

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: P946049

Luminaire Tested: **GALN-SB1D-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946049  
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-SB1D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

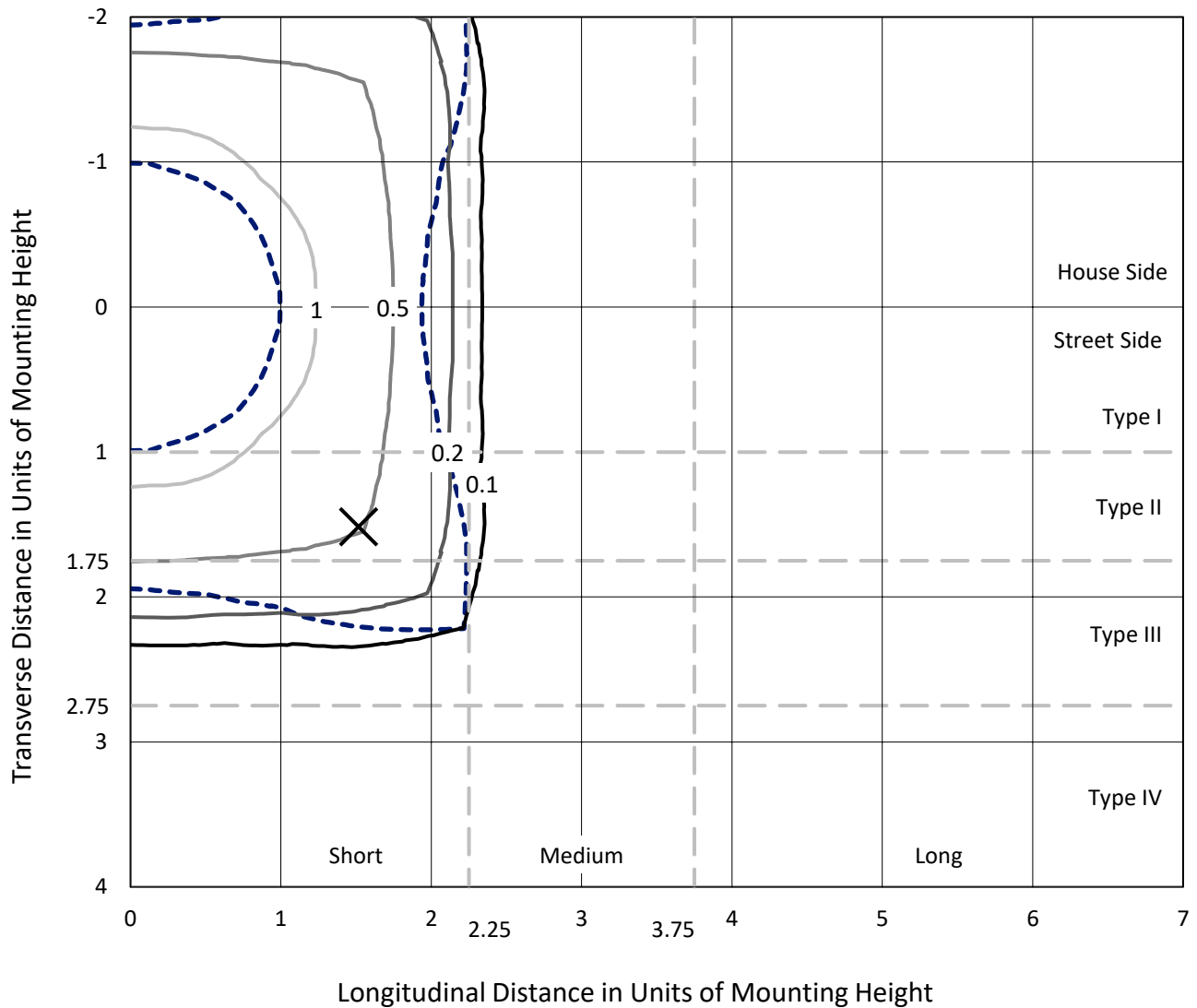
Lumens per Lamp: N/A  
Luminaire Lumens: 9276 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

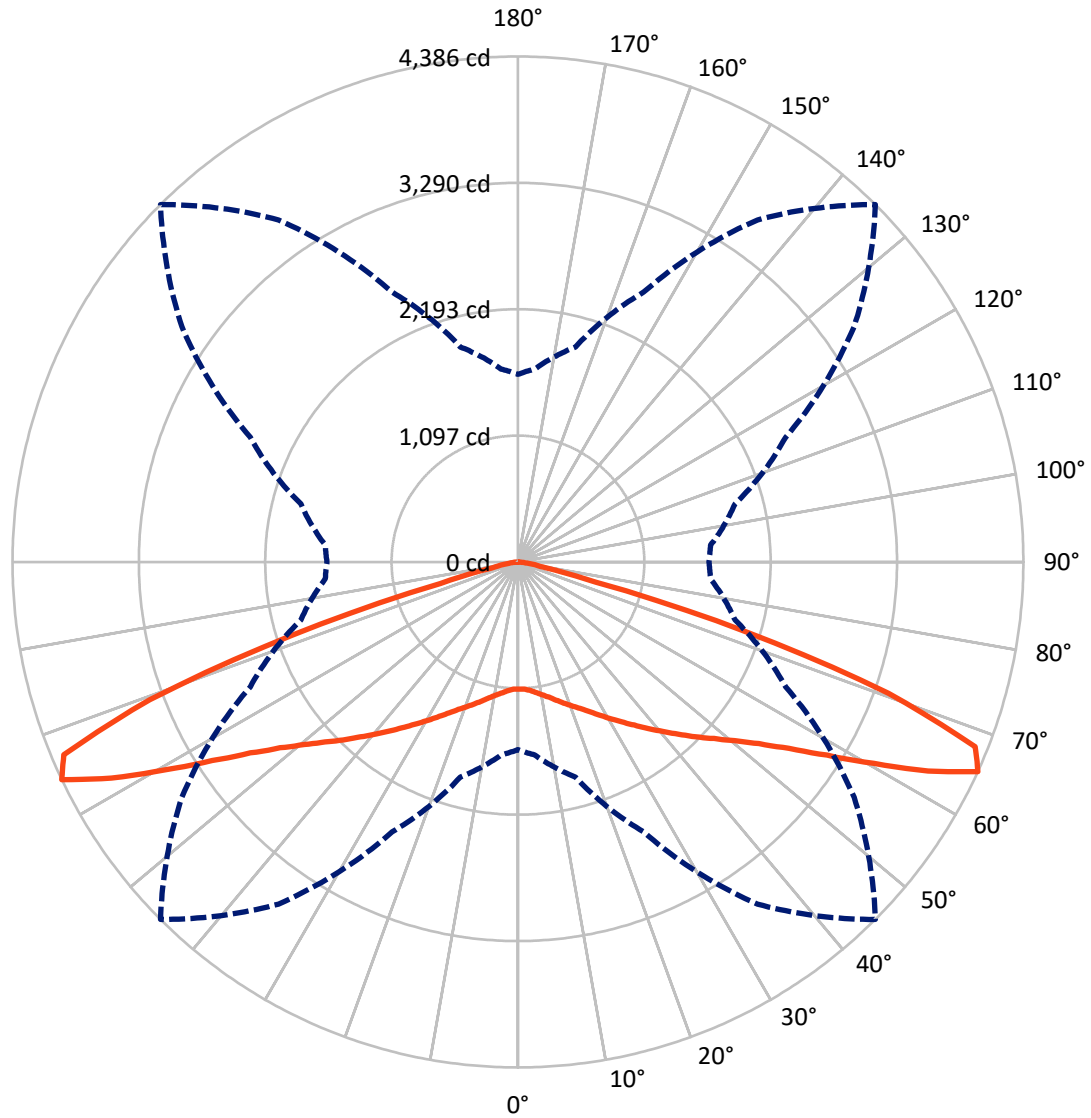
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4638.0	0.0	4638.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4638.0	0.0	4638.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9276.0	0.0	9276.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	1.2
10°-20°	355.5	3.8
20°-30°	671.2	7.2
30°-40°	1099.1	11.8
40°-50°	1704.2	18.4
50°-60°	2517.5	27.1
60°-70°	2396.4	25.8
70°-80°	386.7	4.2
80°-90°	36.4	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°	9276.0	100.0
0°-180°	9276.0	100.0



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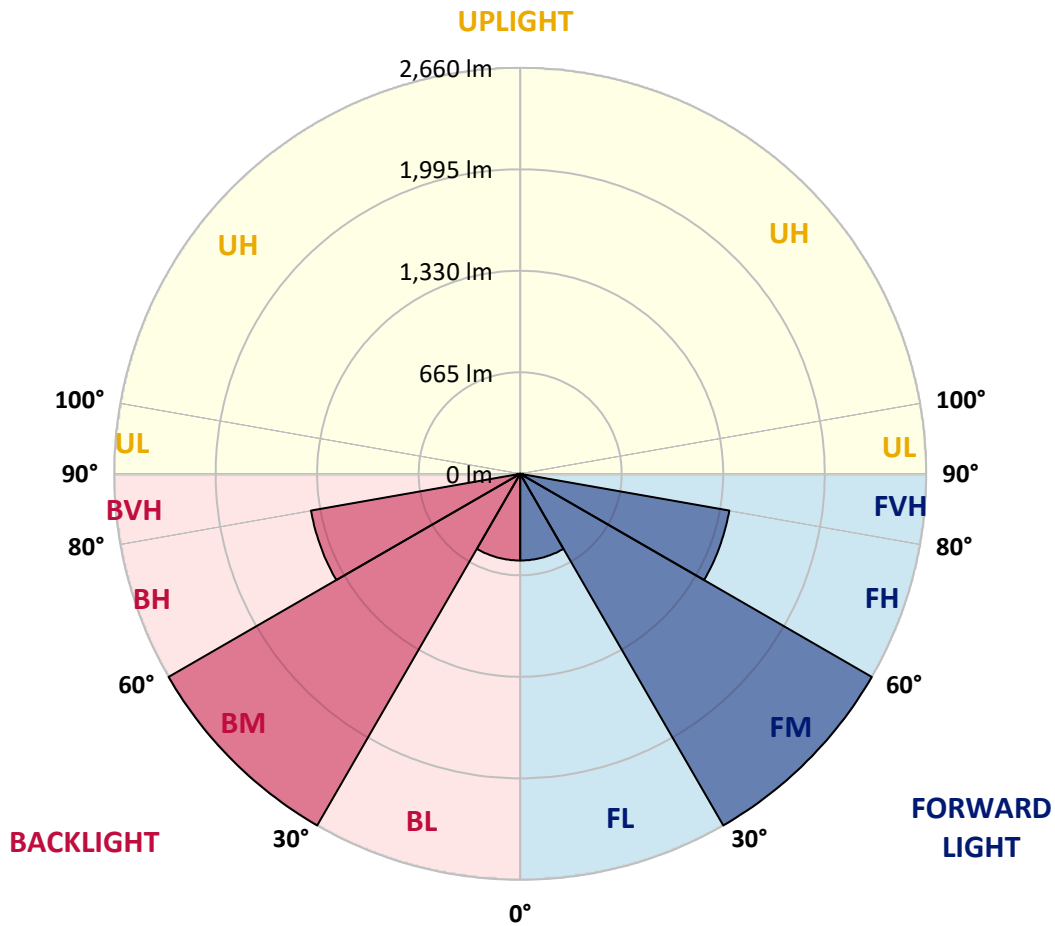
