

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: P651983

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16076.5 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

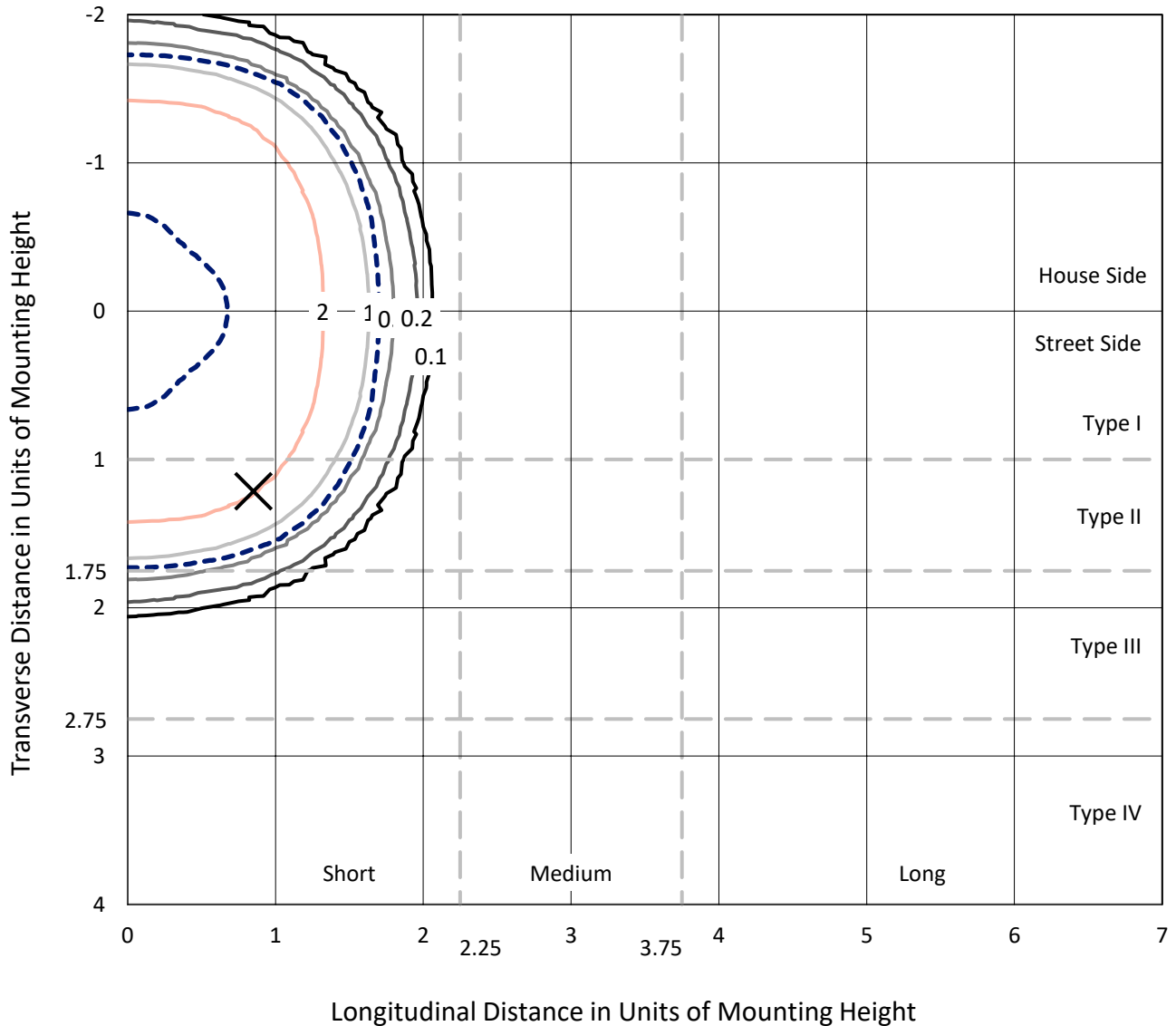
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

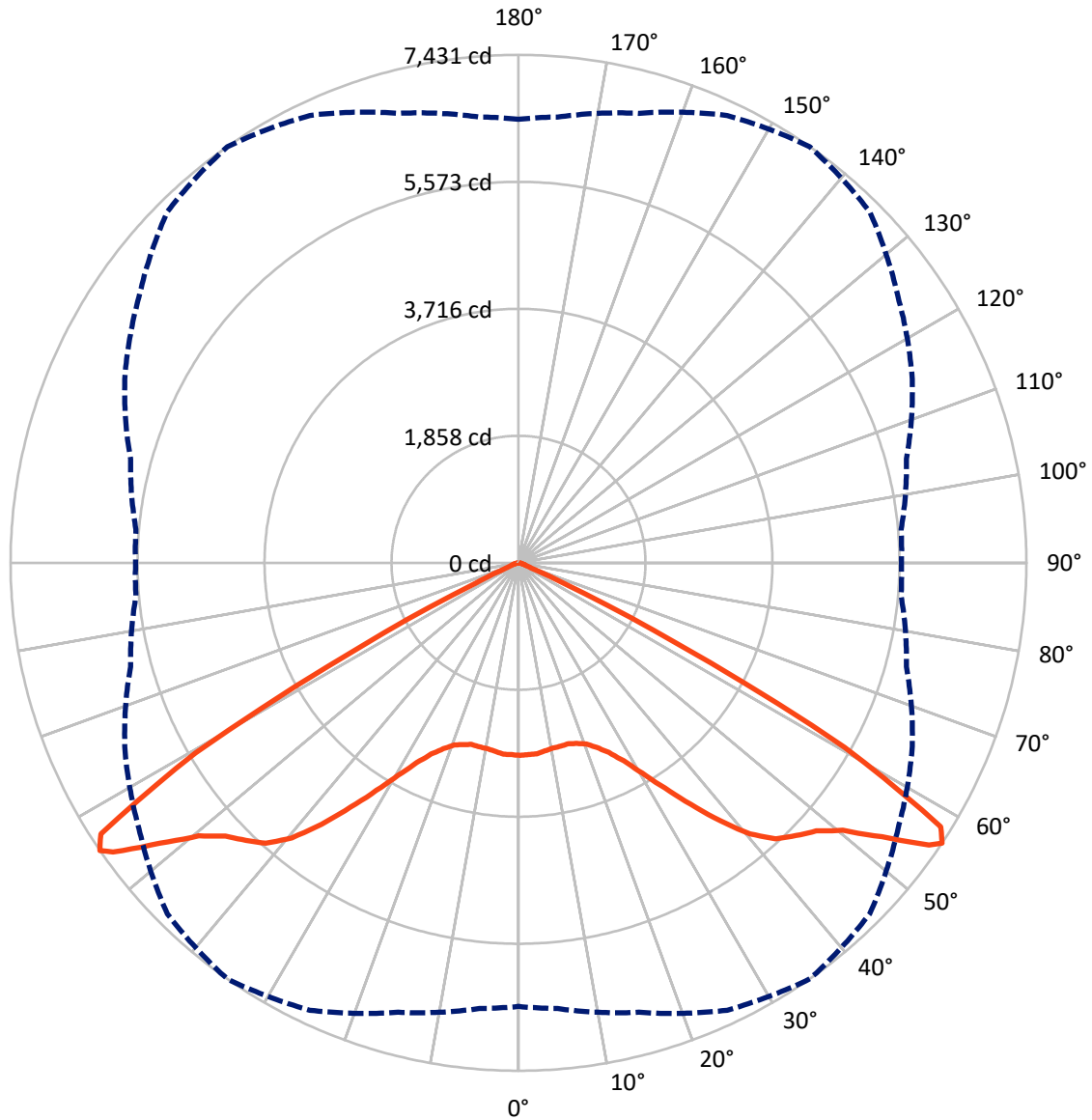
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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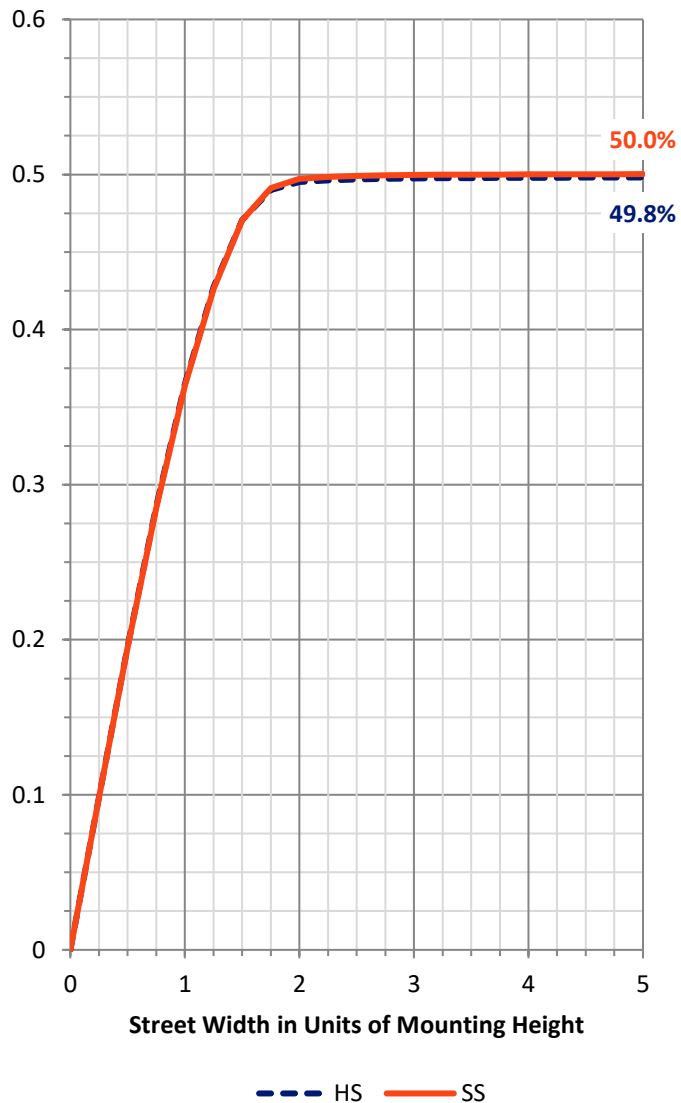
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8038.3	0.0	8038.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8038.3	0.0	8038.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16076.5	0.0	16076.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	1.6
10°-20°	772.9	4.8
20°-30°	1399.7	8.7
30°-40°	2595.5	16.1
40°-50°	4260.4	26.5
50°-60°	5488.7	34.1
