

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: P944673

Luminaire Tested: **GALN-SB9D-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944673
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-SB9D-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85048 lumens
Efficiency: N/A
Efficacy: 129.3 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): 658
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



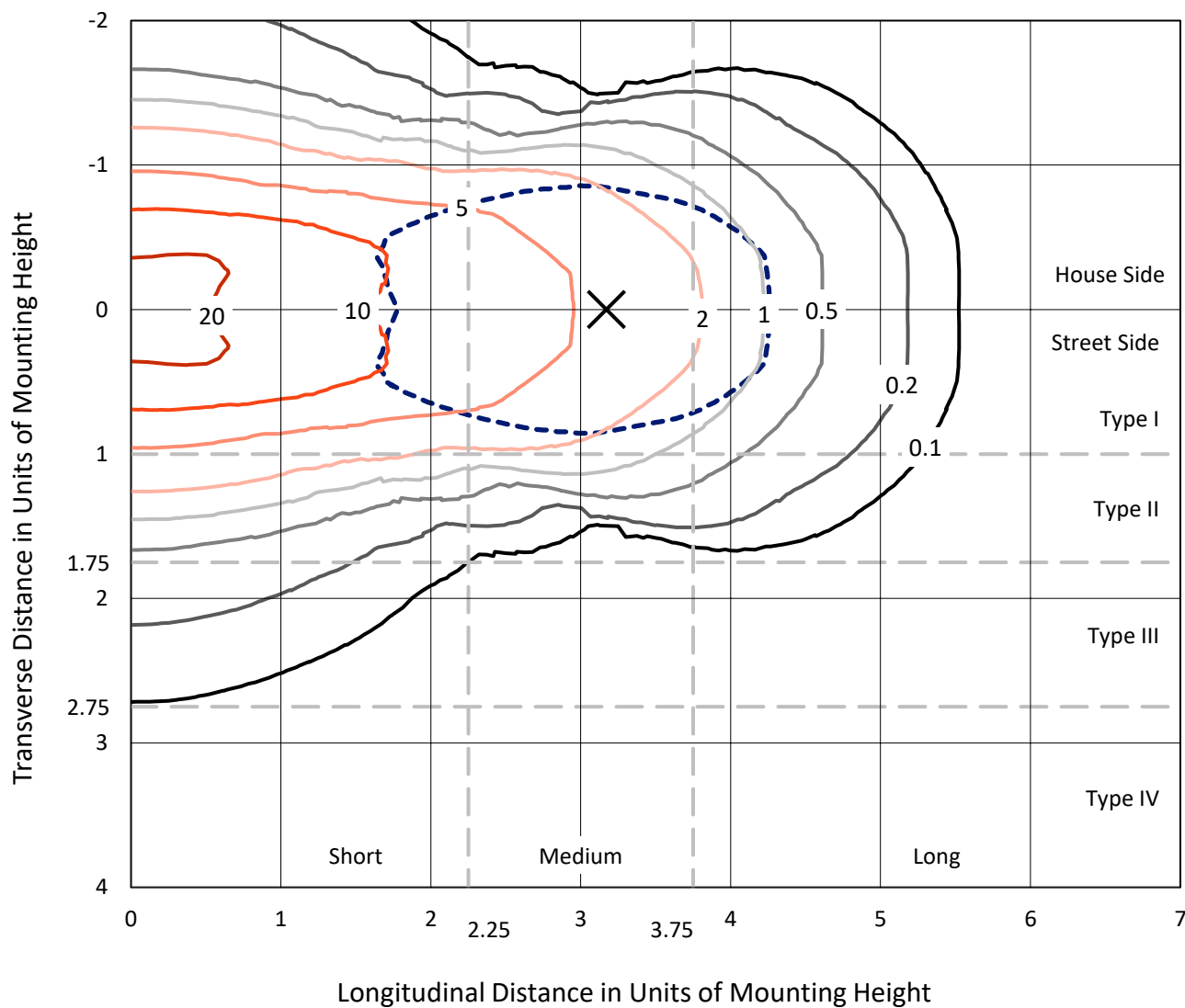
REPORT NUMBER: P944673

CATALOG NUMBER: GALN-SB9D-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

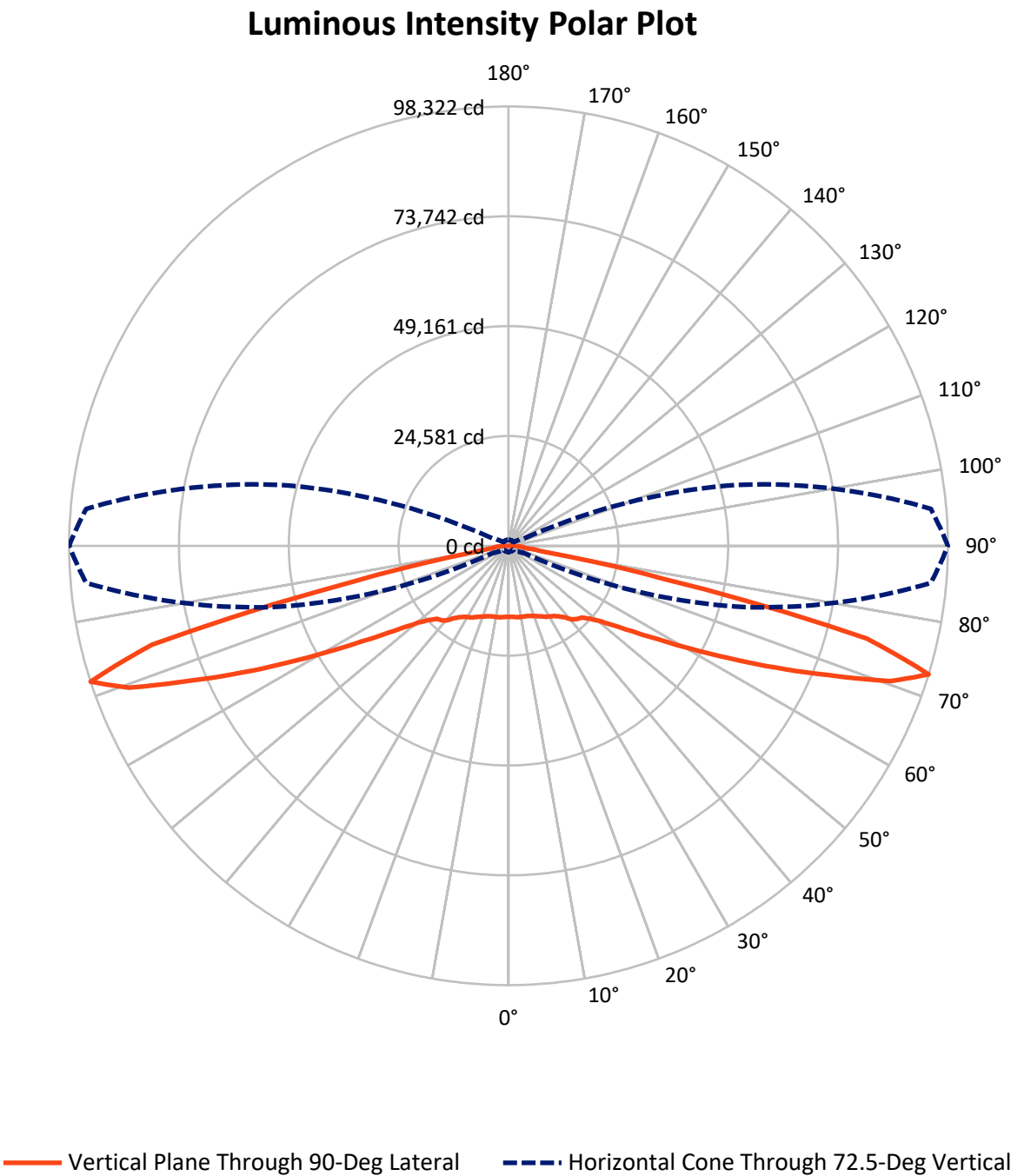
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type I - Short - N/A

REPORT NUMBER: P944673
CATALOG NUMBER: GALN-SB9D-727-U-T1



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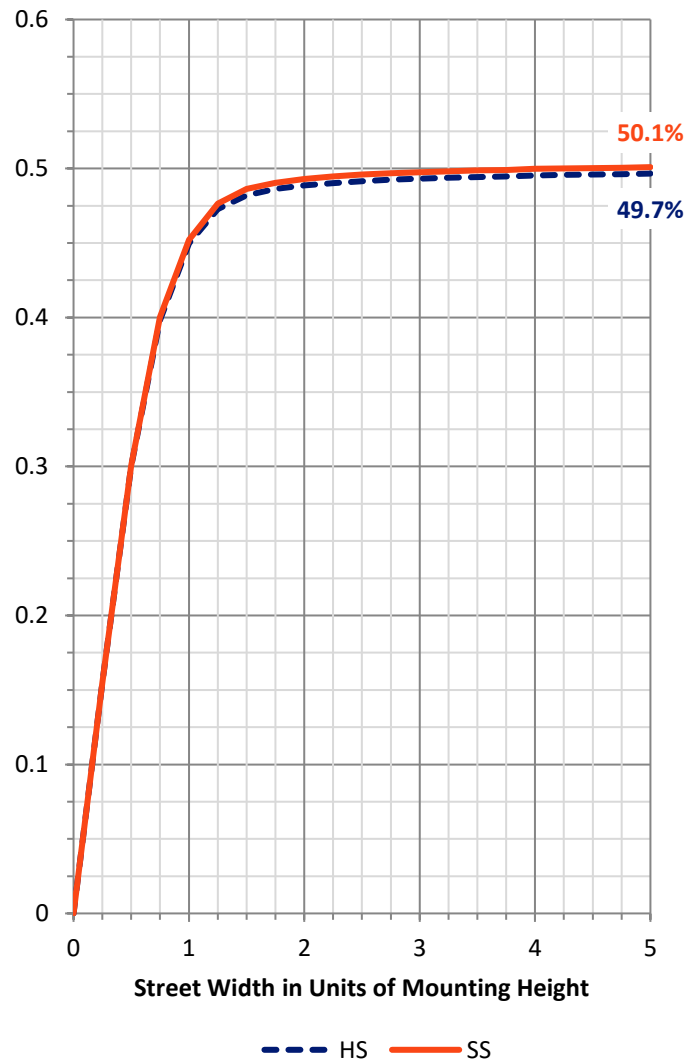
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42524.0	0.0	42524.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	42524.0	0.0	42524.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	85048.0	0.0	85048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1540.9	1.8
