

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: P946850

Luminaire Tested: **GALN-SB2B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
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-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11092 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

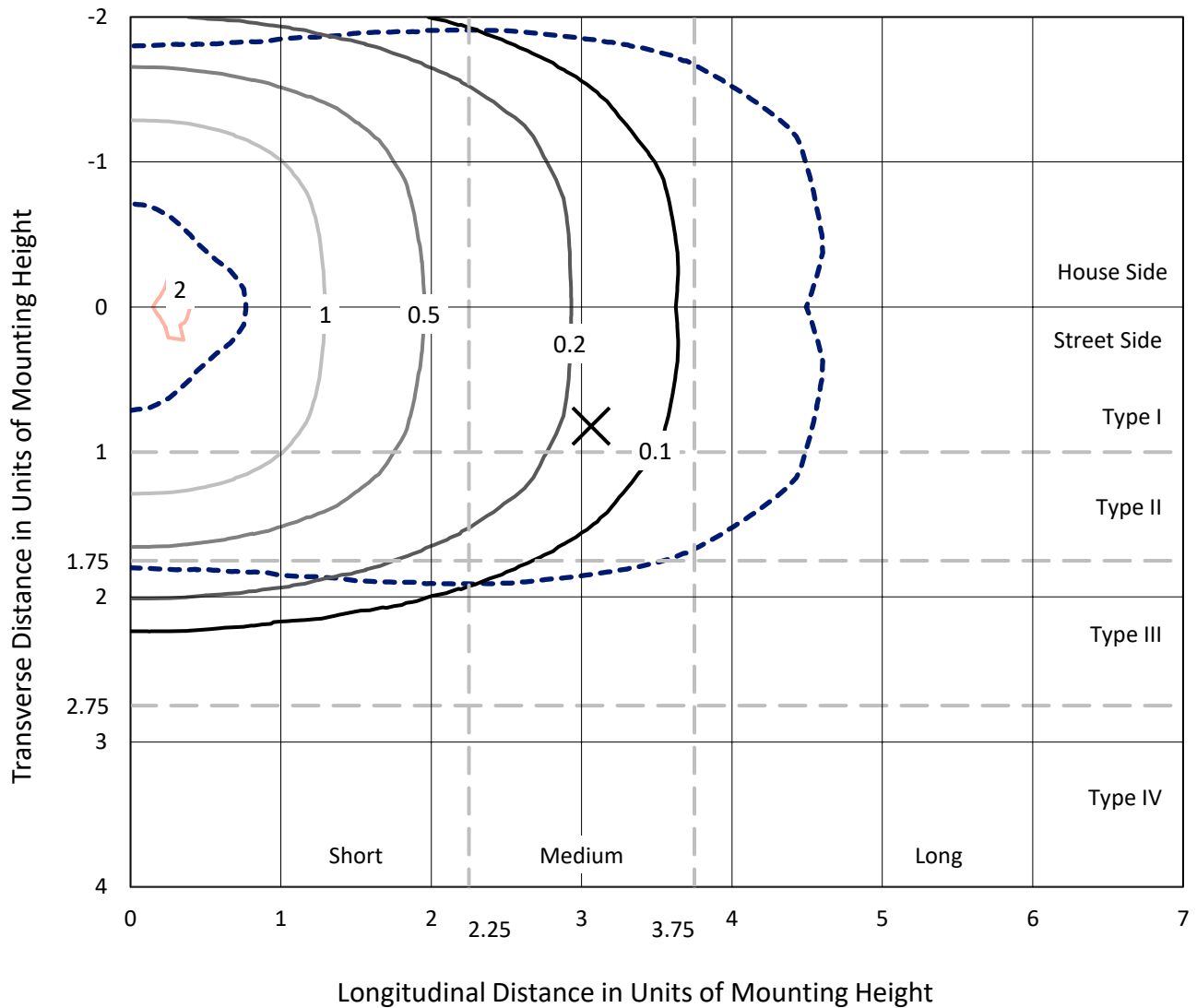
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

