

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: P938780

Luminaire Tested: **GALN-SB1A-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938780  
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-SB1A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3947 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

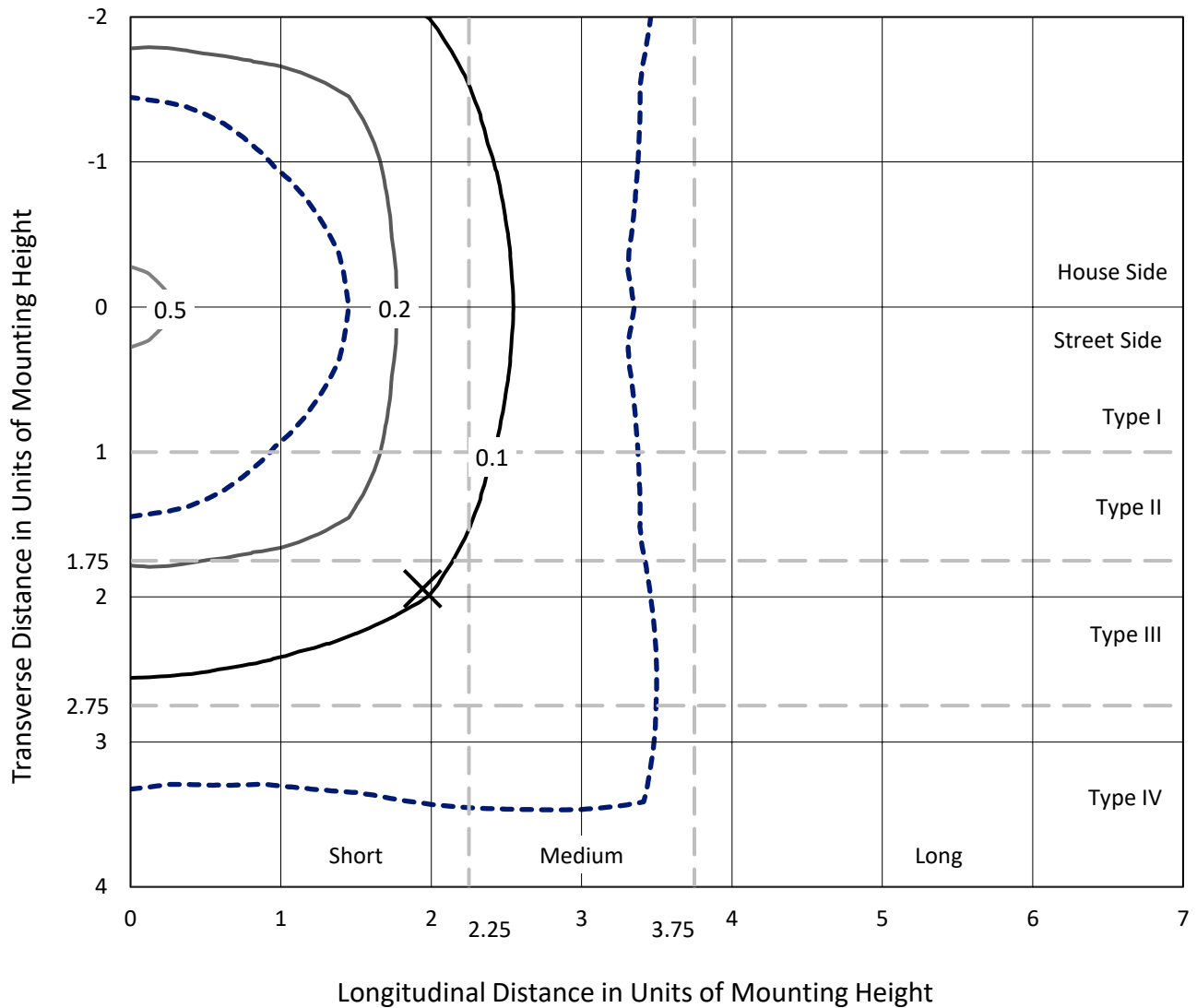
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P938780  
 CATALOG NUMBER: GALN-SB1A-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

