

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: P651878

Luminaire Tested: **GALN-SA5A-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20100.7 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

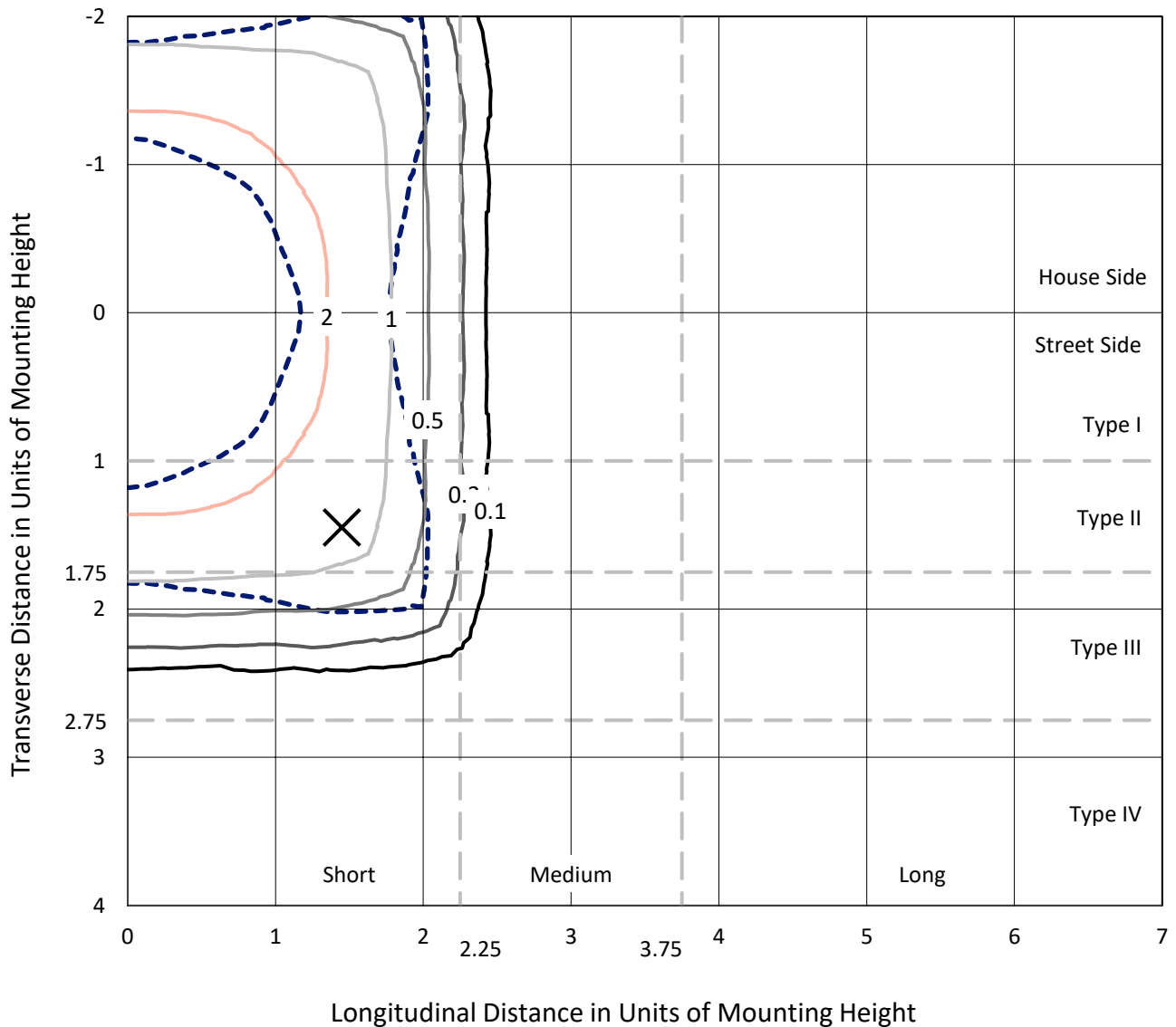
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

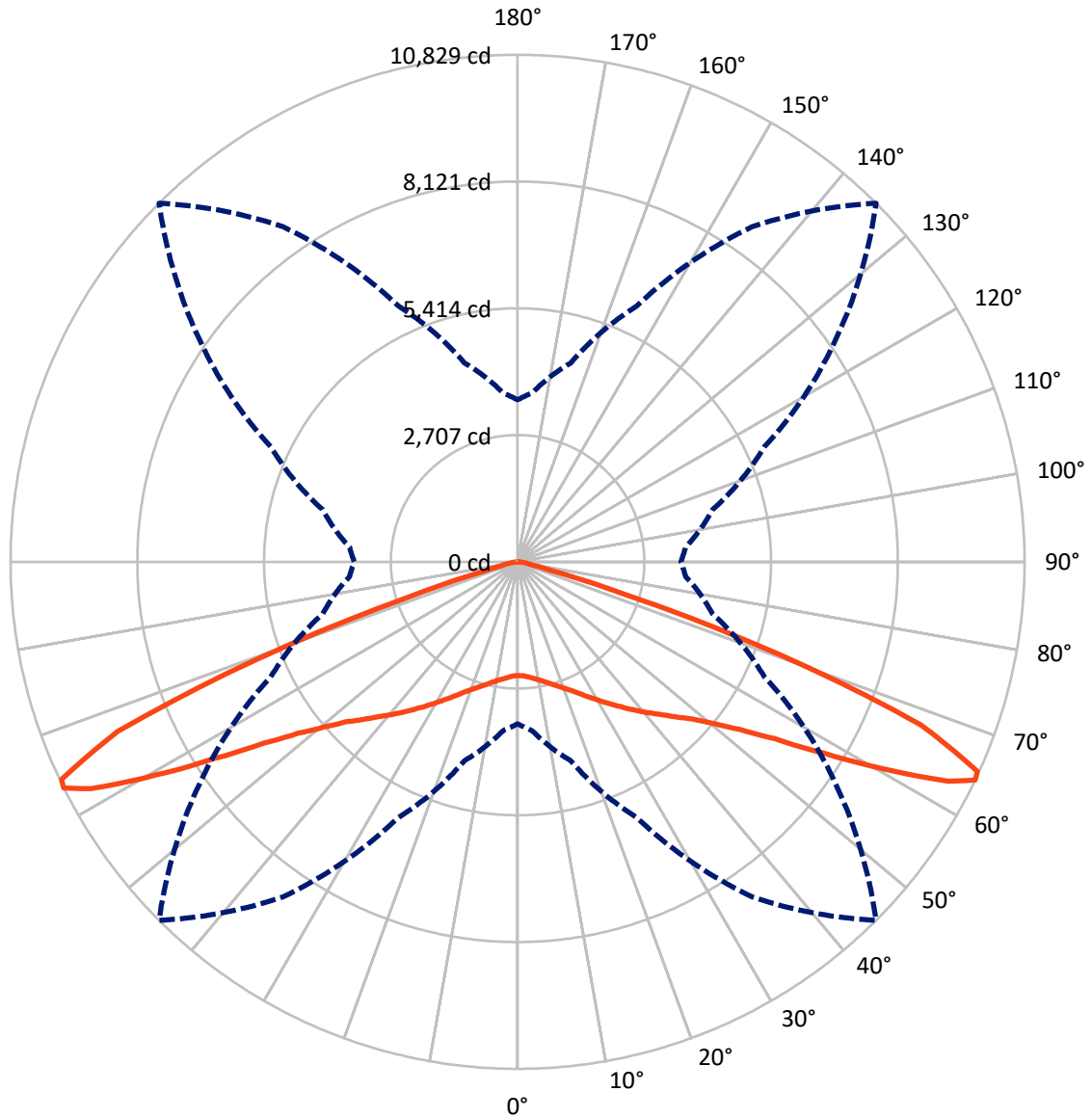
✕ Max cd  
 - - - 1/2 Max cd



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 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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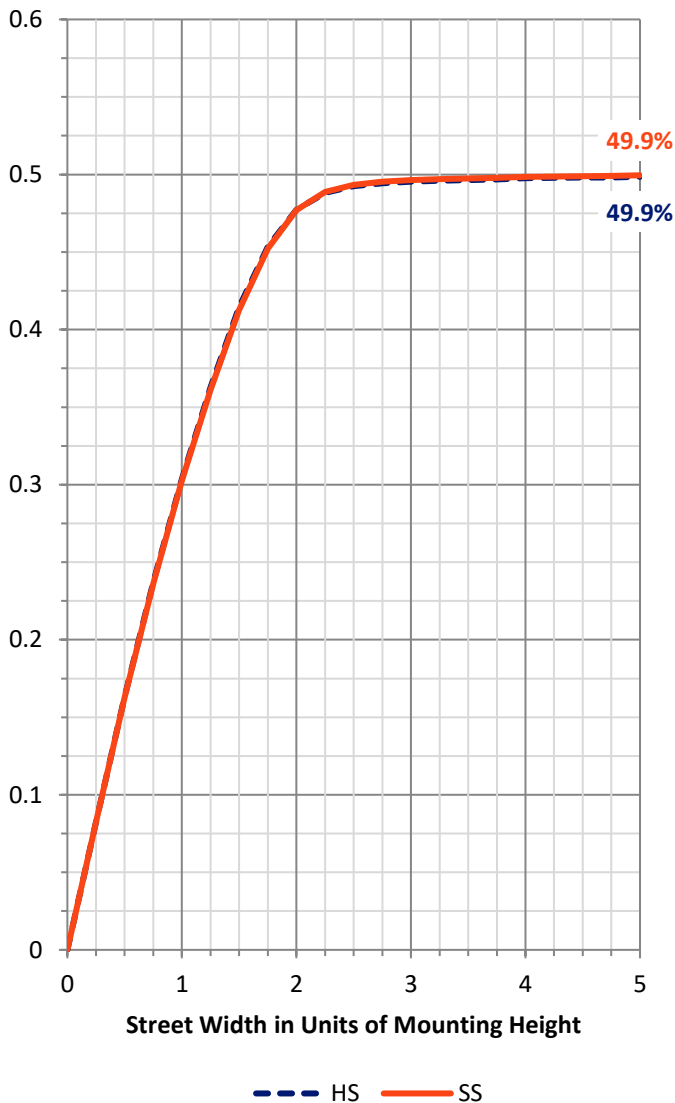
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10050.4	0.0	10050.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10050.4	0.0	10050.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20100.7	0.0	20100.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.7	1.2
10°-20°	769.9	3.8
20°-30°	1454.9	7.2
