

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: P943753

Luminaire Tested: **GALN-SB8B-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43086 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

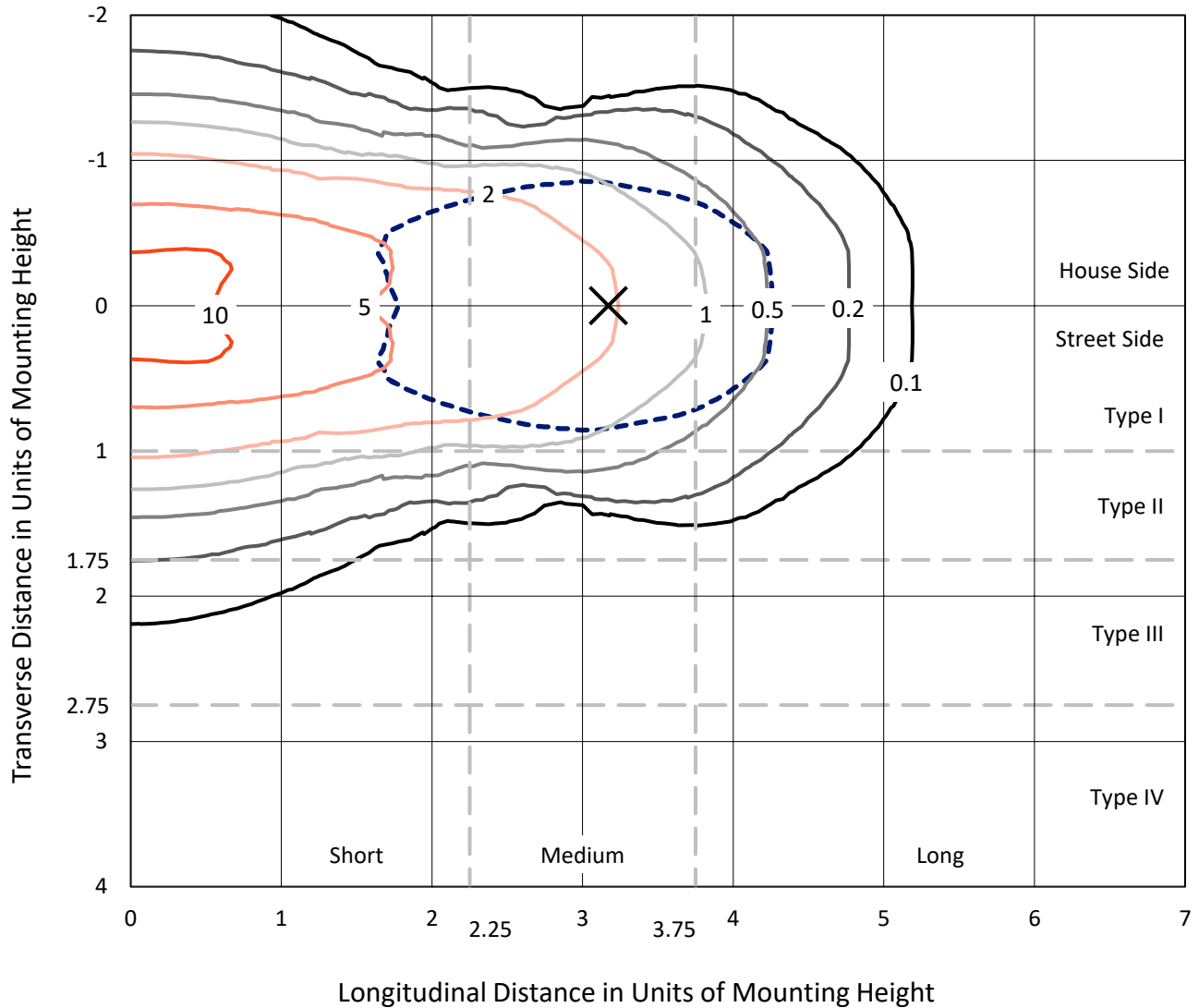
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

