

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: P529940

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15164 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

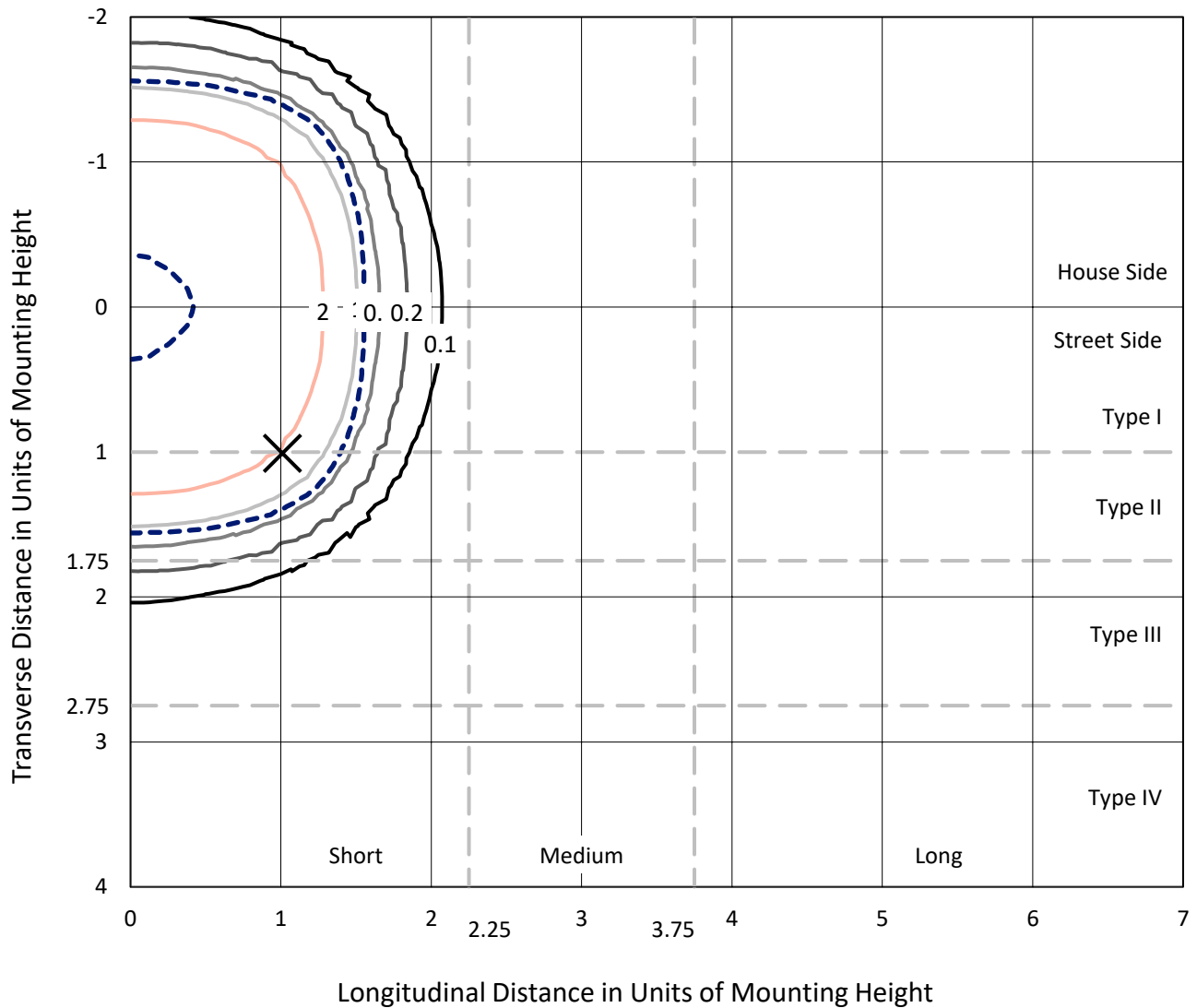
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