30°-40°	2409.5	12.0
40°-50°	3761.6	18.7
50°-60°	5815.3	28.9
60°-70°	5014.5	24.9
70°-80°	568.3	2.8
80°-90°	68.1	0.3
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°	20100.7	100.0
0°-180°	20100.7	100.0

**Coefficient of Utilization**



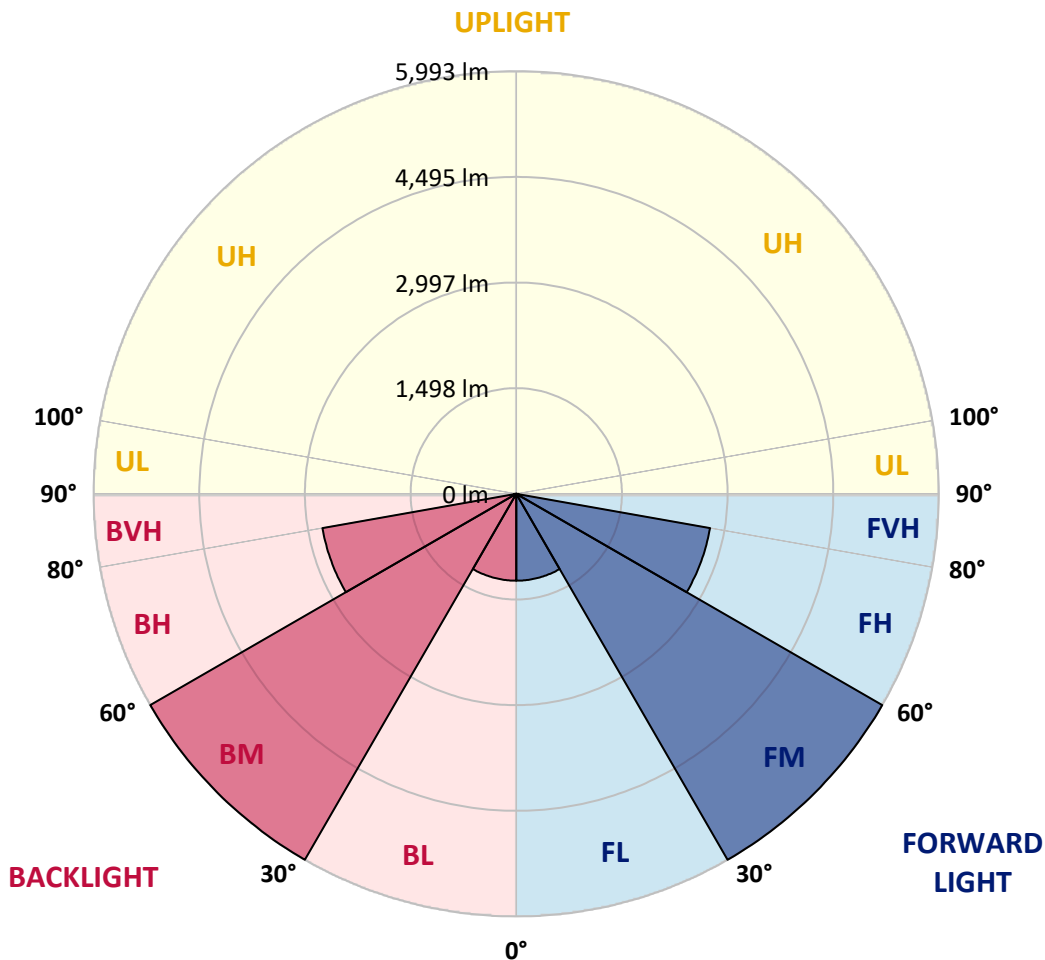
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.7	6.1			
FM (30°-60°)	5993.2	29.8			
FH (60°-80°)	2791.4	13.9			G2/5000
FVH (80°-90°)	34.0	0.2			G1/100
BL (0°-30°)	1231.7	6.1	B3/2500		
BM (30°-60°)	5993.2	29.8	B4/8500		
BH (60°-80°)	2791.4	13.9	B4/5000		G2/5000
BVH (80°-90°)	34.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5	2429.5
2.5°	2439.1	2444.5	2440.2	2439.1	2438.1	2438.1	2438.1	2439.1	2443.4	2446.6	2444.5
5°	2469.9	2474.2	2472.1	2471.0	2469.9	2471.0	2468.9	2467.8	2471.0	2471.0	2469.9
7.5°	2508.3	2513.6	2511.5	2513.6	2514.7	2515.8	2510.4	2506.2	2505.1	2508.3	2506.2
