

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: P454280

Luminaire Tested: **GALN-SA5B-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454280  
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-SA5B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21862 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

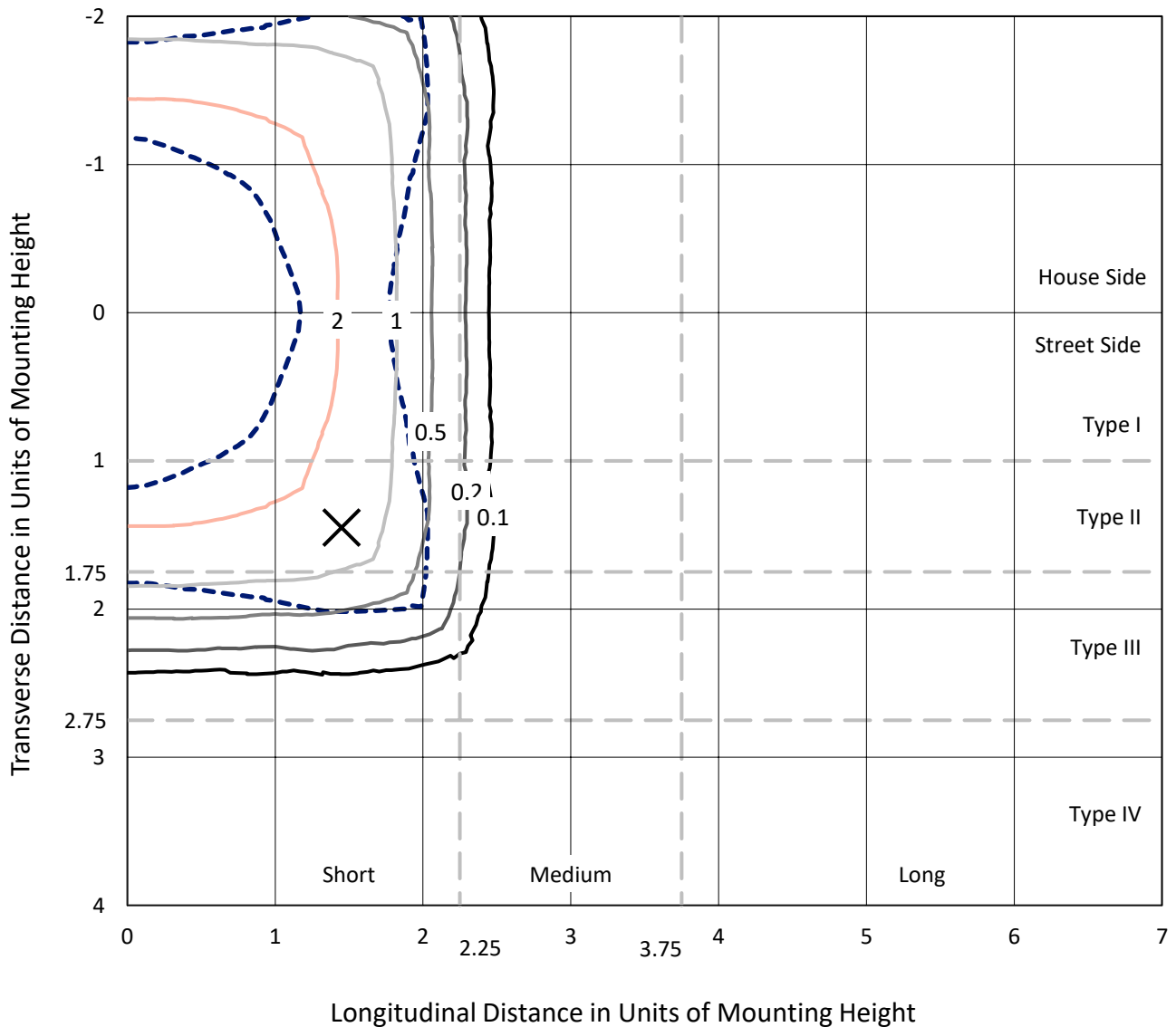
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

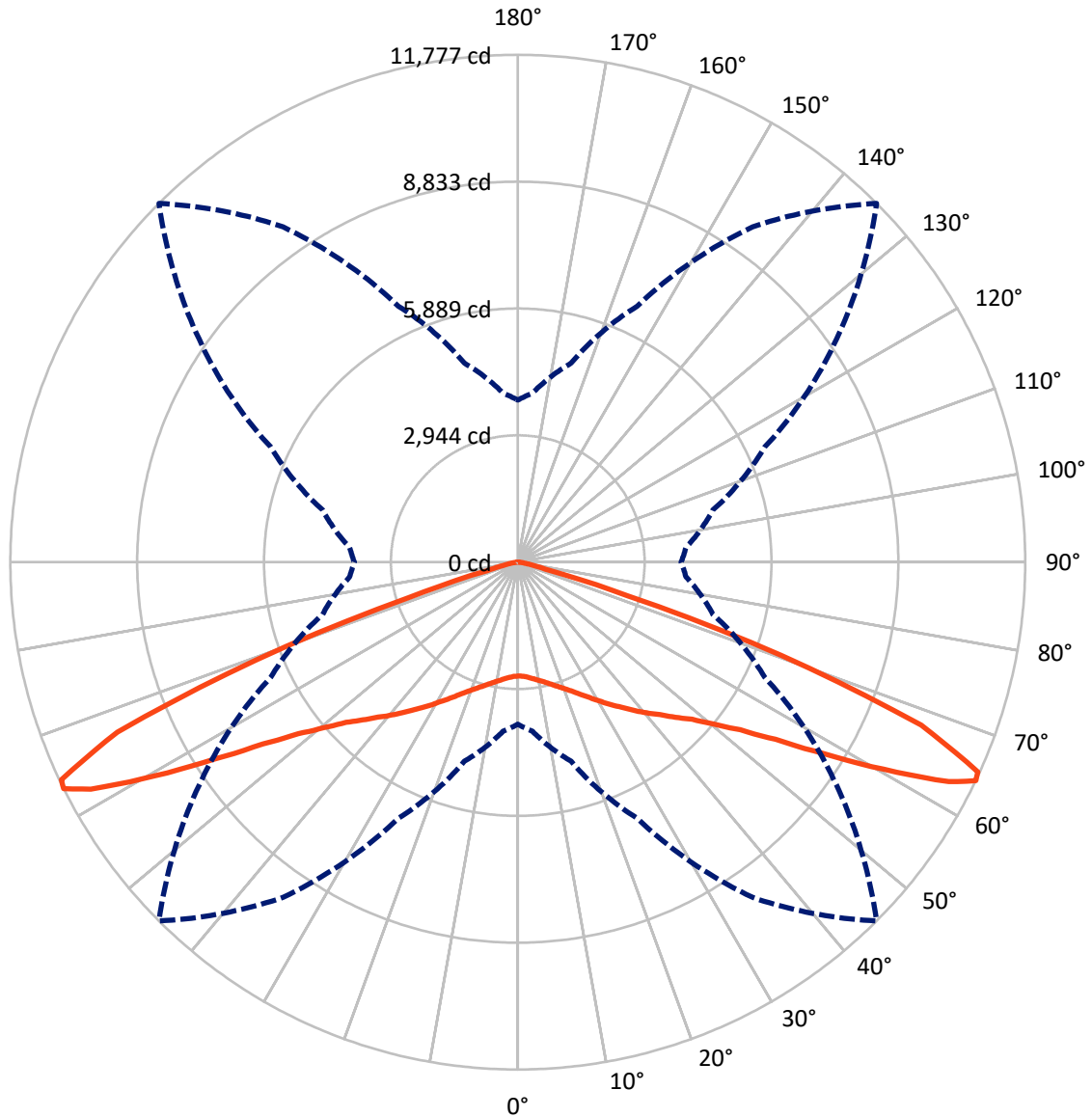
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	10931.0	0.0	10931.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10931.0	0.0	10931.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21862.0	0.0	21862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	1.2
10°-20°	837.4	3.8
20°-30°	1582.4	7.2
30°-40°	2620.6	12.0
40°-50°	4091.2	18.7
50°-60°	6324.9	28.9
60°-70°	5453.9	24.9
70°-80°	618.1	2.8
80°-90°	74.0	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°	21862.0	100.0
0°-180°	21862.0	100.0

**Coefficient of Utilization**



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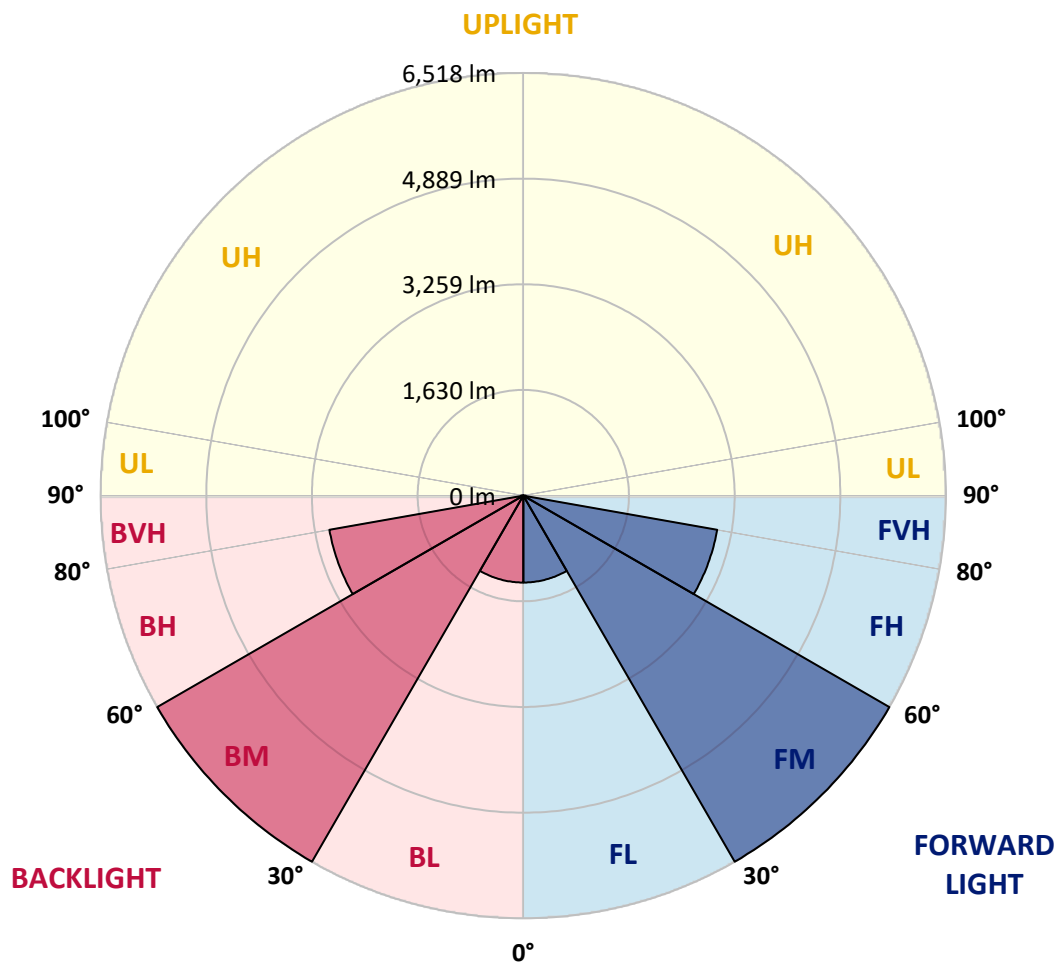