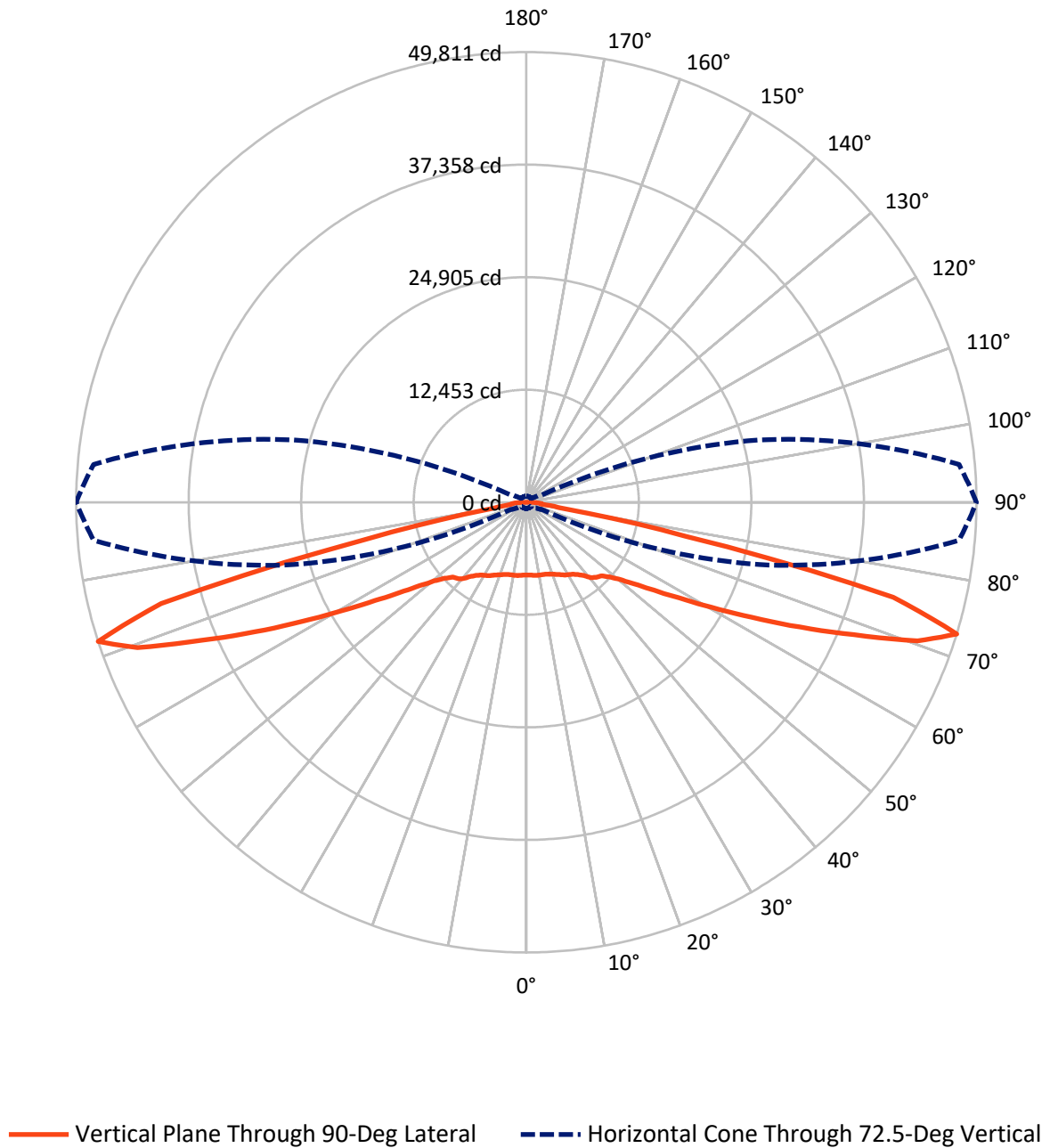
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21543.0	0.0	21543.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21543.0	0.0	21543.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43086.0	0.0	43086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.6	1.8
10°-20°	2386.9	5.5
20°-30°	3980.0	9.2
30°-40°	5473.7	12.7
40°-50°	6684.9	15.5
50°-60°	7731.8	17.9
60°-70°	9218.9	21.4
70°-80°	6434.1	14.9
80°-90°	395.2	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°	43086.0	100.0
0°-180°	43086.0	100.0

