

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: P646986

Luminaire Tested: **GALN-SA6C-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646986  
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-SA6C-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 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: 34164.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

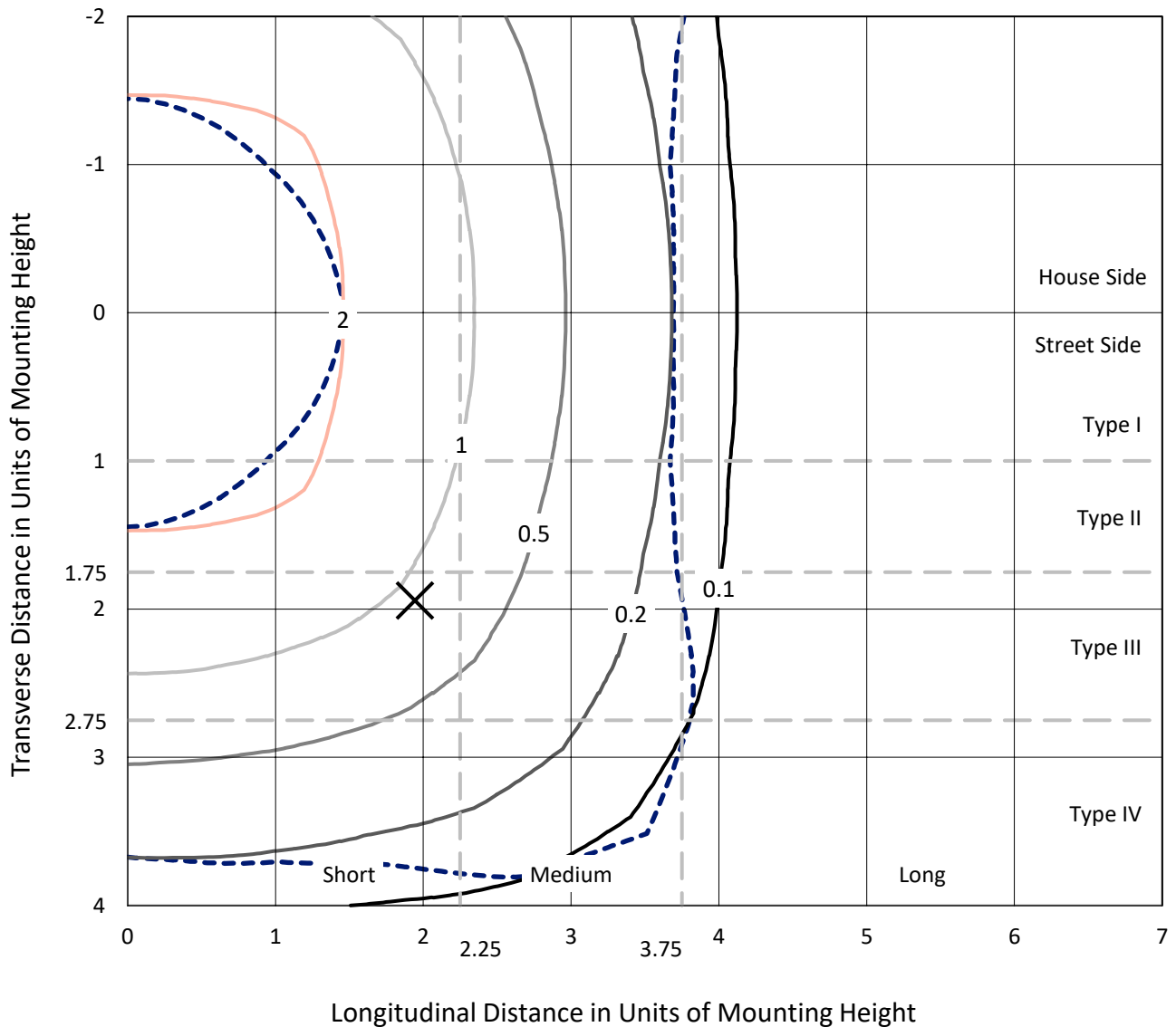
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

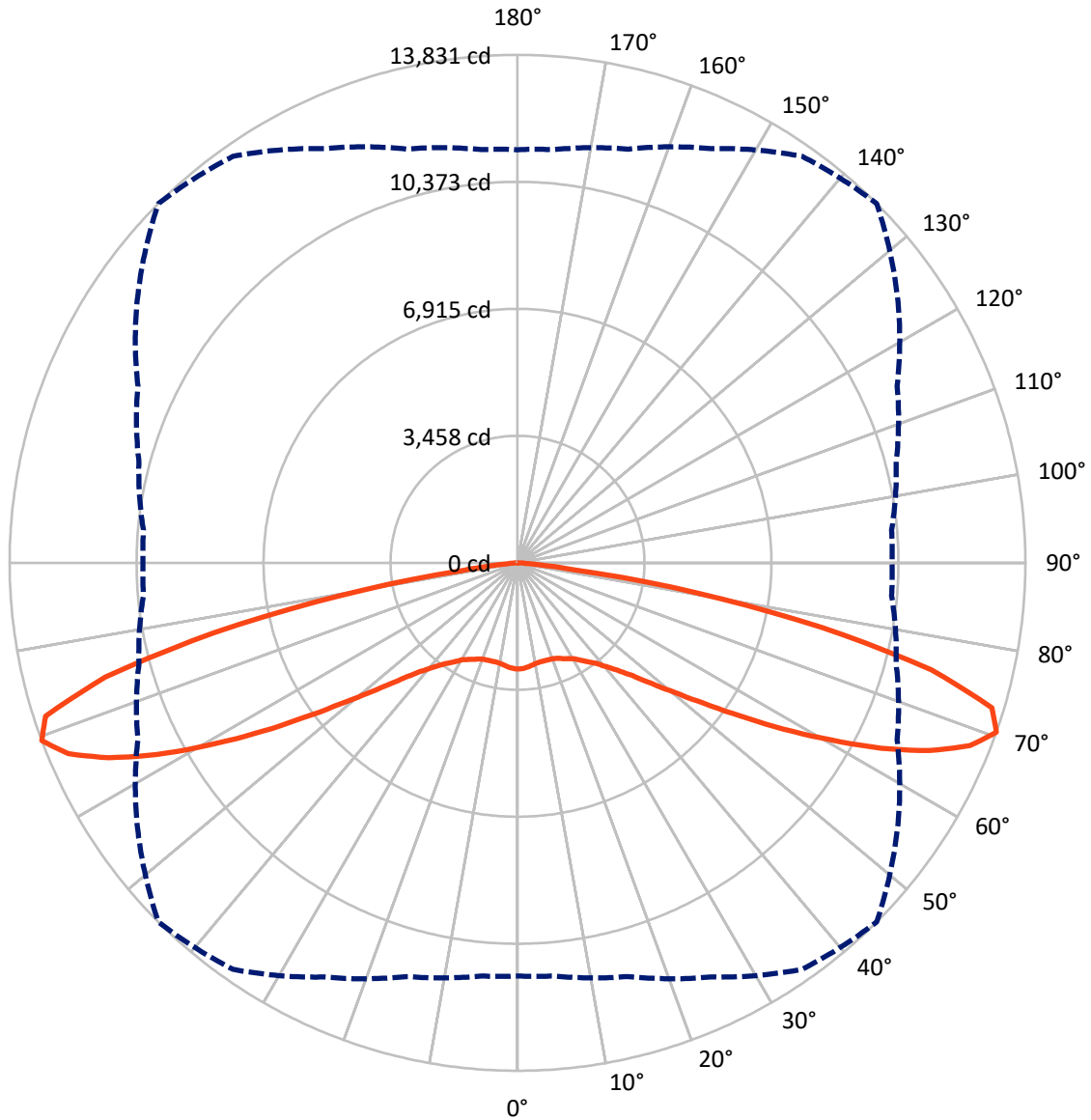
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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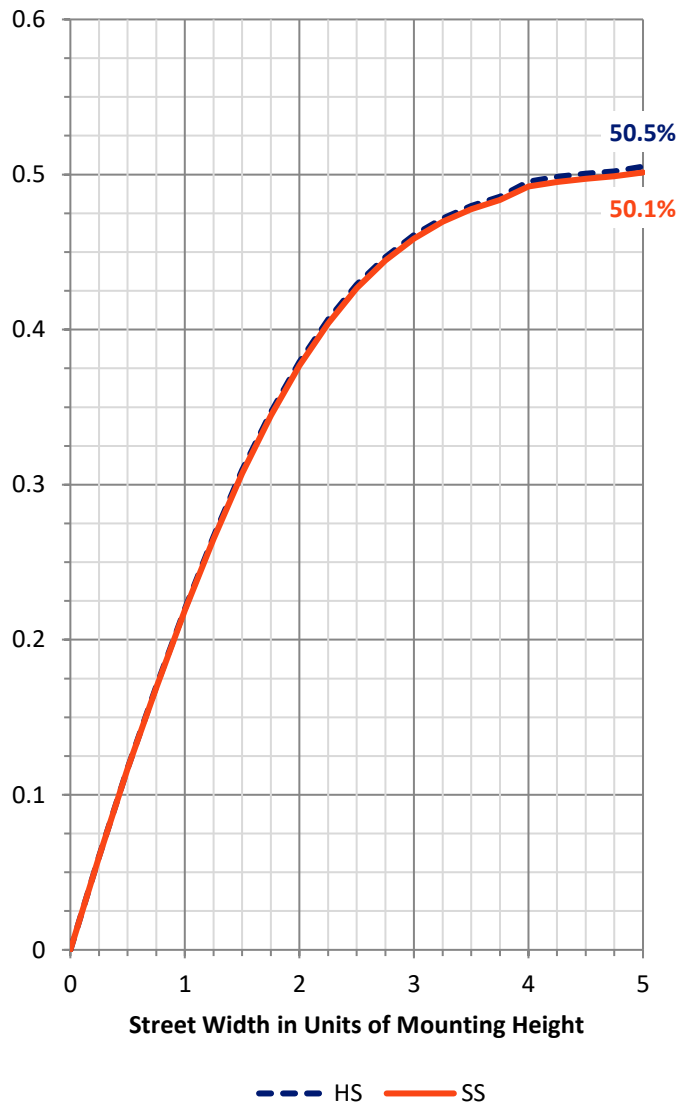
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17082.3	0.0	17082.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17082.3	0.0	17082.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34164.7	0.0	34164.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.5	0.8
