

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: P455904

Luminaire Tested: **GALN-SA7A-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455904  
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-SA7A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24437 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

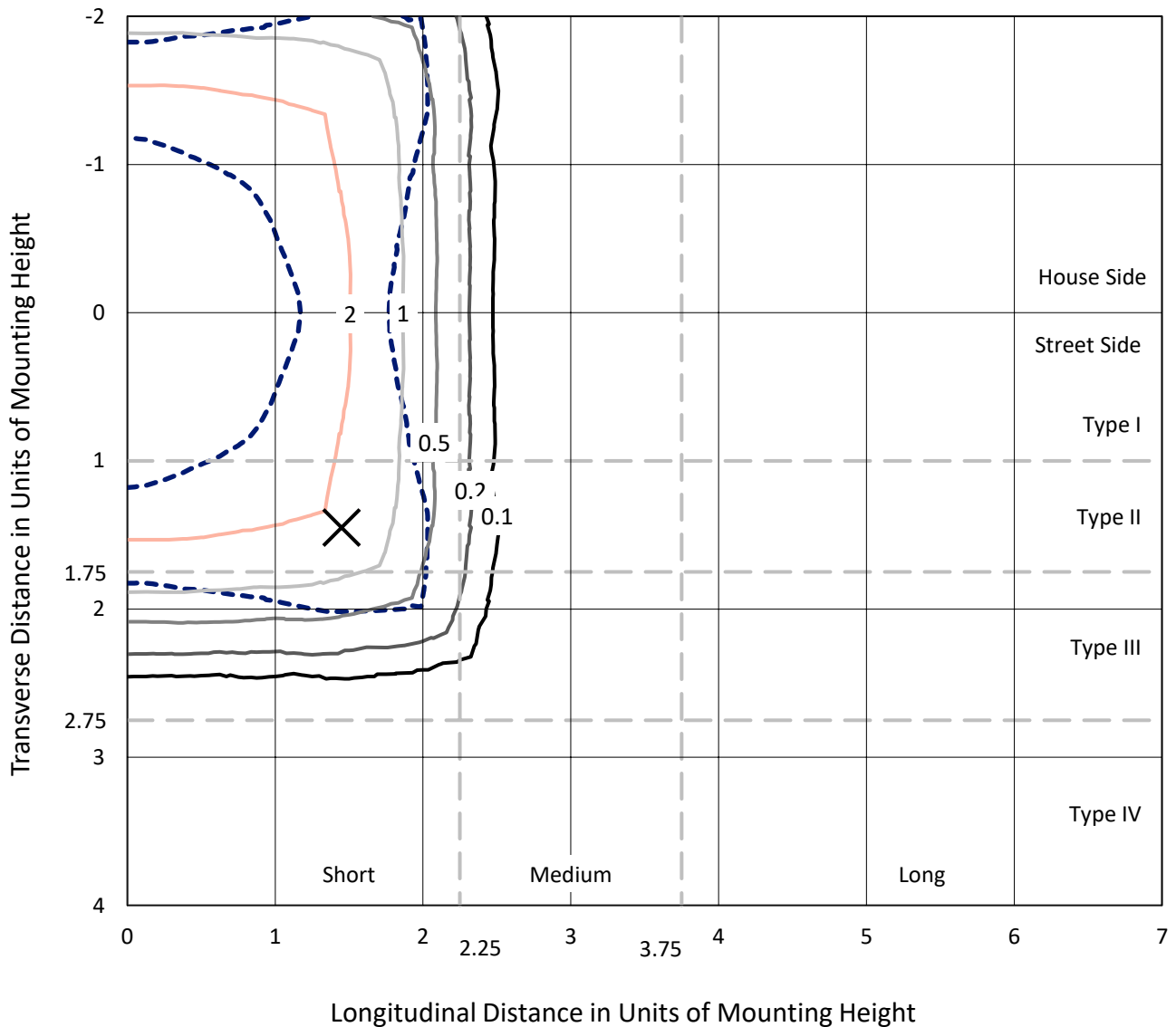
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

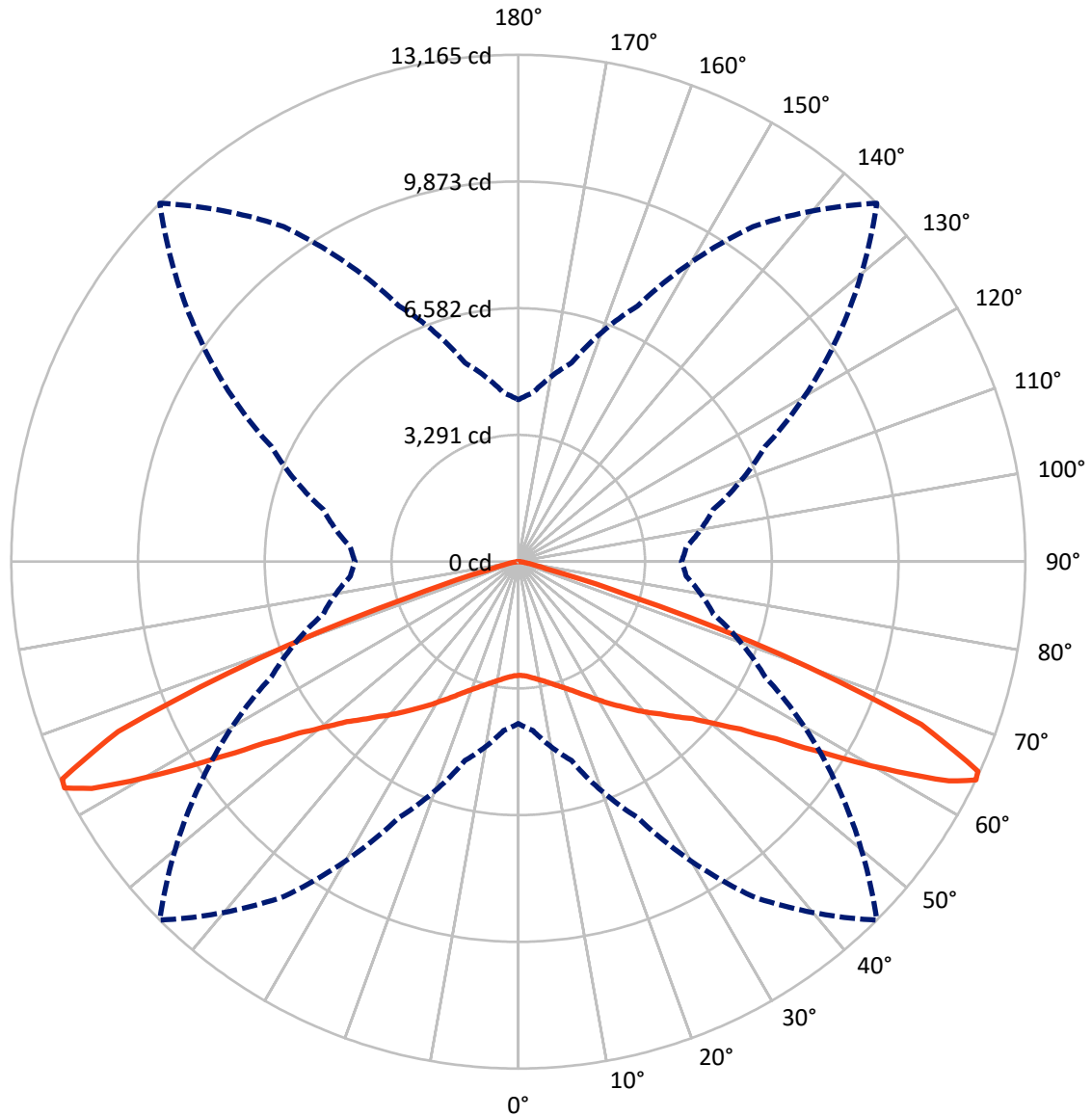
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	12218.5	0.0	12218.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12218.5	0.0	12218.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24437.0	0.0	24437.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.2	1.2
10°-20°	936.0	3.8
20°-30°	1768.8	7.2
30°-40°	2929.3	12.0
40°-50°	4573.1	18.7
50°-60°	7069.9	28.9
60°-70°	6096.3	24.9
70°-80°	690.9	2.8
80°-90°	82.8	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°	24437.0	100.0
0°-180°	24437.0	100.0

**Coefficient of Utilization**



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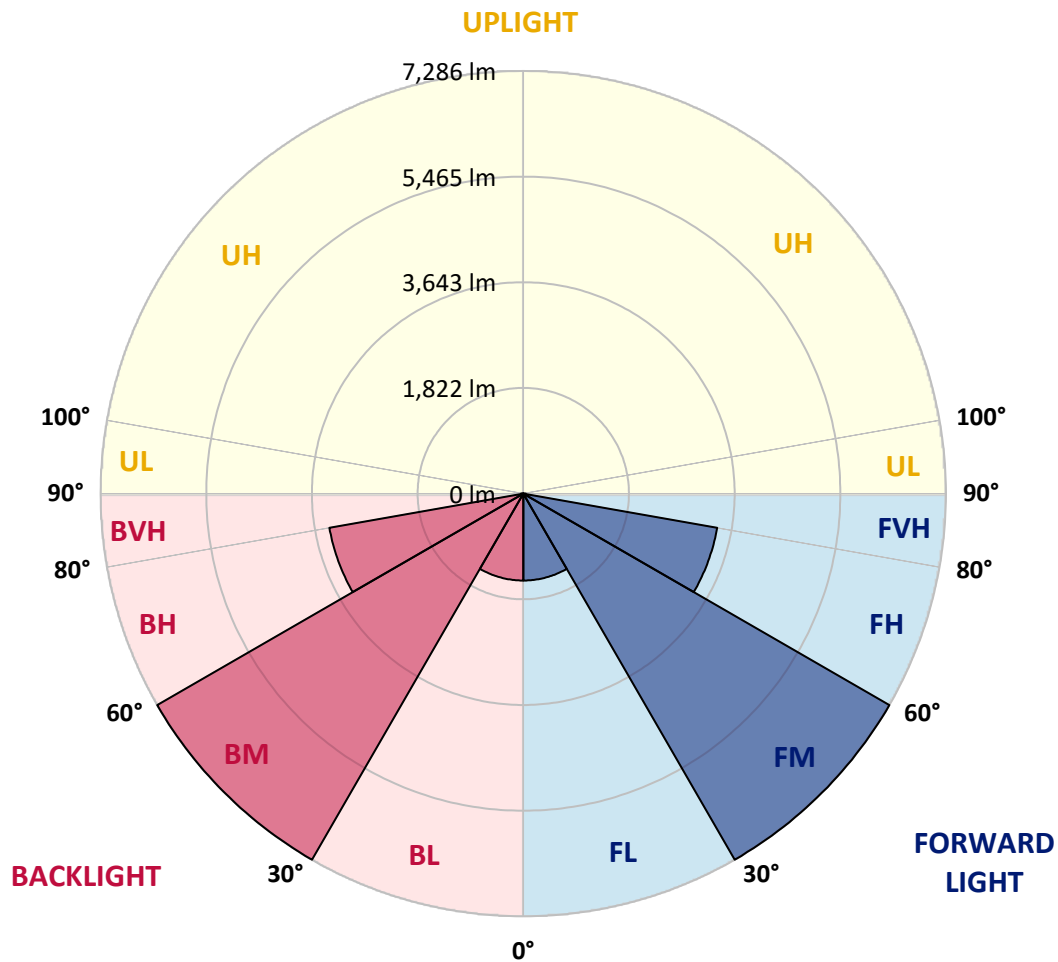