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.7	6.1			
FM	(30°-60°)	6518.3	29.8			
FH	(60°-80°)	3036.0	13.9			G2/5000
FVH	(80°-90°)	37.0	0.2			G1/100
BL	(0°-30°)	1339.7	6.1	B3/2500		
BM	(30°-60°)	6518.3	29.8	B4/8500		
BH	(60°-80°)	3036.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	37.0	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°	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4	2642.4
2.5°	2652.8	2658.6	2654.0	2652.8	2651.7	2651.7	2651.7	2652.8	2657.4	2660.9	2658.6
5°	2686.4	2691.0	2688.7	2687.5	2686.4	2687.5	2685.2	2684.1	2687.5	2687.5	2686.4
7.5°	2728.1	2733.9	2731.6	2733.9	2735.0	2736.2	2730.4	2725.8	2724.6	2728.1	2725.8
10°	2784.8	2789.4	2790.6	2791.8	2794.1	2792.9	2786.0	2777.9	2776.7	2775.6	2774.4
12.5°	2848.5	2852.0	2853.1	2857.8	2861.2	2862.4	2854.3	2847.3	2835.8	2838.1	2833.4
15°	2920.3	2927.2	2926.1	2933.0	2942.3	2944.6	2936.5	2924.9	2914.5	2908.7	2905.2
17.5°	3008.3	3012.9	3010.6	3017.6	3029.1	3034.9	3028.0	3012.9	3002.5	2989.8	2982.8
20°	3112.5	3120.6	3122.9	3122.9	3133.4	3139.1	3128.7	3124.1	3107.9	3098.6	3092.8