10°	2560.4	2564.7	2565.8	2566.8	2569.0	2567.9	2561.5	2554.1	2553.0	2551.9	2550.9
12.5°	2619.0	2622.2	2623.2	2627.5	2630.7	2631.8	2624.3	2617.9	2607.3	2609.5	2605.2
15°	2685.1	2691.5	2690.4	2696.8	2705.2	2707.3	2699.9	2689.3	2679.7	2674.4	2671.2
17.5°	2766.0	2770.2	2768.1	2774.5	2785.1	2790.4	2784.0	2770.2	2760.6	2748.9	2742.5
20°	2861.8	2869.2	2871.3	2871.3	2880.9	2886.2	2876.6	2872.4	2857.5	2849.0	2843.7
22.5°	2970.3	2973.5	2979.9	2986.3	2995.9	2993.8	2990.6	2984.2	2970.3	2962.9	2954.3
25°	3092.8	3096.0	3112.0	3125.8	3128.9	3126.8	3122.6	3119.4	3106.7	3089.6	3083.2
27.5°	3235.4	3241.8	3263.2	3275.9	3275.9	3277.0	3268.5	3279.1	3251.4	3231.2	3229.0
30°	3414.3	3418.6	3436.7	3449.4	3443.1	3437.8	3435.6	3446.2	3416.4	3380.2	3371.7
32.5°	3591.1	3606.0	3621.9	3649.6	3627.2	3617.6	3615.5	3622.9	3588.9	3548.4	3536.7
35°	3780.5	3791.2	3821.0	3844.5	3824.2	3801.8	3811.4	3834.9	3794.4	3740.1	3738.0