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1497.5	6.1			
FM	(30°-60°)	7286.1	29.8			
FH	(60°-80°)	3393.6	13.9			G2/5000
FVH	(80°-90°)	41.4	0.2			G1/100
BL	(0°-30°)	1497.5	6.1	B3/2500		
BM	(30°-60°)	7286.1	29.8	B4/8500		
BH	(60°-80°)	3393.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	41.4	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°	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6	2953.6
2.5°	2965.3	2971.7	2966.6	2965.3	2964.0	2964.0	2964.0	2965.3	2970.4	2974.3	2971.7
5°	3002.8	3008.0	3005.4	3004.1	3002.8	3002.8	3001.5	3000.2	3004.1	3004.1	3002.8
7.5°	3049.4	3055.9	3053.3	3055.9	3057.2	3058.5	3052.0	3046.8	3045.5	3049.4	3046.8
10°	3112.8	3118.0	3119.3	3120.6	3123.2	3121.9	3114.1	3105.1	3103.8	3102.5	3101.2
12.5°	3184.0	3187.9	3189.2	3194.4	3198.2	3199.5	3190.5	3182.7	3169.8	3172.4	3167.2
15°	3264.3	3272.0	3270.7	3278.5	3288.8	3291.4	3282.4	3269.4	3257.8	3251.3	3247.4
17.5°	3362.6	3367.8	3365.2	3373.0	3385.9	3392.4	3384.6	3367.8	3356.2	3341.9	3334.2
20°	3479.1	3488.2	3490.8	3490.8	3502.4	3508.9	3497.2	3492.1	3473.9	3463.6	3457.1
