

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: P946766

Luminaire Tested: **GALN-SB2B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946766
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-SB2B-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10084 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

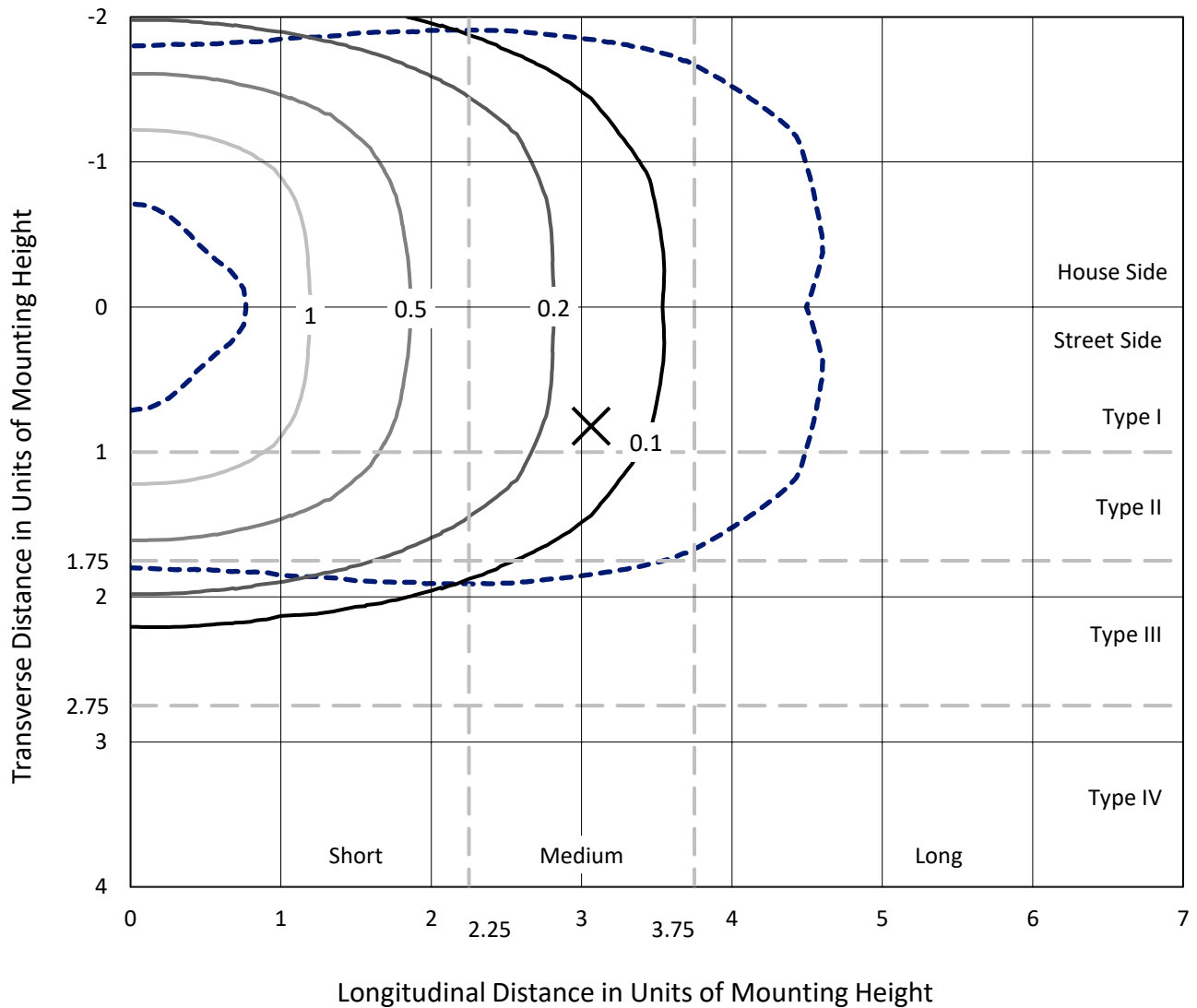
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946766
 CATALOG NUMBER: GALN-SB2B-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

