

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: P946636

Luminaire Tested: **GALN-SB2B-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946636
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-SB2B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10939 lumens
Efficiency: N/A
Efficacy: 148.0 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): 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

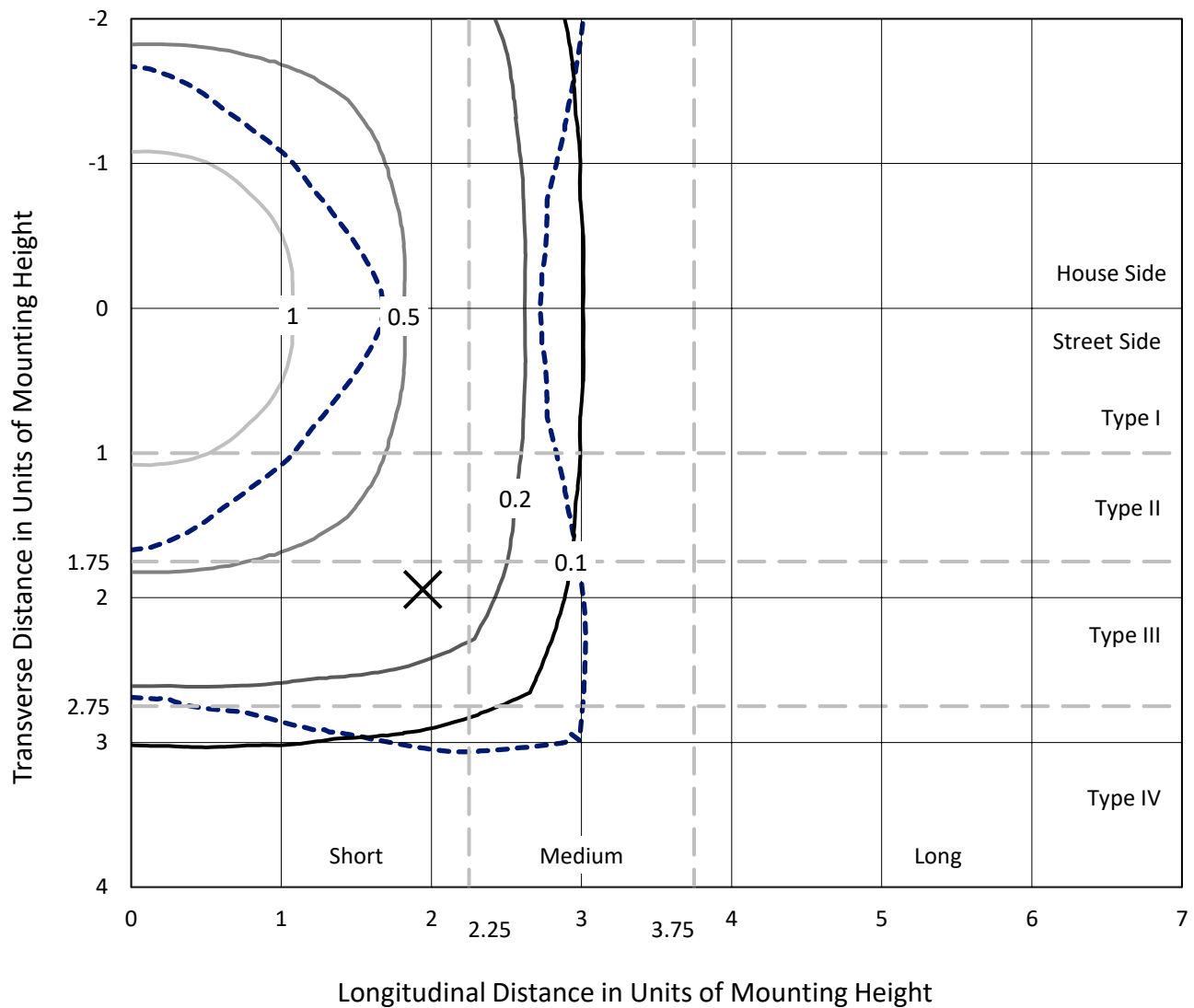


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

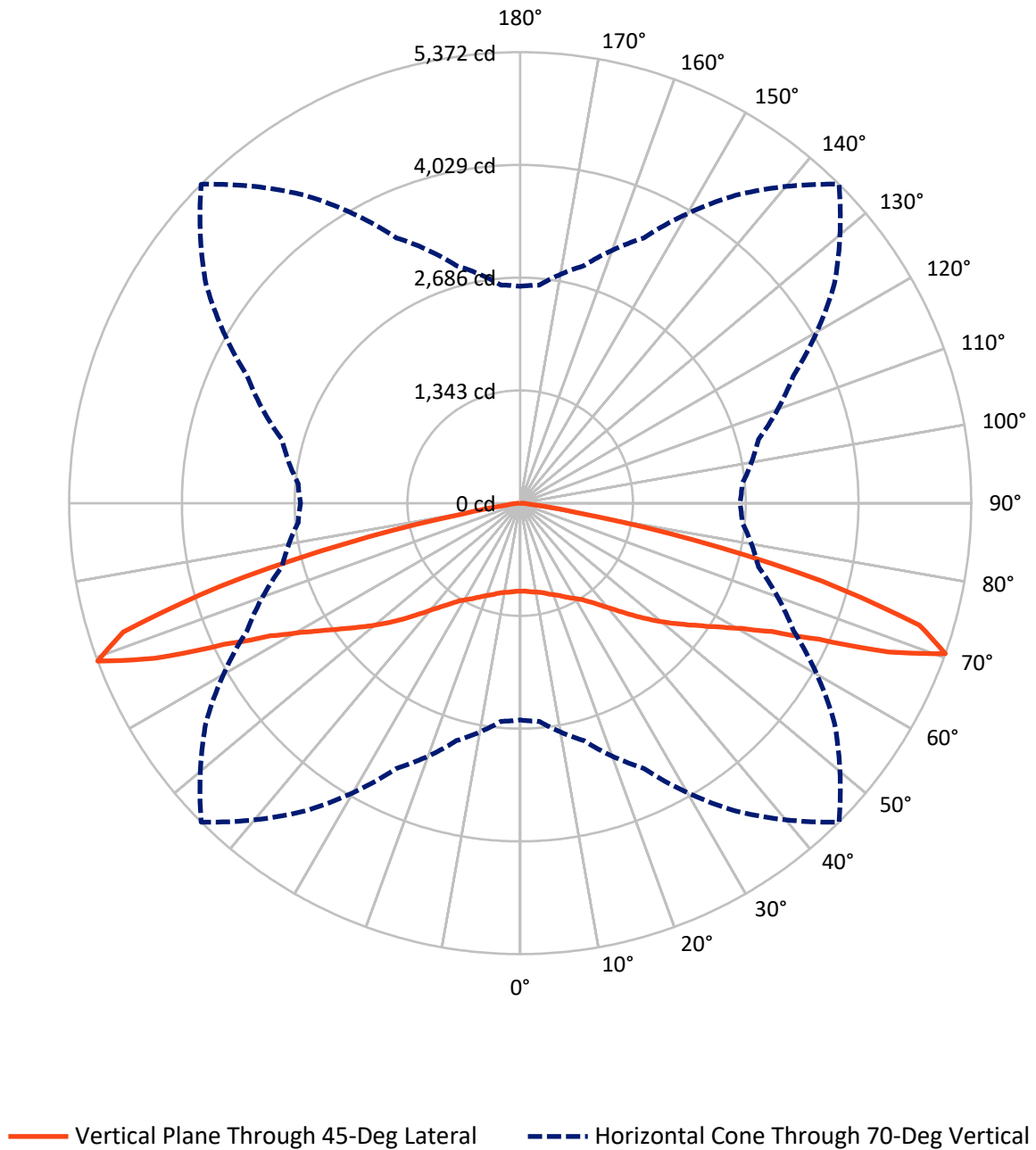


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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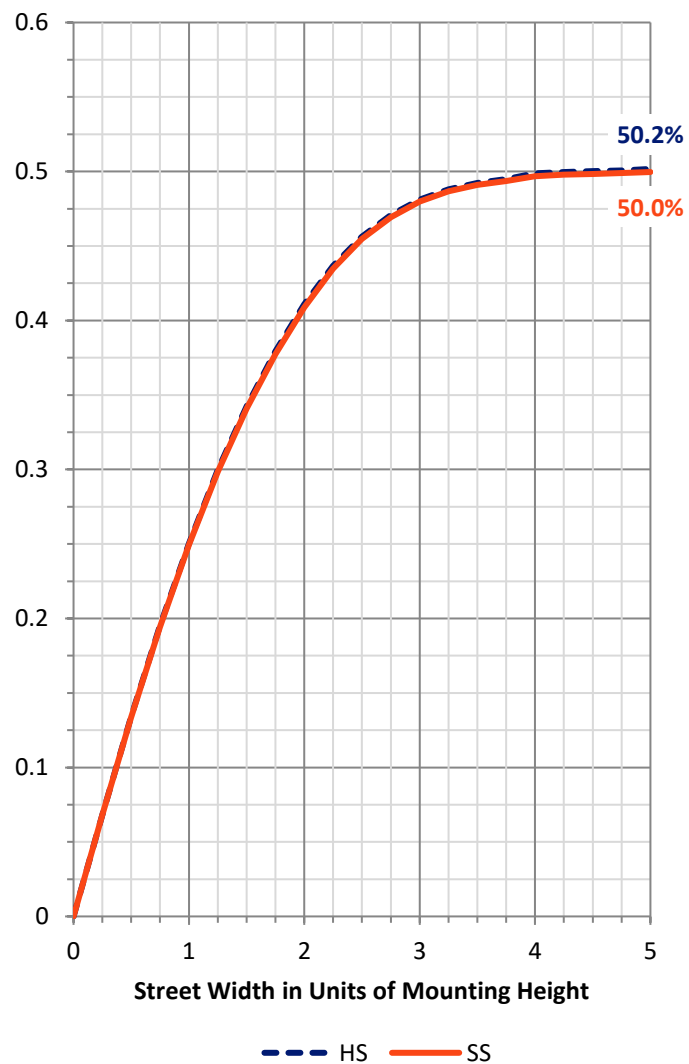
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5469.5	0.0	5469.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5469.5	0.0	5469.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10939.0	0.0	10939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	0.9