60°-70°	1209.6	7.5
70°-80°	70.2	0.4
80°-90°	14.8	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°	16076.5	100.0
0°-180°	16076.5	100.0

**Coefficient of Utilization**

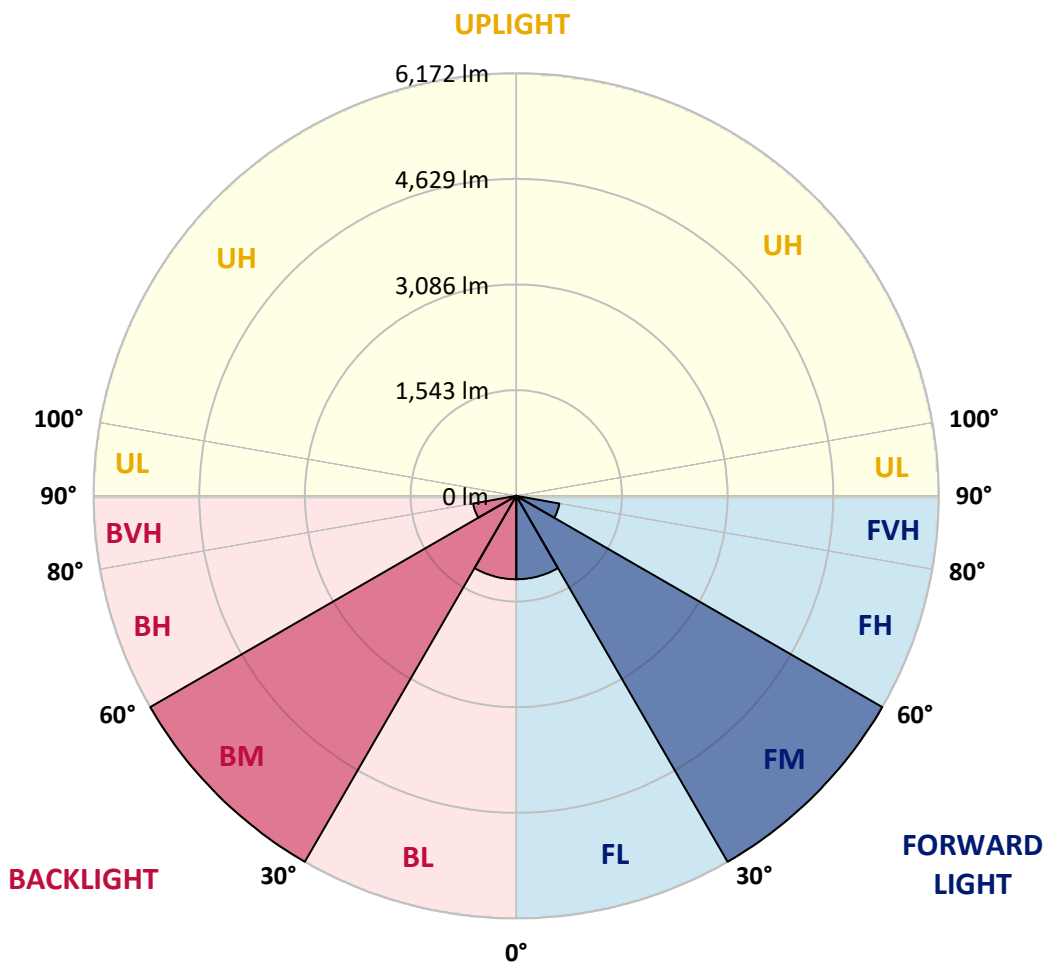


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.7	7.6			
FM (30°-60°)	6172.3	38.4			
FH (60°-80°)	639.9	4.0			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1218.7	7.6	B3/2500		
BM (30°-60°)	6172.3	38.4	B4/8500		
BH (60°-80°)	639.9	4.0	B2/1000		G0/660
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2822.8	2822.8	2825.7	2828.6	2808.2	2799.5	2802.4	2796.6	2793.6	2802.4	2802.4
5°	2814.1	2814.1	2805.3	2808.2	2808.2	2782.0	2782.0	2787.8	2787.8	2770.3	2764.5
7.5°	2790.8	2784.9	2773.3	2787.8	2779.1	2779.1	2758.7	2744.1	2738.3	2750.0	2738.3
10°	2741.2	2744.1	2755.8	2761.6	2755.8	2773.3	2738.3	2717.9	2697.5	2688.8	2688.8