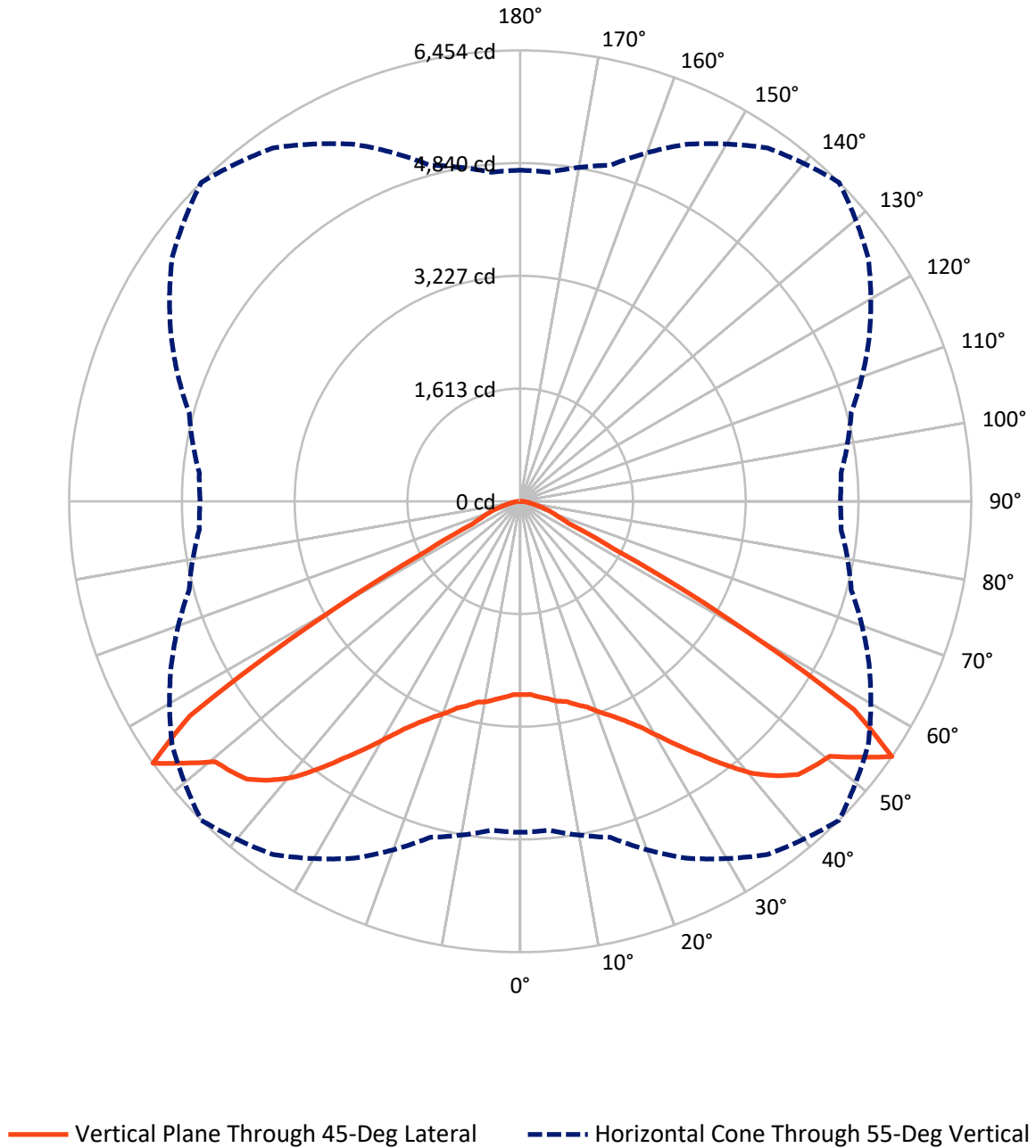
✕ Max cd  
 - - - 1/2 Max cd



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	7582.0	0.0	7582.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7582.0	0.0	7582.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15164.0	0.0	15164.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.5	1.8
10°-20°	857.0	5.7
20°-30°	1598.1	10.5
30°-40°	2675.7	17.6
40°-50°	4163.5	27.5
50°-60°	4323.1	28.5
60°-70°	916.8	6.0
70°-80°	301.9	2.0
80°-90°	57.5	0.4
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°	15164.0	100.0
0°-180°	15164.0	100.0

