

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: P947581

Luminaire Tested: **GALN-SB2D-927-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12973 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

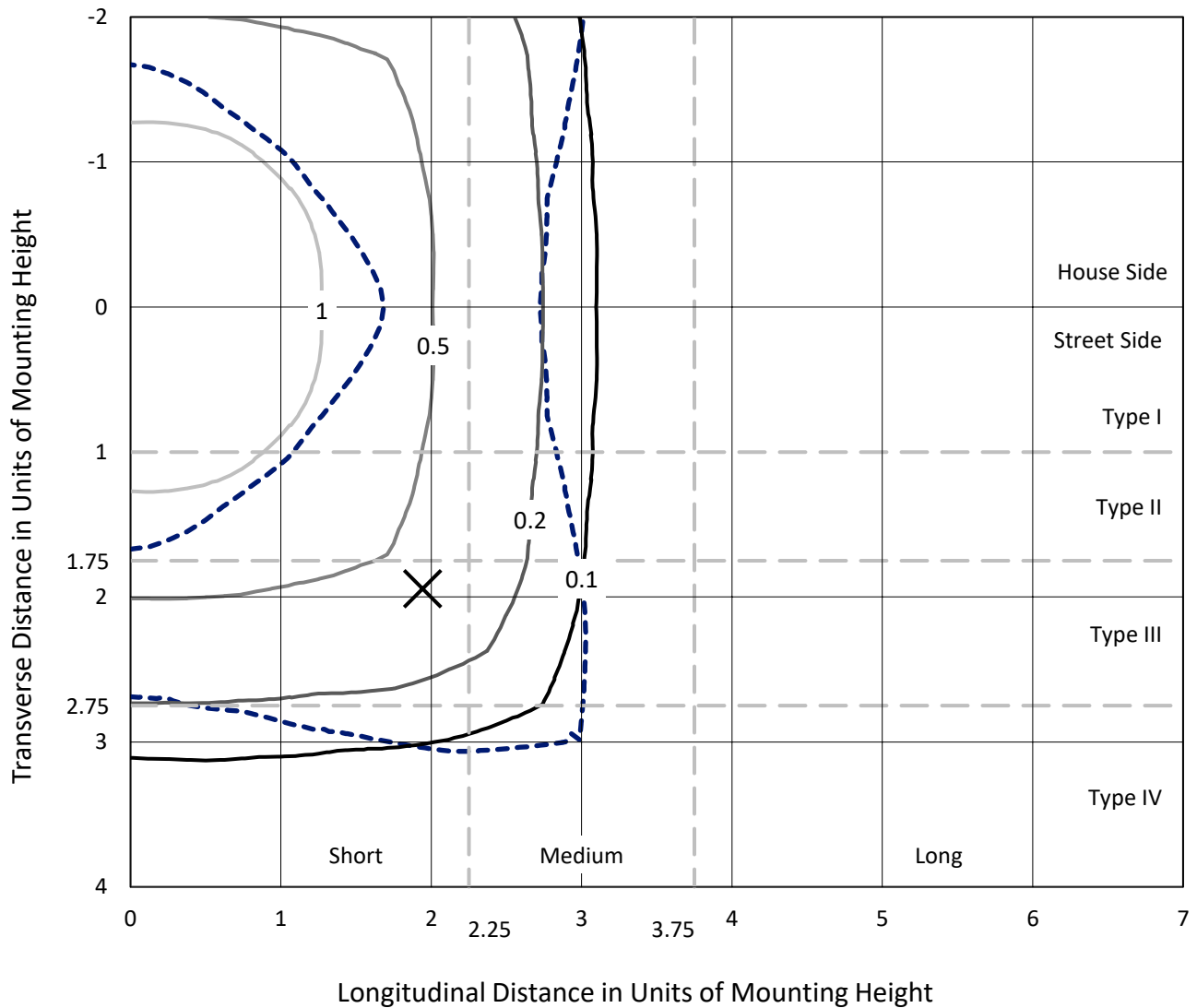
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

