

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: P529942

Luminaire Tested: **GALN-SA5A-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14283 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

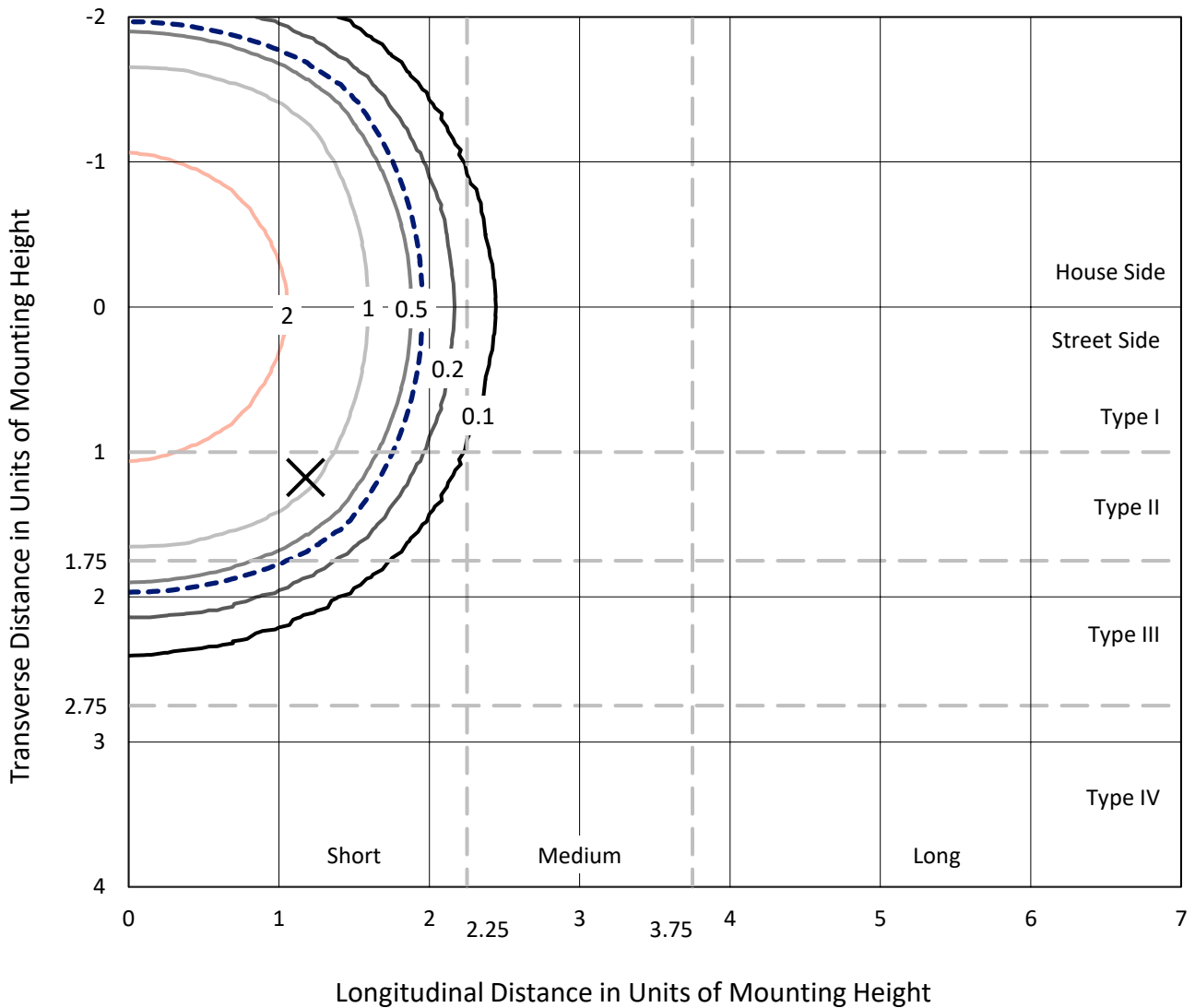
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

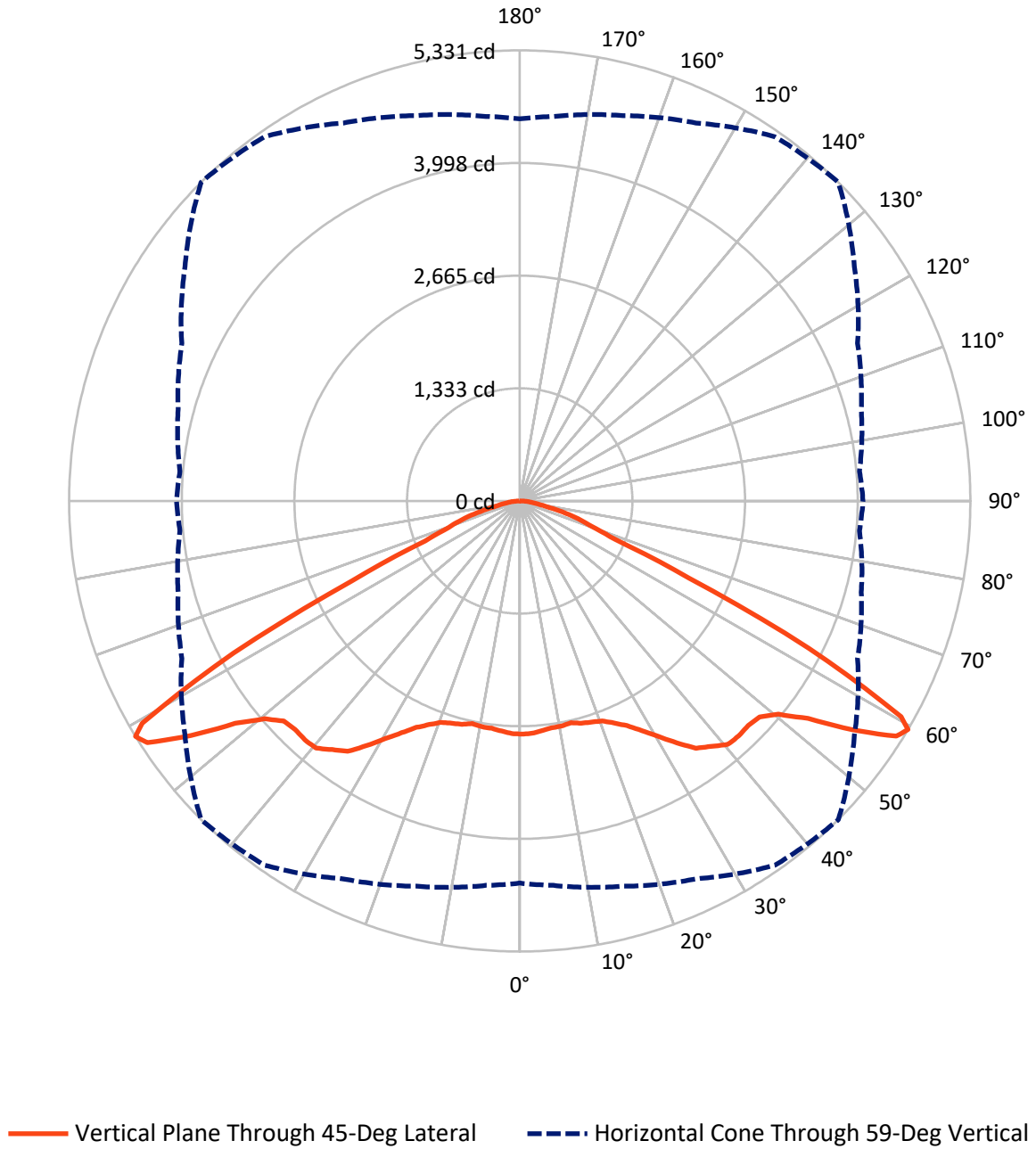
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7141.5	0.0	7141.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7141.5	0.0	7141.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14283.0	0.0	14283.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.1	1.8
10°-20°	773.4	5.4
20°-30°	1350.4	9.5
30°-40°	2156.8	15.1
40°-50°	2938.0	20.6
50°-60°	3973.0	27.8
60°-70°	2178.8	15.3
70°-80°	557.4	3.9
80°-90°	95.1	0.7
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°	14283.0	100.0
0°-180°	14283.0	100.0

**Coefficient of Utilization**



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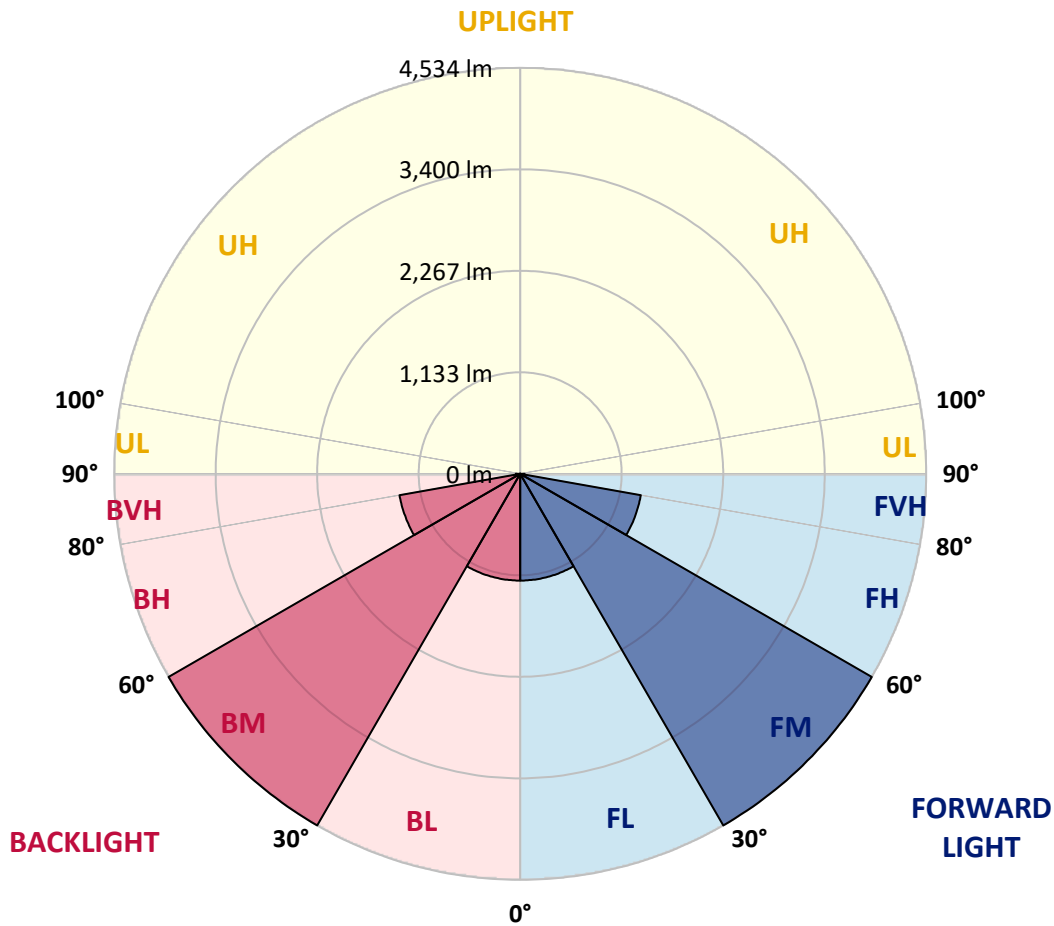
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.9	8.3			
