

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: P459037

Luminaire Tested: **GALN-SA5C-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459037  
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-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 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: 34326 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

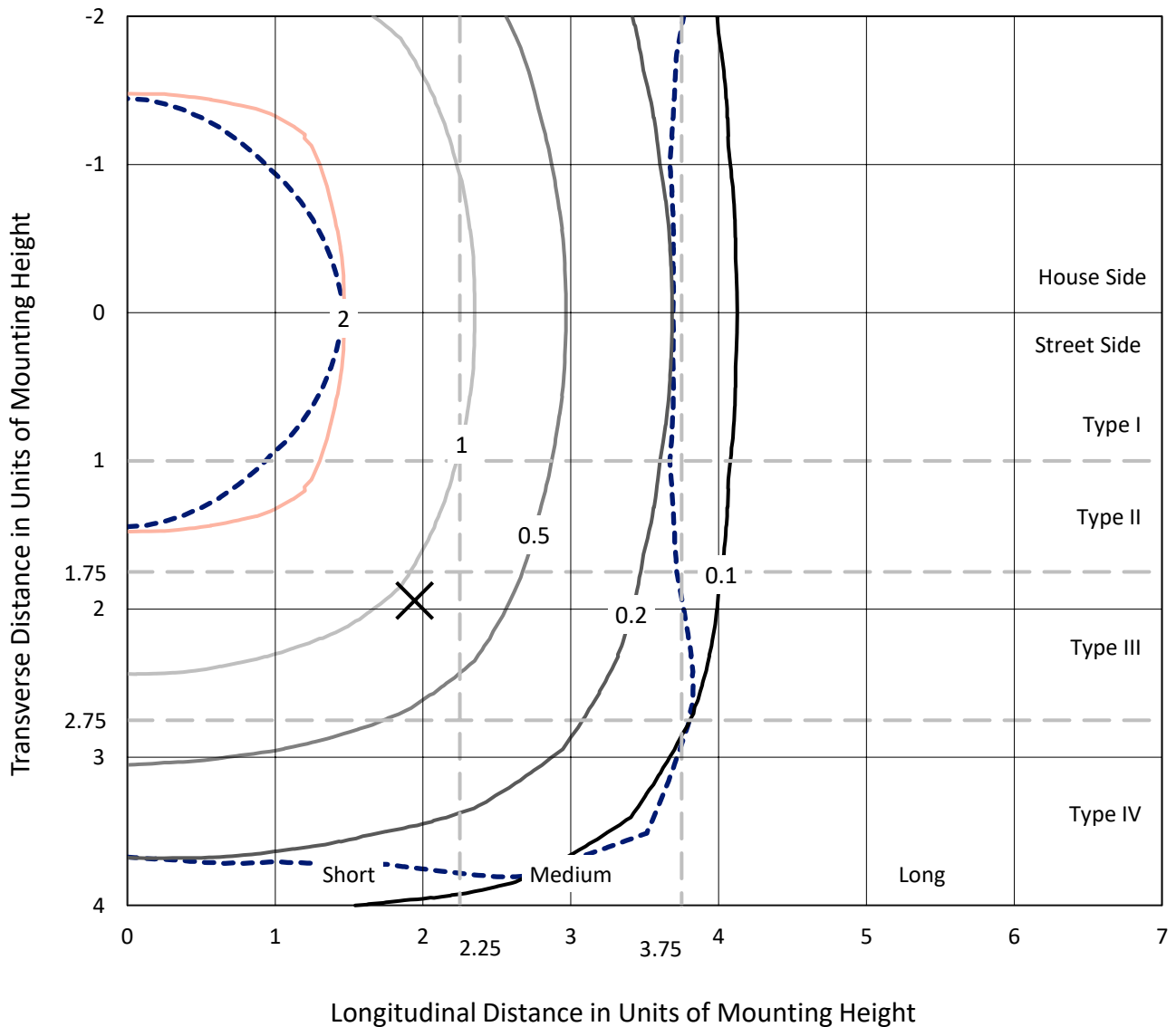
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

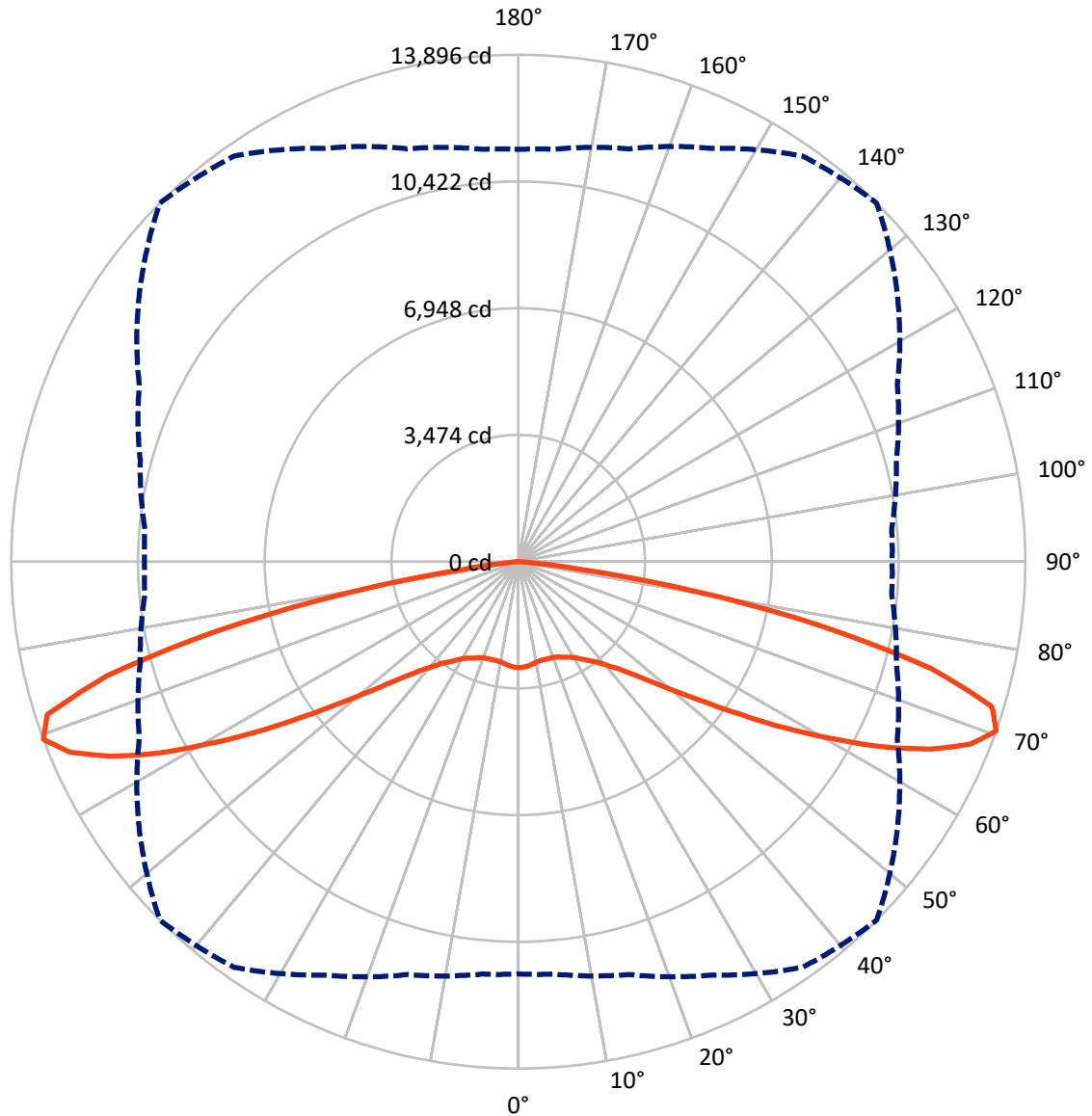
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	17163.0	0.0	17163.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17163.0	0.0	17163.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34326.0	0.0	34326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.8	0.8
10°-20°	795.6	2.3
20°-30°	1355.6	3.9
30°-40°	2101.1	6.1
40°-50°	3536.5	10.3
50°-60°	6434.5	18.7
60°-70°	10893.5	31.7
70°-80°	8432.0	24.6
80°-90°	505.3	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°	34326.0	100.0
0°-180°	34326.0	100.0

**Coefficient of Utilization**



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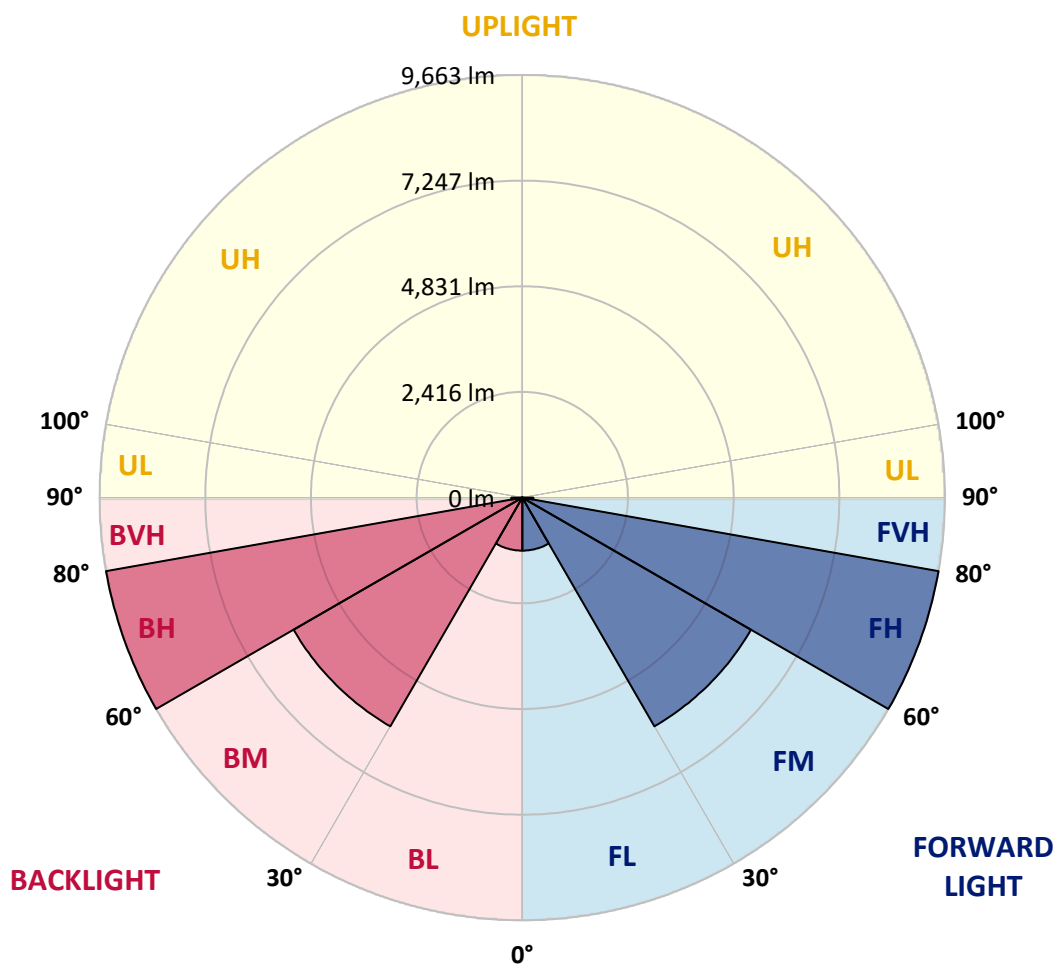
