

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: P946931

Luminaire Tested: **GALN-SB2B-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946931
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-SB2B-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8551 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

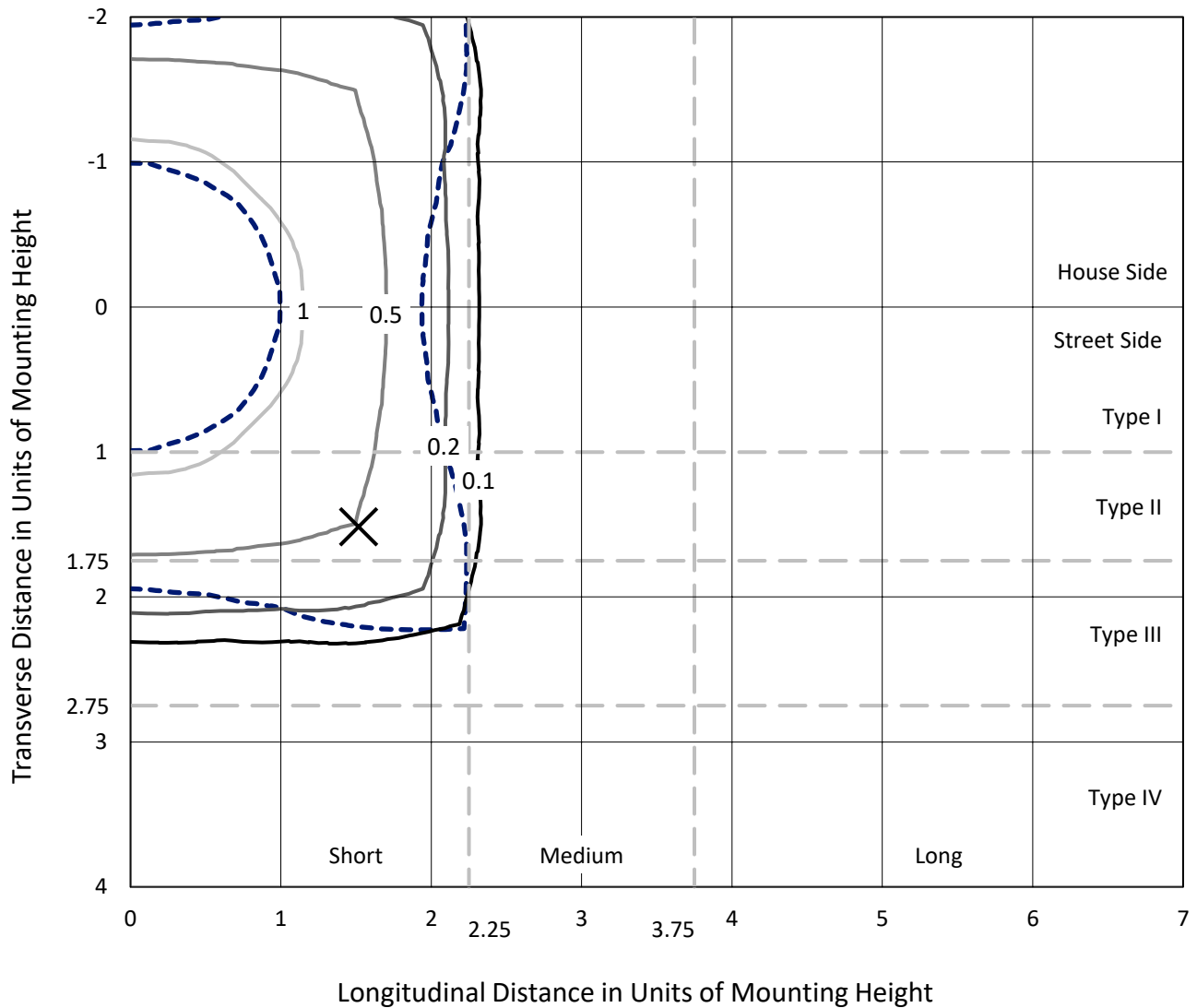
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

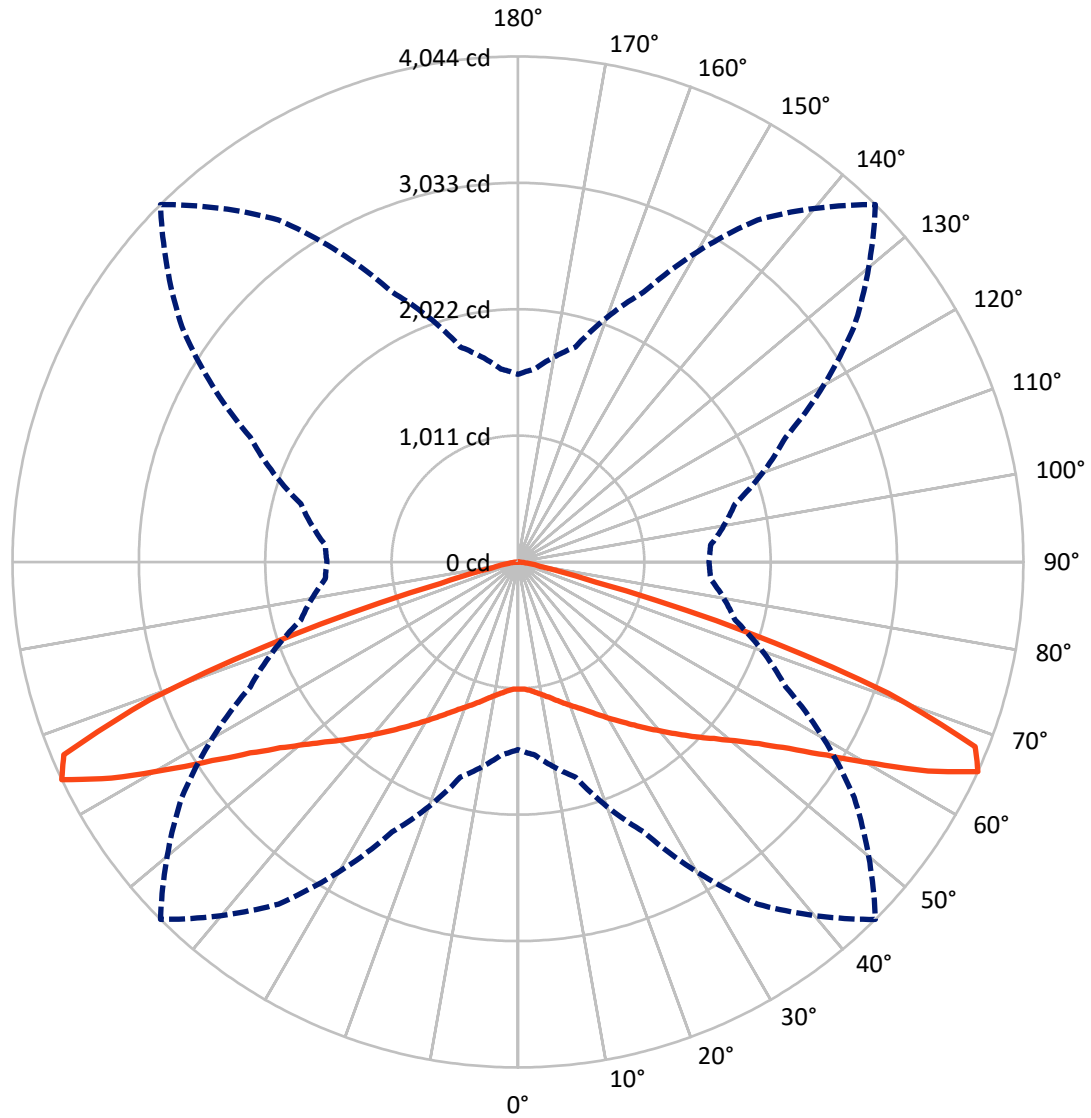
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4275.5	0.0	4275.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4275.5	0.0	4275.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8551.0	0.0	8551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.2
10°-20°	327.7	3.8
20°-30°	618.8	7.2
30°-40°	1013.2	11.8
40°-50°	1571.0	18.4
50°-60°	2320.7	27.1
60°-70°	2209.1	25.8
70°-80°	356.5	4.2
80°-90°	33.6	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°	8551.0	100.0
0°-180°	8551.0	100.0



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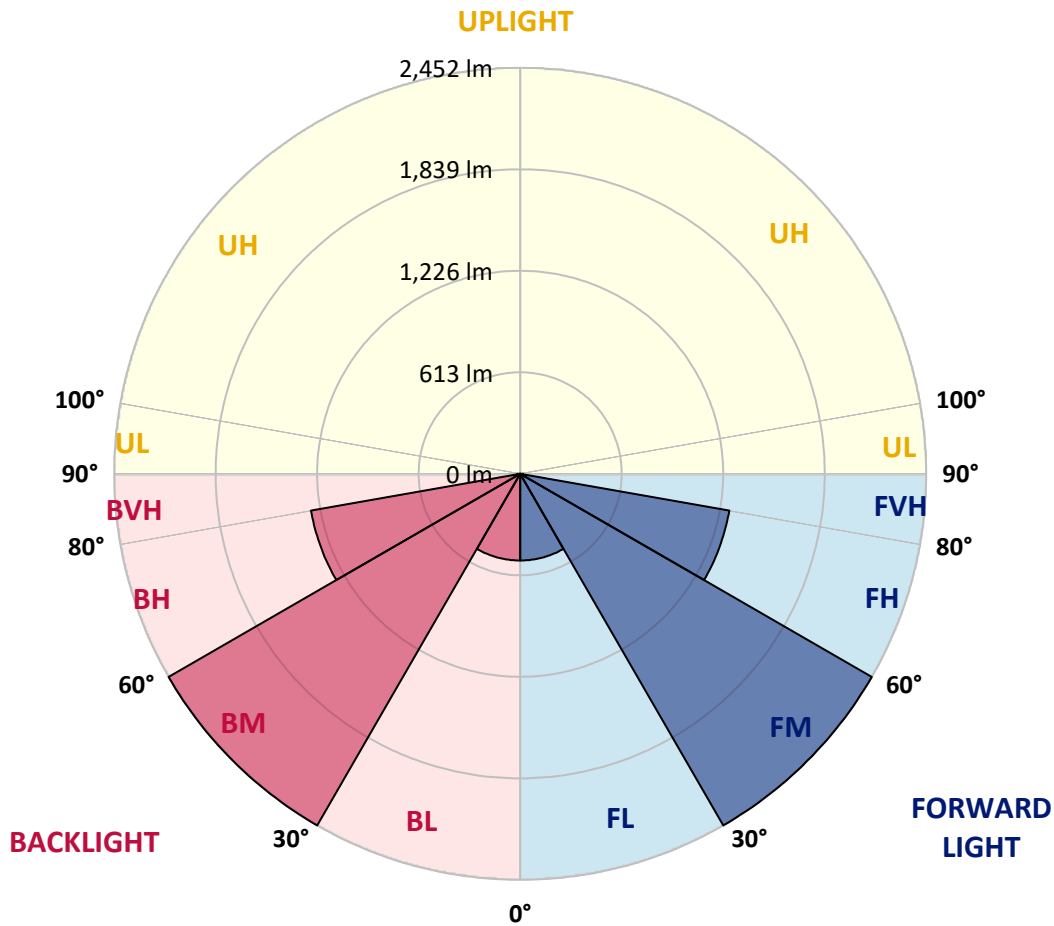
