

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: P454397

Luminaire Tested: **GALN-SA5C-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454397  
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-SA5C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33558 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

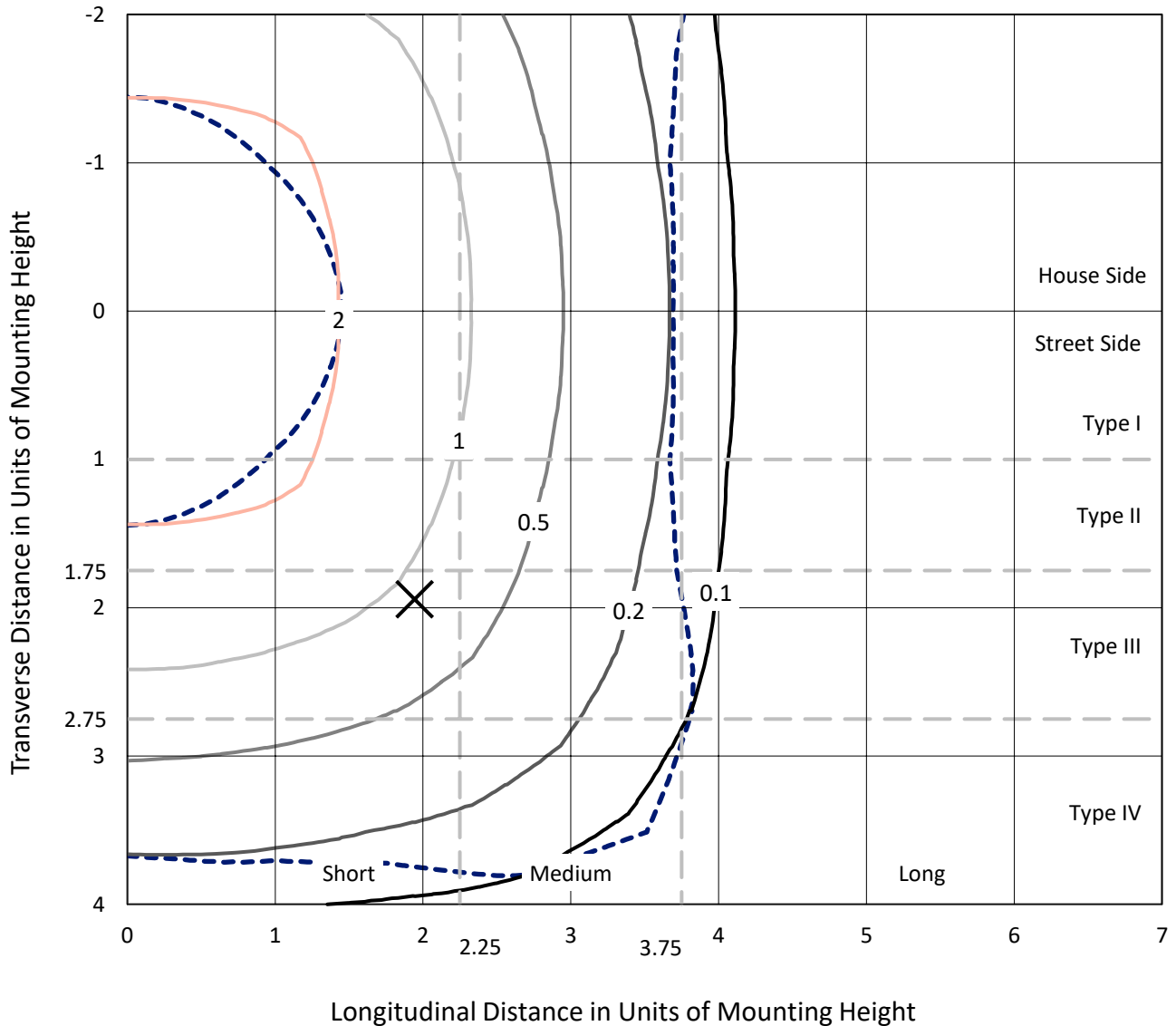
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

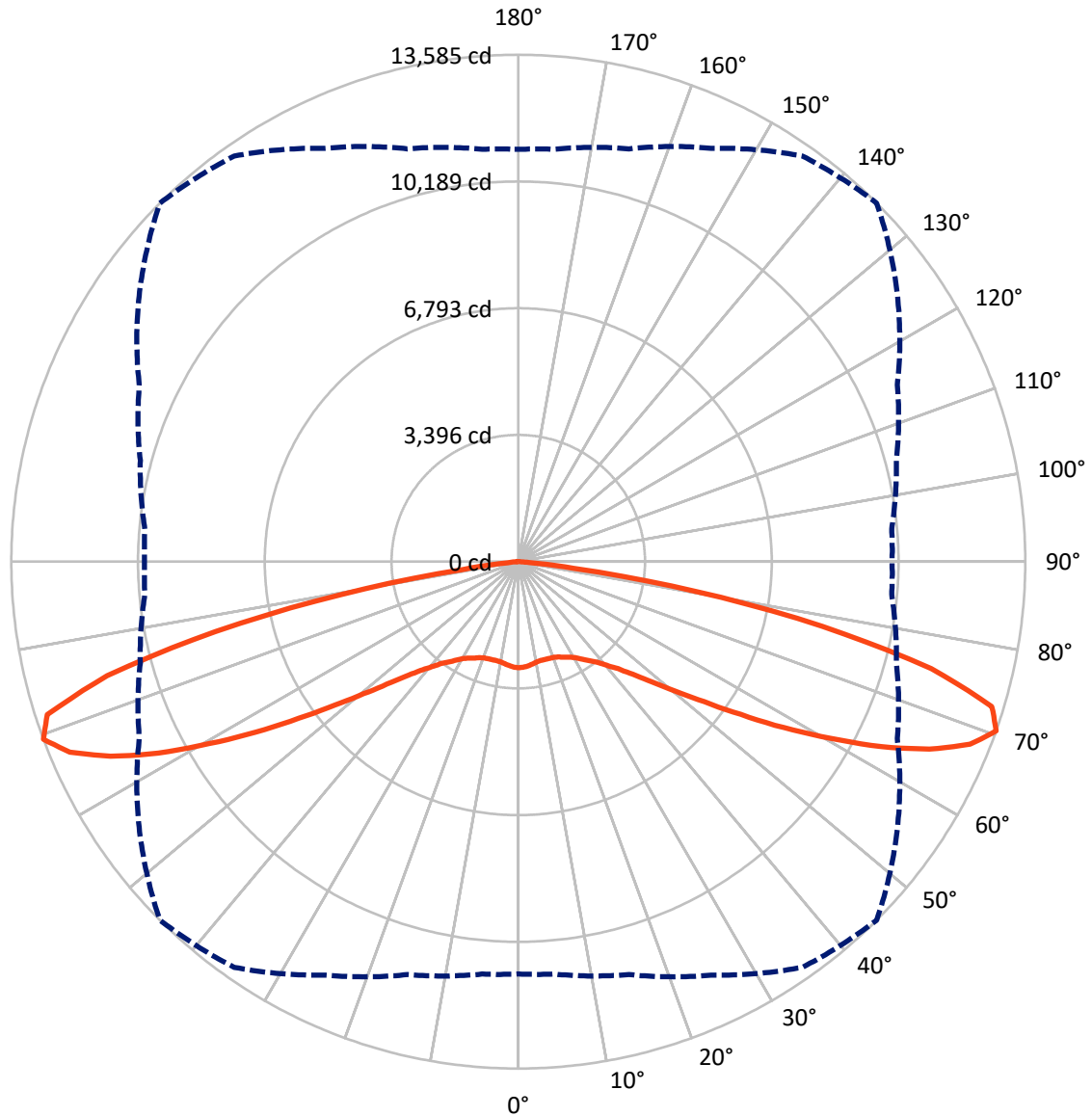
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	16779.0	0.0	16779.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16779.0	0.0	16779.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33558.0	0.0	33558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.7	0.8
10°-20°	777.8	2.3
20°-30°	1325.3	3.9
30°-40°	2054.1	6.1
40°-50°	3457.4	10.3
50°-60°	6290.6	18.7
60°-70°	10649.8	31.7
70°-80°	8243.4	24.6
80°-90°	493.9	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°	33558.0	100.0
0°-180°	33558.0	100.0

**Coefficient of Utilization**



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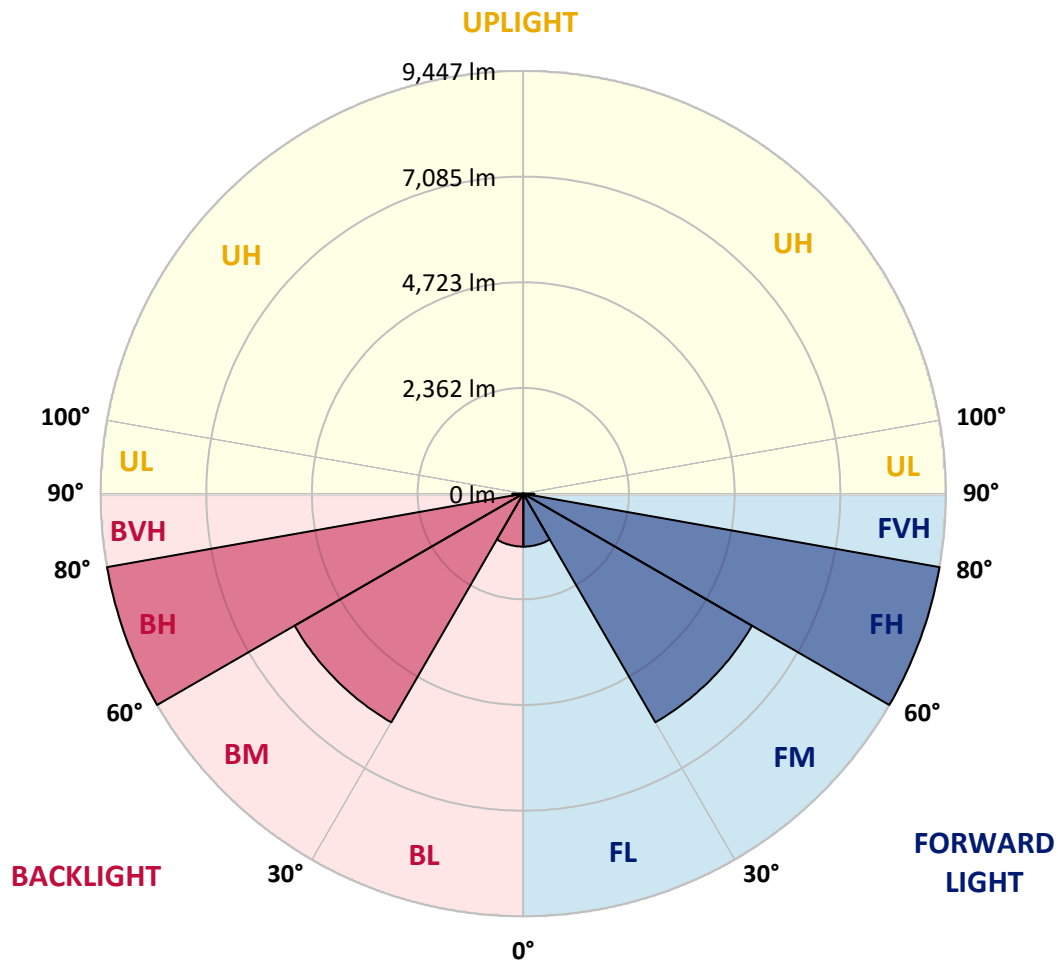
