

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: P648025

Luminaire Tested: **GALN-SA7A-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648025  
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-SA7A-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 26157.7 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

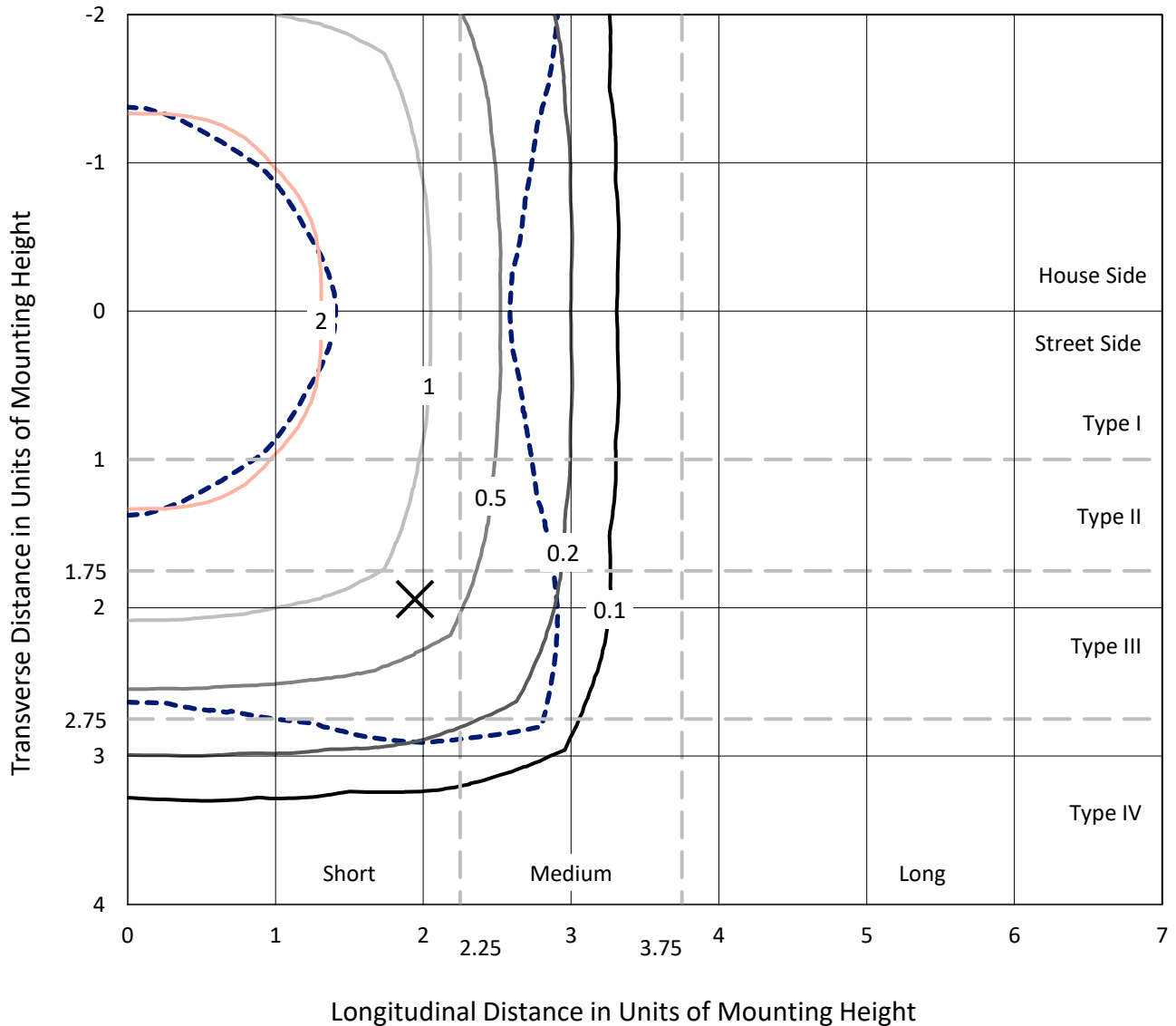
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

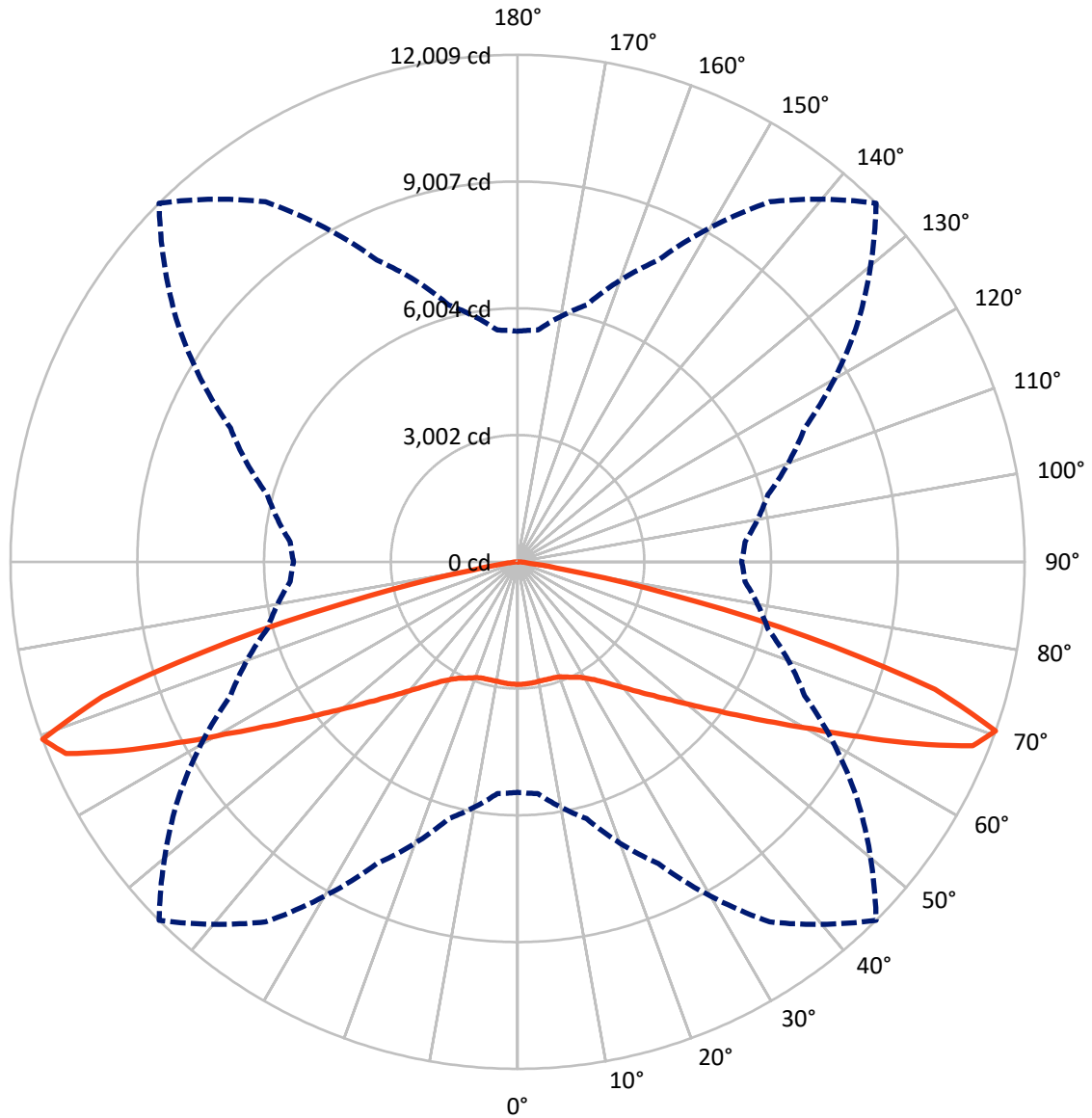
✕ Max cd  
 - - - 1/2 Max cd



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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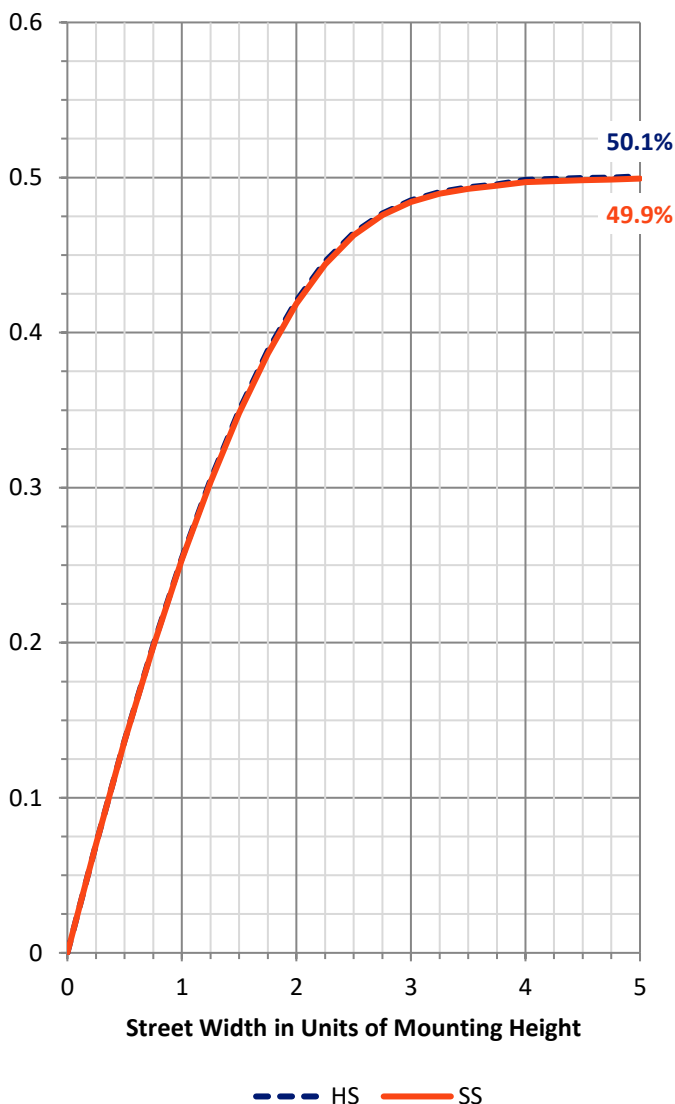
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13078.8	0.0	13078.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13078.8	0.0	13078.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26157.7	0.0	26157.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.4	1.1
