

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: P648410

Luminaire Tested: **GALN-SA5B-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648410
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-SA5B-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23401.5 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

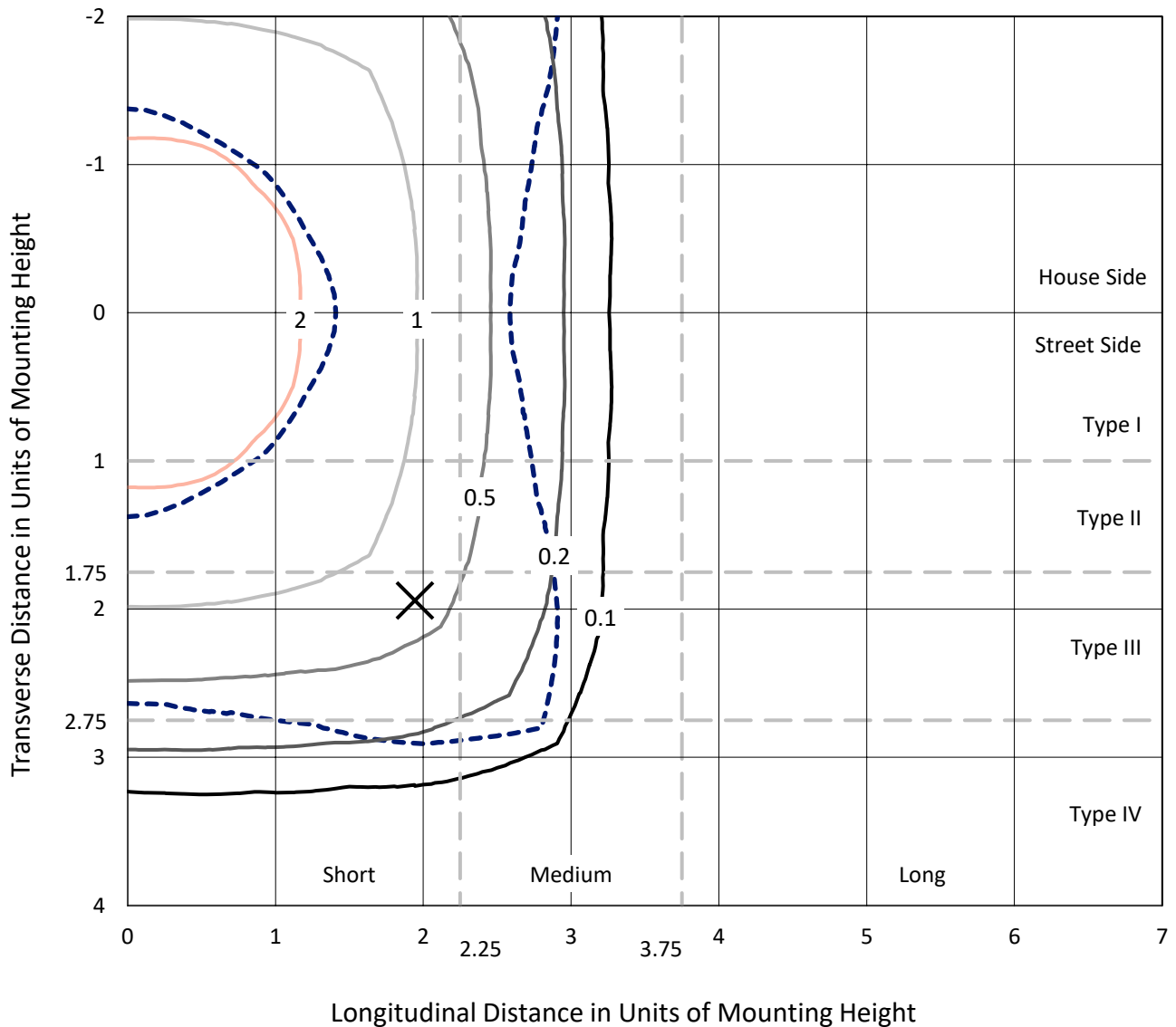
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

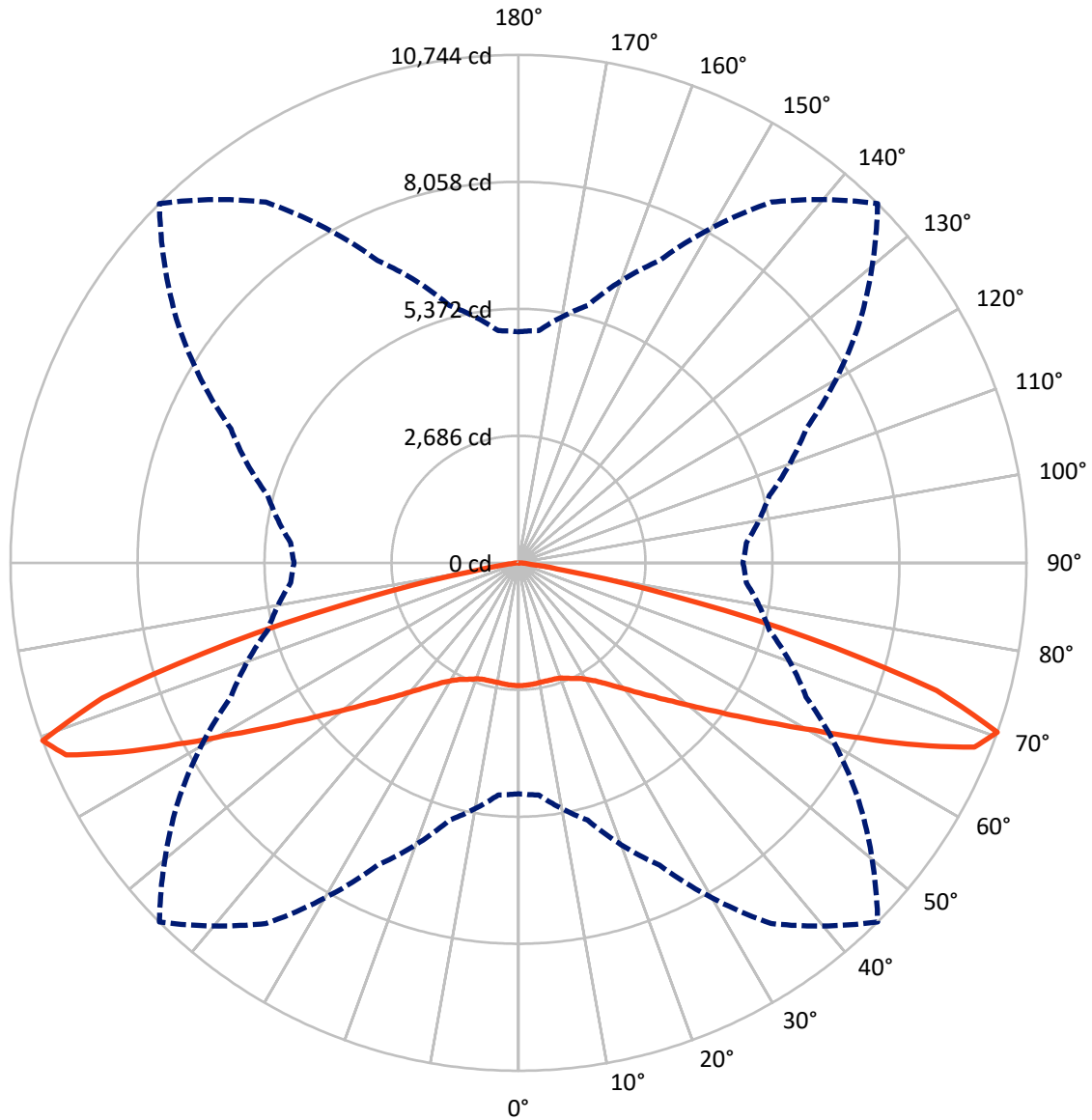
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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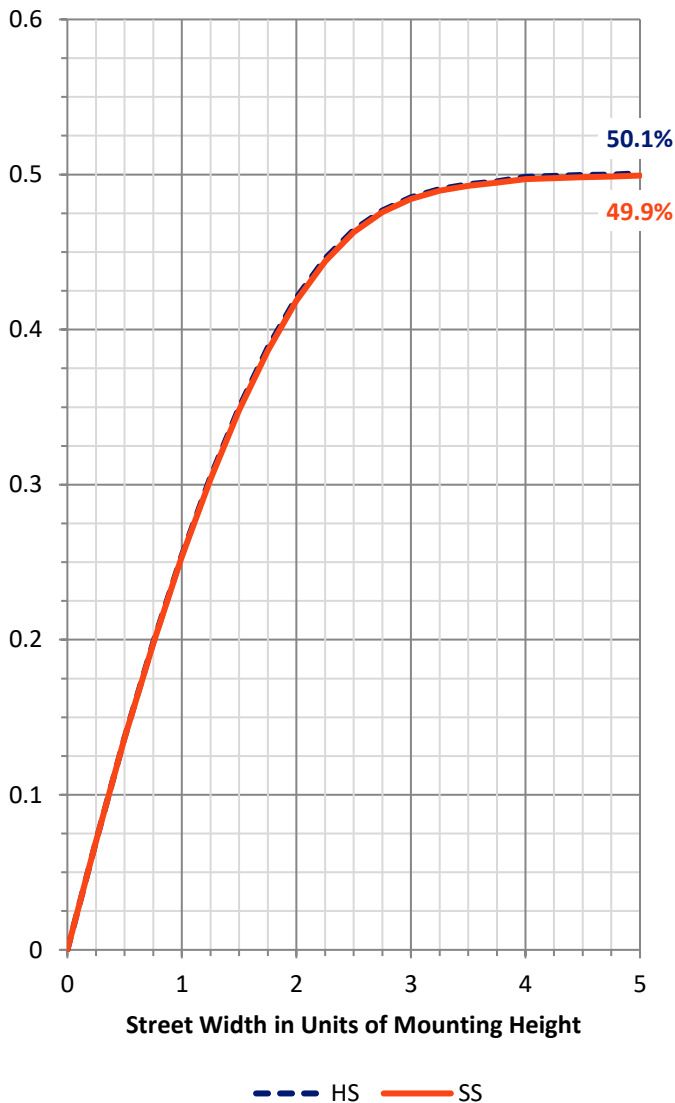
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11700.8	0.0	11700.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11700.8	0.0	11700.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23401.5	0.0	23401.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.1