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1184.4	3.5			
FM	(30°-60°)	5901.1	17.6			
FH	(60°-80°)	9446.6	28.1			G4/12000
FVH	(80°-90°)	247.0	0.7			G3/500
BL	(0°-30°)	1184.4	3.5	B3/2500		
BM	(30°-60°)	5901.1	17.6	B4/8500		
BH	(60°-80°)	9446.6	28.1	B5		G4/12000
BVH	(80°-90°)	247.0	0.7			G3/500
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°	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1
2.5°	2834.0	2835.8	2835.8	2832.2	2830.5	2830.5	2828.7	2828.7	2834.0	2835.8	2837.6
5°	2809.2	2809.2	2809.2	2807.4	2803.9	2803.9	2800.3	2800.3	2802.1	2807.4	2803.9
7.5°	2775.5	2779.1	2779.1	2772.0	2766.7	2766.7	2764.9	2766.7	2768.4	2773.7	2772.0
10°	2764.9	2766.7	2757.8	2745.4	2736.5	2731.2	2733.0	2736.5	2745.4	2748.9	2750.7
12.5°	2772.0	2772.0	2756.0	2738.3	2722.3	2715.3	2713.5	2725.9	2741.8	2752.5	2756.0
15°	2780.8	2777.3	2757.8	2734.8	2718.8	2717.0	2715.3	2724.1	2747.2	2768.4	2770.2
17.5°	2786.2	2784.4	2759.6	2731.2	2722.3	2722.3	2720.6	2727.7	2752.5	2779.1	2780.8
20°	2803.9	2798.6	2770.2	2740.1	2733.0	2736.5	2731.2	2740.1	2766.7	2798.6	2805.6
22.5°	2839.3	2834.0	2805.6	2775.5	2772.0	2772.0	2770.2	2779.1	2807.4	2841.1	2846.4
