

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: P946280

Luminaire Tested: **GALN-SB2A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946280
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-SB2A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8719 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

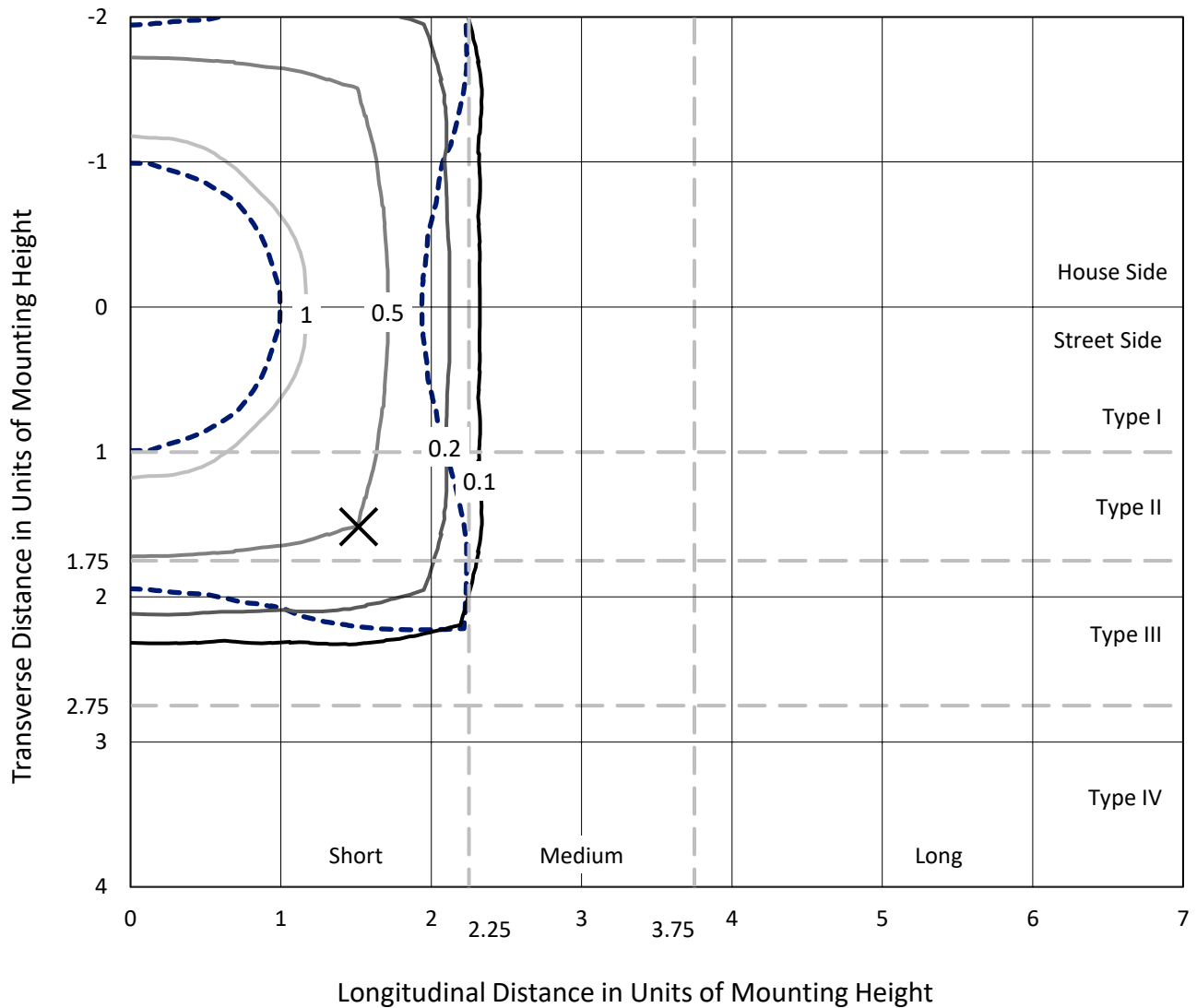
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

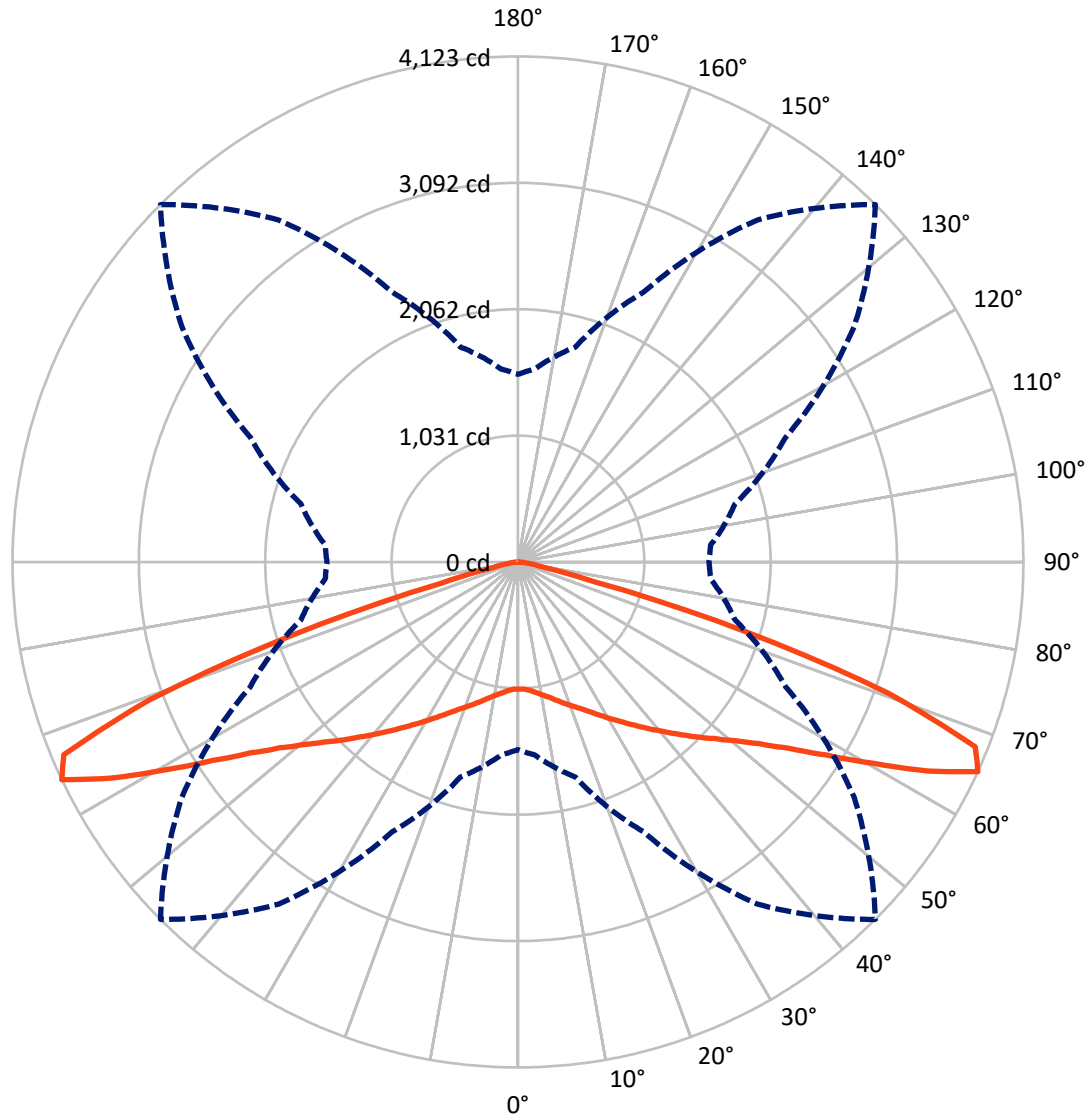
✕ Max cd
 - - - 1/2 Max cd



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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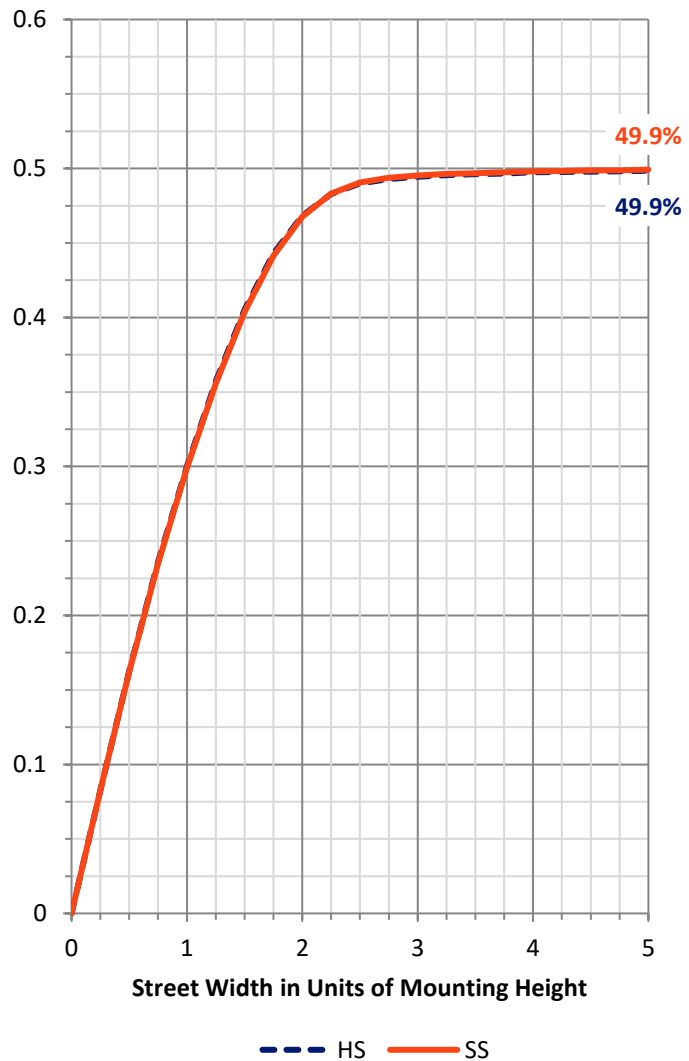
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4359.5	0.0	4359.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4359.5	0.0	4359.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8719.0	0.0	8719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.2
