

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: P941100

Luminaire Tested: **GALN-SB4C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28160 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

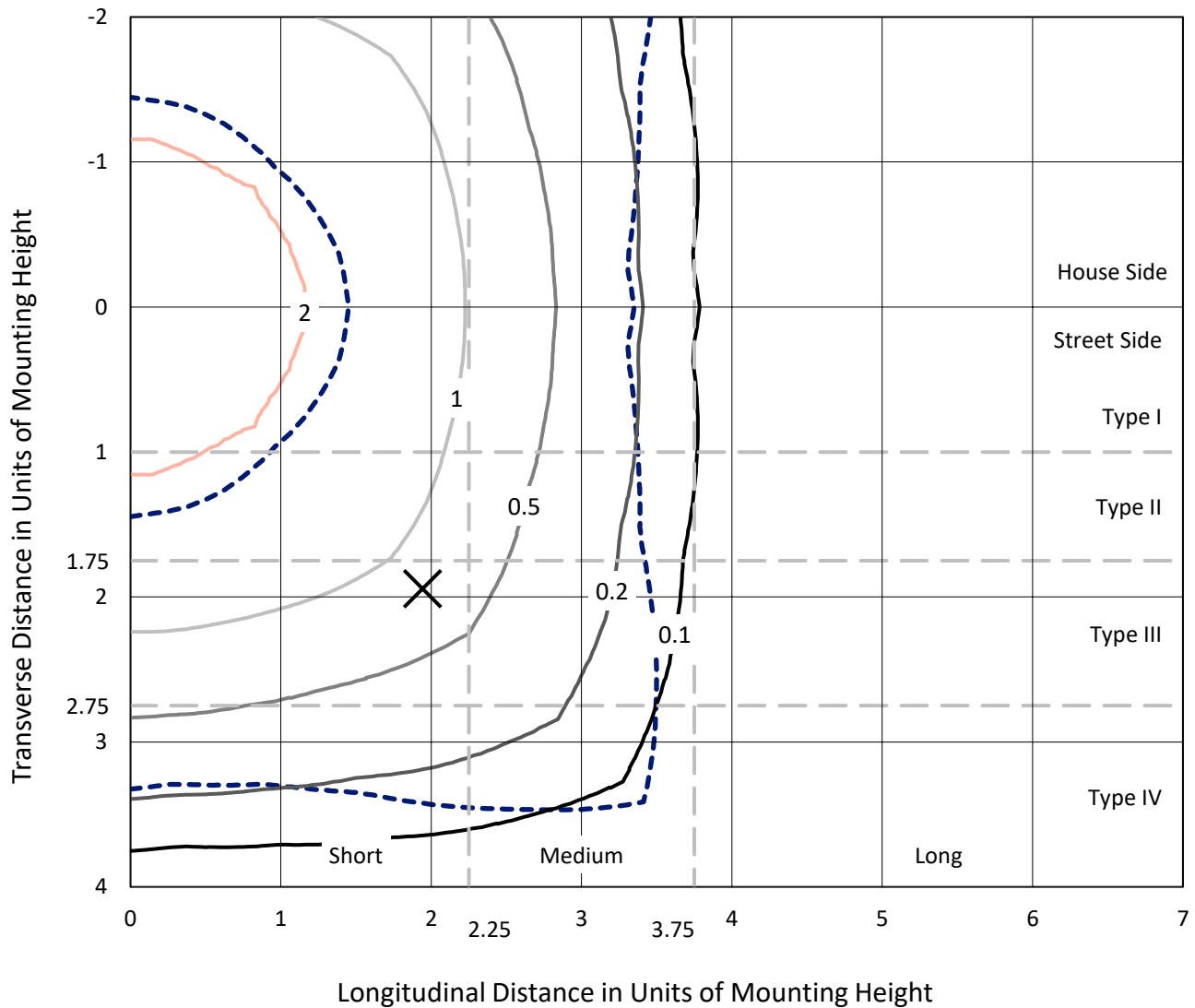


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

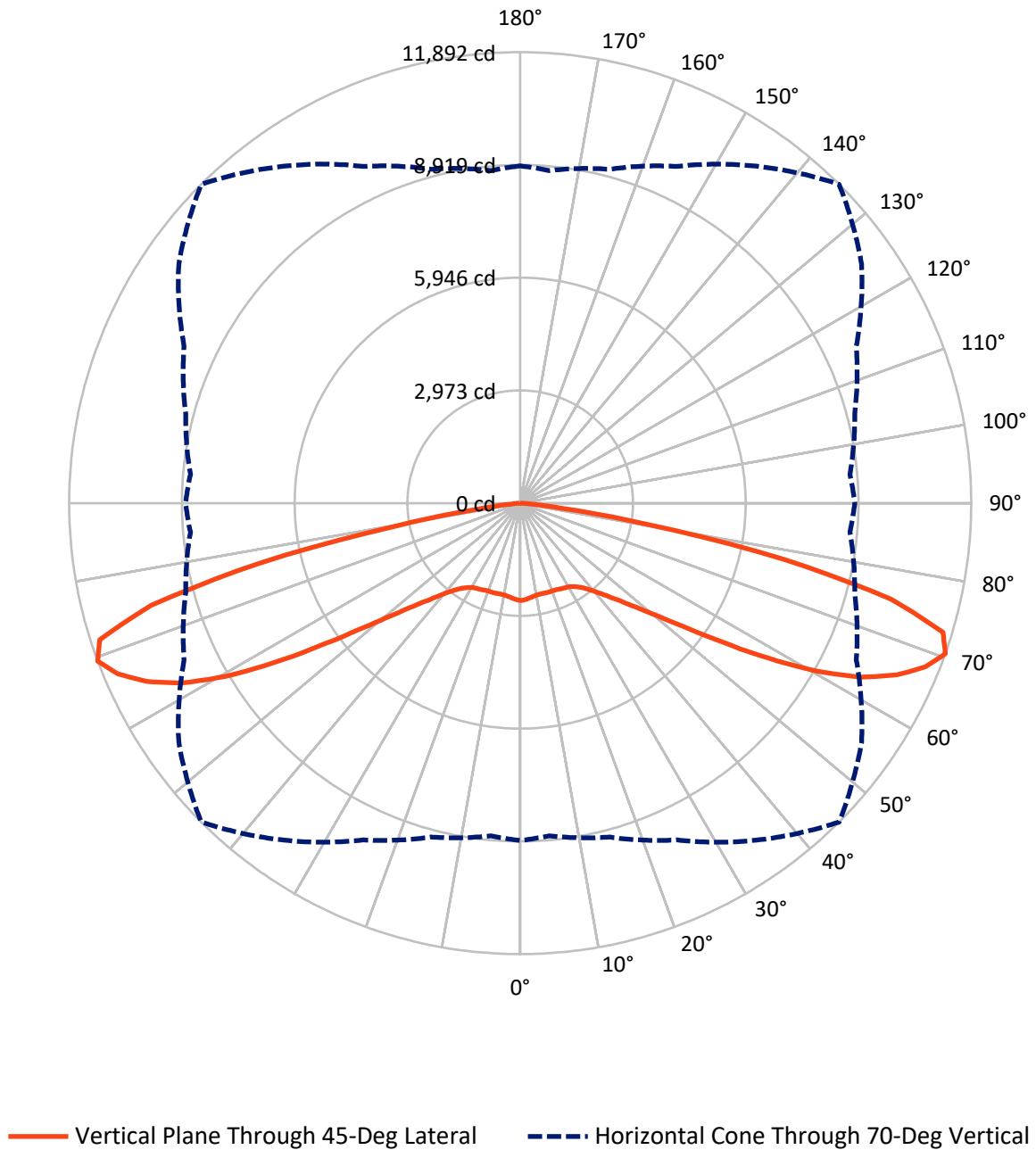


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28160.0	0.0	28160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	0.8
10°-20°	701.6	2.5
20°-30°	1167.6	4.1
30°-40°	1765.8	6.3
40°-50°	2934.3	10.4
50°-60°	5537.0	19.7
60°-70°	9349.4	33.2
70°-80°	6143.5	21.8
80°-90°	321.9	1.1
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°	28160.0	100.0
0°-180°	28160.0	100.0

