

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: P946112

Luminaire Tested: **GALN-SB1D-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946112
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10203 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

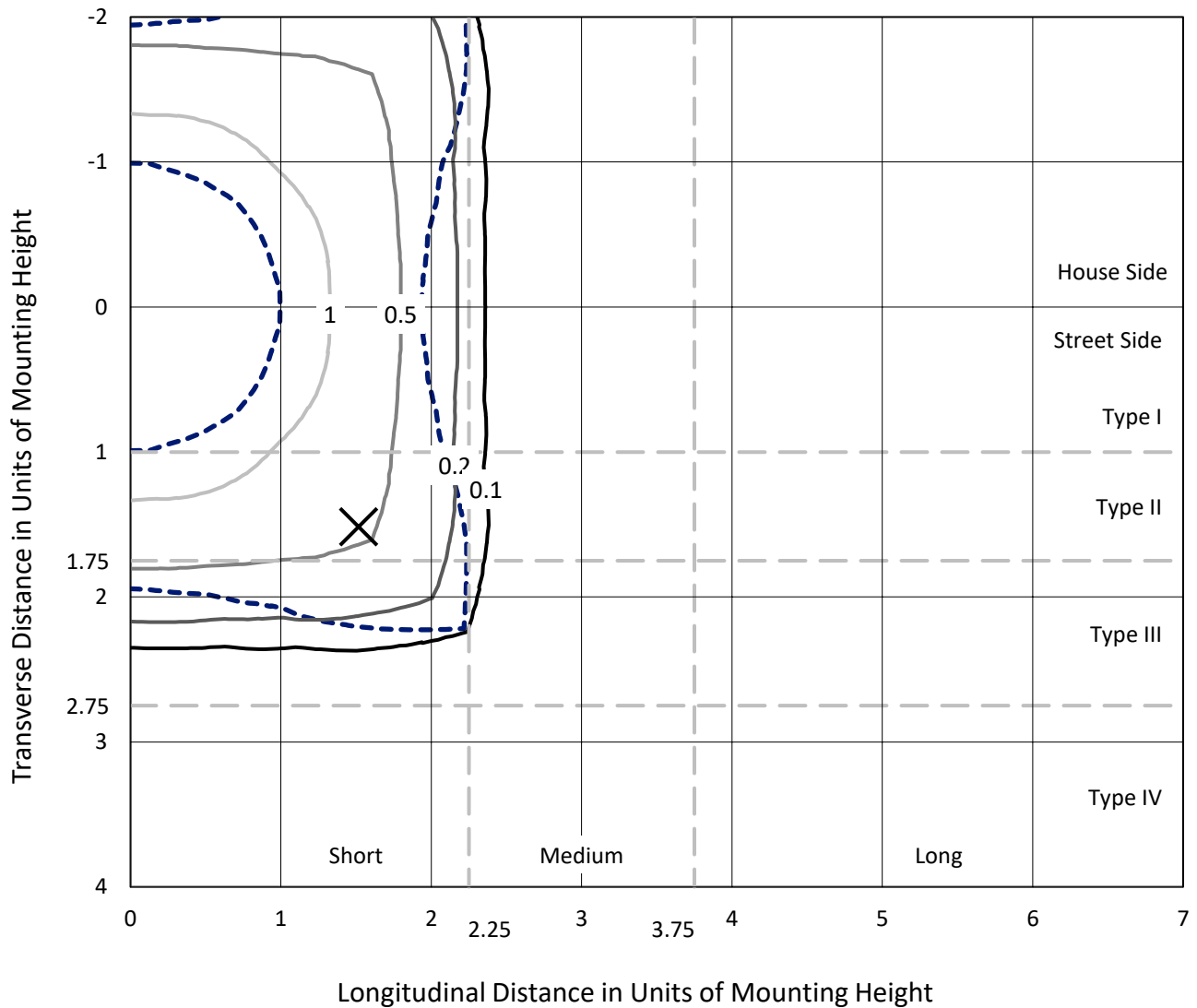
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

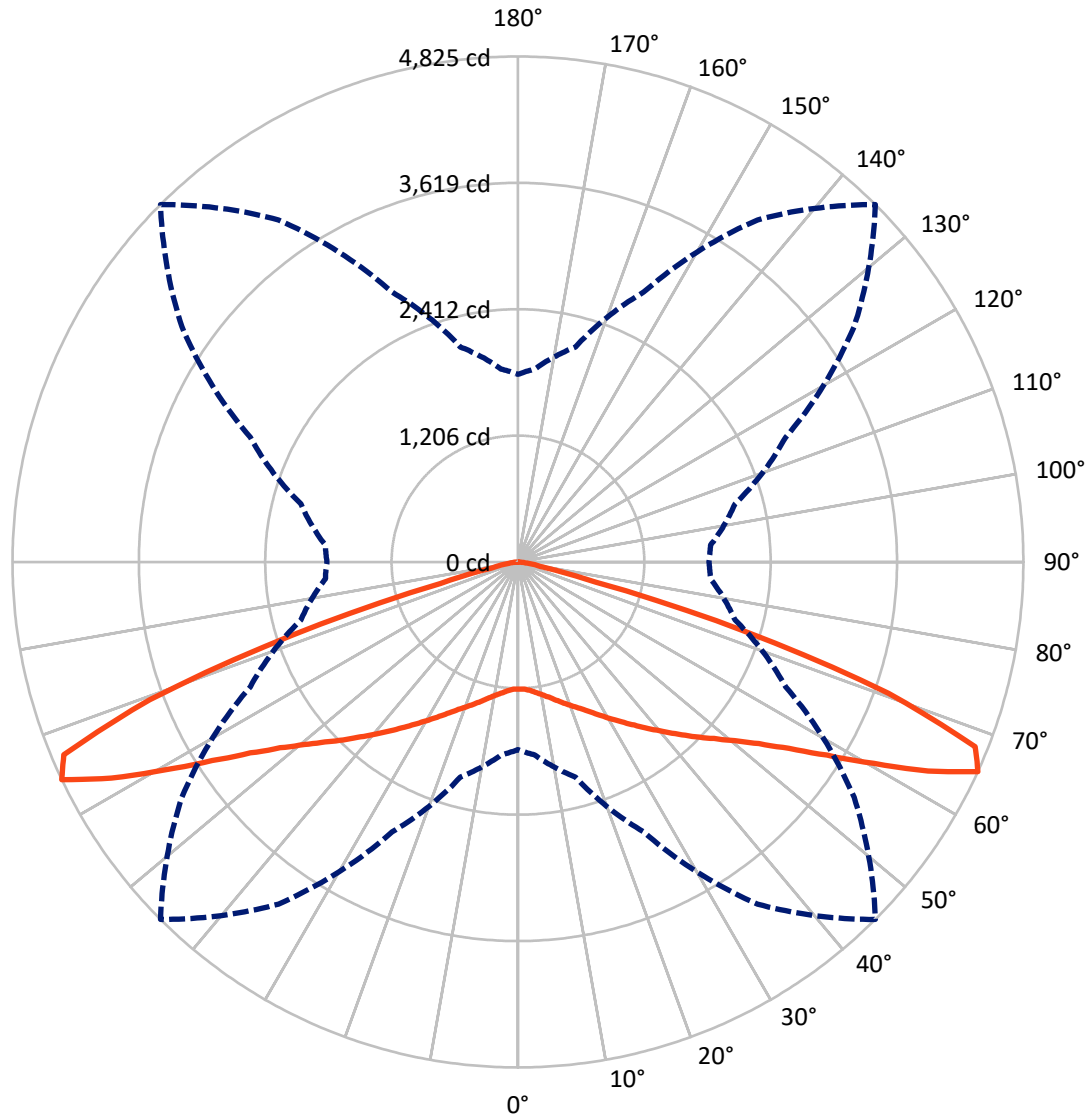
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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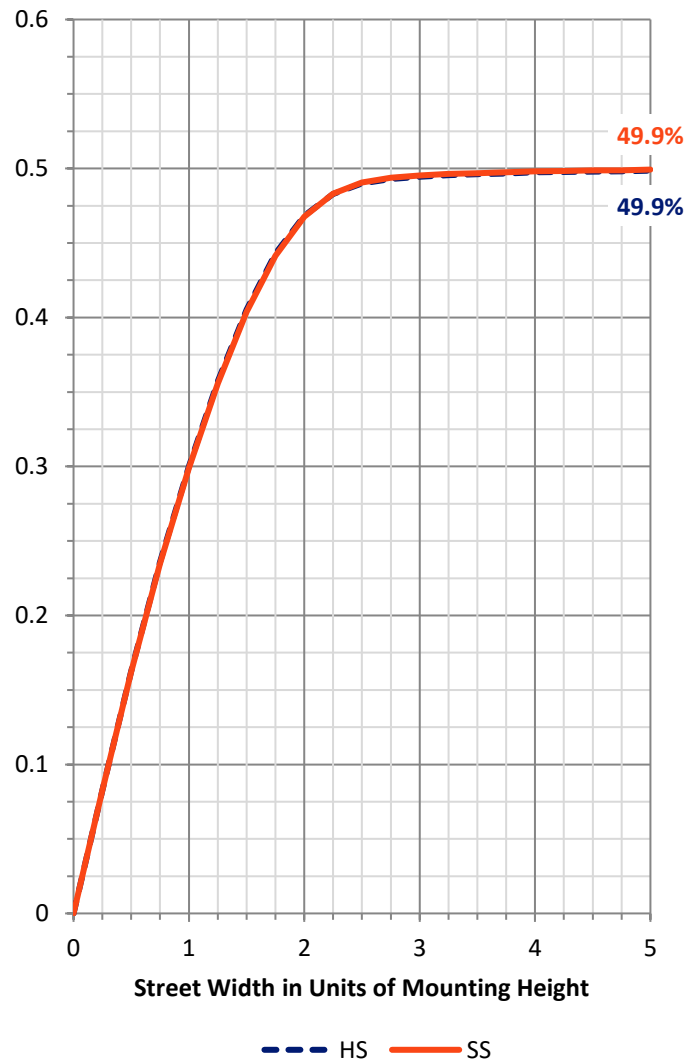
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5101.5	0.0	5101.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5101.5	0.0	5101.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10203.0	0.0	10203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.2
10°-20°	391.0	3.8
20°-30°	738.3	7.2
30°-40°	1209.0	11.8
