

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: P648465

Luminaire Tested: **GALN-SA6B-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648465  
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-SA6B-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27709.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

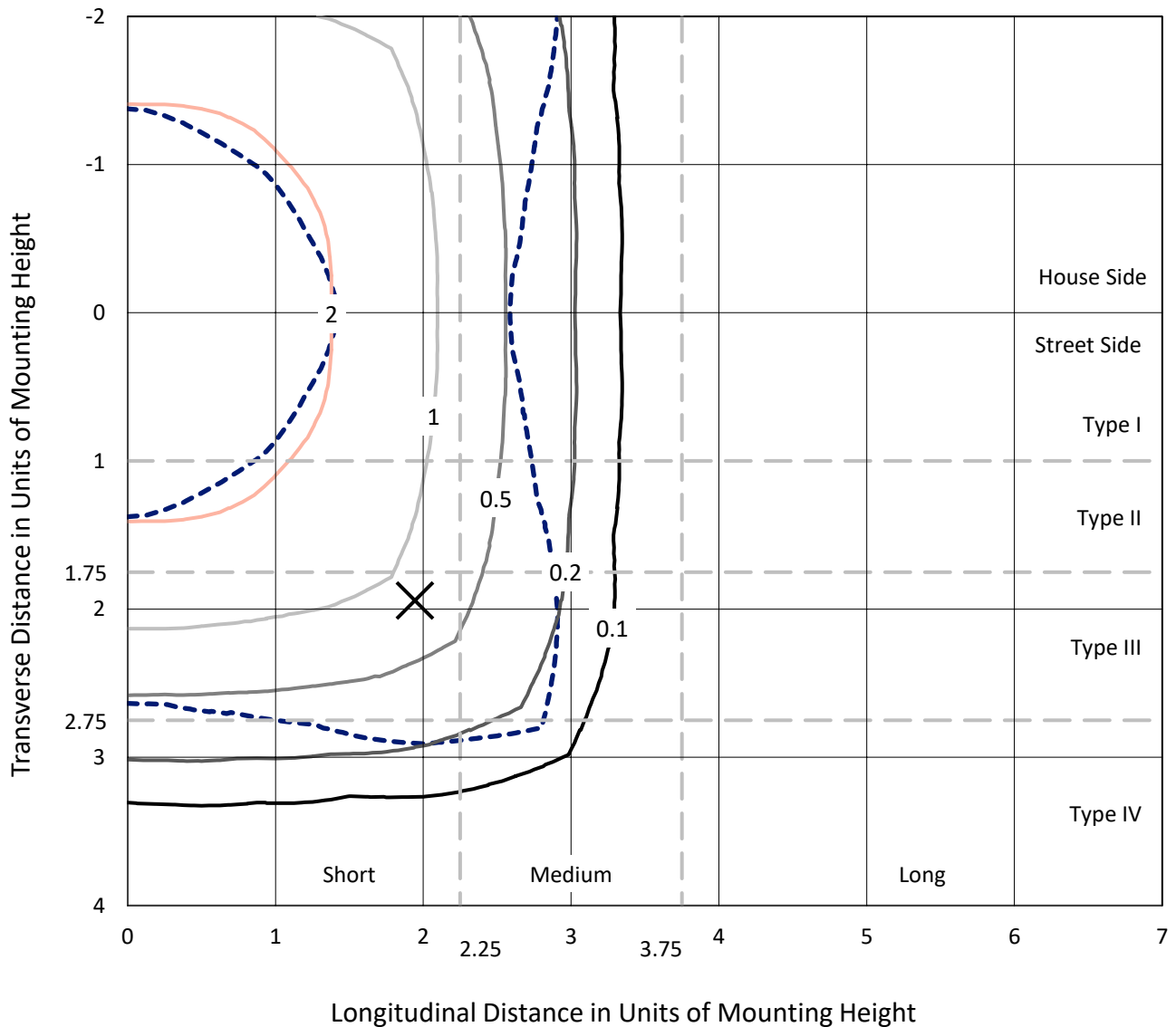
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

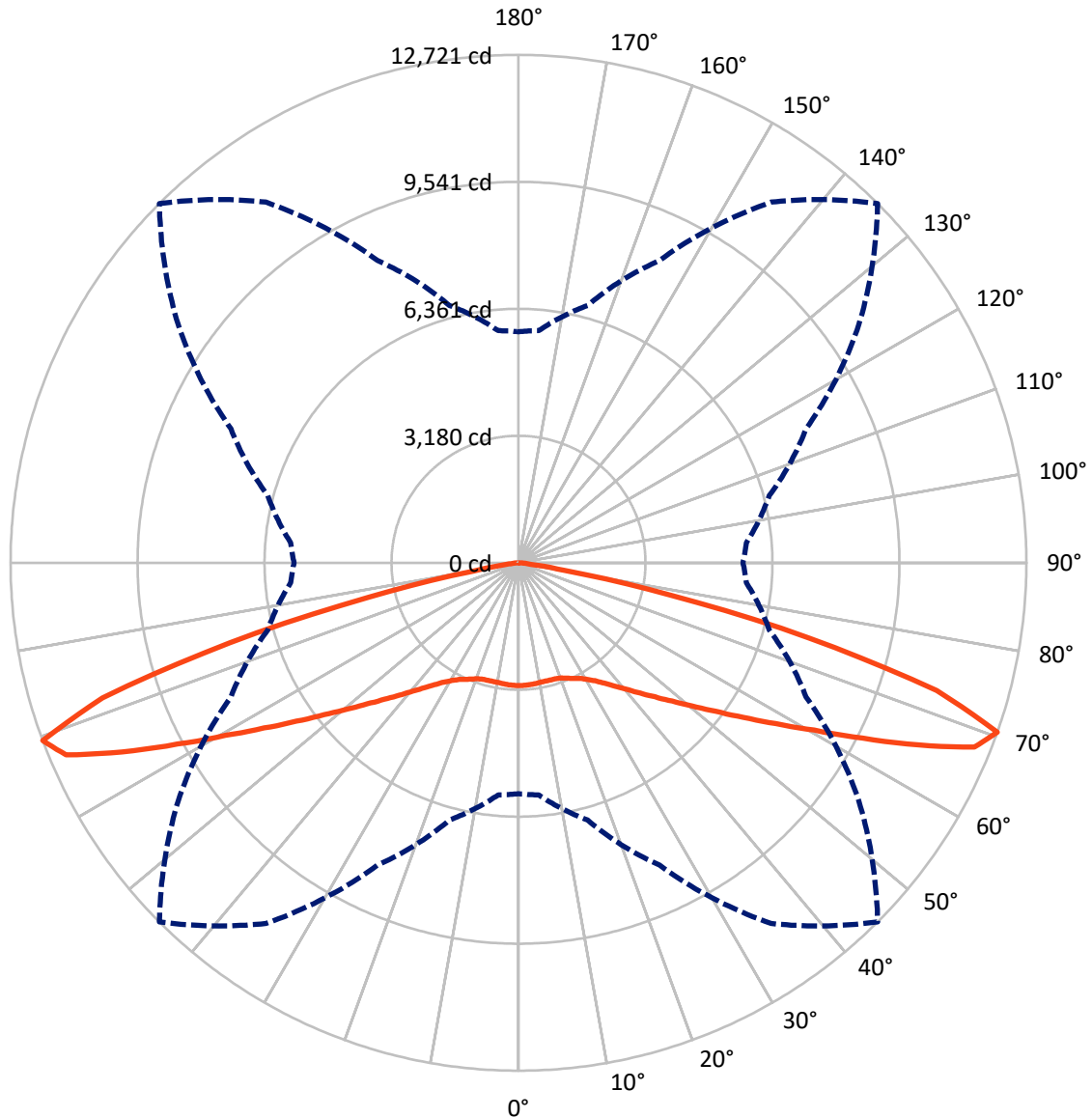
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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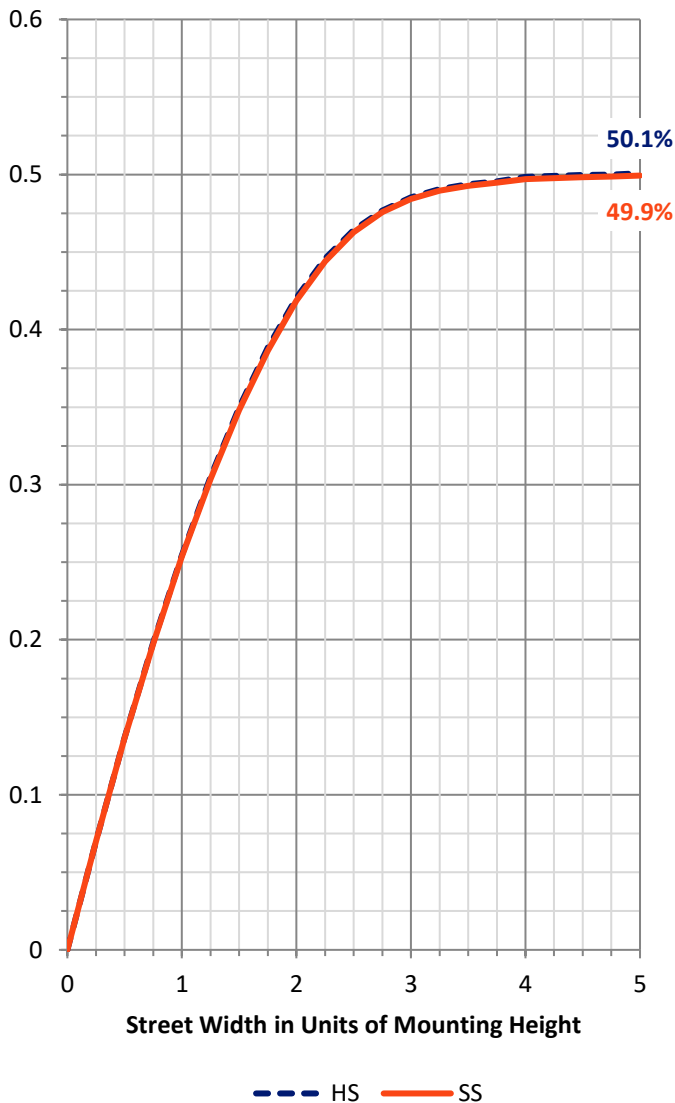
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13854.8	0.0	13854.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13854.8	0.0	13854.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27709.6	0.0	27709.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.8	1.1
