

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: P943650

Luminaire Tested: **GALN-SB8B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42720 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

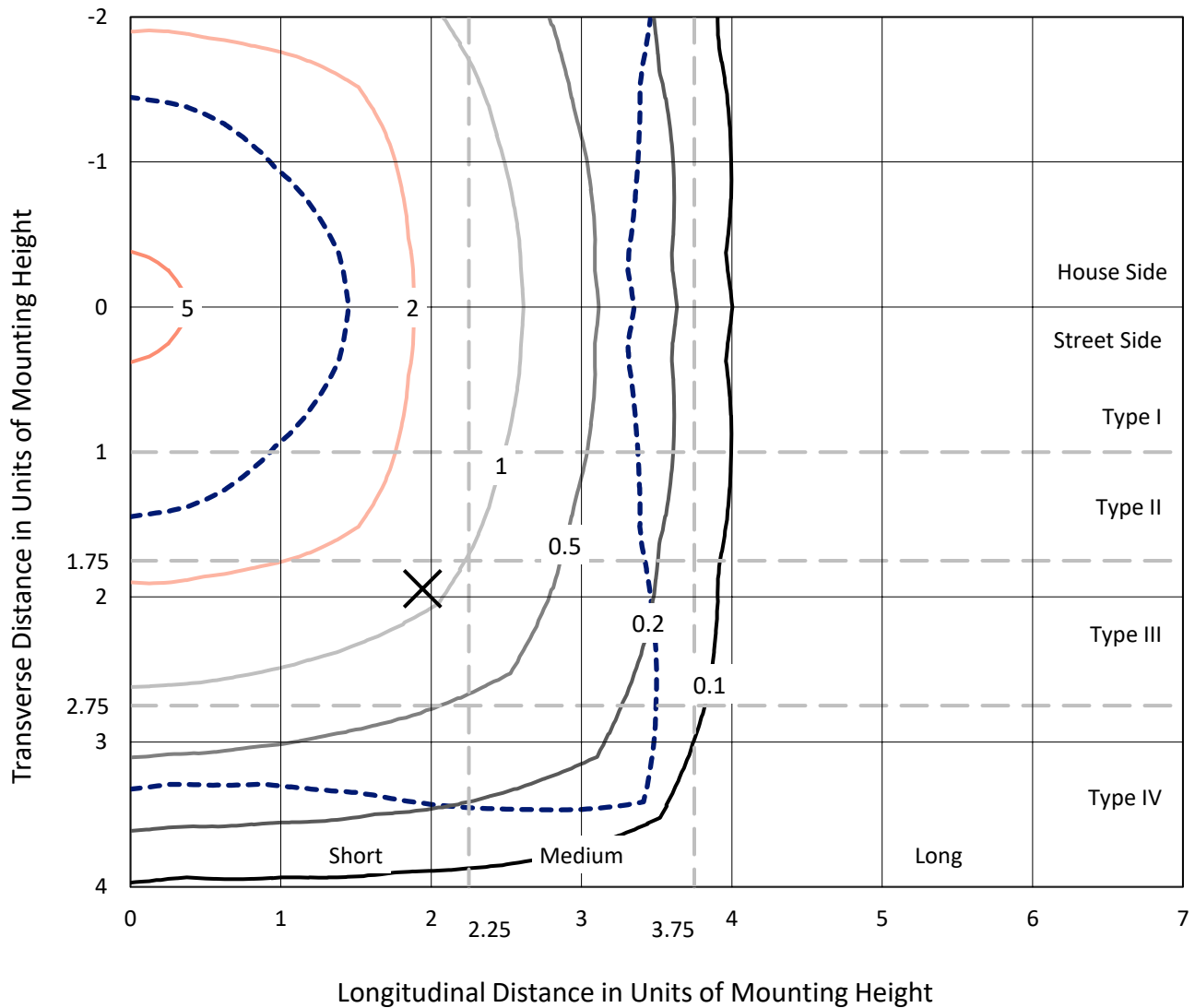


REPORT NUMBER: P943650

