

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: P942860

Luminaire Tested: **GALN-SB7A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942860
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-SB7A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28059 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

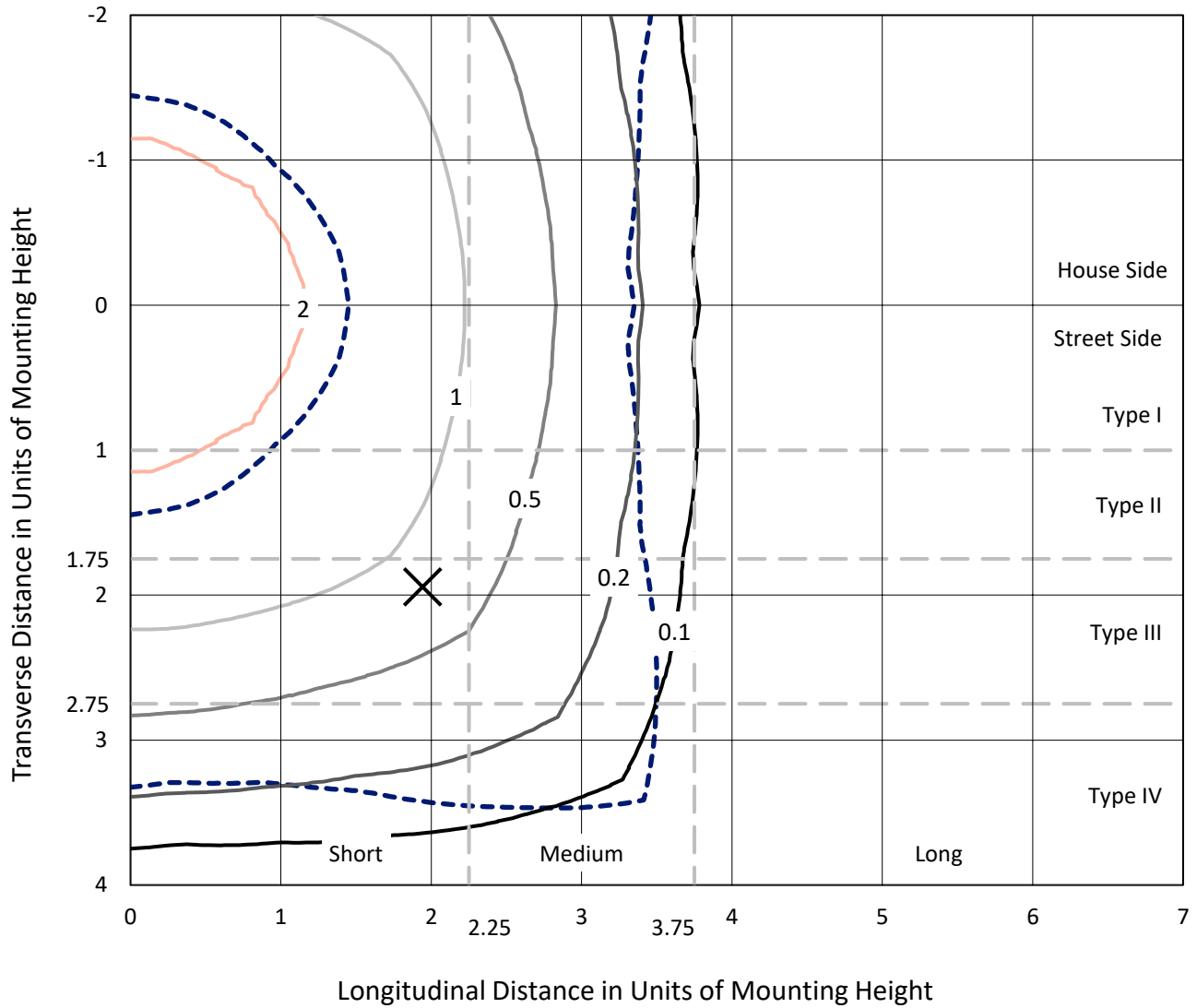
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942860
 CATALOG NUMBER: GALN-SB7A-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

