

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: P946763

Luminaire Tested: **GALN-SB2B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946763
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-SB2B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10261 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

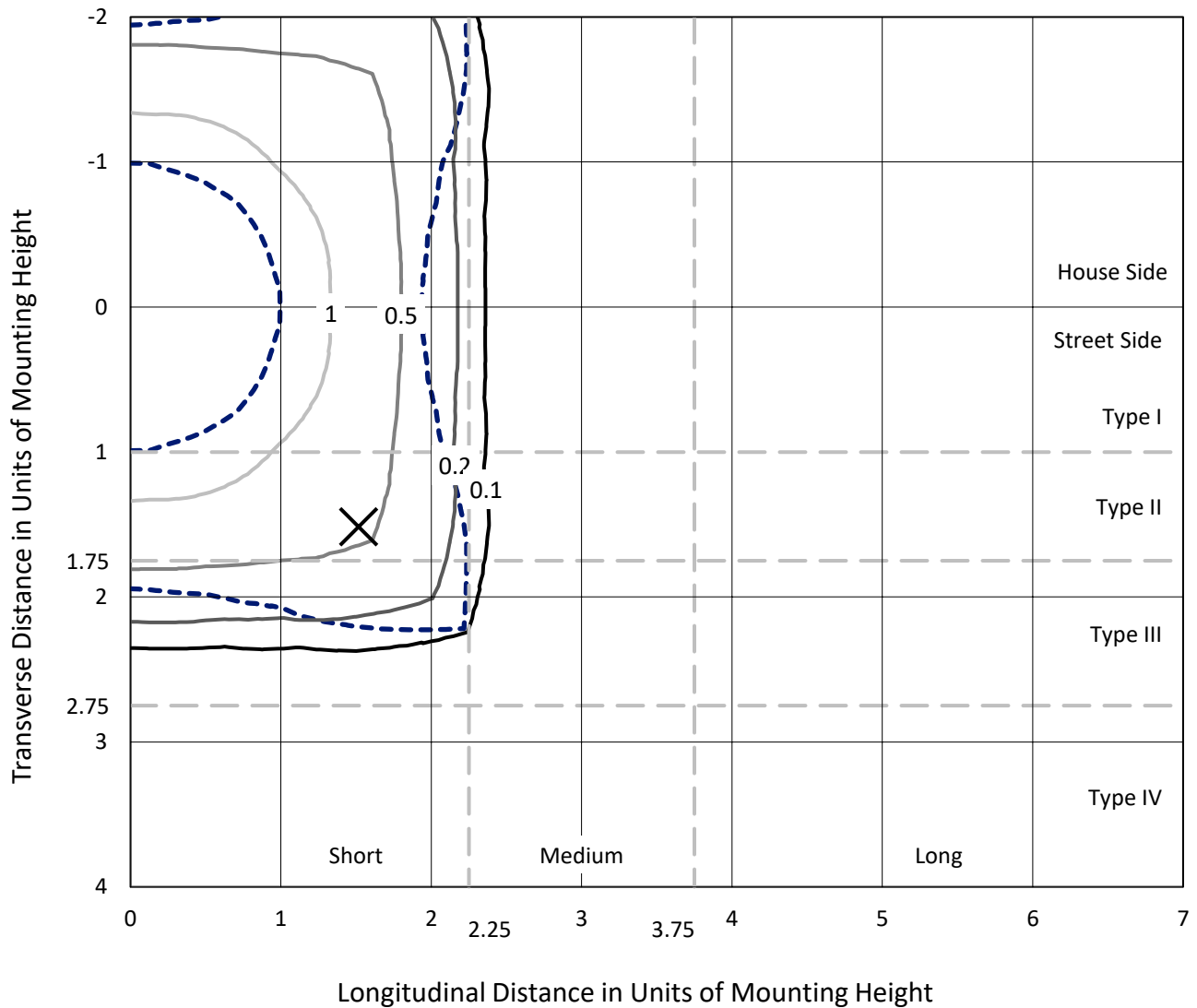
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

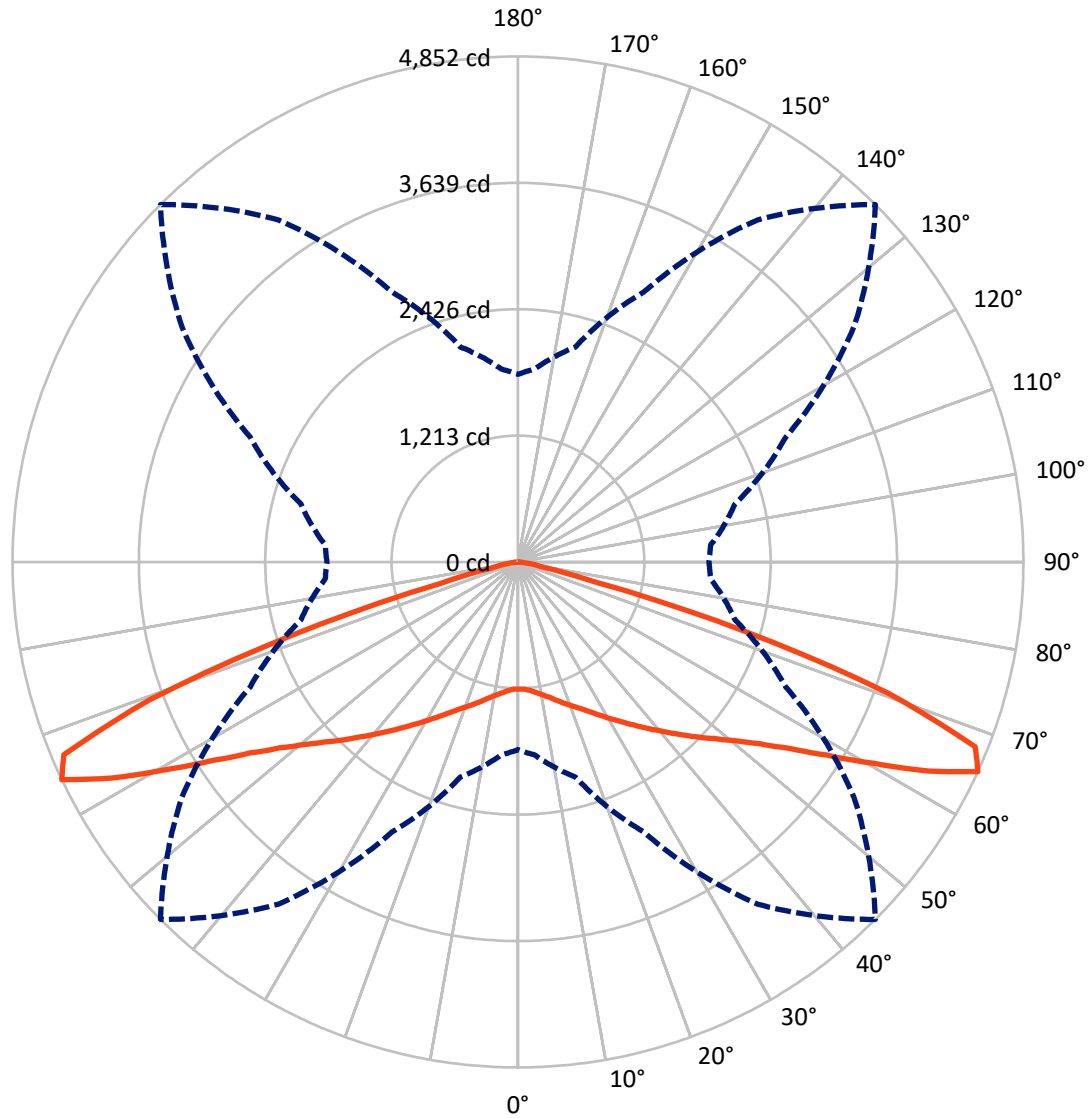
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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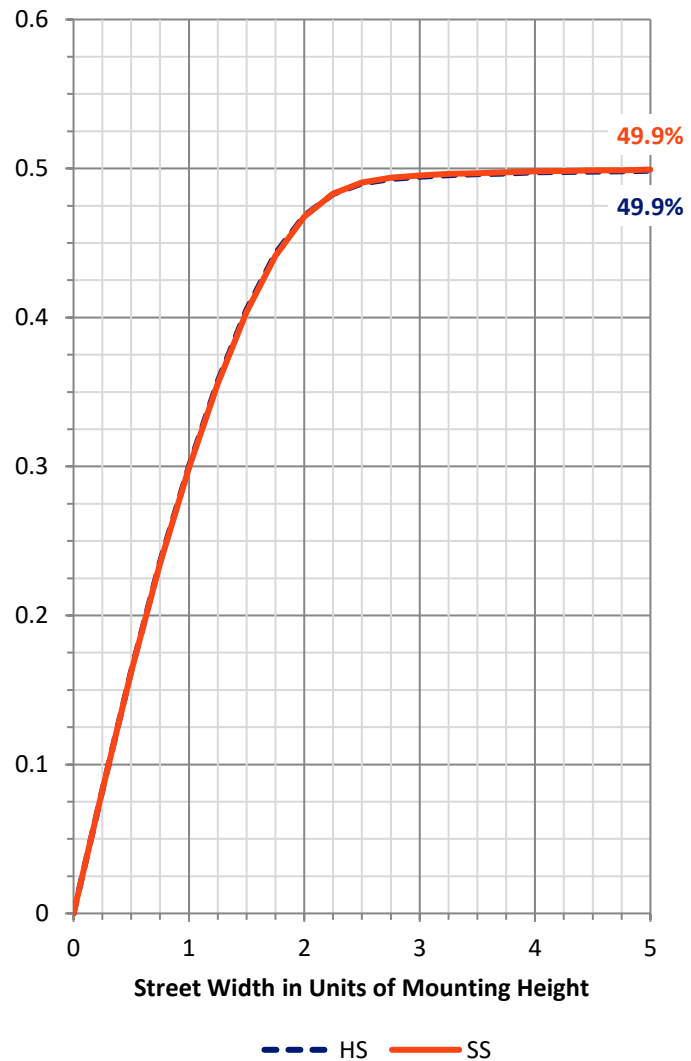
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.5	0.0	5130.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5130.5	0.0	5130.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10261.0	0.0	10261.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.2
10°-20°	393.3	3.8