22.5°	3611.1	3615.0	3622.8	3630.5	3642.2	3639.6	3635.7	3628.0	3611.1	3602.1	3591.7
25°	3760.0	3763.9	3783.3	3800.1	3804.0	3801.4	3796.2	3792.3	3776.8	3756.1	3748.3
27.5°	3933.4	3941.2	3967.1	3982.6	3982.6	3983.9	3973.5	3986.5	3952.8	3928.2	3925.7
30°	4150.9	4156.0	4178.0	4193.6	4185.8	4179.3	4176.7	4189.7	4153.5	4109.4	4099.1
32.5°	4365.7	4383.8	4403.3	4436.9	4409.7	4398.1	4395.5	4404.5	4363.1	4313.9	4299.7
35°	4596.1	4609.0	4645.3	4673.8	4649.2	4622.0	4633.6	4662.1	4612.9	4546.9	4544.3
37.5°	4851.1	4862.7	4909.3	4939.1	4921.0	4874.4	4893.8	4927.4	4878.3	4796.7	4779.9
40°	5116.4	5141.0	5199.3	5230.3	5200.5	5138.4	5174.7	5210.9	5166.9	5072.4	5034.9
42.5°	5414.1	5452.9	5537.1	5552.6	5495.7	5411.5	5474.9	5533.2	5502.1	5393.4	5379.2
45°	5762.3	5785.6	5889.1	5922.8	5843.8	5739.0	5817.9	5924.1	5900.8	5775.2	5748.0
47.5°	6151.9	6173.9	6281.3	6331.8	6232.1	6091.0	6233.4	6371.9	6357.7	6223.1	6210.1
50°	6612.6	6617.8	6766.7	6823.6	6724.0	6602.3	6729.1	6901.3	6844.3	6672.2	6669.6
52.5°	7117.4	7123.9	7311.6	7421.6	7365.9	7228.7	7378.9	7483.7	7338.8	7113.5	7096.7
55°	7554.9	7587.3	7843.5	8136.1	8212.4	8112.8	8158.1	8108.9	7751.6	7435.8	7386.6
