

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: P939120

Luminaire Tested: **GALN-SB1C-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939120  
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-SB1C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

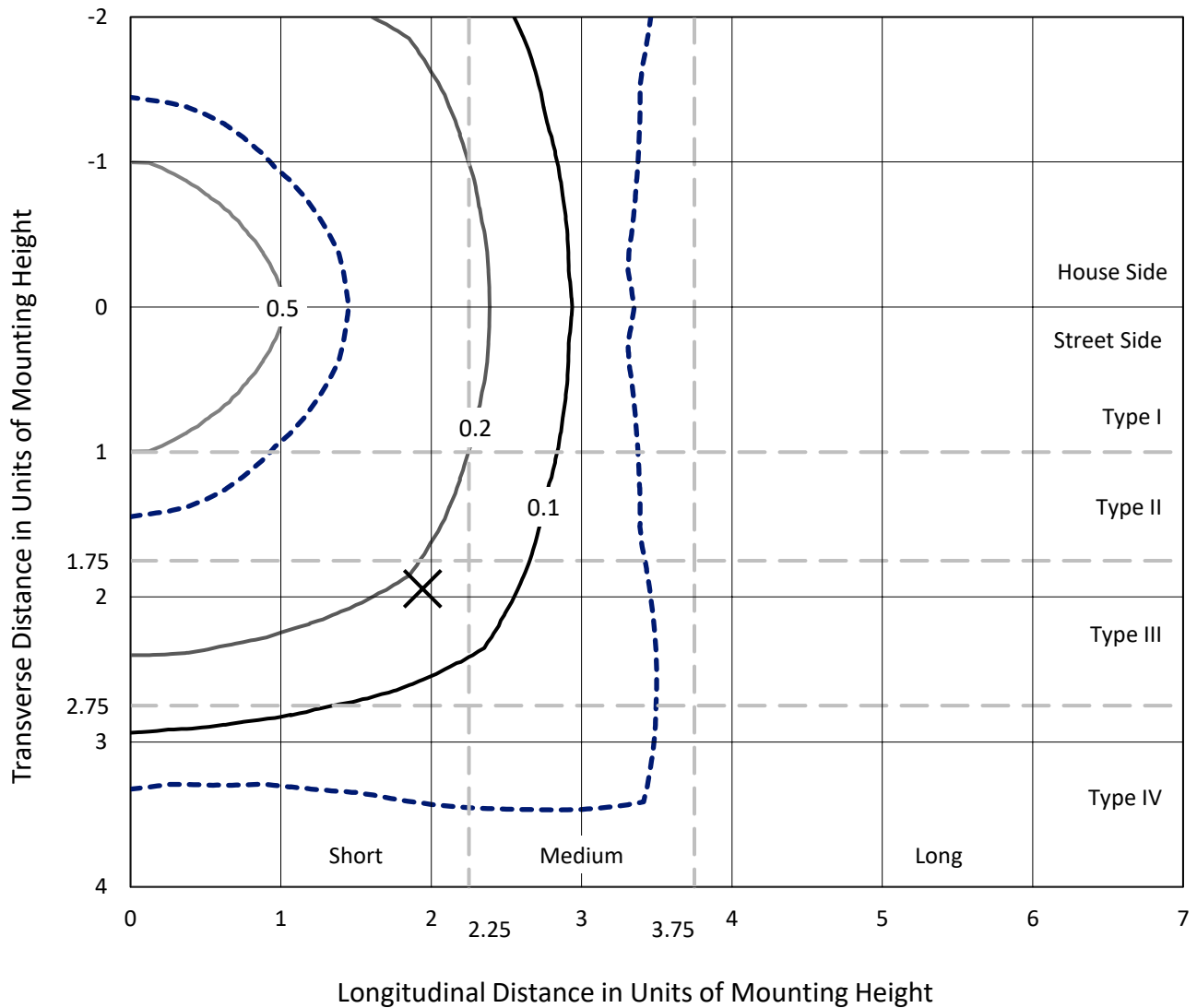
Lumens per Lamp: N/A  
Luminaire Lumens: 6589 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939120  
 CATALOG NUMBER: GALN-SB1C-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

