

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: P946052

Luminaire Tested: **GALN-SB1D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9115 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

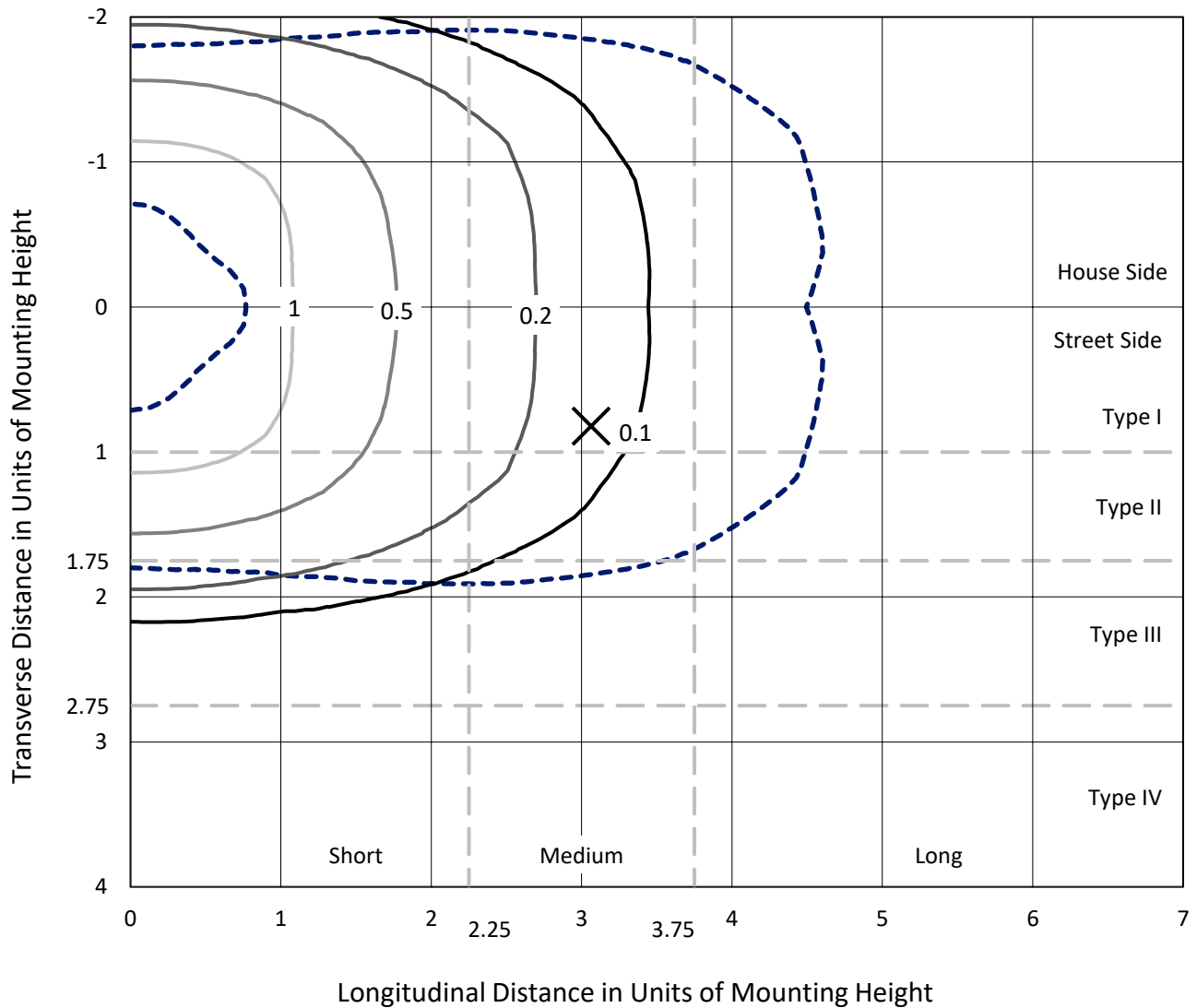
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946052
 CATALOG NUMBER: GALN-SB1D-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

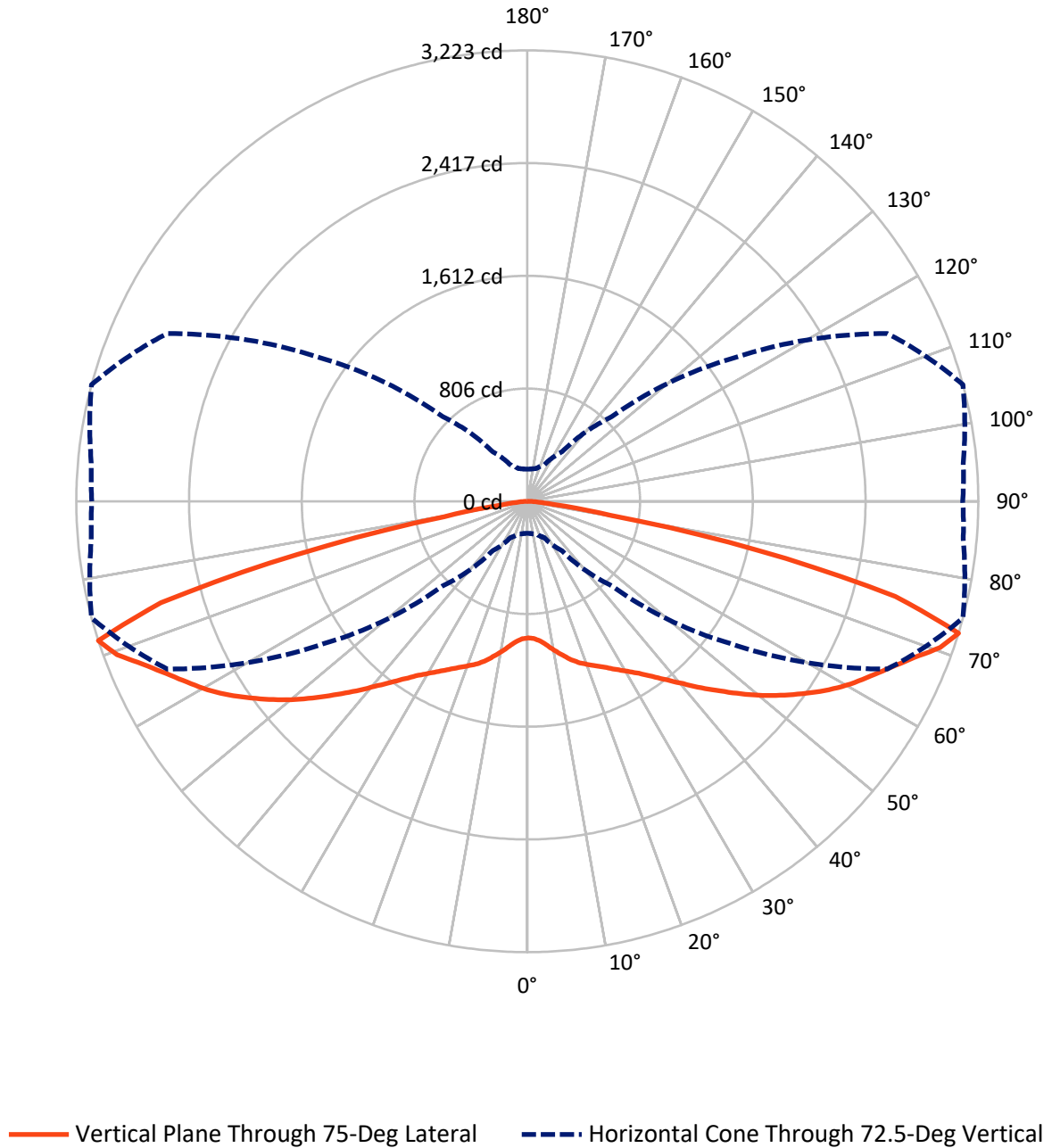
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P946052
CATALOG NUMBER: GALN-SB1D-827-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4557.5	0.0	4557.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4557.5	0.0	4557.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9115.0	0.0	9115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.0
10°-20°	315.5	3.5
20°-30°	609.6	6.7
30°-40°	1029.3	11.3
40°-50°	1632.3	17.9
50°-60°	2185.5	24.0
60°-70°	2079.9	22.8
70°-80°	1085.3	11.9
80°-90°	82.2	0.9
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°	9115.0	100.0
0°-180°	9115.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946052