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.5	6.1			
FM (30°-60°)	2452.5	28.7			
FH (60°-80°)	1282.8	15.0			G1/1800
FVH (80°-90°)	16.8	0.2			G1/100
BL (0°-30°)	523.5	6.1	B2/1000		
BM (30°-60°)	2452.5	28.7	B2/2500		
BH (60°-80°)	1282.8	15.0	B3/2500		G1/1800
BVH (80°-90°)	16.8	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°	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7	1017.7
2.5°	1024.5	1021.1	1023.7	1021.5	1019.8	1018.1	1018.9	1021.9	1023.2	1023.7
5°	1038.2	1035.2	1036.5	1036.5	1033.5	1032.7	1033.1	1035.2	1037.8	1037.8
7.5°	1060.6	1057.6	1060.6	1058.8	1056.3	1055.4	1055.0	1056.7	1060.6	1060.6
10°	1087.6	1084.2	1085.9	1085.0	1082.0	1080.7	1080.3	1082.9	1086.3	1085.9
12.5°	1117.2	1113.3	1115.5	1112.9	1112.0	1110.8	1110.8	1110.3	1112.5	1110.8
15°	1150.2	1147.7	1148.5	1146.8	1148.1	1147.2	1143.8	1142.1	1142.9	1140.4
17.5°	1189.3	1183.3	1186.3	1185.4	1185.4	1187.1	1181.5	1179.4	1181.1	1178.5
20°	1234.3	1228.3	1229.6	1227.9	1225.7	1227.4	1220.6	1222.3	1223.6	1221.9
22.5°	1283.7	1275.9	1275.5	1276.4	1271.6	1272.1	1267.3	1271.6	1274.2	1269.5
