

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: P944643

Luminaire Tested: **GALN-SB9C-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944643
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-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48900 lumens
Efficiency: N/A
Efficacy: 108.7 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

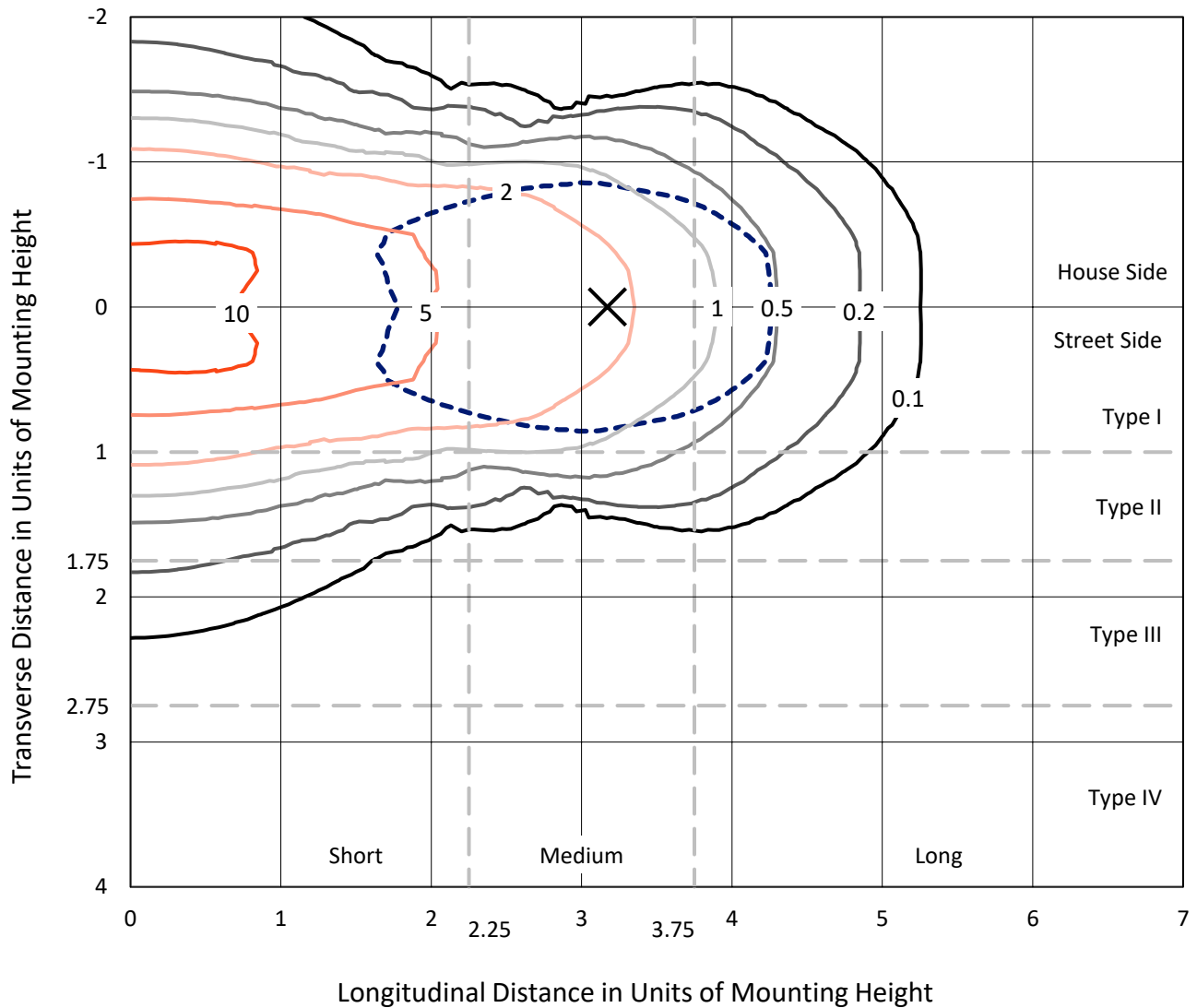
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

