

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: P453960

Luminaire Tested: **GALN-SA5A-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453960  
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-SA5A-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24020 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

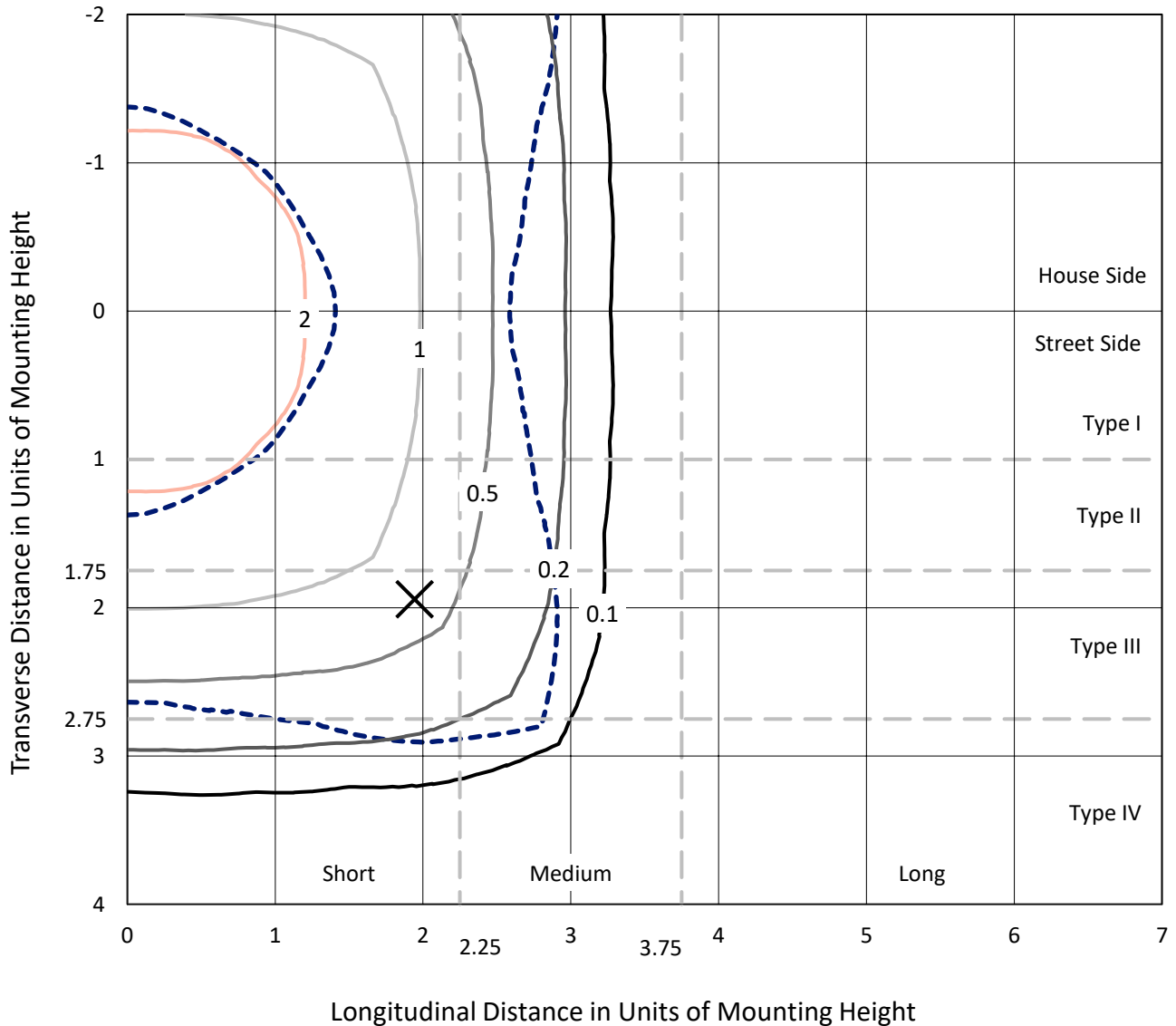
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

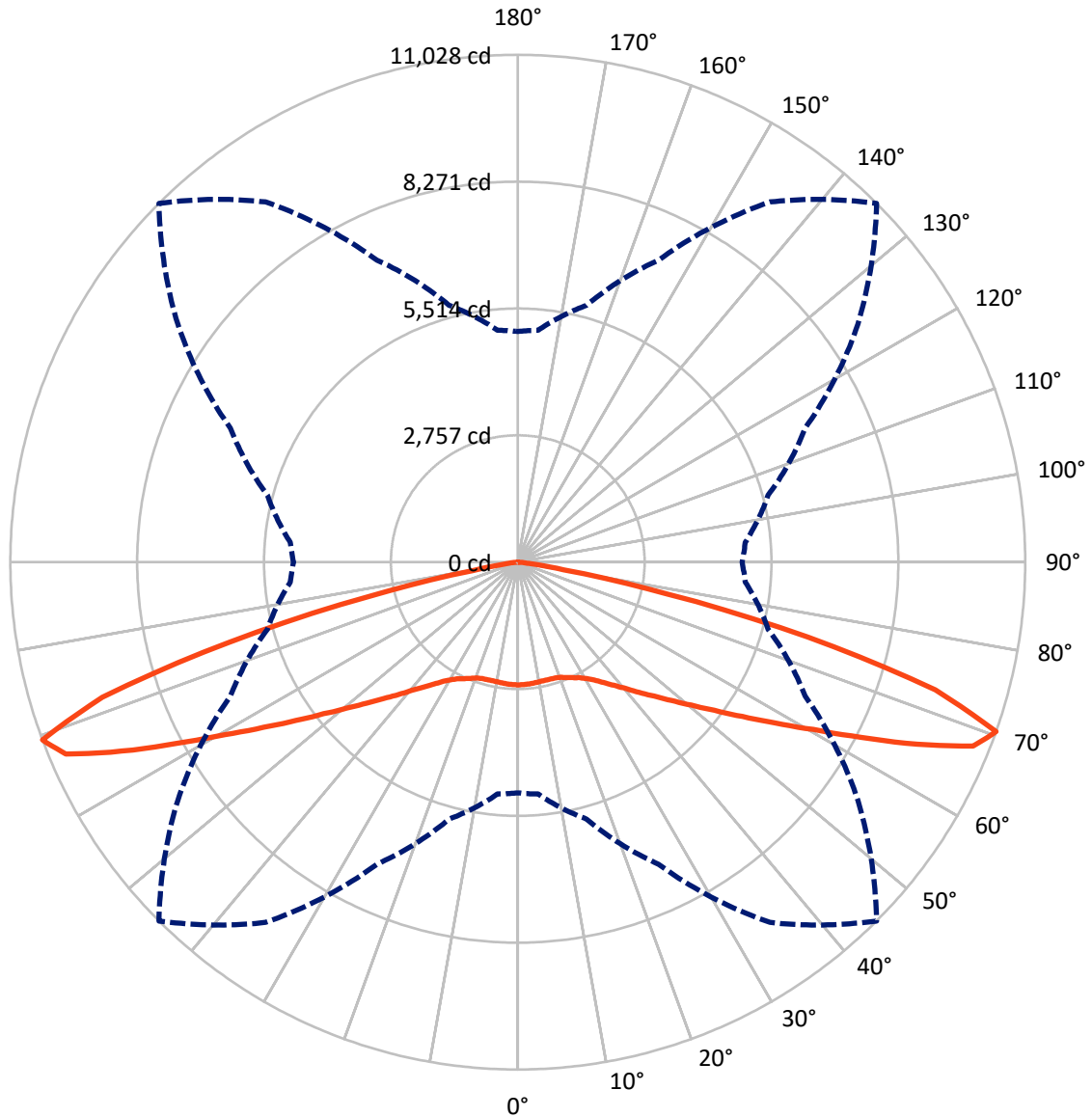
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	12010.0	0.0	12010.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12010.0	0.0	12010.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24020.0	0.0	24020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.9	1.1
10°-20°	742.2	3.1
20°-30°	1269.4	5.3
30°-40°	2014.9	8.4
40°-50°	3250.5	13.5
50°-60°	5288.6	22.0
60°-70°	7666.6	31.9
70°-80°	3400.6	14.2
80°-90°	134.1	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°	24020.0	100.0
0°-180°	24020.0	100.0

**Coefficient of Utilization**



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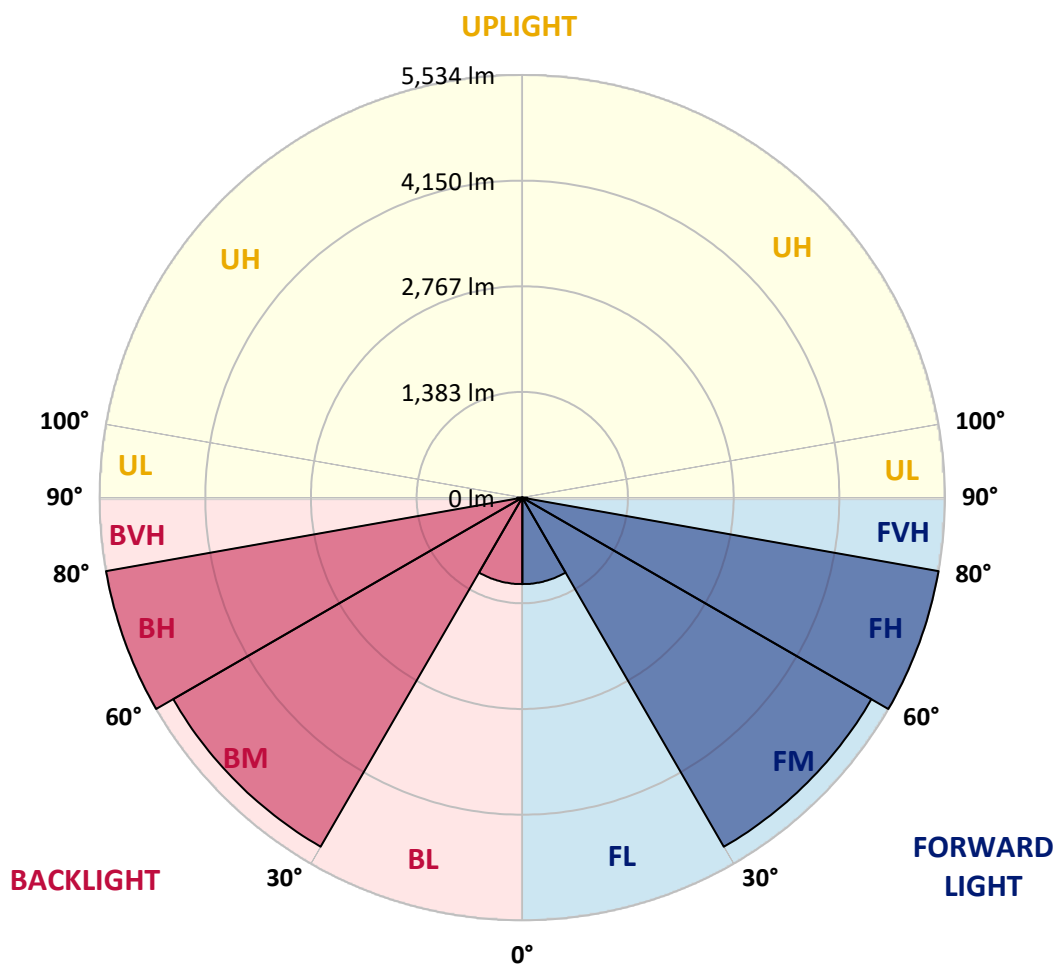