Coefficient of Utilization



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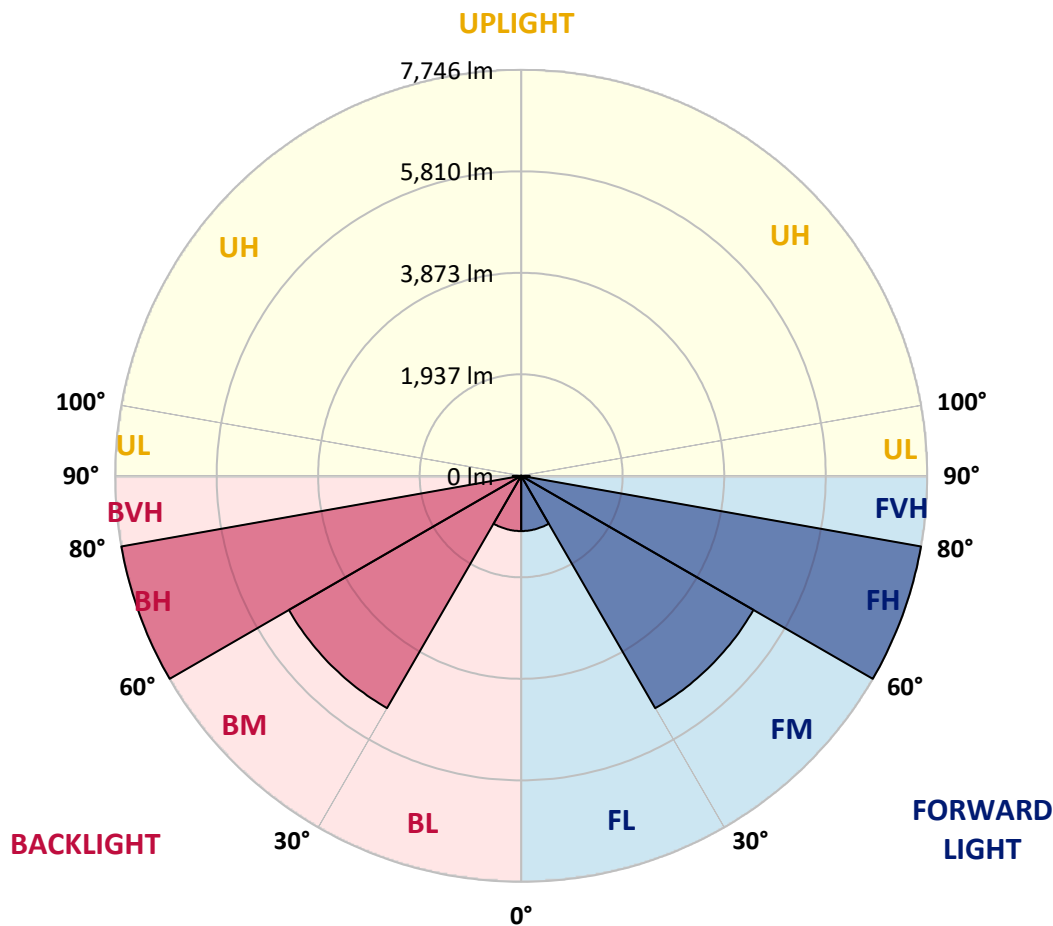
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.1	3.7			
FM	(30°-60°)	5118.5	18.2			
FH	(60°-80°)	7746.4	27.5			G4/12000
FVH	(80°-90°)	160.9	0.6			G2/225
BL	(0°-30°)	1054.1	3.7	B3/2500		
BM	(30°-60°)	5118.5	18.2	B4/8500		
BH	(60°-80°)	7746.4	27.5	B5		G4/12000
BVH	(80°-90°)	160.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8	2568.8
2.5°	2552.7	2560.0	2557.0	2551.2	2551.2	2546.8	2551.2	2554.1	2558.5	2561.4	2560.0
5°	2519.0	2524.8	2523.4	2519.0	2520.5	2516.1	2519.0	2523.4	2526.3	2527.8	2527.8
7.5°	2489.7	2495.6	2492.6	2485.3	2485.3	2480.9	2482.4	2486.8	2491.2	2492.6	2492.6
10°	2482.4	2488.3	2479.5	2467.8	2463.4	2457.5	2459.0	2463.4	2472.2	2476.5	2476.5
12.5°	2485.3	2489.7	2480.9	2463.4	2459.0	2453.1	2453.1	2457.5	2469.2	2475.1	2476.5
15°	2494.1	2498.5	2485.3	2466.3	2461.9	2457.5	2456.1	2461.9	2475.1	2485.3	2486.8
17.5°	2510.2	2514.6	2494.1	2467.8	2461.9	2463.4	2461.9	2466.3	2486.8	2505.8	2505.8
20°	2524.8	2527.8	2500.0	2467.8	2461.9	2463.4	2461.9	2470.7	2497.0	2523.4	2524.8
22.5°	2529.2	2532.2	2505.8	2478.0	2473.6	2475.1	2473.6	2482.4	2507.3	2533.6	2533.6
25°	2530.7	2535.1	2514.6	2492.6	2500.0	2502.9	2500.0	2501.4	2520.5	2543.9	2542.4
27.5°	2552.7	2558.5	2539.5	2520.5	2524.8	2523.4	2527.8	2532.2	2546.8	2570.2	2564.4
30°	2598.0	2602.4	2586.3	2567.3	2564.4	2554.1	2567.3	2581.9	2598.0	2618.5	2614.1
32.5°	2672.7	2681.5	2661.0	2640.5	2627.3	2621.5	2631.7	2656.6	2678.5	2700.5	2691.7
35°	2797.1	2802.9	2783.9	2745.9	2722.4	2722.4	2731.2	2763.4	2798.6	2826.4	2816.1
37.5°	2972.7	2980.1	2946.4	2901.0	2865.9	2865.9	2877.6	2911.3	2964.0	3003.5	2988.8
