

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: P949975

Luminaire Tested: **GALN-SB4C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27333 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

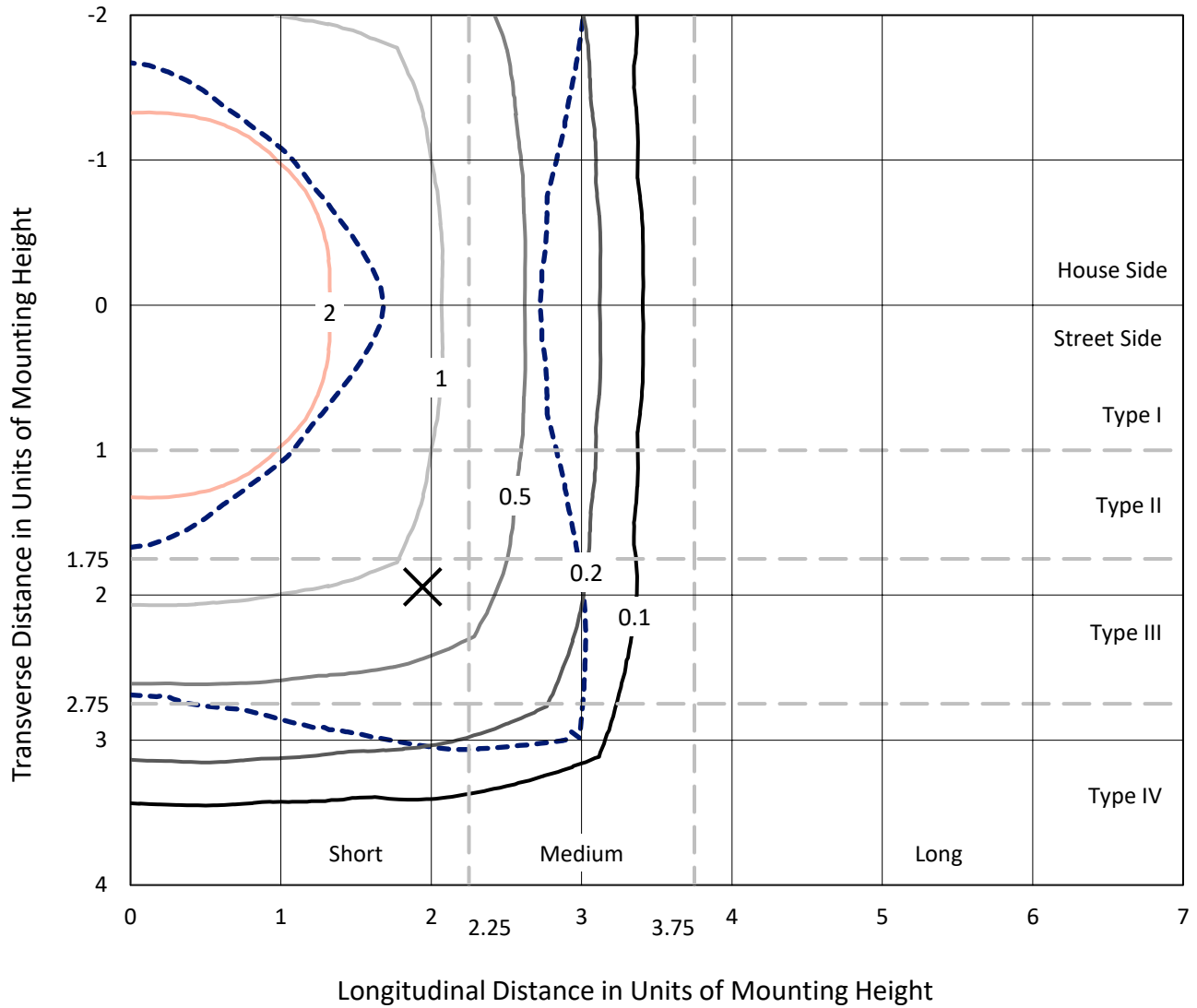
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

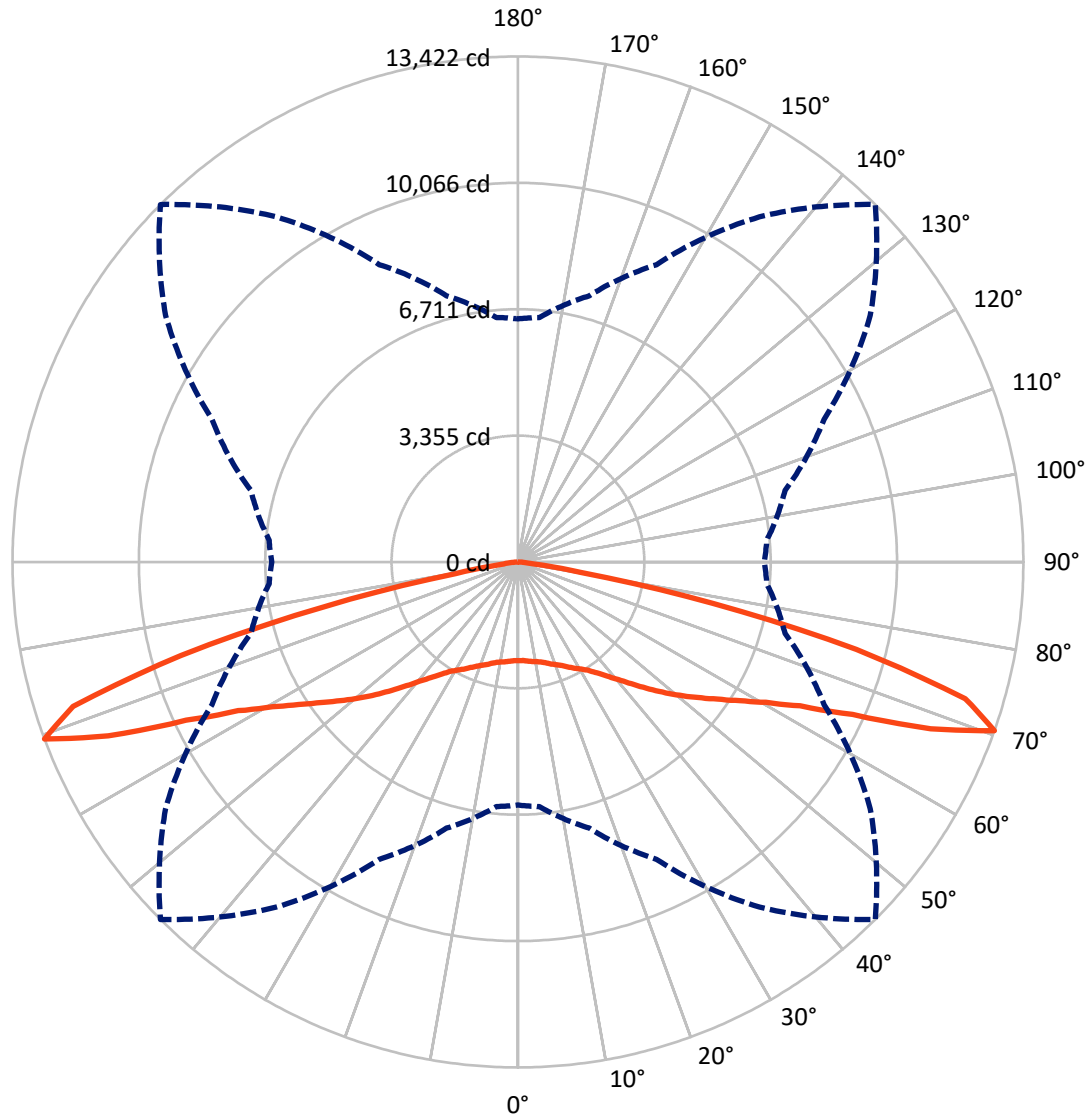
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13666.5	0.0	13666.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13666.5	0.0	13666.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27333.0	0.0	27333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	0.9
10°-20°	788.7	2.9
20°-30°	1409.6	5.2
30°-40°	2284.9	8.4
40°-50°	3721.7	13.6
50°-60°	5674.4	20.8
60°-70°	8441.7	30.9
70°-80°	4601.0	16.8
80°-90°	156.7	0.6
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°	27333.0	100.0
0°-180°	27333.0	100.0



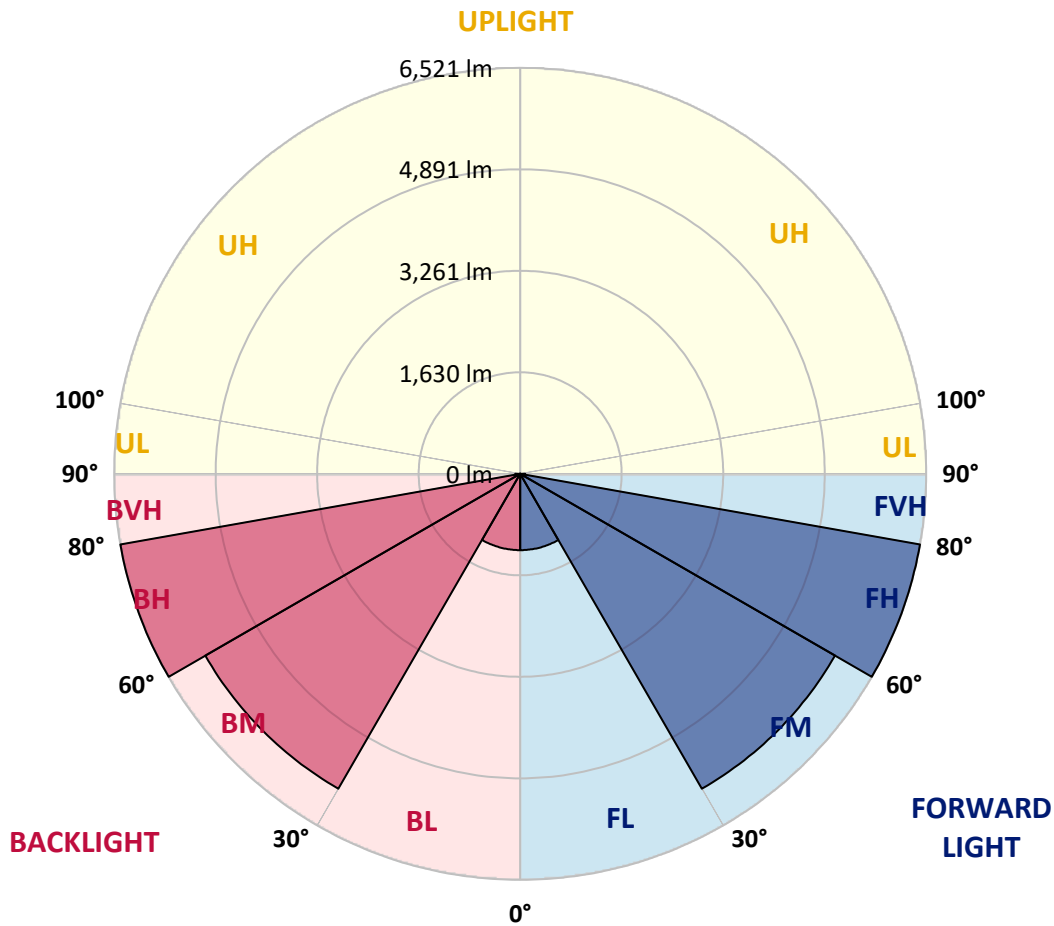
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1226.3	4.5			
FM	(30°-60°)	5840.5	21.4			
FH	(60°-80°)	6521.3	23.9			G3/7500