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.5	3.5			
FM (30°-60°)	6036.1	17.6			
FH (60°-80°)	9662.8	28.1			G4/12000
FVH (80°-90°)	252.6	0.7			G3/500
BL (0°-30°)	1211.5	3.5	B3/2500		
BM (30°-60°)	6036.1	17.6	B4/8500		
BH (60°-80°)	9662.8	28.1	B5		G4/12000
BVH (80°-90°)	252.6	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°	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1	2906.1
2.5°	2898.9	2900.7	2900.7	2897.1	2895.2	2895.2	2893.4	2893.4	2898.9	2900.7	2902.5
5°	2873.5	2873.5	2873.5	2871.7	2868.0	2868.0	2864.4	2864.4	2866.2	2871.7	2868.0
7.5°	2839.0	2842.7	2842.7	2835.4	2830.0	2830.0	2828.2	2830.0	2831.8	2837.2	2835.4
10°	2828.2	2830.0	2820.9	2808.2	2799.2	2793.7	2795.5	2799.2	2808.2	2811.8	2813.7
12.5°	2835.4	2835.4	2819.1	2801.0	2784.7	2777.4	2775.6	2788.3	2804.6	2815.5	2819.1
15°	2844.5	2840.9	2820.9	2797.3	2781.0	2779.2	2777.4	2786.5	2810.0	2831.8	2833.6
17.5°	2849.9	2848.1	2822.7	2793.7	2784.7	2784.7	2782.8	2790.1	2815.5	2842.7	2844.5
20°	2868.0	2862.6	2833.6	2802.8	2795.5	2799.2	2793.7	2802.8	2830.0	2862.6	2869.9