10°-20°	856.2	3.1
20°-30°	1464.4	5.3
30°-40°	2324.4	8.4
40°-50°	3749.8	13.5
50°-60°	6101.0	22.0
60°-70°	8844.3	31.9
70°-80°	3923.0	14.2
80°-90°	154.7	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°	27709.6	100.0
0°-180°	27709.6	100.0



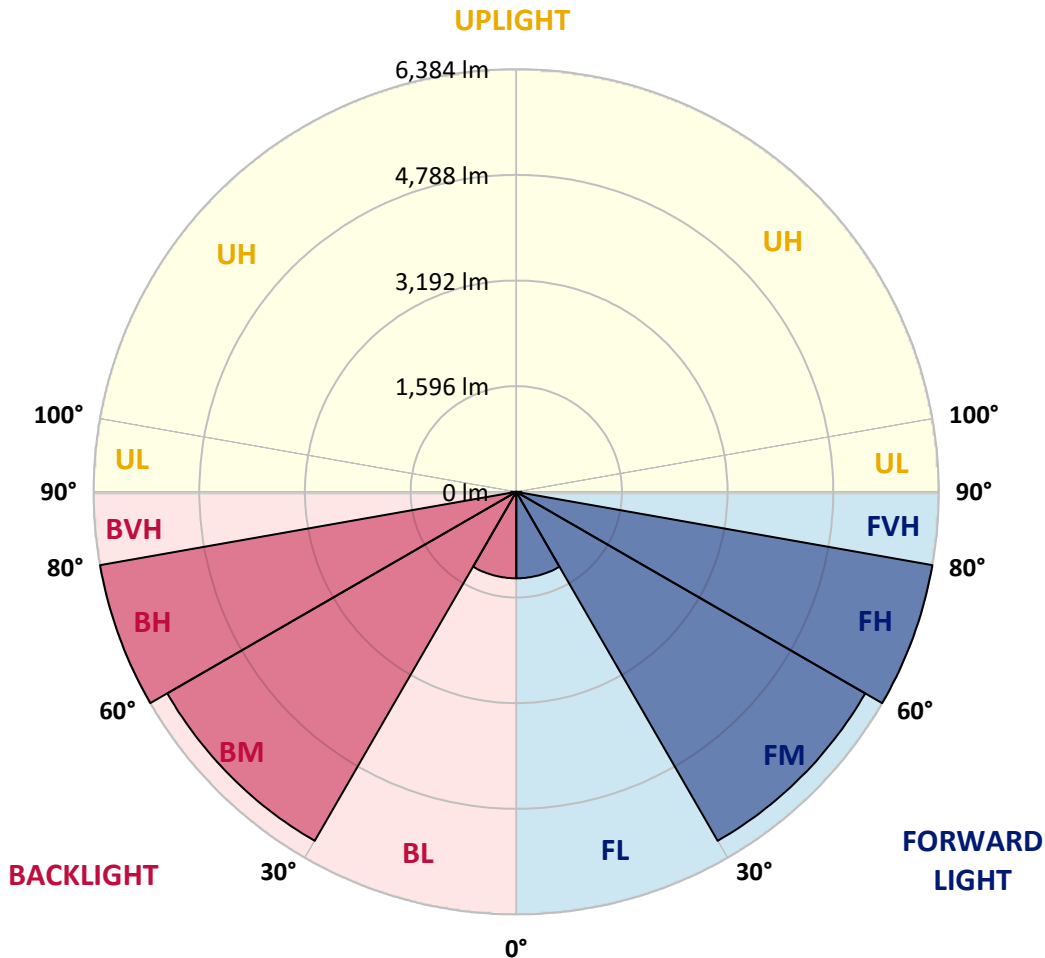
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.2	4.7			
FM (30°-60°)	6087.6	22.0			
FH (60°-80°)	6383.6	23.0			G3/7500
FVH (80°-90°)	77.4	0.3			G1/100
BL (0°-30°)	1306.2	4.7	B3/2500		
BM (30°-60°)	6087.6	22.0	B4/8500		
BH (60°-80°)	6383.6	23.0	B5		G3/7500
BVH (80°-90°)	77.4	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°	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0	3077.0
2.5°	3077.0	3079.9	3075.5	3072.6	3071.2	3071.2	3069.8	3071.2	3079.9	3081.4	3077.0
5°	3068.3	3071.2	3069.8	3066.8	3065.4	3065.4	3063.9	3062.4	3069.8	3072.6	3071.2
7.5°	3056.6	3058.0	3056.6	3055.1	3056.6	3055.1	3050.7	3047.8	3053.6	3053.6	3052.2