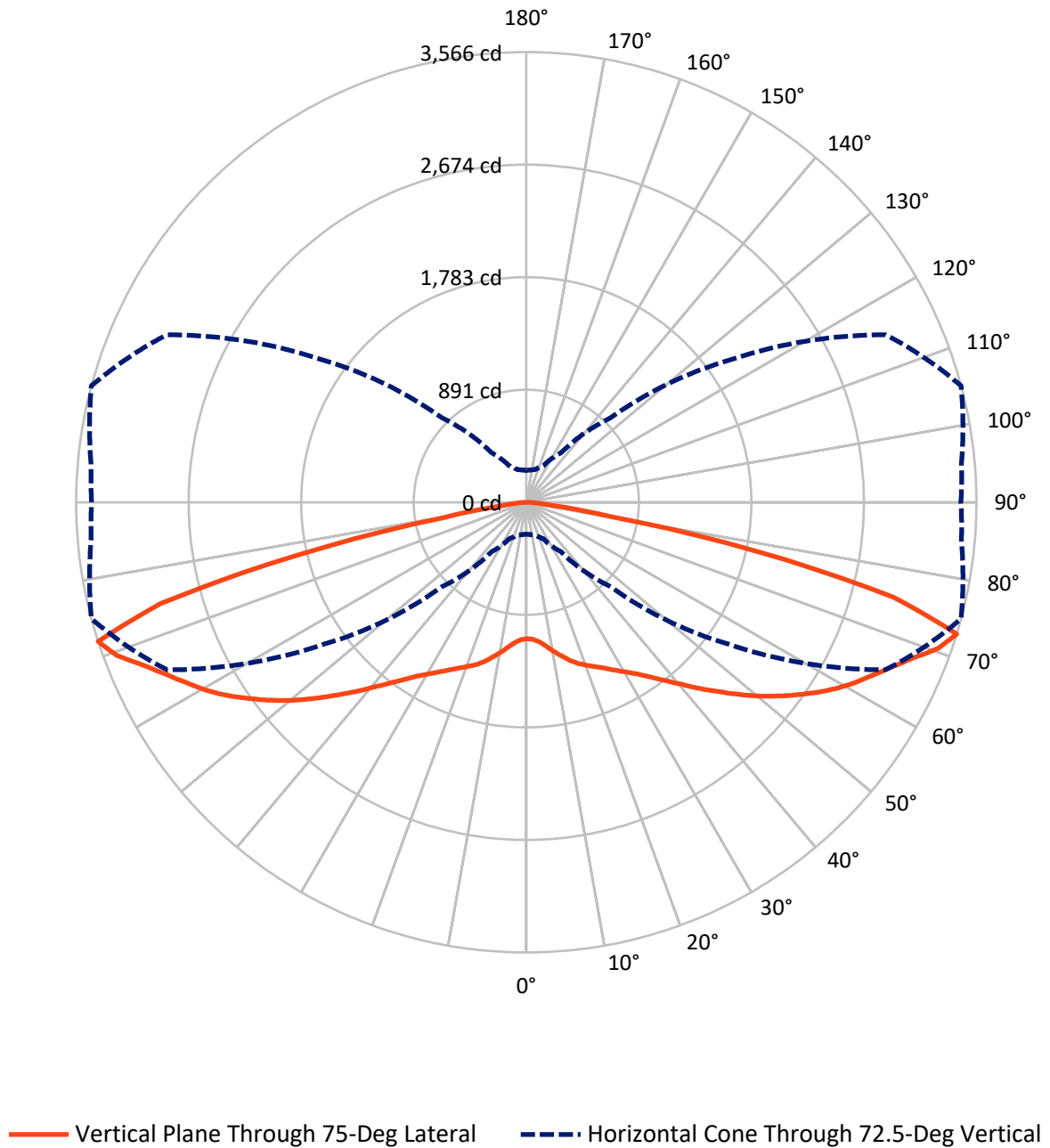
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P946766
CATALOG NUMBER: GALN-SB2B-827-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P946766

CATALOG NUMBER: GALN-SB2B-827-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5042.0	0.0	5042.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5042.0	0.0	5042.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10084.0	0.0	10084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.0
10°-20°	349.0	3.5
20°-30°	674.4	6.7
30°-40°	1138.7	11.3
40°-50°	1805.8	17.9
50°-60°	2417.8	24.0
60°-70°	2301.0	22.8
70°-80°	1200.7	11.9
80°-90°	90.9	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°	10084.0	100.0
0°-180°	10084.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946766

