

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: P946847

Luminaire Tested: **GALN-SB2B-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946847
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-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11287 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

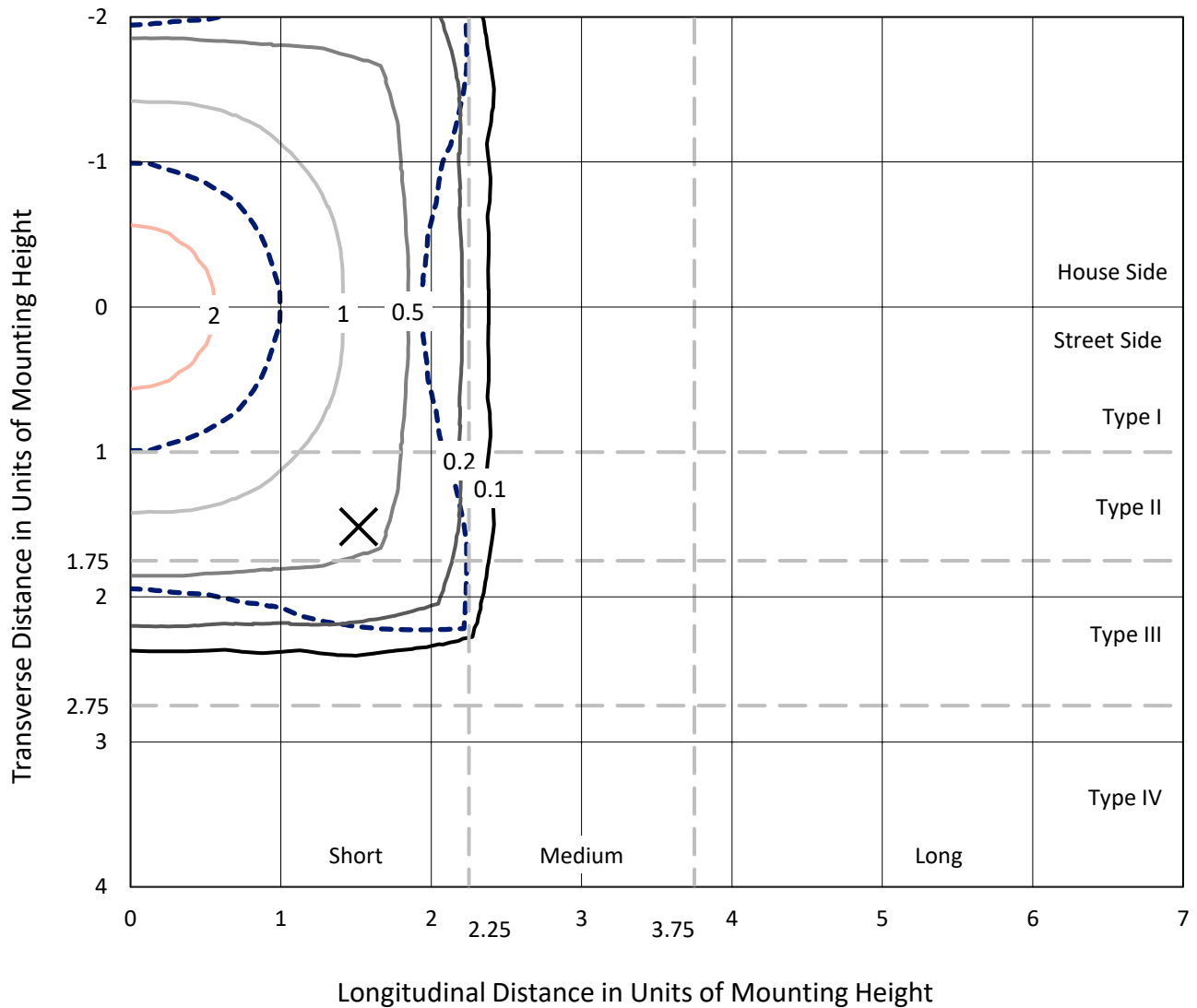
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

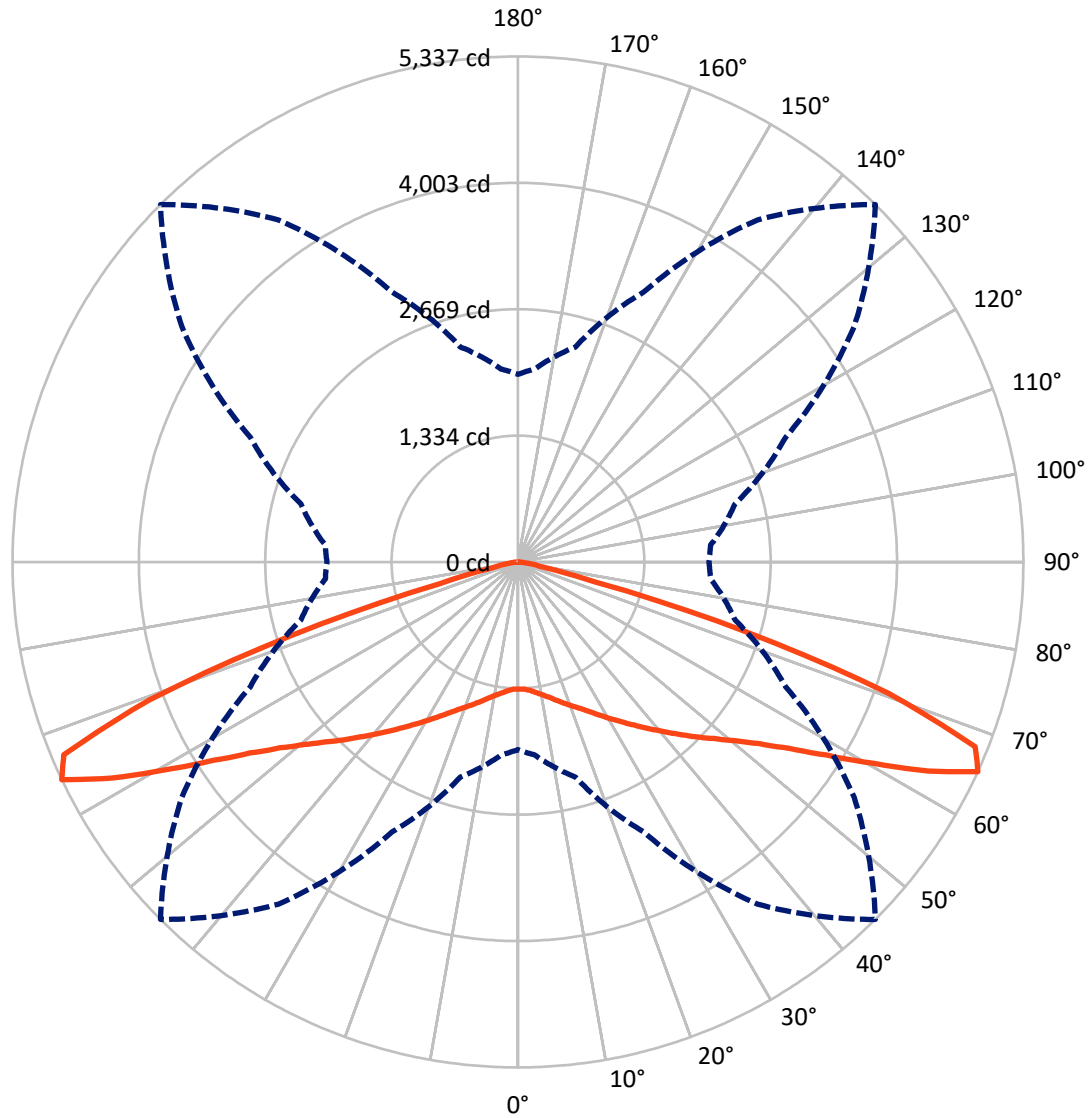
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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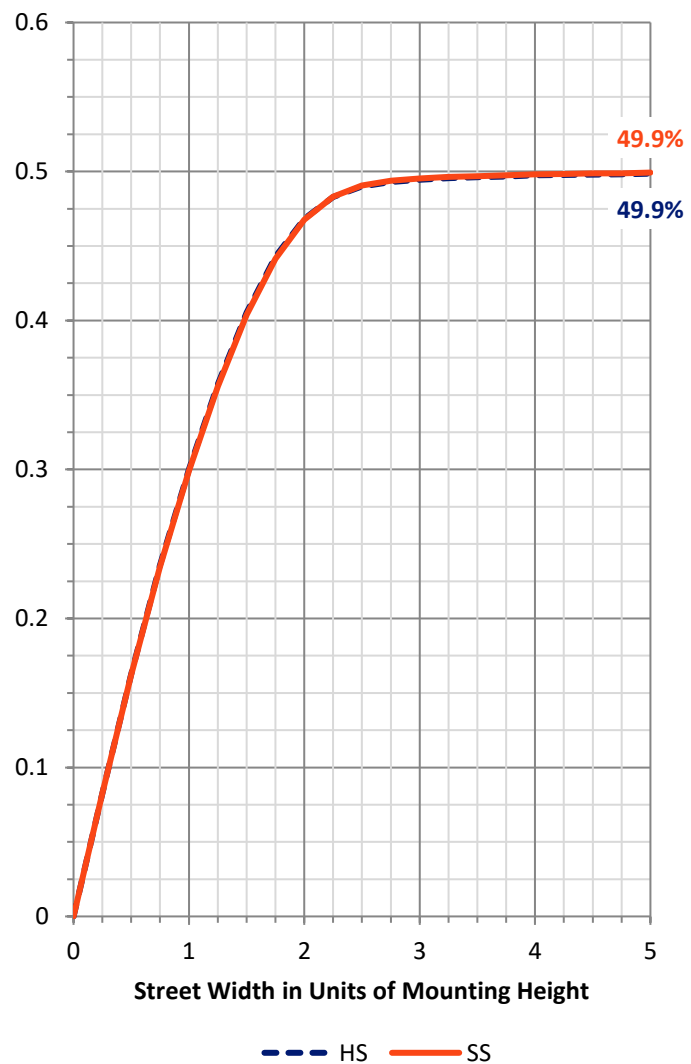
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5643.5	0.0	5643.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5643.5	0.0	5643.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11287.0	0.0	11287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.2
10°-20°	432.6	3.8