10°-20°	334.2	3.8
20°-30°	630.9	7.2
30°-40°	1033.1	11.8
40°-50°	1601.9	18.4
50°-60°	2366.3	27.1
60°-70°	2252.5	25.8
70°-80°	363.5	4.2
80°-90°	34.3	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°	8719.0	100.0
0°-180°	8719.0	100.0

Coefficient of Utilization



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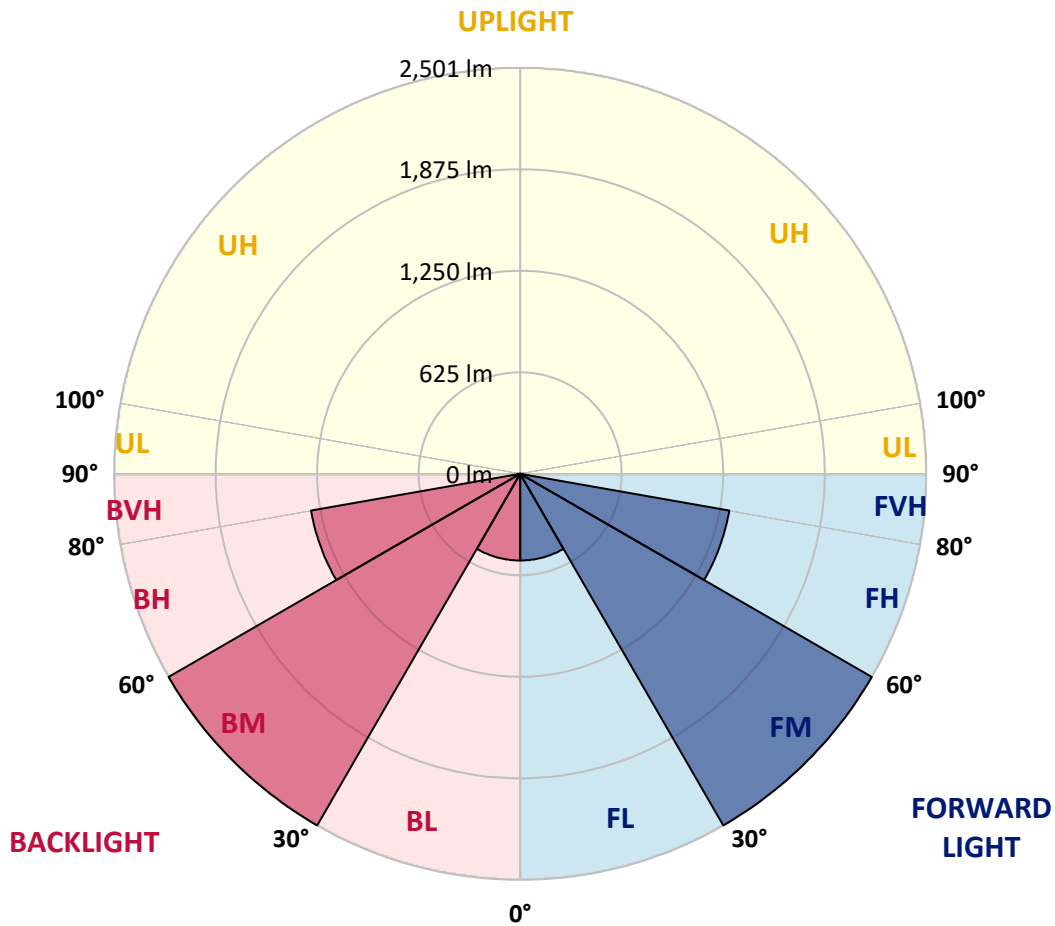
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	6.1			
FM (30°-60°)	2500.6	28.7			
FH (60°-80°)	1308.0	15.0			G1/1800
FVH (80°-90°)	17.1	0.2			G1/100
BL (0°-30°)	533.7	6.1	B2/1000		
BM (30°-60°)	2500.6	28.7	B3/5000		
BH (60°-80°)	1308.0	15.0	B3/2500		G1/1800
BVH (80°-90°)	17.1	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°	90°
0°	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6
2.5°	1044.6	1041.1	1043.8	1041.6	1039.8	1038.1	1039.0	1042.0	1043.3	1043.8	1043.8