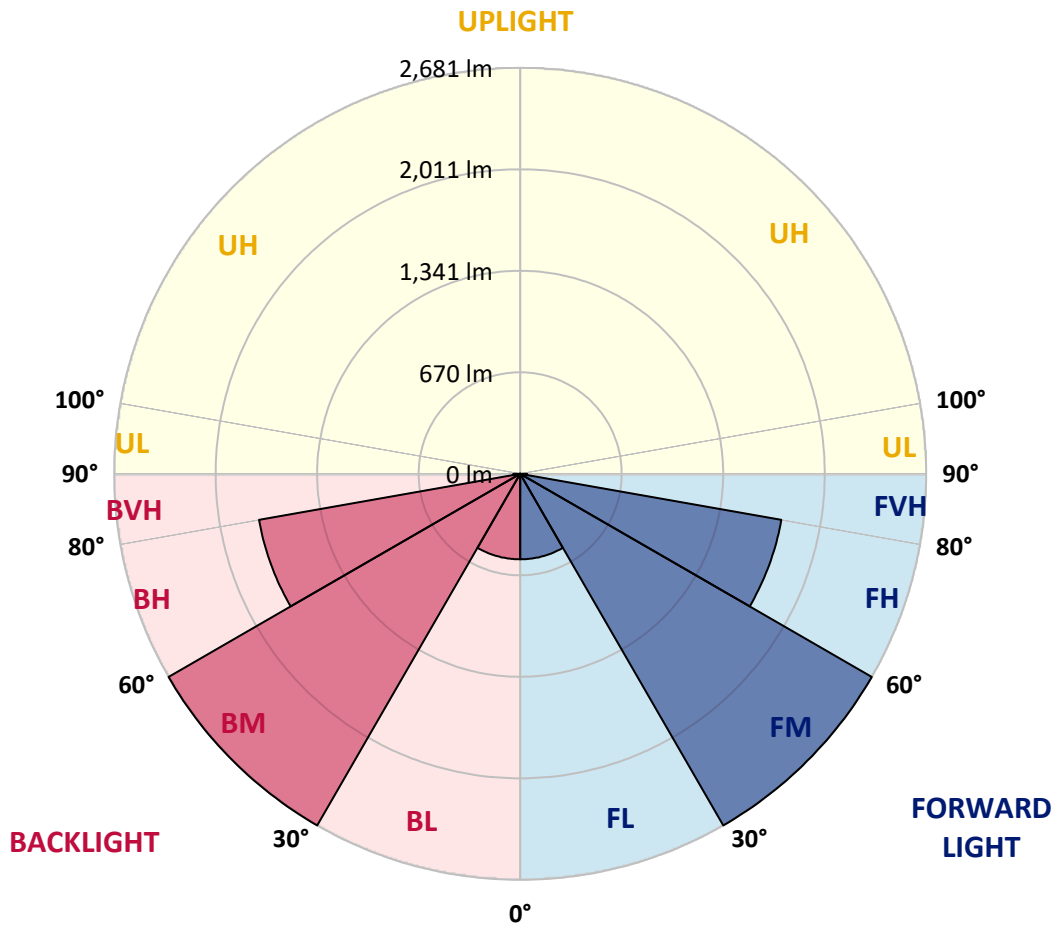
CATALOG NUMBER: GALN-SB2B-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.6	5.6			
FM (30°-60°)	2681.2	26.6			
FH (60°-80°)	1750.8	17.4			G1/1800
FVH (80°-90°)	45.4	0.5			G1/100
BL (0°-30°)	564.6	5.6	B2/1000		
BM (30°-60°)	2681.2	26.6	B3/5000		
BH (60°-80°)	1750.8	17.4	B3/2500		G3/2500
BVH (80°-90°)	45.4	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



