

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: P453264

Luminaire Tested: **GALN-SA4B-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453264
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-SA4B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 23609 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

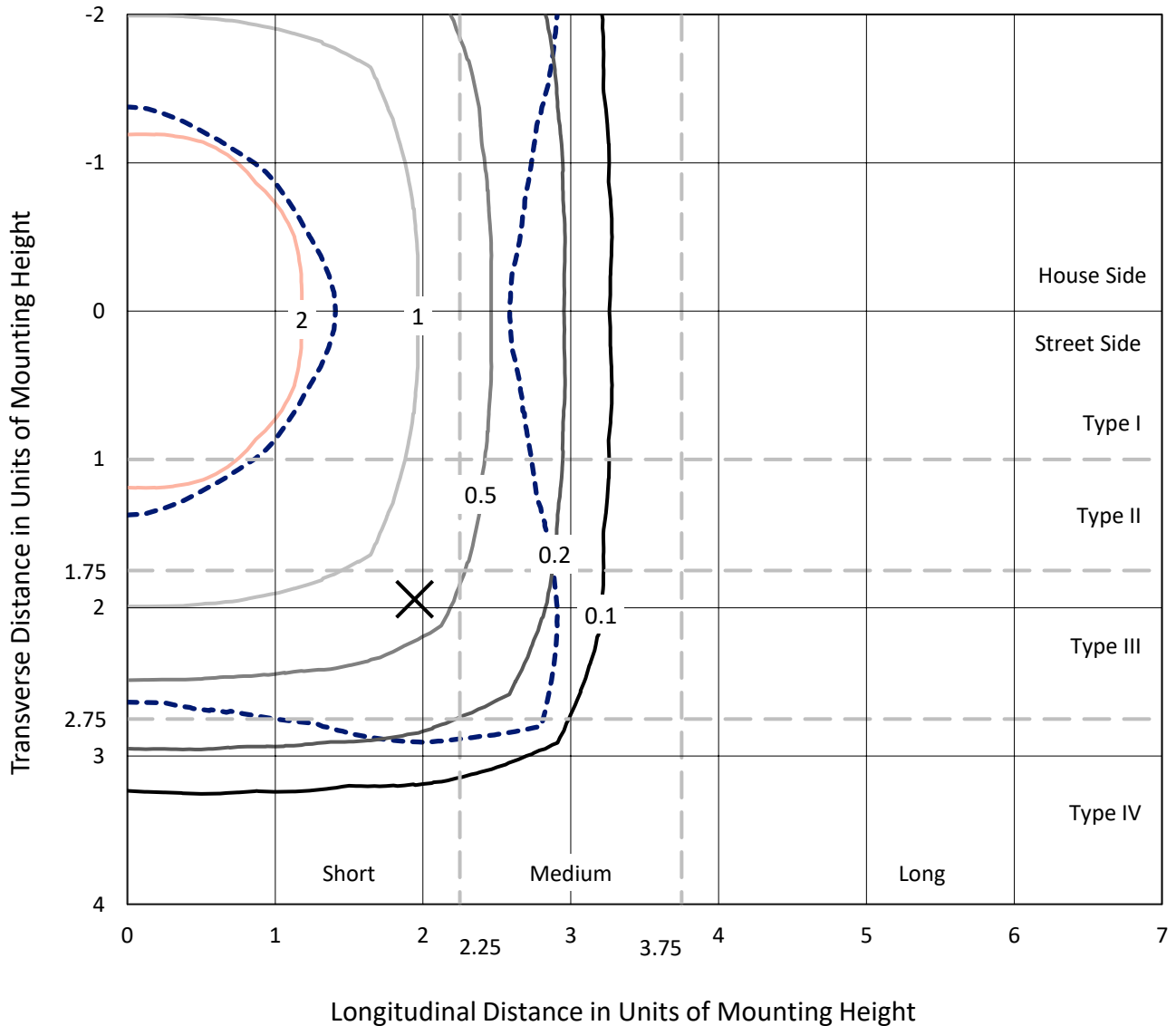
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