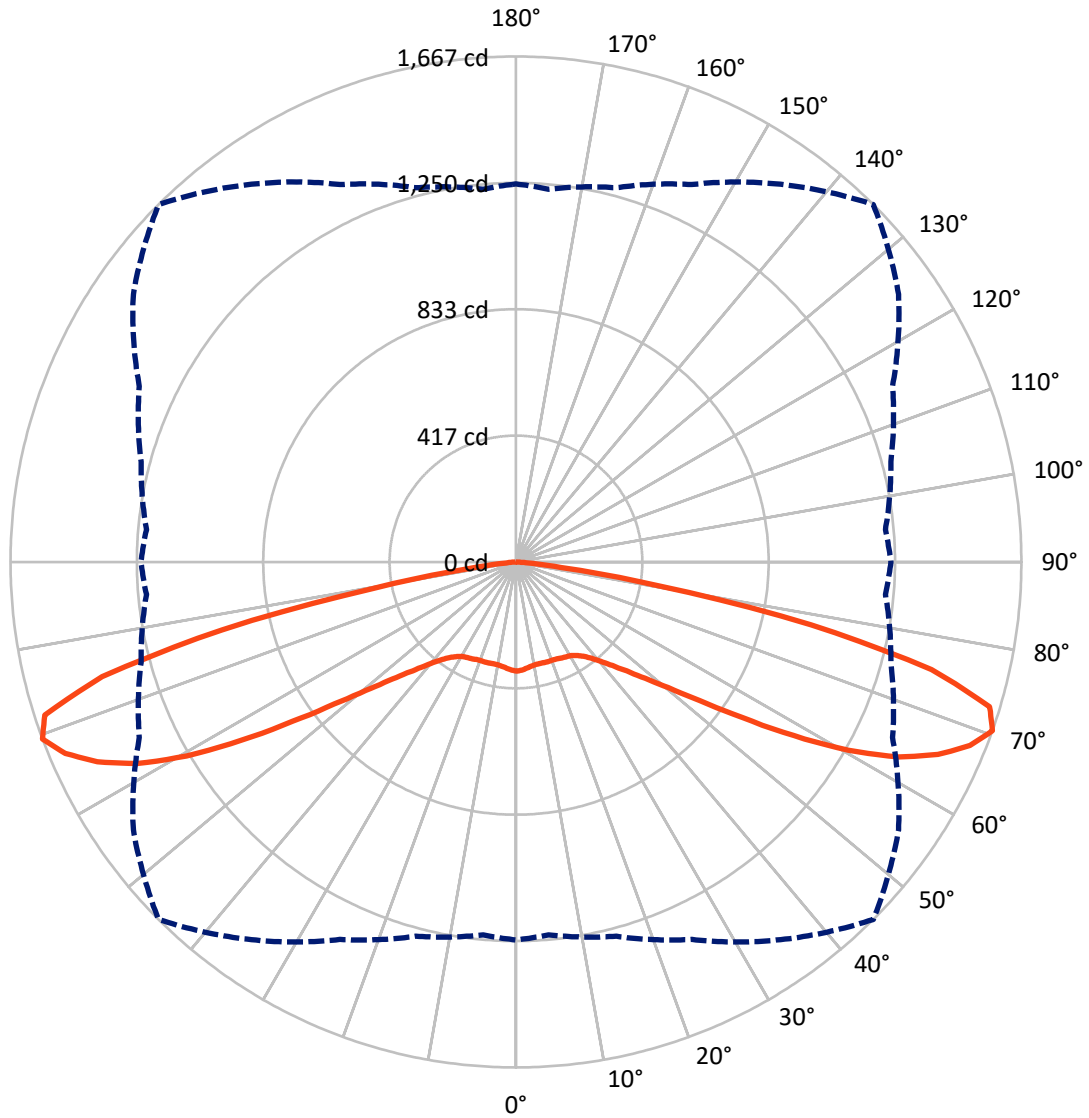
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P938780  
CATALOG NUMBER: GALN-SB1A-827-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P938780

CATALOG NUMBER: GALN-SB1A-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1973.5	0.0	1973.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1973.5	0.0	1973.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3947.0	0.0	3947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.5	0.8
10°-20°	98.3	2.5
20°-30°	163.7	4.1
30°-40°	247.5	6.3
40°-50°	411.3	10.4
50°-60°	776.1	19.7
60°-70°	1310.4	33.2
70°-80°	861.1	21.8
80°-90°	45.1	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°	3947.0	100.0
0°-180°	3947.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938780