10°-20°	4711.6	5.5
20°-30°	7856.1	9.2
30°-40°	10804.6	12.7
40°-50°	13195.3	15.5
50°-60°	15261.8	17.9
60°-70°	18197.2	21.4
70°-80°	12700.4	14.9
80°-90°	780.1	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°	85048.0	100.0
0°-180°	85048.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944673

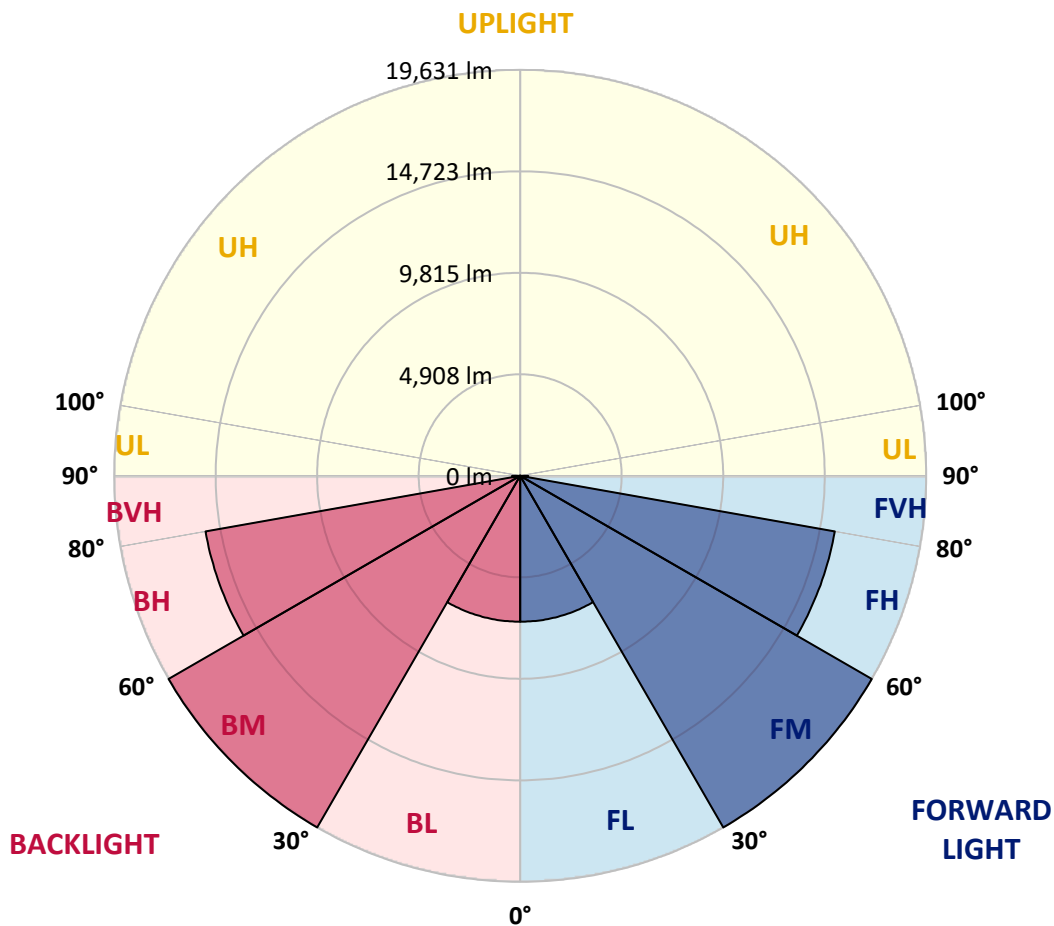
CATALOG NUMBER: GALN-SB9D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7054.3	8.3			
FM	(30°-60°)	19630.9	23.1			
FH	(60°-80°)	15448.8	18.2			G5
FVH	(80°-90°)	390.0	0.5			G3/500
BL	(0°-30°)	7054.3	8.3	B5		
BM	(30°-60°)	19630.9	23.1	B5		
BH	(60°-80°)	15448.8	18.2	B5		G5
BVH	(80°-90°)	390.0	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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CATALOG NUMBER: GALN-SB9D-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1	15892.1
2.5°	15905.7	15923.8	15923.8	15910.2	15941.8	15914.7	15914.7	15901.2	15914.7	15901.2	15901.2