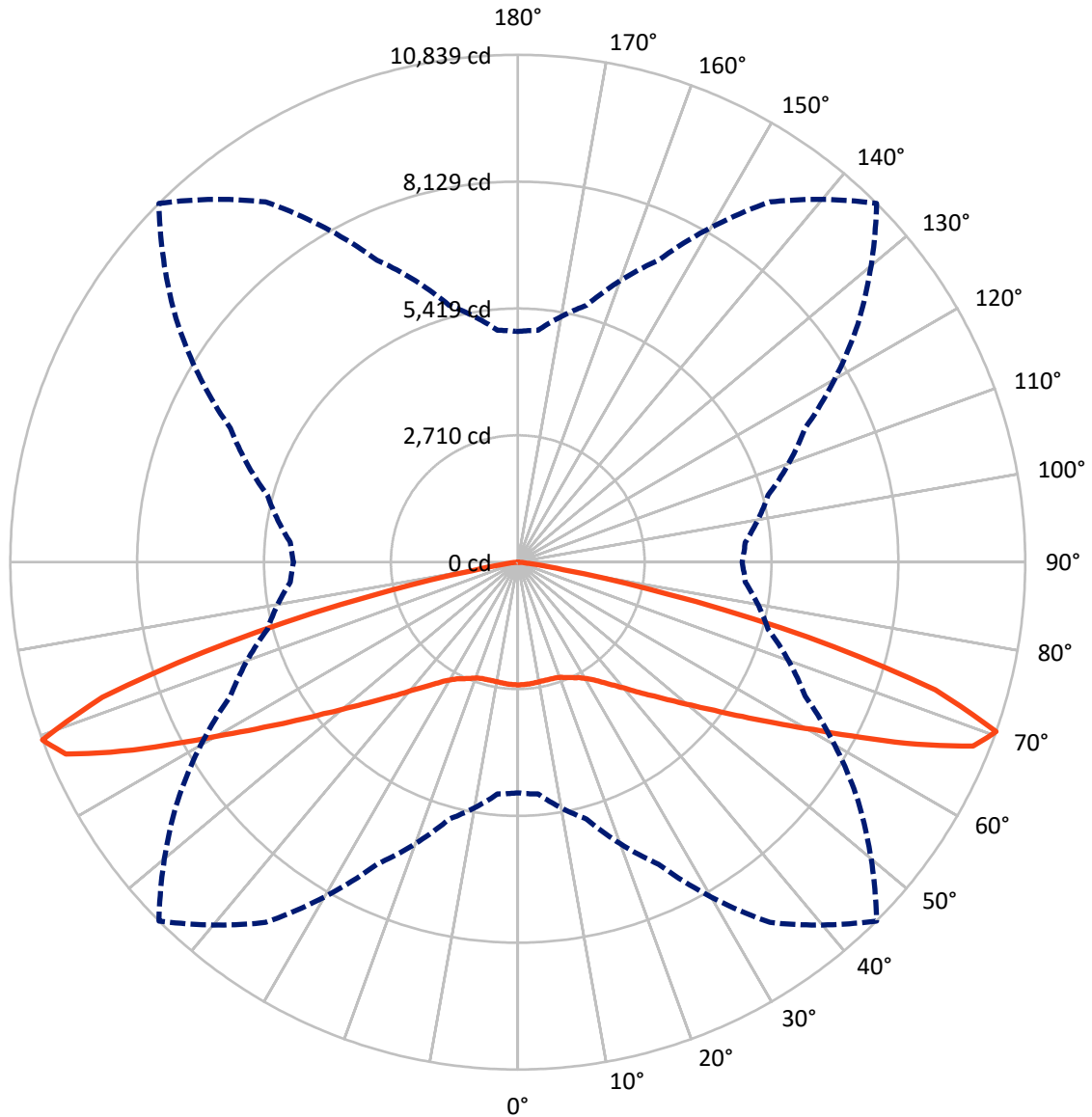
× Max cd
 - - - 1/2 Max cd



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	11804.5	0.0	11804.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11804.5	0.0	11804.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23609.0	0.0	23609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	1.1
10°-20°	729.5	3.1
20°-30°	1247.7	5.3
30°-40°	1980.4	8.4
40°-50°	3194.9	13.5
50°-60°	5198.2	22.0
60°-70°	7535.4	31.9
70°-80°	3342.5	14.2
80°-90°	131.8	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°	23609.0	100.0
0°-180°	23609.0	100.0

