

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: P946069

Luminaire Tested: **GALN-SB1D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946069
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-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9579 lumens
Efficiency: N/A
Efficacy: 120.3 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

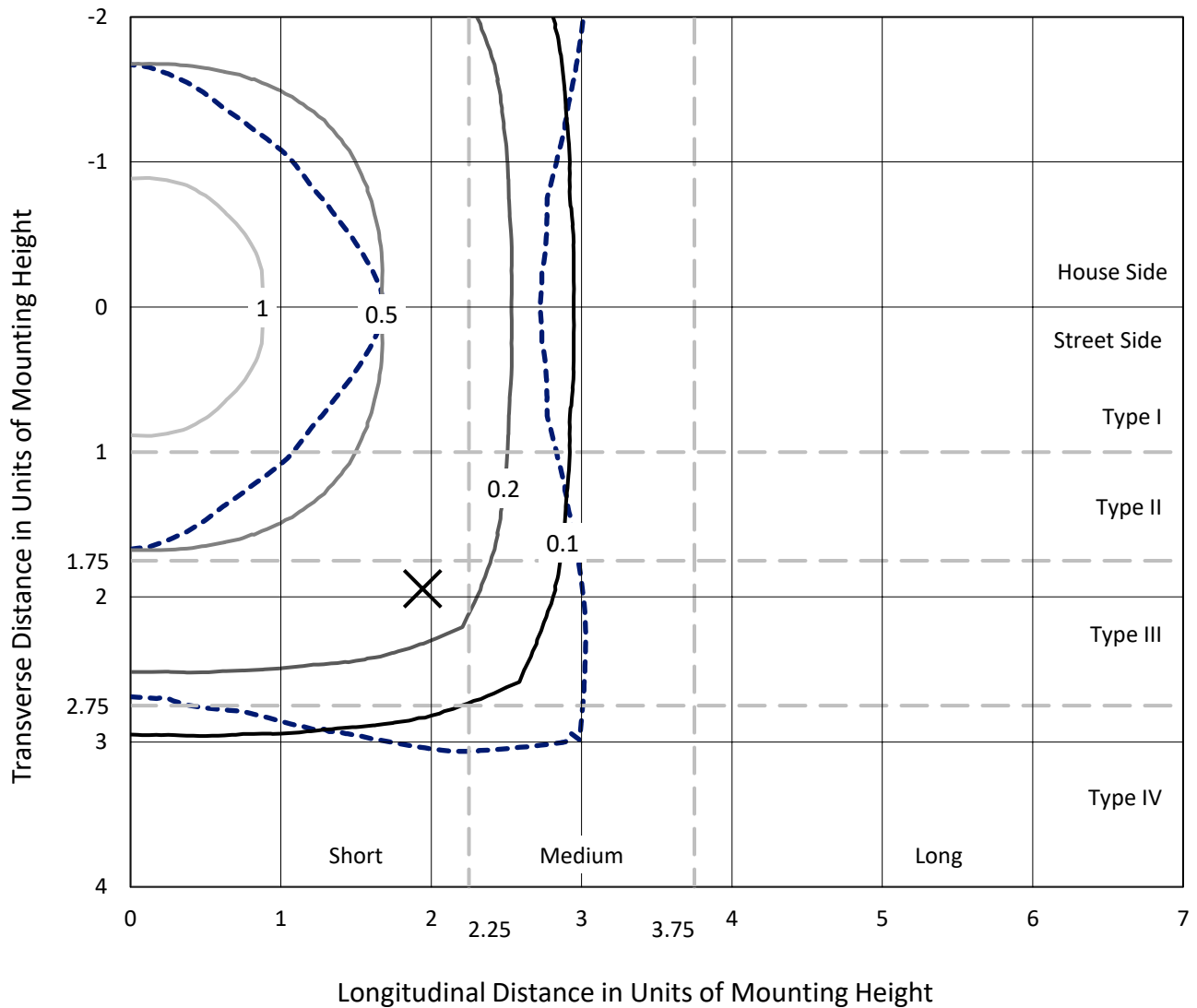
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

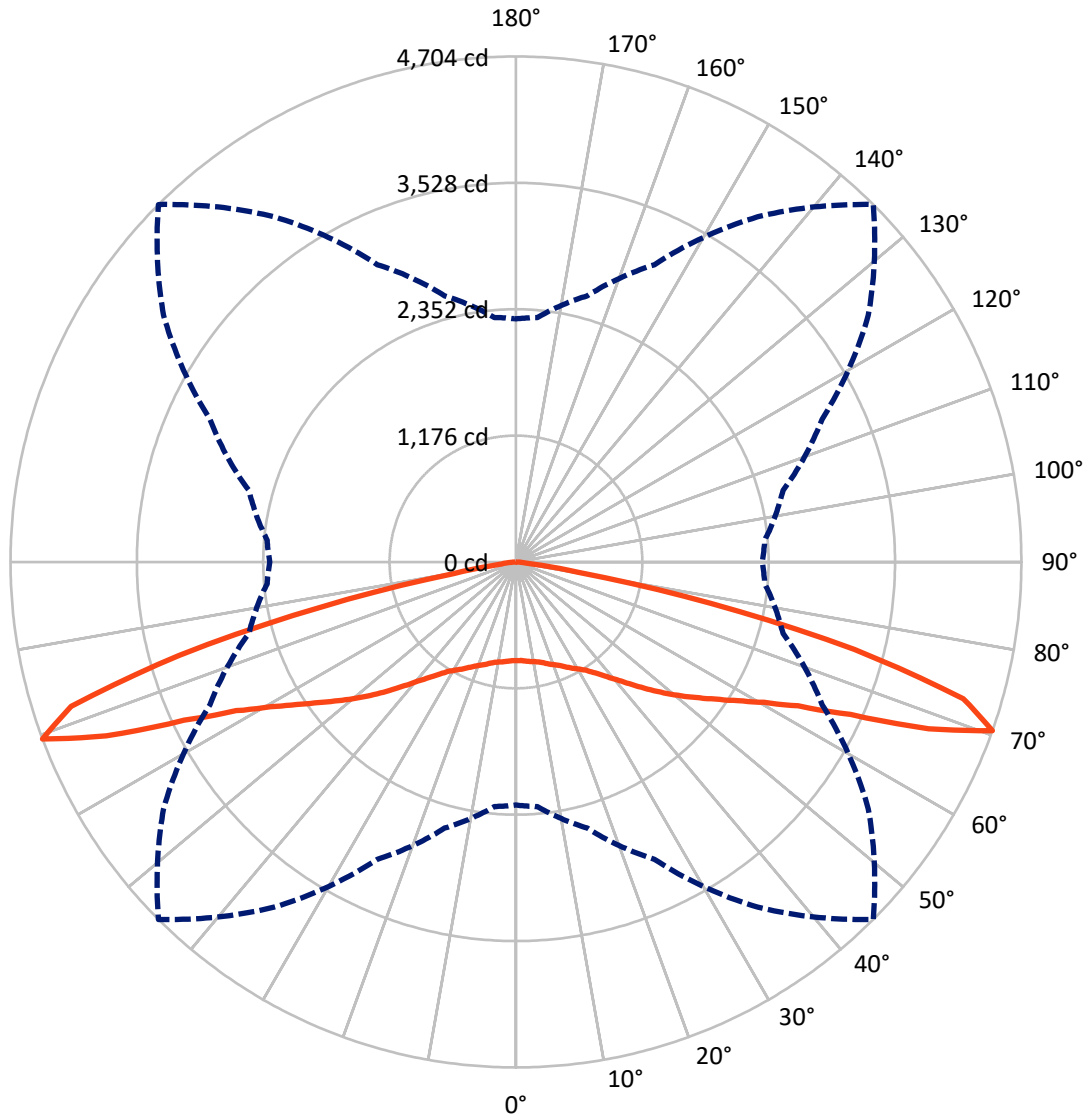
✕ Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4789.5	0.0	4789.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4789.5	0.0	4789.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9579.0	0.0	9579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	0.9
10°-20°	276.4	2.9
20°-30°	494.0	5.2
30°-40°	800.7	8.4
40°-50°	1304.3	13.6
50°-60°	1988.6	20.8
60°-70°	2958.4	30.9
70°-80°	1612.4	16.8
80°-90°	54.9	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°	9579.0	100.0
0°-180°	9579.0	100.0

Coefficient of Utilization



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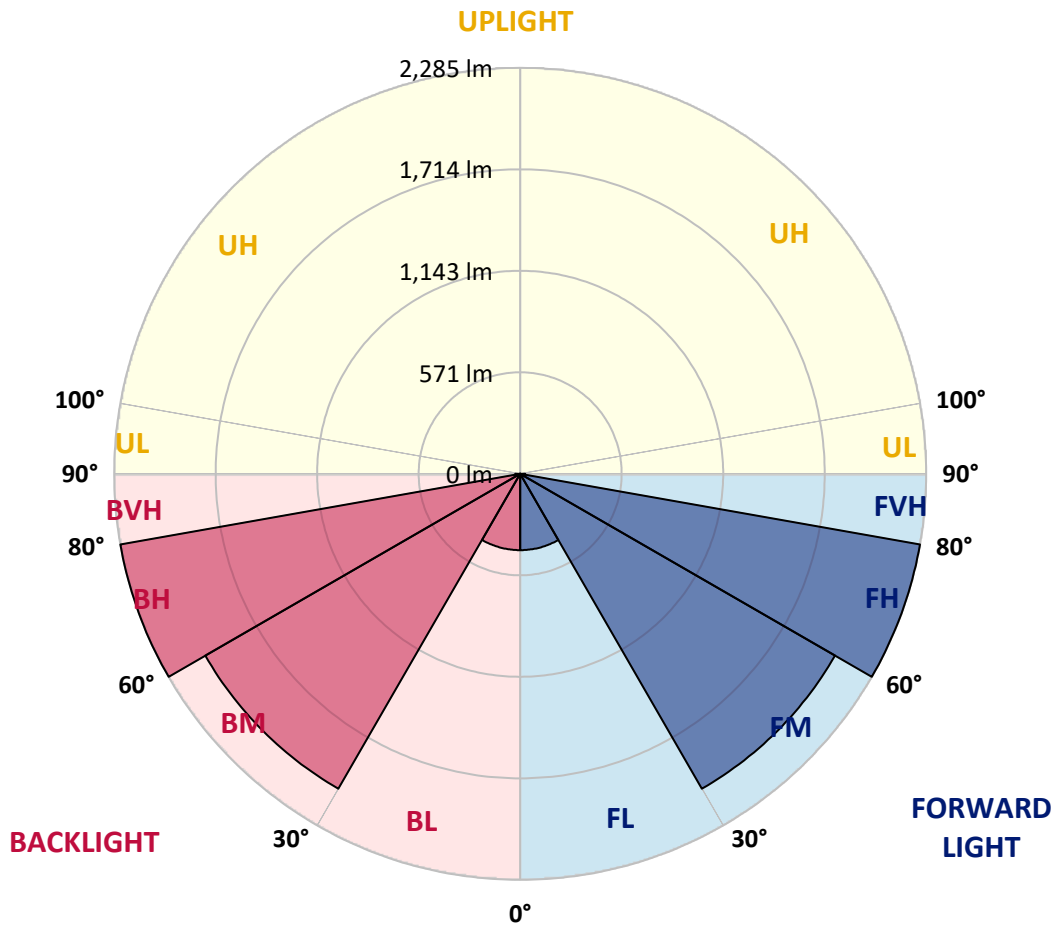
