

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: P453439

Luminaire Tested: **GALN-SA4C-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24274 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

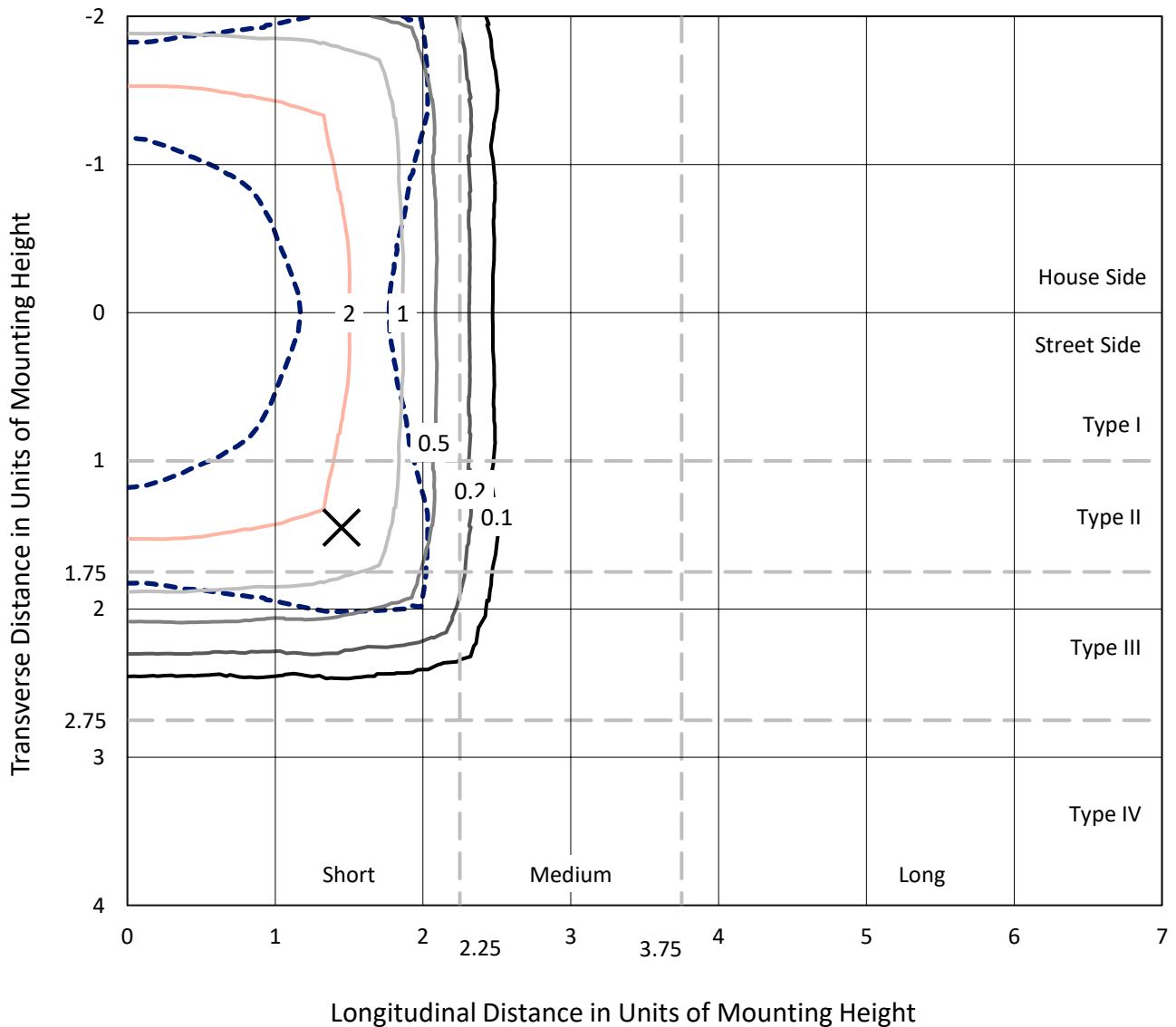
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

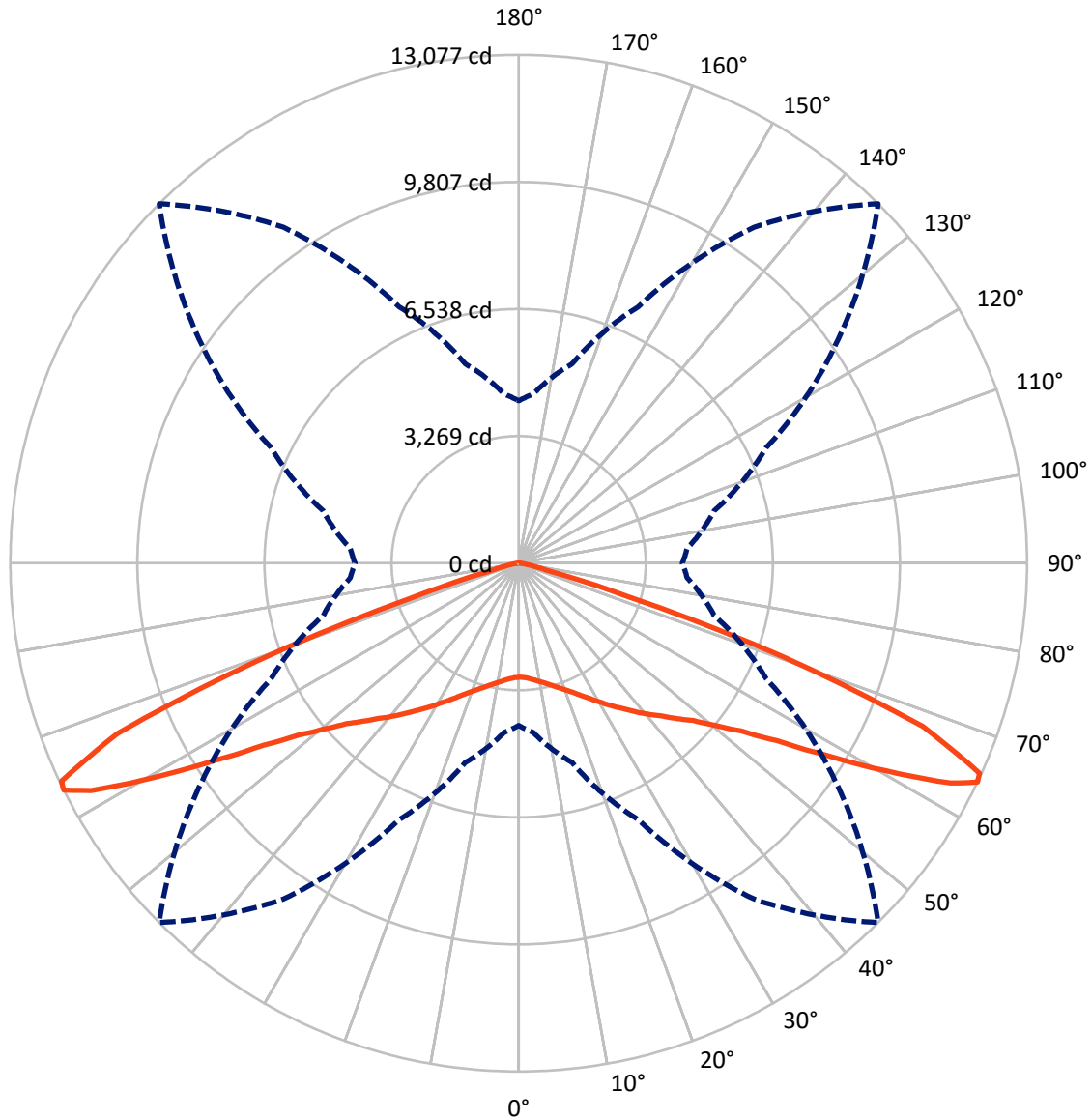
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12137.0	0.0	12137.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12137.0	0.0	12137.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24274.0	0.0	24274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.2	1.2
10°-20°	929.7	3.8
20°-30°	1757.0	7.2
30°-40°	2909.7	12.0
40°-50°	4542.6	18.7
50°-60°	7022.7	28.9
60°-70°	6055.6	24.9
70°-80°	686.3	2.8
80°-90°	82.2	0.3
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°	24274.0	100.0
0°-180°	24274.0	100.0

**Coefficient of Utilization**



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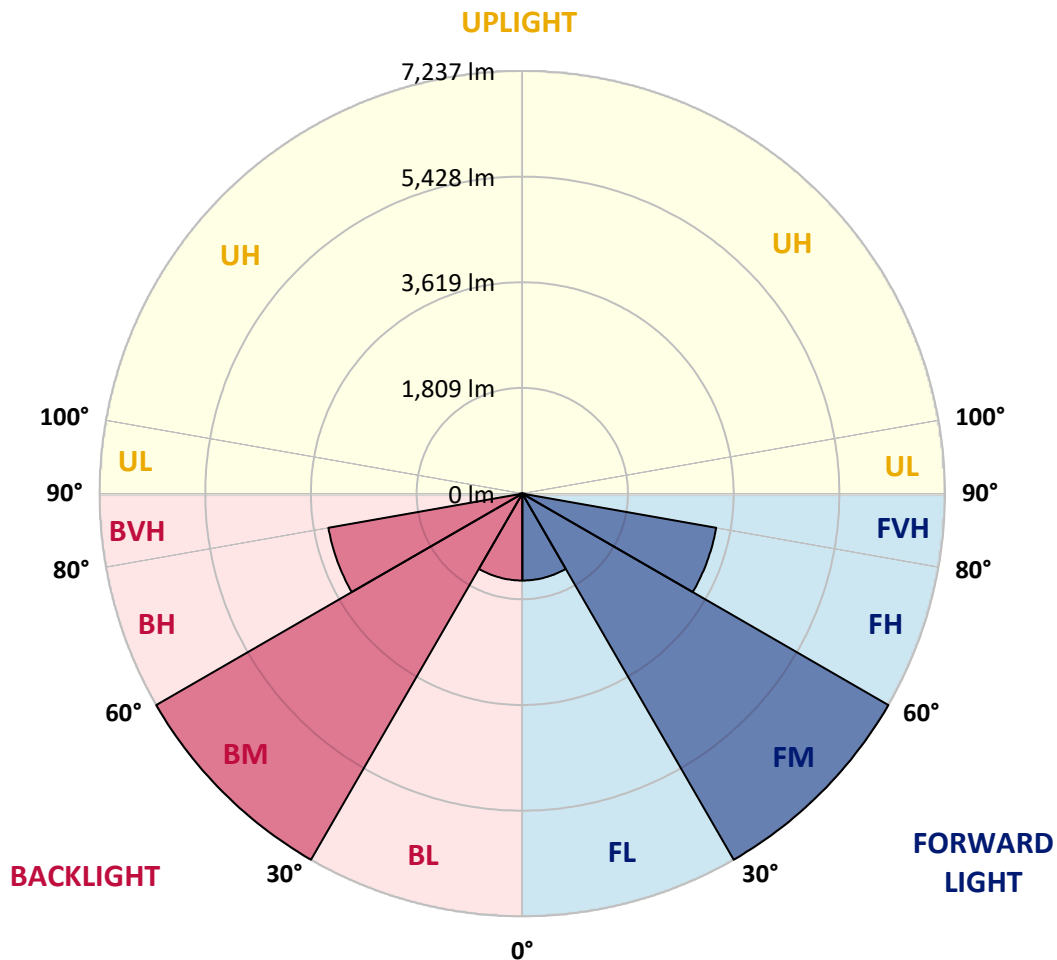
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.5	6.1			
