

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: P946406

Luminaire Tested: **GALN-SB2A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946406
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-SB2A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8174 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

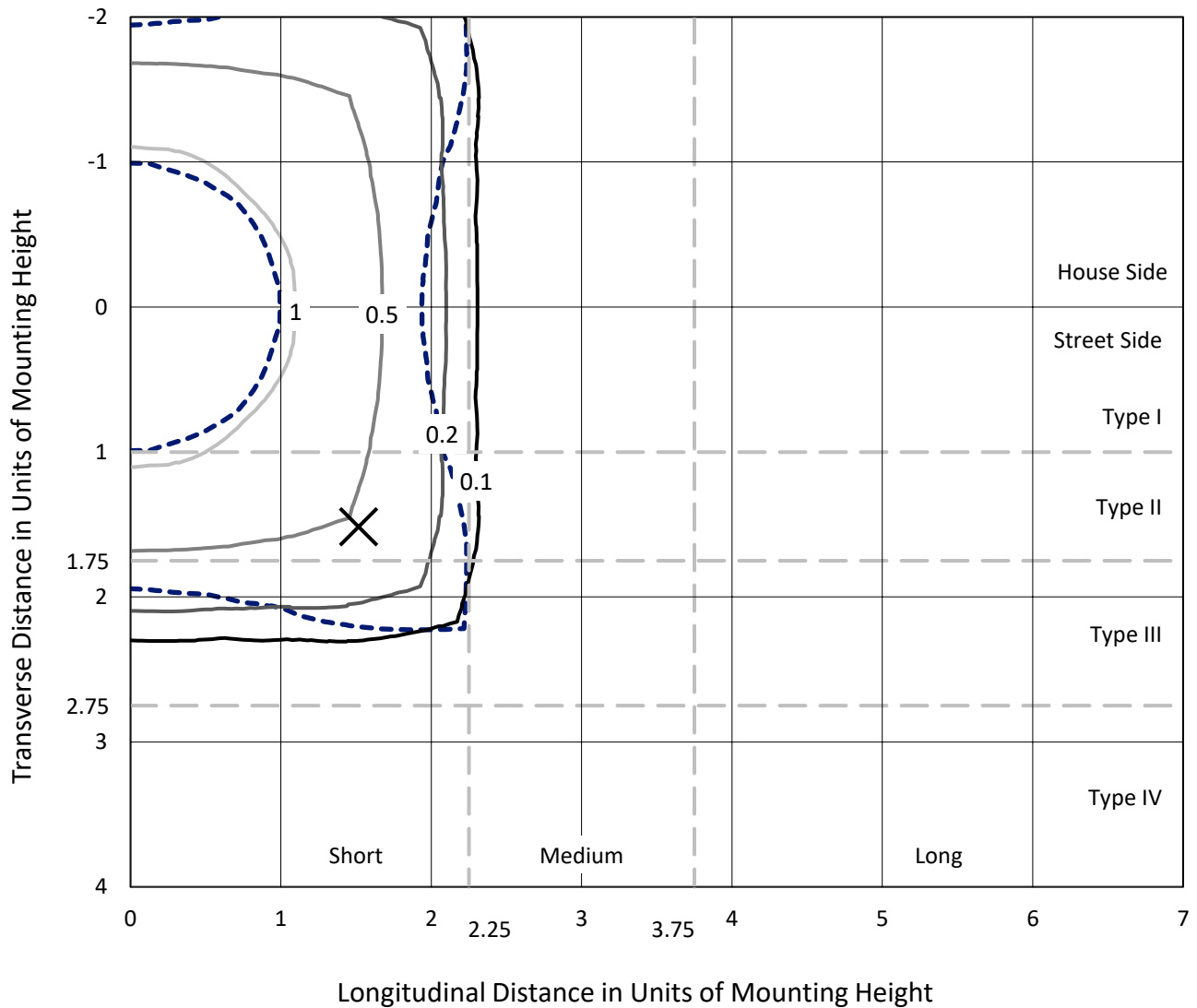
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946406
 CATALOG NUMBER: GALN-SB2A-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