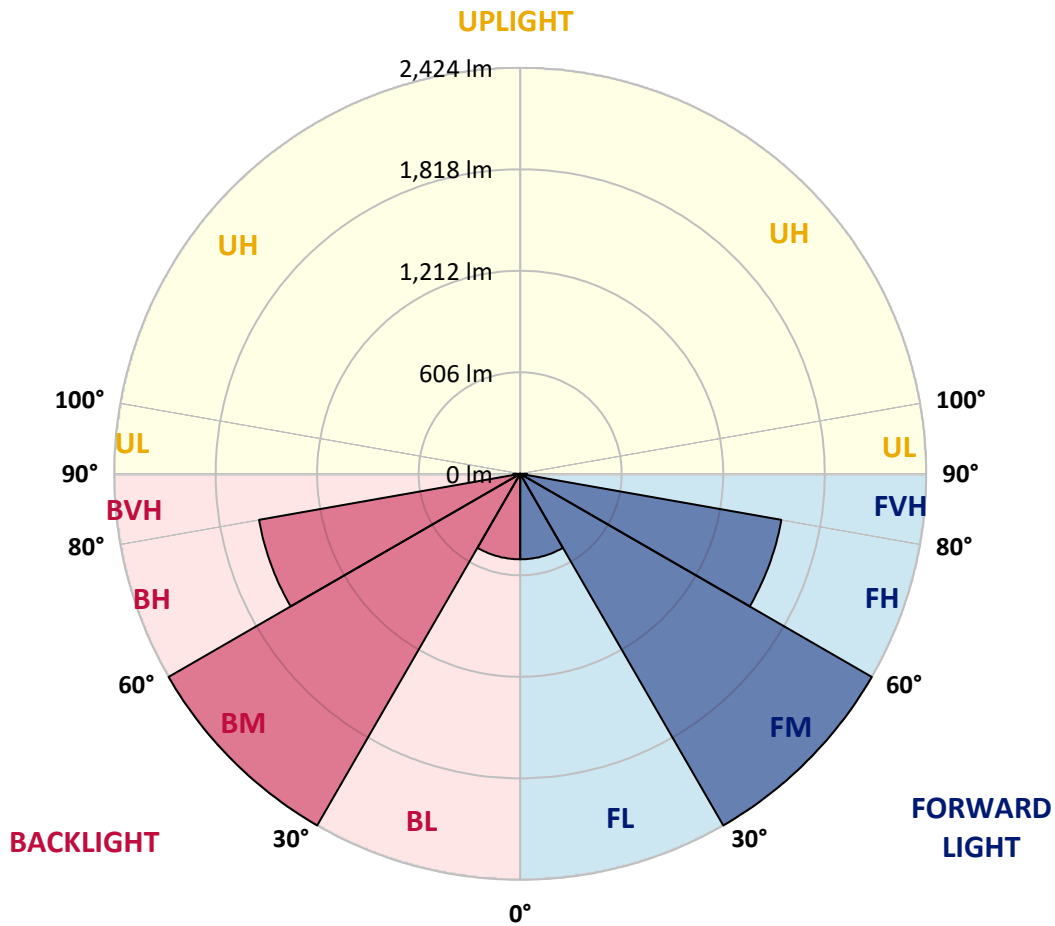
CATALOG NUMBER: GALN-SB1D-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.3	5.6			
FM (30°-60°)	2423.5	26.6			
FH (60°-80°)	1582.6	17.4			G1/1800
FVH (80°-90°)	41.1	0.5			G1/100
BL (0°-30°)	510.3	5.6	B2/1000		
BM (30°-60°)	2423.5	26.6	B2/2500		
BH (60°-80°)	1582.6	17.4	B3/2500		G3/2500
BVH (80°-90°)	41.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4	976.4
2.5°	976.4	975.4	976.4	977.3	976.8	976.8	979.2	980.6	983.4	982.9
5°	969.9	969.4	973.1	977.3	980.6	986.2	993.1	998.3	1004.8	1006.2
7.5°	966.6	965.2	971.7	979.2	989.4	1003.4	1016.9	1030.8	1042.0	1045.7
10°	968.9	969.4	978.2	992.2	1008.5	1028.0	1047.1	1070.9	1086.7	1090.4
12.5°	979.6	978.7	993.6	1015.9	1038.3	1062.9	1085.3	1111.3	1128.6	1137.4
15°	999.2	997.3	1018.3	1051.3	1083.9	1112.7	1130.9	1155.6	1175.6	1186.7
17.5°	1022.5	1023.4	1050.8	1093.7	1136.5	1169.0	1186.3	1198.8	1214.2	1224.0
20°	1063.4	1065.3	1096.0	1146.7	1195.6	1232.8	1246.8	1242.1	1246.3	1253.7
22.5°	1118.3	1119.3	1153.7	1208.6	1259.8	1300.8	1310.1	1291.0	1279.3	1284.5
