1	7989.9	7264.3	7206.6
70°	5865.0	5916.9	6762.4	8469.6	11179.3	12898.4	10551.5	8058.0	6589.2	5805.8	5700.7
72.5°	3118.3	3309.4	4032.0	5813.2	9073.8	11105.3	8651.8	5879.9	4249.7	3473.8	3334.6
75°	1138.6	1162.3	1565.1	2577.9	5278.7	7615.3	5481.6	2804.5	1612.4	1245.3	1181.6
77.5°	470.9	469.4	515.3	778.9	1917.5	3900.2	2139.6	823.3	513.8	475.3	469.4
80°	278.4	278.4	306.5	324.3	504.9	1177.1	564.1	367.2	308.0	281.3	285.8
82.5°	124.4	131.8	193.9	204.4	244.3	322.8	272.5	234.0	201.3	139.2	125.9
85°	68.1	59.2	102.2	106.6	117.0	119.9	128.8	127.3	117.0	68.1	69.6
87.5°	13.3	16.3	29.6	22.2	25.1	22.2	29.6	41.5	43.0	23.7	19.3
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)