20°-30°	816.8	7.2
30°-40°	1337.4	11.8
40°-50°	2073.7	18.4
50°-60°	3063.2	27.1
60°-70°	2915.9	25.8
70°-80°	470.5	4.2
80°-90°	44.3	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°	11287.0	100.0
0°-180°	11287.0	100.0

Coefficient of Utilization



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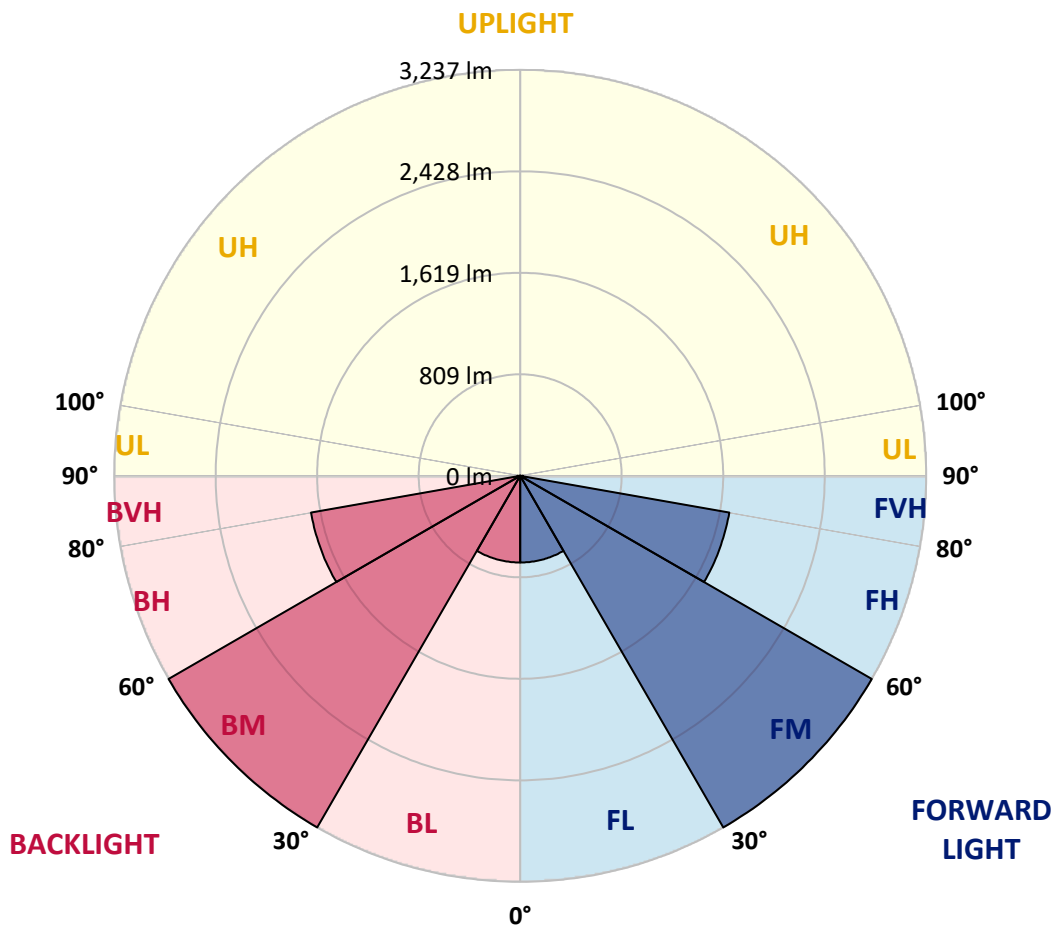
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.9	6.1			
FM (30°-60°)	3237.2	28.7			
FH (60°-80°)	1693.2	15.0			G1/1800
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	690.9	6.1	B2/1000		
BM (30°-60°)	3237.2	28.7	B3/5000		
BH (60°-80°)	1693.2	15.0	B3/2500		G1/1800
BVH (80°-90°)	22.2	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°	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3
2.5°	1352.3	1347.8	1351.2	1348.4	1346.1	1343.8	1345.0	1348.9	1350.6	1351.2
5°	1370.4	1366.5	1368.2	1368.2	1364.2	1363.1	1363.7	1366.5	1369.9	1369.9