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.8	4.5			
FM (30°-60°)	2046.8	21.4			
FH (60°-80°)	2285.4	23.9			G2/5000
FVH (80°-90°)	27.5	0.3			G1/100
BL (0°-30°)	429.8	4.5	B1/500		
BM (30°-60°)	2046.8	21.4	B2/2500		
BH (60°-80°)	2285.4	23.9	B3/2500		G2/5000
BVH (80°-90°)	27.5	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°
0°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6
2.5°	921.9	922.9	920.9	920.0	919.0	917.6	918.0	920.5	922.4	921.9
5°	929.6	930.6	929.1	928.6	926.7	926.2	926.2	928.6	930.1	929.1
7.5°	938.2	939.7	937.3	936.8	935.8	934.9	934.4	936.8	938.2	938.2
10°	946.4	947.9	945.9	944.5	943.5	943.5	942.6	944.5	946.9	946.4
12.5°	955.1	956.0	954.1	953.2	953.2	954.6	953.2	954.1	956.0	955.1
15°	965.7	966.1	965.7	967.1	969.5	974.3	970.0	969.0	970.0	967.6
17.5°	980.1	981.0	983.0	986.3	989.7	998.4	990.7	988.3	988.3	983.5
20°	997.9	999.3	1002.2	1008.0	1012.3	1020.5	1012.8	1009.4	1008.0	1001.7
22.5°	1016.6	1019.0	1023.4	1031.1	1038.8	1046.5	1038.8	1033.0	1028.7	1020.5
25°	1038.3	1041.2	1047.9	1060.4	1071.0	1082.0	1072.9	1061.4	1052.7	1041.2