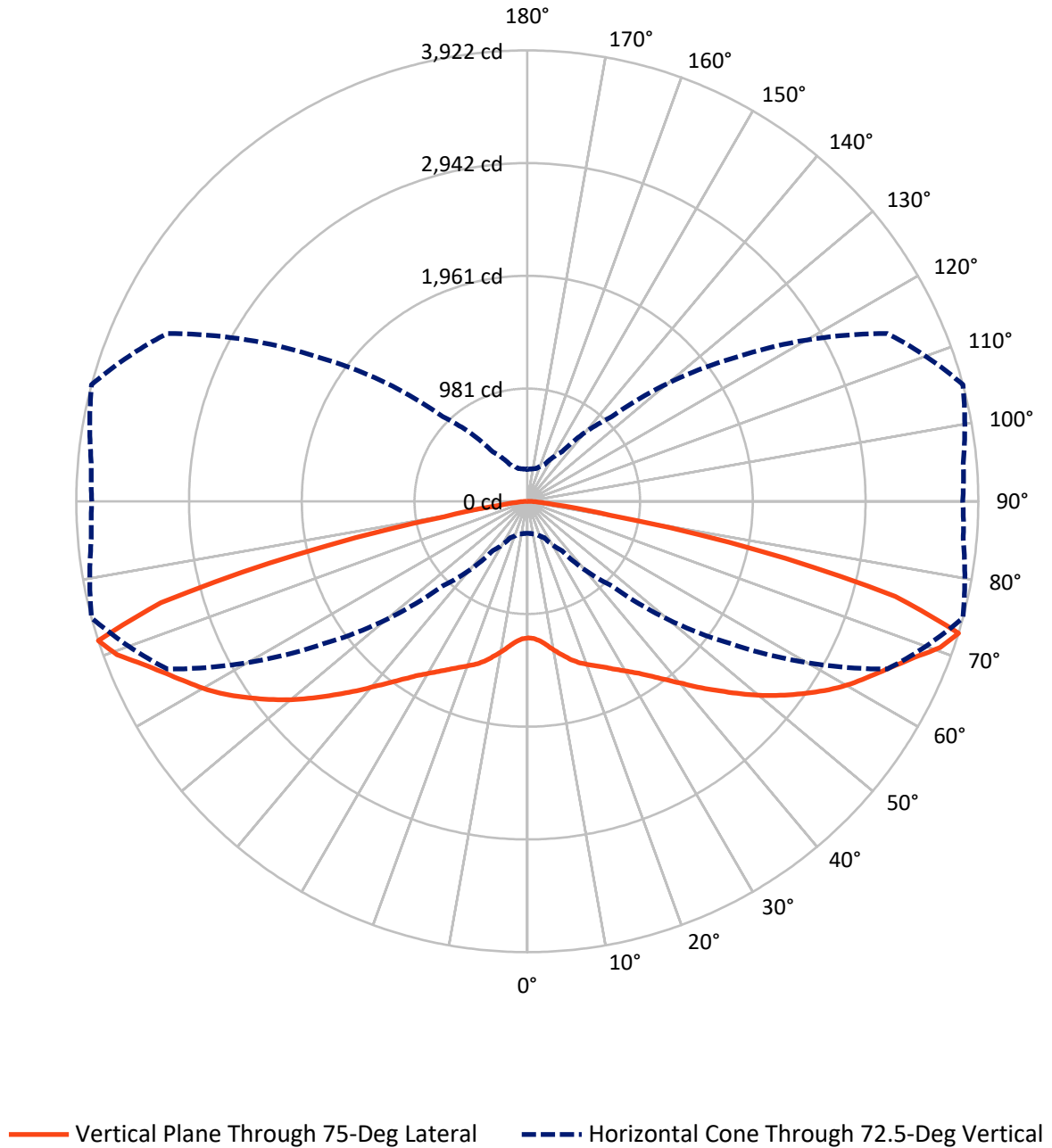
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5546.0	0.0	5546.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5546.0	0.0	5546.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11092.0	0.0	11092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.0
10°-20°	383.9	3.5
20°-30°	741.8	6.7
30°-40°	1252.5	11.3
40°-50°	1986.3	17.9
50°-60°	2659.5	24.0
60°-70°	2531.0	22.8
70°-80°	1320.7	11.9
80°-90°	100.0	0.9
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°	11092.0	100.0
0°-180°	11092.0	100.0