7.5°	1399.9	1395.9	1399.9	1397.6	1394.2	1393.1	1392.5	1394.8	1399.9	1399.9
10°	1435.6	1431.0	1433.3	1432.2	1428.2	1426.5	1425.9	1429.3	1433.9	1433.3
12.5°	1474.6	1469.6	1472.4	1469.0	1467.9	1466.2	1466.2	1465.6	1468.4	1466.2
15°	1518.3	1514.9	1516.0	1513.7	1515.4	1514.3	1509.8	1507.5	1508.6	1505.2
17.5°	1569.8	1561.9	1565.8	1564.7	1564.7	1567.0	1559.6	1556.8	1559.0	1555.6
20°	1629.2	1621.3	1623.0	1620.8	1617.9	1620.2	1611.1	1613.4	1615.1	1612.8
22.5°	1694.4	1684.2	1683.6	1684.7	1678.5	1679.1	1672.9	1678.5	1681.9	1675.7
25°	1761.2	1750.4	1757.8	1755.0	1747.0	1748.7	1744.2	1749.9	1752.7	1744.8
27.5°	1832.0	1824.6	1831.4	1833.1	1823.5	1830.3	1823.5	1828.6	1831.4	1819.5
30°	1914.7	1907.3	1913.5	1918.1	1906.7	1917.5	1911.8	1915.2	1915.8	1901.6
32.5°	2004.7	1993.4	2009.2	2011.5	1999.0	2012.1	2004.7	2009.2	2012.1	1992.8
35°	2114.6	2100.4	2118.5	2115.7	2104.9	2115.7	2108.9	2115.7	2122.5	2099.3