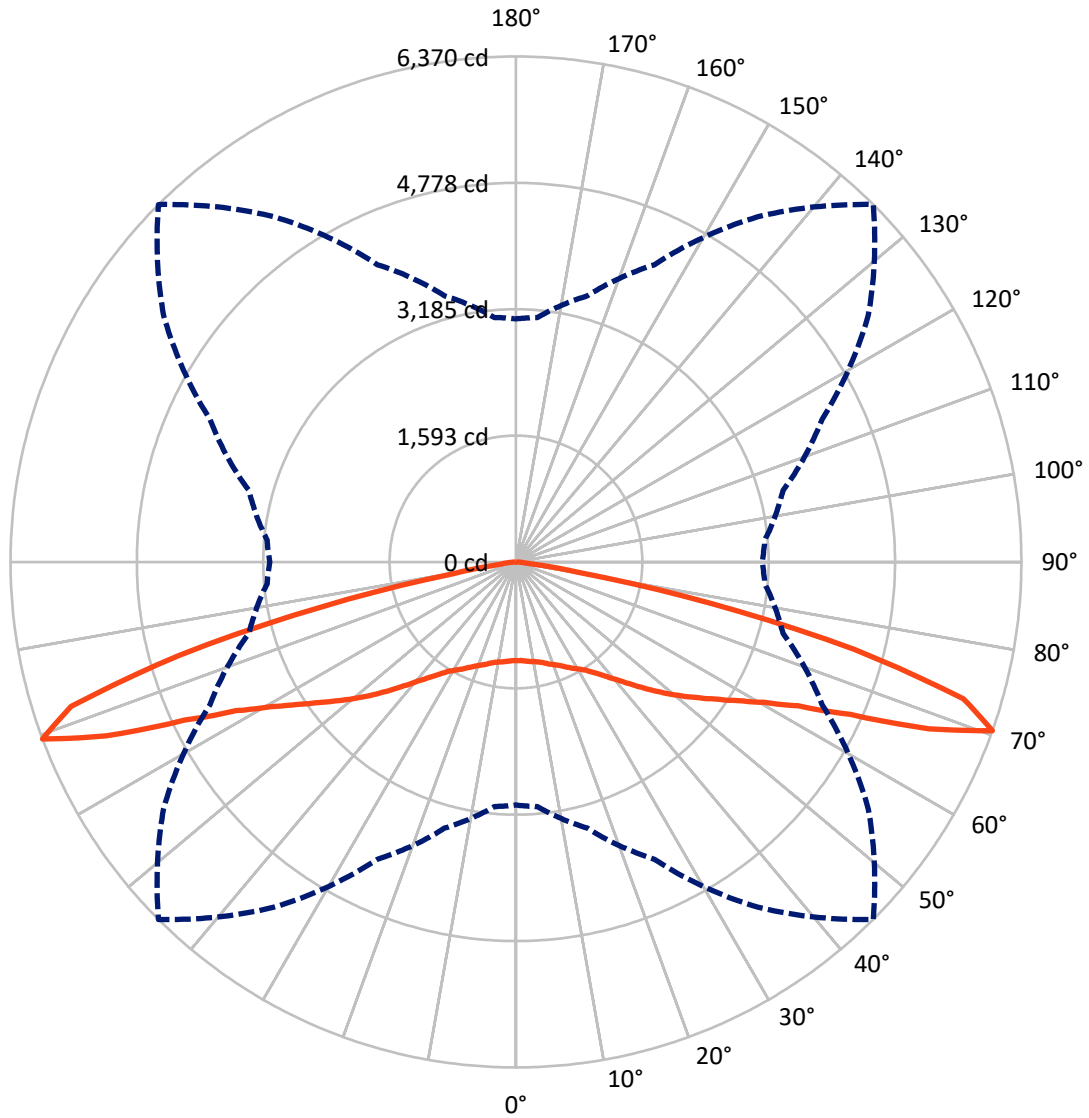
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6486.5	0.0	6486.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6486.5	0.0	6486.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12973.0	0.0	12973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	0.9
10°-20°	374.4	2.9
20°-30°	669.0	5.2
30°-40°	1084.5	8.4
40°-50°	1766.4	13.6
50°-60°	2693.2	20.8
60°-70°	4006.7	30.9
70°-80°	2183.7	16.8
80°-90°	74.4	0.6
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°	12973.0	100.0
0°-180°	12973.0	100.0

