

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: P940590

Luminaire Tested: **GALN-SB3D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940590
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-SB3D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28645 lumens
Efficiency: N/A
Efficacy: 131.3 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): 218.1
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



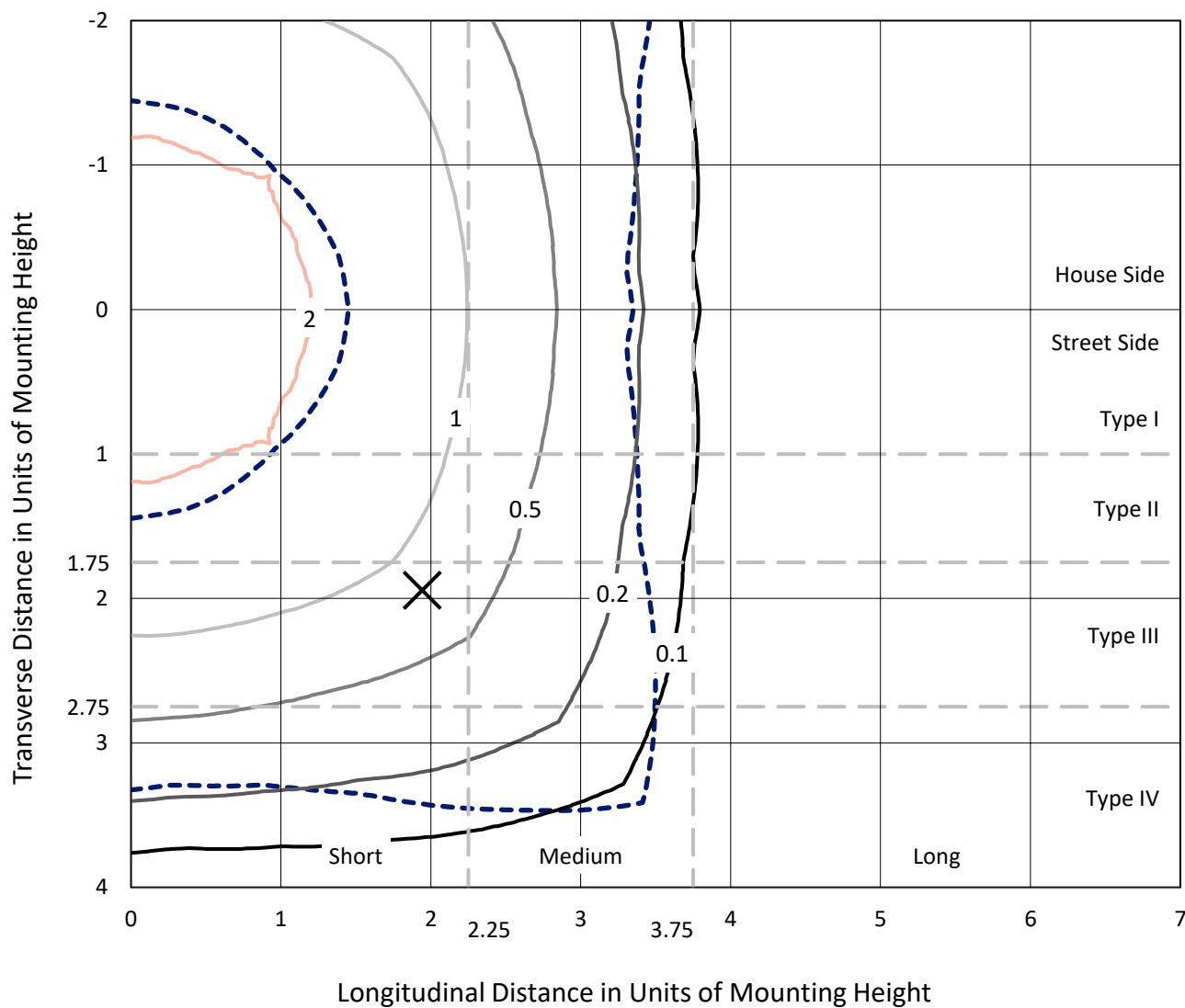
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Iso-Footcandle Lines of Horizontal Illumination