5°	1058.6	1055.6	1056.9	1056.9	1053.8	1053.0	1053.4	1055.6	1058.2	1058.2	1058.2
7.5°	1081.4	1078.3	1081.4	1079.6	1077.0	1076.1	1075.7	1077.5	1081.4	1081.4	1080.1
10°	1109.0	1105.5	1107.2	1106.3	1103.3	1102.0	1101.5	1104.1	1107.6	1107.2	1106.3
12.5°	1139.1	1135.2	1137.4	1134.8	1133.9	1132.6	1132.6	1132.1	1134.3	1132.6	1133.5
15°	1172.8	1170.2	1171.1	1169.3	1170.6	1169.8	1166.3	1164.5	1165.4	1162.8	1163.2
17.5°	1212.6	1206.5	1209.6	1208.7	1208.7	1210.4	1204.8	1202.6	1204.3	1201.7	1203.9
20°	1258.6	1252.4	1253.8	1252.0	1249.8	1251.6	1244.6	1246.3	1247.6	1245.9	1249.8
22.5°	1308.9	1301.0	1300.6	1301.4	1296.6	1297.1	1292.2	1296.6	1299.2	1294.4	1299.2
25°	1360.5	1352.2	1357.9	1355.7	1349.6	1350.9	1347.4	1351.7	1353.9	1347.8	1354.8
27.5°	1415.2	1409.5	1414.7	1416.0	1408.6	1413.9	1408.6	1412.5	1414.7	1405.5	1412.5
30°	1479.0	1473.4	1478.2	1481.7	1472.9	1481.2	1476.9	1479.5	1479.9	1469.0	1475.5