10°-20°	808.3	3.1
20°-30°	1382.4	5.3
30°-40°	2194.2	8.4
40°-50°	3539.8	13.5
50°-60°	5759.3	22.0
60°-70°	8348.9	31.9
70°-80°	3703.3	14.2
80°-90°	146.1	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°	26157.7	100.0
0°-180°	26157.7	100.0

**Coefficient of Utilization**



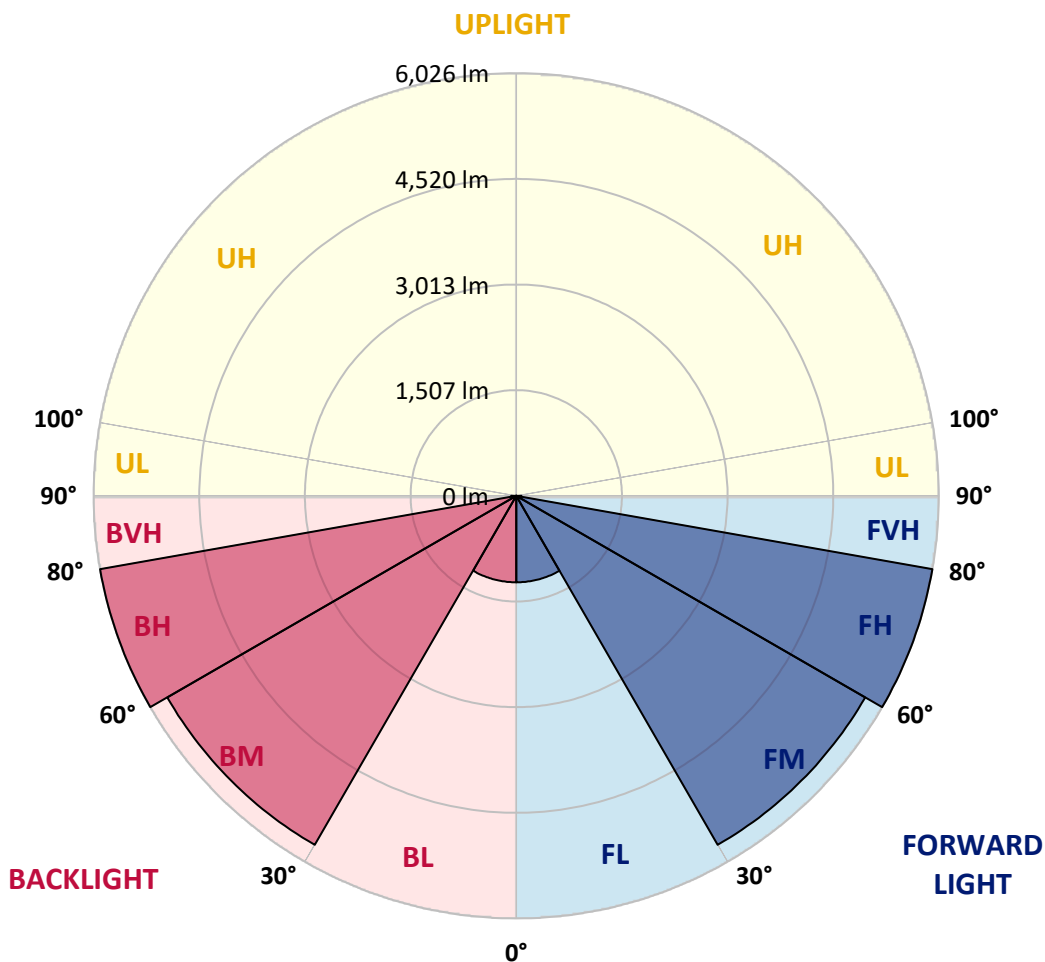
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.1	4.7			
FM (30°-60°)	5746.6	22.0			
FH (60°-80°)	6026.1	23.0			G3/7500
FVH (80°-90°)	73.0	0.3			G1/100
BL (0°-30°)	1233.1	4.7	B3/2500		
BM (30°-60°)	5746.6	22.0	B4/8500		
BH (60°-80°)	6026.1	23.0	B5		G3/7500
BVH (80°-90°)	73.0	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°	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7	2904.7
2.5°	2904.7	2907.4	2903.3	2900.5	2899.1	2899.1	2897.8	2899.1	2907.4	2908.8	2904.7
5°	2896.4	2899.1	2897.8	2895.1	2893.7	2893.7	2892.2	2890.9	2897.8	2900.5	2899.1
