

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: P945985

Luminaire Tested: **GALN-SB1D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945985
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11278 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

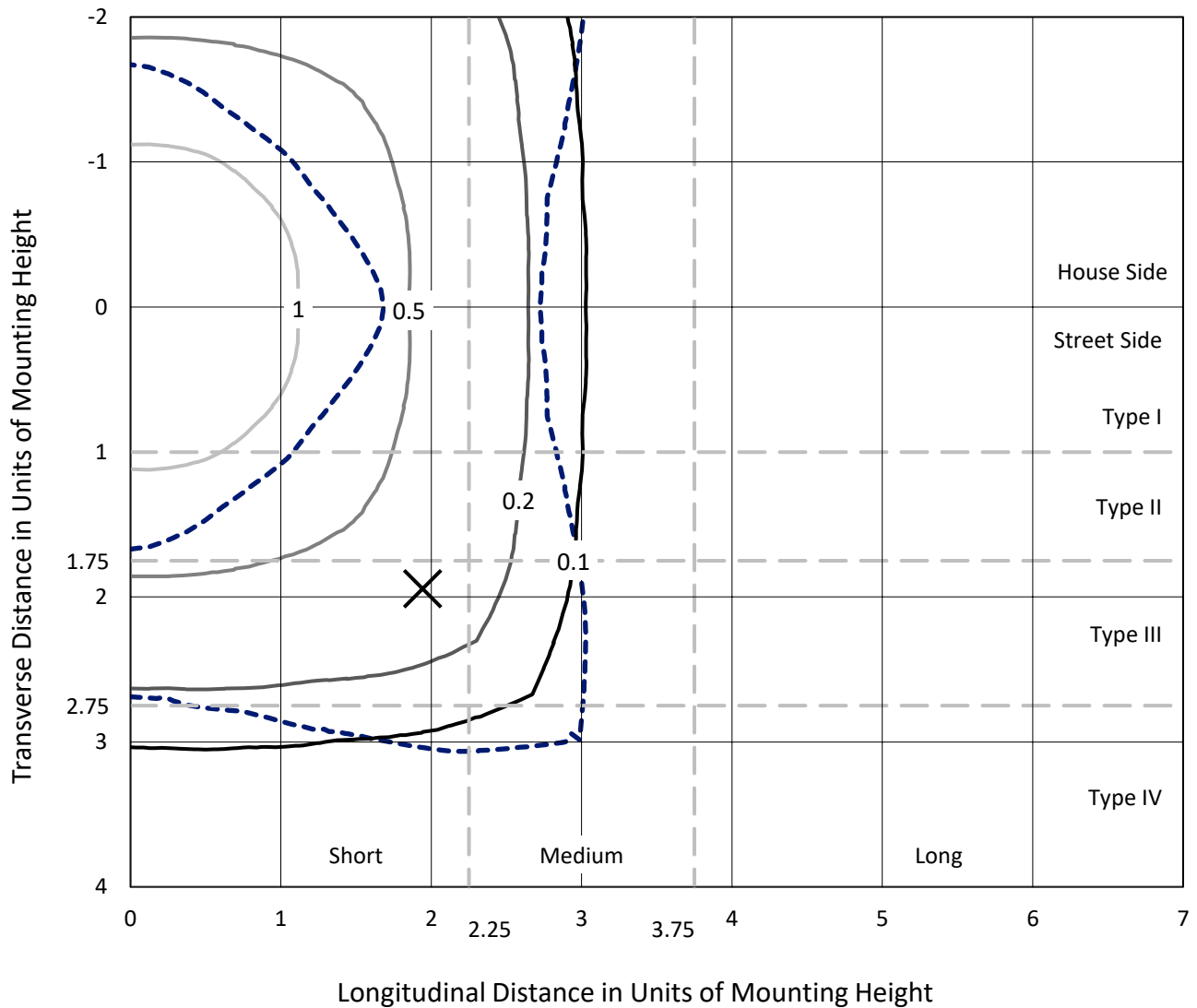
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

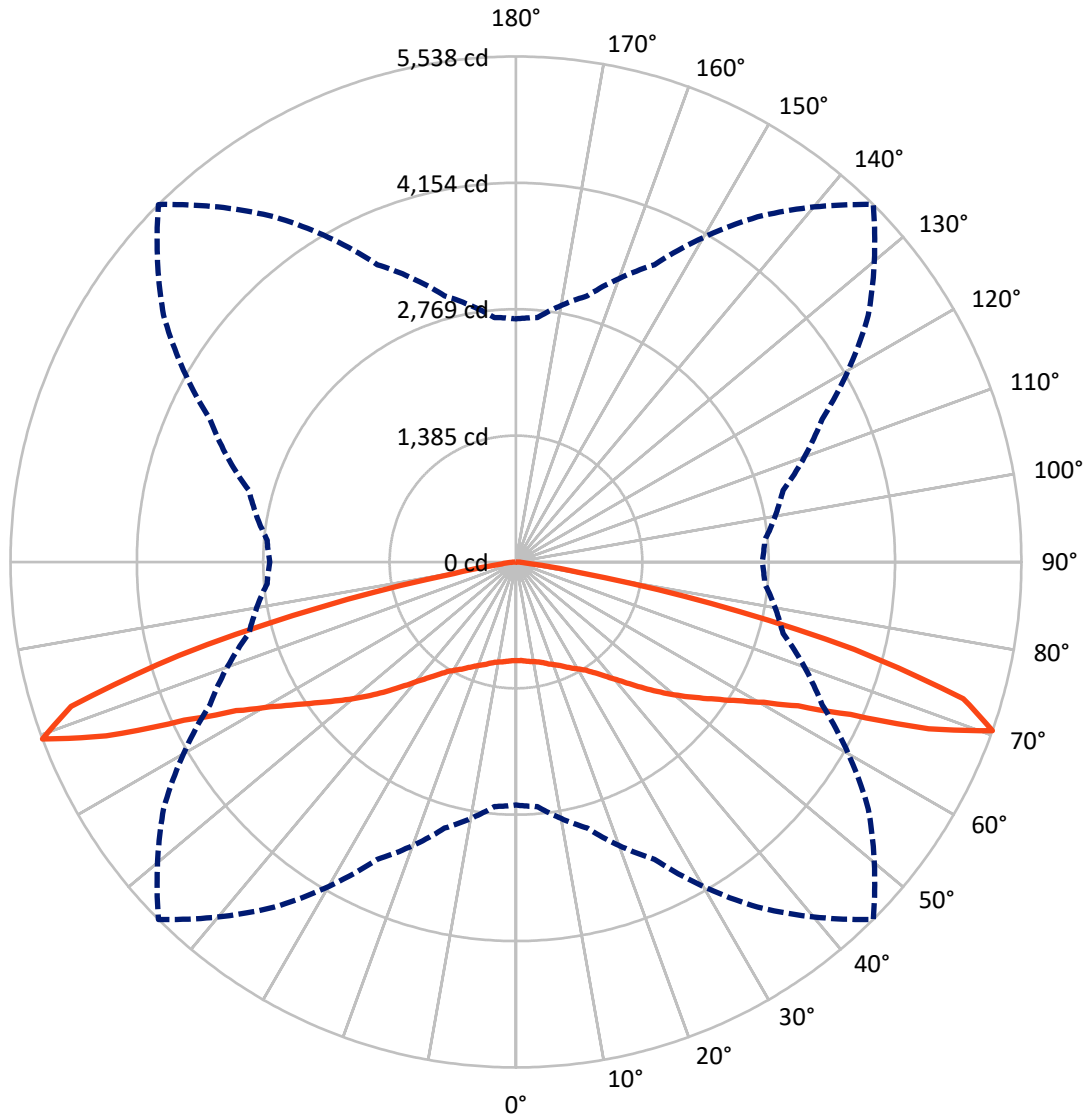
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	5639.0	0.0	5639.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5639.0	0.0	5639.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11278.0	0.0	11278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	0.9
10°-20°	325.4	2.9
20°-30°	581.6	5.2
30°-40°	942.8	8.4
40°-50°	1535.6	13.6
50°-60°	2341.3	20.8
60°-70°	3483.2	30.9
70°-80°	1898.4	16.8
80°-90°	64.6	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°	11278.0	100.0
0°-180°	11278.0	100.0



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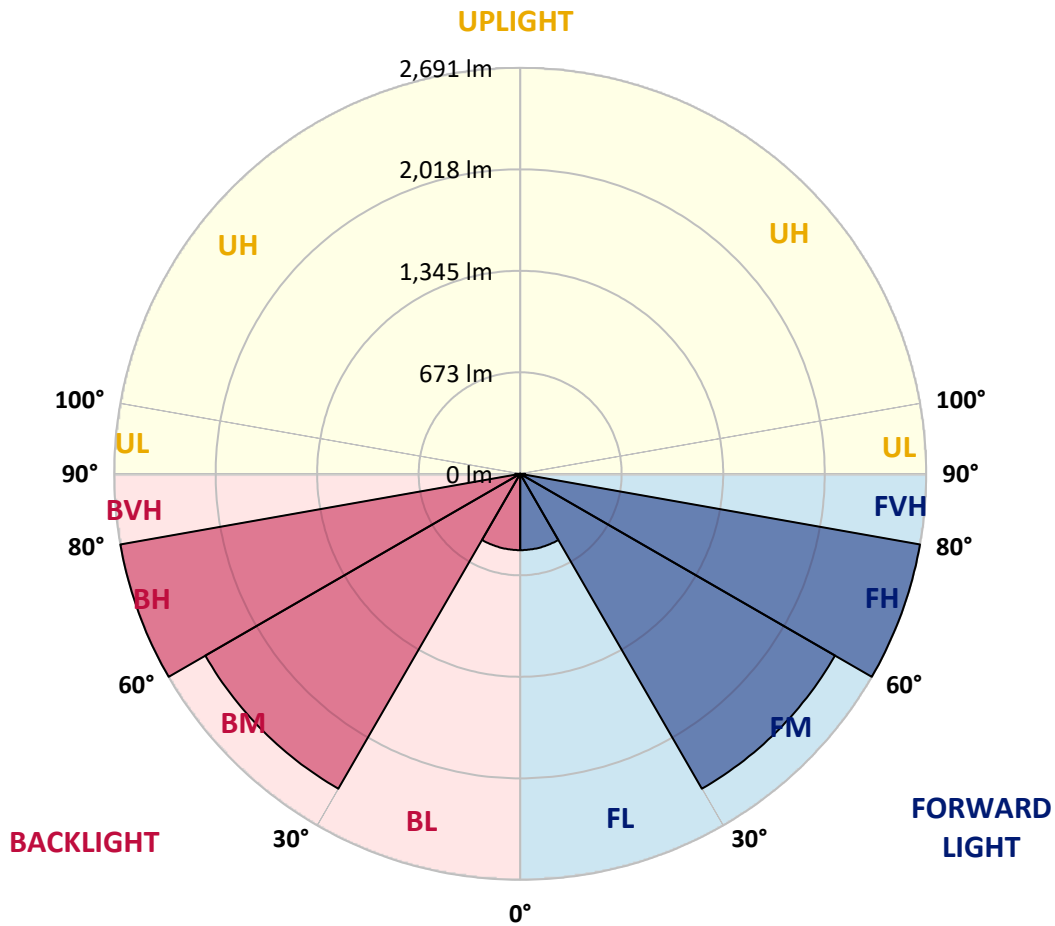
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.0	4.5			
