

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: P650828

Luminaire Tested: **GALN-SA4C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650828  
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-SA4C-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA 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: 14037.1 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

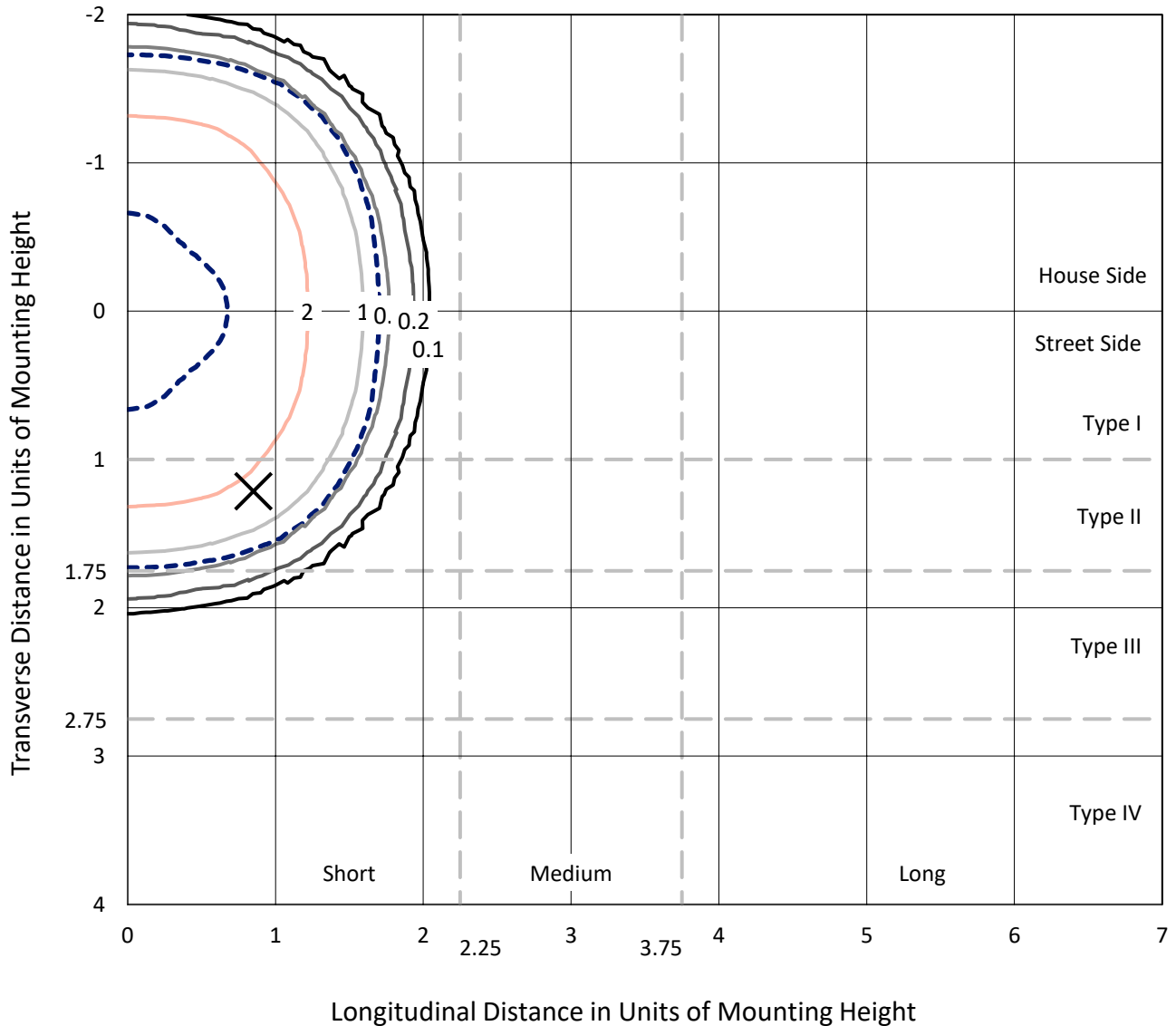
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

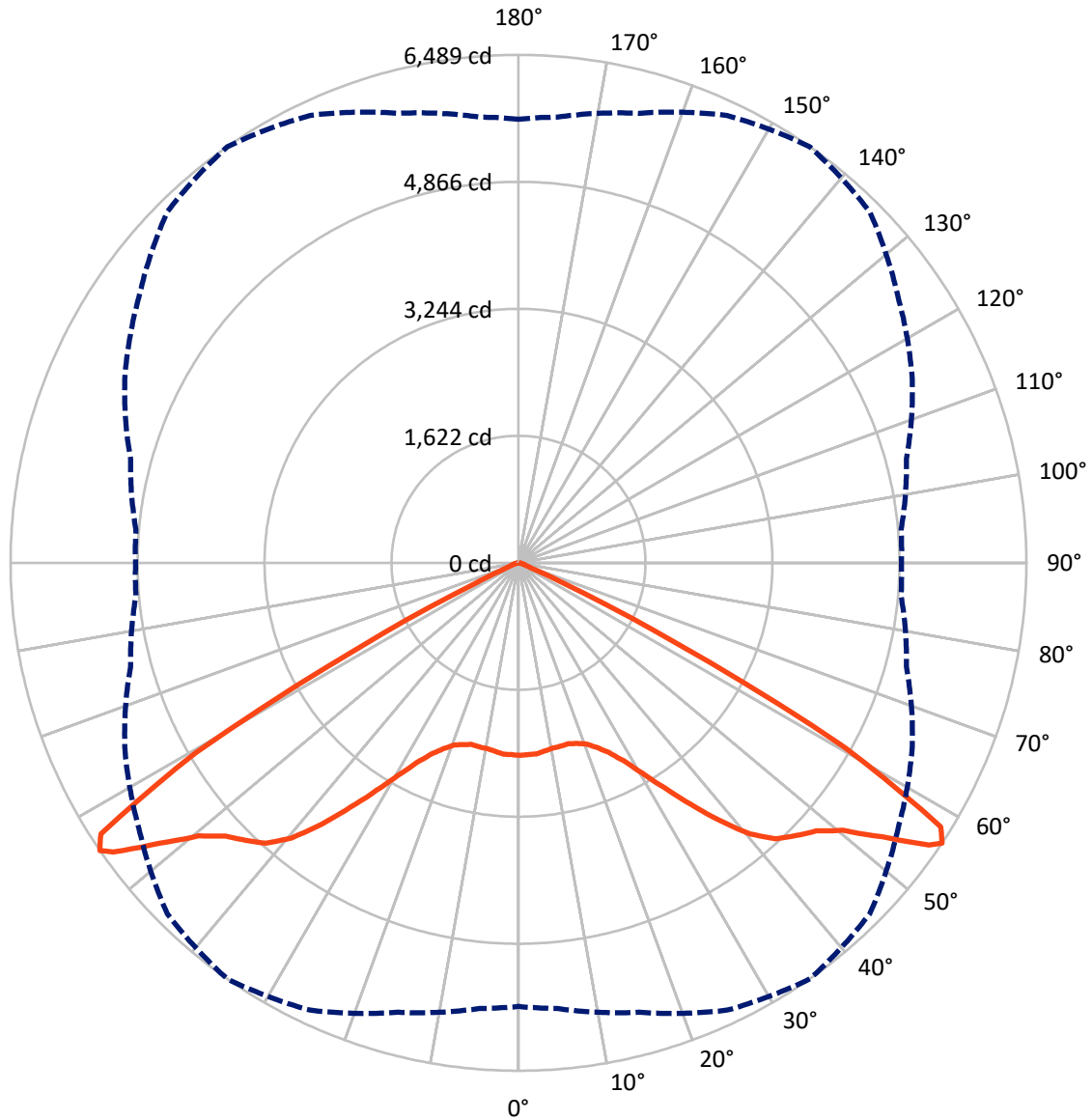
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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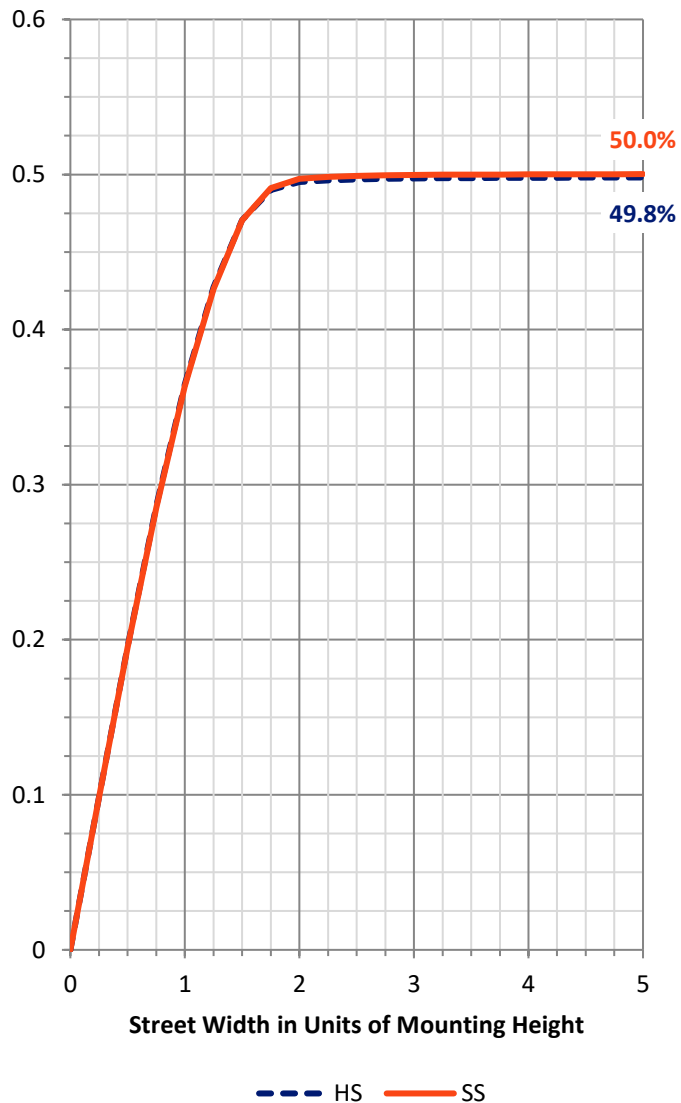
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7018.6	0.0	7018.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7018.6	0.0	7018.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14037.1	0.0	14037.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.2	1.6