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.8	6.1			
FM (30°-60°)	2660.4	28.7			
FH (60°-80°)	1391.5	15.0			G1/1800
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	567.8	6.1	B2/1000		
BM (30°-60°)	2660.4	28.7	B3/5000		
BH (60°-80°)	1391.5	15.0	B3/2500		G1/1800
BVH (80°-90°)	18.2	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	1111.4	1107.7	1110.5	1108.1	1106.3	1104.4	1105.3	1108.6	1110.0	1110.5
5°	1126.3	1123.0	1124.4	1124.4	1121.2	1120.2	1120.7	1123.0	1125.8	1125.8
7.5°	1150.5	1147.2	1150.5	1148.6	1145.8	1144.9	1144.4	1146.3	1150.5	1150.5
10°	1179.8	1176.1	1177.9	1177.0	1173.7	1172.4	1171.9	1174.7	1178.4	1177.9
12.5°	1211.9	1207.7	1210.0	1207.3	1206.3	1204.9	1204.9	1204.5	1206.8	1204.9
15°	1247.7	1245.0	1245.9	1244.0	1245.4	1244.5	1240.8	1238.9	1239.8	1237.0
17.5°	1290.1	1283.6	1286.8	1285.9	1285.9	1287.8	1281.7	1279.4	1281.3	1278.5
20°	1339.0	1332.4	1333.8	1332.0	1329.7	1331.5	1324.1	1325.9	1327.3	1325.5
22.5°	1392.5	1384.1	1383.6	1384.6	1379.5	1379.9	1374.8	1379.5	1382.2	1377.1
