

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: P454194

Luminaire Tested: **GALN-SA5B-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29824 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

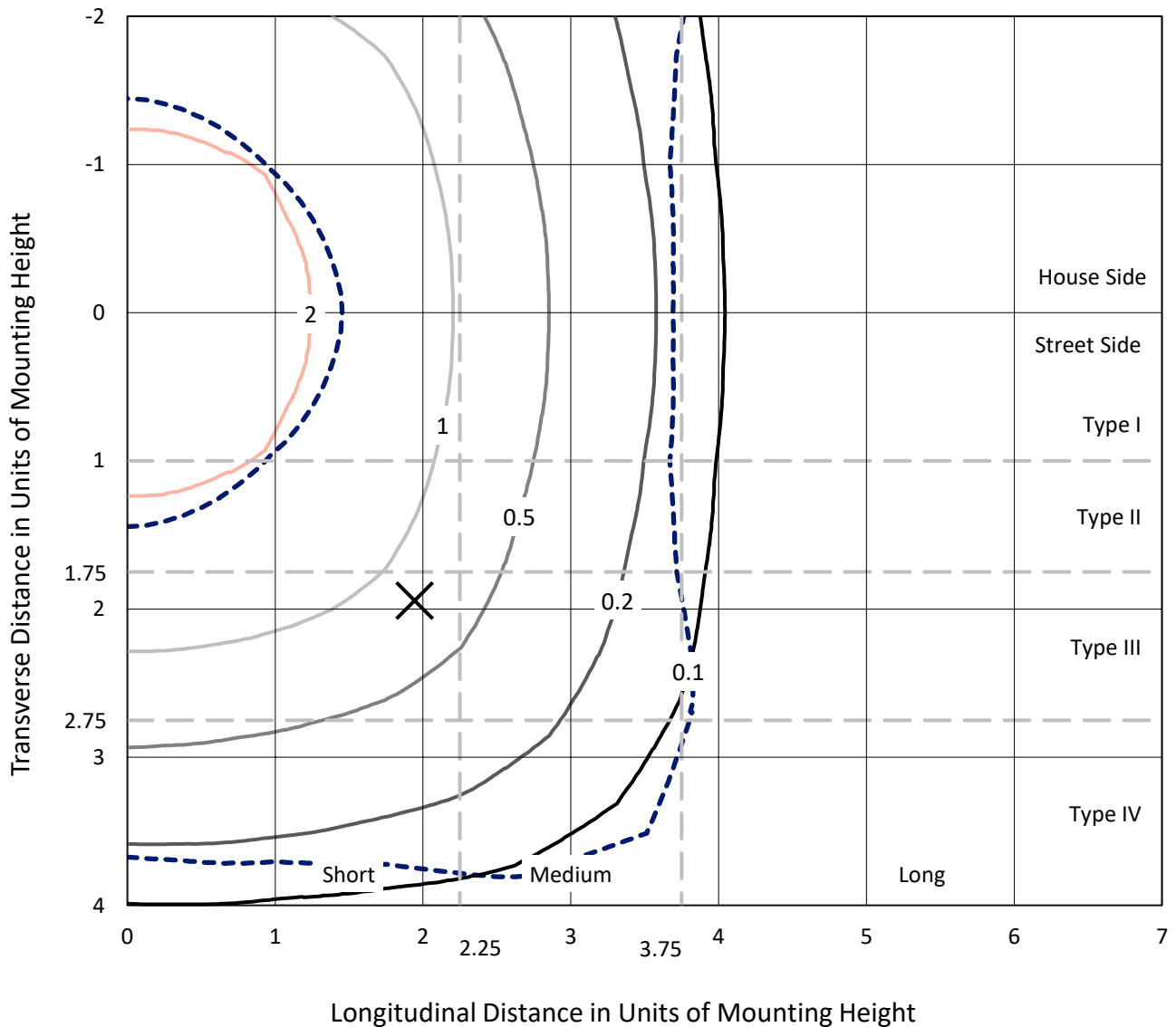
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

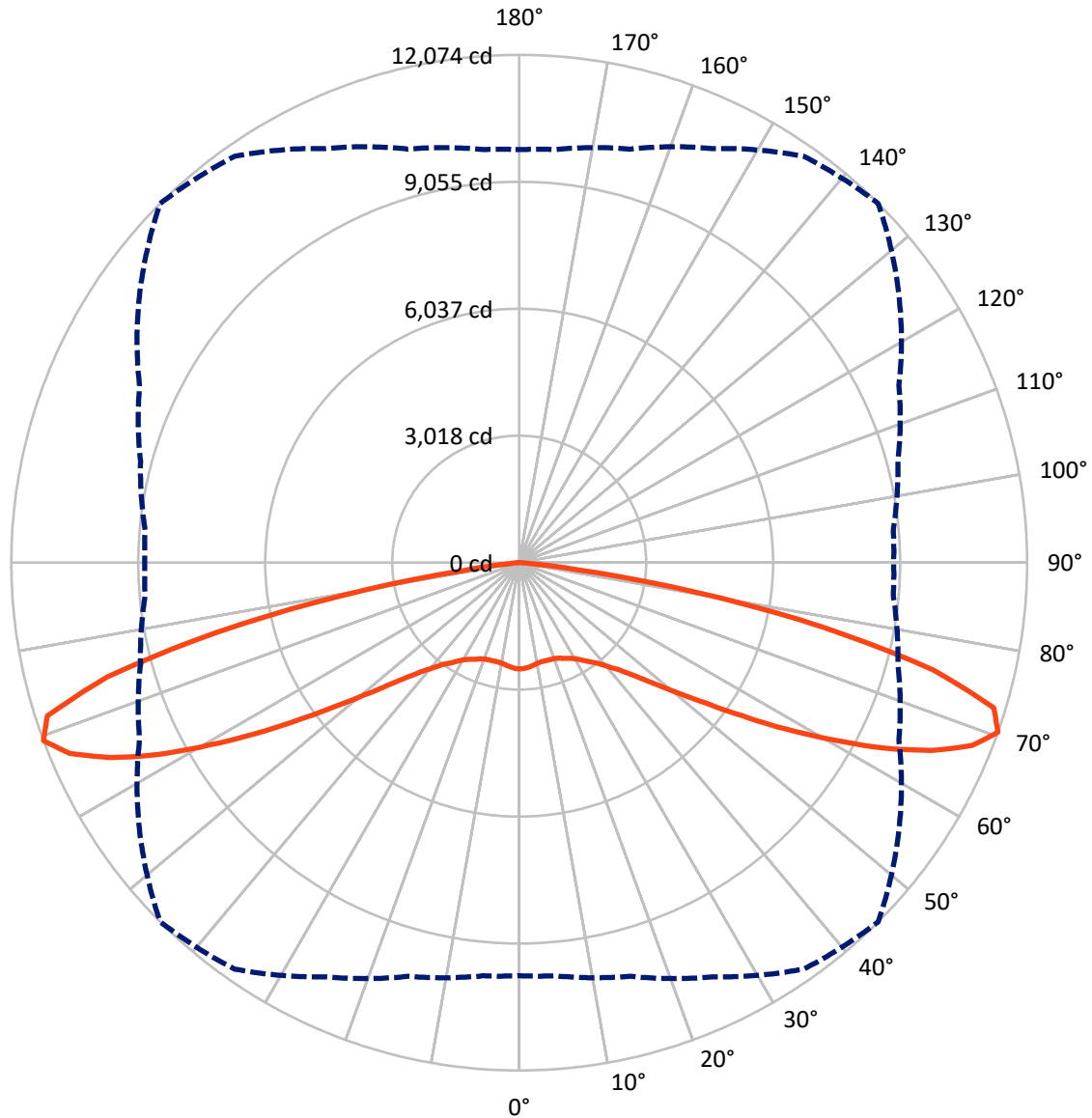
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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
<b>House Side</b>	Lumens	14912.0	0.0	14912.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14912.0	0.0	14912.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29824.0	0.0	29824.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	0.8
10°-20°	691.3	2.3
20°-30°	1177.8	3.9
30°-40°	1825.6	6.1
40°-50°	3072.7	10.3
50°-60°	5590.6	18.7
60°-70°	9464.8	31.7
70°-80°	7326.1	24.6
80°-90°	439.0	1.5
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°	29824.0	100.0
0°-180°	29824.0	100.0

**Coefficient of Utilization**



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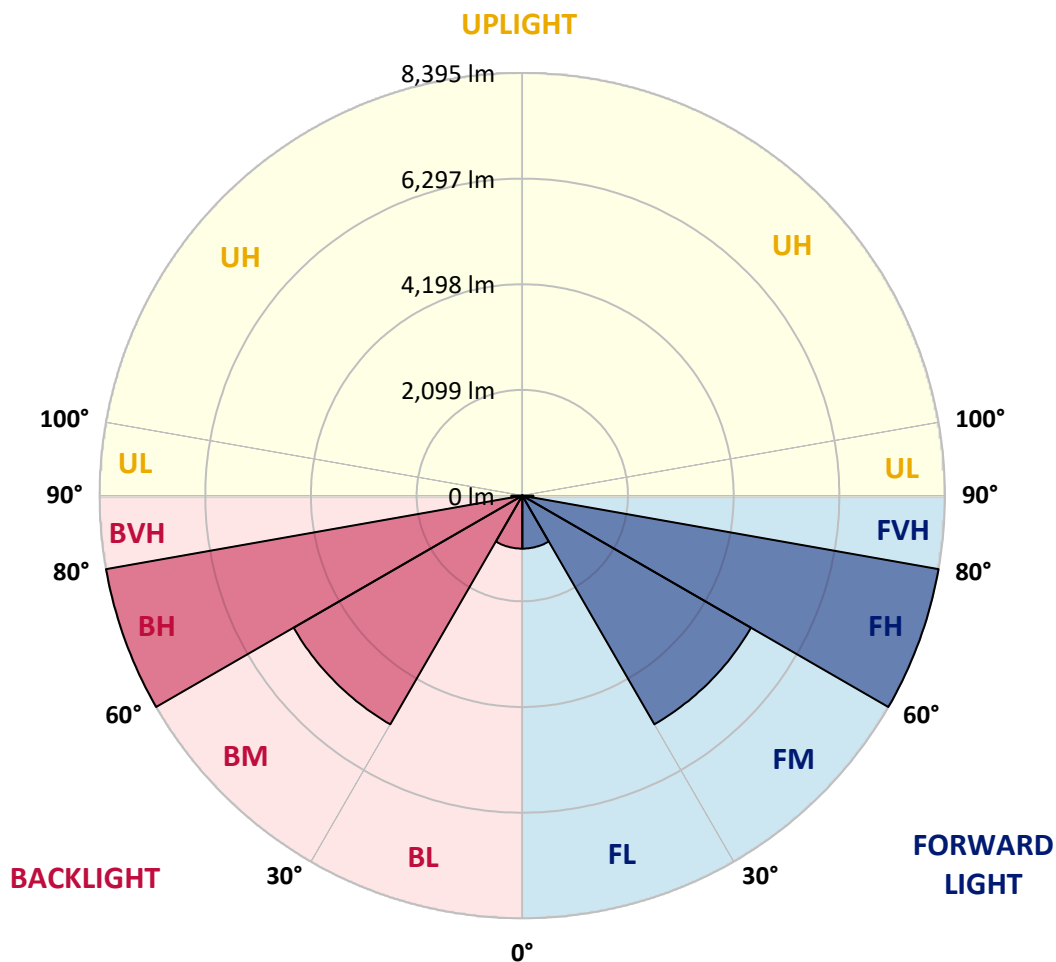