CATALOG NUMBER: GALN-SB8B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

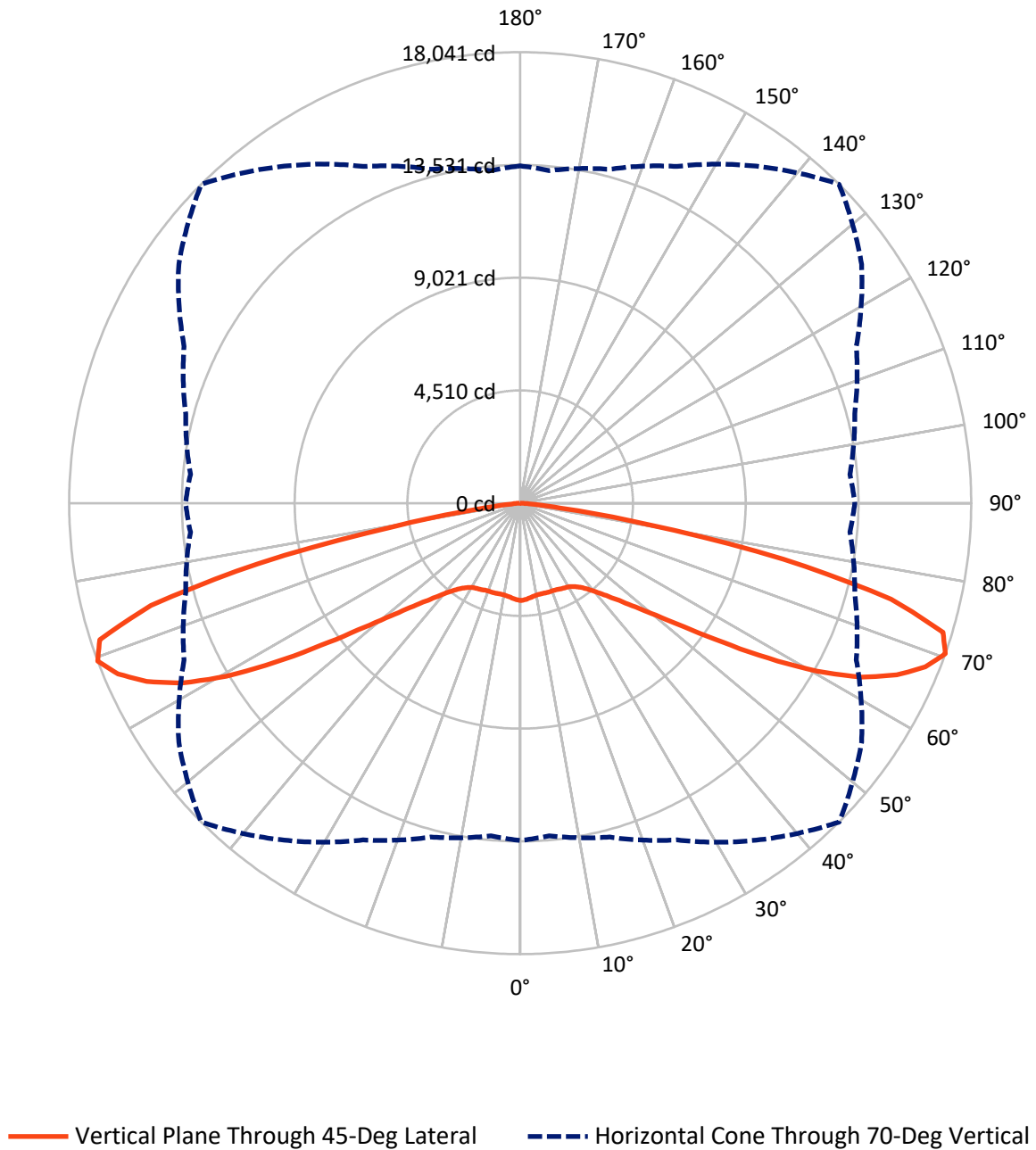


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

REPORT NUMBER: P943650

CATALOG NUMBER: GALN-SB8B-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P943650