10°	3036.2	3039.1	3037.6	3039.1	3042.0	3042.0	3036.2	3030.3	3031.8	3028.8	3028.8
12.5°	3011.3	3015.6	3017.1	3023.0	3030.3	3039.1	3025.9	3012.7	3009.9	3008.4	3007.0
15°	2995.2	2999.6	3005.5	3011.3	3024.4	3043.4	3024.4	3004.0	2998.2	2992.3	2989.4
17.5°	2990.8	2996.7	3005.5	3014.2	3031.8	3050.7	3034.7	3014.2	2999.6	2990.8	2987.9
20°	3002.6	3007.0	3020.0	3036.2	3061.0	3079.9	3063.9	3042.0	3020.0	3007.0	3002.6
22.5°	3025.9	3033.2	3049.2	3078.4	3113.5	3141.2	3119.4	3082.8	3047.8	3030.3	3024.4
25°	3077.0	3082.8	3101.9	3141.2	3182.2	3208.4	3185.1	3142.7	3094.6	3071.2	3063.9
27.5°	3154.4	3163.2	3183.6	3230.3	3263.9	3278.6	3262.5	3233.2	3198.2	3173.4	3167.5
30°	3263.9	3274.2	3304.8	3354.5	3376.4	3385.1	3377.9	3358.8	3334.0	3307.8	3301.9
32.5°	3411.5	3417.3	3452.3	3499.1	3519.5	3522.4	3513.6	3504.9	3464.0	3420.2	3417.3