22.5°	3230.6	3234.1	3241.0	3248.0	3258.4	3256.1	3252.6	3245.7	3230.6	3222.5	3213.2
25°	3363.8	3367.3	3384.6	3399.7	3403.1	3400.8	3396.2	3392.7	3378.8	3360.3	3353.4
27.5°	3518.9	3525.9	3549.0	3562.9	3562.9	3564.1	3554.8	3566.4	3536.3	3514.3	3512.0
30°	3713.5	3718.1	3737.8	3751.7	3744.7	3738.9	3736.6	3748.2	3715.8	3676.4	3667.2
32.5°	3905.7	3921.9	3939.3	3969.4	3945.1	3934.6	3932.3	3940.4	3903.4	3859.4	3846.6
35°	4111.8	4123.4	4155.8	4181.3	4159.3	4135.0	4145.4	4170.9	4126.9	4067.8	4065.5
37.5°	4339.9	4350.3	4392.0	4418.7	4402.4	4360.8	4378.1	4408.2	4364.2	4291.3	4276.2
40°	4577.3	4599.3	4651.4	4679.2	4652.6	4597.0	4629.4	4661.8	4622.4	4537.9	4504.3
42.5°	4843.6	4878.3	4953.6	4967.5	4916.6	4841.3	4898.0	4950.1	4922.3	4825.1	4812.3
45°	5155.1	5175.9	5268.6	5298.7	5228.0	5134.3	5204.9	5299.8	5279.0	5166.7	5142.4
47.5°	5503.6	5523.3	5619.4	5664.6	5575.4	5449.2	5576.6	5700.5	5687.7	5567.3	5555.7
50°	5915.9	5920.5	6053.6	6104.6	6015.4	5906.6	6020.1	6174.1	6123.1	5969.1	5966.8
52.5°	6367.4	6373.2	6541.1	6639.6	6589.8	6467.0	6601.3	6695.1	6565.4	6364.0	6348.9
55°	6758.8	6787.8	7017.0	7278.7	7347.0	7257.9	7298.4	7254.4	6934.8	6652.3	6608.3
