

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: P944103

Luminaire Tested: **GALN-SB8D-927-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944103
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-SB8D-927-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49549 lumens
Efficiency: N/A
Efficacy: 84.7 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

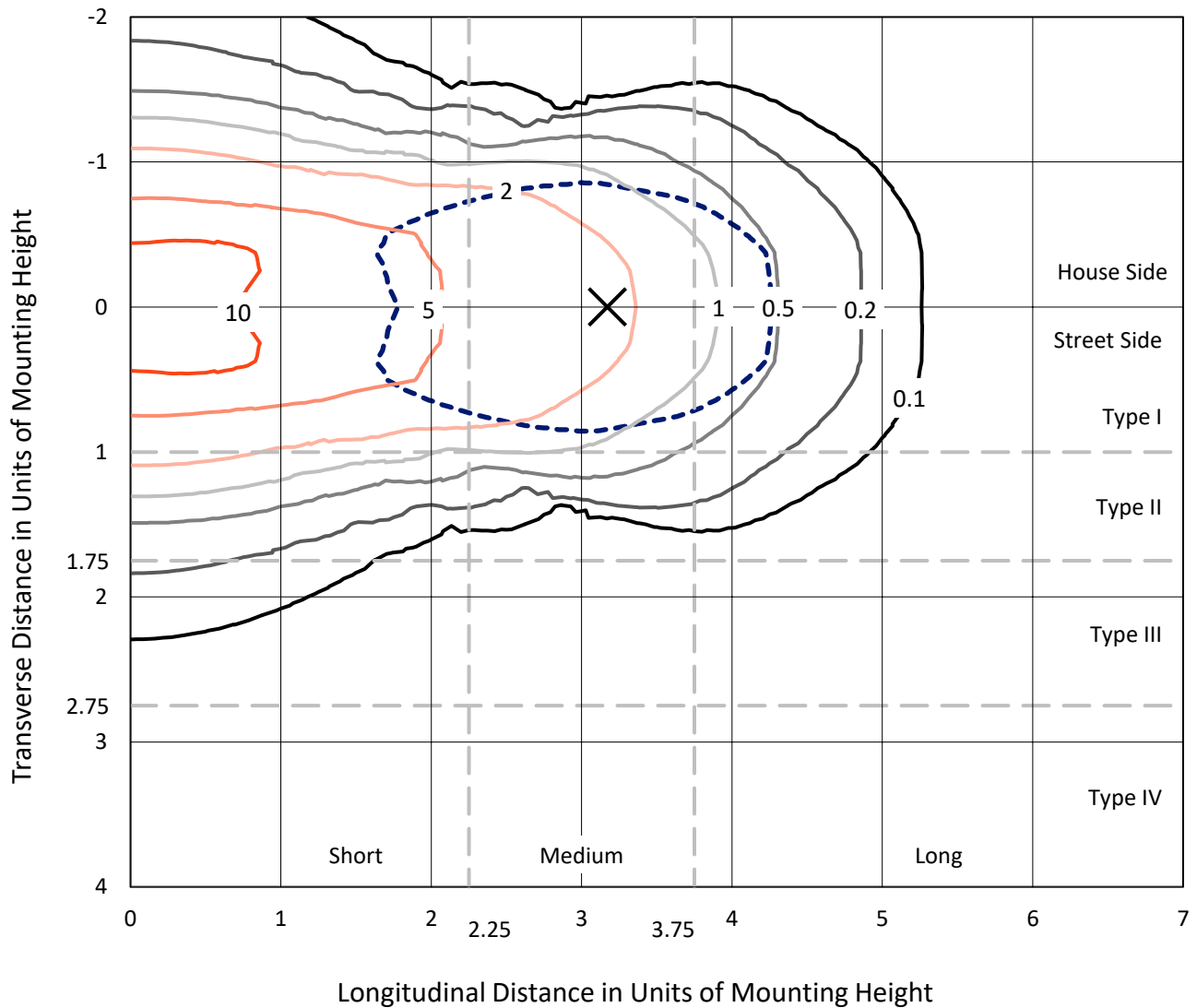
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

