

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: P939630

Luminaire Tested: **GALN-SB2B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939630  
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-SB2B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

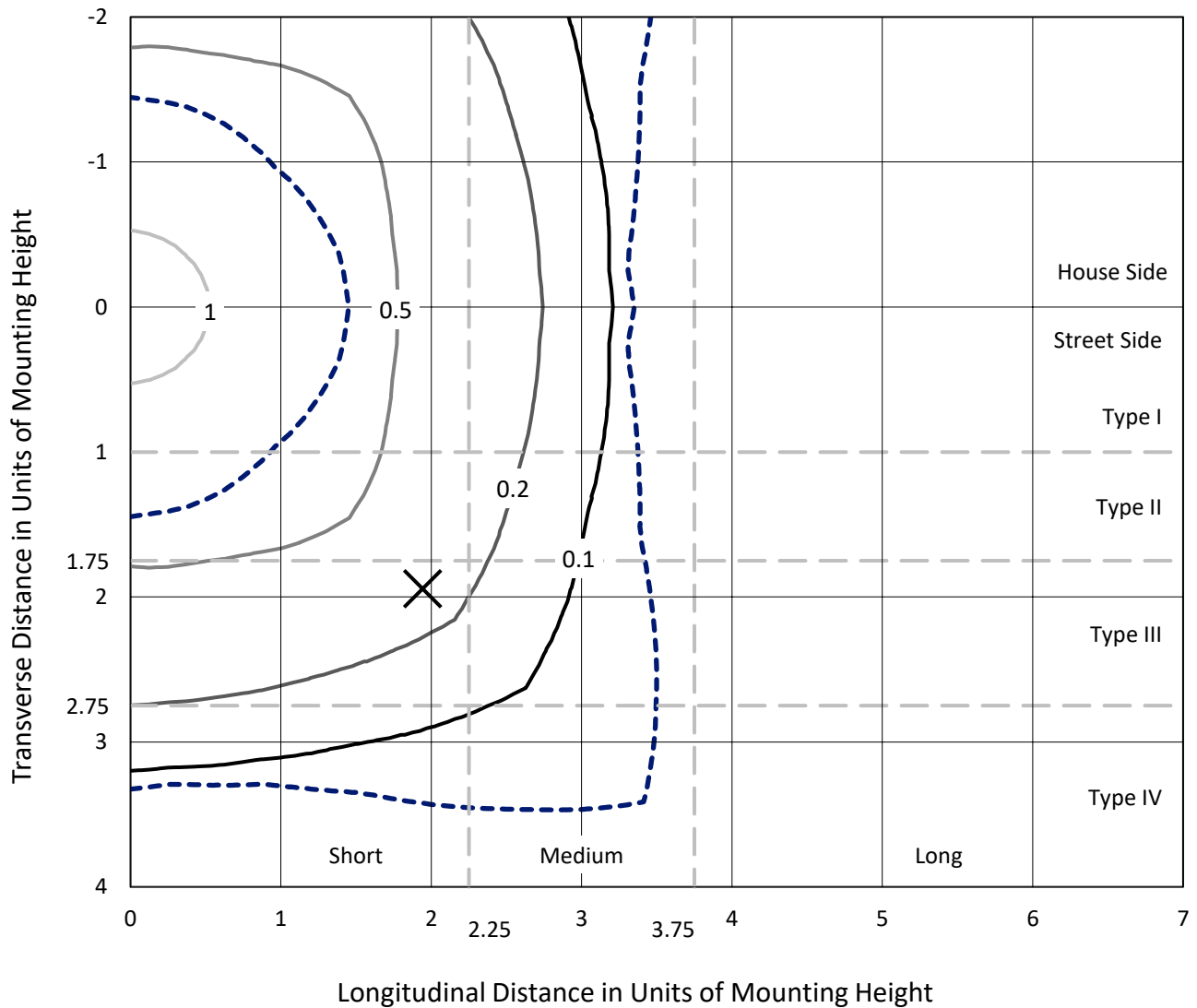
Lumens per Lamp: N/A  
Luminaire Lumens: 9905 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939630  
 CATALOG NUMBER: GALN-SB2B-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