FVH	(80°-90°)	78.3	0.3			G1/100
BL	(0°-30°)	1226.3	4.5	B3/2500		
BM	(30°-60°)	5840.5	21.4	B4/8500		
BH	(60°-80°)	6521.3	23.9	B5		G3/7500
BVH	(80°-90°)	78.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2630.6	2633.3	2627.8	2625.1	2622.3	2618.2	2619.6	2626.5	2631.9	2630.6
5°	2652.5	2655.3	2651.2	2649.8	2644.3	2642.9	2642.9	2649.8	2653.9	2651.2
7.5°	2677.2	2681.3	2674.5	2673.1	2670.4	2667.6	2666.2	2673.1	2677.2	2677.2
10°	2700.6	2704.7	2699.2	2695.1	2692.3	2692.3	2689.6	2695.1	2701.9	2700.6
12.5°	2725.3	2728.0	2722.5	2719.8	2719.8	2723.9	2719.8	2722.5	2728.0	2725.3
15°	2755.4	2756.8	2755.4	2759.6	2766.4	2780.1	2767.8	2765.0	2767.8	2760.9
17.5°	2796.6	2799.4	2804.8	2814.4	2824.1	2848.8	2826.8	2819.9	2819.9	2806.2
20°	2847.4	2851.5	2859.7	2876.2	2888.5	2911.9	2889.9	2880.3	2876.2	2858.4
22.5°	2900.9	2907.8	2920.1	2942.1	2964.0	2986.0	2964.0	2947.6	2935.2	2911.9
25°	2962.6	2970.9	2990.1	3025.8	3056.0	3087.5	3061.4	3028.5	3003.8	2970.9
27.5°	3050.5	3060.1	3083.4	3127.3	3165.7	3193.2	3168.5	3125.9	3091.6	3051.8