**Coefficient of Utilization**

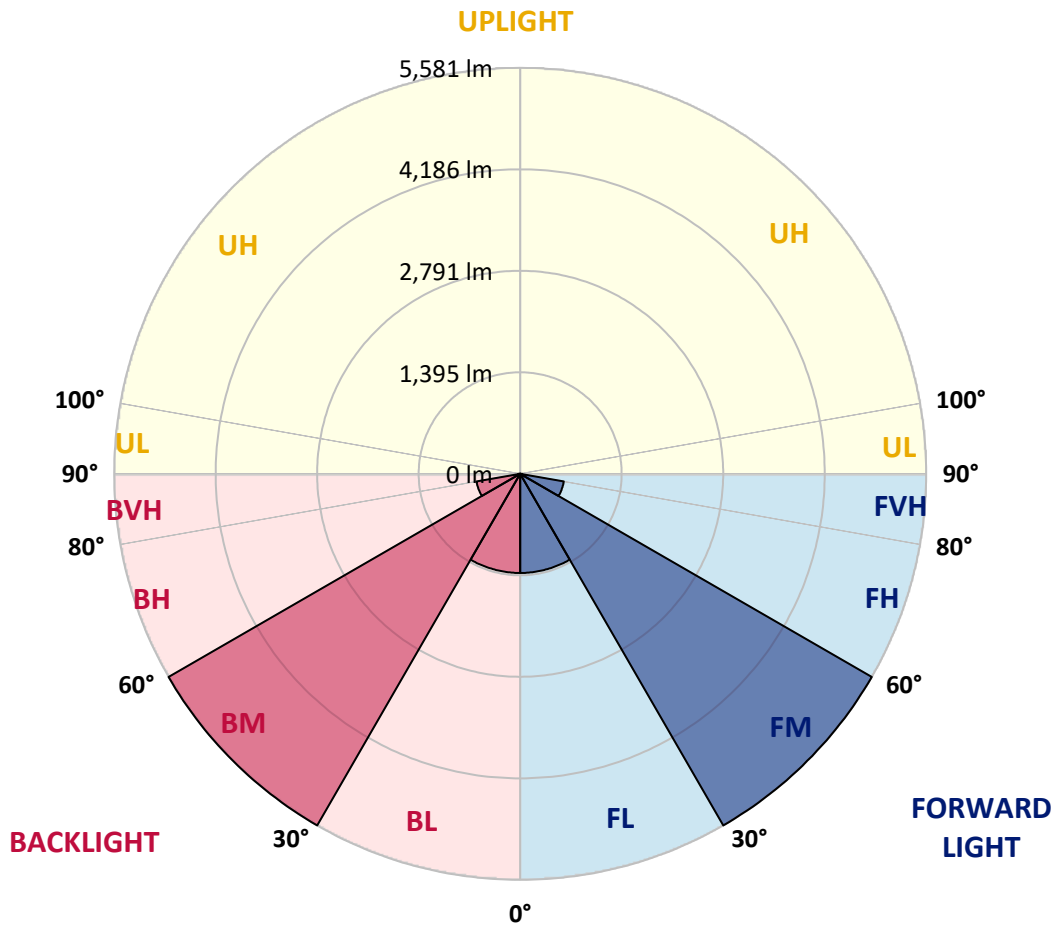


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.8	9.0			
FM (30°-60°)	5581.1	36.8			
FH (60°-80°)	609.3	4.0			G0/660
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	1362.8	9.0	B3/2500		
BM (30°-60°)	5581.1	36.8	B4/8500		
BH (60°-80°)	609.3	4.0	B2/1000		G0/660
BVH (80°-90°)	28.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7	2768.7
2.5°	2801.7	2788.9	2766.9	2783.4	2796.2	2768.7	2779.7	2785.2	2781.5	2766.9	2772.4
5°	2842.0	2834.7	2816.4	2829.2	2812.7	2812.7	2801.7	2787.0	2809.0	2805.4	2814.5
7.5°	2842.0	2832.9	2869.5	2845.7	2853.0	2853.0	2834.7	2820.0	2831.0	2814.5	2805.4
10°	2898.8	2911.6	2895.2	2900.7	2897.0	2909.8	2882.3	2873.2	2864.0	2858.5	2847.5
12.5°	2966.6	2957.5	2963.0	2959.3	2972.1	2939.1	2922.6	2902.5	2919.0	2895.2	2911.6
15°	3021.6	3016.1	3021.6	3036.2	3023.4	3021.6	2992.3	2972.1	2946.5	2952.0	2926.3
17.5°	3096.7	3091.2	3093.1	3105.9	3104.0	3094.9	3072.9	3034.4	3025.3	3010.6	2994.1
20°	3208.5	3199.3	3195.7	3201.2	3210.3	3217.7	3173.7	3159.0	3127.9	3104.0	3076.6
22.5°	3303.8	3300.1	3314.8	3290.9	3311.1	3333.1	3290.9	3283.6	3206.7	3193.8	3164.5
25°	3435.7	3430.2	3421.0	3455.9	3479.7	3477.8	3437.5	3397.2	3338.6	3323.9	3323.9
27.5°	3575.0	3543.8	3591.5	3600.6	3642.8	3655.6	3620.8	3562.1	3507.2	3476.0	3483.3
30°	3749.0	3719.7	3730.7	3796.7	3851.7	3899.3	3811.3	3725.2	3648.3	3593.3	3584.1
32.5°	3923.1	3893.8	3926.8	3990.9	4100.9	4172.3	4086.2	3935.9	3846.2	3765.5	3782.0
35°	4064.2	4086.2	4139.3	4236.5	4350.1	4465.5	4328.1	4212.6	4084.4	3994.6	4007.4