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.6	3.5			
FM (30°-60°)	5244.4	17.6			
FH (60°-80°)	8395.5	28.1			G4/12000
FVH (80°-90°)	219.5	0.7			G2/225
BL (0°-30°)	1052.6	3.5	B3/2500		
BM (30°-60°)	5244.4	17.6	B4/8500		
BH (60°-80°)	8395.5	28.1	B5		G4/12000
BVH (80°-90°)	219.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0
2.5°	2518.7	2520.2	2520.2	2517.1	2515.5	2515.5	2513.9	2513.9	2518.7	2520.2	2521.8
5°	2496.6	2496.6	2496.6	2495.0	2491.9	2491.9	2488.7	2488.7	2490.3	2495.0	2491.9
7.5°	2466.7	2469.8	2469.8	2463.5	2458.8	2458.8	2457.2	2458.8	2460.4	2465.1	2463.5
10°	2457.2	2458.8	2450.9	2439.9	2432.0	2427.3	2428.9	2432.0	2439.9	2443.1	2444.6
12.5°	2463.5	2463.5	2449.4	2433.6	2419.4	2413.1	2411.6	2422.6	2436.8	2446.2	2449.4
15°	2471.4	2468.3	2450.9	2430.5	2416.3	2414.7	2413.1	2421.0	2441.5	2460.4	2462.0
17.5°	2476.1	2474.6	2452.5	2427.3	2419.4	2419.4	2417.9	2424.2	2446.2	2469.8	2471.4
20°	2491.9	2487.2	2462.0	2435.2	2428.9	2432.0	2427.3	2435.2	2458.8	2487.2	2493.5
22.5°	2523.4	2518.7	2493.5	2466.7	2463.5	2463.5	2462.0	2469.8	2495.0	2525.0	2529.7