12.5°	2717.9	2735.4	2717.9	2732.5	2752.8	2738.3	2717.9	2703.3	2674.2	2662.6	2662.6
15°	2715.0	2726.7	2732.5	2752.8	2744.1	2750.0	2709.2	2691.7	2648.0	2627.6	2618.9
17.5°	2712.1	2726.7	2735.4	2773.3	2779.1	2782.0	2750.0	2697.5	2659.7	2639.2	2618.9
20°	2744.1	2750.0	2767.4	2805.3	2828.6	2869.4	2811.1	2755.8	2674.2	2650.9	2642.2
22.5°	2784.9	2814.1	2831.6	2872.3	2933.5	2968.5	2892.7	2822.8	2738.3	2709.2	2674.2
25°	2916.0	2910.2	2939.3	3023.8	3073.4	3099.5	3038.4	2936.4	2825.7	2790.8	2796.6
27.5°	3079.2	3085.0	3111.2	3204.4	3277.2	3318.0	3245.2	3111.2	3003.4	2945.1	2939.3
30°	3291.8	3286.0	3315.1	3440.4	3571.5	3632.6	3504.4	3347.2	3242.3	3166.5	3184.0
32.5°	3516.1	3519.0	3600.6	3714.2	3926.9	4046.3	3839.4	3647.2	3489.9	3437.4	3411.3
35°	3848.2	3862.8	3926.9	4101.6	4337.6	4491.9	4264.8	4034.6	3854.1	3757.9	3769.5