FM (30°-60°)	2409.9	21.4			
FH (60°-80°)	2690.8	23.9			G2/5000
FVH (80°-90°)	32.3	0.3			G1/100
BL (0°-30°)	506.0	4.5	B2/1000		
BM (30°-60°)	2409.9	21.4	B2/2500		
BH (60°-80°)	2690.8	23.9	B4/5000		G2/5000
BVH (80°-90°)	32.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3
2.5°	1085.4	1086.5	1084.3	1083.1	1082.0	1080.3	1080.9	1083.7	1086.0	1085.4
5°	1094.5	1095.6	1093.9	1093.3	1091.1	1090.5	1090.5	1093.3	1095.0	1093.9
7.5°	1104.7	1106.4	1103.5	1103.0	1101.8	1100.7	1100.1	1103.0	1104.7	1104.7
10°	1114.3	1116.0	1113.7	1112.0	1110.9	1110.9	1109.8	1112.0	1114.9	1114.3
12.5°	1124.5	1125.6	1123.3	1122.2	1122.2	1123.9	1122.2	1123.3	1125.6	1124.5
15°	1136.9	1137.5	1136.9	1138.6	1141.5	1147.1	1142.0	1140.9	1142.0	1139.2
17.5°	1153.9	1155.1	1157.3	1161.3	1165.2	1175.4	1166.4	1163.5	1163.5	1157.9
20°	1174.9	1176.6	1180.0	1186.8	1191.9	1201.5	1192.4	1188.5	1186.8	1179.4
22.5°	1197.0	1199.8	1204.9	1213.9	1223.0	1232.1	1223.0	1216.2	1211.1	1201.5
25°	1222.4	1225.8	1233.8	1248.5	1260.9	1274.0	1263.2	1249.6	1239.4	1225.8