25°	1182.1	1188.1	1222.6	1278.9	1331.5	1370.6	1374.8	1345.9	1317.0	1318.4
27.5°	1259.8	1265.4	1300.3	1356.1	1409.7	1443.6	1443.2	1404.5	1362.2	1351.5
30°	1344.0	1350.1	1385.9	1443.6	1493.4	1523.2	1516.7	1470.6	1410.1	1390.1
32.5°	1444.1	1447.8	1484.1	1541.8	1587.9	1611.6	1598.1	1541.4	1466.0	1443.2
35°	1565.1	1570.7	1597.7	1652.1	1692.6	1712.2	1689.4	1622.3	1537.6	1512.0
37.5°	1703.3	1699.6	1730.3	1778.7	1812.2	1824.3	1793.1	1713.6	1619.5	1589.3
40°	1847.6	1845.7	1879.2	1925.8	1943.9	1951.4	1905.3	1818.3	1714.0	1681.4
42.5°	1978.4	1977.0	2022.1	2073.8	2095.6	2087.3	2029.1	1929.5	1823.4	1786.2
45°	2083.1	2081.2	2136.6	2209.2	2252.0	2238.0	2159.9	2052.4	1934.1	1895.5
47.5°	2163.6	2164.5	2224.1	2313.9	2388.8	2393.9	2293.4	2177.5	2056.1	2012.3
50°	2221.8	2224.5	2288.3	2387.9	2490.3	2535.4	2429.8	2306.0	2182.2	2132.9
52.5°	2236.2	2241.3	2318.1	2434.9	2555.4	2641.5	2568.5	2429.3	2301.8	2254.8
55°	2159.4	2169.6	2266.9	2431.2	2595.5	2711.3	2690.4	2554.5	2422.3	2373.9
57.5°	1983.0	1997.4	2111.0	2325.5	2586.6	2759.3	2784.9	2674.6	2542.9	2496.3