5°	15987.0	16009.6	16018.7	16014.2	16054.8	16032.2	16032.2	16014.2	16018.7	16005.1	16005.1
7.5°	16140.7	16172.4	16190.4	16213.0	16271.8	16244.7	16226.6	16172.4	16149.8	16113.6	16113.6
10°	16190.4	16226.6	16285.4	16402.9	16538.5	16543.0	16488.7	16353.2	16249.2	16167.8	16154.3
12.5°	16036.8	16086.5	16208.5	16448.1	16750.9	16872.9	16787.1	16561.1	16357.7	16213.0	16190.4
15°	15842.4	15896.6	16082.0	16443.5	16891.0	17175.8	17166.7	16868.4	16543.0	16317.0	16280.8
17.5°	15539.6	15593.8	15860.5	16366.7	16999.5	17469.6	17596.1	17288.8	16832.3	16529.4	16479.7
20°	14992.6	15042.4	15413.0	16122.6	17035.7	17781.5	18111.4	17840.2	17270.7	16859.4	16782.5
22.5°	14283.0	14359.9	14793.8	15702.3	16949.8	18106.9	18699.0	18513.7	17781.5	17211.9	17108.0
25°	13523.7	13605.0	14111.3	15187.0	16728.3	18341.9	19395.1	19277.6	18360.0	17650.4	17505.7
27.5°	12868.3	12954.2	13505.6	14676.3	16384.8	18432.3	20082.1	20140.9	19060.6	18134.0	17980.3
30°	12353.0	12434.4	13022.0	14264.9	15941.8	18341.9	20683.3	21090.1	19774.7	18554.4	18332.9