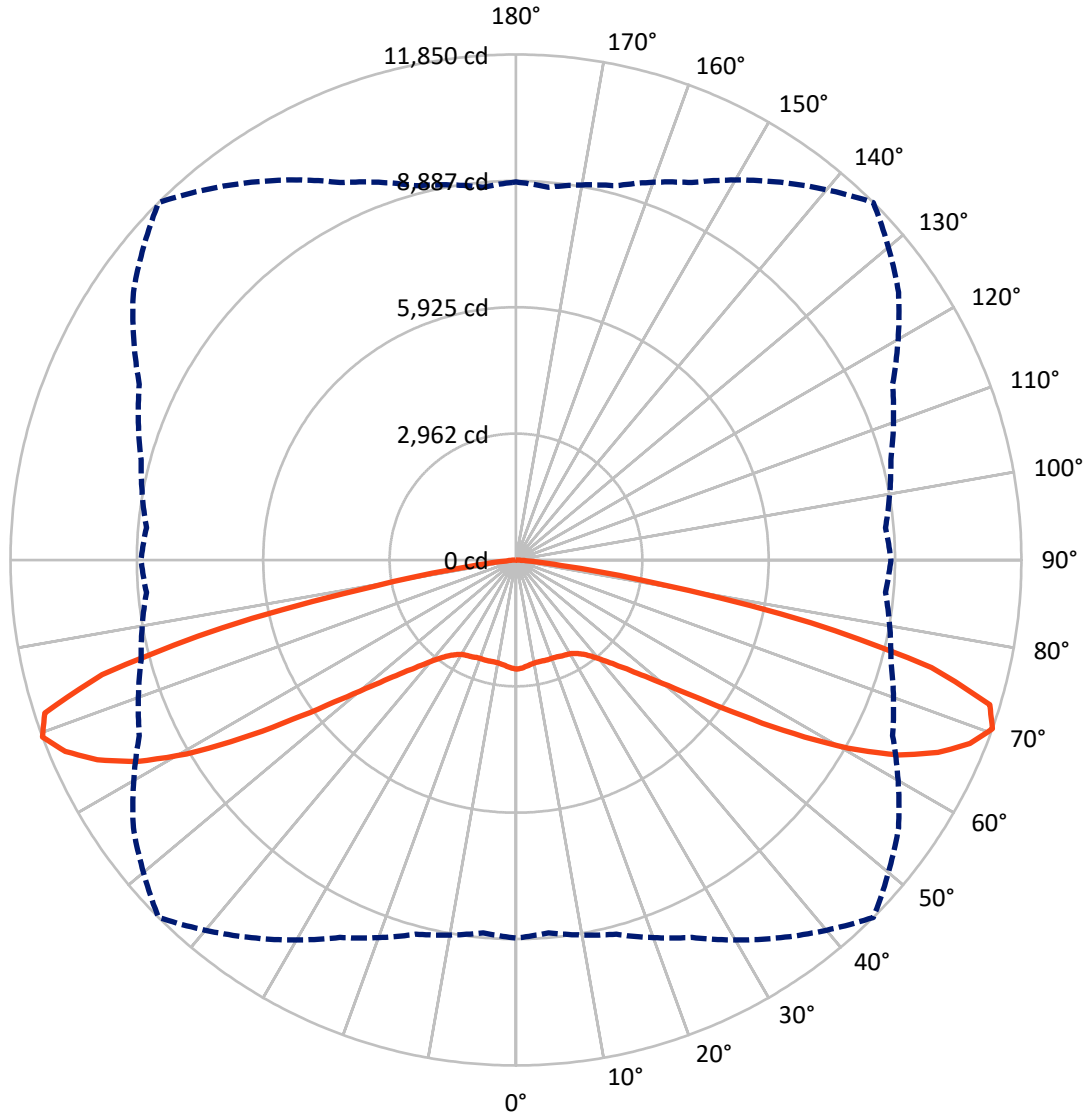
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P942860
CATALOG NUMBER: GALN-SB7A-827-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P942860

CATALOG NUMBER: GALN-SB7A-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14029.5	0.0	14029.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14029.5	0.0	14029.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28059.0	0.0	28059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	0.8
10°-20°	699.1	2.5
20°-30°	1163.4	4.1
30°-40°	1759.5	6.3
40°-50°	2923.8	10.4
50°-60°	5517.1	19.7
60°-70°	9315.8	33.2
70°-80°	6121.5	21.8
80°-90°	320.7	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°	28059.0	100.0
0°-180°	28059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942860