37.5°	2232.9	2218.2	2237.5	2232.4	2222.2	2229.5	2225.6	2230.1	2240.9	2215.9
40°	2363.2	2345.1	2371.1	2362.0	2352.4	2351.3	2353.5	2356.4	2370.5	2342.8
42.5°	2502.5	2483.2	2522.3	2508.1	2494.6	2485.5	2492.9	2498.5	2512.1	2481.0
45°	2661.6	2639.5	2690.5	2673.5	2652.0	2633.3	2645.2	2653.7	2673.5	2636.1
47.5°	2837.2	2812.3	2866.6	2861.5	2826.4	2785.6	2812.8	2837.2	2851.9	2806.6
50°	3008.8	2989.5	3060.9	3067.1	3024.0	2966.9	3004.8	3041.6	3045.6	2986.1
52.5°	3169.6	3150.3	3254.0	3293.0	3254.5	3186.6	3226.8	3264.2	3234.1	3157.1
55°	3298.1	3282.3	3414.2	3515.0	3528.1	3472.0	3495.8	3494.6	3396.1	3277.7
57.5°	3329.3	3327.0	3493.5	3707.0	3842.9	3849.7	3802.7	3682.7	3470.3	3311.2
60°	3187.7	3201.9	3430.7	3807.2	4169.7	4320.3	4117.0	3774.4	3385.9	3165.1
62.5°	2764.1	2801.5	3077.3	3684.9	4433.6	4861.7	4369.0	3635.1	3039.3	2751.1
65°	1980.9	2046.0	2350.7	3144.7	4409.8	5337.4	4332.8	3119.2	2373.4	2040.9