35°	3576.4	3586.7	3629.0	3684.6	3703.5	3705.0	3687.5	3674.3	3626.2	3591.1	3591.1
37.5°	3795.5	3799.9	3840.8	3903.6	3924.0	3918.2	3909.4	3897.8	3846.6	3801.4	3802.8
40°	4052.6	4061.3	4096.3	4169.4	4169.4	4162.1	4167.9	4159.1	4108.0	4064.2	4065.7
42.5°	4357.8	4362.2	4404.5	4481.9	4476.1	4461.5	4467.3	4455.6	4423.5	4373.8	4356.3
45°	4683.4	4701.0	4774.0	4848.5	4836.7	4790.1	4813.4	4810.5	4781.3	4706.8	4711.2
47.5°	5076.3	5105.5	5175.6	5264.7	5251.5	5178.5	5204.8	5222.3	5181.4	5099.7	5085.0
50°	5518.7	5537.8	5641.4	5724.7	5713.0	5635.6	5695.5	5698.4	5596.2	5480.8	5480.8
52.5°	5990.5	6009.4	6149.7	6279.7	6286.9	6174.5	6222.7	6219.8	6053.3	5901.4	5872.2
55°	6519.1	6527.9	6709.0	6900.3	6941.2	6831.7	6837.5	6779.1	6562.9	6386.2	6370.2
57.5°	7065.3	7097.4	7297.5	7545.8	7667.0	7599.8	7569.2	7412.9	7204.1	7001.0	6990.9
60°	7669.9	7671.4	7931.3	8224.9	8470.2	8515.4	8389.8	8181.0	7910.9	7642.2	7630.5