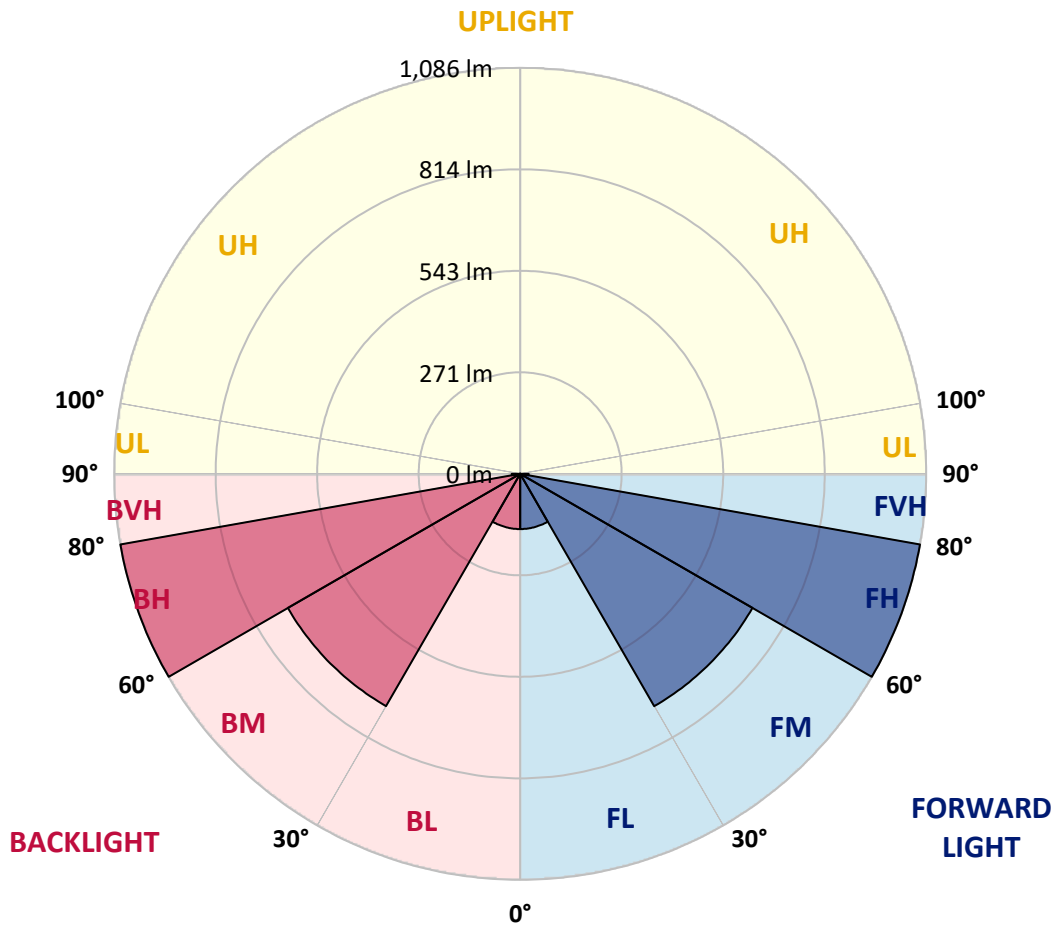
CATALOG NUMBER: GALN-SB1A-827-U-5WQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.7	3.7			
FM	(30°-60°)	717.4	18.2			
FH	(60°-80°)	1085.8	27.5			G1/1800
FVH	(80°-90°)	22.6	0.6			G1/100
BL	(0°-30°)	147.7	3.7	B1/500		
BM	(30°-60°)	717.4	18.2	B1/1000		
BH	(60°-80°)	1085.8	27.5	B3/2500		G1/1800
BVH	(80°-90°)	22.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short