57.5°	7733.5	7796.9	8186.5	8732.7	9229.7	9377.3	9027.8	8559.3	7916.0	7469.5	7421.6
60°	7297.3	7365.9	7970.4	9007.1	10275.6	10916.2	9933.9	8635.7	7542.0	6914.2	6839.2
62.5°	5843.8	5863.2	6752.4	8361.3	10885.2	12544.5	10315.7	7984.6	6453.4	5600.5	5570.7
64°	4205.2	4404.5	5346.8	7331.0	10618.5	13164.5	10095.6	7072.1	5242.0	4378.7	4238.9
65°	3145.2	3199.5	4310.1	6260.6	10148.7	13117.9	9668.5	6199.8	4341.1	3351.0	3195.7
67.5°	1188.2	1194.7	1590.7	3120.6	7224.9	11286.4	7378.9	3373.0	1828.9	1322.8	1274.9
70°	493.1	502.2	583.7	1049.7	3105.1	7246.9	3558.1	1216.7	669.2	542.3	534.6
72.5°	361.1	366.3	390.9	466.0	955.2	2975.6	1170.1	516.4	392.2	350.8	346.9
75°	283.5	286.0	304.2	343.0	445.2	824.5	486.7	354.6	299.0	269.2	266.6
77.5°	216.2	222.6	235.6	261.5	299.0	390.9	322.3	265.3	230.4	205.8	201.9
80°	148.8	156.6	181.2	191.6	200.6	253.7	220.0	200.6	179.9	150.1	141.1
82.5°	91.9	97.1	121.7	130.7	126.8	142.4	141.1	143.7	128.1	93.2	86.7
85°	47.9	50.5	66.0	68.6	63.4	58.2	72.5	84.1	79.0	53.1	51.8
87.5°	10.4	11.6	14.2	12.9	14.2	14.2	18.1	27.2	28.5	18.1	16.8
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)