10°-20°	791.9	2.3
20°-30°	1349.2	3.9
30°-40°	2091.3	6.1
40°-50°	3519.9	10.3
50°-60°	6404.3	18.7
60°-70°	10842.3	31.7
70°-80°	8392.4	24.6
80°-90°	502.9	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°	34164.7	100.0
0°-180°	34164.7	100.0

**Coefficient of Utilization**



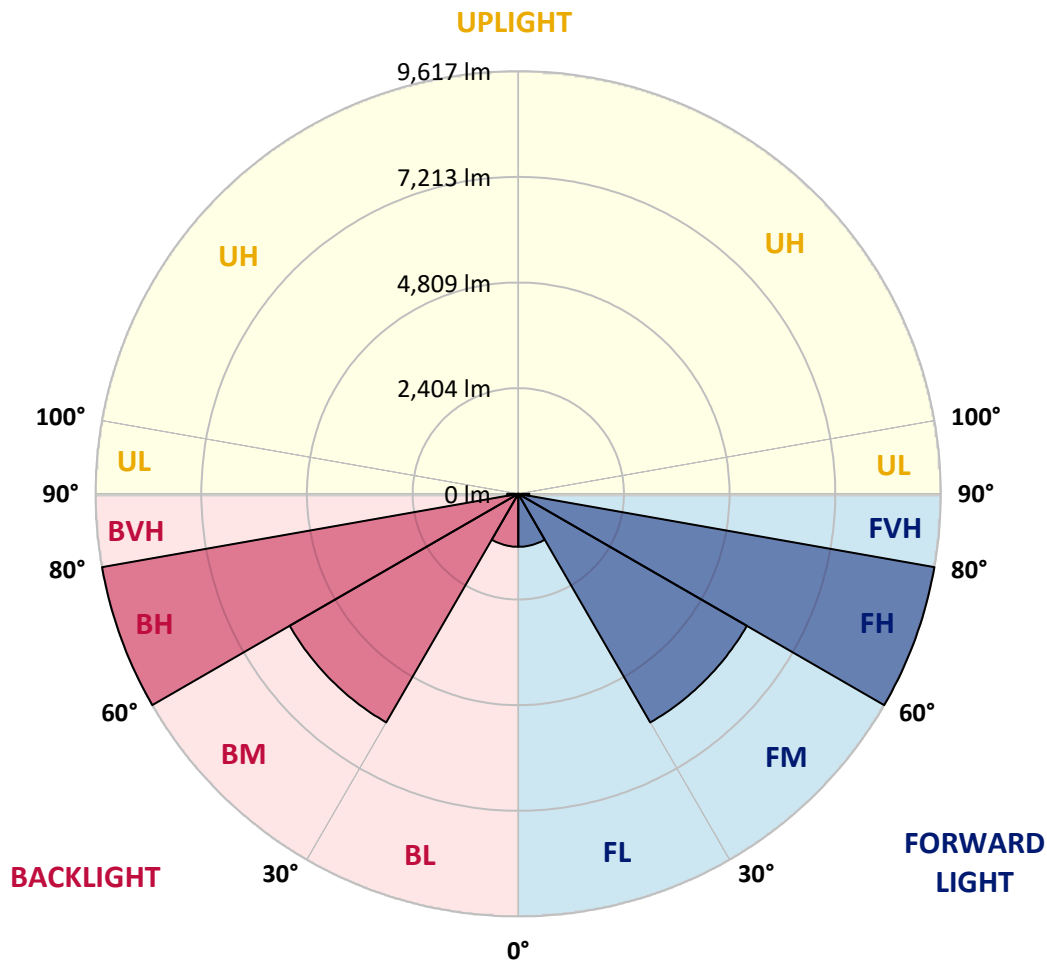
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.8	3.5			
FM (30°-60°)	6007.7	17.6			
FH (60°-80°)	9617.3	28.1			G4/12000
FVH (80°-90°)	251.4	0.7			G3/500
BL (0°-30°)	1205.8	3.5	B3/2500		
BM (30°-60°)	6007.7	17.6	B4/8500		
BH (60°-80°)	9617.3	28.1	B5		G4/12000
BVH (80°-90°)	251.4	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°	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5
2.5°	2885.2	2887.1	2887.1	2883.4	2881.6	2881.6	2879.8	2879.8	2885.2	2887.1	2888.9
5°	2860.0	2860.0	2860.0	2858.2	2854.6	2854.6	2851.0	2851.0	2852.8	2858.2	2854.6