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.3	4.7			
FM	(30°-60°)	5277.0	22.0			
FH	(60°-80°)	5533.6	23.0			G3/7500
FVH	(80°-90°)	67.1	0.3			G1/100
BL	(0°-30°)	1132.3	4.7	B3/2500		
BM	(30°-60°)	5277.0	22.0	B4/8500		
BH	(60°-80°)	5533.6	23.0	B5		G3/7500
BVH	(80°-90°)	67.1	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°	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3	2667.3
2.5°	2667.3	2669.8	2666.0	2663.5	2662.2	2662.2	2661.0	2662.2	2669.8	2671.1	2667.3
5°	2659.7	2662.2	2661.0	2658.4	2657.2	2657.2	2655.9	2654.6	2661.0	2663.5	2662.2
7.5°	2649.6	2650.9	2649.6	2648.3	2649.6	2648.3	2644.5	2642.0	2647.1	2647.1	2645.8
10°	2631.9	2634.4	2633.1	2634.4	2636.9	2636.9	2631.9	2626.8	2628.1	2625.5	2625.5
12.5°	2610.3	2614.1	2615.4	2620.5	2626.8	2634.4	2623.0	2611.6	2609.1	2607.8	2606.5
15°	2596.4	2600.2	2605.3	2610.3	2621.7	2638.2	2621.7	2604.0	2598.9	2593.9	2591.4
17.5°	2592.6	2597.7	2605.3	2612.9	2628.1	2644.5	2630.6	2612.9	2600.2	2592.6	2590.1
20°	2602.7	2606.5	2617.9	2631.9	2653.4	2669.8	2655.9	2636.9	2617.9	2606.5	2602.7