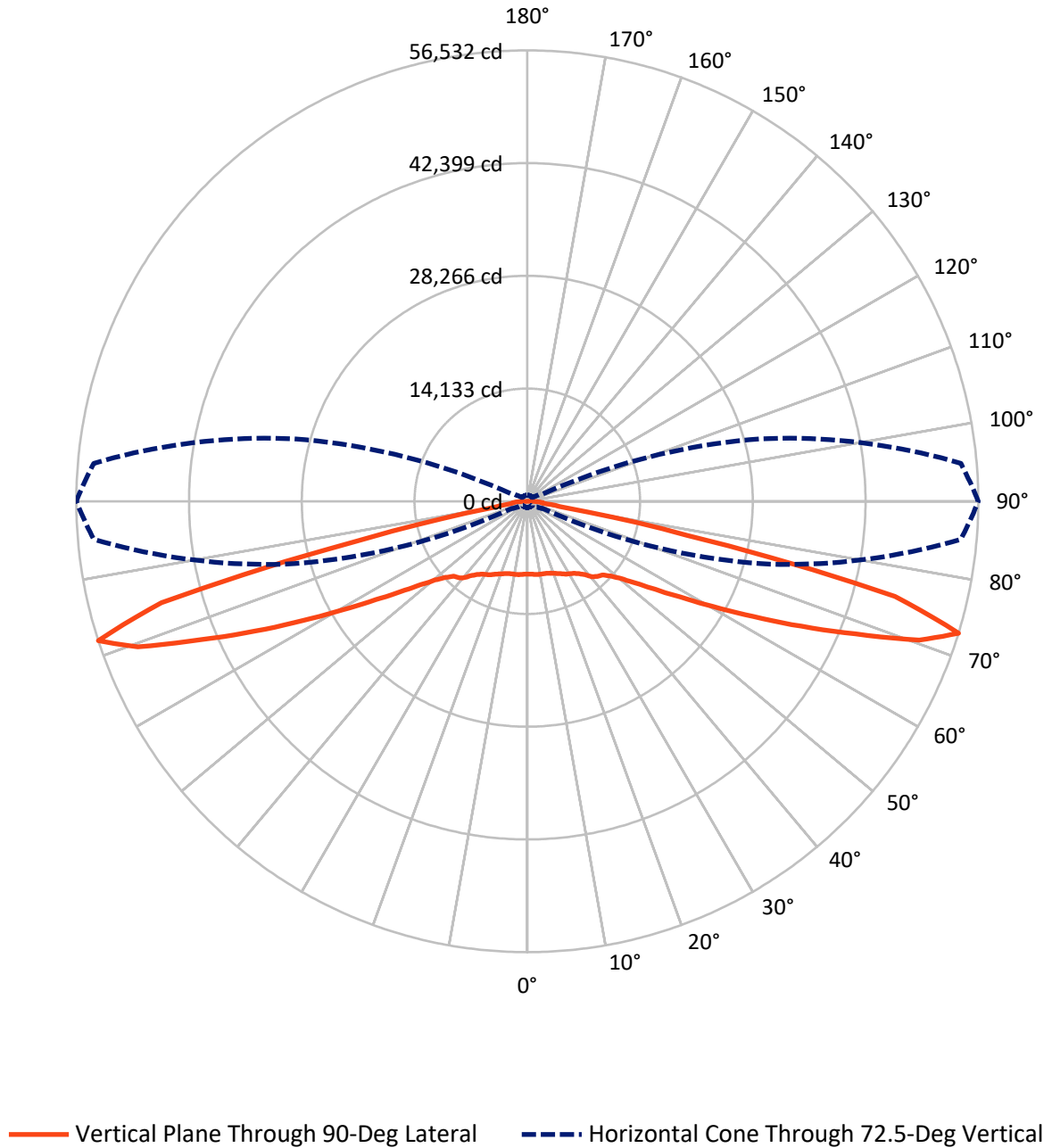
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	24450.0	0.0	24450.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24450.0	0.0	24450.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48900.0	0.0	48900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.0	1.8
10°-20°	2709.0	5.5
20°-30°	4517.0	9.2
30°-40°	6212.3	12.7
40°-50°	7586.9	15.5
50°-60°	8775.1	17.9
60°-70°	10462.8	21.4
70°-80°	7302.4	14.9
80°-90°	448.5	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°	48900.0	100.0
0°-180°	48900.0	100.0

