

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: P947477

Luminaire Tested: **GALN-SB2D-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

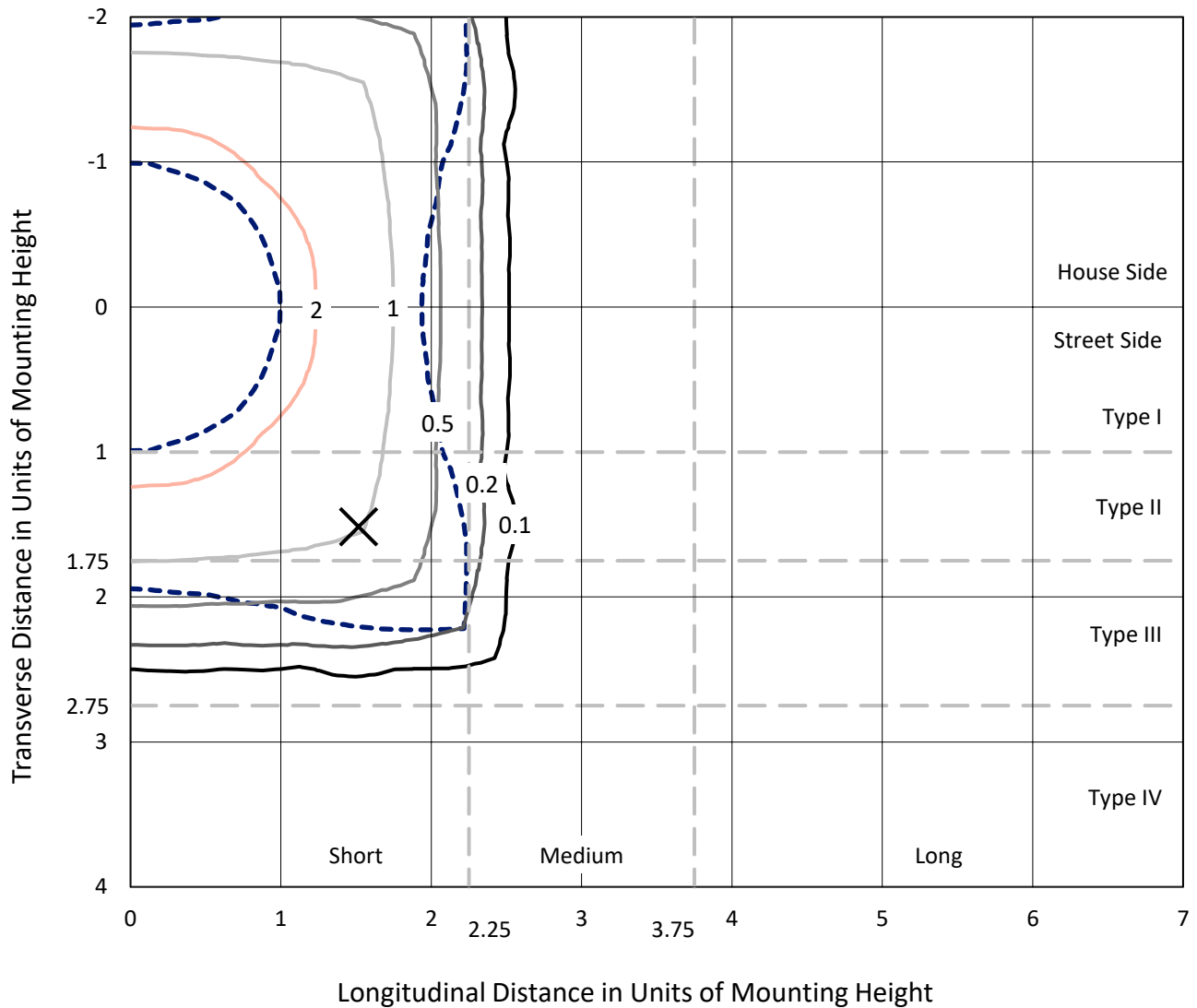
Lumens per Lamp: N/A  
Luminaire Lumens: 18543 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947477  
 CATALOG NUMBER: GALN-SB2D-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