FM (30°-60°)	4533.9	31.7			
FH (60°-80°)	1368.1	9.6			G1/1800
FVH (80°-90°)	47.5	0.3			G1/100
BL (0°-30°)	1191.9	8.3	B3/2500		
BM (30°-60°)	4533.9	31.7	B3/5000		
BH (60°-80°)	1368.1	9.6	B3/2500		G1/1800
BVH (80°-90°)	47.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8
2.5°	2742.3	2762.5	2747.8	2760.6	2758.8	2753.3	2744.1	2738.7	2731.3	2742.3	2724.0
5°	2731.3	2747.8	2764.3	2742.3	2742.3	2731.3	2725.8	2714.9	2714.9	2713.0	2711.2
7.5°	2749.6	2733.2	2725.8	2729.5	2733.2	2709.4	2725.8	2703.9	2685.6	2698.4	2713.0
10°	2733.2	2740.5	2713.0	2725.8	2705.7	2709.4	2698.4	2713.0	2692.9	2692.9	2692.9
12.5°	2749.6	2729.5	2738.7	2729.5	2724.0	2692.9	2707.5	2691.1	2689.2	2707.5	2691.1
15°	2782.6	2749.6	2742.3	2724.0	2729.5	2729.5	2714.9	2716.7	2696.6	2707.5	2711.2
17.5°	2771.6	2753.3	2747.8	2725.8	2744.1	2749.6	2722.2	2703.9	2716.7	2714.9	2713.0
20°	2780.8	2788.1	2782.6	2786.3	2793.6	2778.9	2753.3	2727.7	2711.2	2735.0	2733.2
22.5°	2839.3	2832.0	2828.4	2824.7	2837.5	2852.2	2817.4	2777.1	2777.1	2793.6	2800.9
25°	2886.9	2885.1	2883.3	2899.8	2943.7	2943.7	2899.8	2848.5	2835.7	2846.7	2837.5
