

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: P946070

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9585 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

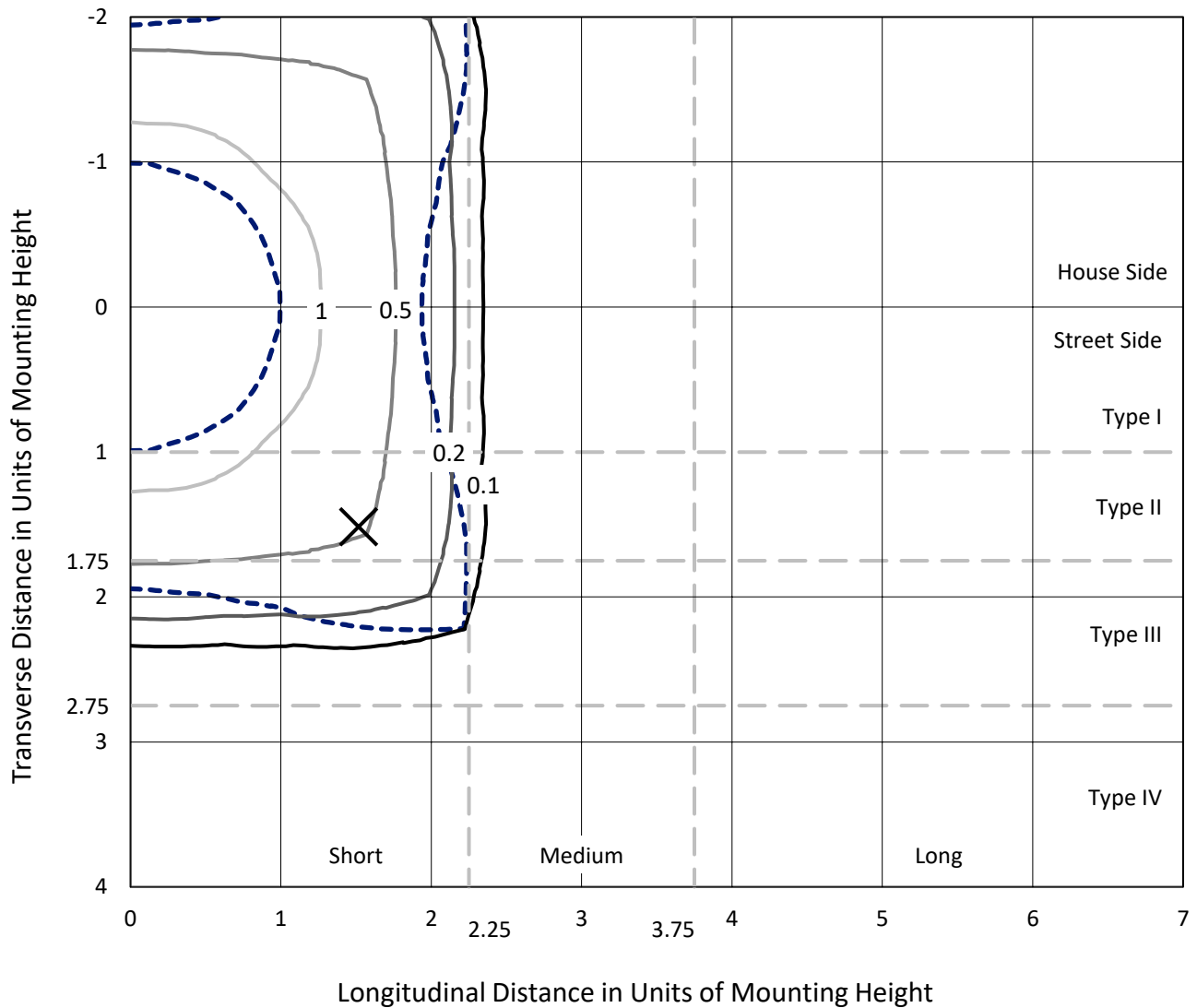
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