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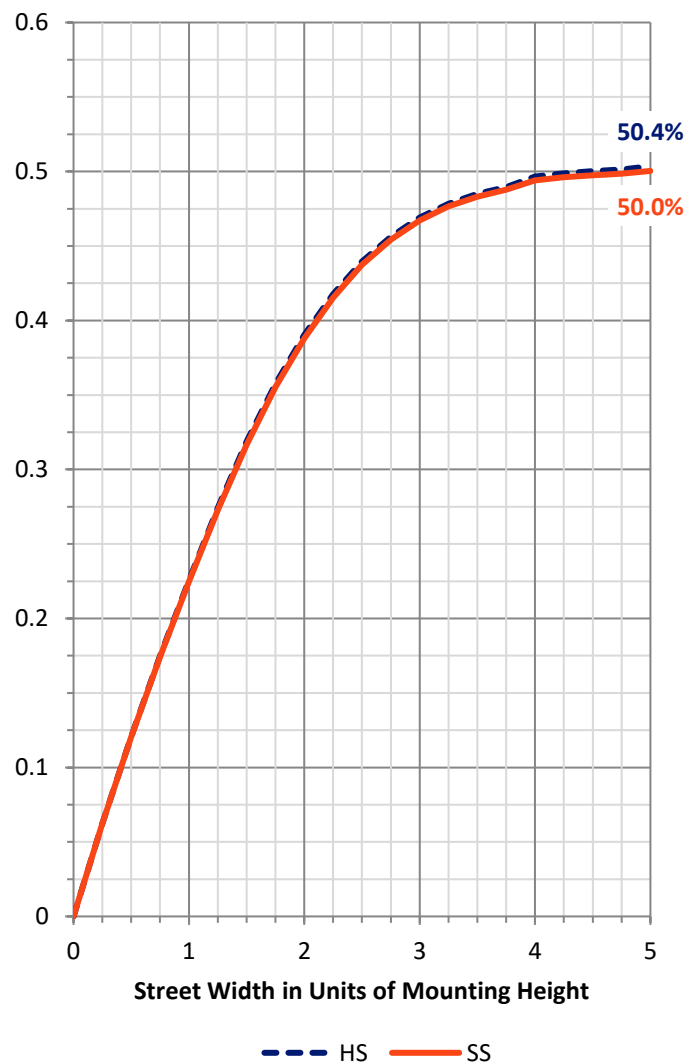
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21360.0	0.0	21360.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21360.0	0.0	21360.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42720.0	0.0	42720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	0.8
10°-20°	1064.4	2.5
20°-30°	1771.3	4.1
30°-40°	2678.8	6.3
40°-50°	4451.5	10.4
50°-60°	8399.8	19.7
60°-70°	14183.4	33.2
70°-80°	9320.0	21.8
80°-90°	488.3	1.1
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°	42720.0	100.0
0°-180°	42720.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943650