FM	(30°-60°)	7237.5	29.8			
FH	(60°-80°)	3370.9	13.9			G2/5000
FVH	(80°-90°)	41.1	0.2			G1/100
BL	(0°-30°)	1487.5	6.1	B3/2500		
BM	(30°-60°)	7237.5	29.8	B4/8500		
BH	(60°-80°)	3370.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	41.1	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9	2933.9
2.5°	2945.5	2951.9	2946.8	2945.5	2944.2	2944.2	2944.2	2945.5	2950.6	2954.5	2951.9
5°	2982.8	2987.9	2985.3	2984.1	2982.8	2984.1	2981.5	2980.2	2984.1	2984.1	2982.8
7.5°	3029.1	3035.5	3032.9	3035.5	3036.8	3038.1	3031.6	3026.5	3025.2	3029.1	3026.5
10°	3092.1	3097.2	3098.5	3099.8	3102.3	3101.1	3093.3	3084.3	3083.1	3081.8	3080.5
12.5°	3162.8	3166.6	3167.9	3173.1	3176.9	3178.2	3169.2	3161.5	3148.6	3151.2	3146.1
15°	3242.5	3250.2	3248.9	3256.6	3266.9	3269.5	3260.5	3247.6	3236.1	3229.6	3225.8
17.5°	3340.2	3345.3	3342.8	3350.5	3363.3	3369.8	3362.1	3345.3	3333.8	3319.6	3311.9
20°	3455.9	3464.9	3467.5	3467.5	3479.0	3485.5	3473.9	3468.8	3450.8	3440.5	3434.1
22.5°	3587.0	3590.9	3598.6	3606.3	3617.9	3615.3	3611.5	3603.8	3587.0	3578.0	3567.8