25°	1447.4	1438.6	1444.6	1442.3	1435.8	1437.2	1433.4	1438.1	1440.4	1433.9
27.5°	1505.6	1499.5	1505.1	1506.5	1498.6	1504.2	1498.6	1502.8	1505.1	1495.3
30°	1573.5	1567.5	1572.6	1576.3	1567.0	1575.9	1571.2	1574.0	1574.5	1562.8
32.5°	1647.5	1638.2	1651.3	1653.1	1642.9	1653.6	1647.5	1651.3	1653.6	1637.8
35°	1737.8	1726.2	1741.1	1738.7	1729.9	1738.7	1733.2	1738.7	1744.3	1725.3
37.5°	1835.1	1823.0	1838.8	1834.6	1826.2	1832.3	1829.0	1832.8	1841.6	1821.1
40°	1942.1	1927.2	1948.6	1941.2	1933.3	1932.4	1934.2	1936.5	1948.2	1925.4
42.5°	2056.6	2040.8	2072.9	2061.3	2050.1	2042.7	2048.7	2053.4	2064.5	2038.9
45°	2187.4	2169.2	2211.1	2197.2	2179.5	2164.1	2173.9	2180.9	2197.2	2166.5
47.5°	2331.7	2311.2	2355.9	2351.7	2322.8	2289.3	2311.7	2331.7	2343.8	2306.5
50°	2472.7	2456.9	2515.5	2520.6	2485.3	2438.2	2469.4	2499.7	2502.9	2454.1
52.5°	2604.9	2589.0	2674.2	2706.3	2674.7	2618.8	2651.9	2682.6	2657.9	2594.6
55°	2710.5	2697.5	2805.9	2888.8	2899.5	2853.4	2872.9	2872.0	2791.0	2693.8
57.5°	2736.1	2734.2	2871.1	3046.5	3158.2	3163.8	3125.2	3026.5	2852.0	2721.2