10°-20°	723.1	3.1
20°-30°	1236.7	5.3
30°-40°	1963.0	8.4
40°-50°	3166.8	13.5
50°-60°	5152.5	22.0
60°-70°	7469.2	31.9
70°-80°	3313.1	14.2
80°-90°	130.7	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°	23401.5	100.0
0°-180°	23401.5	100.0

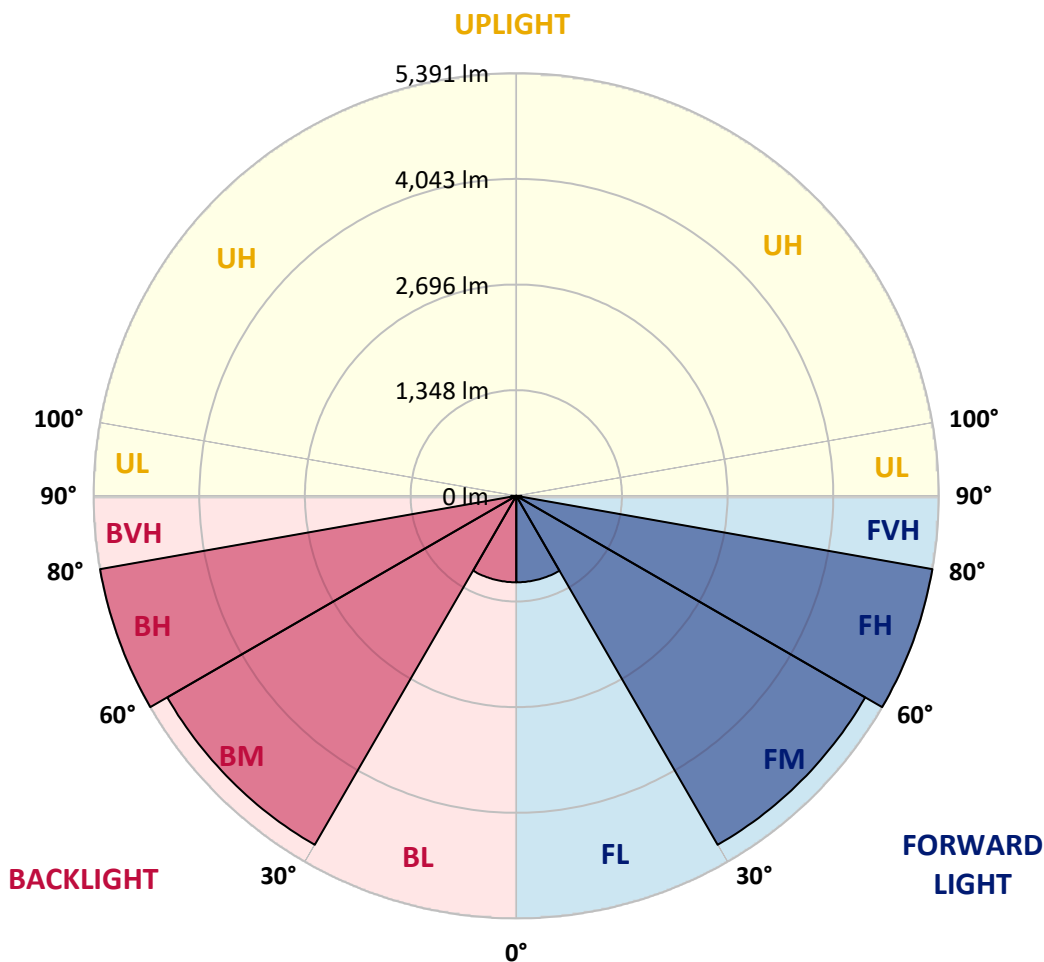


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.1	4.7			
FM (30°-60°)	5141.1	22.0			
FH (60°-80°)	5391.1	23.0			G3/7500
FVH (80°-90°)	65.3	0.3			G1/100
BL (0°-30°)	1103.1	4.7	B3/2500		
BM (30°-60°)	5141.1	22.0	B4/8500		
BH (60°-80°)	5391.1	23.0	B5		G3/7500
BVH (80°-90°)	65.3	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°	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6	2598.6
2.5°	2598.6	2601.1	2597.4	2594.9	2593.7	2593.7	2592.4	2593.7	2601.1	2602.3	2598.6
5°	2591.3	2593.7	2592.4	2590.0	2588.8	2588.8	2587.5	2586.3	2592.4	2594.9	2593.7