Coefficient of Utilization



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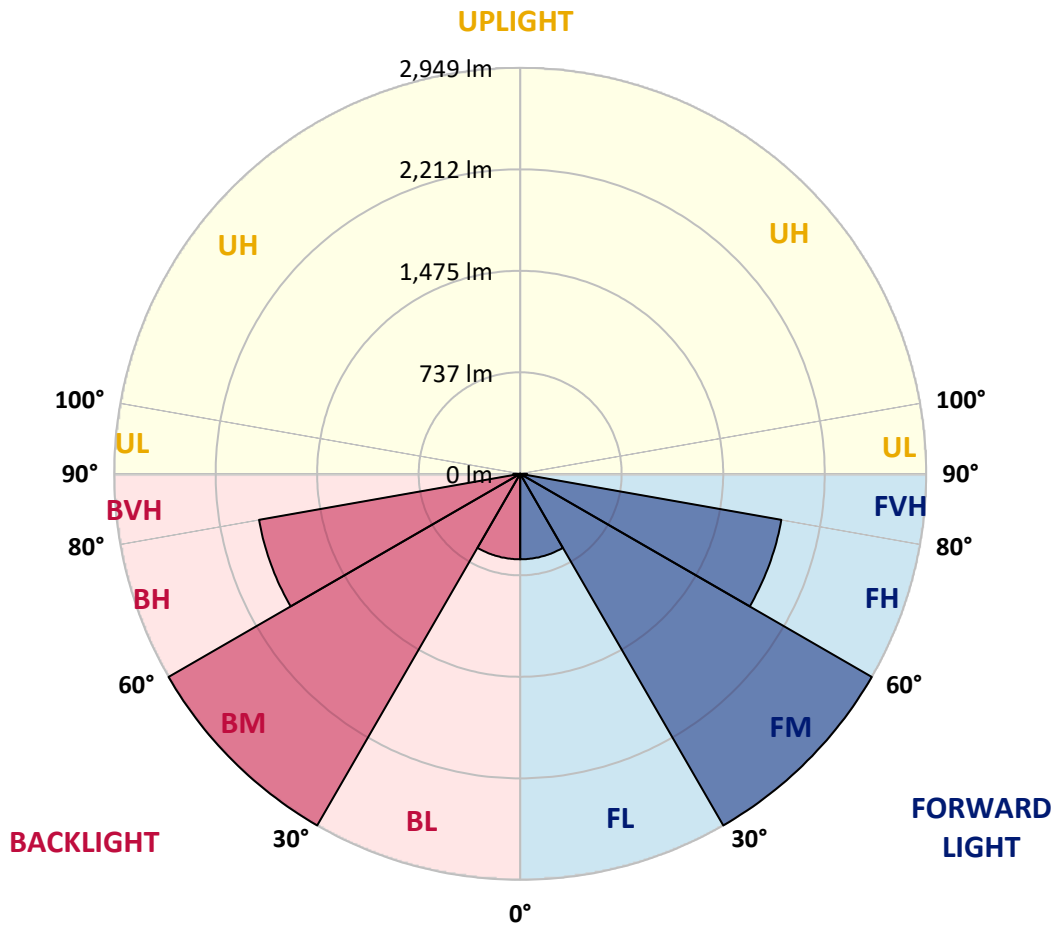
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.0	5.6			
FM (30°-60°)	2949.2	26.6			
FH (60°-80°)	1925.8	17.4			G2/5000
FVH (80°-90°)	50.0	0.5			G1/100
BL (0°-30°)	621.0	5.6	B2/1000		
BM (30°-60°)	2949.2	26.6	B3/5000		
BH (60°-80°)	1925.8	17.4	B3/2500		G3/2500
BVH (80°-90°)	50.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1188.2	1187.0	1188.2	1189.3	1188.7	1188.7	1191.5	1193.2	1196.6	1196.1
5°	1180.2	1179.7	1184.2	1189.3	1193.2	1200.0	1208.5	1214.8	1222.7	1224.4
7.5°	1176.3	1174.6	1182.5	1191.5	1204.0	1221.0	1237.4	1254.4	1268.0	1272.5
10°	1179.1	1179.7	1190.4	1207.4	1227.2	1251.0	1274.2	1303.1	1322.4	1326.9
12.5°	1192.1	1191.0	1209.1	1236.3	1263.5	1293.5	1320.7	1352.4	1373.3	1384.1
15°	1215.9	1213.6	1239.1	1279.3	1319.0	1354.1	1376.2	1406.2	1430.5	1444.1
17.5°	1244.2	1245.4	1278.8	1330.9	1383.0	1422.6	1443.6	1458.9	1477.5	1489.4
20°	1294.1	1296.3	1333.7	1395.4	1454.9	1500.2	1517.2	1511.5	1516.6	1525.7
22.5°	1360.9	1362.0	1403.9	1470.7	1533.0	1582.9	1594.2	1571.0	1556.8	1563.1
25°	1438.5	1445.8	1487.7	1556.3	1620.3	1667.8	1672.9	1637.8	1602.7	1604.4
27.5°	1533.0	1539.8	1582.3	1650.3	1715.4	1756.7	1756.2	1709.2	1657.6	1644.6
30°	1635.5	1642.9	1686.5	1756.7	1817.3	1853.6	1845.7	1789.6	1716.0	1691.6
32.5°	1757.3	1761.8	1806.0	1876.2	1932.3	1961.2	1944.8	1875.7	1783.9	1756.2
35°	1904.6	1911.3	1944.2	2010.5	2059.7	2083.5	2055.8	1974.2	1871.1	1840.0
37.5°	2072.8	2068.2	2105.6	2164.5	2205.3	2220.0	2182.1	2085.2	1970.8	1934.0
40°	2248.3	2246.0	2286.8	2343.5	2365.5	2374.6	2318.5	2212.6	2085.8	2046.1