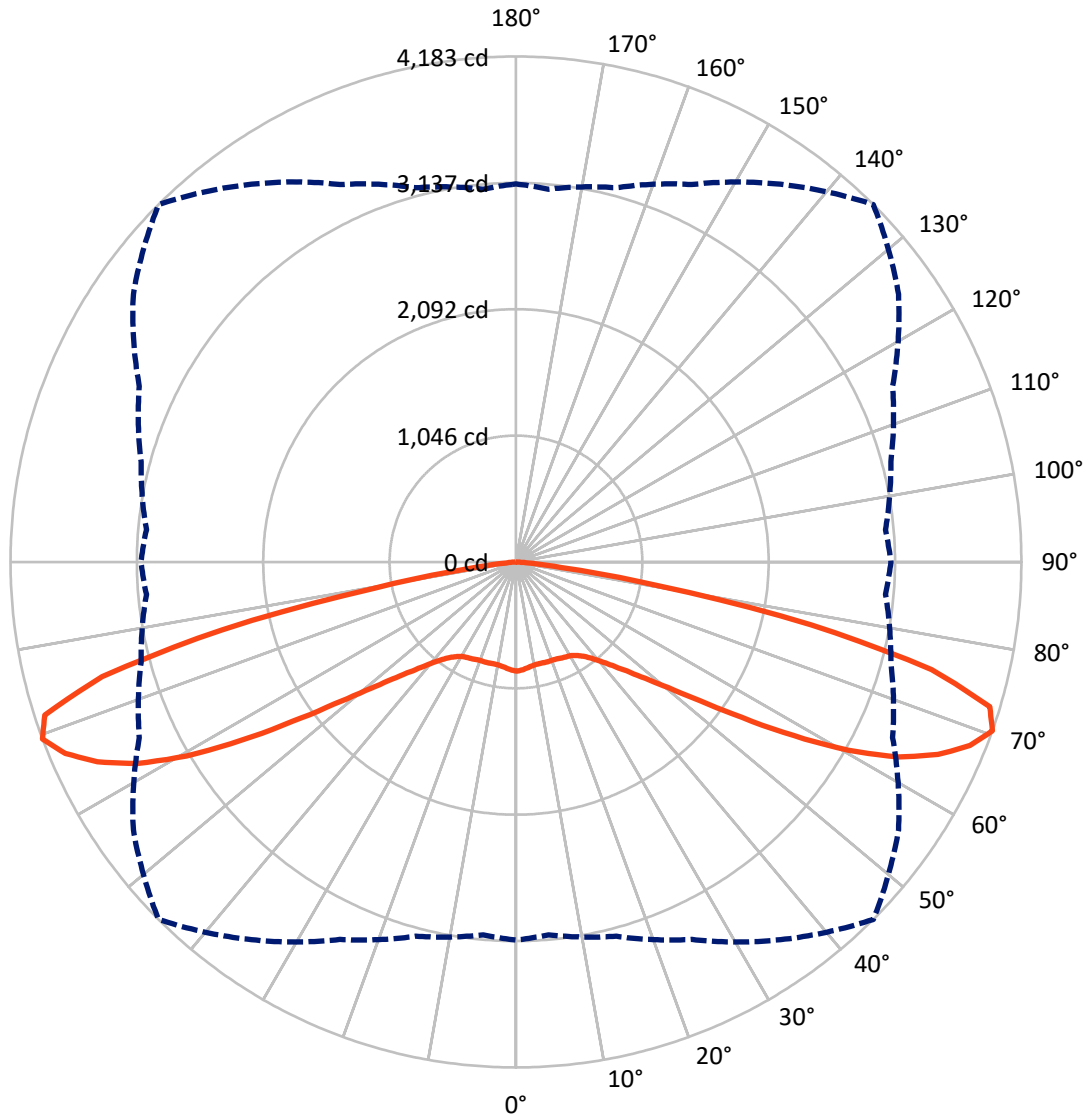
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P939630  
CATALOG NUMBER: GALN-SB2B-827-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P939630

CATALOG NUMBER: GALN-SB2B-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4952.5	0.0	4952.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4952.5	0.0	4952.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9905.0	0.0	9905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	0.8
10°-20°	246.8	2.5
20°-30°	410.7	4.1
30°-40°	621.1	6.3
40°-50°	1032.1	10.4
50°-60°	1947.6	19.7
60°-70°	3288.6	33.2
70°-80°	2160.9	21.8
80°-90°	113.2	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°	9905.0	100.0
0°-180°	9905.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939630