Coefficient of Utilization



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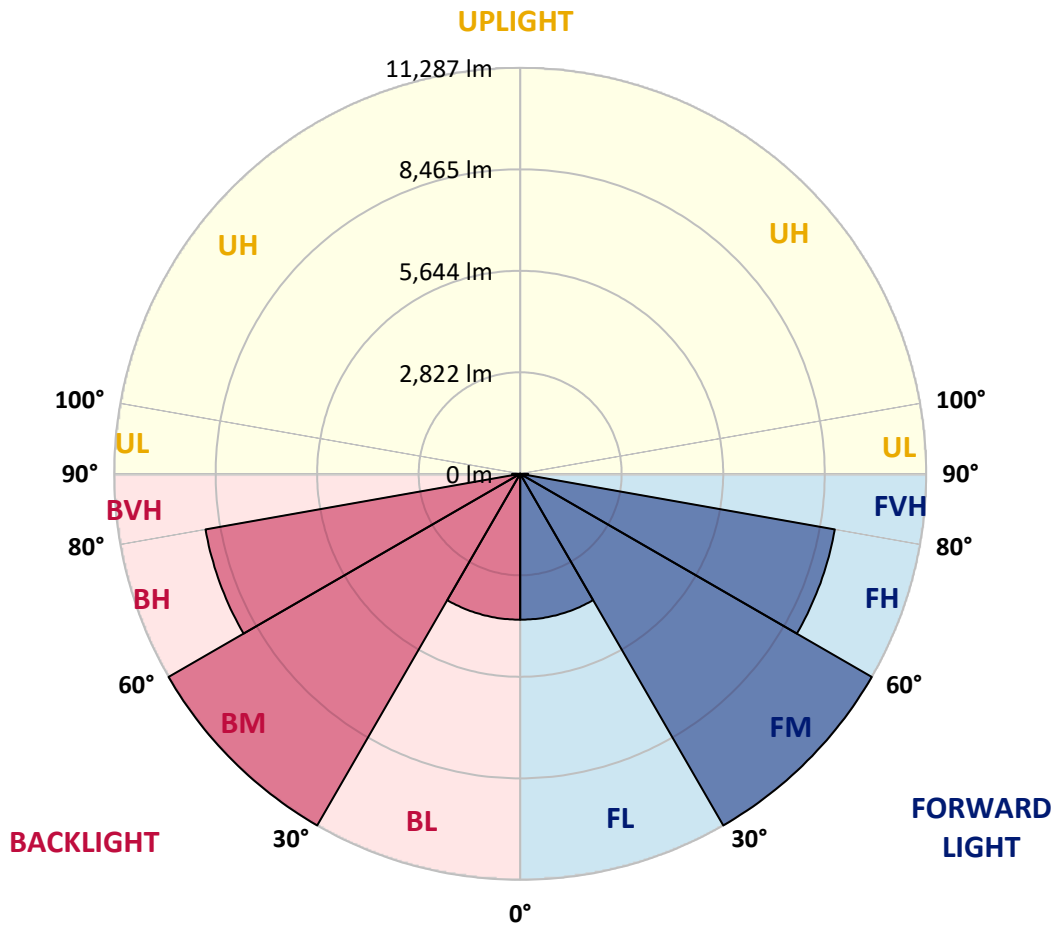
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4056.0	8.3			
FM (30°-60°)	11287.1	23.1			
FH (60°-80°)	8882.6	18.2			G4/12000
FVH (80°-90°)	224.3	0.5			G2/225
BL (0°-30°)	4056.0	8.3	B4/5000		
BM (30°-60°)	11287.1	23.1	B5		
BH (60°-80°)	8882.6	18.2	B5		G5
BVH (80°-90°)	224.3	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°	9137.5	9137.5	9137.5	9137.5	9137.5	9137.5	9137.5	9137.5	9137.5	9137.5
2.5°	9145.3	9155.7	9155.7	9147.9	9166.1	9150.5	9150.5	9142.7	9150.5	9142.7
5°	9192.1	9205.1	9210.2	9207.6	9231.0	9218.0	9218.0	9207.6	9210.2	9202.5
7.5°	9280.4	9298.6	9309.0	9322.0	9355.8	9340.2	9329.8	9298.6	9285.6	9264.8
10°	9309.0	9329.8	9363.6	9431.1	9509.1	9511.7	9480.5	9402.6	9342.8	9296.0
12.5°	9220.6	9249.2	9319.4	9457.1	9631.3	9701.4	9652.0	9522.1	9405.2	9322.0
15°	9108.9	9140.1	9246.6	9454.5	9711.8	9875.5	9870.4	9698.8	9511.7	9381.8
17.5°	8934.8	8966.0	9119.3	9410.4	9774.2	10044.5	10117.2	9940.5	9678.0	9503.9
20°	8620.3	8648.9	8862.0	9270.0	9795.0	10223.8	10413.5	10257.6	9930.1	9693.6
22.5°	8212.3	8256.5	8506.0	9028.3	9745.6	10410.9	10751.4	10644.8	10223.8	9896.3
25°	7775.7	7822.5	8113.5	8732.1	9618.3	10546.0	11151.6	11084.0	10556.4	10148.4
27.5°	7398.9	7448.2	7765.3	8438.4	9420.8	10598.0	11546.6	11580.4	10959.3	10426.5
30°	7102.6	7149.4	7487.2	8201.9	9166.1	10546.0	11892.2	12126.1	11369.9	10668.2
32.5°	6777.7	6837.5	7193.6	7913.4	8864.6	10421.3	12193.7	12716.1	11845.5	10928.1
35°	6367.1	6421.7	6795.9	7518.4	8469.6	10221.2	12445.8	13371.0	12526.4	11323.1
37.5°	5868.2	5920.1	6291.8	7024.6	8077.2	9940.5	12638.1	14109.0	13337.2	11892.2
40°	5366.6	5416.0	5764.2	6473.7	7606.8	9581.9	12705.7	14831.5	14267.6	12674.5