32.5°	1548.6	1539.8	1552.1	1553.8	1544.2	1554.3	1548.6	1552.1	1554.3	1539.4	1549.5
35°	1633.5	1622.5	1636.5	1634.3	1626.0	1634.3	1629.1	1634.3	1639.6	1621.7	1632.6
37.5°	1724.9	1713.5	1728.4	1724.5	1716.6	1722.3	1719.2	1722.7	1731.0	1711.8	1723.6
40°	1825.5	1811.5	1831.6	1824.6	1817.2	1816.3	1818.1	1820.3	1831.2	1809.8	1816.8
42.5°	1933.1	1918.2	1948.4	1937.5	1927.0	1920.0	1925.7	1930.1	1940.6	1916.5	1929.2
45°	2056.0	2039.0	2078.4	2065.2	2048.6	2034.2	2043.4	2049.9	2065.2	2036.4	2051.2
47.5°	2191.7	2172.4	2214.4	2210.5	2183.3	2151.9	2172.8	2191.7	2203.0	2168.0	2179.8
50°	2324.2	2309.3	2364.5	2369.3	2336.0	2291.8	2321.1	2349.6	2352.6	2306.7	2312.4
52.5°	2448.4	2433.6	2513.6	2543.8	2514.1	2461.6	2492.6	2521.5	2498.3	2438.8	2440.6
55°	2547.8	2535.5	2637.4	2715.3	2725.4	2682.0	2700.4	2699.5	2623.4	2532.0	2535.1
57.5°	2571.8	2570.1	2698.7	2863.6	2968.6	2973.8	2937.5	2844.8	2680.7	2557.8	2549.9