REPORT NUMBER: P938780

CATALOG NUMBER: GALN-SB1A-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
2.5°	357.8	358.8	358.4	357.6	357.6	357.0	357.6	358.0	358.6	359.0
5°	353.1	353.9	353.7	353.1	353.3	352.7	353.1	353.7	354.1	354.3
7.5°	349.0	349.8	349.4	348.4	348.4	347.7	347.9	348.6	349.2	349.4
10°	347.9	348.8	347.5	345.9	345.3	344.5	344.7	345.3	346.5	347.1
12.5°	348.4	349.0	347.7	345.3	344.7	343.8	343.8	344.5	346.1	346.9
15°	349.6	350.2	348.4	345.7	345.1	344.5	344.2	345.1	346.9	348.4
17.5°	351.8	352.5	349.6	345.9	345.1	345.3	345.1	345.7	348.6	351.2
20°	353.9	354.3	350.4	345.9	345.1	345.3	345.1	346.3	350.0	353.7
22.5°	354.5	354.9	351.2	347.3	346.7	346.9	346.7	347.9	351.4	355.1
25°	354.7	355.3	352.5	349.4	350.4	350.8	350.4	350.6	353.3	356.6
27.5°	357.8	358.6	355.9	353.3	353.9	353.7	354.3	354.9	357.0	360.3
30°	364.1	364.8	362.5	359.8	359.4	358.0	359.8	361.9	364.1	367.0
32.5°	374.6	375.8	373.0	370.1	368.3	367.4	368.9	372.4	375.4	378.5
35°	392.0	392.9	390.2	384.9	381.6	381.6	382.8	387.3	392.3	396.2
37.5°	416.7	417.7	413.0	406.6	401.7	401.7	403.3	408.1	415.4	421.0
40°	446.6	448.1	442.1	435.5	430.8	430.0	432.1	437.4	444.4	451.3
42.5°	482.7	484.4	476.6	470.8	467.1	467.1	468.2	473.1	479.4	488.1
45°	528.9	531.8	521.1	515.3	511.9	512.7	513.3	517.6	523.3	533.2
47.5°	583.9	586.7	575.5	569.5	568.9	572.8	570.3	573.4	576.5	587.8
50°	646.2	651.2	643.4	643.0	644.2	651.4	645.6	647.3	643.8	651.0
52.5°	722.6	729.7	728.3	730.8	744.5	759.3	746.1	740.4	727.3	729.5
55°	815.1	826.0	828.0	842.8	874.0	904.1	876.2	853.0	825.1	820.0
57.5°	920.3	928.9	938.8	968.9	1027.2	1080.8	1027.2	975.9	932.0	921.6
60°	1033.6	1044.2	1053.7	1098.2	1184.8	1260.1	1183.1	1101.7	1043.6	1029.5
62.5°	1155.2	1169.0	1175.5	1225.0	1325.9	1415.8	1327.3	1228.7	1164.3	1149.1
65°	1272.0	1283.2	1290.6	1343.4	1439.8	1529.8	1446.3	1349.1	1282.8	1262.9
67.5°	1326.3	1332.5	1350.5	1410.2	1512.0	1614.8	1529.2	1416.6	1342.5	1307.7
70°	1246.7	1234.2	1277.7	1373.3	1520.6	1666.9	1540.3	1370.4	1279.8	1223.1
72.5°	963.4	941.9	1017.4	1180.9	1422.1	1633.6	1432.0	1190.1	1064.3	949.5
75°	524.2	499.8	604.0	810.8	1134.1	1416.0	1160.1	834.0	672.5	520.3
77.5°	147.9	138.7	222.8	392.3	682.1	994.2	708.4	400.9	264.2	156.7
80°	45.3	43.9	59.5	118.2	289.7	476.2	278.4	119.6	75.7	47.8
82.5°	26.9	24.6	29.5	43.1	73.9	149.6	71.8	44.9	36.1	24.2
85°	15.4	14.4	17.4	20.9	24.8	31.8	20.7	21.3	19.3	12.9
87.5°	6.4	5.7	6.8	6.6	5.7	7.4	5.5	6.6	7.8	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
360.0
358.8
354.3
349.4
347.1
347.1
348.6
351.2
353.9
355.1
356.4
359.4
366.4
377.3
394.7
418.9
449.1
487.4
532.8
584.5
646.6
721.9
812.0
914.2
1017.2
1136.8
1253.1
1308.1
1236.7
978.0
554.1
174.2
50.5
26.3
13.5
4.7
0.0

OF REPORT)