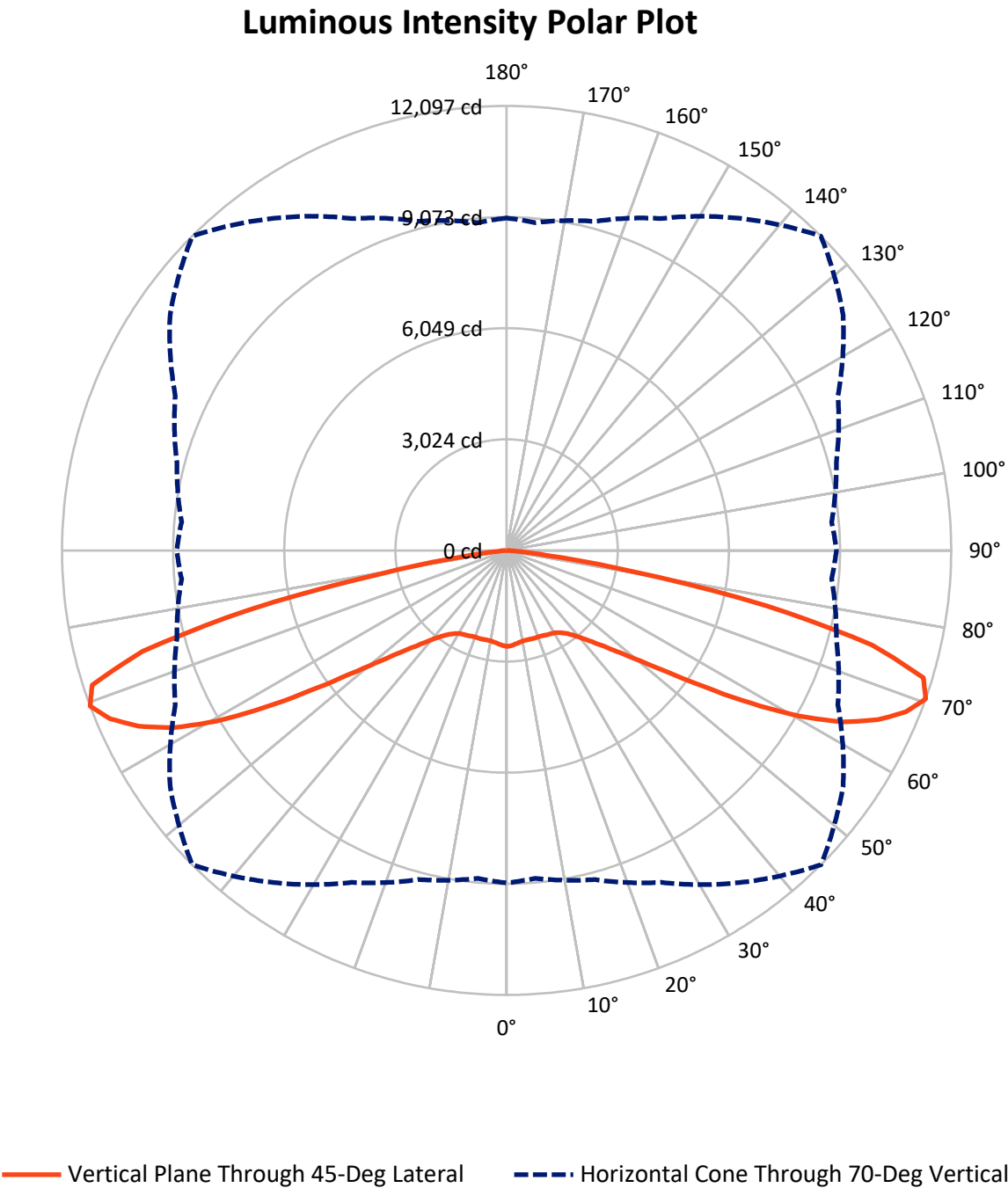
✕ Max cd

--- 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14322.5	0.0	14322.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14322.5	0.0	14322.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28645.0	0.0	28645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	0.8
10°-20°	713.7	2.5
20°-30°	1187.7	4.1
30°-40°	1796.2	6.3
40°-50°	2984.9	10.4
50°-60°	5632.3	19.7
60°-70°	9510.4	33.2
70°-80°	6249.3	21.8
80°-90°	327.4	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°	28645.0	100.0
0°-180°	28645.0	100.0