40°-50°	1874.5	18.4
50°-60°	2769.0	27.1
60°-70°	2635.9	25.8
70°-80°	425.3	4.2
80°-90°	40.1	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°	10203.0	100.0
0°-180°	10203.0	100.0

Coefficient of Utilization



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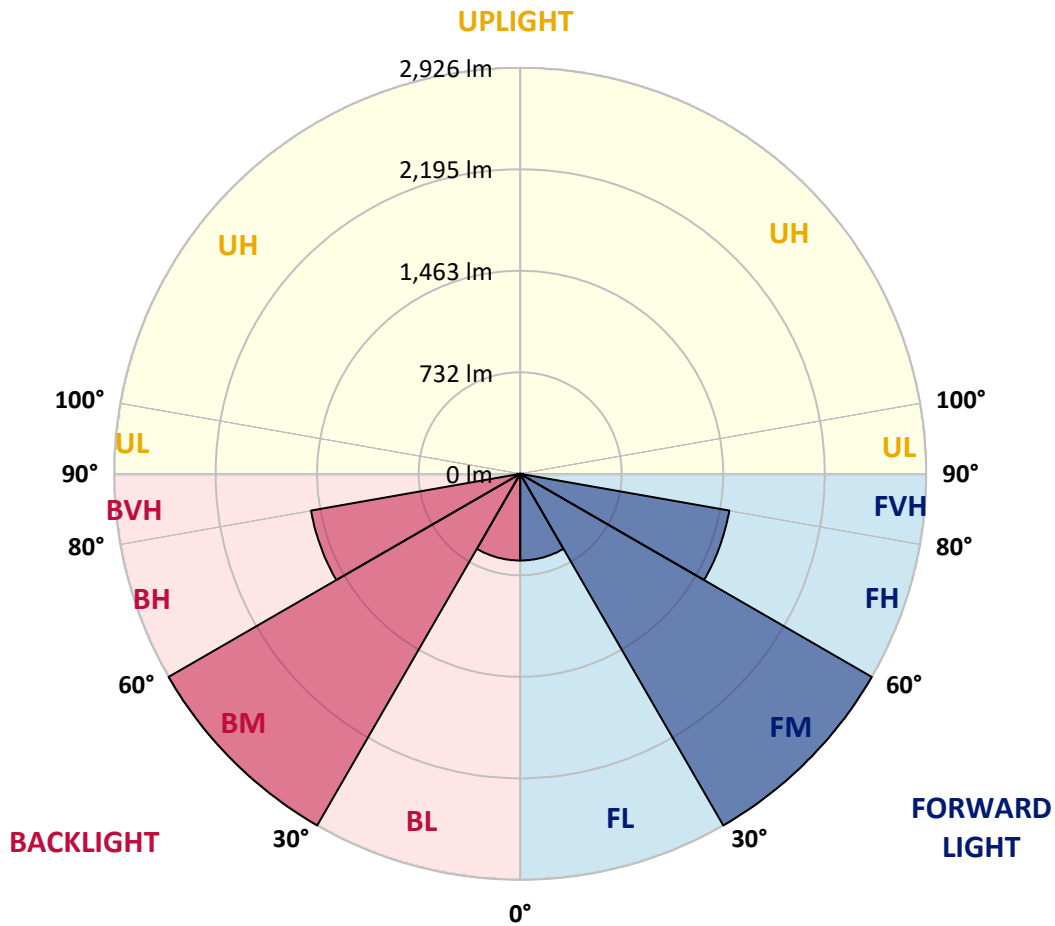
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.6	6.1			
FM (30°-60°)	2926.3	28.7			
FH (60°-80°)	1530.6	15.0			G1/1800
FVH (80°-90°)	20.0	0.2			G1/100
BL (0°-30°)	624.6	6.1	B2/1000		
BM (30°-60°)	2926.3	28.7	B3/5000		
BH (60°-80°)	1530.6	15.0	B3/2500		G1/1800
BVH (80°-90°)	20.0	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°	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3	1214.3
2.5°	1222.4	1218.4	1221.4	1218.9	1216.8	1214.8	1215.8	1219.4	1220.9	1221.4
5°	1238.8	1235.2	1236.8	1236.8	1233.2	1232.2	1232.7	1235.2	1238.3	1238.3