37.5°	3990.3	3999.9	4038.1	4062.7	4047.7	4009.5	4025.4	4053.1	4012.7	3945.6	3931.8
40°	4208.5	4228.7	4276.7	4302.2	4277.7	4226.6	4256.5	4286.2	4250.1	4172.4	4141.4
42.5°	4453.4	4485.3	4554.5	4567.3	4520.5	4451.2	4503.5	4551.3	4525.8	4436.4	4424.7
45°	4739.8	4759.0	4844.2	4871.8	4806.8	4720.6	4785.5	4872.8	4853.7	4750.5	4728.1
47.5°	5060.2	5078.4	5166.7	5208.2	5126.2	5010.2	5127.3	5241.2	5229.5	5118.8	5108.1
50°	5439.3	5443.5	5565.9	5612.7	5530.8	5430.8	5535.0	5676.7	5629.8	5488.2	5486.1
52.5°	5854.5	5859.8	6014.2	6104.7	6058.9	5946.0	6069.5	6155.8	6036.5	5851.3	5837.5
55°	6214.3	6240.9	6451.7	6692.3	6755.2	6673.2	6710.4	6670.0	6376.1	6116.3	6075.9
57.5°	6361.2	6413.4	6733.9	7183.1	7592.0	7713.3	7425.9	7040.5	6511.4	6144.0	6104.7
60°	6002.5	6058.9	6556.1	7408.9	8452.2	8979.2	8171.2	7103.3	6203.6	5687.3	5625.5
62.5°	4806.8	4822.8	5554.2	6877.6	8953.6	10318.5	8485.2	6567.8	5308.3	4606.7	4582.2
