

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: P945922

Luminaire Tested: **GALN-SB1D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945922
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-SB1D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9888 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

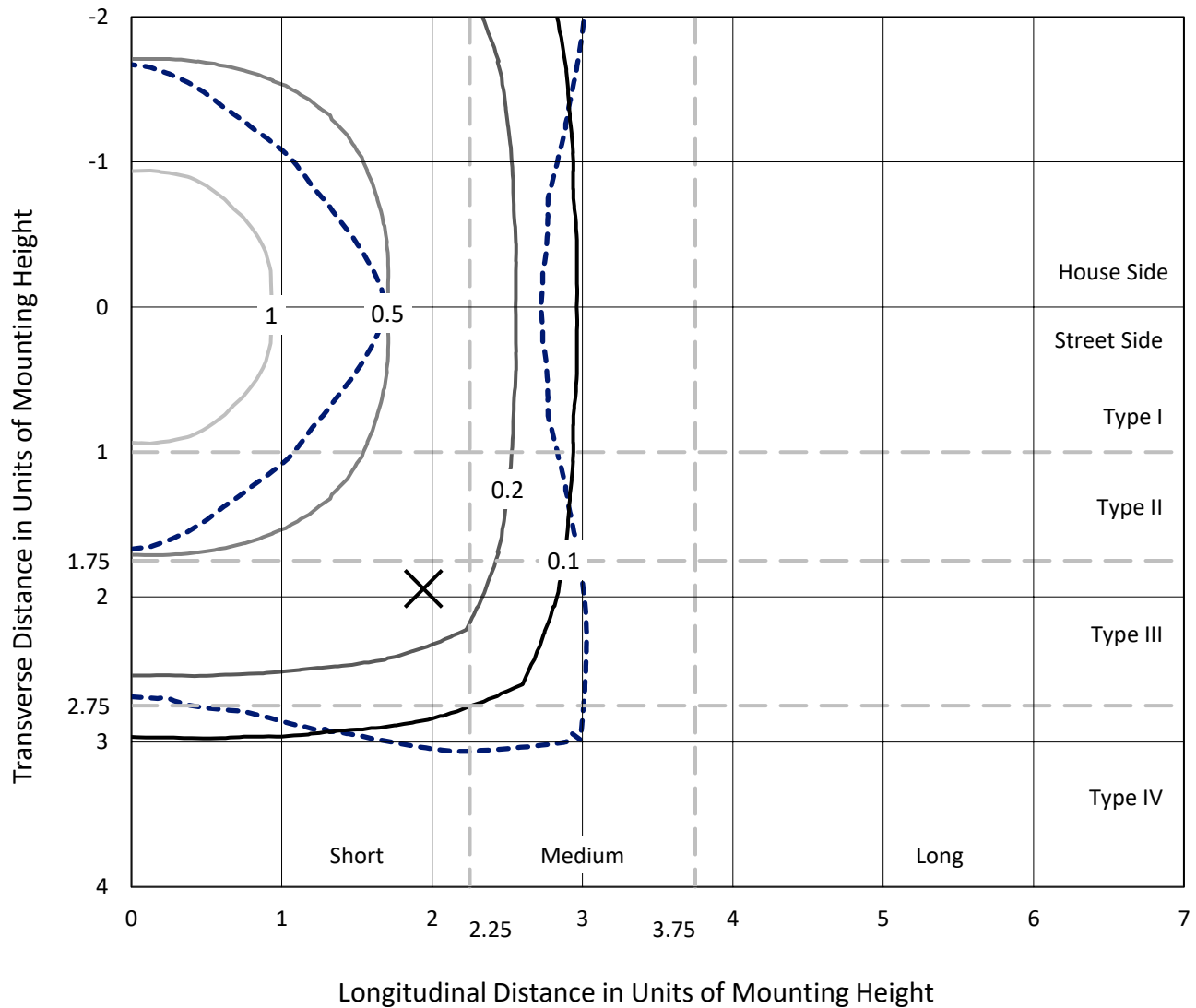


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

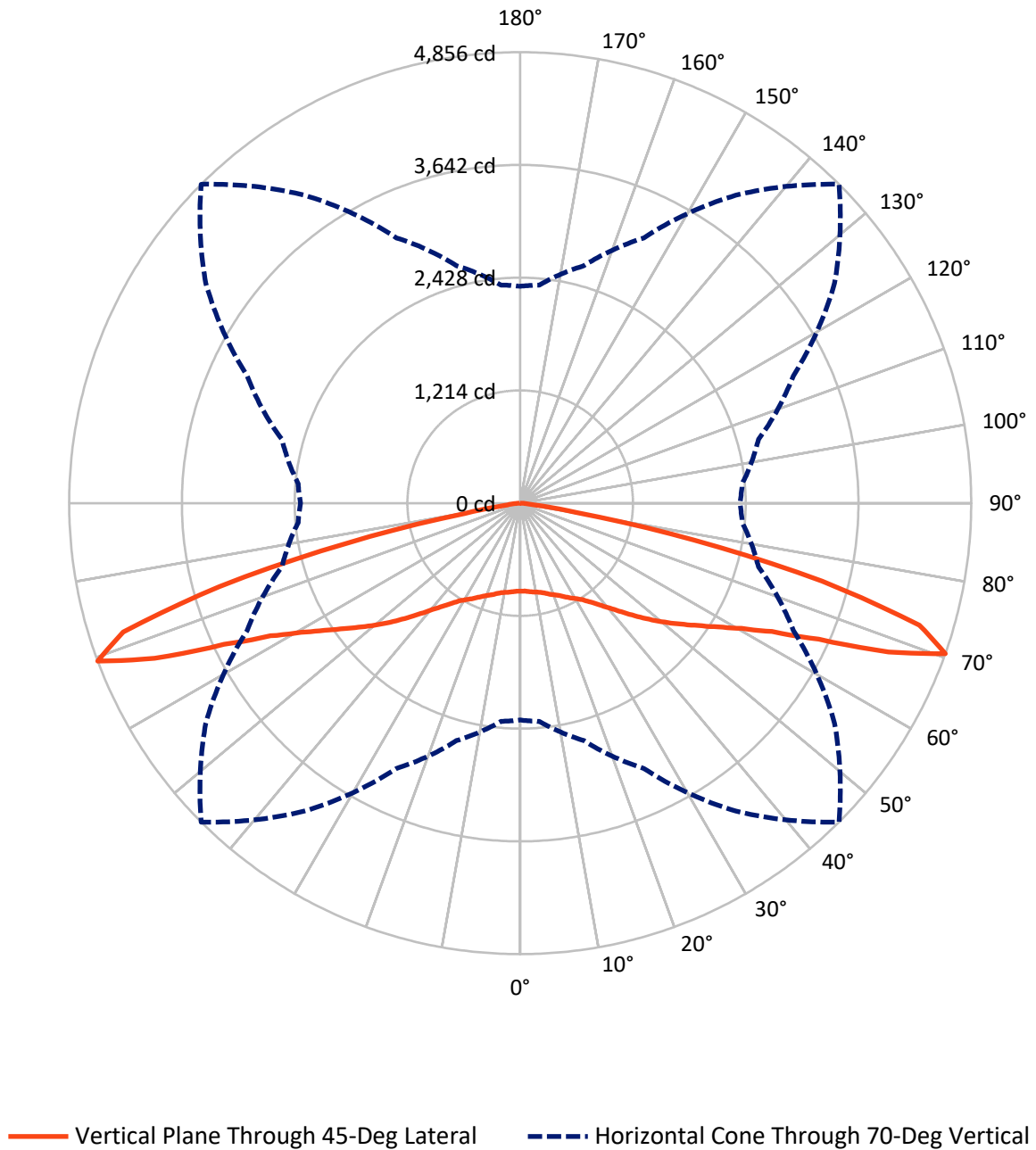


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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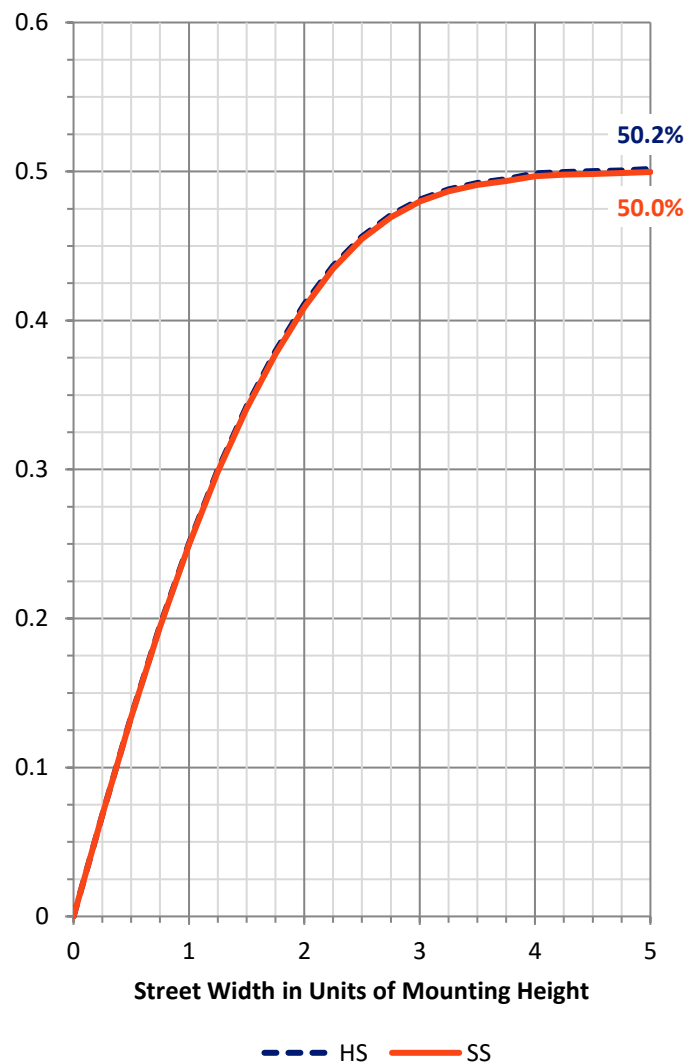
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4944.0	0.0	4944.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4944.0	0.0	4944.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9888.0	0.0	9888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	0.9