10°-20°	674.9	4.8
20°-30°	1222.1	8.7
30°-40°	2266.3	16.1
40°-50°	3719.9	26.5
50°-60°	4792.4	34.1
60°-70°	1056.2	7.5
70°-80°	61.3	0.4
80°-90°	12.9	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°	14037.1	100.0
0°-180°	14037.1	100.0

**Coefficient of Utilization**



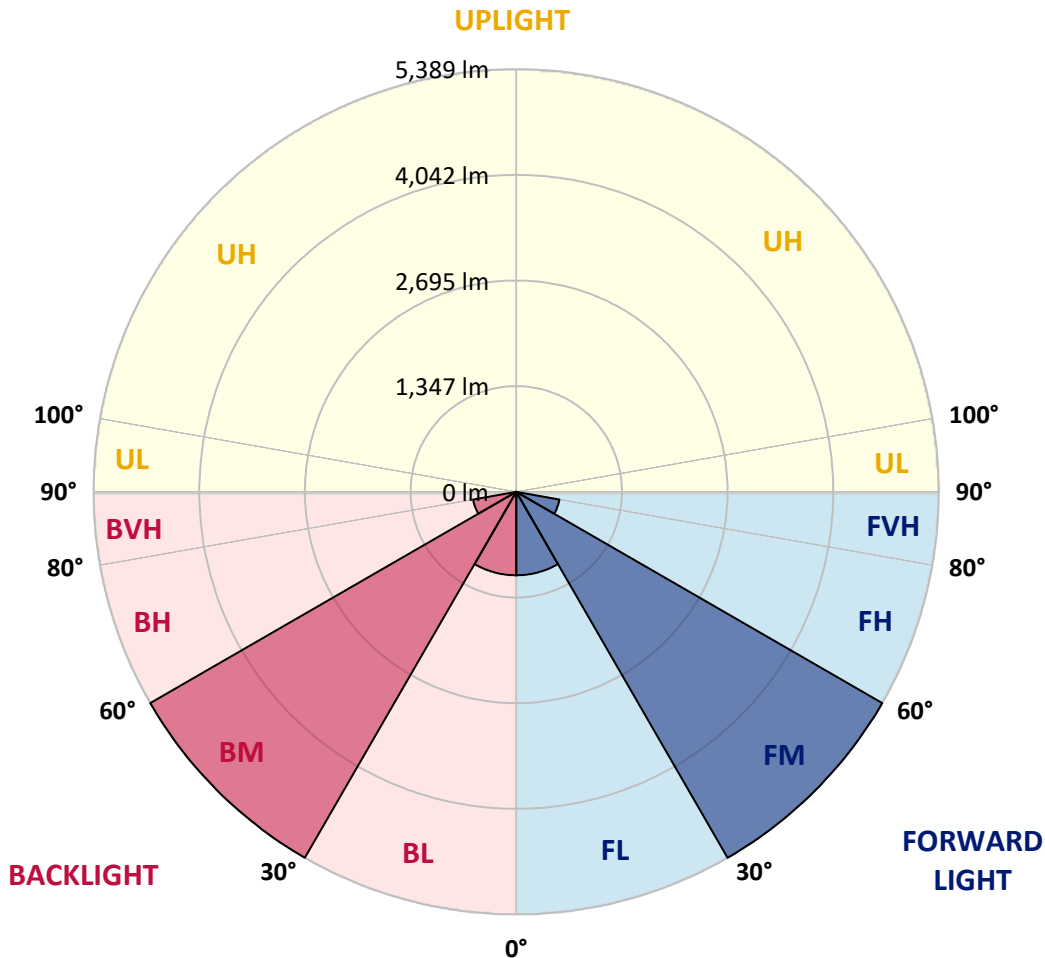
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.1	7.6			
FM (30°-60°)	5389.3	38.4			
FH (60°-80°)	558.7	4.0			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1064.1	7.6	B3/2500		
BM (30°-60°)	5389.3	38.4	B4/8500		
BH (60°-80°)	558.7	4.0	B2/1000		G0/660
BVH (80°-90°)	6.4	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°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2464.7	2464.7	2467.2	2469.8	2451.9	2444.4	2446.9	2441.8	2439.2	2446.9	2446.9
5°	2457.1	2457.1	2449.4	2451.9	2451.9	2429.1	2429.1	2434.2	2434.2	2418.9	2413.8
