

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: P956846

Luminaire Tested: **GALN-SB9B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956846
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-SB9B-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 50519 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

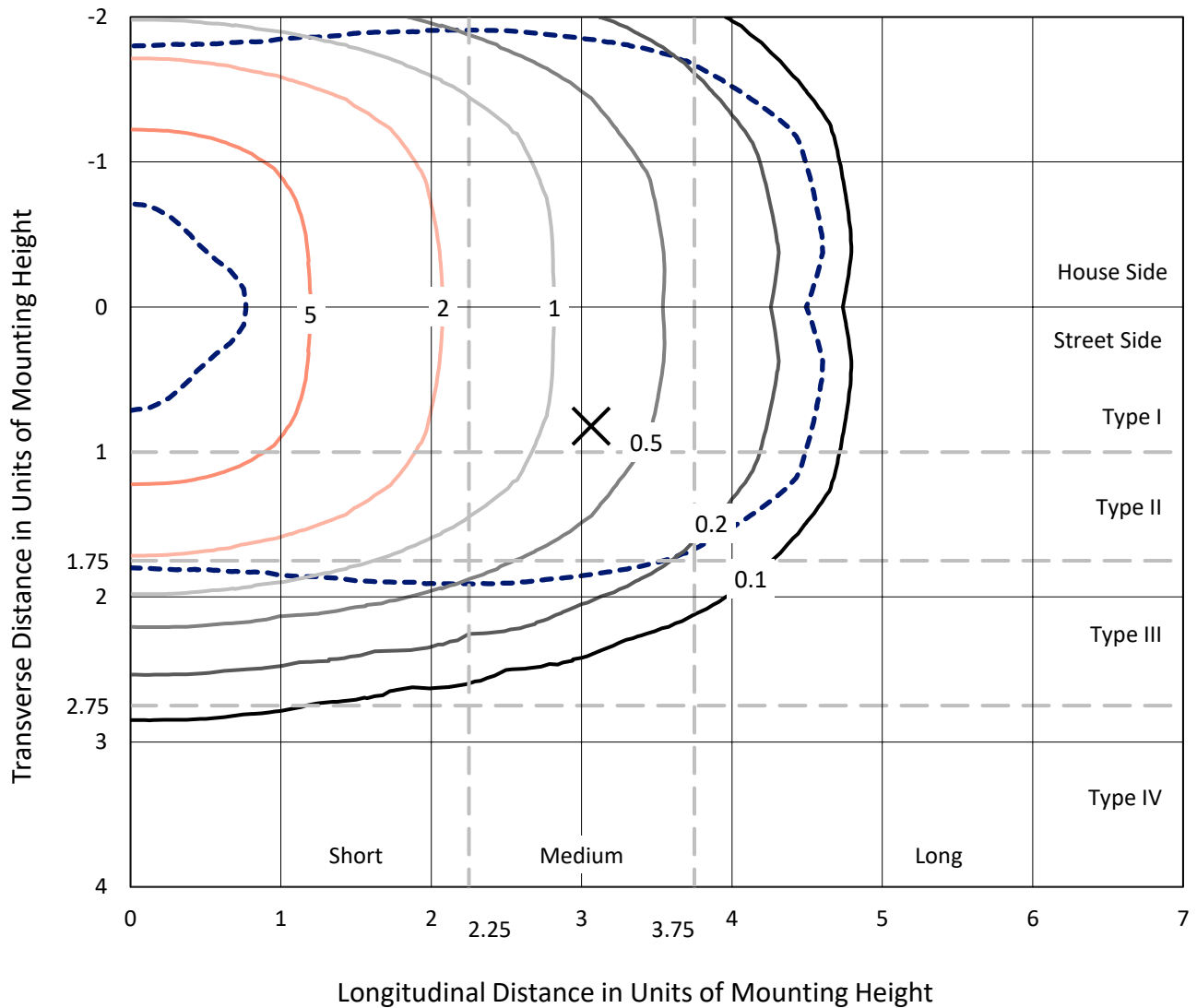
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