22.5°	2904.3	2898.9	2869.9	2839.0	2835.4	2835.4	2833.6	2842.7	2871.7	2906.1	2911.6
25°	2947.8	2942.4	2915.2	2893.4	2897.1	2904.3	2900.7	2902.5	2926.1	2955.1	2964.1
27.5°	3005.8	2996.8	2973.2	2955.1	2965.9	2965.9	2965.9	2964.1	2978.6	3005.8	3014.9
30°	3076.5	3072.9	3047.5	3045.7	3054.8	3045.7	3045.7	3047.5	3049.3	3074.7	3083.8
32.5°	3169.0	3161.7	3149.0	3145.4	3170.8	3178.1	3152.7	3129.1	3141.8	3167.2	3172.6
35°	3321.3	3310.4	3292.3	3272.3	3292.3	3326.7	3272.3	3254.2	3286.8	3321.3	3324.9
37.5°	3527.9	3522.5	3493.5	3457.2	3455.4	3491.7	3435.5	3433.7	3495.3	3537.0	3542.5
40°	3787.2	3792.6	3756.4	3721.9	3703.8	3732.8	3689.3	3705.6	3765.4	3812.6	3809.0
42.5°	4151.6	4131.7	4075.5	4042.8	4022.9	4012.0	4001.1	4026.5	4093.6	4144.3	4184.2
45°	4577.6	4570.4	4499.7	4459.8	4416.3	4400.0	4396.3	4441.7	4523.2	4584.9	4590.3
47.5°	5059.9	5043.6	4998.2	4956.5	4940.2	4920.3	4902.1	4936.6	5018.2	5061.7	5074.4
50°	5556.6	5560.2	5560.2	5553.0	5569.3	5572.9	5524.0	5536.7	5582.0	5578.4	5574.7
52.5°	6124.1	6144.0	6238.3	6247.3	6325.3	6377.9	6289.0	6236.5	6220.1	6122.2	6129.5
55°	6791.2	6809.3	6950.7	7092.2	7302.5	7391.3	7204.6	7041.4	6925.4	6776.7	6784.0