7.5°	1265.5	1261.9	1265.5	1263.4	1260.3	1259.3	1258.8	1260.8	1265.5	1265.5
10°	1297.7	1293.6	1295.7	1294.6	1291.0	1289.5	1289.0	1292.1	1296.2	1295.7
12.5°	1333.0	1328.4	1331.0	1327.9	1326.9	1325.3	1325.3	1324.8	1327.4	1325.3
15°	1372.4	1369.4	1370.4	1368.3	1369.9	1368.9	1364.8	1362.7	1363.7	1360.7
17.5°	1419.0	1411.9	1415.4	1414.4	1414.4	1416.5	1409.8	1407.3	1409.3	1406.2
20°	1472.8	1465.6	1467.1	1465.1	1462.5	1464.6	1456.4	1458.4	1460.0	1457.9
22.5°	1531.6	1522.4	1521.9	1522.9	1517.3	1517.8	1512.2	1517.3	1520.4	1514.8
25°	1592.1	1582.3	1589.0	1586.4	1579.3	1580.8	1576.7	1581.8	1584.4	1577.2
27.5°	1656.0	1649.4	1655.5	1657.1	1648.4	1654.5	1648.4	1653.0	1655.5	1644.8
30°	1730.8	1724.1	1729.8	1733.9	1723.6	1733.3	1728.2	1731.3	1731.8	1719.0
32.5°	1812.2	1801.9	1816.3	1818.3	1807.1	1818.8	1812.2	1816.3	1818.8	1801.4
35°	1911.5	1898.7	1915.1	1912.5	1902.8	1912.5	1906.4	1912.5	1918.7	1897.7