30°	3174.0	3183.6	3211.0	3257.7	3283.8	3301.6	3285.1	3252.2	3211.0	3165.7
32.5°	3333.2	3345.5	3375.7	3419.6	3425.1	3427.8	3422.3	3405.9	3375.7	3320.8
35°	3534.9	3548.6	3582.9	3618.6	3613.1	3618.6	3610.3	3604.9	3582.9	3519.8
37.5°	3781.9	3798.3	3834.0	3861.5	3847.7	3840.9	3842.2	3843.6	3831.3	3761.3
40°	4068.7	4090.6	4116.7	4145.5	4122.2	4101.6	4115.3	4126.3	4115.3	4044.0
42.5°	4363.7	4395.3	4422.7	4463.9	4444.7	4418.6	4437.8	4450.1	4426.8	4350.0
45°	4691.7	4721.9	4757.5	4819.3	4805.6	4778.1	4805.6	4808.3	4768.5	4677.9
47.5°	5030.6	5062.2	5115.7	5198.0	5192.5	5162.3	5198.0	5178.8	5128.0	5019.6
50°	5351.7	5395.6	5477.9	5593.2	5604.2	5567.1	5615.2	5578.1	5493.0	5357.2
52.5°	5653.6	5700.3	5830.6	5987.0	6026.8	5978.8	6043.3	5978.8	5851.2	5676.9
55°	5970.6	6022.7	6177.8	6382.3	6461.8	6426.2	6486.5	6389.1	6208.0	5996.7
57.5°	6343.8	6375.4	6560.6	6803.5	6938.0	6946.2	6973.7	6809.0	6589.5	6349.3
60°	6748.6	6792.5	6994.3	7285.2	7497.9	7566.5	7537.7	7293.4	7038.2	6762.4
62.5°	7267.3	7315.4	7556.9	7905.4	8241.6	8411.8	8299.3	7945.2	7629.6	7298.9