37.5°	4258.9	4244.4	4352.2	4541.5	4789.2	4902.7	4710.4	4448.3	4264.8	4200.7	4241.5
40°	4695.9	4710.4	4765.8	4937.7	5214.5	5290.1	5004.7	4862.0	4701.7	4669.7	4719.2
42.5°	5132.9	5124.1	5164.9	5319.3	5520.3	5467.8	5298.9	5214.5	5100.8	5036.7	5103.7
45°	5453.3	5438.7	5514.5	5619.3	5692.1	5593.2	5517.4	5488.3	5430.0	5360.1	5421.3
47.5°	5765.0	5753.4	5826.2	5855.3	5861.1	5730.1	5744.6	5797.0	5651.4	5505.8	5575.7
50°	6030.1	6009.7	6100.0	6164.1	6149.6	5939.8	5992.2	5939.8	5712.6	5540.7	5514.5
52.5°	6472.9	6481.6	6577.8	6694.3	6659.3	6484.5	6408.8	6169.9	5878.6	5724.2	5633.9
55°	6752.6	6708.8	6874.9	7244.9	7285.7	7105.0	6770.0	6417.5	5980.6	5791.2	5767.9
56°	6490.3	6545.8	6807.9	7221.6	7431.3	7265.2	6778.8	6356.4	5875.7	5619.3	5601.9
57.5°	5823.3	5794.2	6149.6	6714.7	7285.7	7215.7	6539.9	5919.4	5360.1	5071.7	5036.7