7.5°	2436.7	2431.7	2421.5	2434.2	2426.5	2426.5	2408.7	2396.0	2391.0	2401.1	2391.0
10°	2393.5	2396.0	2406.2	2411.3	2406.2	2421.5	2391.0	2373.1	2355.3	2347.7	2347.7
12.5°	2373.1	2388.4	2373.1	2385.8	2403.7	2391.0	2373.1	2360.4	2335.0	2324.8	2324.8
15°	2370.6	2380.8	2385.8	2403.7	2396.0	2401.1	2365.5	2350.3	2312.1	2294.2	2286.7
17.5°	2368.0	2380.8	2388.4	2421.5	2426.5	2429.1	2401.1	2355.3	2322.3	2304.4	2286.7
20°	2396.0	2401.1	2416.4	2449.4	2469.8	2505.4	2454.5	2406.2	2335.0	2314.6	2307.0
22.5°	2431.7	2457.1	2472.3	2507.9	2561.3	2591.9	2525.8	2464.7	2391.0	2365.5	2335.0
25°	2546.1	2541.0	2566.4	2640.2	2683.5	2706.3	2652.9	2563.9	2467.2	2436.7	2441.8
27.5°	2688.5	2693.6	2716.5	2797.9	2861.5	2897.1	2833.5	2716.5	2622.4	2571.5	2566.4
30°	2874.2	2869.2	2894.6	3003.9	3118.3	3171.8	3059.9	2922.6	2831.0	2764.9	2780.1