25°	3734.9	3738.8	3758.0	3774.8	3778.6	3776.0	3770.9	3767.0	3751.6	3731.0	3723.3
27.5°	3907.2	3914.9	3940.6	3956.0	3956.0	3957.3	3947.0	3959.9	3926.5	3902.0	3899.5
30°	4123.2	4128.3	4150.2	4165.6	4157.9	4151.5	4148.9	4161.7	4125.7	4082.0	4071.7
32.5°	4336.6	4354.6	4373.9	4407.3	4380.3	4368.7	4366.2	4375.2	4334.0	4285.2	4271.0
35°	4565.4	4578.3	4614.3	4642.6	4618.2	4591.2	4602.7	4631.0	4582.2	4516.6	4514.0
37.5°	4818.7	4830.3	4876.6	4906.2	4888.2	4841.9	4861.2	4894.6	4845.7	4764.7	4748.0
40°	5082.3	5106.7	5164.6	5195.4	5165.9	5104.1	5140.1	5176.1	5132.4	5038.6	5001.3
42.5°	5378.0	5416.6	5500.1	5515.6	5459.0	5375.4	5438.4	5496.3	5465.4	5357.4	5343.3
45°	5723.8	5747.0	5849.8	5883.3	5804.8	5700.7	5779.1	5884.6	5861.4	5736.7	5709.7
47.5°	6110.8	6132.7	6239.4	6289.5	6190.5	6050.4	6191.8	6329.4	6315.3	6181.5	6168.7
50°	6568.5	6573.7	6721.5	6778.1	6679.1	6558.3	6684.2	6855.2	6798.7	6627.7	6625.1
52.5°	7070.0	7076.4	7262.8	7372.1	7316.8	7180.5	7329.7	7433.8	7289.8	7066.1	7049.4
55°	7504.5	7536.7	7791.2	8081.8	8157.6	8058.6	8103.6	8054.8	7699.9	7386.2	7337.4