Coefficient of Utilization



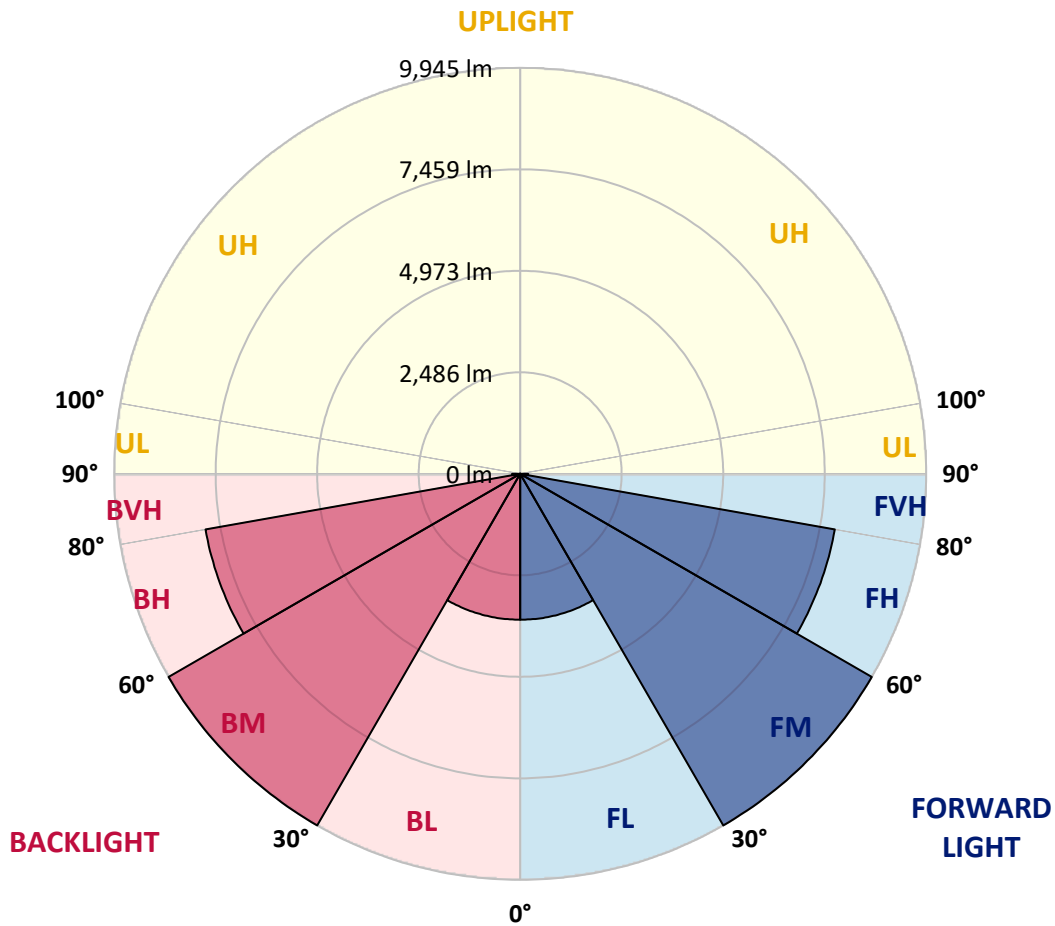
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3573.8	8.3			
FM (30°-60°)	9945.1	23.1			
FH (60°-80°)	7826.5	18.2			G4/12000
FVH (80°-90°)	197.6	0.5			G2/225
BL (0°-30°)	3573.8	8.3	B4/5000		
BM (30°-60°)	9945.1	23.1	B5		
BH (60°-80°)	7826.5	18.2	B5		G5
BVH (80°-90°)	197.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8051.1	8051.1	8051.1	8051.1	8051.1	8051.1	8051.1	8051.1	8051.1	8051.1
2.5°	8057.9	8067.1	8067.1	8060.2	8076.3	8062.5	8062.5	8055.7	8062.5	8055.7
5°	8099.2	8110.6	8115.2	8112.9	8133.5	8122.1	8122.1	8112.9	8115.2	8108.3
7.5°	8177.0	8193.0	8202.2	8213.7	8243.4	8229.7	8220.5	8193.0	8181.6	8163.3
10°	8202.2	8220.5	8250.3	8309.8	8378.5	8380.8	8353.3	8284.6	8232.0	8190.8
12.5°	8124.3	8149.5	8211.4	8332.7	8486.1	8548.0	8504.5	8390.0	8286.9	8213.7
15°	8025.9	8053.4	8147.2	8330.4	8557.1	8701.4	8696.8	8545.7	8380.8	8266.3
17.5°	7872.5	7899.9	8035.0	8291.5	8612.1	8850.2	8914.3	8758.6	8527.4	8373.9
20°	7595.4	7620.6	7808.4	8167.9	8630.4	9008.2	9175.4	9038.0	8749.5	8541.1
22.5°	7235.9	7274.8	7494.6	7954.9	8586.9	9173.1	9473.1	9379.2	9008.2	8719.7
25°	6851.2	6892.4	7148.9	7693.9	8474.7	9292.2	9825.7	9766.2	9301.3	8941.8
27.5°	6519.2	6562.7	6842.0	7435.1	8300.7	9338.0	10173.8	10203.5	9656.3	9186.8
30°	6258.1	6299.3	6597.0	7226.7	8076.3	9292.2	10478.3	10684.4	10018.0	9399.8
32.5°	5971.9	6024.6	6338.3	6972.6	7810.6	9182.3	10743.9	11204.2	10437.1	9628.8
35°	5610.1	5658.2	5987.9	6624.5	7462.6	9005.9	10966.0	11781.2	11037.0	9976.8
37.5°	5170.5	5216.3	5543.7	6189.4	7116.8	8758.6	11135.5	12431.5	11751.5	10478.3
40°	4728.5	4772.0	5078.9	5704.0	6702.4	8442.6	11195.0	13068.1	12571.2	11167.5