22.5°	2623.0	2629.3	2643.3	2668.6	2699.0	2723.0	2704.0	2672.4	2642.0	2626.8	2621.7
25°	2667.3	2672.4	2688.8	2723.0	2758.5	2781.2	2761.0	2724.3	2682.5	2662.2	2655.9
27.5°	2734.4	2742.0	2759.7	2800.2	2829.3	2842.0	2828.1	2802.8	2772.4	2750.9	2745.8
30°	2829.3	2838.2	2864.8	2907.8	2926.8	2934.4	2928.1	2911.6	2890.1	2867.3	2862.3
32.5°	2957.2	2962.3	2992.7	3033.2	3050.9	3053.4	3045.8	3038.2	3002.8	2964.8	2962.3
35°	3100.3	3109.1	3145.8	3193.9	3210.4	3211.7	3196.5	3185.1	3143.3	3112.9	3112.9
37.5°	3290.1	3293.9	3329.4	3383.8	3401.5	3396.5	3388.9	3378.8	3334.5	3295.2	3296.5
40°	3512.9	3520.5	3550.9	3614.2	3614.2	3607.9	3613.0	3605.4	3561.1	3523.1	3524.3
42.5°	3777.5	3781.3	3818.0	3885.1	3880.1	3867.4	3872.5	3862.3	3834.5	3791.5	3776.3
45°	4059.8	4075.0	4138.3	4202.9	4192.7	4152.2	4172.5	4170.0	4144.6	4080.1	4083.9
47.5°	4400.4	4425.7	4486.4	4563.7	4552.3	4489.0	4511.8	4527.0	4491.5	4420.6	4408.0
50°	4783.9	4800.4	4890.3	4962.4	4952.3	4885.2	4937.1	4939.6	4851.0	4751.0	4751.0
52.5°	5192.8	5209.3	5330.8	5443.5	5449.8	5352.3	5394.1	5391.6	5247.3	5115.6	5090.3
55°	5651.1	5658.7	5815.7	5981.5	6017.0	5922.0	5927.1	5876.4	5689.1	5535.9	5522.0