20°-30°	742.5	7.2
30°-40°	1215.8	11.8
40°-50°	1885.2	18.4
50°-60°	2784.8	27.1
60°-70°	2650.9	25.8
70°-80°	427.8	4.2
80°-90°	40.3	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°	10261.0	100.0
0°-180°	10261.0	100.0



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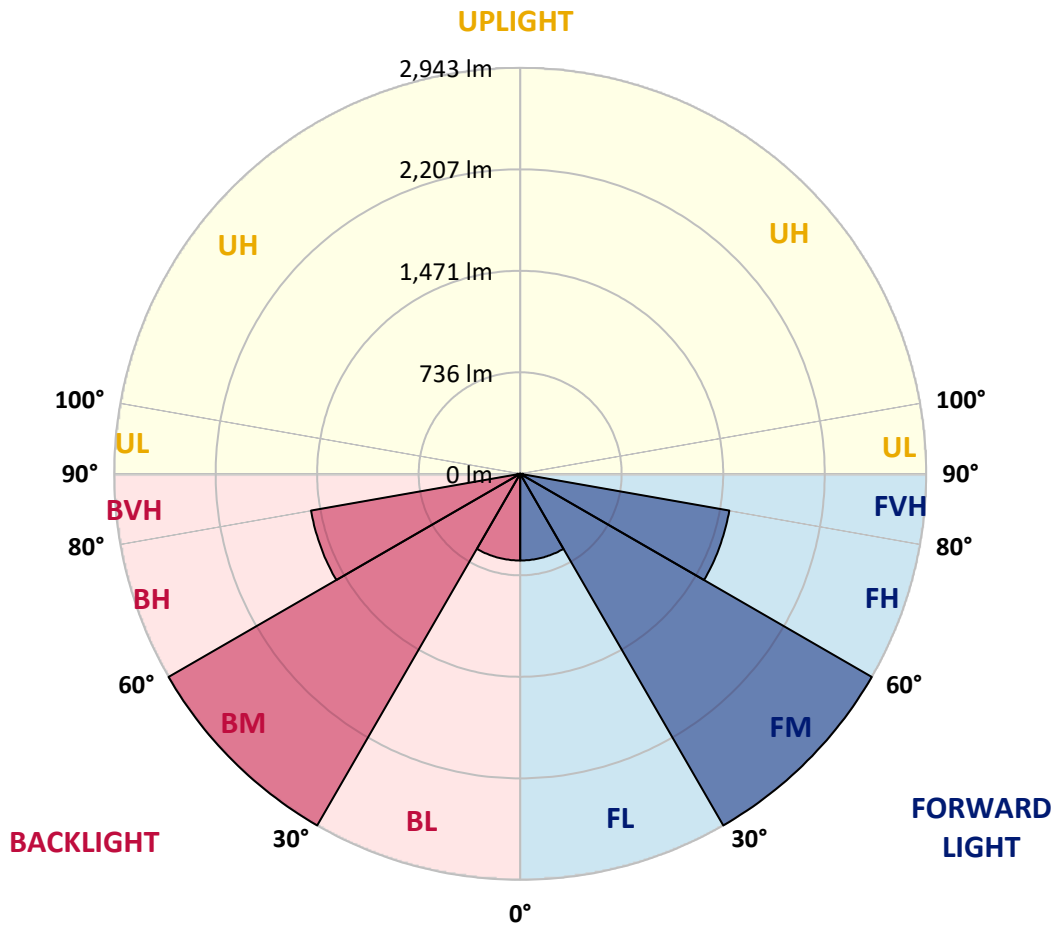
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.1	6.1			
FM (30°-60°)	2942.9	28.7			
FH (60°-80°)	1539.3	15.0			G1/1800
FVH (80°-90°)	20.2	0.2			G1/100
BL (0°-30°)	628.1	6.1	B2/1000		
BM (30°-60°)	2942.9	28.7	B3/5000		
BH (60°-80°)	1539.3	15.0	B3/2500		G1/1800
BVH (80°-90°)	20.2	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°	1221.2	1221.2	1221.2	1221.2	1221.2	1221.2	1221.2	1221.2	1221.2	1221.2
2.5°	1229.4	1225.3	1228.4	1225.8	1223.7	1221.7	1222.7	1226.3	1227.9	1228.4
5°	1245.9	1242.3	1243.8	1243.8	1240.2	1239.2	1239.7	1242.3	1245.4	1245.4