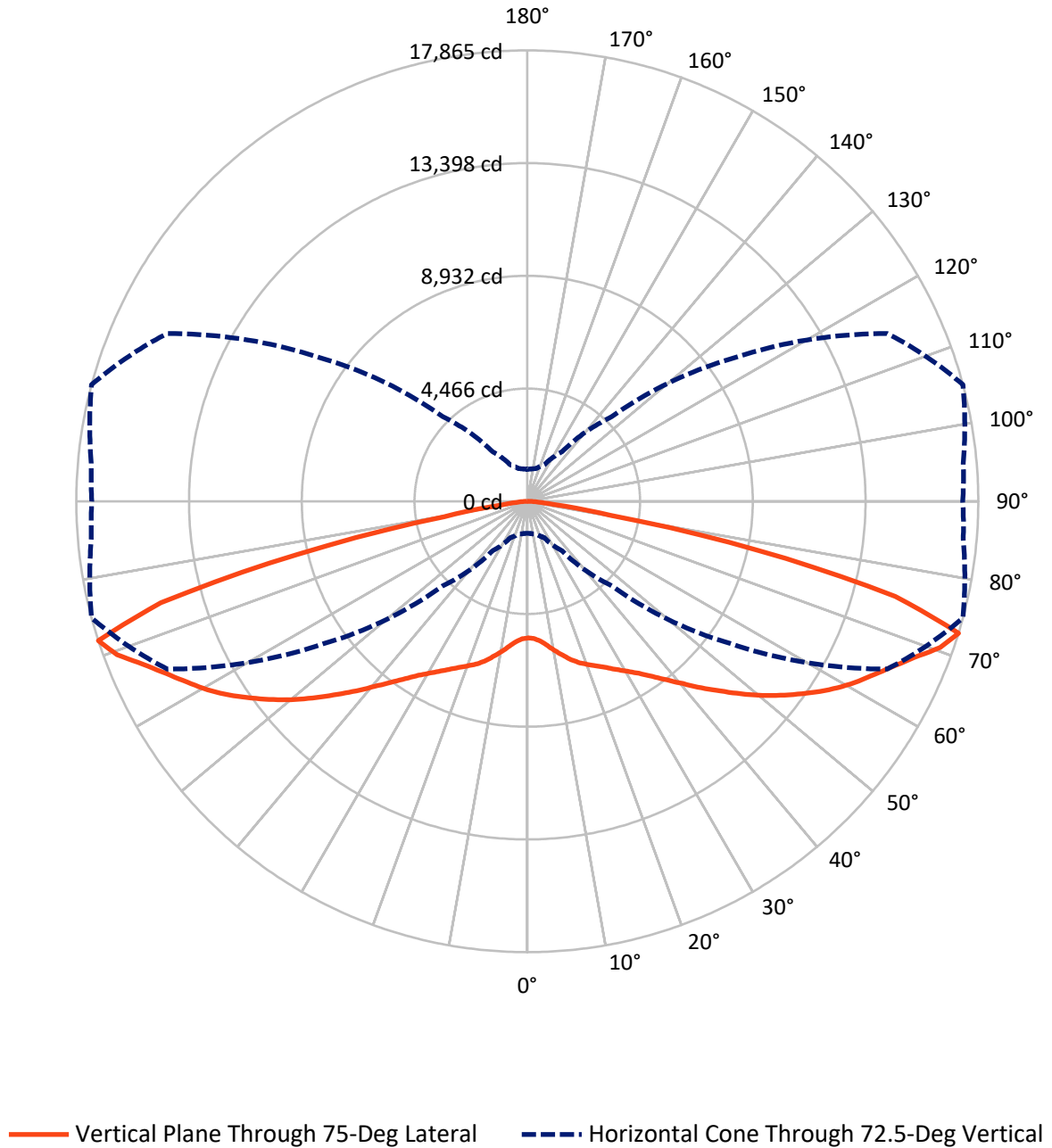
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	25259.5	0.0	25259.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25259.5	0.0	25259.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50519.0	0.0	50519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	1.0
10°-20°	1748.4	3.5
20°-30°	3378.4	6.7
30°-40°	5704.6	11.3
40°-50°	9046.9	17.9
50°-60°	12112.7	24.0
60°-70°	11527.4	22.8
70°-80°	6015.2	11.9
80°-90°	455.3	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°	50519.0	100.0
0°-180°	50519.0	100.0