7.5°	2885.4	2886.8	2885.4	2884.0	2885.4	2884.0	2879.9	2877.1	2882.6	2882.6	2881.3
10°	2866.1	2868.8	2867.5	2868.8	2871.6	2871.6	2866.1	2860.5	2861.9	2859.2	2859.2
12.5°	2842.7	2846.8	2848.2	2853.6	2860.5	2868.8	2856.5	2844.0	2841.3	2839.9	2838.5
15°	2827.5	2831.6	2837.1	2842.7	2855.1	2873.0	2855.1	2835.8	2830.2	2824.8	2822.0
17.5°	2823.3	2828.9	2837.1	2845.4	2861.9	2879.9	2864.7	2845.4	2831.6	2823.3	2820.6
20°	2834.4	2838.5	2850.9	2866.1	2889.5	2907.4	2892.2	2871.6	2850.9	2838.5	2834.4
22.5°	2856.5	2863.4	2878.5	2906.1	2939.1	2965.4	2944.6	2910.2	2877.1	2860.5	2855.1
25°	2904.7	2910.2	2928.1	2965.4	3004.0	3028.7	3006.7	2966.7	2921.2	2899.1	2892.2
27.5°	2977.7	2986.0	3005.3	3049.5	3081.2	3095.0	3079.8	3052.2	3019.1	2995.7	2990.2
30°	3081.2	3090.8	3119.8	3166.6	3187.3	3195.6	3188.7	3170.8	3147.3	3122.5	3117.0
32.5°	3220.4	3225.9	3259.0	3303.1	3322.4	3325.2	3316.9	3308.6	3270.0	3228.6	3225.9