10°-20°	315.7	2.9
20°-30°	564.1	5.2
30°-40°	914.4	8.4
40°-50°	1489.5	13.6
50°-60°	2271.0	20.8
60°-70°	3378.5	30.9
70°-80°	1841.4	16.8
80°-90°	62.7	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°	10939.0	100.0
0°-180°	10939.0	100.0

Coefficient of Utilization



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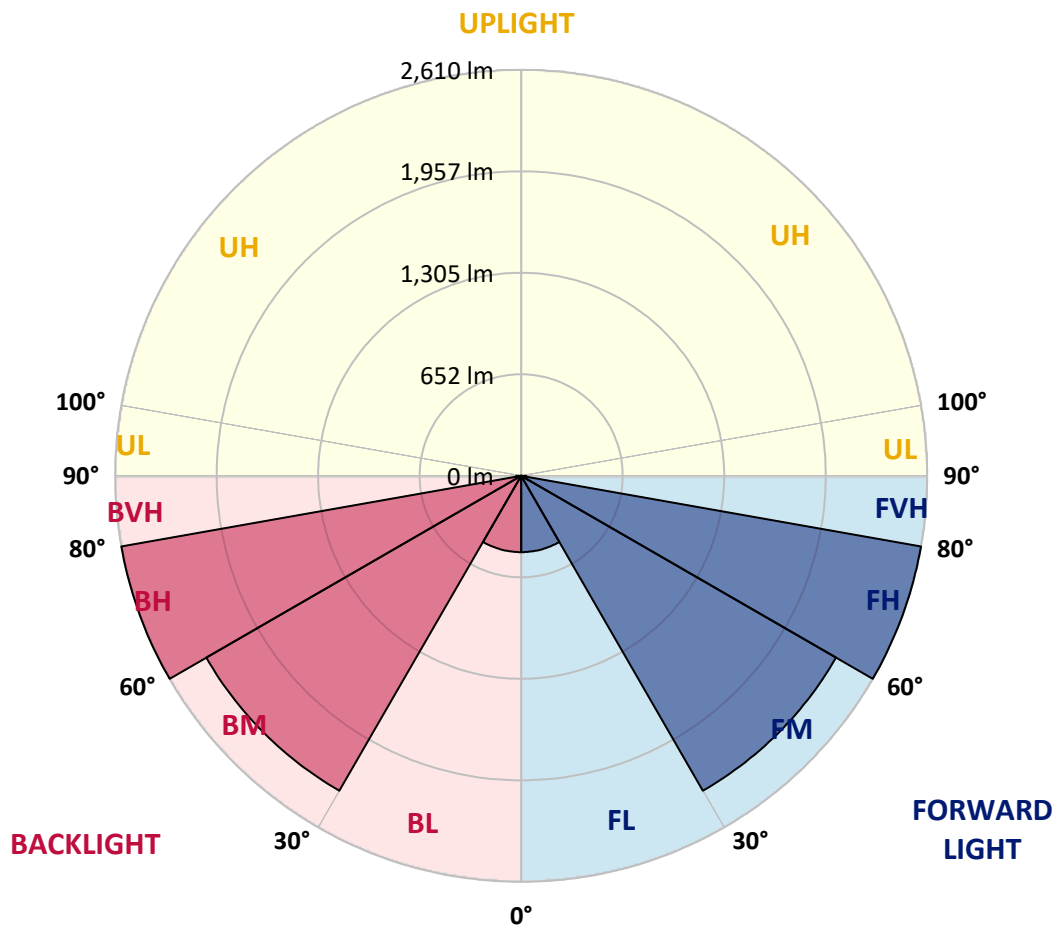
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.8	4.5			
FM	(30°-60°)	2337.4	21.4			
FH	(60°-80°)	2609.9	23.9			G2/5000
FVH	(80°-90°)	31.4	0.3			G1/100
BL	(0°-30°)	490.8	4.5	B1/500		
BM	(30°-60°)	2337.4	21.4	B2/2500		
BH	(60°-80°)	2609.9	23.9	B4/5000		G2/5000
BVH	(80°-90°)	31.4	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°	90°
0°	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8	1047.8
2.5°	1052.8	1053.9	1051.7	1050.6	1049.5	1047.8	1048.4	1051.1	1053.3	1052.8	1053.3