25°	2561.2	2556.5	2532.8	2513.9	2517.1	2523.4	2520.2	2521.8	2542.3	2567.5	2575.4
27.5°	2611.6	2603.7	2583.2	2567.5	2576.9	2576.9	2576.9	2575.4	2588.0	2611.6	2619.5
30°	2673.0	2669.9	2647.8	2646.3	2654.1	2646.3	2646.3	2647.8	2649.4	2671.5	2679.3
32.5°	2753.4	2747.1	2736.0	2732.9	2754.9	2761.2	2739.2	2718.7	2729.7	2751.8	2756.5
35°	2885.7	2876.2	2860.5	2843.1	2860.5	2890.4	2843.1	2827.4	2855.7	2885.7	2888.8
37.5°	3065.2	3060.5	3035.3	3003.8	3002.2	3033.7	2984.9	2983.3	3036.9	3073.1	3077.8
40°	3290.5	3295.2	3263.7	3233.8	3218.0	3243.2	3205.4	3219.6	3271.6	3312.5	3309.4
42.5°	3607.1	3589.8	3540.9	3512.6	3495.3	3485.8	3476.4	3498.4	3556.7	3600.8	3635.4
45°	3977.3	3971.0	3909.5	3874.9	3837.1	3822.9	3819.7	3859.1	3930.0	3983.6	3988.3
47.5°	4396.2	4382.1	4342.7	4306.5	4292.3	4275.0	4259.2	4289.1	4360.0	4397.8	4408.8
50°	4827.8	4831.0	4831.0	4824.7	4838.9	4842.0	4799.5	4810.5	4849.9	4846.7	4843.6
52.5°	5320.9	5338.2	5420.1	5428.0	5495.7	5541.4	5464.2	5418.5	5404.3	5319.3	5325.6
55°	5900.5	5916.3	6039.1	6162.0	6344.7	6421.9	6259.6	6117.9	6017.1	5887.9	5894.2