Coefficient of Utilization



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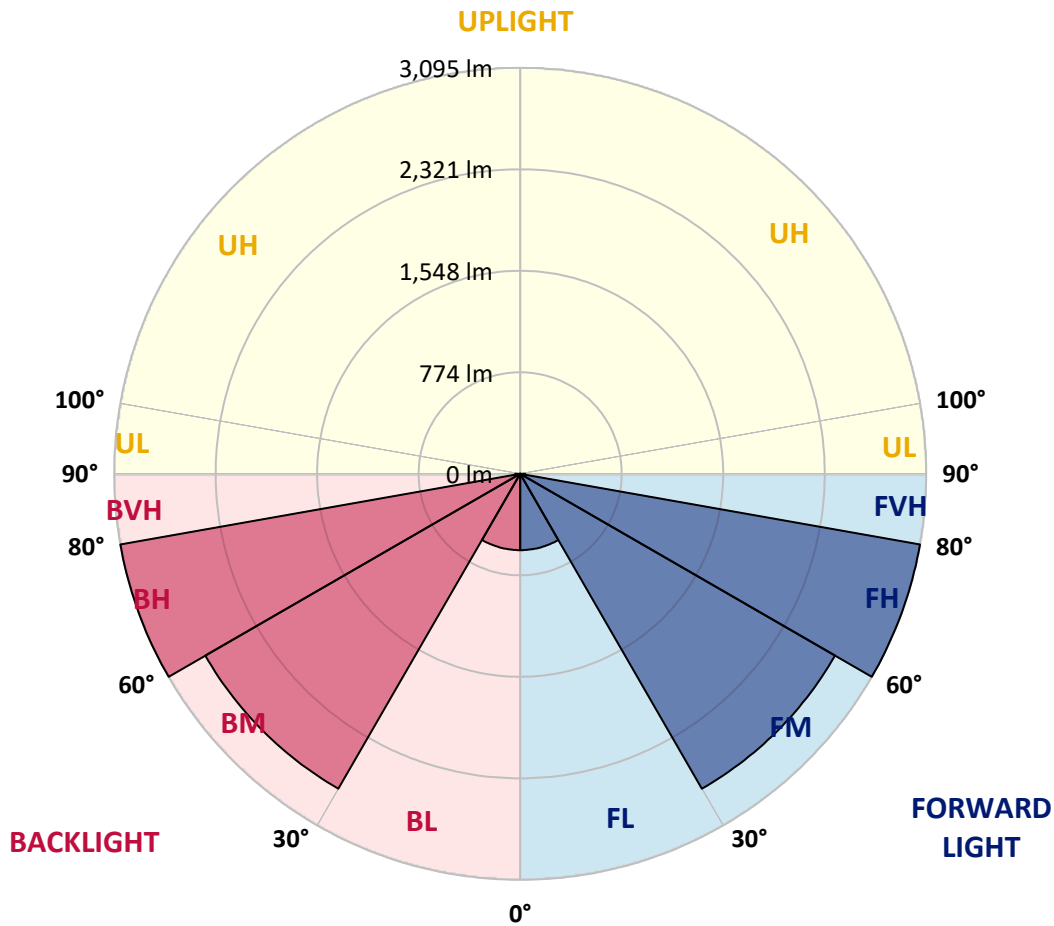
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.1	4.5			
FM (30°-60°)	2772.1	21.4			
FH (60°-80°)	3095.2	23.9			G2/5000
FVH (80°-90°)	37.2	0.3			G1/100
BL (0°-30°)	582.1	4.5	B2/1000		
BM (30°-60°)	2772.1	21.4	B3/5000		
BH (60°-80°)	3095.2	23.9	B4/5000		G2/5000
BVH (80°-90°)	37.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1242.7	1242.7	1242.7	1242.7	1242.7	1242.7	1242.7	1242.7	1242.7	1242.7
2.5°	1248.5	1249.8	1247.2	1245.9	1244.6	1242.7	1243.3	1246.6	1249.2	1248.5
5°	1259.0	1260.3	1258.3	1257.7	1255.1	1254.4	1254.4	1257.7	1259.6	1258.3
7.5°	1270.7	1272.6	1269.4	1268.7	1267.4	1266.1	1265.5	1268.7	1270.7	1270.7
10°	1281.8	1283.7	1281.1	1279.2	1277.8	1277.8	1276.5	1279.2	1282.4	1281.8
12.5°	1293.5	1294.8	1292.2	1290.9	1290.9	1292.8	1290.9	1292.2	1294.8	1293.5
15°	1307.8	1308.5	1307.8	1309.8	1313.0	1319.5	1313.7	1312.4	1313.7	1310.4
17.5°	1327.3	1328.7	1331.3	1335.8	1340.4	1352.1	1341.7	1338.4	1338.4	1331.9
20°	1351.4	1353.4	1357.3	1365.1	1371.0	1382.1	1371.6	1367.1	1365.1	1356.7
22.5°	1376.8	1380.1	1386.0	1396.4	1406.8	1417.2	1406.8	1399.0	1393.1	1382.1
25°	1406.2	1410.1	1419.2	1436.1	1450.4	1465.4	1453.0	1437.4	1425.7	1410.1
27.5°	1447.8	1452.4	1463.5	1484.3	1502.5	1515.6	1503.9	1483.7	1467.4	1448.5
30°	1506.5	1511.0	1524.0	1546.2	1558.6	1567.0	1559.2	1543.6	1524.0	1502.5
32.5°	1582.0	1587.9	1602.2	1623.0	1625.6	1626.9	1624.3	1616.5	1602.2	1576.1
35°	1677.7	1684.3	1700.5	1717.5	1714.9	1717.5	1713.6	1711.0	1700.5	1670.6
37.5°	1795.0	1802.8	1819.7	1832.8	1826.2	1823.0	1823.6	1824.3	1818.4	1785.2