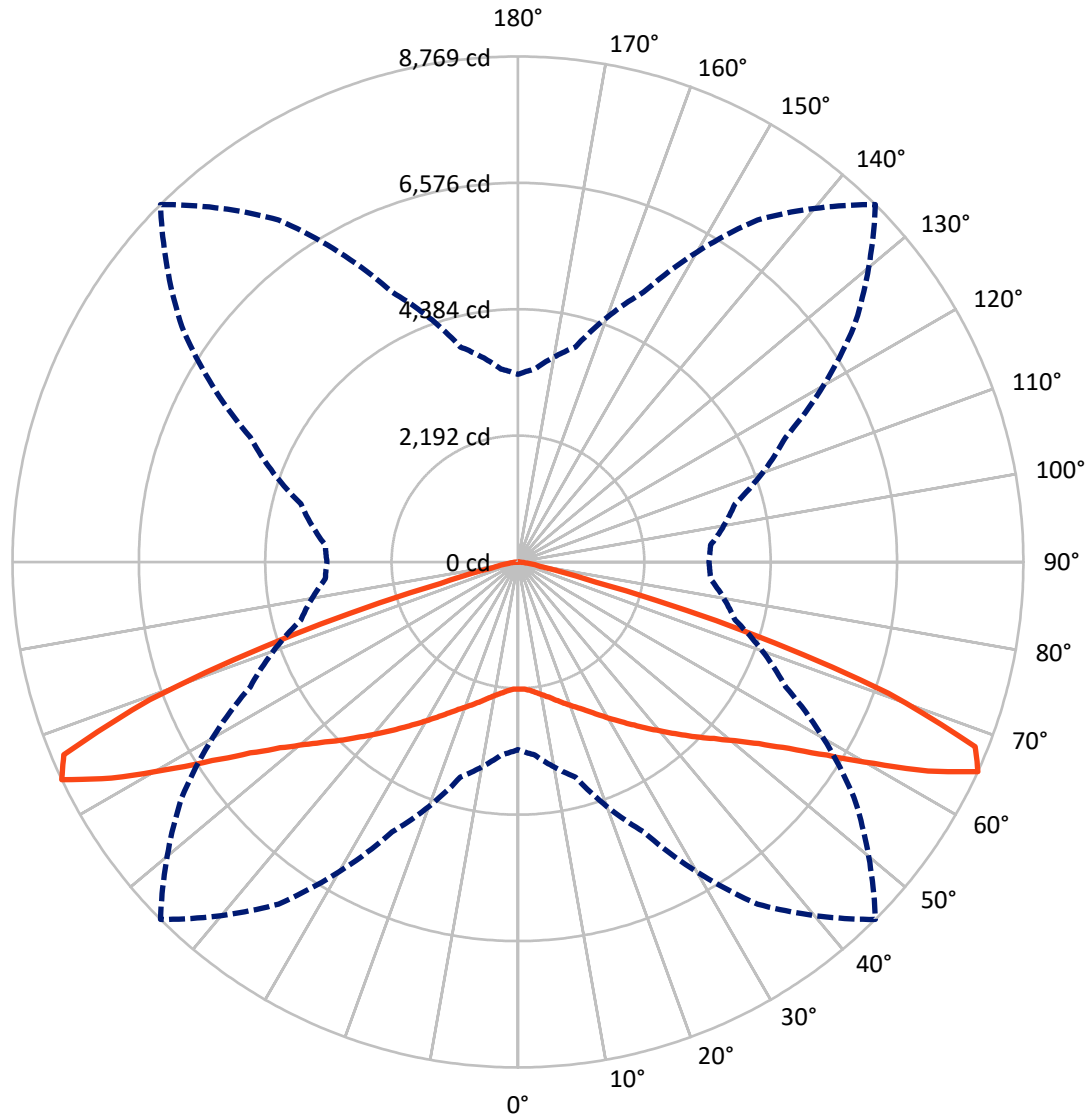
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P947477  
CATALOG NUMBER: GALN-SB2D-827-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947477

CATALOG NUMBER: GALN-SB2D-827-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9271.5	0.0	9271.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9271.5	0.0	9271.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18543.0	0.0	18543.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.8	1.2
10°-20°	710.7	3.8
20°-30°	1341.8	7.2
30°-40°	2197.2	11.8
40°-50°	3406.7	18.4
50°-60°	5032.5	27.1
60°-70°	4790.5	25.8
70°-80°	773.0	4.2
80°-90°	72.9	0.4
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°	18543.0	100.0
0°-180°	18543.0	100.0