7.5°	2581.4	2582.6	2581.4	2580.1	2581.4	2580.1	2576.5	2574.0	2578.9	2578.9	2577.6
10°	2564.1	2566.6	2565.3	2566.6	2569.0	2569.0	2564.1	2559.2	2560.4	2557.9	2557.9
12.5°	2543.1	2546.9	2548.0	2553.0	2559.2	2566.6	2555.5	2544.4	2541.9	2540.7	2539.4
15°	2529.6	2533.2	2538.2	2543.1	2554.2	2570.3	2554.2	2537.0	2532.1	2527.1	2524.6
17.5°	2525.9	2530.8	2538.2	2545.6	2560.4	2576.5	2562.8	2545.6	2533.2	2525.9	2523.4
20°	2535.7	2539.4	2550.5	2564.1	2585.1	2601.1	2587.5	2569.0	2550.5	2539.4	2535.7
22.5°	2555.5	2561.7	2575.2	2599.9	2629.5	2652.9	2634.4	2603.6	2574.0	2559.2	2554.2
25°	2598.6	2603.6	2619.6	2652.9	2687.4	2709.6	2689.9	2654.1	2613.4	2593.7	2587.5
27.5°	2664.0	2671.4	2688.7	2728.1	2756.5	2768.8	2755.3	2730.6	2701.0	2680.1	2675.1
30°	2756.5	2765.2	2791.0	2833.0	2851.5	2858.9	2852.7	2836.7	2815.7	2793.5	2788.6
32.5°	2881.0	2886.0	2915.6	2955.0	2972.3	2974.8	2967.4	2960.0	2925.4	2888.5	2886.0