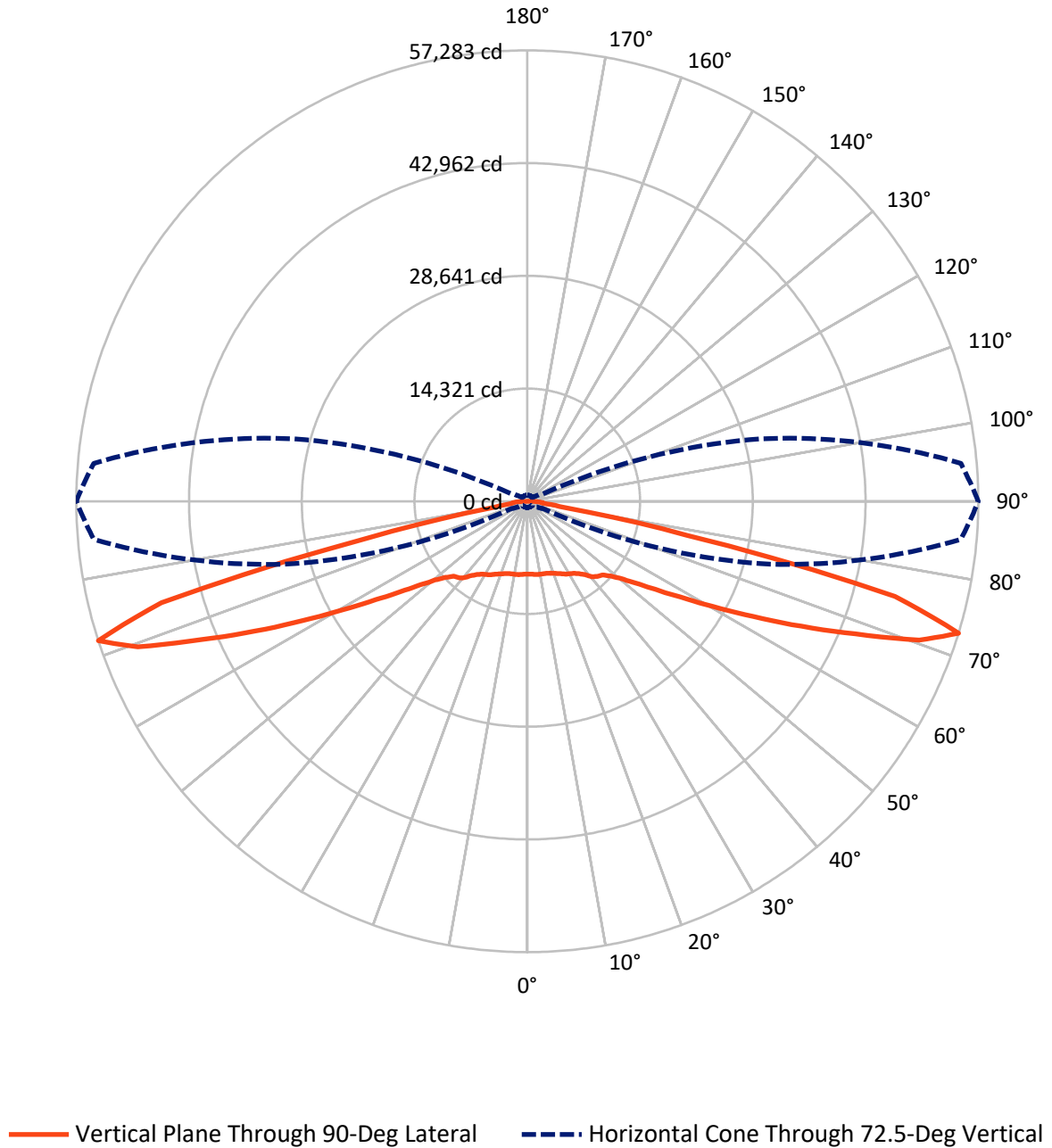
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	24774.5	0.0	24774.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24774.5	0.0	24774.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49549.0	0.0	49549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.7	1.8
10°-20°	2745.0	5.5
20°-30°	4577.0	9.2
30°-40°	6294.8	12.7
40°-50°	7687.6	15.5
50°-60°	8891.5	17.9
60°-70°	10601.7	21.4
70°-80°	7399.3	14.9
80°-90°	454.5	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°	49549.0	100.0
0°-180°	49549.0	100.0