25°	1334.3	1326.1	1331.7	1329.6	1323.6	1324.8	1321.4	1325.7	1327.8	1321.8
27.5°	1387.9	1382.3	1387.5	1388.8	1381.5	1386.6	1381.5	1385.3	1387.5	1378.5
30°	1450.5	1445.0	1449.7	1453.1	1444.5	1452.7	1448.4	1451.0	1451.4	1440.7
32.5°	1518.8	1510.2	1522.2	1523.9	1514.5	1524.3	1518.8	1522.2	1524.3	1509.7
35°	1602.0	1591.3	1605.0	1602.8	1594.7	1602.8	1597.7	1602.8	1608.0	1590.4
37.5°	1691.7	1680.5	1695.1	1691.2	1683.5	1689.1	1686.1	1689.5	1697.7	1678.8
40°	1790.3	1776.6	1796.3	1789.5	1782.2	1781.3	1783.0	1785.2	1795.9	1774.9
42.5°	1895.9	1881.3	1910.9	1900.2	1889.9	1883.0	1888.6	1892.9	1903.2	1879.6
45°	2016.4	1999.7	2038.3	2025.4	2009.1	1995.0	2004.0	2010.4	2025.4	1997.1
47.5°	2149.4	2130.6	2171.7	2167.9	2141.3	2110.4	2131.0	2149.4	2160.6	2126.3
50°	2279.4	2264.8	2318.9	2323.6	2291.0	2247.7	2276.4	2304.3	2307.3	2262.3
52.5°	2401.3	2386.7	2465.2	2494.8	2465.6	2414.1	2444.6	2472.9	2450.2	2391.8
55°	2498.7	2486.6	2586.6	2663.0	2672.8	2630.4	2648.4	2647.5	2572.9	2483.2
57.5°	2522.3	2520.5	2646.7	2808.4	2911.4	2916.5	2880.9	2790.0	2629.1	2508.5