7.5°	1272.6	1269.0	1272.6	1270.6	1267.5	1266.5	1266.0	1268.0	1272.6	1272.6
10°	1305.1	1301.0	1303.0	1302.0	1298.4	1296.8	1296.3	1299.4	1303.5	1303.0
12.5°	1340.6	1336.0	1338.5	1335.5	1334.4	1332.9	1332.9	1332.4	1334.9	1332.9
15°	1380.2	1377.2	1378.2	1376.1	1377.7	1376.6	1372.5	1370.5	1371.5	1368.4
17.5°	1427.1	1419.9	1423.5	1422.5	1422.5	1424.5	1417.8	1415.3	1417.3	1414.2
20°	1481.1	1473.9	1475.5	1473.4	1470.9	1472.9	1464.7	1466.7	1468.3	1466.2
22.5°	1540.4	1531.1	1530.6	1531.6	1525.9	1526.5	1520.8	1525.9	1529.0	1523.4
25°	1601.1	1591.3	1598.0	1595.4	1588.2	1589.8	1585.7	1590.8	1593.4	1586.2
27.5°	1665.5	1658.8	1664.9	1666.5	1657.7	1663.9	1657.7	1662.4	1664.9	1654.1
30°	1740.6	1733.9	1739.6	1743.7	1733.4	1743.2	1738.0	1741.1	1741.6	1728.8
32.5°	1822.5	1812.2	1826.6	1828.7	1817.3	1829.2	1822.5	1826.6	1829.2	1811.7
35°	1922.4	1909.5	1926.0	1923.4	1913.6	1923.4	1917.2	1923.4	1929.6	1908.5