67.5°	898.7	965.0	1223.8	2153.1	3833.3	5208.3	3824.2	2175.7	1284.9	968.4
70°	325.6	336.9	420.2	861.9	2449.8	4149.9	2554.6	868.1	446.8	359.0
72.5°	197.1	198.8	216.3	308.6	851.2	2519.5	887.4	318.8	220.9	195.9
75°	125.2	124.0	154.0	188.6	301.8	850.0	316.6	188.6	153.5	139.9
77.5°	90.0	92.9	110.4	141.0	190.3	288.2	186.9	134.8	110.4	90.6
80°	67.4	69.1	80.4	109.9	133.6	179.5	118.9	99.7	83.2	56.6
82.5°	48.7	48.7	52.7	79.8	81.5	96.8	64.6	70.2	54.9	40.2
85°	28.9	28.3	32.8	47.6	42.5	35.7	29.4	43.0	34.5	24.9
87.5°	10.2	10.8	10.2	13.6	11.3	9.6	9.1	11.9	9.6	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1343.3
1351.2
1369.9
1398.2
1432.2
1467.3
1505.8
1558.5
1617.9
1681.9
1753.8
1828.6
1910.1
2005.8
2113.4
2231.2
2351.8
2497.4
2655.4
2821.9
2993.5
3159.4
3281.7
3301.0
3139.0
2734.1
2016.6
954.2
354.5
199.3
141.0
92.3
58.3
40.2
24.4
7.9
0.0

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