57.5°	6623.5	6631.4	6747.9	6984.2	7274.0	7455.2	7170.1	6889.7	6684.9	6562.1	6513.2
60°	7401.6	7409.5	7579.6	7867.9	8318.4	8538.9	8186.1	7727.7	7469.4	7281.9	7294.5
62.5°	8335.7	8367.2	8520.0	8916.9	9463.5	9710.8	9243.0	8630.3	8280.6	8047.4	8056.9
65°	9335.9	9389.5	9556.4	9992.8	10496.8	10763.0	10189.7	9482.4	9047.7	8762.6	8792.5
67.5°	9984.9	10032.1	10273.1	10755.1	11383.6	11604.1	10863.8	10040.0	9496.6	9156.4	9093.3
70°	9819.5	9858.9	10180.2	10863.8	11794.7	12073.5	11024.5	9958.1	9318.6	8926.4	8901.2
72.5°	8668.1	8586.1	9055.5	10036.9	11325.3	11793.2	10518.9	9094.9	8290.0	7886.8	7839.5
75°	5744.6	5922.6	6615.6	7771.8	9581.6	10161.3	8978.4	7302.4	6289.6	5954.1	5902.1
77.5°	1920.1	2057.1	2673.0	4405.7	6532.2	7403.2	6541.6	4775.9	3378.7	2721.9	2734.5
80°	508.8	502.5	650.5	1211.3	2822.7	4287.6	3285.8	1617.7	885.2	641.1	608.0
82.5°	182.7	204.8	263.1	335.5	748.2	1332.6	940.4	453.6	332.4	245.7	237.8
85°	80.3	78.8	113.4	133.9	187.4	248.9	220.5	192.2	168.5	111.8	104.0
87.5°	17.3	17.3	26.8	20.5	33.1	33.1	41.0	48.8	50.4	33.1	26.8
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)