60°	2619.8	2631.4	2819.4	3128.9	3426.8	3550.6	3383.5	3101.9	2782.6	2601.1
62.5°	2271.6	2302.4	2529.0	3028.4	3643.6	3995.5	3590.6	2987.4	2497.8	2260.9
65°	1628.0	1681.5	1931.9	2584.4	3624.1	4386.4	3560.8	2563.4	1950.5	1677.3
67.5°	738.6	793.0	1005.7	1769.5	3150.3	4280.3	3142.9	1788.1	1056.0	795.8
70°	267.6	276.9	345.3	708.3	2013.3	3410.5	2099.4	713.5	367.2	295.1
72.5°	162.0	163.4	177.8	253.6	699.5	2070.6	729.3	262.0	181.5	161.0
75°	102.9	101.9	126.6	155.0	248.1	698.6	260.2	155.0	126.1	115.0
77.5°	74.0	76.3	90.8	115.9	156.4	236.9	153.6	110.8	90.8	74.5
80°	55.4	56.8	66.1	90.3	109.8	147.5	97.7	81.9	68.4	46.5
82.5°	40.0	40.0	43.3	65.6	67.0	79.6	53.1	57.7	45.1	33.0
85°	23.7	23.3	27.0	39.1	34.9	29.3	24.2	35.4	28.4	20.5
87.5°	8.4	8.8	8.4	11.2	9.3	7.9	7.4	9.8	7.9	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1103.9
1110.5
1125.8
1149.1
1177.0
1205.9
1237.5
1280.8
1329.7
1382.2
1441.4
1502.8
1569.8
1648.5
1736.9
1833.7
1932.8
2052.4
2182.3
2319.1
2460.1
2596.5
2697.0
2712.8
2579.7
2247.0
1657.3
784.2
291.3
163.8
115.9
75.9
47.9
33.0
20.0
6.5
0.0

OF REPORT)