25°	2881.9	2876.5	2850.0	2828.7	2832.2	2839.3	2835.8	2837.6	2860.6	2888.9	2897.8
27.5°	2938.6	2929.7	2906.7	2888.9	2899.6	2899.6	2899.6	2897.8	2912.0	2938.6	2947.4
30°	3007.7	3004.2	2979.3	2977.6	2986.4	2977.6	2977.6	2979.3	2981.1	3005.9	3014.8
32.5°	3098.1	3091.0	3078.6	3075.0	3099.9	3106.9	3082.1	3059.1	3071.5	3096.3	3101.6
35°	3247.0	3236.3	3218.6	3199.1	3218.6	3252.3	3199.1	3181.4	3213.3	3247.0	3250.5
37.5°	3449.0	3443.7	3415.3	3379.9	3378.1	3413.6	3358.6	3356.9	3417.1	3457.9	3463.2
40°	3702.5	3707.8	3672.3	3638.7	3620.9	3649.3	3606.8	3622.7	3681.2	3727.3	3723.7
42.5°	4058.7	4039.2	3984.3	3952.4	3932.9	3922.2	3911.6	3936.4	4002.0	4051.6	4090.6
45°	4475.2	4468.1	4399.0	4360.0	4317.5	4301.5	4298.0	4342.3	4422.0	4482.3	4487.6
47.5°	4946.7	4930.7	4886.4	4845.6	4829.7	4810.2	4792.5	4826.1	4905.9	4948.4	4960.8
50°	5432.3	5435.8	5435.8	5428.7	5444.7	5448.2	5400.4	5412.8	5457.1	5453.6	5450.0
52.5°	5987.0	6006.5	6098.7	6107.6	6183.8	6235.2	6148.3	6096.9	6081.0	5985.3	5992.4
55°	6639.3	6657.0	6795.2	6933.5	7139.1	7225.9	7043.4	6883.9	6770.4	6625.1	6632.2