37.5°	4291.4	4359.2	4401.4	4513.1	4674.4	4793.5	4650.6	4500.3	4362.9	4245.6	4205.3
40°	4588.3	4634.1	4681.7	4813.7	5004.2	5123.3	4987.7	4791.7	4656.1	4535.1	4529.6
42.5°	4914.4	4958.4	5007.9	5169.1	5282.7	5372.5	5247.9	5143.5	4993.2	4897.9	4892.4
45°	5293.7	5262.6	5317.6	5423.8	5519.1	5577.8	5497.1	5445.8	5337.7	5249.8	5240.6
47.5°	5546.6	5519.1	5618.1	5713.3	5728.0	5663.9	5680.4	5728.0	5614.4	5469.6	5515.5
50°	5693.2	5693.2	5759.2	5847.1	5819.6	5737.2	5867.3	5870.9	5757.3	5629.1	5629.1
52.5°	5438.5	5495.3	5682.2	5969.9	6061.5	6085.3	6056.0	5931.4	5634.6	5372.5	5359.7
55°	4738.5	4725.7	4978.6	5638.2	6171.4	6453.6	6079.8	5506.3	4903.4	4608.4	4579.1
57.5°	3082.1	3096.7	3474.2	4146.7	5108.7	5634.6	5004.2	4198.0	3474.2	3067.4	3105.9
60°	1387.1	1436.6	1665.6	2167.7	2994.1	3422.9	3001.4	2277.6	1748.1	1517.2	1537.4
62.5°	797.1	806.2	815.4	967.5	1275.3	1508.0	1324.8	1022.5	901.5	861.2	861.2
65°	672.5	667.0	668.8	681.6	714.6	762.3	742.1	714.6	718.3	714.6	709.1
67.5°	571.7	579.0	573.5	582.7	584.5	591.9	604.7	615.7	617.5	621.2	617.5
70°	469.1	470.9	474.6	481.9	483.7	489.2	507.6	516.7	522.2	522.2	529.6
72.5°	359.1	357.3	361.0	368.3	377.5	379.3	395.8	408.6	415.9	406.8	408.6
75°	236.4	238.2	243.7	249.2	262.0	274.9	280.4	293.2	295.0	298.7	289.5
77.5°	141.1	144.8	150.3	161.2	172.2	183.2	196.1	205.2	208.9	205.2	194.2
80°	91.6	91.6	98.9	108.1	120.9	130.1	137.4	144.8	150.3	144.8	141.1
82.5°	56.8	56.8	66.0	77.0	86.1	91.6	102.6	111.8	117.3	113.6	108.1
85°	29.3	31.2	38.5	47.6	55.0	58.6	56.8	51.3	45.8	44.0	40.3
87.5°	9.2	9.2	11.0	11.0	9.2	9.2	11.0	9.2	11.0	11.0	11.0
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)