10°-20°	285.3	2.9
20°-30°	509.9	5.2
30°-40°	826.6	8.4
40°-50°	1346.4	13.6
50°-60°	2052.8	20.8
60°-70°	3053.9	30.9
70°-80°	1664.5	16.8
80°-90°	56.7	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°	9888.0	100.0
0°-180°	9888.0	100.0

Coefficient of Utilization



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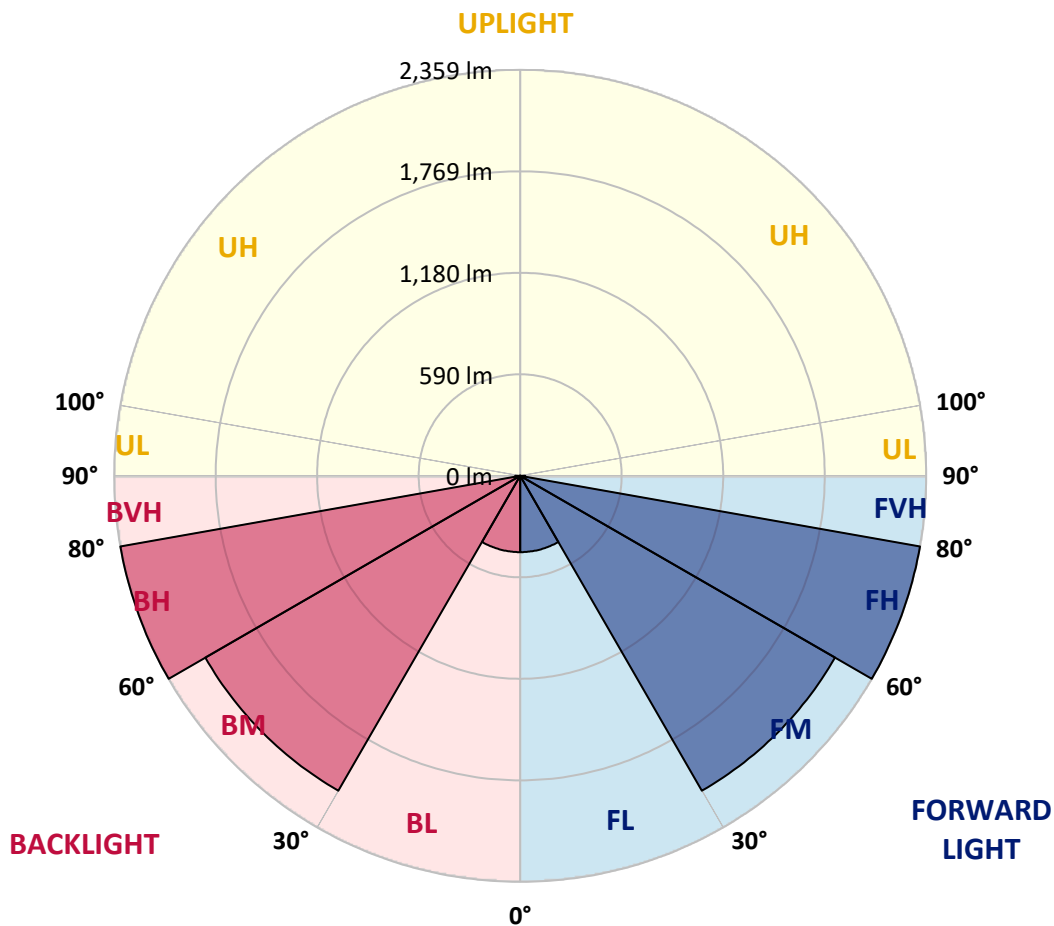
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.6	4.5			
FM	(30°-60°)	2112.9	21.4			
FH	(60°-80°)	2359.2	23.9			G2/5000
FVH	(80°-90°)	28.3	0.3			G1/100
BL	(0°-30°)	443.6	4.5	B1/500		
BM	(30°-60°)	2112.9	21.4	B2/2500		
BH	(60°-80°)	2359.2	23.9	B3/2500		G2/5000
BVH	(80°-90°)	28.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2
2.5°	951.6	952.6	950.6	949.7	948.7	947.2	947.7	950.1	952.1	951.6	952.1
5°	959.6	960.6	959.1	958.6	956.6	956.1	956.1	958.6	960.1	959.1	959.6