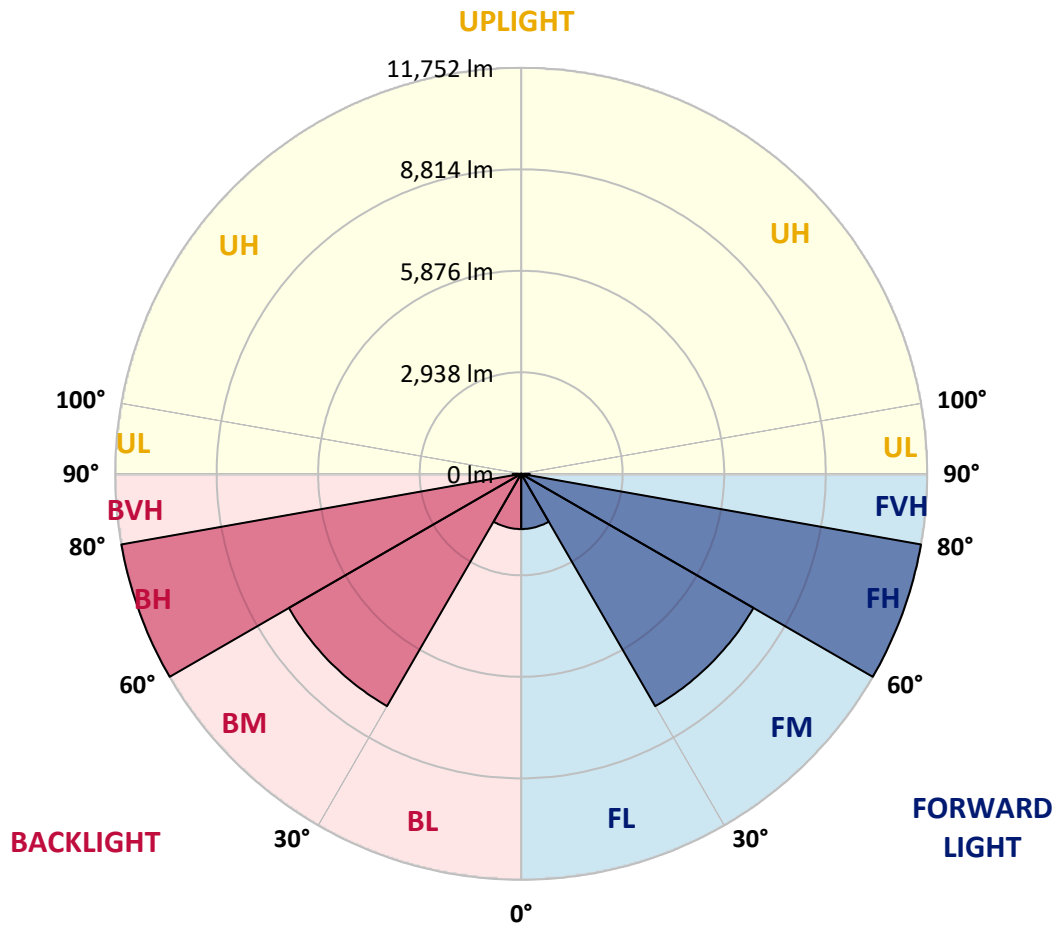
CATALOG NUMBER: GALN-SB8B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1599.1	3.7			
FM	(30°-60°)	7765.0	18.2			
FH	(60°-80°)	11751.7	27.5			G4/12000
FVH	(80°-90°)	244.1	0.6			G3/500
BL	(0°-30°)	1599.1	3.7	B3/2500		
BM	(30°-60°)	7765.0	18.2	B4/8500		
BH	(60°-80°)	11751.7	27.5	B5		G4/12000
BVH	(80°-90°)	244.1	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9	3896.9
2.5°	3872.5	3883.6	3879.2	3870.3	3870.3	3863.6	3870.3	3874.7	3881.4	3885.8	3883.6
5°	3821.4	3830.3	3828.1	3821.4	3823.6	3817.0	3821.4	3828.1	3832.5	3834.8	3834.8
7.5°	3777.0	3785.9	3781.5	3770.4	3770.4	3763.7	3765.9	3772.6	3779.2	3781.5	3781.5
10°	3765.9	3774.8	3761.5	3743.7	3737.1	3728.2	3730.4	3737.1	3750.4	3757.0	3757.0
12.5°	3770.4	3777.0	3763.7	3737.1	3730.4	3721.5	3721.5	3728.2	3745.9	3754.8	3757.0
15°	3783.7	3790.3	3770.4	3741.5	3734.8	3728.2	3725.9	3734.8	3754.8	3770.4	3772.6
17.5°	3808.1	3814.8	3783.7	3743.7	3734.8	3737.1	3734.8	3741.5	3772.6	3801.4	3801.4
20°	3830.3	3834.8	3792.6	3743.7	3734.8	3737.1	3734.8	3748.2	3788.1	3828.1	3830.3
22.5°	3837.0	3841.4	3801.4	3759.3	3752.6	3754.8	3752.6	3765.9	3803.7	3843.6	3843.6
25°	3839.2	3845.9	3814.8	3781.5	3792.6	3797.0	3792.6	3794.8	3823.6	3859.2	3857.0
27.5°	3872.5	3881.4	3852.5	3823.6	3830.3	3828.1	3834.8	3841.4	3863.6	3899.1	3890.3
30°	3941.3	3948.0	3923.6	3894.7	3890.3	3874.7	3894.7	3916.9	3941.3	3972.4	3965.8
32.5°	4054.6	4067.9	4036.8	4005.7	3985.7	3976.9	3992.4	4030.2	4063.5	4096.8	4083.4
35°	4243.3	4252.2	4223.3	4165.6	4130.1	4130.1	4143.4	4192.2	4245.5	4287.7	4272.2
37.5°	4509.8	4520.9	4469.8	4401.0	4347.7	4347.7	4365.4	4416.5	4496.5	4556.4	4534.2