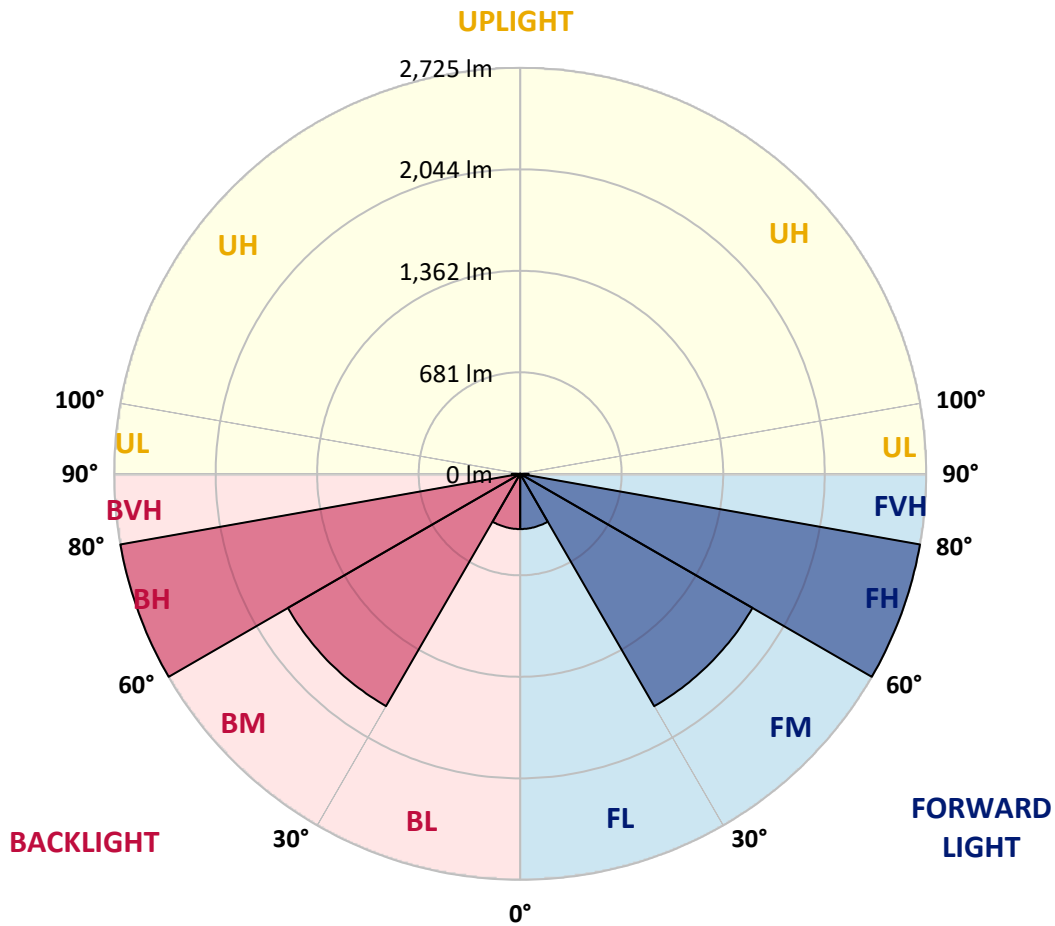
CATALOG NUMBER: GALN-SB2B-827-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.8	3.7			
FM (30°-60°)	1800.4	18.2			
FH (60°-80°)	2724.7	27.5			G2/5000
FVH (80°-90°)	56.6	0.6			G1/100
BL (0°-30°)	370.8	3.7	B1/500		
BM (30°-60°)	1800.4	18.2	B2/2500		
BH (60°-80°)	2724.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	56.6	0.6			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: P939630