37.5°	2018.5	2005.2	2022.6	2018.0	2008.7	2015.4	2011.8	2015.9	2025.6	2003.1
40°	2136.2	2119.8	2143.4	2135.2	2126.5	2125.5	2127.5	2130.1	2142.9	2117.8
42.5°	2262.1	2244.7	2280.1	2267.3	2255.0	2246.8	2253.4	2258.6	2270.8	2242.7
45°	2406.0	2386.0	2432.1	2416.7	2397.3	2380.4	2391.1	2398.8	2416.7	2383.0
47.5°	2564.7	2542.2	2591.3	2586.7	2555.0	2518.1	2542.7	2564.7	2578.0	2537.0
50°	2719.8	2702.4	2766.9	2772.5	2733.6	2681.9	2716.2	2749.5	2753.1	2699.3
52.5°	2865.2	2847.8	2941.5	2976.8	2942.0	2880.5	2916.9	2950.7	2923.5	2853.9
55°	2981.4	2967.1	3086.3	3177.4	3189.2	3138.5	3160.0	3159.0	3069.9	2963.0
57.5°	3009.5	3007.5	3158.0	3351.0	3473.8	3480.0	3437.5	3329.0	3137.0	2993.2
60°	2881.6	2894.4	3101.2	3441.6	3769.2	3905.4	3721.6	3411.9	3060.7	2861.1
62.5°	2498.7	2532.4	2781.7	3331.0	4007.8	4394.8	3949.4	3286.0	2747.4	2486.9
65°	1790.7	1849.5	2125.0	2842.7	3986.3	4824.8	3916.7	2819.6	2145.4	1844.9
