

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: P456836

Luminaire Tested: **GALN-SA8A-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28008 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

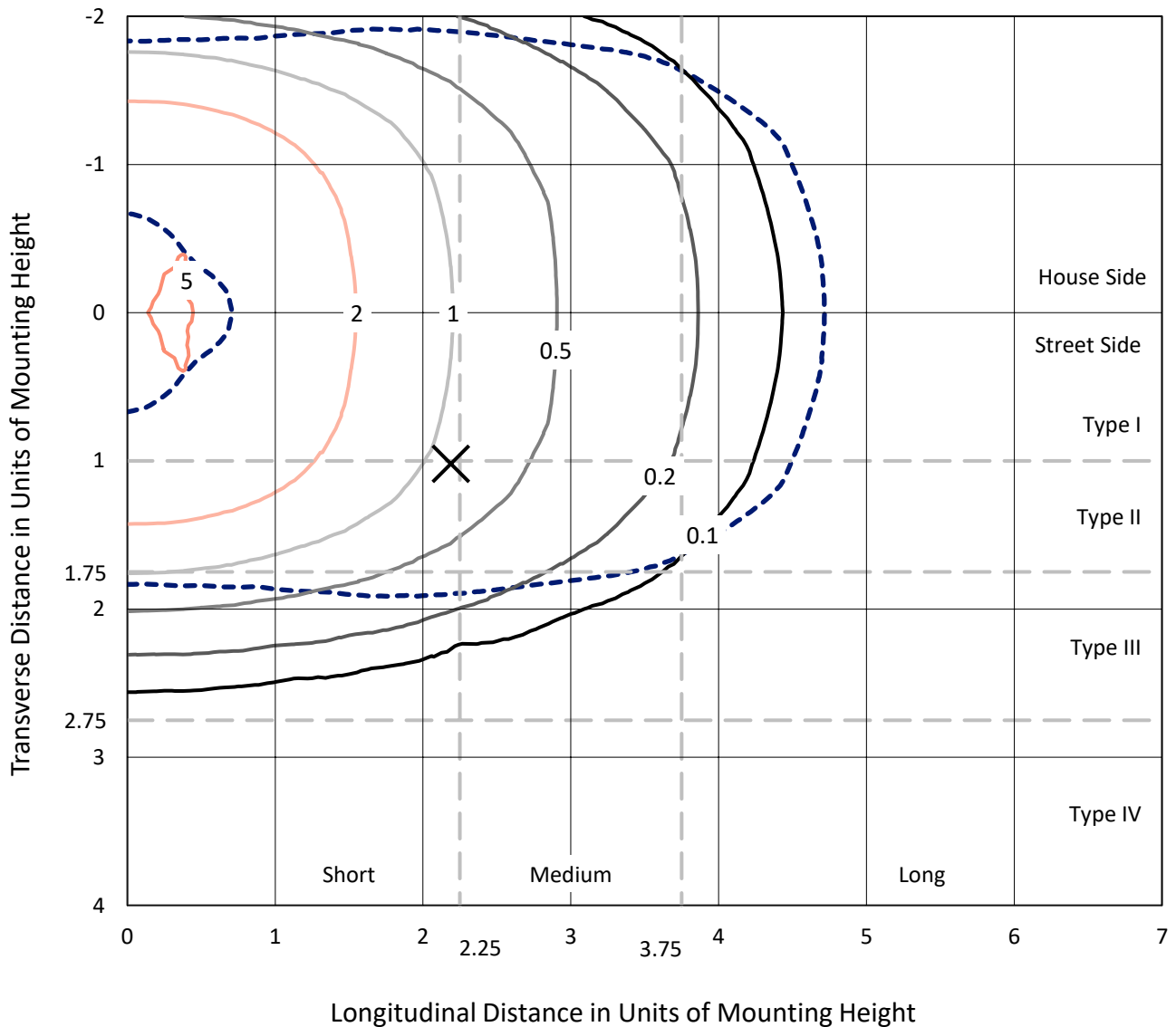
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

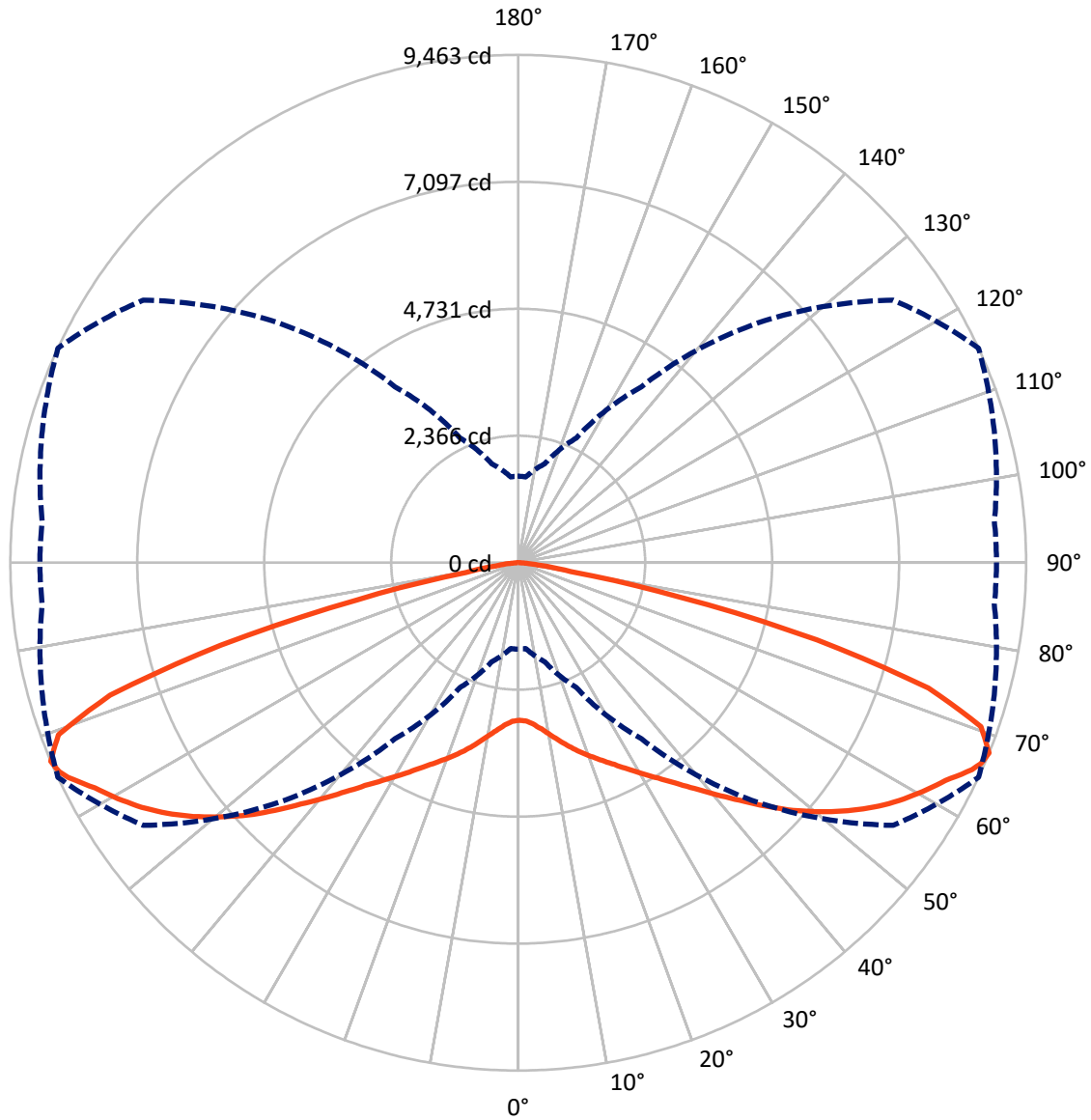
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GALN-SA8A-827-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14004.0	0.0	14004.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14004.0	0.0	14004.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28008.0	0.0	28008.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.3	1.0
10°-20°	968.4	3.5
20°-30°	1894.2	6.8
30°-40°	3221.8	11.5
40°-50°	5099.1	18.2
50°-60°	6761.3	24.1
60°-70°	6378.0	22.8
70°-80°	3153.0	11.3
80°-90°	243.0	0.9
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°	28008.0	100.0
0°-180°	28008.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456836

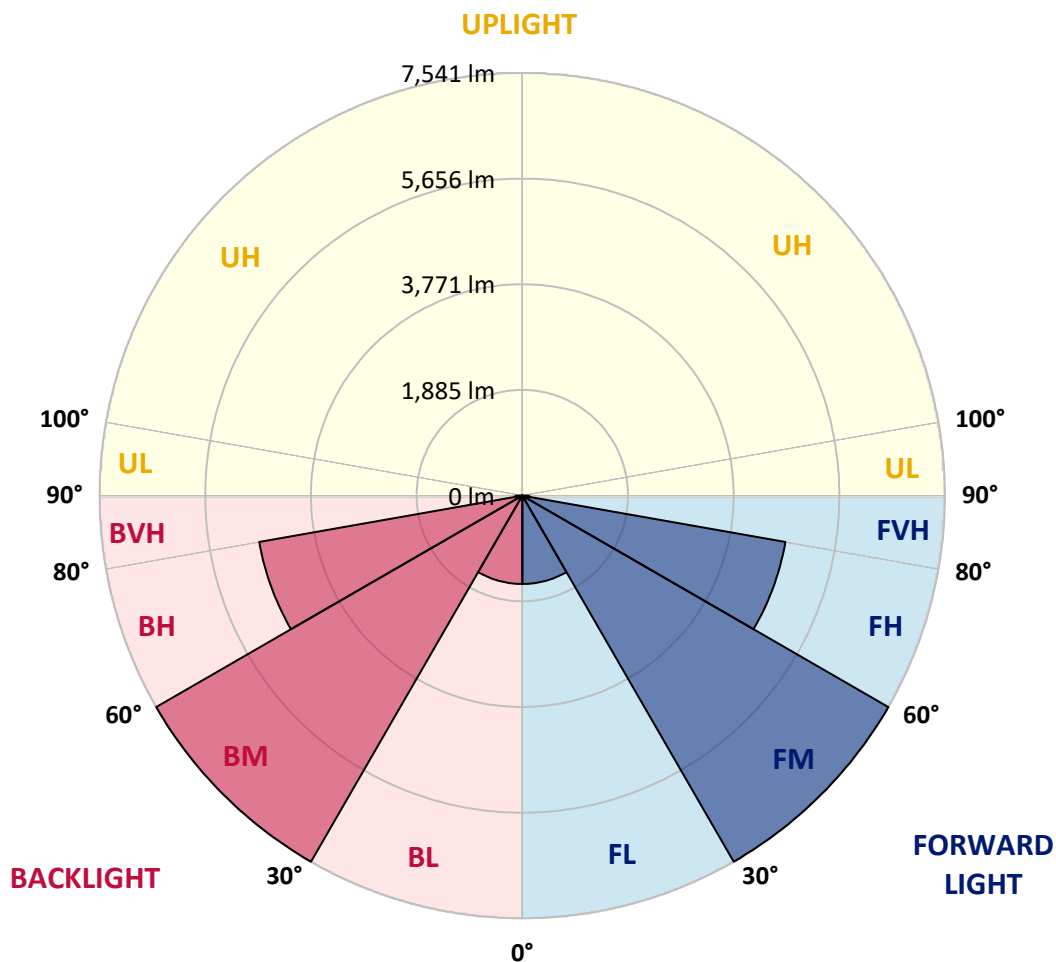
CATALOG NUMBER: GALN-SA8A-827-U-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.9	5.6			