7.5°	968.5	970.0	967.5	967.0	966.0	965.0	964.5	967.0	968.5	968.5	968.5
10°	977.0	978.4	976.5	975.0	974.0	974.0	973.0	975.0	977.4	977.0	977.0
12.5°	985.9	986.9	984.9	983.9	983.9	985.4	983.9	984.9	986.9	985.9	985.4
15°	996.8	997.3	996.8	998.3	1000.8	1005.7	1001.3	1000.3	1001.3	998.8	998.8
17.5°	1011.7	1012.7	1014.7	1018.2	1021.6	1030.6	1022.6	1020.1	1020.1	1015.2	1015.2
20°	1030.1	1031.6	1034.5	1040.5	1045.0	1053.4	1045.5	1042.0	1040.5	1034.0	1034.0
22.5°	1049.4	1051.9	1056.4	1064.3	1072.3	1080.2	1072.3	1066.3	1061.8	1053.4	1052.9
25°	1071.8	1074.7	1081.7	1094.6	1105.5	1116.9	1107.5	1095.6	1086.7	1074.7	1074.3
27.5°	1103.5	1107.0	1115.5	1131.3	1145.2	1155.2	1146.2	1130.8	1118.4	1104.0	1103.5
30°	1148.2	1151.7	1161.6	1178.5	1187.9	1194.4	1188.4	1176.5	1161.6	1145.2	1145.2
32.5°	1205.8	1210.3	1221.2	1237.1	1239.1	1240.1	1238.1	1232.1	1221.2	1201.3	1201.8