Coefficient of Utilization



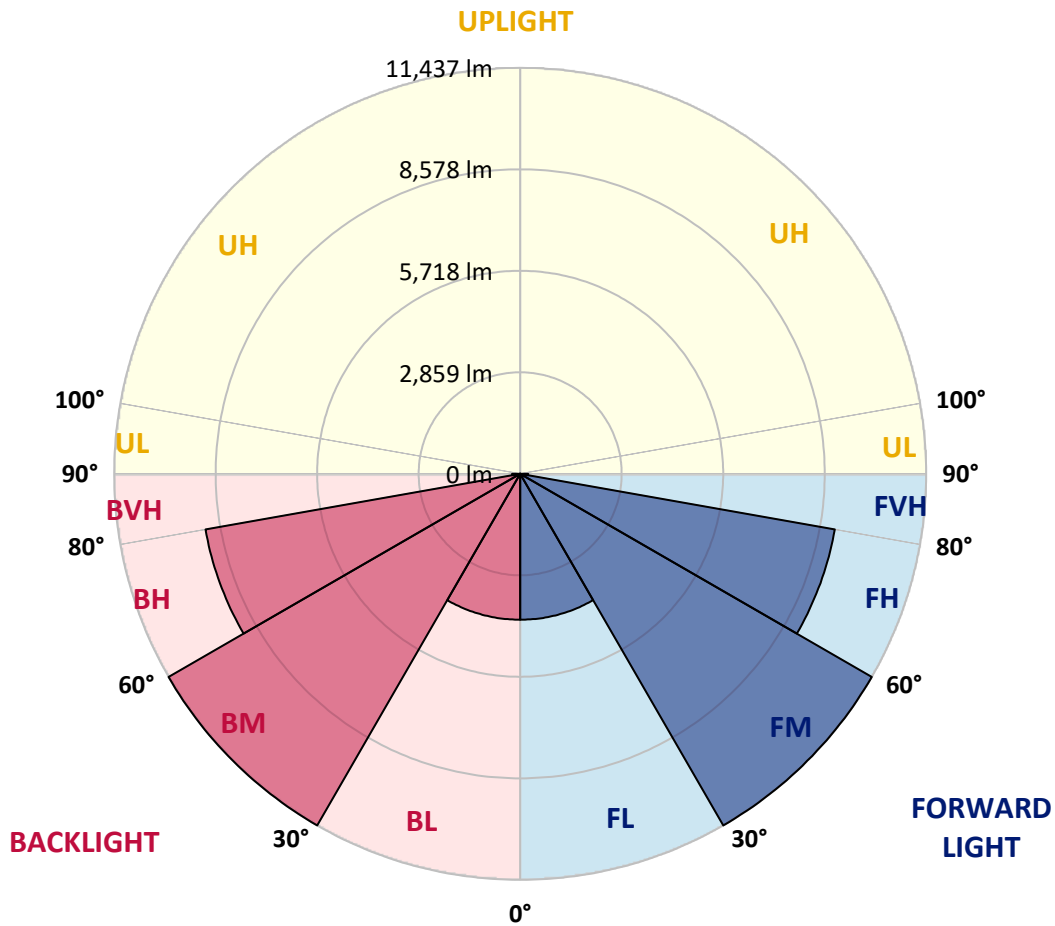
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4109.8	8.3			
FM (30°-60°)	11436.9	23.1			
FH (60°-80°)	9000.5	18.2			G4/12000
FVH (80°-90°)	227.2	0.5			G3/500
BL (0°-30°)	4109.8	8.3	B4/5000		
BM (30°-60°)	11436.9	23.1	B5		
BH (60°-80°)	9000.5	18.2	B5		G5
BVH (80°-90°)	227.2	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9258.8	9258.8	9258.8	9258.8	9258.8	9258.8	9258.8	9258.8	9258.8	9258.8
2.5°	9266.7	9277.2	9277.2	9269.3	9287.7	9271.9	9271.9	9264.0	9271.9	9264.0
5°	9314.1	9327.2	9332.5	9329.9	9353.6	9340.4	9340.4	9329.9	9332.5	9324.6
7.5°	9403.6	9422.0	9432.6	9445.7	9480.0	9464.2	9453.6	9422.0	9408.9	9387.8
10°	9432.6	9453.6	9487.9	9556.3	9635.3	9638.0	9606.4	9527.4	9466.8	9419.4
12.5°	9343.0	9372.0	9443.1	9582.7	9759.1	9830.2	9780.2	9648.5	9530.0	9445.7
15°	9229.8	9261.4	9369.4	9580.0	9840.7	10006.6	10001.3	9827.6	9638.0	9506.3
17.5°	9053.4	9085.0	9240.3	9535.3	9903.9	10177.8	10251.5	10072.4	9806.5	9630.1
20°	8734.7	8763.7	8979.6	9393.1	9925.0	10359.5	10551.7	10393.7	10061.9	9822.3
22.5°	8321.3	8366.1	8618.9	9148.2	9875.0	10549.1	10894.0	10786.1	10359.5	10027.7
25°	7878.9	7926.3	8221.2	8848.0	9745.9	10686.0	11299.6	11231.1	10696.5	10283.1
27.5°	7497.1	7547.1	7868.4	8550.4	9545.8	10738.7	11699.8	11734.1	11104.7	10564.9
30°	7196.9	7244.3	7586.6	8310.8	9287.7	10686.0	12050.1	12287.1	11520.8	10809.8
32.5°	6867.7	6928.3	7289.0	8018.5	8982.3	10559.6	12355.5	12884.8	12002.7	11073.1
35°	6451.6	6506.9	6886.1	7618.2	8582.0	10356.8	12611.0	13548.4	12692.6	11473.4
37.5°	5946.0	5998.7	6375.3	7117.9	8184.4	10072.4	12805.8	14296.3	13514.2	12050.1
40°	5437.8	5487.8	5840.7	6559.6	7707.7	9709.1	12874.3	15028.4	14456.9	12842.7