32.5°	11788.0	11892.0	12511.2	13763.2	15417.5	18125.0	21207.6	22116.1	20601.9	19006.4	18726.1
35°	11073.9	11168.8	11819.6	13076.2	14730.5	17776.9	21646.0	23255.1	21786.1	19693.4	19381.5
37.5°	10206.0	10296.4	10942.8	12217.4	14048.0	17288.8	21980.5	24538.8	23196.3	20683.3	20267.4
40°	9333.7	9419.6	10025.2	11259.2	13229.9	16665.0	22098.0	25795.3	24814.5	22043.8	21600.8
42.5°	8533.7	8610.5	9166.4	10314.5	12312.3	15869.5	21944.3	26889.1	26265.4	22992.9	22423.4
45°	7796.9	7864.7	8357.4	9428.6	11358.6	14902.2	21483.3	28064.3	27992.0	23670.9	22902.5
47.5°	6956.2	7024.0	7534.7	8569.8	10404.9	13767.7	20701.3	29221.4	30392.1	25207.7	24321.8
50°	5930.2	5988.9	6513.2	7579.9	9415.0	12560.9	19616.5	30129.9	33420.5	27535.5	26423.6
52.5°	4714.3	4777.6	5288.3	6355.0	8239.9	11263.7	18188.2	30722.0	36918.9	30934.5	29564.9
55°	3507.5	3552.7	3995.6	4953.9	6784.4	9785.7	16398.4	30889.3	40887.4	35581.0	33867.9
57.5°	2544.7	2571.8	2856.6	3570.8	5143.7	7937.0	14224.3	30455.4	45610.7	41538.3	39382.3