27.5°	2956.5	2976.6	2969.3	2998.6	3062.7	3077.3	3018.7	2958.3	2923.6	2910.7	2927.2
30°	3115.8	3092.0	3097.5	3128.6	3185.3	3232.9	3143.2	3079.2	3031.6	3029.7	3037.1
32.5°	3221.9	3240.3	3256.7	3286.0	3375.7	3412.3	3304.3	3200.0	3170.7	3154.2	3159.7
35°	3434.3	3417.8	3414.2	3443.5	3533.2	3593.6	3458.1	3366.6	3328.1	3364.7	3364.7
37.5°	3635.7	3589.9	3555.1	3593.6	3675.9	3683.3	3567.9	3518.5	3498.4	3540.5	3538.7
40°	3730.9	3727.2	3646.7	3668.6	3778.5	3789.4	3681.4	3622.9	3619.2	3674.1	3729.0
42.5°	3829.7	3794.9	3714.4	3729.0	3796.8	3800.4	3697.9	3681.4	3721.7	3774.8	3778.5
45°	3846.2	3816.9	3765.7	3729.0	3778.5	3789.4	3729.0	3740.0	3743.7	3807.8	3807.8
47.5°	3879.2	3875.5	3846.2	3818.7	3827.9	3818.7	3780.3	3796.8	3851.7	3882.8	3868.2
50°	3970.7	3932.2	3961.5	3937.7	3939.6	3965.2	3930.4	3946.9	3935.9	3908.4	3890.1
52.5°	4172.1	4153.7	4179.4	4195.9	4214.2	4272.7	4232.5	4144.6	4062.2	3989.0	3987.2
55°	4466.8	4479.6	4529.0	4613.2	4684.6	4778.0	4584.0	4373.4	4241.6	4126.3	4133.6