27.5°	1069.1	1072.4	1080.6	1096.0	1109.5	1119.1	1110.4	1095.5	1083.5	1069.5
30°	1112.3	1115.7	1125.3	1141.7	1150.8	1157.1	1151.3	1139.7	1125.3	1109.5
32.5°	1168.1	1172.4	1183.0	1198.4	1200.3	1201.3	1199.4	1193.6	1183.0	1163.8
35°	1238.8	1243.6	1255.6	1268.1	1266.2	1268.1	1265.3	1263.3	1255.6	1233.5
37.5°	1325.4	1331.1	1343.7	1353.3	1348.5	1346.1	1346.5	1347.0	1342.7	1318.2
40°	1425.9	1433.6	1442.7	1452.8	1444.6	1437.4	1442.2	1446.1	1442.2	1417.2
42.5°	1529.3	1540.3	1550.0	1564.4	1557.7	1548.5	1555.3	1559.6	1551.4	1524.5
45°	1644.2	1654.8	1667.3	1688.9	1684.1	1674.5	1684.1	1685.1	1671.1	1639.4
47.5°	1763.0	1774.1	1792.8	1821.7	1819.7	1809.2	1821.7	1814.9	1797.1	1759.2
50°	1875.5	1890.9	1919.8	1960.2	1964.0	1951.0	1967.9	1954.9	1925.1	1877.5
52.5°	1981.3	1997.7	2043.4	2098.2	2112.1	2095.3	2117.9	2095.3	2050.6	1989.5
55°	2092.4	2110.7	2165.0	2236.7	2264.6	2252.1	2273.2	2239.1	2175.6	2101.6
57.5°	2223.2	2234.3	2299.2	2384.3	2431.5	2434.3	2444.0	2386.3	2309.3	2225.2
60°	2365.1	2380.5	2451.2	2553.1	2627.7	2651.7	2641.6	2556.0	2466.6	2369.9