60°	2061.1	2070.1	2156.0	2472.4	3575.3	5848.8	11598.2	28963.8	50736.4	49217.6	46501.2
62.5°	1871.3	1871.3	1893.9	1979.7	2418.2	3860.0	8420.7	25872.1	56232.6	58922.0	55283.4
65°	1740.2	1740.2	1749.2	1789.9	1907.4	2458.8	5315.5	20836.9	60865.5	70289.6	65688.3
67.5°	1622.7	1627.2	1622.7	1636.2	1704.0	1817.0	3082.6	14391.5	63360.5	82068.6	77101.2
70°	1500.6	1509.7	1487.1	1487.1	1541.3	1545.8	1930.0	7891.8	61290.4	91940.1	90633.9
72.5°	1356.0	1369.5	1333.4	1324.3	1365.0	1346.9	1450.9	3787.7	52621.2	94887.1	98322.3
75°	1229.4	1247.5	1166.1	1143.5	1143.5	1130.0	1179.7	1943.6	34152.7	77404.0	82791.8
77.5°	1116.4	1152.6	1021.5	949.2	931.1	890.4	962.7	1188.7	14938.4	36340.3	35585.5
80°	922.1	971.8	840.7	754.8	723.2	678.0	759.4	831.7	4443.1	8438.7	8081.7
82.5°	687.0	709.6	596.6	537.9	510.8	479.1	569.5	578.6	1446.4	2987.7	3376.4
85°	438.4	447.5	366.1	316.4	302.8	289.3	361.6	316.4	551.4	2196.7	3191.1
87.5°	153.7	176.3	140.1	126.6	135.6	113.0	167.2	94.9	153.7	1550.3	1921.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)