

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: P949366

Luminaire Tested: **GALN-SB4A-927-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949366
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-SB4A-927-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11460 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

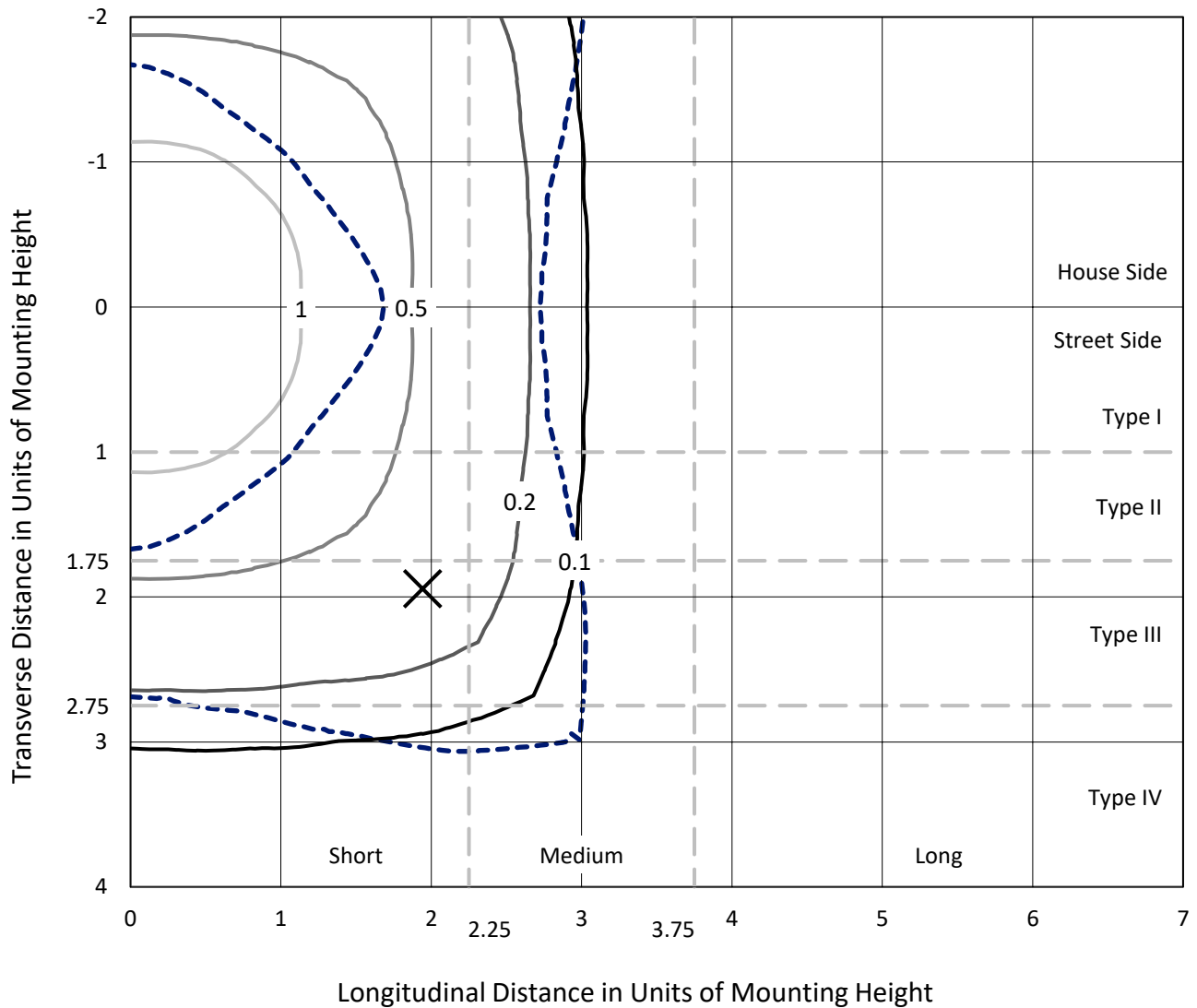
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