37.5°	2029.9	2016.6	2034.1	2029.4	2020.2	2026.9	2023.3	2027.4	2037.2	2014.5
40°	2148.4	2131.9	2155.6	2147.3	2138.6	2137.5	2139.6	2142.2	2155.1	2129.8
42.5°	2275.0	2257.5	2293.0	2280.2	2267.8	2259.6	2266.3	2271.4	2283.8	2255.4
45°	2419.7	2399.6	2445.9	2430.5	2410.9	2393.9	2404.7	2412.5	2430.5	2396.5
47.5°	2579.3	2556.6	2606.0	2601.4	2569.5	2532.4	2557.1	2579.3	2592.7	2551.5
50°	2735.3	2717.8	2782.6	2788.3	2749.2	2697.2	2731.7	2765.1	2768.7	2714.7
52.5°	2881.5	2864.0	2958.2	2993.7	2958.7	2896.9	2933.5	2967.4	2940.2	2870.1
55°	2998.3	2983.9	3103.9	3195.5	3207.4	3156.4	3178.0	3177.0	3087.4	2979.8
57.5°	3026.6	3024.6	3175.9	3370.0	3493.6	3499.8	3457.0	3347.9	3154.8	3010.2
60°	2897.9	2910.8	3118.8	3461.2	3790.6	3927.6	3742.8	3431.3	3078.1	2877.3
62.5°	2512.9	2546.8	2797.6	3350.0	4030.6	4419.8	3971.9	3304.7	2763.1	2501.0
65°	1800.9	1860.1	2137.0	2858.8	4008.9	4852.2	3938.9	2835.6	2157.6	1855.4