60°	2462.4	2473.4	2650.1	2941.0	3221.0	3337.4	3180.3	2915.7	2615.6	2444.9	2424.8
62.5°	2135.2	2164.1	2377.1	2846.5	3424.9	3755.6	3375.0	2808.0	2347.8	2125.2	2112.0
65°	1530.2	1580.5	1815.9	2429.2	3406.5	4123.0	3347.0	2409.5	1833.4	1576.6	1557.8
67.5°	694.2	745.4	945.3	1663.2	2961.1	4023.3	2954.1	1680.7	992.6	748.1	737.1
70°	251.5	260.3	324.6	665.8	1892.4	3205.7	1973.4	670.6	345.2	277.3	273.8
72.5°	152.2	153.5	167.1	238.4	657.5	1946.2	685.5	246.3	170.6	151.4	154.0
75°	96.7	95.8	119.0	145.7	233.2	656.6	244.5	145.7	118.6	108.1	108.9
77.5°	69.6	71.7	85.3	108.9	147.0	222.7	144.4	104.1	85.3	70.0	71.3
80°	52.1	53.4	62.1	84.9	103.2	138.7	91.9	77.0	64.3	43.7	45.1
82.5°	37.6	37.6	40.7	61.7	63.0	74.8	49.9	54.2	42.4	31.1	31.1
85°	22.3	21.9	25.4	36.7	32.8	27.6	22.7	33.2	26.7	19.2	18.8
87.5°	7.9	8.3	7.9	10.5	8.7	7.4	7.0	9.2	7.4	6.6	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)