

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: P944603

Luminaire Tested: **GALN-SB9C-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944603
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-SB9C-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64547 lumens
Efficiency: N/A
Efficacy: 143.5 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

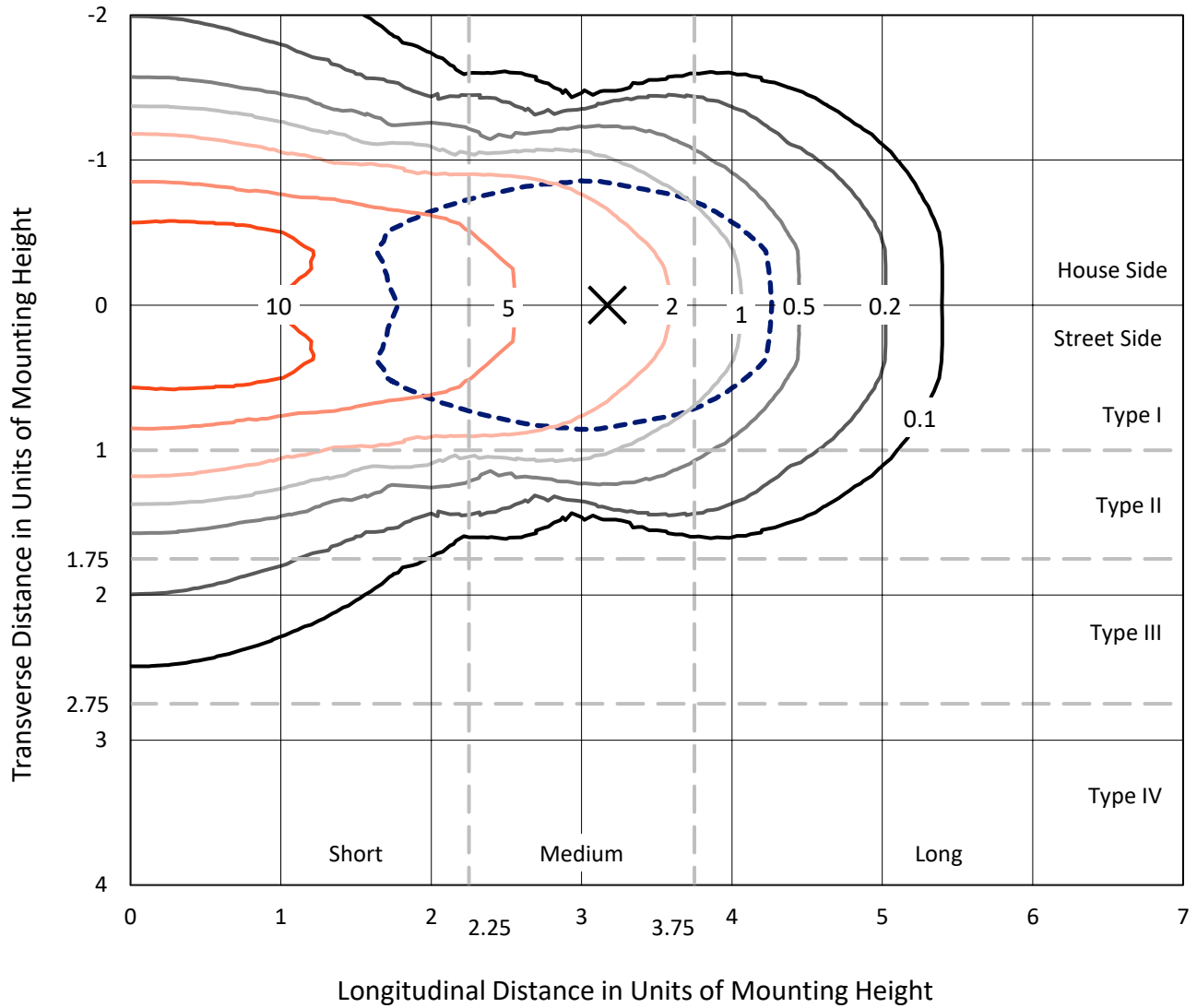
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