REPORT NUMBER: P946766

CATALOG NUMBER: GALN-SB2B-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1080.2	1080.2	1080.2	1080.2	1080.2	1080.2	1080.2	1080.2	1080.2	1080.2
2.5°	1080.2	1079.1	1080.2	1081.2	1080.7	1080.7	1083.3	1084.8	1087.9	1087.4
5°	1073.0	1072.5	1076.6	1081.2	1084.8	1091.0	1098.7	1104.4	1111.6	1113.1
7.5°	1069.4	1067.8	1075.0	1083.3	1094.6	1110.0	1125.0	1140.4	1152.8	1156.9
10°	1071.9	1072.5	1082.2	1097.7	1115.7	1137.3	1158.4	1184.7	1202.2	1206.3
12.5°	1083.8	1082.8	1099.2	1123.9	1148.7	1175.9	1200.7	1229.5	1248.5	1258.3
15°	1105.4	1103.3	1126.5	1163.1	1199.1	1231.0	1251.1	1278.4	1300.5	1312.9
17.5°	1131.1	1132.2	1162.6	1209.9	1257.3	1293.3	1312.4	1326.3	1343.3	1354.1
20°	1176.5	1178.5	1212.5	1268.6	1322.7	1363.9	1379.3	1374.2	1378.8	1387.0
22.5°	1237.2	1238.2	1276.3	1337.1	1393.7	1439.0	1449.3	1428.2	1415.4	1421.0
25°	1307.7	1314.4	1352.5	1414.8	1473.0	1516.3	1520.9	1489.0	1457.1	1458.6
27.5°	1393.7	1399.9	1438.5	1500.3	1559.5	1597.1	1596.6	1553.8	1507.0	1495.2
30°	1486.9	1493.6	1533.3	1597.1	1652.2	1685.1	1677.9	1627.0	1560.0	1537.9
32.5°	1597.6	1601.7	1641.9	1705.7	1756.7	1783.0	1768.0	1705.2	1621.8	1596.6
35°	1731.5	1737.7	1767.5	1827.8	1872.5	1894.2	1868.9	1794.8	1701.1	1672.8
37.5°	1884.4	1880.3	1914.3	1967.8	2004.9	2018.3	1983.8	1895.7	1791.7	1758.2
40°	2044.0	2041.9	2079.0	2130.5	2150.6	2158.8	2107.8	2011.6	1896.2	1860.2
42.5°	2188.7	2187.1	2237.1	2294.2	2318.4	2309.1	2244.8	2134.6	2017.2	1976.0
45°	2304.5	2302.5	2363.7	2444.0	2491.4	2476.0	2389.5	2270.5	2139.8	2097.0
47.5°	2393.6	2394.6	2460.5	2559.9	2642.8	2648.4	2537.2	2409.0	2274.7	2226.3
50°	2457.9	2461.0	2531.6	2641.7	2755.0	2805.0	2688.1	2551.1	2414.2	2359.6
52.5°	2473.9	2479.6	2564.5	2693.7	2827.1	2922.3	2841.5	2687.6	2546.5	2494.5
55°	2389.0	2400.3	2507.9	2689.6	2871.4	2999.6	2976.4	2826.1	2679.8	2626.3
57.5°	2193.8	2209.8	2335.4	2572.8	2861.6	3052.6	3080.9	2958.9	2813.2	2761.7
60°	1920.4	1939.5	2060.0	2318.9	2723.6	3072.2	3154.5	3088.1	2935.7	2885.8
62.5°	1508.0	1532.7	1676.9	1980.7	2432.2	2981.0	3217.4	3205.0	3045.9	2983.6
65°	967.4	993.7	1145.6	1504.4	2043.5	2702.0	3236.9	3318.8	3162.3	3075.3
67.5°	583.3	595.2	670.3	911.8	1493.6	2281.3	3071.1	3444.9	3298.2	3190.1
70°	373.3	380.0	424.8	535.5	844.4	1664.5	2660.3	3468.6	3463.0	3308.0
72.5°	253.3	255.4	267.2	317.2	477.8	945.8	1962.1	3140.1	3565.9	3459.9
75°	185.3	196.7	215.7	224.5	271.3	472.6	1124.5	2206.2	3005.2	3051.6
77.5°	138.0	138.5	164.8	175.1	193.6	251.8	475.7	1231.5	1865.9	1959.0
80°	116.9	110.7	110.2	141.1	145.7	157.0	212.6	425.3	668.3	405.2
82.5°	97.3	90.6	81.9	110.2	99.4	96.3	92.2	173.0	212.6	104.5
85°	68.0	64.9	61.8	72.1	56.6	48.4	44.3	80.8	89.6	44.3
87.5°	29.3	30.4	30.9	31.9	23.7	17.0	17.0	22.7	22.7	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1080.2
1086.9
1113.1
1157.9
1210.4
1262.4
1317.5
1359.2
1393.2
1425.1
1461.2
1498.8
1540.5
1602.8
1676.9
1764.4
1872.0
1986.3
2106.8
2240.7
2376.1
2507.9
2641.2
2773.6
2896.6
2990.8
3086.1
3198.3
3306.9
3443.4
2939.3
1747.4
306.3
89.1
39.1
12.9
0.0

OF REPORT)