42.5°	4906.6	4950.8	5270.4	5930.5	7079.2	9124.5	12617.3	15460.4	15101.8	13220.2
45°	4483.0	4522.0	4805.2	5421.2	6530.9	8568.3	12352.2	16136.1	16094.5	13610.1
47.5°	3999.6	4038.6	4332.2	4927.4	5982.5	7916.0	11902.6	16801.4	17474.5	14493.7
50°	3409.7	3443.4	3744.9	4358.2	5413.4	7222.1	11278.9	17323.8	19215.7	15832.1
52.5°	2710.6	2747.0	3040.6	3654.0	4737.7	6476.3	10457.7	17664.2	21227.2	17786.4
55°	2016.7	2042.7	2297.4	2848.3	3900.8	5626.5	9428.5	17760.4	23509.0	20458.0
57.5°	1463.1	1478.7	1642.5	2053.1	2957.5	4563.5	8178.5	17510.9	26224.8	23883.2
60°	1185.1	1190.3	1239.6	1421.6	2055.7	3362.9	6668.6	16653.3	29171.9	28298.6
62.5°	1075.9	1075.9	1088.9	1138.3	1390.4	2219.4	4841.6	14875.7	32332.0	33878.3
65°	1000.5	1000.5	1005.7	1029.1	1096.7	1413.8	3056.2	11980.6	34995.8	40414.4
67.5°	933.0	935.6	933.0	940.8	979.8	1044.7	1772.4	8274.7	36430.4	47186.9
70°	862.8	868.0	855.0	855.0	886.2	888.8	1109.7	4537.6	35240.1	52862.8
72.5°	779.6	787.4	766.7	761.5	784.8	774.5	834.2	2177.8	30255.6	54557.2
75°	706.9	717.3	670.5	657.5	657.5	649.7	678.3	1117.5	19636.7	44504.9
77.5°	641.9	662.7	587.3	545.8	535.4	512.0	553.6	683.5	8589.1	20894.6
80°	530.2	558.7	483.4	434.0	415.8	389.8	436.6	478.2	2554.6	4852.0
82.5°	395.0	408.0	343.0	309.3	293.7	275.5	327.5	332.7	831.6	1717.8
85°	252.1	257.3	210.5	181.9	174.1	166.3	207.9	181.9	317.1	1263.0
87.5°	88.4	101.4	80.6	72.8	78.0	65.0	96.2	54.6	88.4	891.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

9137.5
9142.7
9202.5
9264.8
9288.2
9309.0
9361.0
9475.3
9649.5
9836.6
10065.3
10338.1
10540.8
10766.9
11143.8
11653.1
12419.8
12892.8
13168.3
13984.3
15192.8
16998.9
19473.0
22643.6
26736.7
31786.3
37768.8
44330.8
52111.7
56532.3
47602.7
20460.6
4646.7
1941.3
1834.8
1104.5
0.0

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