57.5°	7623.3	7632.4	7766.6	8038.5	8372.1	8580.6	8252.4	7929.7	7694.0	7552.6	7496.4
60°	8518.9	8528.0	8723.8	9055.6	9574.0	9827.9	9421.8	8894.2	8596.9	8381.1	8395.6
62.5°	9594.0	9630.2	9806.1	10263.0	10892.0	11176.7	10638.2	9933.0	9530.5	9262.2	9273.1
65°	10745.2	10806.8	10999.0	11501.2	12081.3	12387.7	11727.8	10913.8	10413.4	10085.3	10119.7
67.5°	11492.1	11546.5	11823.9	12378.6	13102.0	13355.8	12503.7	11555.6	10930.1	10538.5	10466.0
70°	11301.8	11347.1	11716.9	12503.7	13575.2	13896.1	12688.7	11461.3	10725.3	10273.8	10244.8
72.5°	9976.5	9882.2	10422.5	11551.9	13034.9	13573.4	12106.7	10467.8	9541.4	9077.3	9022.9
75°	6611.7	6816.6	7614.3	8945.0	11028.0	11695.2	10333.7	8404.7	7239.0	6852.9	6793.0
77.5°	2210.0	2367.7	3076.5	5070.7	7518.2	8520.7	7529.1	5496.8	3888.7	3132.7	3147.2
80°	585.6	578.3	748.7	1394.1	3248.8	4934.8	3781.8	1861.9	1018.9	737.9	699.8
82.5°	210.3	235.7	302.8	386.2	861.1	1533.7	1082.3	522.1	382.5	282.8	273.8
85°	92.5	90.6	130.5	154.1	215.7	286.4	253.8	221.2	194.0	128.7	119.7
87.5°	19.9	19.9	30.8	23.6	38.1	38.1	47.1	56.2	58.0	38.1	30.8
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)