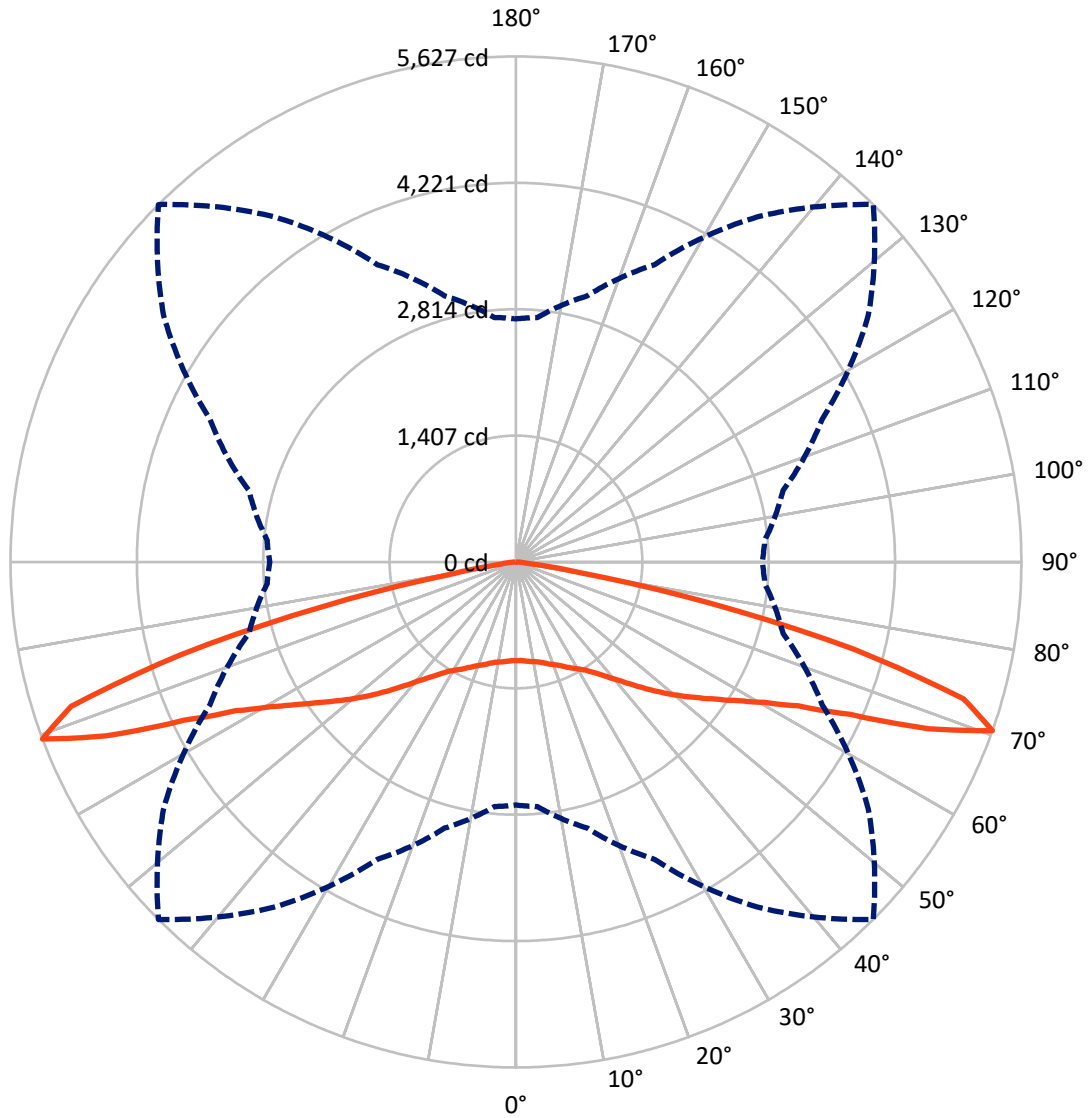
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5730.0	0.0	5730.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5730.0	0.0	5730.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11460.0	0.0	11460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	0.9
10°-20°	330.7	2.9
20°-30°	591.0	5.2
30°-40°	958.0	8.4
40°-50°	1560.4	13.6
50°-60°	2379.1	20.8
60°-70°	3539.4	30.9
70°-80°	1929.1	16.8
80°-90°	65.7	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°	11460.0	100.0
0°-180°	11460.0	100.0