42.5°	4971.7	5016.5	5340.4	6009.2	7173.2	9245.6	12784.8	15665.6	15302.2	13395.7
45°	4542.5	4582.0	4869.0	5493.1	6617.5	8682.1	12516.2	16350.3	16308.2	13790.7
47.5°	4052.7	4092.2	4389.7	4992.8	6061.9	8021.1	12060.6	17024.4	17706.4	14686.0
50°	3454.9	3489.1	3794.6	4416.1	5485.2	7318.0	11428.6	17553.7	19470.8	16042.2
52.5°	2746.6	2783.4	3081.0	3702.4	4800.5	6562.2	10596.5	17898.7	21509.0	18022.4
55°	2043.5	2069.8	2327.9	2886.1	3952.6	5701.1	9553.7	17996.1	23821.0	20729.5
57.5°	1482.6	1498.4	1664.3	2080.3	2996.7	4624.1	8287.1	17743.3	26572.8	24200.2
60°	1200.8	1206.1	1256.1	1440.4	2083.0	3407.5	6757.1	16874.3	29559.0	28674.2
62.5°	1090.2	1090.2	1103.4	1153.4	1408.8	2248.9	4905.9	15073.1	32761.1	34328.0
65°	1013.8	1013.8	1019.1	1042.8	1111.3	1432.5	3096.8	12139.6	35460.3	40950.8
67.5°	945.4	948.0	945.4	953.3	992.8	1058.6	1795.9	8384.5	36913.9	47813.2
70°	874.3	879.5	866.4	866.4	898.0	900.6	1124.4	4597.8	35707.8	53564.4
72.5°	790.0	797.9	776.8	771.6	795.3	784.7	845.3	2206.7	30657.1	55281.3
75°	716.3	726.8	679.4	666.2	666.2	658.3	687.3	1132.3	19897.4	45095.6
77.5°	650.4	671.5	595.1	553.0	542.5	518.8	560.9	692.6	8703.1	21171.9
80°	537.2	566.2	489.8	439.8	421.3	395.0	442.4	484.5	2588.6	4916.4
82.5°	400.3	413.4	347.6	313.4	297.6	279.1	331.8	337.1	842.7	1740.6
85°	255.4	260.7	213.3	184.3	176.4	168.5	210.7	184.3	321.3	1279.8
87.5°	89.5	102.7	81.6	73.7	79.0	65.8	97.4	55.3	89.5	903.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

9258.8
9264.0
9324.6
9387.8
9411.5
9432.6
9485.2
9601.1
9777.5
9967.1
10198.8
10475.3
10680.7
10909.8
11291.7
11807.8
12584.6
13063.9
13343.0
14169.9
15394.4
17224.5
19731.5
22944.1
27091.6
32208.1
38270.0
44919.2
52803.3
57282.6
48234.5
20732.1
4708.4
1967.1
1859.1
1119.2
0.0

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