35°	3020.4	3029.0	3064.8	3111.7	3127.7	3128.9	3114.1	3103.0	3062.4	3032.8	3032.8
37.5°	3205.4	3209.1	3243.7	3296.7	3314.0	3309.0	3301.6	3291.7	3248.6	3210.4	3211.6
40°	3422.5	3429.9	3459.5	3521.2	3521.2	3515.0	3519.9	3512.5	3469.4	3432.4	3433.6
42.5°	3680.3	3683.9	3719.7	3785.1	3780.2	3767.8	3772.7	3762.9	3735.8	3693.8	3679.0
45°	3955.3	3970.1	4031.7	4094.6	4084.8	4045.3	4065.0	4062.6	4037.9	3975.1	3978.7
47.5°	4287.1	4311.7	4370.9	4446.2	4435.1	4373.4	4395.6	4410.4	4375.9	4306.8	4294.4
50°	4660.7	4676.8	4764.3	4834.6	4824.8	4759.4	4810.0	4812.5	4726.1	4628.7	4628.7
52.5°	5059.1	5075.2	5193.6	5303.3	5309.5	5214.5	5255.3	5252.8	5112.1	4983.9	4959.2
55°	5505.6	5513.0	5665.9	5827.5	5862.0	5769.5	5774.5	5725.1	5542.6	5393.4	5379.8
57.5°	5966.9	5994.0	6163.0	6372.6	6475.0	6418.3	6392.3	6260.4	6084.0	5912.6	5904.0
60°	6477.4	6478.7	6698.3	6946.1	7153.3	7191.5	7085.5	6909.1	6680.9	6454.0	6444.2