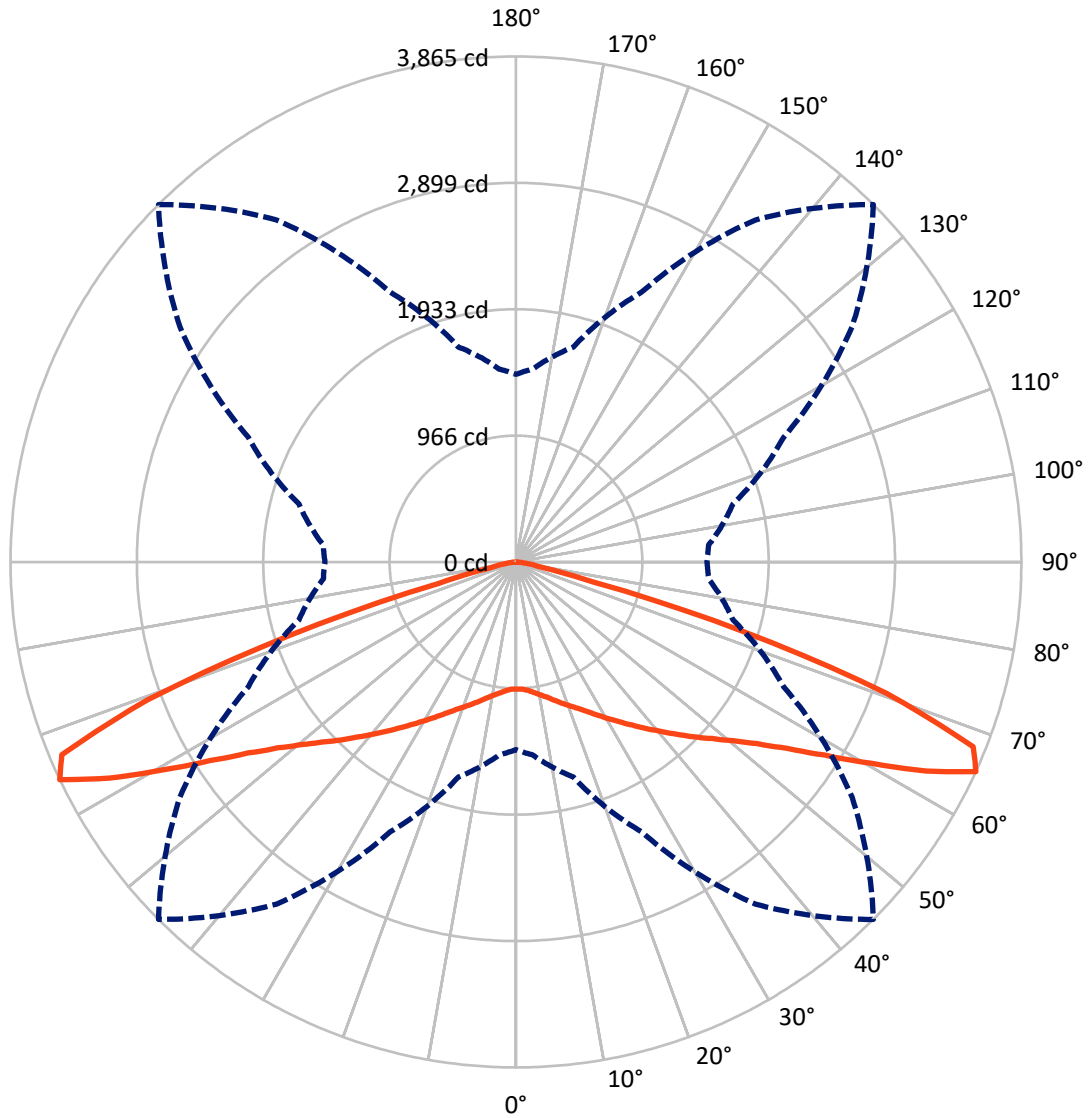
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

REPORT NUMBER: P946406
CATALOG NUMBER: GALN-SB2A-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946406
 CATALOG NUMBER: GALN-SB2A-827-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4087.0	0.0	4087.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4087.0	0.0	4087.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8174.0	0.0	8174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.2
10°-20°	313.3	3.8
20°-30°	591.5	7.2
30°-40°	968.5	11.8
40°-50°	1501.7	18.4
50°-60°	2218.4	27.1
60°-70°	2111.7	25.8
70°-80°	340.7	4.2
80°-90°	32.1	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°	8174.0	100.0
0°-180°	8174.0	100.0