57.5°	7452.8	7461.6	7592.8	7858.7	8184.8	8388.6	8067.8	7752.3	7521.9	7383.7	7328.7
60°	8328.3	8337.2	8528.6	8852.9	9359.8	9608.0	9211.0	8695.2	8404.5	8193.6	8207.8
62.5°	9379.3	9414.8	9586.7	10033.3	10648.3	10926.6	10400.2	9710.8	9317.3	9055.0	9065.6
65°	10504.8	10565.0	10752.9	11243.9	11811.0	12110.5	11465.4	10669.6	10180.4	9859.6	9893.3
67.5°	11235.0	11288.2	11559.3	12101.7	12808.9	13057.0	12224.0	11297.0	10685.6	10302.7	10231.8
70°	11048.9	11093.2	11454.8	12224.0	13271.4	13585.2	12404.8	11204.9	10485.3	10044.0	10015.6
72.5°	9753.3	9661.1	10189.3	11293.5	12743.3	13269.7	11835.8	10233.6	9327.9	8874.2	8821.0
75°	6463.8	6664.1	7443.9	8744.8	10781.3	11433.5	10102.5	8216.7	7077.0	6699.5	6641.0
77.5°	2160.5	2314.7	3007.7	4957.3	7350.0	8330.1	7360.6	5373.8	3801.7	3062.6	3076.8
80°	572.5	565.4	732.0	1362.9	3176.1	4824.4	3697.1	1820.2	996.1	721.4	684.1
82.5°	205.6	230.4	296.0	377.5	841.9	1499.4	1058.1	510.4	374.0	276.5	267.6
85°	90.4	88.6	127.6	150.7	210.9	280.0	248.1	216.2	189.6	125.8	117.0
87.5°	19.5	19.5	30.1	23.0	37.2	37.2	46.1	54.9	56.7	37.2	30.1
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)