7.5°	2825.7	2829.3	2829.3	2822.1	2816.7	2816.7	2814.9	2816.7	2818.5	2823.9	2822.1
10°	2814.9	2816.7	2807.7	2795.0	2786.0	2780.6	2782.4	2786.0	2795.0	2798.6	2800.4
12.5°	2822.1	2822.1	2805.9	2787.8	2771.6	2764.4	2762.5	2775.2	2791.4	2802.2	2805.9
15°	2831.1	2827.5	2807.7	2784.2	2768.0	2766.2	2764.4	2773.4	2796.8	2818.5	2820.3
17.5°	2836.5	2834.7	2809.5	2780.6	2771.6	2771.6	2769.8	2777.0	2802.2	2829.3	2831.1
20°	2854.6	2849.2	2820.3	2789.6	2782.4	2786.0	2780.6	2789.6	2816.7	2849.2	2856.4
22.5°	2890.7	2885.2	2856.4	2825.7	2822.1	2822.1	2820.3	2829.3	2858.2	2892.5	2897.9
25°	2934.0	2928.6	2901.5	2879.8	2883.4	2890.7	2887.1	2888.9	2912.3	2941.2	2950.2
27.5°	2991.7	2982.7	2959.2	2941.2	2952.0	2952.0	2952.0	2950.2	2964.6	2991.7	3000.7
30°	3062.1	3058.5	3033.2	3031.4	3040.4	3031.4	3031.4	3033.2	3035.0	3060.3	3069.3
32.5°	3154.1	3146.9	3134.3	3130.7	3155.9	3163.1	3137.9	3114.4	3127.0	3152.3	3157.7