40°	1931.1	1941.5	1953.9	1967.6	1956.5	1946.7	1953.2	1958.5	1953.2	1919.4
42.5°	2071.1	2086.1	2099.1	2118.7	2109.6	2097.2	2106.3	2112.2	2101.1	2064.6
45°	2226.8	2241.1	2258.1	2287.4	2280.9	2267.8	2280.9	2282.2	2263.3	2220.3
47.5°	2387.7	2402.6	2428.0	2467.1	2464.5	2450.2	2467.1	2458.0	2433.9	2382.5
50°	2540.1	2560.9	2600.0	2654.7	2659.9	2642.3	2665.1	2647.5	2607.2	2542.7
52.5°	2683.4	2705.5	2767.4	2841.6	2860.5	2837.7	2868.3	2837.7	2777.1	2694.4
55°	2833.8	2858.6	2932.1	3029.2	3067.0	3050.0	3078.7	3032.4	2946.5	2846.2
57.5°	3011.0	3025.9	3113.9	3229.1	3293.0	3296.9	3309.9	3231.7	3127.5	3013.6
60°	3203.1	3223.9	3319.7	3457.7	3558.7	3591.3	3577.6	3461.7	3340.5	3209.6
62.5°	3449.3	3472.1	3586.7	3752.1	3911.7	3992.5	3939.1	3771.0	3621.2	3464.3
65°	3653.1	3678.5	3885.7	4180.7	4471.2	4633.3	4499.2	4189.8	3920.2	3698.7
67.5°	3505.3	3536.6	3861.6	4403.4	5125.7	5609.6	5150.5	4469.9	3941.7	3641.4
70°	3063.7	3093.0	3472.1	4134.4	5310.0	6370.4	5420.8	4256.2	3484.5	3148.4
72.5°	2034.0	2128.4	2512.1	3306.6	4741.5	5894.9	4788.4	3239.6	2330.3	2029.4
75°	674.7	750.3	1012.1	1714.2	3175.7	4408.6	3023.3	1516.9	801.7	577.1
77.5°	170.0	196.0	270.3	490.4	1266.8	2510.1	1140.4	400.5	218.2	152.4
80°	82.7	91.2	130.3	163.5	317.2	797.8	297.6	153.7	102.9	79.5
82.5°	45.6	46.2	73.6	92.5	117.9	206.5	122.4	89.9	59.3	48.2
85°	28.0	27.4	39.1	49.5	49.5	73.6	58.6	49.5	33.9	30.0
87.5°	11.1	11.1	14.3	15.6	13.7	18.9	15.0	16.3	13.0	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1242.7
1249.2
1259.0
1270.7
1281.8
1292.8
1310.4
1331.9
1356.7
1381.4
1409.4
1447.8
1502.5
1576.8
1670.6
1785.2
1919.4
2067.2
2224.8
2379.2
2541.4
2686.6
2832.5
2997.9
3188.8
3436.9
3662.3
3596.5
3103.4
1963.7
545.8
136.1
72.9
48.2
31.3
13.0
0.0

OF REPORT)