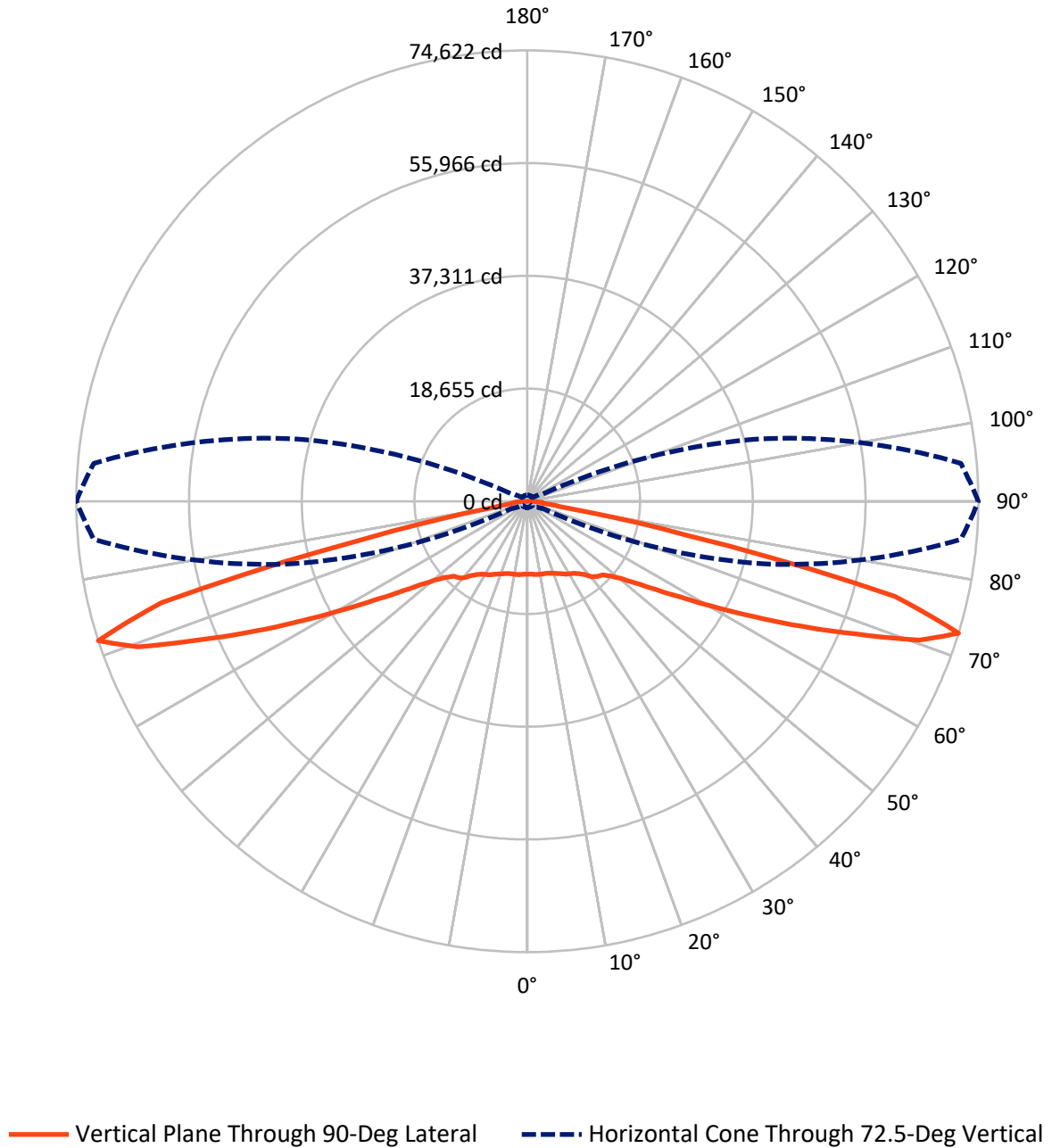
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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	32273.5	0.0	32273.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32273.5	0.0	32273.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	64547.0	0.0	64547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1169.5	1.8
10°-20°	3575.8	5.5
20°-30°	5962.4	9.2
30°-40°	8200.1	12.7
40°-50°	10014.6	15.5
50°-60°	11582.9	17.9
60°-70°	13810.7	21.4
70°-80°	9639.0	14.9
80°-90°	592.0	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°	64547.0	100.0
0°-180°	64547.0	100.0