67.5°	812.4	872.3	1106.2	1946.3	3465.1	4708.1	3457.0	1966.8	1161.5	875.4
70°	294.4	304.6	379.8	779.1	2214.5	3751.3	2309.2	784.8	403.9	324.6
72.5°	178.1	179.7	195.6	279.0	769.4	2277.5	802.2	288.2	199.6	177.1
75°	113.1	112.1	139.2	170.5	272.8	768.4	286.2	170.5	138.7	126.4
77.5°	81.4	84.0	99.8	127.5	172.0	260.6	168.9	121.8	99.8	81.9
80°	60.9	62.5	72.7	99.3	120.8	162.3	107.5	90.1	75.3	51.2
82.5°	44.0	44.0	47.6	72.2	73.7	87.5	58.4	63.5	49.7	36.3
85°	26.1	25.6	29.7	43.0	38.4	32.3	26.6	38.9	31.2	22.5
87.5°	9.2	9.7	9.2	12.3	10.2	8.7	8.2	10.8	8.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1214.3
1221.4
1238.3
1263.9
1294.6
1326.4
1361.2
1408.8
1462.5
1520.4
1585.4
1653.0
1726.7
1813.2
1910.5
2016.9
2126.0
2257.5
2400.4
2550.9
2706.0
2856.0
2966.5
2983.9
2837.5
2471.5
1822.9
862.6
320.5
180.2
127.5
83.4
52.7
36.3
22.0
7.2
0.0

OF REPORT)