42.5°	2407.5	2405.8	2460.7	2523.5	2550.2	2540.0	2469.2	2348.0	2218.9	2173.6
45°	2534.9	2532.6	2600.0	2688.3	2740.5	2723.5	2628.3	2497.5	2353.7	2306.6
47.5°	2632.8	2634.0	2706.5	2815.8	2907.0	2913.2	2790.9	2649.8	2502.0	2448.8
50°	2703.6	2707.0	2784.6	2905.8	3030.4	3085.3	2956.8	2806.1	2655.5	2595.5
52.5°	2721.2	2727.4	2820.9	2963.0	3109.7	3214.5	3125.6	2956.2	2801.0	2743.8
55°	2627.8	2640.2	2758.6	2958.5	3158.4	3299.4	3273.9	3108.6	2947.7	2888.8
57.5°	2413.1	2430.7	2568.9	2829.9	3147.6	3357.7	3388.9	3254.7	3094.4	3037.8
60°	2112.4	2133.3	2265.9	2550.7	2995.9	3379.3	3469.9	3396.8	3229.2	3174.3
62.5°	1658.8	1686.0	1844.5	2178.7	2675.3	3279.0	3539.0	3525.4	3350.4	3281.9
65°	1064.1	1093.0	1260.1	1654.8	2247.7	2972.1	3560.5	3650.5	3478.4	3382.7
67.5°	641.6	654.7	737.4	1003.0	1642.9	2509.4	3378.1	3789.3	3627.9	3509.0
70°	410.6	417.9	467.2	589.0	928.8	1830.9	2926.2	3815.3	3809.1	3638.6
72.5°	278.6	280.9	293.9	348.9	525.6	1040.3	2158.3	3454.0	3922.4	3805.7
75°	203.9	216.3	237.3	246.9	298.5	519.9	1236.9	2426.7	3305.6	3356.6
77.5°	151.8	152.3	181.2	192.6	212.9	276.9	523.3	1354.7	2052.4	2154.9
80°	128.6	121.8	121.2	155.2	160.3	172.7	233.9	467.8	735.1	445.7
82.5°	107.0	99.7	90.0	121.2	109.3	105.9	101.4	190.3	233.9	115.0
85°	74.8	71.4	68.0	79.3	62.3	53.2	48.7	88.9	98.5	48.7
87.5°	32.3	33.4	34.0	35.1	26.1	18.7	18.7	24.9	24.9	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1188.2
1195.5
1224.4
1273.7
1331.4
1388.6
1449.2
1495.1
1532.5
1567.6
1607.2
1648.6
1694.4
1763.0
1844.5
1940.8
2059.2
2184.9
2317.4
2464.7
2613.6
2758.6
2905.3
3050.8
3186.1
3289.8
3394.6
3518.0
3637.5
3787.6
3233.2
1922.1
337.0
98.0
43.0
14.2
0.0

OF REPORT)