Coefficient of Utilization



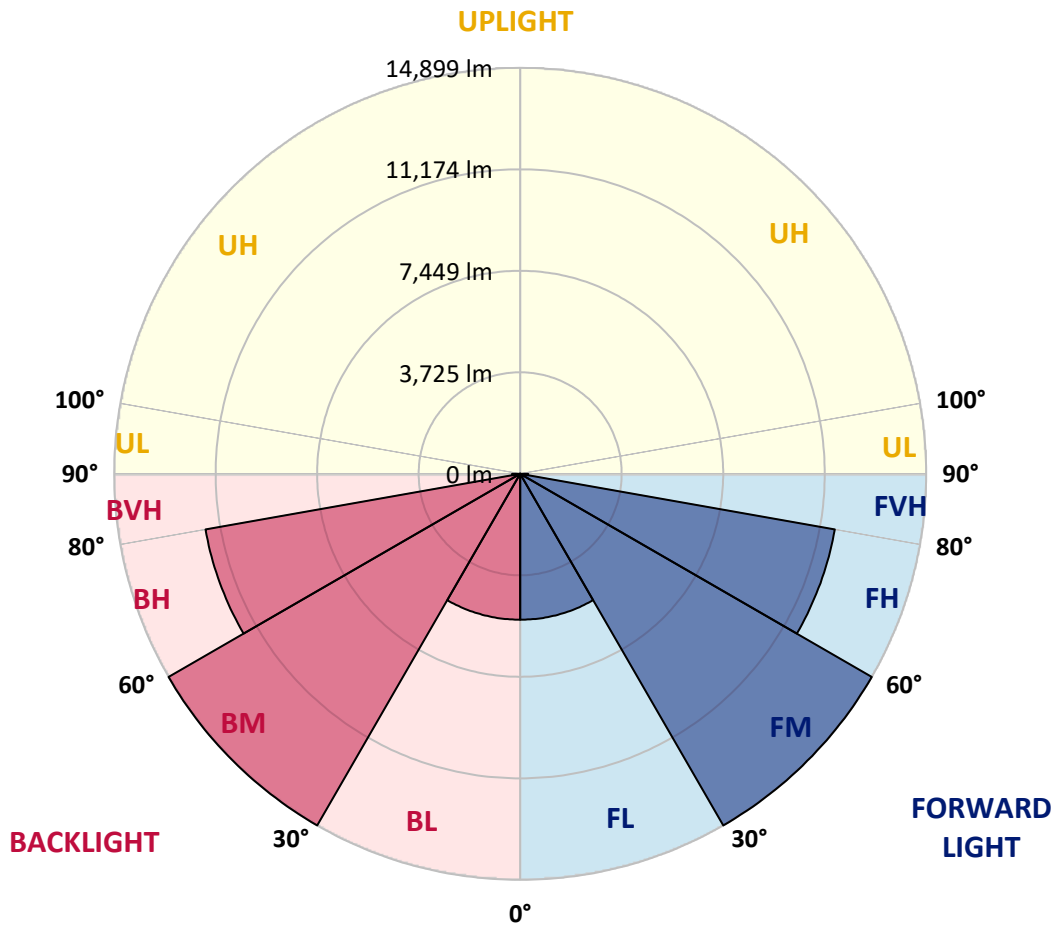
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5353.8	8.3			
FM	(30°-60°)	14898.8	23.1			
FH	(60°-80°)	11724.9	18.2			G4/12000
FVH	(80°-90°)	296.0	0.5			G3/500
BL	(0°-30°)	5353.8	8.3	B5		
BM	(30°-60°)	14898.8	23.1	B5		
BH	(60°-80°)	11724.9	18.2	B5		G5
BVH	(80°-90°)	296.0	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°	12061.3	12061.3	12061.3	12061.3	12061.3	12061.3	12061.3	12061.3	12061.3	12061.3
2.5°	12071.6	12085.3	12085.3	12075.0	12099.0	12078.4	12078.4	12068.1	12078.4	12068.1
5°	12133.3	12150.5	12157.3	12153.9	12184.8	12167.6	12167.6	12153.9	12157.3	12147.0
7.5°	12250.0	12274.0	12287.7	12304.8	12349.4	12328.9	12315.1	12274.0	12256.8	12229.4
10°	12287.7	12315.1	12359.7	12448.9	12551.8	12555.3	12514.1	12411.2	12332.3	12270.5
12.5°	12171.1	12208.8	12301.4	12483.2	12713.1	12805.7	12740.5	12569.0	12414.6	12304.8
15°	12023.6	12064.7	12205.4	12479.8	12819.4	13035.5	13028.7	12802.3	12555.3	12383.7
17.5°	11793.7	11834.9	12037.3	12421.5	12901.7	13258.5	13354.5	13121.3	12774.8	12545.0
20°	11378.6	11416.4	11697.7	12236.2	12929.2	13495.2	13745.6	13539.8	13107.6	12795.4
22.5°	10840.1	10898.4	11227.7	11917.2	12864.0	13742.2	14191.6	14050.9	13495.2	13063.0
25°	10263.8	10325.5	10709.7	11526.1	12695.9	13920.6	14719.8	14630.7	13934.3	13395.7
27.5°	9766.4	9831.5	10250.0	11138.5	12435.2	13989.2	15241.3	15285.9	14466.0	13762.8
30°	9375.3	9437.0	9883.0	10826.3	12099.0	13920.6	15697.5	16006.2	15008.0	14081.8
32.5°	8946.5	9025.4	9495.3	10445.6	11701.1	13755.9	16095.4	16784.9	15635.8	14424.8
35°	8404.5	8476.5	8970.5	9924.1	11179.7	13491.8	16428.2	17649.4	16534.5	14946.3
37.5°	7745.8	7814.5	8305.0	9272.4	10661.7	13121.3	16682.0	18623.6	17604.8	15697.5
40°	7083.8	7149.0	7608.6	8545.1	10040.8	12647.9	16771.2	19577.3	18832.9	16730.1