32.5°	3070.1	3072.6	3143.8	3243.0	3428.7	3533.0	3352.4	3184.5	3047.2	3001.4	2978.5
35°	3360.0	3372.7	3428.7	3581.3	3787.4	3922.2	3723.8	3522.8	3365.1	3281.2	3291.3
37.5°	3718.6	3706.0	3800.1	3965.4	4181.6	4280.8	4112.9	3884.0	3723.8	3667.8	3703.4
40°	4100.2	4112.9	4161.3	4311.3	4552.9	4619.1	4369.8	4245.2	4105.3	4077.3	4120.6
42.5°	4481.7	4474.1	4509.7	4644.5	4820.0	4774.3	4626.7	4552.9	4453.8	4397.8	4456.3
45°	4761.5	4748.8	4814.9	4906.5	4970.1	4883.6	4817.5	4792.0	4741.1	4680.1	4733.6
47.5°	5033.6	5023.5	5087.1	5112.5	5117.6	5003.2	5015.9	5061.6	4934.5	4807.3	4868.4
50°	5265.2	5247.3	5326.2	5382.1	5369.4	5186.3	5232.0	5186.3	4987.9	4837.9	4814.9
52.5°	5651.8	5659.4	5743.4	5845.0	5814.5	5661.9	5595.8	5387.2	5132.9	4998.1	4919.2
55°	5895.9	5857.8	6002.8	6325.8	6361.4	6203.7	5911.2	5603.4	5221.9	5056.6	5036.2
56°	5667.0	5715.4	5944.3	6305.5	6488.6	6343.6	5918.8	5550.0	5130.4	4906.5	4891.3