FM	(30°-60°)	7541.1	26.9			
FH	(60°-80°)	4765.5	17.0			G2/5000
FVH	(80°-90°)	121.5	0.4			G2/225
BL	(0°-30°)	1575.9	5.6	B3/2500		
BM	(30°-60°)	7541.1	26.9	B4/8500		
BH	(60°-80°)	4765.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	121.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6	2933.6
2.5°	2918.6	2921.6	2924.6	2929.1	2935.1	2944.1	2950.1	2954.6	2966.6	2968.1	2966.6
5°	2908.1	2911.1	2918.6	2932.1	2951.6	2978.6	2999.6	3025.1	3044.6	3058.1	3055.1
7.5°	2906.6	2912.6	2924.6	2953.1	2990.6	3037.1	3085.1	3128.7	3166.2	3196.2	3191.7
10°	2930.6	2938.1	2957.6	2999.6	3058.1	3125.7	3193.2	3257.7	3311.7	3350.7	3364.3
12.5°	2971.1	2977.1	3013.1	3076.1	3160.2	3244.2	3320.7	3400.3	3475.3	3541.3	3541.3
15°	3041.6	3052.1	3097.2	3188.7	3292.2	3389.8	3467.8	3551.8	3632.9	3707.9	3730.4
17.5°	3139.2	3154.2	3221.7	3338.7	3470.8	3560.8	3634.4	3703.4	3773.9	3845.9	3856.4
20°	3272.7	3287.7	3377.8	3518.8	3674.9	3782.9	3832.4	3848.9	3883.4	3952.5	3961.5
22.5°	3454.3	3469.3	3569.8	3728.9	3903.0	4020.0	4041.0	4002.0	3993.0	4047.0	4053.0