5°	1061.6	1062.7	1061.0	1060.5	1058.3	1057.7	1057.7	1060.5	1062.1	1061.0	1061.6
7.5°	1071.5	1073.1	1070.4	1069.8	1068.7	1067.6	1067.1	1069.8	1071.5	1071.5	1071.5
10°	1080.8	1082.4	1080.2	1078.6	1077.5	1077.5	1076.4	1078.6	1081.3	1080.8	1080.8
12.5°	1090.7	1091.8	1089.6	1088.5	1088.5	1090.1	1088.5	1089.6	1091.8	1090.7	1090.1
15°	1102.8	1103.3	1102.8	1104.4	1107.2	1112.6	1107.7	1106.6	1107.7	1105.0	1105.0
17.5°	1119.2	1120.3	1122.5	1126.4	1130.2	1140.1	1131.3	1128.6	1128.6	1123.1	1123.1
20°	1139.6	1141.2	1144.5	1151.1	1156.0	1165.4	1156.6	1152.7	1151.1	1144.0	1144.0
22.5°	1161.0	1163.7	1168.7	1177.5	1186.2	1195.0	1186.2	1179.6	1174.7	1165.4	1164.8
25°	1185.7	1189.0	1196.7	1211.0	1223.0	1235.7	1225.2	1212.0	1202.2	1189.0	1188.4
27.5°	1220.8	1224.7	1234.0	1251.6	1267.0	1278.0	1268.1	1251.0	1237.3	1221.4	1220.8
30°	1270.3	1274.1	1285.1	1303.8	1314.2	1321.3	1314.7	1301.6	1285.1	1267.0	1267.0