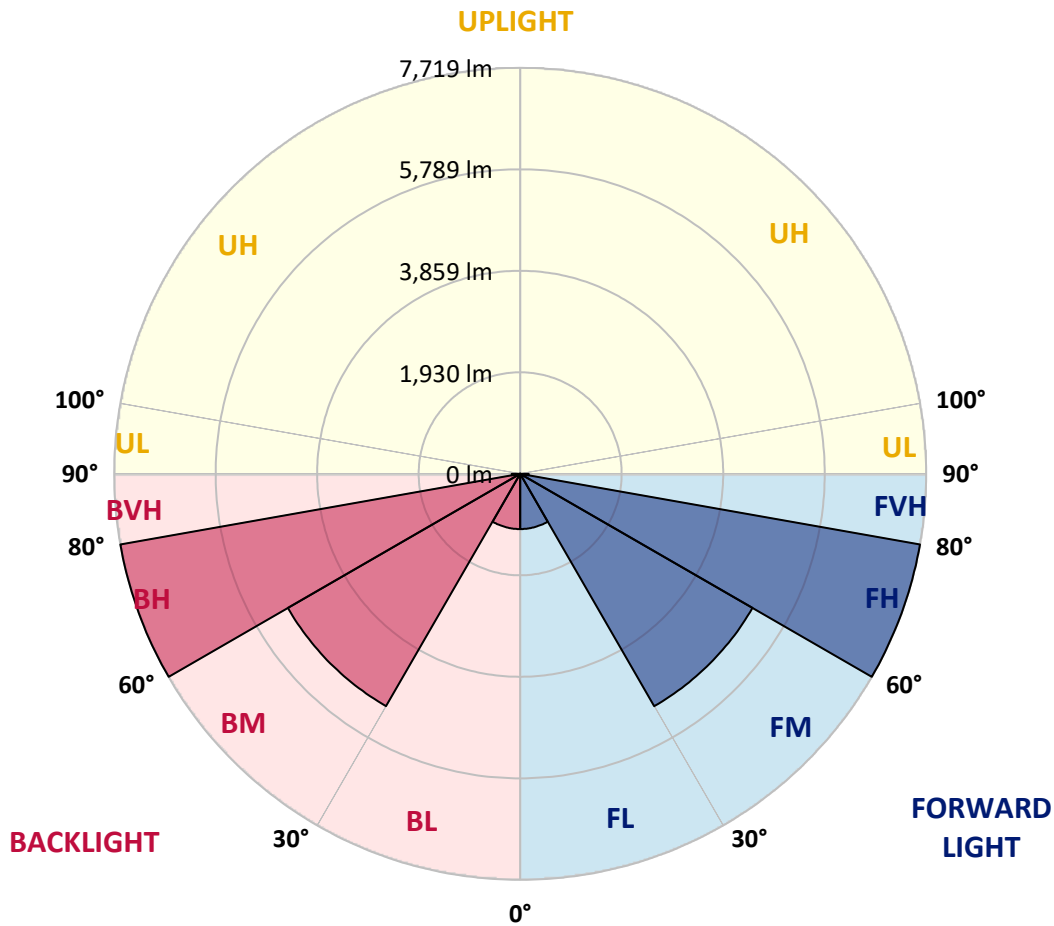
CATALOG NUMBER: GALN-SB7A-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.3	3.7			
FM (30°-60°)	5100.2	18.2			
FH (60°-80°)	7718.7	27.5			G4/12000
FVH (80°-90°)	160.4	0.6			G2/225
BL (0°-30°)	1050.3	3.7	B3/2500		
BM (30°-60°)	5100.2	18.2	B4/8500		
BH (60°-80°)	7718.7	27.5	B5		G4/12000
BVH (80°-90°)	160.4	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