57.5°	4745.0	4735.9	4803.6	4995.8	5204.5	5252.1	4871.4	4571.1	4357.0	4283.7	4252.6
59°	4521.7	4565.6	4719.4	4933.6	5261.3	5330.9	4832.9	4410.0	4183.0	4034.8	4060.4
60°	4170.2	4186.7	4324.0	4622.4	5065.4	5184.4	4574.8	4161.1	3859.0	3773.0	3811.4
62.5°	2947.3	2934.5	3033.4	3276.9	3674.1	3835.2	3401.4	3110.3	2919.9	2824.7	2846.7
65°	1567.0	1625.6	1665.9	1817.8	2028.4	2198.6	2019.2	1892.9	1786.7	1708.0	1706.2
67.5°	1058.1	1050.8	1059.9	1094.7	1166.1	1213.7	1210.1	1146.0	1136.8	1122.2	1138.7
70°	891.5	887.9	871.4	871.4	886.0	897.0	909.8	917.2	931.8	950.1	948.3
72.5°	723.1	714.0	703.0	697.5	715.8	721.3	737.8	745.1	757.9	756.1	772.5
75°	477.8	477.8	490.6	505.3	510.8	521.7	523.6	545.5	545.5	549.2	534.6
77.5°	267.3	260.0	269.1	283.8	296.6	316.7	336.8	353.3	362.5	358.8	358.8
80°	155.6	155.6	164.8	181.2	197.7	216.0	230.7	243.5	252.6	249.0	241.6
82.5°	97.0	97.0	106.2	122.7	135.5	146.5	166.6	183.1	194.0	190.4	181.2
85°	49.4	49.4	60.4	71.4	87.9	95.2	93.4	86.0	84.2	75.1	75.1
87.5°	12.8	12.8	18.3	20.1	16.5	18.3	18.3	18.3	18.3	18.3	20.1
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)