Coefficient of Utilization



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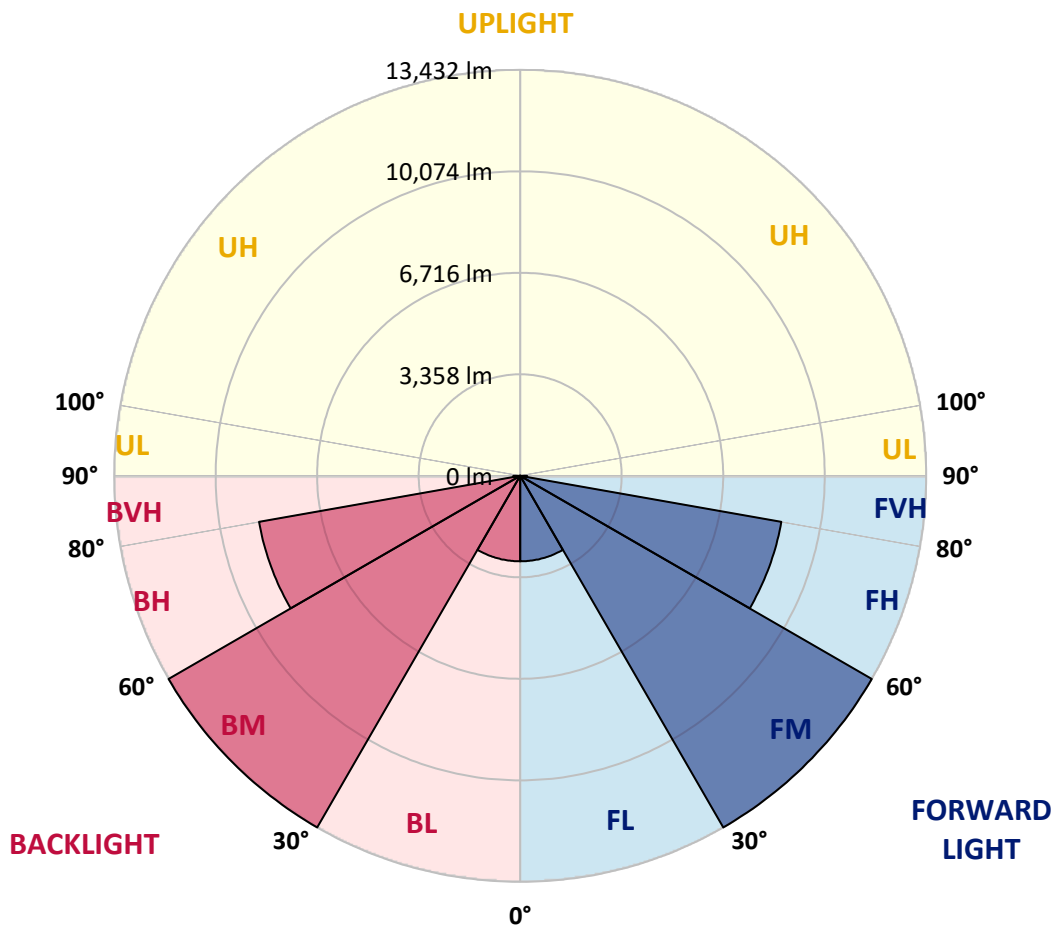
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.4	5.6			
FM (30°-60°)	13432.1	26.6			
FH (60°-80°)	8771.3	17.4			G4/12000
FVH (80°-90°)	227.7	0.5			G3/500
BL (0°-30°)	2828.4	5.6	B4/5000		
BM (30°-60°)	13432.1	26.6	B5		
BH (60°-80°)	8771.3	17.4	B5		G5
BVH (80°-90°)	227.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5411.5	5411.5	5411.5	5411.5	5411.5	5411.5	5411.5	5411.5	5411.5	5411.5
2.5°	5411.5	5406.3	5411.5	5416.6	5414.1	5414.1	5427.0	5434.7	5450.2	5447.6
5°	5375.4	5372.8	5393.4	5416.6	5434.7	5465.7	5504.3	5532.7	5568.8	5576.6
7.5°	5357.3	5349.6	5385.7	5427.0	5483.7	5561.1	5635.9	5713.3	5775.2	5795.8
10°	5370.2	5372.8	5421.8	5499.2	5589.5	5697.8	5803.6	5935.1	6022.8	6043.4
12.5°	5429.5	5424.4	5506.9	5630.7	5754.5	5891.2	6015.1	6159.5	6254.9	6303.9
15°	5537.9	5527.6	5643.6	5826.8	6007.3	6167.2	6267.8	6404.5	6515.5	6577.4
17.5°	5666.8	5672.0	5824.2	6061.5	6298.8	6479.3	6574.8	6644.4	6729.5	6783.7
20°	5893.8	5904.1	6074.4	6355.5	6626.4	6832.7	6910.1	6884.3	6907.5	6948.8
22.5°	6198.2	6203.4	6394.2	6698.6	6982.3	7209.3	7260.9	7155.1	7090.7	7119.0
25°	6551.6	6585.1	6776.0	7088.1	7379.5	7596.2	7619.4	7459.5	7299.6	7307.3
27.5°	6982.3	7013.3	7206.7	7516.2	7812.9	8001.2	7998.6	7784.5	7549.8	7490.5
30°	7449.2	7482.7	7681.3	8001.2	8277.2	8442.2	8406.1	8150.8	7815.4	7704.5
32.5°	8003.7	8024.4	8225.6	8545.4	8800.8	8932.3	8857.5	8542.8	8125.0	7998.6
35°	8674.4	8705.3	8854.9	9156.7	9381.1	9489.5	9363.1	8991.6	8522.2	8380.3
37.5°	9440.4	9419.8	9590.0	9858.3	10044.0	10111.1	9938.3	9497.2	8976.2	8808.5
40°	10240.0	10229.7	10415.4	10673.4	10774.0	10815.2	10559.9	10077.5	9499.8	9319.2