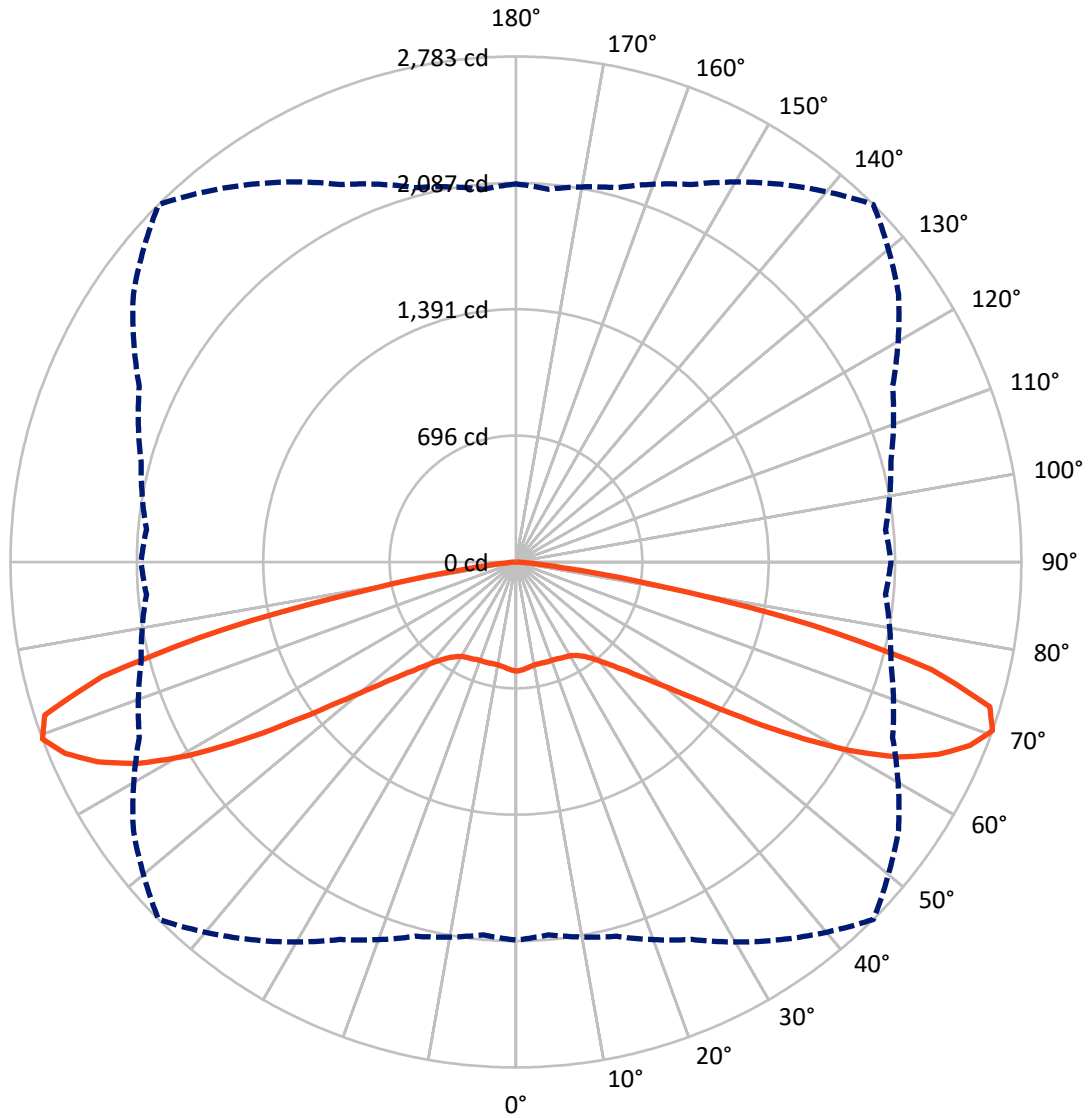
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type V - Short - N/A

REPORT NUMBER: P939120  
CATALOG NUMBER: GALN-SB1C-827-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P939120  
 CATALOG NUMBER: GALN-SB1C-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3294.5	0.0	3294.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3294.5	0.0	3294.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6589.0	0.0	6589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	0.8
10°-20°	164.2	2.5
20°-30°	273.2	4.1
30°-40°	413.2	6.3
40°-50°	686.6	10.4
50°-60°	1295.6	19.7
60°-70°	2187.6	33.2
70°-80°	1437.5	21.8
80°-90°	75.3	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°	6589.0	100.0
0°-180°	6589.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939120