35°	3305.7	3294.9	3276.8	3257.0	3276.8	3311.1	3257.0	3238.9	3271.4	3305.7	3309.3
37.5°	3511.4	3506.0	3477.1	3441.0	3439.2	3475.3	3419.4	3417.6	3478.9	3520.4	3525.8
40°	3769.4	3774.8	3738.7	3704.5	3686.4	3715.3	3672.0	3688.2	3747.8	3794.7	3791.1
42.5°	4132.0	4112.2	4056.3	4023.8	4003.9	3993.1	3982.3	4007.6	4074.3	4124.8	4164.5
45°	4556.1	4548.9	4478.5	4438.8	4395.5	4379.3	4375.6	4420.8	4502.0	4563.3	4568.7
47.5°	5036.1	5019.8	4974.7	4933.2	4917.0	4897.1	4879.1	4913.4	4994.6	5037.9	5050.5
50°	5530.5	5534.1	5534.1	5526.9	5543.1	5546.7	5498.0	5510.7	5555.8	5552.2	5548.5
52.5°	6095.3	6115.2	6209.0	6218.0	6295.6	6347.9	6259.5	6207.2	6190.9	6093.5	6100.7
55°	6759.3	6777.3	6918.0	7058.8	7268.1	7356.5	7170.7	7008.3	6892.8	6744.8	6752.0
57.5°	7587.5	7596.5	7730.1	8000.7	8332.7	8540.3	8213.7	7892.5	7657.9	7517.1	7461.2
60°	8478.9	8487.9	8682.8	9013.0	9529.0	9781.6	9377.4	8852.4	8556.5	8341.8	8356.2