Coefficient of Utilization



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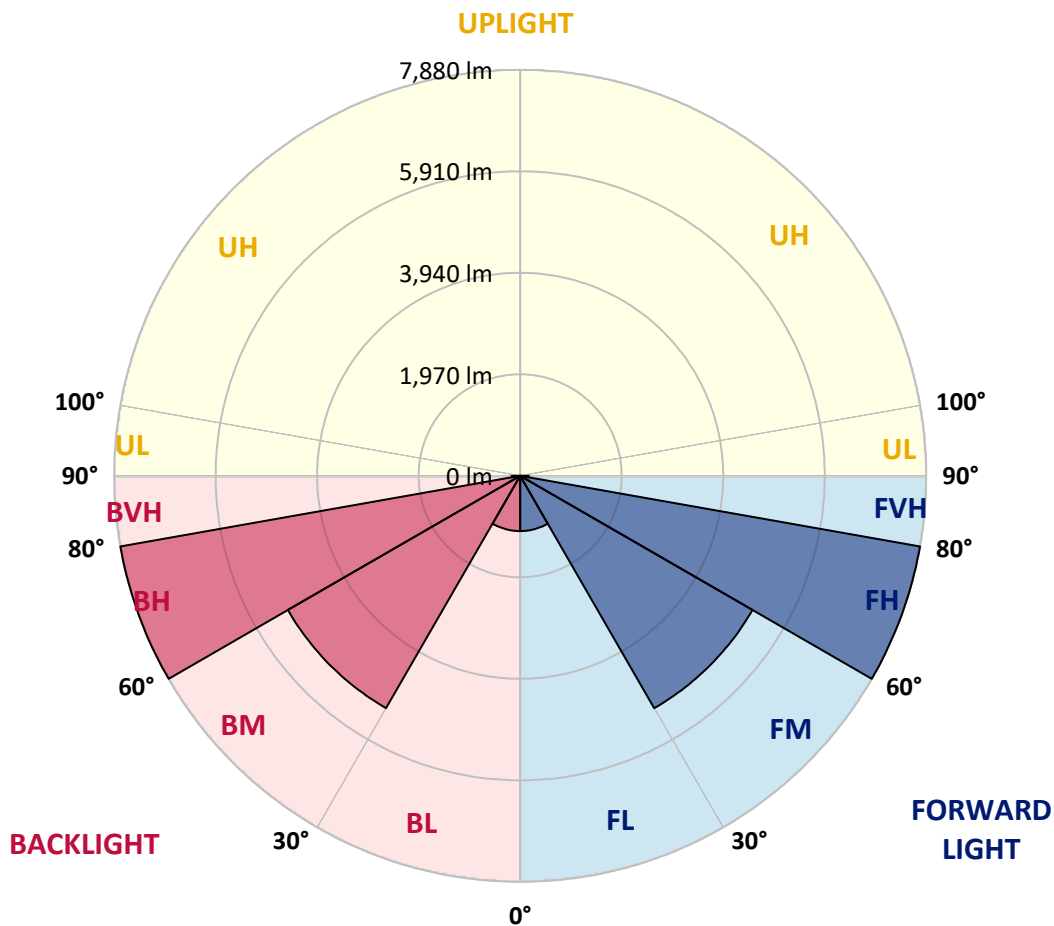
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1072.3	3.7			
FM	(30°-60°)	5206.7	18.2			
FH	(60°-80°)	7879.9	27.5			G4/12000
FVH	(80°-90°)	163.7	0.6			G2/225
BL	(0°-30°)	1072.3	3.7	B3/2500		
BM	(30°-60°)	5206.7	18.2	B4/8500		
BH	(60°-80°)	7879.9	27.5	B5		G4/12000
BVH	(80°-90°)	163.7	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°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	2596.6	2604.1	2601.1	2595.1	2595.1	2590.7	2595.1	2598.1	2602.6	2605.6	2604.1
5°	2562.4	2568.3	2566.8	2562.4	2563.9	2559.4	2562.4	2566.8	2569.8	2571.3	2571.3
7.5°	2532.6	2538.6	2535.6	2528.1	2528.1	2523.7	2525.2	2529.6	2534.1	2535.6	2535.6
10°	2525.2	2531.1	2522.2	2510.3	2505.8	2499.8	2501.3	2505.8	2514.7	2519.2	2519.2
12.5°	2528.1	2532.6	2523.7	2505.8	2501.3	2495.4	2495.4	2499.8	2511.8	2517.7	2519.2
15°	2537.1	2541.5	2528.1	2508.8	2504.3	2499.8	2498.4	2504.3	2517.7	2528.1	2529.6
17.5°	2553.4	2557.9	2537.1	2510.3	2504.3	2505.8	2504.3	2508.8	2529.6	2549.0	2549.0
20°	2568.3	2571.3	2543.0	2510.3	2504.3	2505.8	2504.3	2513.2	2540.0	2566.8	2568.3
22.5°	2572.8	2575.8	2549.0	2520.7	2516.2	2517.7	2516.2	2525.2	2550.5	2577.3	2577.3
25°	2574.3	2578.8	2557.9	2535.6	2543.0	2546.0	2543.0	2544.5	2563.9	2587.7	2586.2
27.5°	2596.6	2602.6	2583.2	2563.9	2568.3	2566.8	2571.3	2575.8	2590.7	2614.5	2608.5
30°	2642.8	2647.2	2630.9	2611.5	2608.5	2598.1	2611.5	2626.4	2642.8	2663.6	2659.2
32.5°	2718.7	2727.6	2706.8	2686.0	2672.6	2666.6	2677.0	2702.3	2724.7	2747.0	2738.1
35°	2845.3	2851.2	2831.9	2793.2	2769.3	2769.3	2778.3	2811.0	2846.8	2875.0	2864.6