62.5°	8089.0	8151.8	8480.4	8976.9	9416.5	9670.6	9339.2	8901.0	8369.4	7935.7	7891.9
65°	8175.2	8217.6	8718.5	9559.6	10457.7	11005.5	10238.7	9307.0	8400.1	7821.8	7792.6
67.5°	7478.6	7523.8	8198.6	9489.6	11188.0	12311.0	10822.9	9111.3	7880.2	7164.6	7107.7
70°	5784.6	5835.7	6669.5	8353.4	11025.9	12721.4	10406.7	7947.4	6498.7	5726.2	5622.5
72.5°	3075.5	3263.9	3976.6	5733.4	8949.2	10952.8	8533.0	5799.1	4191.3	3426.0	3288.8
75°	1123.1	1146.4	1543.6	2542.6	5206.2	7510.7	5406.3	2765.9	1590.4	1228.2	1165.4
77.5°	464.4	462.9	508.2	768.1	1891.2	3846.6	2110.3	812.0	506.8	468.8	462.9
80°	274.5	274.5	302.3	319.9	498.0	1161.0	556.4	362.1	303.7	277.5	281.9
82.5°	122.7	130.0	191.3	201.5	240.9	318.4	268.7	230.8	198.6	137.3	124.1
85°	67.2	58.4	100.8	105.2	115.3	118.3	127.1	125.6	115.3	67.2	68.7
87.5°	13.2	16.1	29.2	21.9	24.8	21.9	29.2	40.9	42.4	23.3	18.9
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)