62.5°	9548.9	9585.0	9760.0	10214.7	10840.9	11124.2	10588.2	9886.3	9485.7	9218.7	9229.5
65°	10694.7	10756.1	10947.3	11447.1	12024.5	12329.5	11672.7	10862.5	10364.5	10037.9	10072.2
67.5°	11438.1	11492.2	11768.3	12320.4	13040.4	13293.0	12444.9	11501.3	10878.8	10489.0	10416.8
70°	11248.7	11293.8	11661.8	12444.9	13511.4	13830.8	12629.0	11407.4	10674.9	10225.5	10196.7
72.5°	9929.6	9835.8	10373.5	11497.7	12973.6	13509.6	12049.8	10418.6	9496.5	9034.6	8980.5
75°	6580.6	6784.5	7578.5	8902.9	10976.2	11640.2	10285.1	8365.2	7205.0	6820.6	6761.1
77.5°	2199.6	2356.5	3062.1	5046.9	7482.8	8480.7	7493.7	5471.0	3870.4	3118.0	3132.5
80°	582.8	575.6	745.2	1387.6	3233.5	4911.6	3764.0	1853.1	1014.1	734.4	696.5
82.5°	209.3	234.6	301.3	384.4	857.1	1526.5	1077.3	519.7	380.7	281.5	272.5
85°	92.0	90.2	129.9	153.4	214.7	285.1	252.6	220.1	193.1	128.1	119.1
87.5°	19.8	19.8	30.7	23.5	37.9	37.9	46.9	55.9	57.7	37.9	30.7
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)