57.5°	6918.6	6975.4	7323.9	7812.5	8257.2	8389.2	8076.5	7657.4	7081.9	6682.4	6639.6
60°	6528.4	6589.8	7130.5	8058.0	9192.8	9766.0	8887.1	7725.7	6747.2	6185.6	6118.5
62.5°	5228.0	5245.4	6040.9	7480.2	9738.2	11222.6	9228.7	7143.3	5773.4	5010.4	4983.7
64°	3762.1	3940.4	4783.4	6558.5	9499.6	11777.3	9031.8	6326.9	4689.6	3917.3	3792.2
65°	2813.8	2862.4	3855.9	5600.9	9079.3	11735.6	8649.7	5546.5	3883.7	2997.9	2858.9
67.5°	1063.0	1068.8	1423.1	2791.8	6463.6	10097.1	6601.3	3017.6	1636.2	1183.4	1140.6
70°	441.2	449.3	522.2	939.1	2777.9	6483.2	3183.1	1088.5	598.6	485.2	478.2
72.5°	323.1	327.7	349.7	416.9	854.6	2662.1	1046.8	462.0	350.9	313.8	310.3
75°	253.6	255.9	272.1	306.9	398.3	737.6	435.4	317.3	267.5	240.8	238.5
77.5°	193.4	199.2	210.7	233.9	267.5	349.7	288.3	237.4	206.1	184.1	180.6
80°	133.2	140.1	162.1	171.4	179.5	227.0	196.8	179.5	161.0	134.3	126.2
82.5°	82.2	86.8	108.8	117.0	113.5	127.4	126.2	128.5	114.6	83.4	77.6
85°	42.8	45.2	59.1	61.4	56.7	52.1	64.8	75.3	70.6	47.5	46.3
87.5°	9.3	10.4	12.7	11.6	12.7	12.7	16.2	24.3	25.5	16.2	15.1
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)