REPORT NUMBER: P947477

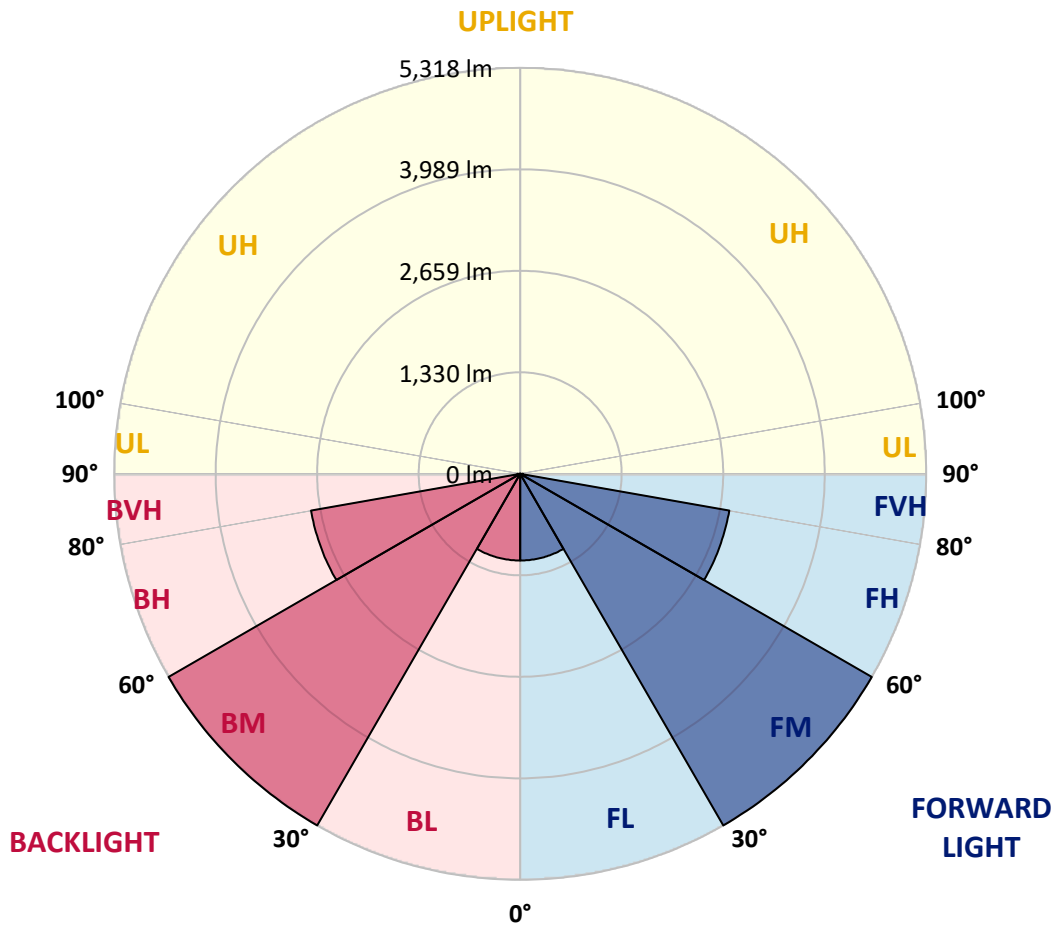
CATALOG NUMBER: GALN-SB2D-827-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.1	6.1			
FM (30°-60°)	5318.2	28.7			
FH (60°-80°)	2781.7	15.0			G2/5000
FVH (80°-90°)	36.4	0.2			G1/100
BL (0°-30°)	1135.1	6.1	B3/2500		
BM (30°-60°)	5318.2	28.7	B4/8500		
BH (60°-80°)	2781.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	36.4	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