62.5°	2546.9	2563.7	2648.4	2770.5	2888.3	2948.0	2908.5	2784.4	2673.8	2557.9
65°	2697.4	2716.2	2869.1	3086.9	3301.4	3421.2	3322.1	3093.7	2894.6	2731.1
67.5°	2588.2	2611.3	2851.3	3251.4	3784.7	4142.0	3803.0	3300.5	2910.4	2688.7
70°	2262.2	2283.8	2563.7	3052.8	3920.8	4703.7	4002.6	3142.7	2572.8	2324.7
72.5°	1501.9	1571.6	1854.9	2441.6	3501.0	4352.7	3535.6	2392.0	1720.7	1498.5
75°	498.2	554.0	747.3	1265.7	2344.9	3255.3	2232.4	1120.0	592.0	426.1
77.5°	125.5	144.8	199.6	362.1	935.4	1853.4	842.1	295.8	161.1	112.5
80°	61.1	67.3	96.2	120.7	234.2	589.1	219.8	113.5	76.0	58.7
82.5°	33.7	34.1	54.3	68.3	87.0	152.4	90.4	66.4	43.8	35.6
85°	20.7	20.2	28.9	36.5	36.5	54.3	43.3	36.5	25.0	22.1
87.5°	8.2	8.2	10.6	11.5	10.1	13.9	11.1	12.0	9.6	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
917.6
922.4
929.6
938.2
946.4
954.6
967.6
983.5
1001.7
1020.0
1040.7
1069.1
1109.5
1164.3
1233.5
1318.2
1417.2
1526.4
1642.8
1756.8
1876.5
1983.7
2091.5
2213.6
2354.5
2537.7
2704.1
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1449.9
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