62.5°	6831.4	6884.4	7161.9	7581.3	7952.5	8167.1	7887.2	7517.2	7068.2	6701.9	6664.9
65°	6904.2	6940.0	7363.0	8073.4	8831.8	9294.4	8646.9	7860.0	7094.1	6605.7	6581.0
67.5°	6315.9	6354.1	6923.9	8014.2	9448.5	10397.0	9140.2	7694.8	6655.0	6050.7	6002.6
70°	4885.2	4928.4	5632.6	7054.7	9311.7	10743.5	8788.7	6711.8	5488.4	4835.9	4748.3
72.5°	2597.4	2756.5	3358.4	4842.1	7557.8	9250.0	7206.3	4897.6	3539.6	2893.4	2777.5
75°	948.4	968.2	1303.6	2147.2	4396.9	6343.0	4565.8	2335.9	1343.1	1037.2	984.2
77.5°	392.2	391.0	429.2	648.7	1597.2	3248.6	1782.2	685.8	428.0	395.9	391.0
80°	231.8	231.8	255.3	270.1	420.5	980.5	469.9	305.8	256.5	234.4	238.0
82.5°	103.6	109.8	161.5	170.2	203.5	268.9	226.9	194.9	167.7	116.0	104.8
85°	56.8	49.3	85.1	88.8	97.4	99.9	107.3	106.1	97.4	56.8	57.9
87.5°	11.1	13.5	24.7	18.5	21.0	18.5	24.7	34.5	35.8	19.7	16.1
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)