37.5°	3023.9	3031.4	2997.1	2951.0	2915.2	2915.2	2927.2	2961.4	3015.0	3055.2	3040.3
40°	3241.3	3251.7	3208.6	3160.9	3126.7	3120.7	3135.6	3174.3	3224.9	3275.6	3259.2
42.5°	3503.4	3515.3	3458.7	3417.0	3390.2	3390.2	3397.6	3433.4	3479.5	3542.1	3537.6
45°	3838.4	3859.2	3781.8	3740.1	3714.8	3720.7	3725.2	3756.5	3798.2	3869.6	3866.6
47.5°	4237.4	4258.2	4176.3	4133.2	4128.7	4157.0	4139.1	4161.4	4183.8	4265.7	4241.8
50°	4690.0	4725.7	4669.2	4666.2	4675.1	4727.2	4685.5	4697.4	4672.1	4724.2	4693.0
52.5°	5243.9	5296.0	5285.6	5303.4	5403.2	5510.4	5415.1	5373.4	5278.1	5294.5	5239.4
55°	5915.4	5994.3	6009.2	6116.4	6342.7	6561.5	6359.0	6190.8	5988.3	5951.1	5893.0
57.5°	6679.2	6741.7	6813.2	7032.0	7454.9	7843.5	7454.9	7082.6	6764.0	6688.1	6634.5
60°	7501.0	7578.4	7646.9	7970.0	8598.3	9144.8	8586.4	7995.3	7574.0	7471.2	7381.9
62.5°	8383.9	8483.7	8531.3	8890.2	9622.7	10274.8	9633.1	8917.0	8449.4	8339.3	8249.9
65°	9231.1	9313.0	9366.6	9749.2	10449.0	11102.6	10496.7	9790.9	9310.0	9165.6	9094.1
67.5°	9625.7	9670.3	9801.4	10234.6	10973.1	11719.0	11098.2	10280.8	9743.3	9490.2	9493.2
70°	9048.0	8957.2	9272.8	9966.6	11035.6	12097.2	11178.6	9945.8	9287.7	8876.8	8975.0
72.5°	6991.8	6835.5	7383.4	8570.0	10321.0	11856.0	10392.4	8637.0	7724.4	6890.6	7097.5
75°	3804.1	3626.9	4383.3	5884.1	8230.6	10276.3	8419.7	6052.3	4880.6	3775.8	4021.5
77.5°	1073.5	1006.5	1616.9	2846.8	4950.6	7215.2	5141.1	2909.3	1917.7	1137.5	1264.1
80°	329.0	318.6	431.8	857.6	2102.3	3455.7	2020.4	868.0	549.4	346.9	366.3
82.5°	195.0	178.7	214.4	312.7	536.0	1085.4	521.1	326.1	262.0	175.7	190.6
85°	111.7	104.2	126.6	151.9	180.2	230.8	150.4	154.8	140.0	93.8	98.3
87.5°	46.2	41.7	49.1	47.6	41.7	53.6	40.2	47.6	56.6	37.2	34.2
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)