35°	1278.8	1283.7	1296.2	1309.1	1307.1	1309.1	1306.1	1304.1	1296.2	1273.3	1273.3
37.5°	1368.1	1374.1	1387.0	1396.9	1392.0	1389.5	1390.0	1390.5	1386.0	1360.7	1360.7
40°	1471.9	1479.8	1489.3	1499.7	1491.2	1483.8	1488.8	1492.7	1488.8	1462.9	1462.9
42.5°	1578.6	1590.0	1600.0	1614.9	1607.9	1598.5	1605.4	1609.9	1601.4	1573.6	1575.6
45°	1697.3	1708.2	1721.1	1743.4	1738.5	1728.5	1738.5	1739.5	1725.1	1692.3	1695.8
47.5°	1819.9	1831.3	1850.7	1880.4	1878.5	1867.5	1880.4	1873.5	1855.1	1815.9	1813.4
50°	1936.0	1951.9	1981.7	2023.4	2027.4	2014.0	2031.3	2017.9	1987.2	1938.0	1937.0
52.5°	2045.2	2062.1	2109.3	2165.9	2180.3	2162.9	2186.2	2162.9	2116.7	2053.7	2047.7
55°	2159.9	2178.8	2234.9	2308.8	2337.6	2324.7	2346.6	2311.3	2245.8	2169.4	2158.9
57.5°	2294.9	2306.4	2373.4	2461.2	2509.9	2512.9	2522.8	2463.2	2383.8	2296.9	2285.0
60°	2441.4	2457.3	2530.2	2635.5	2712.4	2737.3	2726.8	2638.5	2546.1	2446.4	2430.5