35°	3376.1	3385.8	3425.8	3478.2	3496.1	3497.5	3480.9	3468.5	3423.0	3389.9	3389.9
37.5°	3582.9	3587.1	3625.7	3685.0	3704.3	3698.7	3690.5	3679.5	3631.2	3588.5	3589.8
40°	3825.6	3833.9	3866.9	3935.9	3935.9	3929.0	3934.5	3926.2	3878.0	3836.6	3838.0
42.5°	4113.7	4117.9	4157.8	4230.9	4225.4	4211.6	4217.1	4206.0	4175.7	4128.8	4112.3
45°	4421.1	4437.7	4506.6	4576.9	4565.9	4521.7	4543.8	4541.1	4513.5	4443.2	4447.4
47.5°	4792.0	4819.5	4885.7	4969.8	4957.4	4888.5	4913.3	4929.8	4891.2	4814.0	4800.3
50°	5209.7	5227.6	5325.5	5404.0	5393.1	5319.9	5376.5	5379.3	5282.7	5173.8	5173.8
52.5°	5655.0	5672.9	5805.2	5927.9	5934.8	5828.7	5874.1	5871.4	5714.3	5570.9	5543.3
55°	6154.0	6162.3	6333.2	6513.9	6552.5	6449.0	6454.6	6399.4	6195.4	6028.6	6013.4
57.5°	6669.6	6700.0	6888.8	7123.2	7237.6	7174.2	7145.2	6997.7	6800.6	6609.0	6599.3
60°	7240.3	7241.7	7487.1	7764.2	7995.8	8038.6	7920.0	7722.9	7467.8	7214.2	7203.1