60°	2415.0	2425.7	2599.1	2884.4	3158.9	3273.1	3119.0	2859.5	2565.2	2397.8
62.5°	2094.1	2122.4	2331.3	2791.7	3358.9	3683.2	3310.0	2753.9	2302.6	2084.2
65°	1500.7	1550.1	1780.9	2382.4	3340.8	4043.6	3282.5	2363.1	1798.1	1546.2
67.5°	680.9	731.1	927.1	1631.2	2904.1	3945.8	2897.2	1648.3	973.5	733.6
70°	246.7	255.3	318.3	653.0	1856.0	3143.9	1935.3	657.7	338.5	272.0
72.5°	149.3	150.6	163.9	233.8	644.8	1908.7	672.3	241.5	167.3	148.4
75°	94.8	94.0	116.7	142.9	228.7	644.0	239.8	142.9	116.3	106.0
77.5°	68.2	70.4	83.7	106.8	144.2	218.4	141.6	102.1	83.7	68.6
80°	51.1	52.3	60.9	83.2	101.3	136.0	90.1	75.5	63.1	42.9
82.5°	36.9	36.9	39.9	60.5	61.8	73.4	48.9	53.2	41.6	30.5
85°	21.9	21.5	24.9	36.0	32.2	27.0	22.3	32.6	26.2	18.9
87.5°	7.7	8.2	7.7	10.3	8.6	7.3	6.9	9.0	7.3	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1017.7
1023.7
1037.8
1059.3
1085.0
1111.6
1140.8
1180.7
1225.7
1274.2
1328.7
1385.3
1447.1
1519.6
1601.1
1690.4
1781.8
1892.0
2011.7
2137.8
2267.8
2393.5
2486.2
2500.8
2378.1
2071.3
1527.8
722.9
268.6
151.0
106.8
69.9
44.2
30.5
18.4
6.0
0.0

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