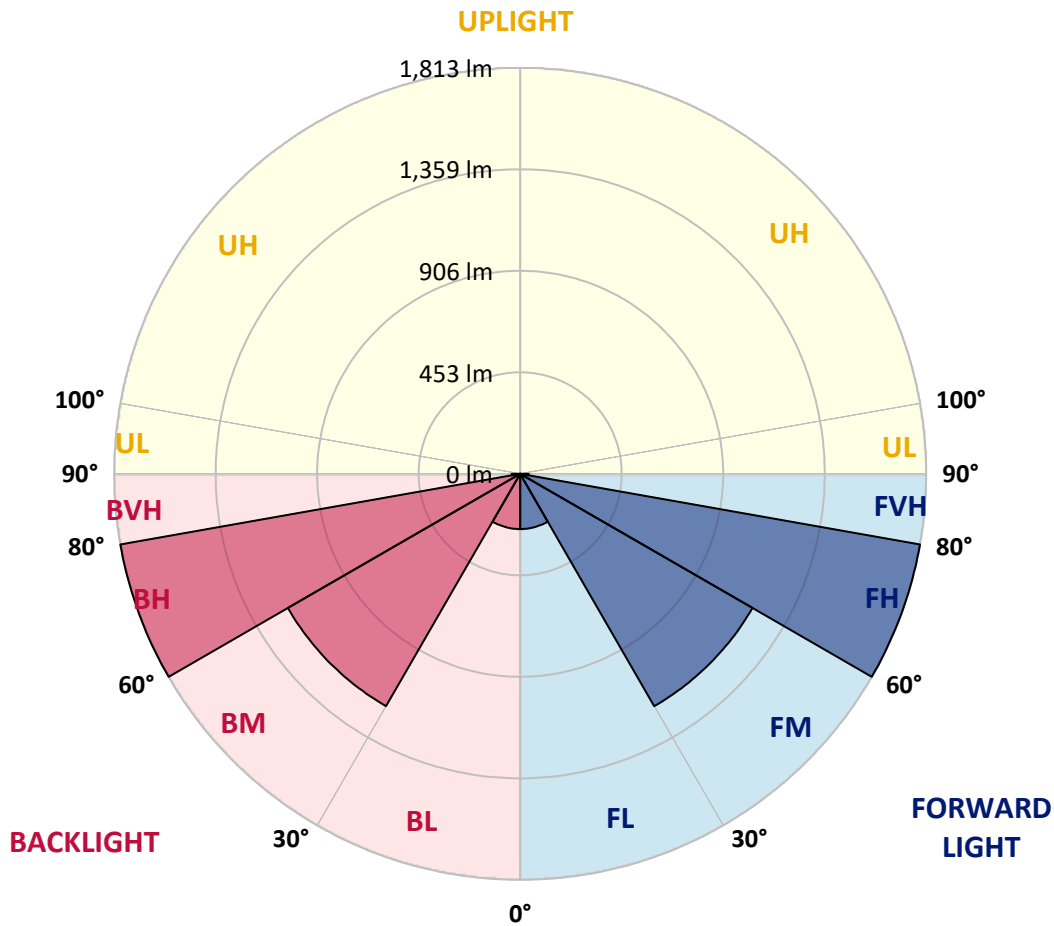
CATALOG NUMBER: GALN-SB1C-827-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.6	3.7			
FM (30°-60°)	1197.7	18.2			
FH (60°-80°)	1812.5	27.5			G2/5000
FVH (80°-90°)	37.7	0.6			G1/100
BL (0°-30°)	246.6	3.7	B1/500		
BM (30°-60°)	1197.7	18.2	B2/2500		
BH (60°-80°)	1812.5	27.5	B3/2500		G2/5000
BVH (80°-90°)	37.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