57.5°	7681.9	7744.9	8131.9	8674.5	9168.2	9314.7	8967.6	8502.2	7863.2	7419.7	7372.1
60°	7248.7	7316.8	7917.2	8947.0	10207.0	10843.4	9867.6	8578.1	7491.7	6868.1	6793.5
62.5°	5804.8	5824.1	6707.4	8305.5	10812.6	12460.8	10246.9	7931.4	6410.4	5563.1	5533.6
64°	4177.2	4375.2	5311.1	7282.1	10547.7	13076.6	10028.3	7025.0	5207.0	4349.5	4210.6
65°	3124.2	3178.2	4281.3	6218.8	10081.0	13030.4	9604.0	6158.4	4312.2	3328.6	3174.3
67.5°	1180.3	1186.7	1580.1	3099.8	7176.7	11211.1	7329.7	3350.5	1816.7	1314.0	1266.4
70°	489.8	498.8	579.8	1042.7	3084.3	7198.5	3534.3	1208.5	664.7	538.7	531.0
72.5°	358.7	363.8	388.3	462.8	948.8	2955.8	1162.3	513.0	389.6	348.4	344.6
75°	281.6	284.1	302.1	340.7	442.3	819.0	483.4	352.3	297.0	267.4	264.9
77.5°	214.7	221.1	234.0	259.7	297.0	388.3	320.1	263.6	228.9	204.4	200.6
80°	147.9	155.6	180.0	190.3	199.3	252.0	218.6	199.3	178.7	149.1	140.1
82.5°	91.3	96.4	120.9	129.9	126.0	141.4	140.1	142.7	127.3	92.6	86.1
85°	47.6	50.1	65.6	68.1	63.0	57.9	72.0	83.6	78.4	52.7	51.4
87.5°	10.3	11.6	14.1	12.9	14.1	14.1	18.0	27.0	28.3	18.0	16.7
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)