Coefficient of Utilization



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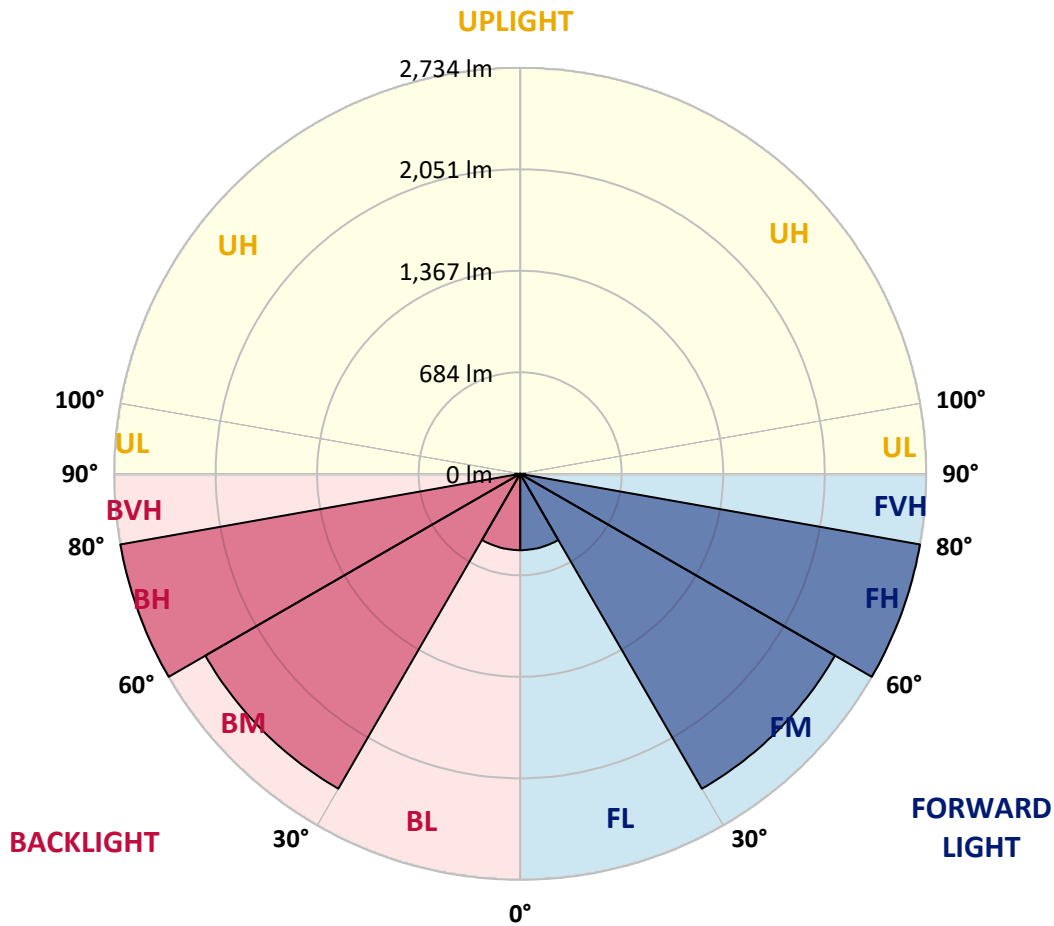
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.2	4.5			
FM (30°-60°)	2448.8	21.4			
FH (60°-80°)	2734.2	23.9			G2/5000
FVH (80°-90°)	32.8	0.3			G1/100
BL (0°-30°)	514.2	4.5	B2/1000		
BM (30°-60°)	2448.8	21.4	B2/2500		
BH (60°-80°)	2734.2	23.9	B4/5000		G2/5000
BVH (80°-90°)	32.8	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°	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1102.9	1104.1	1101.8	1100.6	1099.5	1097.7	1098.3	1101.2	1103.5	1102.9
5°	1112.1	1113.3	1111.6	1111.0	1108.7	1108.1	1108.1	1111.0	1112.7	1111.6
7.5°	1122.5	1124.2	1121.3	1120.8	1119.6	1118.5	1117.9	1120.8	1122.5	1122.5
10°	1132.3	1134.0	1131.7	1130.0	1128.8	1128.8	1127.7	1130.0	1132.8	1132.3
12.5°	1142.6	1143.8	1141.5	1140.3	1140.3	1142.1	1140.3	1141.5	1143.8	1142.6
15°	1155.3	1155.9	1155.3	1157.0	1159.9	1165.6	1160.5	1159.3	1160.5	1157.6
17.5°	1172.5	1173.7	1176.0	1180.0	1184.1	1194.4	1185.2	1182.3	1182.3	1176.6
20°	1193.8	1195.6	1199.0	1205.9	1211.1	1220.9	1211.7	1207.6	1205.9	1198.4
22.5°	1216.3	1219.1	1224.3	1233.5	1242.7	1251.9	1242.7	1235.8	1230.7	1220.9
25°	1242.2	1245.6	1253.7	1268.6	1281.3	1294.5	1283.6	1269.8	1259.4	1245.6
27.5°	1279.0	1283.0	1292.8	1311.2	1327.3	1338.8	1328.5	1310.6	1296.2	1279.6
30°	1330.8	1334.8	1346.3	1365.9	1376.8	1384.3	1377.4	1363.6	1346.3	1327.3
32.5°	1397.5	1402.7	1415.3	1433.7	1436.0	1437.2	1434.9	1428.0	1415.3	1392.3
35°	1482.1	1487.8	1502.2	1517.2	1514.9	1517.2	1513.7	1511.4	1502.2	1475.7
37.5°	1585.6	1592.5	1607.5	1619.0	1613.3	1610.4	1611.0	1611.5	1606.4	1577.0
40°	1705.9	1715.1	1726.0	1738.1	1728.3	1719.7	1725.4	1730.0	1725.4	1695.5