62.5°	7636.0	7695.2	8005.5	8474.2	8889.2	9129.0	8816.1	8402.5	7900.7	7491.3	7449.9
65°	7717.3	7757.3	8230.2	9024.2	9872.1	10389.1	9665.3	8785.7	7929.7	7383.7	7356.1
67.5°	7059.8	7102.5	7739.4	8958.1	10561.3	11621.5	10216.7	8601.0	7438.9	6763.3	6709.6
70°	5460.6	5508.9	6296.0	7885.5	10408.3	12008.9	9823.8	7502.3	6134.7	5405.4	5307.6
72.5°	2903.3	3081.2	3753.9	5412.3	8448.0	10339.4	8055.1	5474.3	3956.6	3234.2	3104.6
75°	1060.1	1082.2	1457.2	2400.1	4914.7	7090.1	5103.5	2611.1	1501.2	1159.4	1100.1
77.5°	438.4	437.0	479.7	725.1	1785.2	3631.2	1992.0	766.5	478.3	442.6	437.0
80°	259.2	259.2	285.4	301.9	470.1	1096.0	525.2	341.9	286.7	261.9	266.1
82.5°	115.8	122.7	180.6	190.3	227.5	300.5	253.7	217.8	187.5	129.6	117.2
85°	63.4	55.1	95.1	99.3	108.9	111.7	120.0	118.5	108.9	63.4	64.8
87.5°	12.4	15.2	27.6	20.7	23.4	20.7	27.6	38.6	40.0	22.1	17.9
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)