67.5°	817.0	877.3	1112.5	1957.4	3484.8	4734.8	3476.6	1978.0	1168.1	880.3
70°	296.0	306.3	382.0	783.6	2227.1	3772.6	2322.4	789.2	406.2	326.4
72.5°	179.2	180.7	196.7	280.6	773.8	2290.5	806.7	289.8	200.8	178.1
75°	113.8	112.7	140.0	171.4	274.4	772.8	287.8	171.4	139.5	127.2
77.5°	81.9	84.4	100.4	128.2	173.0	262.0	169.9	122.5	100.4	82.4
80°	61.3	62.8	73.1	99.9	121.5	163.2	108.1	90.6	75.7	51.5
82.5°	44.3	44.3	47.9	72.6	74.1	88.0	58.7	63.8	49.9	36.6
85°	26.3	25.7	29.9	43.2	38.6	32.4	26.8	39.1	31.4	22.7
87.5°	9.3	9.8	9.3	12.4	10.3	8.8	8.2	10.8	8.8	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1221.2
1228.4
1245.4
1271.1
1302.0
1333.9
1368.9
1416.8
1470.9
1529.0
1594.4
1662.4
1736.5
1823.5
1921.3
2028.4
2138.1
2270.4
2414.0
2565.4
2721.4
2872.2
2983.4
3000.9
2853.7
2485.6
1833.3
867.5
322.3
181.2
128.2
83.9
53.0
36.6
22.1
7.2
0.0

OF REPORT)