42.5°	1829.6	1842.8	1854.3	1871.6	1863.5	1852.6	1860.7	1865.8	1856.0	1823.8
45°	1967.1	1979.7	1994.7	2020.6	2014.8	2003.3	2014.8	2016.0	1999.3	1961.3
47.5°	2109.2	2122.4	2144.9	2179.4	2177.1	2164.4	2179.4	2171.3	2150.0	2104.6
50°	2243.8	2262.2	2296.8	2345.1	2349.7	2334.2	2354.3	2338.8	2303.1	2246.1
52.5°	2370.4	2390.0	2444.6	2510.2	2526.9	2506.8	2533.8	2506.8	2453.3	2380.2
55°	2503.3	2525.2	2590.2	2675.9	2709.3	2694.3	2719.6	2678.8	2602.8	2514.2
57.5°	2659.8	2673.0	2750.7	2852.5	2908.9	2912.4	2923.9	2854.8	2762.8	2662.1
60°	2829.5	2847.9	2932.5	3054.5	3143.7	3172.4	3160.3	3057.9	2950.9	2835.3
62.5°	3047.0	3067.1	3168.4	3314.5	3455.5	3526.8	3479.7	3331.2	3198.9	3060.2
65°	3227.1	3249.5	3432.5	3693.1	3949.7	4093.0	3974.5	3701.2	3463.0	3267.4
67.5°	3096.5	3124.1	3411.2	3889.9	4527.9	4955.4	4549.8	3948.6	3482.0	3216.7
70°	2706.4	2732.3	3067.1	3652.3	4690.7	5627.4	4788.6	3759.8	3078.1	2781.2
72.5°	1796.8	1880.2	2219.1	2921.0	4188.5	5207.4	4229.9	2861.7	2058.6	1792.8
75°	596.1	662.8	894.1	1514.3	2805.4	3894.5	2670.7	1340.0	708.2	509.8
77.5°	150.2	173.2	238.8	433.2	1119.0	2217.4	1007.4	353.8	192.7	134.6
80°	73.1	80.5	115.1	144.4	280.2	704.8	262.9	135.8	90.9	70.2
82.5°	40.3	40.8	65.0	81.7	104.1	182.4	108.2	79.4	52.4	42.6
85°	24.7	24.2	34.5	43.7	43.7	65.0	51.8	43.7	29.9	26.5
87.5°	9.8	9.8	12.7	13.8	12.1	16.7	13.2	14.4	11.5	10.9
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>
1097.7
1103.5
1112.1
1122.5
1132.3
1142.1
1157.6
1176.6
1198.4
1220.3
1245.0
1279.0
1327.3
1392.9
1475.7
1577.0
1695.5
1826.1
1965.4
2101.7
2245.0
2373.3
2502.2
2648.3
2816.9
3036.1
3235.1
3177.0
2741.5
1734.7
482.1
120.2
64.4
42.6
27.6
11.5
0.0

OF REPORT)