42.5°	10964.8	10957.1	11207.3	11493.6	11614.8	11568.4	11246.0	10694.0	10105.9	9899.6
45°	11545.2	11534.9	11841.8	12244.2	12481.5	12404.1	11970.8	11375.0	10719.8	10505.7
47.5°	11991.4	11996.6	12326.7	12824.6	13239.8	13268.2	12711.1	12068.8	11395.6	11153.1
50°	12313.8	12329.3	12682.7	13234.7	13802.1	14052.3	13466.8	12780.7	12094.6	11821.2
52.5°	12393.8	12422.2	12847.8	13495.2	14163.2	14640.4	14235.5	13464.2	12757.5	12497.0
55°	11968.2	12025.0	12564.0	13474.6	14385.1	15027.3	14911.3	14158.1	13425.5	13157.3
57.5°	10990.6	11070.6	11700.0	12889.0	14336.1	15293.0	15434.9	14823.6	14093.6	13835.7
60°	9621.0	9716.4	10320.0	11617.4	13644.8	15391.0	15803.7	15471.0	14707.5	14457.3
62.5°	7554.9	7678.7	8401.0	9922.8	12184.9	14934.5	16118.4	16056.5	15259.5	14947.4
65°	4846.6	4978.2	5739.1	7536.9	10237.5	13536.5	16216.4	16626.5	15842.4	15406.5
67.5°	2922.4	2981.7	3358.3	4568.0	7482.7	11429.1	15385.9	17258.5	16523.4	15981.7
70°	1870.0	1903.6	2128.0	2682.5	4230.1	8339.1	13327.5	17377.1	17348.7	16572.4
72.5°	1269.0	1279.4	1338.7	1588.9	2393.6	4738.3	9829.9	15731.5	17864.6	17333.3
75°	928.6	985.3	1080.8	1124.6	1359.3	2367.8	5633.3	11052.5	15055.7	15287.8
77.5°	691.3	693.8	825.4	877.0	969.8	1261.3	2383.3	6169.8	9347.6	9814.5
80°	585.5	554.6	552.0	706.7	730.0	786.7	1065.3	2130.5	3348.0	2030.0
82.5°	487.5	454.0	410.1	552.0	497.8	482.3	461.7	866.7	1065.3	523.6
85°	340.5	325.0	309.5	361.1	283.7	242.5	221.8	405.0	448.8	221.8
87.5°	147.0	152.2	154.8	159.9	118.7	85.1	85.1	113.5	113.5	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5411.5
5445.0
5576.6
5801.0
6064.1
6324.6
6600.6
6809.5
6979.7
7139.7
7320.2
7508.5
7717.4
8029.5
8401.0
8839.5
9378.5
9951.2
10554.7
11225.4
11903.7
12564.0
13232.1
13895.0
14511.5
14983.5
15460.7
16023.0
16567.2
17250.7
14725.5
8754.3
1534.7
446.2
196.0
64.5
0.0

OF REPORT)