42.5°	4323.2	4362.1	4643.8	5225.4	6237.5	8039.6	11117.2	13622.3	13306.3	11648.4
45°	3950.0	3984.3	4233.9	4776.6	5754.4	7549.6	10883.6	14217.6	14181.0	11991.9
47.5°	3524.1	3558.4	3817.2	4341.5	5271.2	6974.8	10487.5	14803.8	15396.9	12770.4
50°	3004.3	3034.0	3299.7	3840.1	4769.7	6363.5	9937.9	15264.1	16931.1	13949.7
52.5°	2388.3	2420.4	2679.1	3219.5	4174.4	5706.3	9214.3	15564.0	18703.4	15671.7
55°	1776.9	1799.8	2024.2	2509.7	3437.0	4957.5	8307.5	15648.8	20713.9	18025.6
57.5°	1289.2	1302.9	1447.2	1809.0	2605.8	4021.0	7206.1	15428.9	23106.8	21043.6
60°	1044.2	1048.7	1092.3	1252.5	1811.3	2963.1	5875.7	14673.3	25703.4	24934.1
62.5°	948.0	948.0	959.4	1002.9	1225.1	1955.5	4266.0	13107.0	28487.9	29850.3
65°	881.6	881.6	886.2	906.8	966.3	1245.7	2692.9	10556.2	30835.0	35609.3
67.5°	822.1	824.3	822.1	828.9	863.3	920.5	1561.7	7290.8	32099.0	41576.6
70°	760.2	764.8	753.4	753.4	780.8	783.1	977.8	3998.1	31050.2	46577.6
72.5°	687.0	693.8	675.5	670.9	691.5	682.4	735.0	1918.9	26658.3	48070.6
75°	622.8	632.0	590.8	579.3	579.3	572.5	597.6	984.6	17302.0	39213.5
77.5°	565.6	583.9	517.5	480.9	471.7	451.1	487.7	602.2	7567.9	18410.3
80°	467.1	492.3	425.9	382.4	366.4	343.5	384.7	421.3	2250.9	4275.1
82.5°	348.1	359.5	302.3	272.5	258.8	242.7	288.5	293.1	732.7	1513.6
85°	222.1	226.7	185.5	160.3	153.4	146.5	183.2	160.3	279.4	1112.9
87.5°	77.9	89.3	71.0	64.1	68.7	57.2	84.7	48.1	77.9	785.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8051.1
8055.7
8108.3
8163.3
8183.9
8202.2
8248.0
8348.8
8502.2
8667.0
8868.5
9109.0
9287.6
9486.8
9818.8
10267.6
10943.1
11359.9
11602.6
12321.6
13386.4
14977.8
17157.8
19951.4
23557.9
28007.0
33278.2
39060.1
45915.9
49810.9
41943.0
18027.9
4094.2
1710.5
1616.6
973.2
0.0

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