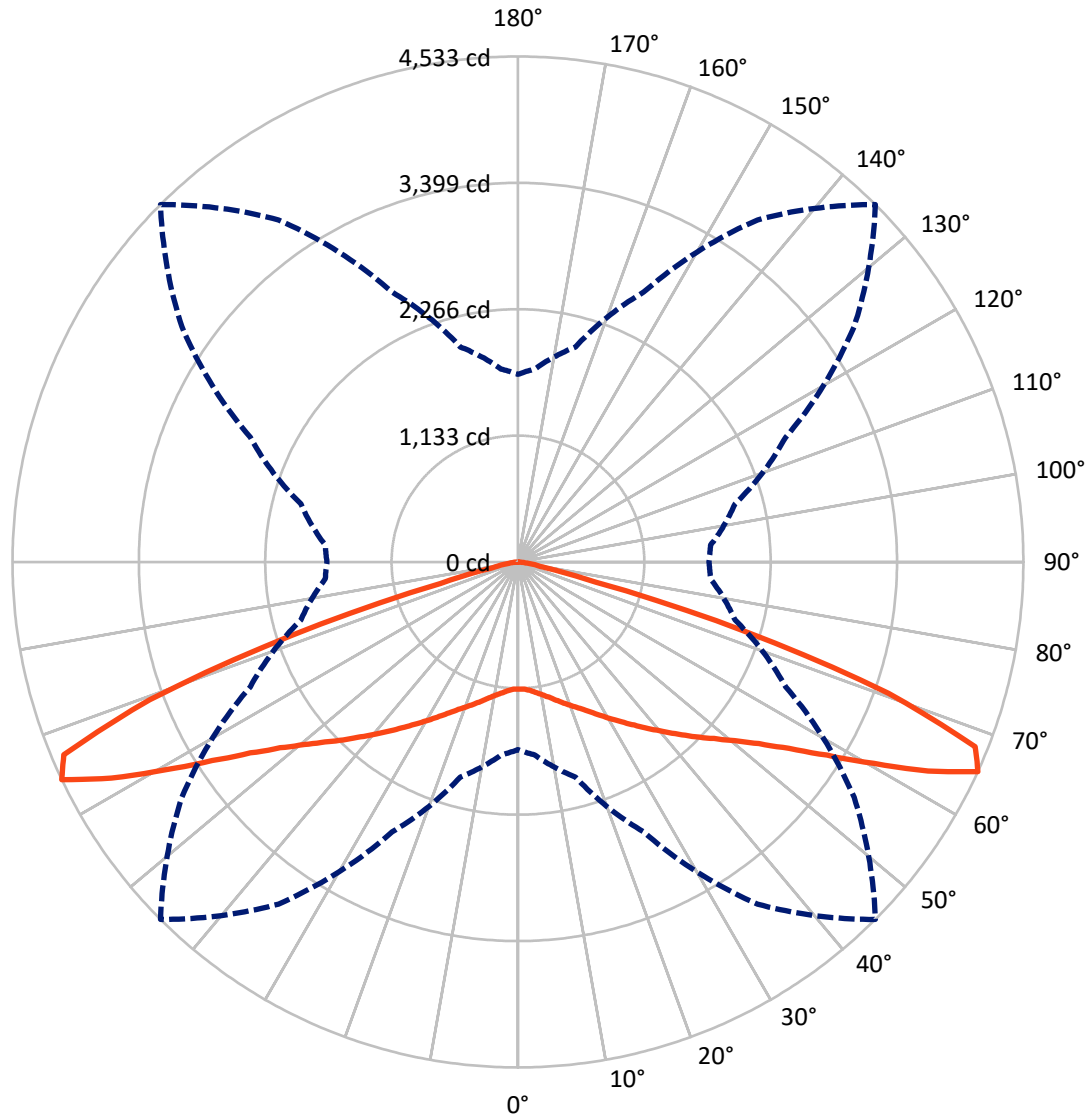
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4792.5	0.0	4792.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4792.5	0.0	4792.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9585.0	0.0	9585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.2
10°-20°	367.3	3.8
20°-30°	693.6	7.2
30°-40°	1135.7	11.8
40°-50°	1761.0	18.4
50°-60°	2601.3	27.1
60°-70°	2476.2	25.8
70°-80°	399.6	4.2
80°-90°	37.7	0.4
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°	9585.0	100.0
0°-180°	9585.0	100.0