64°	3459.0	3622.9	4398.0	6030.1	8734.3	10828.5	8304.2	5817.2	4311.8	3601.7	3486.7
65°	2587.1	2631.8	3545.2	5149.7	8347.9	10790.1	7952.8	5099.7	3570.8	2756.4	2628.6
67.5°	977.3	982.6	1308.4	2566.8	5942.8	9283.7	6069.5	2774.5	1504.4	1088.1	1048.6
70°	405.6	413.1	480.1	863.5	2554.1	5960.9	2926.7	1000.8	550.4	446.1	439.7
72.5°	297.0	301.3	321.5	383.2	785.7	2447.6	962.4	424.8	322.6	288.5	285.4
75°	233.1	235.3	250.2	282.2	366.3	678.2	400.3	291.7	245.9	221.4	219.3
77.5°	177.8	183.1	193.8	215.0	245.9	321.5	265.1	218.2	189.5	169.3	166.1
80°	122.4	128.8	149.0	157.6	165.0	208.7	181.0	165.0	148.0	123.5	116.1
82.5°	75.6	79.8	100.1	107.6	104.4	117.2	116.1	118.2	105.4	76.6	71.3
85°	39.4	41.5	54.3	56.4	52.1	47.9	59.6	69.2	64.9	43.6	42.6
87.5°	8.5	9.6	11.7	10.7	11.7	11.7	14.9	22.4	23.5	14.9	13.9
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)