60°	3623.9	3708.4	4020.1	4719.2	5482.4	5517.4	4847.4	4314.2	3661.7	3405.4	3466.6
62.5°	1418.7	1345.9	1541.0	2062.5	2586.8	2703.3	2449.9	2036.2	1672.1	1418.7	1401.2
65°	329.2	320.4	361.2	498.1	696.3	806.9	766.2	550.6	404.9	384.5	355.4
67.5°	186.4	186.4	177.7	177.7	195.2	206.8	198.1	195.2	203.9	212.7	209.7
70°	131.1	128.2	122.4	125.2	119.4	119.4	128.2	142.7	154.4	154.4	157.3
72.5°	78.6	78.6	78.6	87.4	87.4	87.4	96.1	107.8	110.7	107.8	104.9
75°	35.0	35.0	40.8	49.5	55.3	58.3	67.0	72.8	78.6	72.8	67.0
77.5°	8.7	8.7	14.5	20.4	26.2	32.0	43.7	52.4	55.3	52.4	43.7
80°	2.9	2.9	5.8	14.5	26.2	32.0	43.7	46.6	49.5	43.7	35.0
82.5°	2.9	2.9	5.8	14.5	20.4	26.2	35.0	40.8	43.7	37.8	35.0
85°	0.0	2.9	5.8	11.7	17.5	23.3	23.3	17.5	14.5	8.7	11.7
87.5°	0.0	0.0	2.9	2.9	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)