Coefficient of Utilization



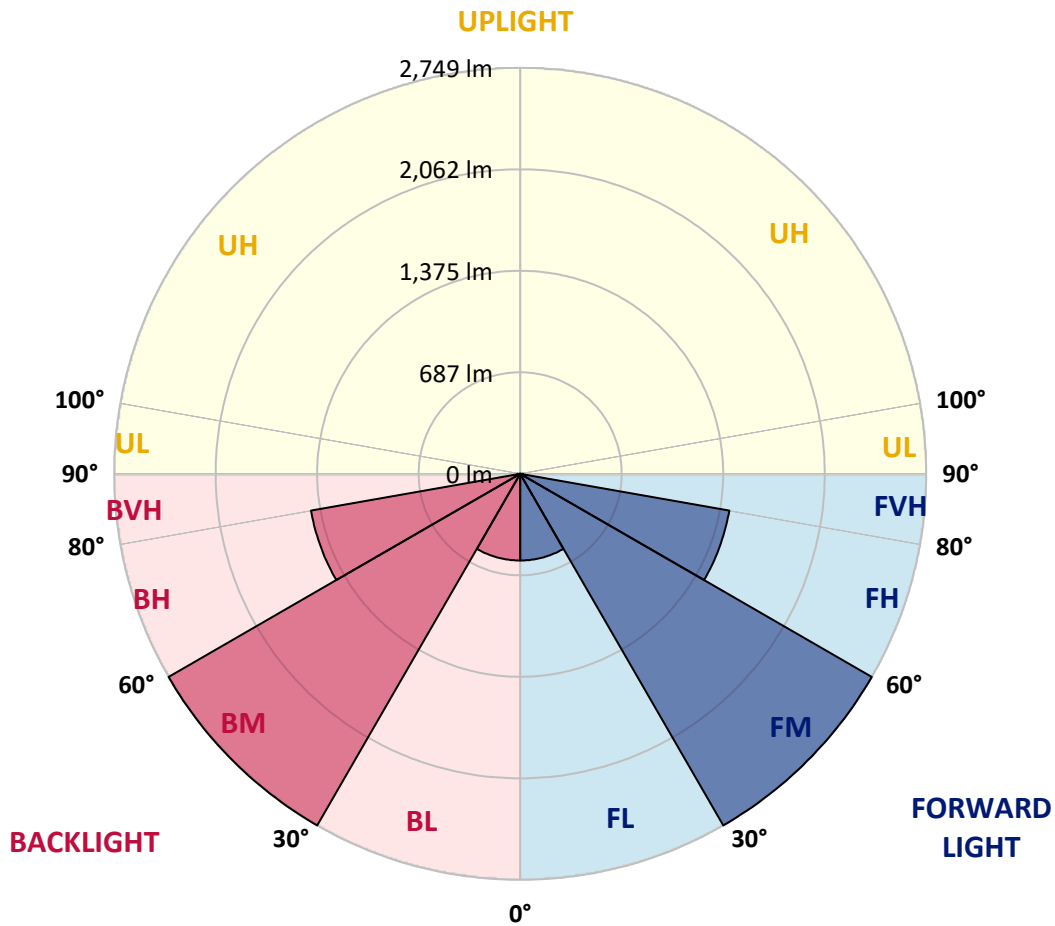
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.8	6.1			
FM (30°-60°)	2749.0	28.7			
FH (60°-80°)	1437.9	15.0			G1/1800
FVH (80°-90°)	18.8	0.2			G1/100
BL (0°-30°)	586.8	6.1	B2/1000		
BM (30°-60°)	2749.0	28.7	B3/5000		
BH (60°-80°)	1437.9	15.0	B3/2500		G1/1800
BVH (80°-90°)	18.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7	1140.7
2.5°	1148.4	1144.6	1147.4	1145.0	1143.1	1141.2	1142.2	1145.5	1147.0	1147.4
5°	1163.8	1160.4	1161.9	1161.9	1158.5	1157.5	1158.0	1160.4	1163.3	1163.3
7.5°	1188.8	1185.4	1188.8	1186.9	1184.0	1183.0	1182.5	1184.5	1188.8	1188.8
10°	1219.1	1215.3	1217.2	1216.2	1212.8	1211.4	1210.9	1213.8	1217.7	1217.2
12.5°	1252.3	1248.0	1250.4	1247.5	1246.5	1245.1	1245.1	1244.6	1247.0	1245.1
15°	1289.3	1286.4	1287.4	1285.5	1286.9	1285.9	1282.1	1280.2	1281.1	1278.3
17.5°	1333.1	1326.3	1329.7	1328.7	1328.7	1330.7	1324.4	1322.0	1323.9	1321.1
20°	1383.6	1376.8	1378.3	1376.4	1374.0	1375.9	1368.2	1370.1	1371.5	1369.6
22.5°	1438.9	1430.2	1429.7	1430.7	1425.4	1425.9	1420.6	1425.4	1428.3	1423.0
25°	1495.6	1486.5	1492.7	1490.3	1483.6	1485.0	1481.2	1486.0	1488.4	1481.7
27.5°	1555.7	1549.5	1555.3	1556.7	1548.5	1554.3	1548.5	1552.8	1555.3	1545.2
30°	1625.9	1619.7	1625.0	1628.8	1619.2	1628.4	1623.5	1626.4	1626.9	1614.9
32.5°	1702.4	1692.8	1706.3	1708.2	1697.6	1708.7	1702.4	1706.3	1708.7	1692.3
35°	1795.7	1783.7	1799.1	1796.7	1787.5	1796.7	1790.9	1796.7	1802.4	1782.7
37.5°	1896.2	1883.7	1900.1	1895.7	1887.1	1893.3	1890.0	1893.8	1902.9	1881.8
40°	2006.8	1991.4	2013.6	2005.9	1997.7	1996.7	1998.6	2001.1	2013.1	1989.5