Coefficient of Utilization



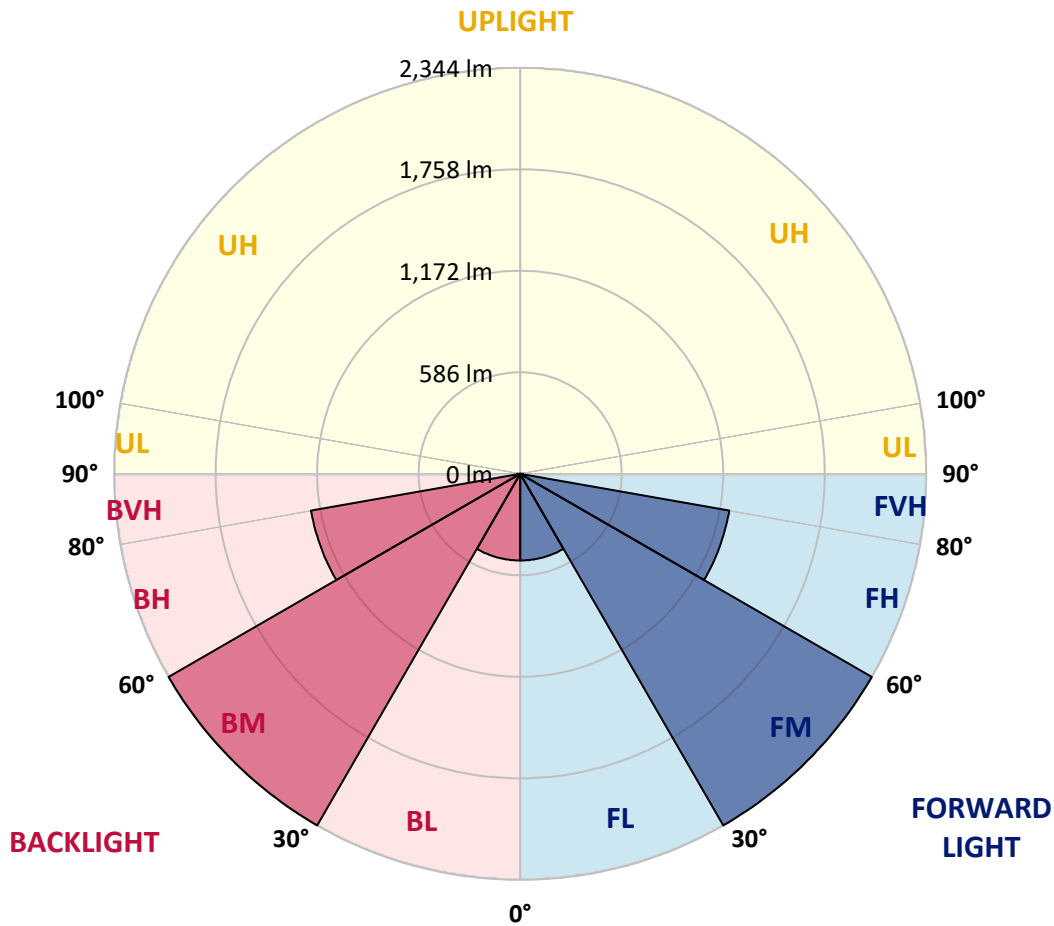
REPORT NUMBER: P946406
 CATALOG NUMBER: GALN-SB2A-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.4	6.1			
FM (30°-60°)	2344.3	28.7			
FH (60°-80°)	1226.2	15.0			G1/1800
FVH (80°-90°)	16.1	0.2			G1/100
BL (0°-30°)	500.4	6.1	B2/1000		
BM (30°-60°)	2344.3	28.7	B2/2500		
BH (60°-80°)	1226.2	15.0	B3/2500		G1/1800
BVH (80°-90°)	16.1	0.2			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: P946406