Coefficient of Utilization



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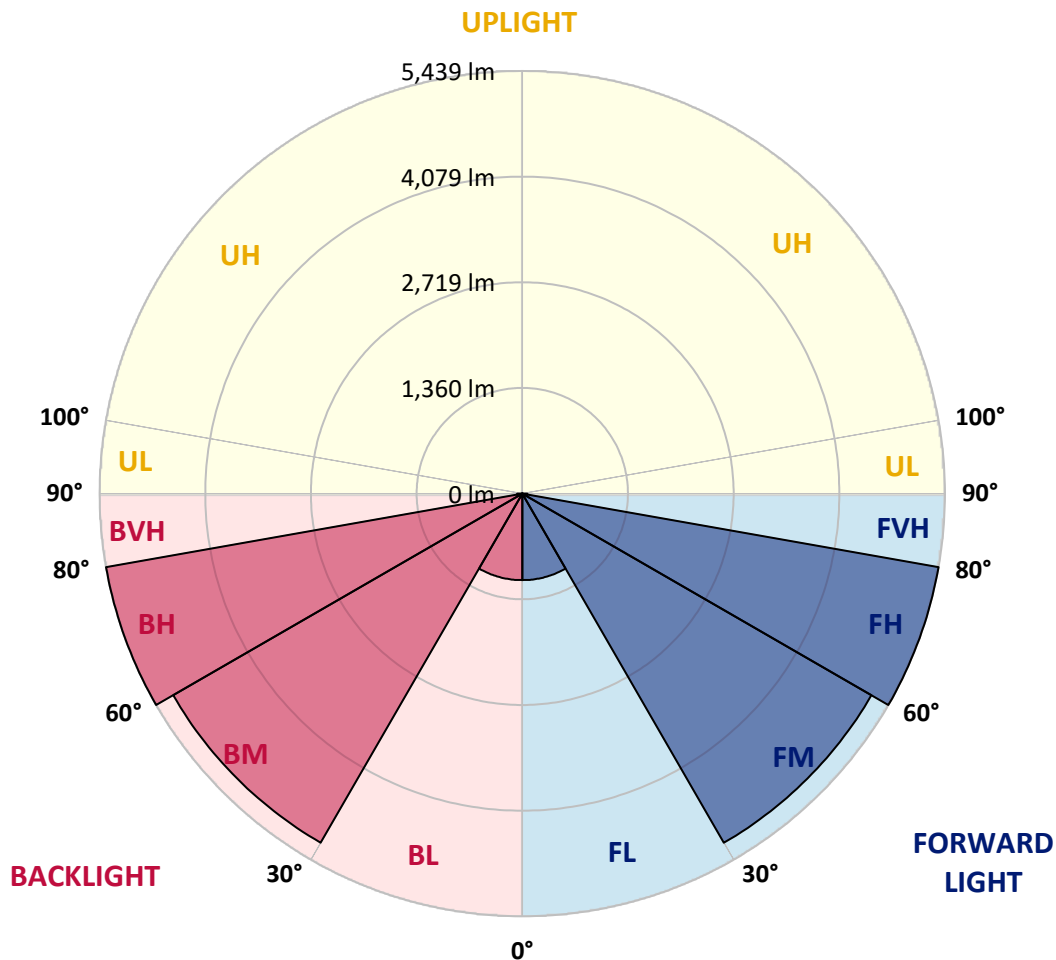
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.9	4.7			
FM (30°-60°)	5186.7	22.0			
FH (60°-80°)	5439.0	23.0			G3/7500
FVH (80°-90°)	65.9	0.3			G1/100
BL (0°-30°)	1112.9	4.7	B3/2500		
BM (30°-60°)	5186.7	22.0	B4/8500		
BH (60°-80°)	5439.0	23.0	B5		G3/7500
BVH (80°-90°)	65.9	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°	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7
2.5°	2621.7	2624.2	2620.4	2617.9	2616.7	2616.7	2615.4	2616.7	2624.2	2625.4	2621.7
5°	2614.2	2616.7	2615.4	2613.0	2611.7	2611.7	2610.5	2609.2	2615.4	2617.9	2616.7
7.5°	2604.2	2605.5	2604.2	2603.0	2604.2	2603.0	2599.3	2596.8	2601.8	2601.8	2600.5
10°	2586.8	2589.3	2588.1	2589.3	2591.8	2591.8	2586.8	2581.9	2583.1	2580.6	2580.6
12.5°	2565.7	2569.4	2570.7	2575.6	2581.9	2589.3	2578.1	2566.9	2564.4	2563.2	2561.9
15°	2552.0	2555.7	2560.7	2565.7	2576.9	2593.1	2576.9	2559.5	2554.5	2549.5	2547.0
17.5°	2548.3	2553.2	2560.7	2568.2	2583.1	2599.3	2585.6	2568.2	2555.7	2548.3	2545.8
20°	2558.2	2561.9	2573.1	2586.8	2608.0	2624.2	2610.5	2591.8	2573.1	2561.9	2558.2
22.5°	2578.1	2584.3	2598.0	2622.9	2652.8	2676.4	2657.8	2626.6	2596.8	2581.9	2576.9
25°	2621.7	2626.6	2642.8	2676.4	2711.3	2733.7	2713.7	2677.7	2636.6	2616.7	2610.5
27.5°	2687.6	2695.1	2712.5	2752.3	2780.9	2793.4	2779.7	2754.8	2724.9	2703.8	2698.8
30°	2780.9	2789.6	2815.8	2858.1	2876.7	2884.2	2878.0	2861.8	2840.7	2818.3	2813.3
32.5°	2906.6	2911.6	2941.4	2981.3	2998.7	3001.2	2993.7	2986.2	2951.4	2914.1	2911.6
35°	3047.2	3055.9	3092.0	3139.3	3155.5	3156.7	3141.8	3130.6	3089.5	3059.6	3059.6