42.5°	2125.1	2108.8	2142.0	2129.9	2118.4	2110.7	2117.0	2121.8	2133.3	2106.9
45°	2260.3	2241.5	2284.8	2270.4	2252.1	2236.2	2246.3	2253.5	2270.4	2238.6
47.5°	2409.3	2388.2	2434.4	2430.0	2400.2	2365.6	2388.7	2409.3	2421.8	2383.4
50°	2555.1	2538.7	2599.3	2604.6	2568.0	2519.5	2551.7	2583.0	2586.3	2535.8
52.5°	2691.6	2675.3	2763.3	2796.5	2763.8	2706.1	2740.2	2771.9	2746.5	2681.1
55°	2800.8	2787.3	2899.4	2985.0	2996.0	2948.4	2968.6	2967.7	2884.0	2783.5
57.5°	2827.3	2825.3	2966.7	3148.0	3263.4	3269.2	3229.3	3127.3	2947.0	2811.9
60°	2707.0	2719.0	2913.3	3233.1	3540.9	3668.8	3496.2	3205.2	2875.3	2687.8
62.5°	2347.3	2379.0	2613.2	3129.3	3765.0	4128.6	3710.2	3086.9	2581.0	2336.2
65°	1682.2	1737.5	1996.2	2670.5	3744.8	4532.5	3679.4	2648.8	2015.5	1733.2
67.5°	763.2	819.5	1039.2	1828.4	3255.3	4422.9	3247.6	1847.6	1091.2	822.4
70°	276.5	286.1	356.8	731.9	2080.4	3524.1	2169.4	737.2	379.4	304.9
72.5°	167.4	168.8	183.7	262.1	722.8	2139.6	753.6	270.8	187.6	166.4
75°	106.3	105.3	130.8	160.1	256.3	721.8	268.8	160.1	130.3	118.8
77.5°	76.5	78.9	93.8	119.7	161.6	244.8	158.7	114.5	93.8	76.9
80°	57.2	58.7	68.3	93.3	113.5	152.4	101.0	84.6	70.7	48.1
82.5°	41.4	41.4	44.7	67.8	69.3	82.2	54.8	59.6	46.6	34.1
85°	24.5	24.0	27.9	40.4	36.1	30.3	25.0	36.5	29.3	21.2
87.5°	8.7	9.1	8.7	11.5	9.6	8.2	7.7	10.1	8.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1140.7
1147.4
1163.3
1187.4
1216.2
1246.0
1278.7
1323.5
1374.0
1428.3
1489.4
1552.8
1622.1
1703.4
1794.7
1894.8
1997.2
2120.8
2255.0
2396.4
2542.1
2683.0
2786.9
2803.2
2665.7
2321.8
1712.5
810.3
301.0
169.3
119.7
78.4
49.5
34.1
20.7
6.7
0.0

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