CATALOG NUMBER: GALN-SB2B-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	897.9	900.4	899.4	897.4	897.4	895.8	897.4	898.4	899.9	901.0
5°	886.0	888.1	887.6	886.0	886.5	885.0	886.0	887.6	888.6	889.1
7.5°	875.7	877.8	876.8	874.2	874.2	872.6	873.2	874.7	876.2	876.8
10°	873.2	875.2	872.1	868.0	866.5	864.4	864.9	866.5	869.6	871.1
12.5°	874.2	875.7	872.6	866.5	864.9	862.9	862.9	864.4	868.5	870.6
15°	877.3	878.8	874.2	867.5	866.0	864.4	863.9	866.0	870.6	874.2
17.5°	882.9	884.5	877.3	868.0	866.0	866.5	866.0	867.5	874.7	881.4
20°	888.1	889.1	879.3	868.0	866.0	866.5	866.0	869.0	878.3	887.6
22.5°	889.6	890.7	881.4	871.6	870.1	870.6	870.1	873.2	881.9	891.2
25°	890.1	891.7	884.5	876.8	879.3	880.4	879.3	879.9	886.5	894.8
27.5°	897.9	899.9	893.2	886.5	888.1	887.6	889.1	890.7	895.8	904.1
30°	913.8	915.4	909.7	903.0	902.0	898.4	903.0	908.2	913.8	921.0
32.5°	940.1	943.2	936.0	928.8	924.1	922.1	925.7	934.4	942.1	949.9
35°	983.8	985.9	979.2	965.8	957.6	957.6	960.7	972.0	984.4	994.1
37.5°	1045.6	1048.2	1036.4	1020.4	1008.0	1008.0	1012.2	1024.0	1042.5	1056.4
40°	1120.8	1124.4	1109.5	1093.0	1081.2	1079.1	1084.2	1097.6	1115.1	1132.6
42.5°	1211.4	1215.5	1196.0	1181.5	1172.3	1172.3	1174.9	1187.2	1203.2	1224.8
45°	1327.2	1334.5	1307.7	1293.3	1284.5	1286.6	1288.1	1298.9	1313.3	1338.1
47.5°	1465.2	1472.4	1444.1	1429.2	1427.6	1437.4	1431.2	1439.0	1446.7	1475.0
50°	1621.7	1634.1	1614.5	1613.5	1616.6	1634.6	1620.2	1624.3	1615.6	1633.6
52.5°	1813.2	1831.3	1827.7	1833.8	1868.3	1905.4	1872.5	1858.0	1825.1	1830.8
55°	2045.4	2072.7	2077.9	2114.9	2193.2	2268.9	2198.9	2140.7	2070.7	2057.8
57.5°	2309.5	2331.2	2355.9	2431.6	2577.8	2712.2	2577.8	2449.1	2338.9	2312.6
60°	2593.7	2620.5	2644.2	2755.9	2973.2	3162.1	2969.1	2764.7	2619.0	2583.4
62.5°	2899.0	2933.5	2950.0	3074.1	3327.4	3552.9	3331.0	3083.3	2921.7	2883.6
65°	3192.0	3220.3	3238.8	3371.1	3613.1	3839.1	3629.6	3385.6	3219.3	3169.3
67.5°	3328.4	3343.9	3389.2	3539.0	3794.3	4052.3	3837.6	3554.9	3369.1	3281.6
70°	3128.7	3097.2	3206.4	3446.3	3816.0	4183.0	3865.4	3439.1	3211.5	3069.4
72.5°	2417.7	2363.6	2553.1	2963.4	3568.8	4099.6	3593.5	2986.6	2671.0	2382.7
75°	1315.4	1254.1	1515.7	2034.6	2846.0	3553.4	2911.4	2092.8	1687.6	1305.6
77.5°	371.2	348.0	559.1	984.4	1711.8	2494.9	1777.7	1006.0	663.1	393.3
80°	113.8	110.2	149.3	296.5	726.9	1194.9	698.6	300.1	190.0	120.0
82.5°	67.4	61.8	74.1	108.1	185.3	375.3	180.2	112.7	90.6	60.8
85°	38.6	36.0	43.8	52.5	62.3	79.8	52.0	53.5	48.4	32.4
87.5°	16.0	14.4	17.0	16.5	14.4	18.5	13.9	16.5	19.6	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
903.5
900.4
889.1
876.8
871.1
871.1
874.7
881.4
888.1
891.2
894.3
902.0
919.5
946.8
990.5
1051.3
1127.0
1223.2
1337.0
1466.8
1622.8
1811.7
2037.7
2294.1
2552.6
2852.7
3144.6
3282.6
3103.4
2454.2
1390.6
437.1
126.6
65.9
34.0
11.8
0.0

OF REPORT)