37.5°	3233.8	3237.6	3272.4	3325.9	3343.3	3338.4	3330.9	3320.9	3277.4	3238.8	3240.1
40°	3452.8	3460.3	3490.2	3552.4	3552.4	3546.2	3551.1	3543.7	3500.1	3462.8	3464.0
42.5°	3712.9	3716.6	3752.7	3818.7	3813.7	3801.2	3806.2	3796.3	3768.9	3726.6	3711.6
45°	3990.4	4005.3	4067.5	4131.0	4121.0	4081.2	4101.1	4098.6	4073.7	4010.3	4014.0
47.5°	4325.1	4350.0	4409.7	4485.6	4474.4	4412.2	4434.6	4449.5	4414.7	4345.0	4332.5
50°	4702.1	4718.3	4806.6	4877.5	4867.6	4801.6	4852.6	4855.1	4768.0	4669.7	4669.7
52.5°	5104.0	5120.2	5239.6	5350.3	5356.6	5260.8	5301.8	5299.3	5157.5	5028.1	5003.2
55°	5554.4	5561.9	5716.2	5879.2	5914.0	5820.7	5825.7	5775.9	5591.7	5441.2	5427.5
57.5°	6019.8	6047.1	6217.6	6429.1	6532.4	6475.2	6449.0	6315.9	6138.0	5965.0	5956.3
60°	6534.9	6536.1	6757.6	7007.7	7216.7	7255.3	7148.3	6970.4	6740.2	6511.2	6501.3
62.5°	6892.0	6945.5	7225.5	7648.5	8023.0	8239.5	7957.1	7583.8	7130.9	6761.3	6724.0
65°	6965.4	7001.5	7428.3	8145.0	8910.2	9376.8	8723.5	7929.7	7157.0	6664.3	6639.4
67.5°	6371.9	6410.5	6985.3	8085.2	9532.3	10489.2	9221.3	7763.0	6714.1	6104.4	6055.8
70°	4928.5	4972.1	5682.6	7117.2	9394.2	10838.8	8866.6	6771.3	5537.0	4878.8	4790.4
72.5°	2620.4	2780.9	3388.1	4885.0	7624.9	9332.0	7270.2	4941.0	3571.0	2919.0	2802.1
75°	956.8	976.7	1315.2	2166.3	4435.8	6399.3	4606.3	2356.6	1355.0	1046.4	992.9
77.5°	395.7	394.4	433.0	654.5	1611.3	3277.4	1798.0	691.8	431.8	399.4	394.4
80°	233.9	233.9	257.6	272.5	424.3	989.2	474.1	308.6	258.8	236.4	240.1
82.5°	104.5	110.7	163.0	171.7	205.3	271.2	228.9	196.6	169.2	117.0	105.8
85°	57.2	49.8	85.9	89.6	98.3	100.8	108.3	107.0	98.3	57.2	58.5
87.5°	11.2	13.7	24.9	18.7	21.2	18.7	24.9	34.8	36.1	19.9	16.2
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)