60°	1735.9	1753.1	1862.0	2096.1	2461.9	2777.0	2851.4	2791.4	2653.6	2608.5
62.5°	1363.1	1385.5	1515.8	1790.3	2198.5	2694.6	2908.2	2897.0	2753.2	2696.9
65°	874.5	898.2	1035.5	1359.9	1847.1	2442.3	2925.9	2999.9	2858.4	2779.8
67.5°	527.3	538.0	605.9	824.2	1350.1	2062.1	2776.0	3113.9	2981.3	2883.5
70°	337.4	343.5	383.9	484.0	763.2	1504.6	2404.6	3135.3	3130.2	2990.1
72.5°	229.0	230.8	241.5	286.7	431.9	854.9	1773.6	2838.4	3223.3	3127.4
75°	167.5	177.8	195.0	202.9	245.3	427.2	1016.4	1994.2	2716.5	2758.3
77.5°	124.7	125.2	148.9	158.2	175.0	227.6	430.0	1113.2	1686.6	1770.8
80°	105.6	100.1	99.6	127.5	131.7	141.9	192.2	384.4	604.1	366.3
82.5°	88.0	81.9	74.0	99.6	89.8	87.0	83.3	156.4	192.2	94.5
85°	61.4	58.6	55.8	65.2	51.2	43.7	40.0	73.1	81.0	40.0
87.5°	26.5	27.5	27.9	28.9	21.4	15.4	15.4	20.5	20.5	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
976.4
982.4
1006.2
1046.7
1094.1
1141.1
1190.9
1228.6
1259.3
1288.2
1320.8
1354.7
1392.4
1448.7
1515.8
1594.9
1692.1
1795.5
1904.4
2025.4
2147.8
2266.9
2387.4
2507.0
2618.3
2703.4
2789.5
2891.0
2989.2
3112.5
2656.9
1579.5
276.9
80.5
35.4
11.6
0.0

OF REPORT)