32.5°	1334.0	1338.9	1351.0	1368.6	1370.8	1371.9	1369.7	1363.1	1351.0	1329.0	1329.6
35°	1414.7	1420.2	1433.9	1448.2	1446.0	1448.2	1444.9	1442.7	1433.9	1408.7	1408.7
37.5°	1513.6	1520.1	1534.4	1545.4	1539.9	1537.2	1537.7	1538.3	1533.3	1505.3	1505.3
40°	1628.3	1637.1	1647.6	1659.1	1649.7	1641.5	1647.0	1651.4	1647.0	1618.4	1618.4
42.5°	1746.4	1759.0	1770.0	1786.5	1778.8	1768.4	1776.1	1781.0	1771.7	1740.9	1743.1
45°	1877.7	1889.7	1904.0	1928.7	1923.2	1912.3	1923.2	1924.3	1908.4	1872.2	1876.0
47.5°	2013.3	2025.9	2047.4	2080.3	2078.1	2066.0	2080.3	2072.6	2052.3	2008.9	2006.2
50°	2141.8	2159.4	2192.3	2238.5	2242.9	2228.0	2247.3	2232.4	2198.4	2144.0	2142.9
52.5°	2262.6	2281.3	2333.5	2396.1	2412.0	2392.8	2418.6	2392.8	2341.7	2272.0	2265.4
55°	2389.5	2410.4	2472.4	2554.3	2586.1	2571.8	2596.0	2557.0	2484.5	2399.9	2388.4
57.5°	2538.9	2551.5	2625.6	2722.9	2776.7	2780.0	2791.0	2725.1	2637.2	2541.1	2527.9