25°	3659.9	3673.4	3788.9	3960.0	4140.0	4267.6	4261.6	4165.5	4111.5	4144.5	4153.5
27.5°	3890.9	3910.5	4027.5	4204.6	4399.6	4512.2	4494.2	4354.6	4239.1	4233.1	4236.1
30°	4186.6	4207.6	4318.6	4488.2	4680.2	4783.8	4746.3	4558.7	4380.1	4320.1	4320.1
32.5°	4498.7	4551.2	4663.7	4840.8	4990.9	5065.9	5008.9	4783.8	4546.7	4462.7	4458.2
35°	4905.3	4933.8	5044.9	5217.4	5330.0	5388.5	5279.0	5037.4	4764.3	4665.2	4651.7
37.5°	5303.0	5327.0	5456.0	5621.1	5757.6	5754.6	5606.1	5339.0	5034.4	4923.3	4914.3
40°	5709.6	5735.1	5882.2	6033.7	6170.3	6158.3	5978.2	5679.6	5355.5	5230.9	5255.0
42.5°	6062.3	6090.8	6257.3	6473.4	6596.5	6593.5	6384.9	6048.7	5711.1	5600.1	5621.1
45°	6383.4	6408.9	6602.5	6850.0	7030.1	7052.6	6824.5	6468.9	6122.3	5979.7	5985.7
47.5°	6610.0	6658.0	6860.6	7144.2	7388.7	7468.3	7244.7	6896.6	6497.4	6348.9	6357.9
50°	6782.5	6812.5	7033.1	7355.7	7664.9	7829.9	7649.8	7292.7	6872.6	6715.0	6736.0
52.5°	6803.5	6839.5	7079.6	7451.8	7847.9	8098.5	8010.0	7679.9	7255.2	7093.1	7138.2
55°	6632.5	6653.5	6940.1	7391.7	7919.9	8298.1	8320.6	8040.0	7619.8	7496.8	7526.8
57.5°	6144.8	6198.8	6561.9	7111.1	7820.9	8404.6	8553.2	8367.1	7989.0	7867.4	7915.4