REPORT NUMBER: P942860
 CATALOG NUMBER: GALN-SB7A-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5
2.5°	2543.5	2550.8	2547.9	2542.0	2542.0	2537.7	2542.0	2545.0	2549.3	2552.3
5°	2510.0	2515.8	2514.3	2510.0	2511.4	2507.0	2510.0	2514.3	2517.3	2518.7
7.5°	2480.8	2486.6	2483.7	2476.4	2476.4	2472.0	2473.5	2477.9	2482.2	2483.7
10°	2473.5	2479.3	2470.6	2458.9	2454.5	2448.7	2450.2	2454.5	2463.3	2467.7
12.5°	2476.4	2480.8	2472.0	2454.5	2450.2	2444.3	2444.3	2448.7	2460.4	2466.2
15°	2485.2	2489.5	2476.4	2457.5	2453.1	2448.7	2447.2	2453.1	2466.2	2476.4
17.5°	2501.2	2505.6	2485.2	2458.9	2453.1	2454.5	2453.1	2457.5	2477.9	2496.8
20°	2515.8	2518.7	2491.0	2458.9	2453.1	2454.5	2453.1	2461.8	2488.1	2514.3
22.5°	2520.2	2523.1	2496.8	2469.1	2464.7	2466.2	2464.7	2473.5	2498.3	2524.5
25°	2521.6	2526.0	2505.6	2483.7	2491.0	2493.9	2491.0	2492.5	2511.4	2534.8
27.5°	2543.5	2549.3	2530.4	2511.4	2515.8	2514.3	2518.7	2523.1	2537.7	2561.0
30°	2588.7	2593.1	2577.0	2558.1	2555.2	2545.0	2558.1	2572.7	2588.7	2609.1
32.5°	2663.1	2671.8	2651.4	2631.0	2617.9	2612.0	2622.3	2647.1	2668.9	2690.8
35°	2787.1	2792.9	2773.9	2736.0	2712.7	2712.7	2721.4	2753.5	2788.5	2816.2
37.5°	2962.1	2969.4	2935.8	2890.6	2855.6	2855.6	2867.3	2900.8	2953.3	2992.7
40°	3175.0	3185.2	3142.9	3096.2	3062.7	3056.9	3071.5	3109.4	3159.0	3208.5
42.5°	3431.7	3443.4	3387.9	3347.1	3320.8	3320.8	3328.1	3363.1	3408.4	3469.6
45°	3759.8	3780.3	3704.4	3663.6	3638.8	3644.6	3649.0	3679.6	3720.5	3790.5
47.5°	4150.7	4171.1	4090.9	4048.6	4044.2	4071.9	4054.4	4076.3	4098.2	4178.4
50°	4594.1	4629.1	4573.6	4570.7	4579.5	4630.5	4589.7	4601.3	4576.6	4627.6
52.5°	5136.6	5187.6	5177.4	5194.9	5292.6	5397.7	5304.3	5263.5	5170.1	5186.2
55°	5794.3	5871.6	5886.2	5991.2	6212.9	6427.3	6229.0	6064.2	5865.8	5829.3
57.5°	6542.5	6603.8	6673.8	6888.2	7302.4	7683.0	7302.4	6937.8	6625.7	6551.3
60°	7347.6	7423.4	7490.5	7807.0	8422.4	8957.7	8410.8	7831.8	7419.0	7318.4
62.5°	8212.4	8310.1	8356.8	8708.3	9425.8	10064.6	9436.0	8734.5	8276.6	8168.7
65°	9042.3	9122.5	9175.0	9549.8	10235.3	10875.5	10281.9	9590.6	9119.6	8978.1
67.5°	9428.8	9472.5	9600.8	10025.3	10748.6	11479.3	10871.1	10070.5	9544.0	9296.0
70°	8862.9	8773.9	9083.1	9762.7	10809.9	11849.7	10949.9	9742.3	9097.7	8695.2
72.5°	6848.8	6695.7	7232.4	8394.7	10109.8	11613.5	10179.8	8460.4	7566.3	6749.6
75°	3726.3	3552.7	4293.6	5763.7	8062.2	10066.1	8247.4	5928.5	4780.7	3698.6
77.5°	1051.5	985.9	1583.9	2788.5	4849.3	7067.6	5036.0	2849.8	1878.5	1114.2
80°	322.3	312.1	422.9	840.1	2059.3	3385.0	1979.1	850.3	538.2	339.8
82.5°	191.1	175.0	210.0	306.3	525.0	1063.2	510.5	319.4	256.7	172.1
85°	109.4	102.1	124.0	148.8	176.5	226.1	147.3	151.7	137.1	91.9
87.5°	45.2	40.8	48.1	46.7	40.8	52.5	39.4	46.7	55.4	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2559.5
2550.8
2518.7
2483.7
2467.7
2467.7
2477.9
2496.8
2515.8
2524.5
2533.3
2555.2
2604.8
2682.1
2806.0
2978.1
3192.5
3465.2
3787.5
4155.1
4597.0
5132.2
5772.5
6498.8
7230.9
8081.2
8908.1
9299.0
8791.4
6952.3
3939.2
1238.2
358.8
186.7
96.3
33.5
0.0

OF REPORT)