27.5°	1258.7	1262.6	1272.3	1290.4	1306.2	1317.6	1307.4	1289.8	1275.7	1259.2
30°	1309.6	1313.6	1324.9	1344.2	1354.9	1362.3	1355.5	1341.9	1324.9	1306.2
32.5°	1375.3	1380.4	1392.9	1411.0	1413.2	1414.4	1412.1	1405.3	1392.9	1370.2
35°	1458.5	1464.2	1478.4	1493.1	1490.8	1493.1	1489.7	1487.4	1478.4	1452.3
37.5°	1560.5	1567.3	1582.0	1593.3	1587.6	1584.8	1585.4	1585.9	1580.8	1552.0
40°	1678.8	1687.9	1698.6	1710.5	1700.9	1692.4	1698.0	1702.6	1698.0	1668.6
42.5°	1800.5	1813.5	1824.9	1841.9	1833.9	1823.2	1831.1	1836.2	1826.6	1794.9
45°	1935.8	1948.3	1963.0	1988.5	1982.8	1971.5	1982.8	1984.0	1967.6	1930.2
47.5°	2075.7	2088.7	2110.8	2144.8	2142.5	2130.1	2144.8	2136.9	2115.9	2071.2
50°	2208.2	2226.3	2260.3	2307.8	2312.4	2297.1	2316.9	2301.6	2266.5	2210.5
52.5°	2332.8	2352.0	2405.8	2470.3	2486.8	2466.9	2493.6	2466.9	2414.3	2342.4
55°	2463.6	2485.1	2549.0	2633.4	2666.3	2651.5	2676.4	2636.2	2561.5	2474.3
57.5°	2617.6	2630.6	2707.0	2807.2	2862.7	2866.1	2877.4	2809.5	2718.9	2619.8
60°	2784.6	2802.7	2885.9	3006.0	3093.7	3122.0	3110.2	3009.4	2904.1	2790.2