57.5°	6124.6	6152.4	6325.8	6541.0	6646.1	6587.9	6561.3	6425.8	6244.8	6068.9	6060.0
60°	6648.6	6649.9	6875.2	7129.7	7342.4	7381.6	7272.7	7091.7	6857.5	6624.6	6614.5
62.5°	7012.0	7066.4	7351.2	7781.7	8162.7	8383.0	8095.6	7715.8	7255.0	6879.0	6841.1
65°	7086.7	7123.4	7557.6	8286.8	9065.3	9540.0	8875.4	8067.8	7281.6	6780.3	6755.0
67.5°	6482.8	6522.1	7106.9	8226.0	9698.3	10671.8	9381.8	7898.1	6830.9	6210.6	6161.3
70°	5014.3	5058.6	5781.5	7241.1	9557.7	11027.5	9021.0	6889.2	5633.4	4963.7	4873.8
72.5°	2666.0	2829.3	3447.1	4970.0	7757.6	9494.5	7396.8	5027.0	3633.2	2969.9	2850.9
75°	973.5	993.8	1338.1	2204.0	4513.0	6510.7	4686.5	2397.7	1378.6	1064.6	1010.2
77.5°	402.6	401.3	440.5	665.9	1639.4	3334.5	1829.3	703.9	439.3	406.4	401.3
80°	238.0	238.0	262.0	277.2	431.7	1006.4	482.3	313.9	263.3	240.5	244.3
82.5°	106.3	112.7	165.8	174.7	208.9	276.0	232.9	200.0	172.2	119.0	107.6
85°	58.2	50.6	87.3	91.1	100.0	102.5	110.1	108.9	100.0	58.2	59.5
87.5°	11.4	13.9	25.3	19.0	21.5	19.0	25.3	35.4	36.7	20.3	16.5
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)