57.5°	5084.5	5059.1	5369.4	5862.9	6361.4	6300.4	5710.2	5168.4	4680.1	4428.3	4397.8
60°	3164.2	3237.9	3510.1	4120.6	4787.0	4817.5	4232.4	3767.0	3197.2	2973.4	3026.8
62.5°	1238.7	1175.1	1345.5	1800.8	2258.7	2360.4	2139.1	1778.0	1460.0	1238.7	1223.5
65°	287.5	279.8	315.4	435.0	607.9	704.6	668.9	480.7	353.6	335.7	310.3
67.5°	162.8	162.8	155.2	155.2	170.4	180.6	173.0	170.4	178.0	185.7	183.2
70°	114.5	111.9	106.8	109.4	104.3	104.3	111.9	124.6	134.8	134.8	137.3
72.5°	68.7	68.7	68.7	76.3	76.3	76.3	83.9	94.1	96.6	94.1	91.6
75°	30.5	30.5	35.6	43.2	48.4	50.9	58.5	63.6	68.7	63.6	58.5
77.5°	7.7	7.7	12.7	17.8	22.9	28.0	38.2	45.8	48.4	45.8	38.2
80°	2.5	2.5	5.0	12.7	22.9	28.0	38.2	40.7	43.2	38.2	30.5
82.5°	2.5	2.5	5.0	12.7	17.8	22.9	30.5	35.6	38.2	33.1	30.5
85°	0.0	2.5	5.0	10.2	15.2	20.4	20.4	15.2	12.7	7.7	10.2
87.5°	0.0	0.0	2.5	2.5	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)