42.5°	6476.6	6534.9	6956.9	7828.2	9344.4	12044.1	16654.6	20407.5	19934.1	17450.4
45°	5917.4	5968.9	6342.8	7155.8	8620.6	11310.0	16304.7	21299.4	21244.5	17965.0
47.5°	5279.4	5330.8	5718.5	6504.0	7896.8	10449.0	15711.2	22177.5	23066.0	19131.3
50°	4500.7	4545.3	4943.2	5752.8	7145.5	9533.1	14887.9	22867.1	25364.4	20898.0
52.5°	3577.9	3625.9	4013.6	4823.1	6253.6	8548.6	13803.9	23316.4	28019.5	23477.7
55°	2662.0	2696.3	3032.5	3759.7	5149.0	7426.8	12445.5	23443.4	31031.4	27004.1
57.5°	1931.3	1951.9	2168.0	2710.0	3903.8	6023.8	10795.5	23114.0	34616.2	31525.4
60°	1564.3	1571.1	1636.3	1876.4	2713.4	4438.9	8802.4	21982.0	38506.2	37353.6
62.5°	1420.2	1420.2	1437.3	1502.5	1835.3	2929.6	6390.8	19635.6	42677.6	44718.7
65°	1320.7	1320.7	1327.6	1358.4	1447.6	1866.1	4034.2	15814.1	46193.8	53346.2
67.5°	1231.5	1234.9	1231.5	1241.8	1293.3	1379.0	2339.5	10922.4	48087.4	62285.8
70°	1138.9	1145.8	1128.6	1128.6	1169.8	1173.2	1464.8	5989.5	46516.2	69777.8
72.5°	1029.1	1039.4	1012.0	1005.1	1036.0	1022.3	1101.2	2874.7	39936.7	72014.4
75°	933.1	946.8	885.0	867.9	867.9	857.6	895.3	1475.1	25920.1	58745.6
77.5°	847.3	874.8	775.3	720.4	706.7	675.8	730.7	902.2	11337.5	27580.4
80°	699.8	737.5	638.1	572.9	548.9	514.6	576.3	631.2	3372.1	6404.6
82.5°	521.4	538.6	452.8	408.2	387.6	363.6	432.2	439.1	1097.7	2267.5
85°	332.7	339.6	277.9	240.1	229.8	219.5	274.4	240.1	418.5	1667.2
87.5°	116.6	133.8	106.3	96.1	102.9	85.8	126.9	72.0	116.6	1176.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

12061.3
12068.1
12147.0
12229.4
12260.3
12287.7
12356.3
12507.2
12737.1
12984.1
13285.9
13646.1
13913.7
14212.1
14709.6
15381.9
16393.9
17018.2
17381.8
18459.0
20054.1
22438.2
25704.0
29889.1
35292.0
41957.2
49854.0
58515.8
68786.4
74621.5
62834.6
27007.5
6133.6
2562.5
2421.9
1457.9
0.0

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