60°	5345.0	5399.0	5763.6	6459.9	7447.3	8355.1	8745.3	8656.7	8323.6	8226.1	8251.6
62.5°	4188.1	4183.6	4635.2	5489.0	6704.5	8112.0	8887.8	8935.8	8653.7	8530.7	8569.7
65°	2714.5	2728.0	3164.7	4084.5	5583.6	7493.8	8919.3	9291.5	8977.8	8791.8	8820.3
66°	2183.3	2223.8	2594.5	3442.3	5011.9	7088.6	8824.8	9396.5	9076.9	8851.8	8865.3
67.5°	1611.6	1604.1	1908.7	2563.0	4002.0	6318.8	8529.2	9462.5	9189.4	8905.8	8911.8
70°	919.8	918.3	1026.4	1407.5	2352.9	4449.2	7189.2	9145.9	9417.5	9100.9	9084.4
72.5°	672.2	667.7	682.8	777.3	1147.9	2246.3	4959.3	7993.5	9300.5	9069.4	9022.9
75°	564.2	561.2	558.2	570.2	643.7	1017.4	2632.0	5750.1	8070.0	8512.7	8464.6
77.5°	460.7	460.7	462.2	459.2	462.2	535.7	1090.9	3082.1	4914.3	5486.0	5619.6
80°	360.1	358.6	384.1	373.6	349.6	343.6	483.2	991.9	1631.1	1622.1	1338.5
82.5°	265.6	247.6	292.6	285.1	258.1	219.1	282.1	423.2	544.7	354.1	262.6
85°	168.1	166.6	207.1	189.1	157.6	103.5	135.1	181.6	225.1	136.6	111.0
87.5°	30.0	28.5	66.0	48.0	48.0	30.0	37.5	49.5	73.5	51.0	37.5
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)