65°	7696.8	7750.4	8186.7	8808.4	9420.4	9762.1	9479.4	8827.6	8259.5	7792.9
67.5°	7385.4	7451.2	8136.0	9277.7	10799.5	11819.0	10851.6	9417.6	8304.7	7672.1
70°	6455.0	6516.7	7315.4	8710.9	11187.8	13421.8	11421.1	8967.5	7341.4	6633.4
72.5°	4285.5	4484.5	5292.7	6966.8	9989.8	12420.1	10088.6	6825.5	4909.8	4275.9
75°	1421.6	1580.8	2132.4	3611.7	6691.0	9288.6	6369.9	3195.9	1689.2	1215.8
77.5°	358.2	413.0	569.5	1033.3	2669.0	5288.6	2402.8	843.9	459.7	321.1
80°	174.3	192.1	274.4	344.4	668.3	1681.0	627.1	323.8	216.8	167.4
82.5°	96.1	97.4	155.1	194.9	248.4	435.0	258.0	189.4	124.9	101.5
85°	59.0	57.6	82.3	104.3	104.3	155.1	123.5	104.3	71.4	63.1
87.5°	23.3	23.3	30.2	32.9	28.8	39.8	31.6	34.3	27.4	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2618.2
2631.9
2652.5
2677.2
2700.6
2723.9
2760.9
2806.2
2858.4
2910.5
2969.5
3050.5
3165.7
3322.2
3519.8
3761.3
4044.0
4355.5
4687.5
5012.8
5354.4
5660.5
5967.8
6316.4
6718.4
7241.3
7716.1
7577.5
6538.7
4137.3
1149.9
286.8
153.7
101.5
65.9
27.4
0.0

OF REPORT)