REPORT NUMBER: P939120  
 CATALOG NUMBER: GALN-SB1C-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	597.3	599.0	598.3	596.9	596.9	595.9	596.9	597.6	598.7	599.3
5°	589.4	590.8	590.4	589.4	589.7	588.7	589.4	590.4	591.1	591.5
7.5°	582.6	583.9	583.2	581.5	581.5	580.5	580.8	581.9	582.9	583.2
10°	580.8	582.2	580.2	577.4	576.4	575.0	575.4	576.4	578.4	579.5
12.5°	581.5	582.6	580.5	576.4	575.4	574.0	574.0	575.0	577.8	579.1
15°	583.6	584.6	581.5	577.1	576.0	575.0	574.7	576.0	579.1	581.5
17.5°	587.4	588.4	583.6	577.4	576.0	576.4	576.0	577.1	581.9	586.3
20°	590.8	591.5	585.0	577.4	576.0	576.4	576.0	578.1	584.3	590.4
22.5°	591.8	592.5	586.3	579.8	578.8	579.1	578.8	580.8	586.7	592.8
25°	592.1	593.2	588.4	583.2	585.0	585.6	585.0	585.3	589.7	595.2
27.5°	597.3	598.7	594.2	589.7	590.8	590.4	591.5	592.5	595.9	601.4
30°	607.9	608.9	605.2	600.7	600.0	597.6	600.7	604.1	607.9	612.7
32.5°	625.4	627.4	622.6	617.8	614.7	613.4	615.8	621.6	626.7	631.9
35°	654.5	655.8	651.4	642.5	637.0	637.0	639.1	646.6	654.8	661.3
37.5°	695.6	697.3	689.4	678.8	670.6	670.6	673.3	681.2	693.5	702.8
40°	745.6	748.0	738.0	727.1	719.2	717.8	721.3	730.2	741.8	753.5
42.5°	805.9	808.6	795.6	786.0	779.8	779.8	781.5	789.8	800.4	814.8
45°	882.9	887.7	869.9	860.3	854.5	855.9	856.9	864.1	873.7	890.1
47.5°	974.7	979.5	960.7	950.7	949.7	956.2	952.1	957.2	962.4	981.2
50°	1078.8	1087.0	1074.0	1073.3	1075.4	1087.4	1077.8	1080.5	1074.7	1086.7
52.5°	1206.2	1218.2	1215.8	1219.9	1242.9	1267.5	1245.6	1236.0	1214.1	1217.9
55°	1360.7	1378.8	1382.2	1406.9	1459.0	1509.3	1462.7	1424.0	1377.4	1368.9
57.5°	1536.4	1550.7	1567.2	1617.5	1714.8	1804.2	1714.8	1629.2	1555.9	1538.4
60°	1725.4	1743.2	1759.0	1833.3	1977.8	2103.5	1975.1	1839.1	1742.2	1718.6
62.5°	1928.5	1951.4	1962.4	2044.9	2213.4	2363.4	2215.8	2051.1	1943.6	1918.2
65°	2123.4	2142.2	2154.5	2242.5	2403.5	2553.9	2414.5	2252.1	2141.5	2108.3
67.5°	2214.1	2224.4	2254.5	2354.2	2524.1	2695.6	2552.8	2364.8	2241.2	2183.0
70°	2081.2	2060.3	2133.0	2292.5	2538.4	2782.6	2571.3	2287.8	2136.4	2041.9
72.5°	1608.3	1572.3	1698.4	1971.3	2374.1	2727.2	2390.5	1986.7	1776.8	1585.0
75°	875.0	834.3	1008.3	1353.5	1893.2	2363.8	1936.7	1392.2	1122.6	868.5
77.5°	246.9	231.5	371.9	654.8	1138.7	1659.6	1182.6	669.2	441.1	261.7
80°	75.7	73.3	99.3	197.3	483.6	794.9	464.7	199.7	126.4	79.8
82.5°	44.9	41.1	49.3	71.9	123.3	249.7	119.9	75.0	60.3	40.4
85°	25.7	24.0	29.1	34.9	41.4	53.1	34.6	35.6	32.2	21.6
87.5°	10.6	9.6	11.3	11.0	9.6	12.3	9.2	11.0	13.0	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
601.0
599.0
591.5
583.2
579.5
579.5
581.9
586.3
590.8
592.8
594.9
600.0
611.7
629.8
658.9
699.3
749.7
813.7
889.4
975.7
1079.5
1205.2
1355.5
1526.1
1698.0
1897.7
2091.9
2183.6
2064.5
1632.6
925.0
290.8
84.2
43.8
22.6
7.9
0.0

OF REPORT)