REPORT NUMBER: P947477

CATALOG NUMBER: GALN-SB2D-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2206.8	2206.8	2206.8	2206.8	2206.8	2206.8	2206.8	2206.8	2206.8	2206.8
2.5°	2221.7	2214.2	2219.8	2215.2	2211.5	2207.7	2209.6	2216.1	2218.9	2219.8
5°	2251.5	2244.9	2247.7	2247.7	2241.2	2239.4	2240.3	2244.9	2250.5	2250.5
7.5°	2299.8	2293.3	2299.8	2296.1	2290.5	2288.7	2287.7	2291.5	2299.8	2299.8
10°	2358.5	2351.0	2354.7	2352.9	2346.4	2343.6	2342.6	2348.2	2355.7	2354.7
12.5°	2422.6	2414.3	2418.9	2413.3	2411.5	2408.7	2408.7	2407.8	2412.4	2408.7
15°	2494.3	2488.7	2490.6	2486.8	2489.6	2487.8	2480.3	2476.6	2478.5	2472.9
17.5°	2578.9	2565.9	2572.4	2570.6	2570.6	2574.3	2562.2	2557.5	2561.3	2555.7
20°	2676.6	2663.6	2666.4	2662.7	2658.0	2661.7	2646.9	2650.6	2653.4	2649.7
22.5°	2783.6	2766.9	2765.9	2767.8	2757.6	2758.5	2748.3	2757.6	2763.2	2752.9
25°	2893.4	2875.7	2887.8	2883.2	2870.1	2872.9	2865.5	2874.8	2879.4	2866.4
27.5°	3009.7	2997.6	3008.8	3011.6	2995.7	3006.9	2995.7	3004.1	3008.8	2989.2
30°	3145.5	3133.4	3143.7	3151.1	3132.5	3150.2	3140.9	3146.5	3147.4	3124.1
32.5°	3293.5	3274.9	3300.9	3304.6	3284.2	3305.6	3293.5	3300.9	3305.6	3273.9
35°	3473.9	3450.7	3480.5	3475.8	3458.1	3475.8	3464.6	3475.8	3487.0	3448.8
37.5°	3668.4	3644.2	3675.8	3667.5	3650.7	3662.8	3656.3	3663.7	3681.4	3640.5
40°	3882.4	3852.6	3895.4	3880.5	3864.7	3862.8	3866.6	3871.2	3894.5	3848.9
42.5°	4111.2	4079.6	4143.8	4120.5	4098.2	4083.3	4095.4	4104.7	4127.1	4075.9
45°	4372.7	4336.4	4420.1	4392.2	4356.9	4326.2	4345.7	4359.6	4392.2	4330.8
47.5°	4661.1	4620.1	4709.5	4701.1	4643.4	4576.4	4621.1	4661.1	4685.3	4610.8
50°	4943.0	4911.3	5028.6	5038.8	4968.1	4874.1	4936.5	4996.9	5003.5	4905.8
52.5°	5207.2	5175.6	5345.8	5410.0	5346.8	5235.1	5301.2	5362.6	5313.3	5186.7
55°	5418.4	5392.3	5609.1	5774.7	5796.1	5704.0	5743.1	5741.2	5579.3	5384.9
57.5°	5469.6	5465.8	5739.4	6090.1	6313.4	6324.6	6247.3	6050.1	5701.2	5439.8
60°	5237.0	5260.2	5636.1	6254.8	6850.2	7097.7	6763.7	6200.8	5562.6	5199.8
62.5°	4541.1	4602.5	5055.5	6053.8	7283.8	7987.1	7177.7	5971.9	4993.2	4519.7
65°	3254.4	3361.4	3861.9	5166.3	7244.7	8768.6	7118.1	5124.4	3899.1	3353.0
67.5°	1476.5	1585.3	2010.5	3537.2	6297.6	8556.5	6282.7	3574.4	2111.0	1590.9
70°	535.0	553.6	690.3	1416.0	4024.7	6817.6	4196.8	1426.2	734.1	589.8
72.5°	323.8	326.6	355.4	507.0	1398.3	4139.2	1457.9	523.8	362.8	321.9
75°	205.6	203.7	253.1	309.8	495.9	1396.5	520.1	309.8	252.1	229.8
77.5°	147.9	152.6	181.4	231.7	312.6	473.6	307.0	221.4	181.4	148.9
80°	110.7	113.5	132.1	180.5	219.6	294.9	195.4	163.7	136.8	93.0
82.5°	80.0	80.0	86.5	131.2	134.0	159.1	106.1	115.4	90.2	66.1
85°	47.4	46.5	54.0	78.1	69.8	58.6	48.4	70.7	56.8	40.9
87.5°	16.7	17.7	16.7	22.3	18.6	15.8	14.9	19.5	15.8	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2206.8
2219.8
2250.5
2297.0
2352.9
2410.6
2473.8
2560.3
2658.0
2763.2
2881.3
3004.1
3138.1
3295.3
3472.1
3665.6
3863.8
4102.9
4362.4
4636.0
4917.9
5190.5
5391.4
5423.0
5157.0
4491.8
3313.0
1567.6
582.4
327.5
231.7
151.6
95.8
66.1
40.0
13.0
0.0

OF REPORT)