CATALOG NUMBER: GALN-SB2A-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	972.8	972.8	972.8	972.8	972.8	972.8	972.8	972.8	972.8	972.8
2.5°	979.3	976.1	978.5	976.5	974.8	973.2	974.0	976.9	978.1	978.5
5°	992.5	989.6	990.8	990.8	988.0	987.1	987.6	989.6	992.1	992.1
7.5°	1013.8	1010.9	1013.8	1012.2	1009.7	1008.9	1008.5	1010.1	1013.8	1013.8
10°	1039.6	1036.4	1038.0	1037.2	1034.3	1033.1	1032.7	1035.1	1038.4	1038.0
12.5°	1067.9	1064.2	1066.3	1063.8	1063.0	1061.8	1061.8	1061.4	1063.4	1061.8
15°	1099.5	1097.1	1097.9	1096.2	1097.5	1096.6	1093.4	1091.7	1092.5	1090.1
17.5°	1136.8	1131.1	1134.0	1133.1	1133.1	1134.8	1129.5	1127.4	1129.0	1126.6
20°	1179.9	1174.2	1175.4	1173.7	1171.7	1173.3	1166.8	1168.4	1169.6	1168.0
22.5°	1227.1	1219.7	1219.3	1220.1	1215.6	1216.0	1211.5	1215.6	1218.0	1213.5
25°	1275.5	1267.7	1273.0	1270.9	1265.2	1266.4	1263.1	1267.2	1269.3	1263.6
27.5°	1326.7	1321.4	1326.3	1327.5	1320.6	1325.5	1320.6	1324.3	1326.3	1317.7
30°	1386.6	1381.3	1385.8	1389.1	1380.9	1388.6	1384.5	1387.0	1387.4	1377.2
32.5°	1451.8	1443.6	1455.1	1456.7	1447.7	1457.1	1451.8	1455.1	1457.1	1443.2
35°	1531.4	1521.1	1534.2	1532.2	1524.4	1532.2	1527.3	1532.2	1537.1	1520.3
37.5°	1617.1	1606.4	1620.4	1616.7	1609.3	1614.6	1611.7	1615.0	1622.8	1604.8
40°	1711.4	1698.3	1717.1	1710.6	1703.6	1702.8	1704.4	1706.5	1716.7	1696.6
42.5°	1812.3	1798.3	1826.6	1816.4	1806.5	1800.0	1805.3	1809.4	1819.3	1796.7
45°	1927.5	1911.5	1948.4	1936.1	1920.6	1907.0	1915.6	1921.8	1936.1	1909.1
47.5°	2054.7	2036.6	2076.0	2072.3	2046.9	2017.3	2037.0	2054.7	2065.3	2032.5
50°	2178.9	2165.0	2216.7	2221.2	2190.0	2148.6	2176.1	2202.7	2205.6	2162.5
52.5°	2295.4	2281.5	2356.5	2384.8	2356.9	2307.7	2336.8	2363.9	2342.2	2286.4
55°	2388.5	2377.0	2472.6	2545.6	2555.0	2514.4	2531.6	2530.8	2459.4	2373.7
57.5°	2411.1	2409.4	2530.0	2684.6	2783.0	2787.9	2753.9	2667.0	2513.2	2397.9
60°	2308.5	2318.8	2484.5	2757.2	3019.7	3128.8	2981.5	2733.4	2452.1	2292.1
62.5°	2001.8	2028.8	2228.6	2668.6	3210.8	3520.8	3164.0	2632.5	2201.1	1992.3
65°	1434.6	1481.7	1702.4	2277.4	3193.5	3865.3	3137.8	2258.9	1718.8	1478.0
67.5°	650.8	698.8	886.3	1559.2	2776.1	3771.8	2769.5	1575.7	930.5	701.3
70°	235.8	244.0	304.3	624.2	1774.1	3005.3	1850.0	628.7	323.6	260.0
72.5°	142.7	143.9	156.7	223.5	616.4	1824.6	642.6	230.9	159.9	141.9
75°	90.6	89.8	111.6	136.6	218.6	615.6	229.3	136.6	111.1	101.3
77.5°	65.2	67.3	80.0	102.1	137.8	208.7	135.3	97.6	80.0	65.6
80°	48.8	50.0	58.2	79.6	96.8	130.0	86.1	72.2	60.3	41.0
82.5°	35.3	35.3	38.1	57.8	59.1	70.1	46.8	50.9	39.8	29.1
85°	20.9	20.5	23.8	34.4	30.8	25.8	21.3	31.2	25.0	18.0
87.5°	7.4	7.8	7.4	9.8	8.2	7.0	6.6	8.6	7.0	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
972.8
978.5
992.1
1012.6
1037.2
1062.6
1090.5
1128.6
1171.7
1218.0
1270.1
1324.3
1383.3
1452.6
1530.5
1615.8
1703.2
1808.6
1923.0
2043.6
2167.9
2288.0
2376.6
2390.5
2273.3
1980.0
1460.4
691.0
256.7
144.4
102.1
66.8
42.2
29.1
17.6
5.7
0.0

OF REPORT)