40°	4834.0	4849.5	4785.1	4714.1	4663.0	4654.1	4676.3	4734.0	4809.5	4885.0	4860.6
42.5°	5224.8	5242.5	5158.2	5096.0	5056.0	5056.0	5067.1	5120.4	5189.2	5282.5	5275.8
45°	5724.4	5755.5	5640.0	5577.8	5540.1	5549.0	5555.6	5602.2	5664.4	5771.0	5766.6
47.5°	6319.5	6350.5	6228.4	6164.0	6157.4	6199.6	6172.9	6206.2	6239.5	6361.6	6326.1
50°	6994.5	7047.8	6963.4	6959.0	6972.3	7050.0	6987.8	7005.6	6967.8	7045.5	6998.9
52.5°	7820.5	7898.2	7882.7	7909.3	8058.1	8218.0	8075.8	8013.7	7871.6	7896.0	7813.8
55°	8821.9	8939.6	8961.8	9121.7	9459.2	9785.6	9483.6	9232.7	8930.7	8875.2	8788.6
57.5°	9961.0	10054.3	10160.9	10487.3	11117.9	11697.4	11117.9	10562.8	10087.6	9974.3	9894.4
60°	11186.7	11302.2	11404.3	11886.2	12823.2	13638.1	12805.4	11923.9	11295.5	11142.3	11009.1
62.5°	12503.5	12652.2	12723.3	13258.4	14350.9	15323.5	14366.4	13298.4	12601.2	12436.9	12303.6
65°	13766.9	13889.0	13969.0	14539.6	15583.3	16558.0	15654.3	14601.8	13884.6	13669.2	13562.6
67.5°	14355.3	14421.9	14617.4	15263.5	16364.9	17477.3	16551.4	15332.3	14530.8	14153.3	14157.7
70°	13493.8	13358.3	13829.1	14863.8	16458.1	18041.3	16671.3	14832.7	13851.3	13238.4	13385.0
72.5°	10427.3	10194.2	11011.3	12781.0	15392.3	17681.6	15498.9	12880.9	11519.8	10276.3	10585.0
75°	5673.3	5409.1	6537.1	8775.3	12274.8	15325.7	12556.8	9026.2	7278.7	5631.1	5997.5
77.5°	1601.0	1501.0	2411.4	4245.5	7383.1	10760.4	7667.3	4338.8	2860.0	1696.4	1885.2
80°	490.7	475.2	643.9	1279.0	3135.3	5153.7	3013.2	1294.5	819.4	517.4	546.2
82.5°	290.9	266.5	319.7	466.3	799.4	1618.7	777.2	486.3	390.8	262.0	284.2
85°	166.5	155.4	188.7	226.5	268.7	344.2	224.3	230.9	208.7	139.9	146.6
87.5°	68.8	62.2	73.3	71.1	62.2	79.9	60.0	71.1	84.4	55.5	51.1
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)