60°	2700.9	2718.5	2799.2	2915.6	3000.7	3028.2	3016.7	2918.9	2816.8	2706.4	2688.8
62.5°	2908.5	2927.7	3024.4	3163.8	3298.4	3366.5	3321.5	3179.8	3053.5	2921.1	2898.0
65°	3080.4	3101.8	3276.4	3525.2	3770.1	3906.9	3793.8	3532.9	3305.5	3118.8	3088.1
67.5°	2955.7	2982.1	3256.1	3713.0	4322.1	4730.1	4342.9	3769.0	3323.7	3070.5	3032.6
70°	2583.4	2608.1	2927.7	3486.2	4477.5	5371.6	4570.9	3588.9	2938.1	2654.8	2616.9
72.5°	1715.1	1794.7	2118.2	2788.2	3998.1	4970.7	4037.6	2731.6	1965.0	1711.3	1655.8
75°	569.0	632.7	853.4	1445.5	2677.8	3717.4	2549.3	1279.0	676.0	486.6	460.2
77.5°	143.3	165.3	227.9	413.5	1068.2	2116.6	961.6	337.7	184.0	128.5	114.8
80°	69.7	76.9	109.8	137.8	267.5	672.8	251.0	129.6	86.8	67.0	61.5
82.5°	38.4	39.0	62.1	78.0	99.4	174.1	103.2	75.8	50.0	40.6	40.6
85°	23.6	23.1	33.0	41.7	41.7	62.1	49.4	41.7	28.6	25.3	26.4
87.5°	9.3	9.3	12.1	13.2	11.5	15.9	12.6	13.7	11.0	10.4	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)