62.5°	2998.6	3018.4	3118.1	3261.9	3400.6	3470.8	3424.4	3278.3	3148.1	3011.6
65°	3175.8	3197.9	3378.0	3634.5	3887.0	4028.0	3911.3	3642.4	3408.0	3215.5
67.5°	3047.3	3074.5	3357.0	3828.1	4456.0	4876.7	4477.5	3885.9	3426.7	3165.6
70°	2663.4	2688.9	3018.4	3594.3	4616.3	5538.0	4712.5	3700.1	3029.2	2737.0
72.5°	1768.3	1850.4	2183.8	2874.6	4122.0	5124.7	4162.7	2816.3	2025.9	1764.3
75°	586.6	652.3	879.9	1490.2	2760.8	3832.6	2628.3	1318.7	697.0	501.7
77.5°	147.8	170.4	235.0	426.4	1101.3	2182.1	991.4	348.2	189.7	132.5
80°	71.9	79.3	113.2	142.1	275.7	693.6	258.8	133.6	89.5	69.1
82.5°	39.6	40.2	64.0	80.4	102.5	179.5	106.4	78.1	51.5	41.9
85°	24.3	23.8	34.0	43.0	43.0	64.0	51.0	43.0	29.4	26.0
87.5°	9.6	9.6	12.5	13.6	11.9	16.4	13.0	14.2	11.3	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1080.3
1086.0
1094.5
1104.7
1114.3
1123.9
1139.2
1157.9
1179.4
1200.9
1225.3
1258.7
1306.2
1370.8
1452.3
1552.0
1668.6
1797.1
1934.2
2068.3
2209.3
2335.6
2462.4
2606.2
2772.1
2987.9
3183.8
3126.6
2698.0
1707.1
474.5
118.3
63.4
41.9
27.2
11.3
0.0

OF REPORT)