40°	3186.4	3196.7	3154.2	3107.4	3073.7	3067.9	3082.5	3120.6	3170.3	3220.1	3204.0
42.5°	3444.0	3455.7	3400.1	3359.1	3332.8	3332.8	3340.1	3375.2	3420.6	3482.1	3477.7
45°	3773.4	3793.9	3717.7	3676.8	3651.9	3657.7	3662.1	3692.9	3733.8	3804.1	3801.2
47.5°	4165.6	4186.1	4105.6	4063.2	4058.8	4086.6	4069.0	4091.0	4112.9	4193.4	4170.0
50°	4610.6	4645.7	4590.1	4587.2	4596.0	4647.2	4606.2	4617.9	4593.0	4644.3	4613.5
52.5°	5155.1	5206.3	5196.1	5213.6	5311.7	5417.1	5323.4	5282.4	5188.7	5204.8	5150.7
55°	5815.2	5892.8	5907.4	6012.8	6235.3	6450.4	6251.4	6086.0	5886.9	5850.3	5793.2
57.5°	6566.1	6627.5	6697.8	6913.0	7328.6	7710.7	7328.6	6962.7	6649.5	6574.9	6522.2
60°	7374.0	7450.1	7517.5	7835.1	8452.8	8989.9	8441.0	7860.0	7445.7	7344.7	7256.9
62.5°	8242.0	8340.1	8386.9	8739.6	9459.8	10100.9	9470.0	8766.0	8306.4	8198.1	8110.3
65°	9074.8	9155.3	9208.0	9584.2	10272.1	10914.7	10318.9	9625.2	9152.4	9010.4	8940.2
67.5°	9462.7	9506.6	9635.4	10061.3	10787.3	11520.6	10910.3	10106.7	9578.3	9329.5	9332.4
70°	8894.8	8805.5	9115.8	9797.9	10848.8	11892.4	10989.3	9777.4	9130.4	8726.5	8823.1
72.5°	6873.4	6719.8	7258.4	8424.9	10146.2	11655.3	10216.5	8490.8	7593.6	6773.9	6977.4
75°	3739.7	3565.5	4309.1	5784.5	8091.2	10102.3	8277.1	5949.9	4797.9	3711.9	3953.4
77.5°	1055.3	989.4	1589.6	2798.6	4866.7	7093.0	5054.1	2860.0	1885.2	1118.3	1242.7
80°	323.5	313.2	424.5	843.1	2066.7	3397.2	1986.2	853.3	540.1	341.0	360.1
82.5°	191.7	175.6	210.8	307.4	526.9	1067.0	512.3	320.5	257.6	172.7	187.4
85°	109.8	102.5	124.4	149.3	177.1	226.9	147.8	152.2	137.6	92.2	96.6
87.5°	45.4	41.0	48.3	46.8	41.0	52.7	39.5	46.8	55.6	36.6	33.7
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)