62.5°	2629.0	2646.4	2733.8	2859.9	2981.5	3043.1	3002.3	2874.3	2760.1	2640.5	2619.6
65°	2784.4	2803.8	2961.6	3186.5	3407.9	3531.5	3429.3	3193.5	2987.9	2819.2	2791.4
67.5°	2671.7	2695.6	2943.3	3356.3	3906.8	4275.7	3925.7	3406.9	3004.3	2775.5	2741.2
70°	2335.2	2357.5	2646.4	3151.3	4047.3	4855.5	4131.7	3244.1	2655.8	2399.7	2365.4
72.5°	1550.3	1622.3	1914.7	2520.3	3613.9	4493.1	3649.7	2469.2	1776.2	1546.8	1496.7
75°	514.3	571.9	771.4	1306.6	2420.5	3360.3	2304.4	1156.2	611.1	439.8	416.0
77.5°	129.6	149.4	206.0	373.8	965.5	1913.2	869.2	305.3	166.3	116.2	103.8
80°	63.0	69.5	99.3	124.6	241.8	608.1	226.9	117.2	78.4	60.6	55.6
82.5°	34.7	35.2	56.1	70.5	89.9	157.4	93.3	68.5	45.2	36.7	36.7
85°	21.3	20.8	29.8	37.7	37.7	56.1	44.7	37.7	25.8	22.8	23.8
87.5°	8.4	8.4	10.9	11.9	10.4	14.4	11.4	12.4	9.9	9.4	9.9
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)