

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: P944330

Luminaire Tested: **GALN-SB9B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944330
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-SB9B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 48120 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 329.5
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



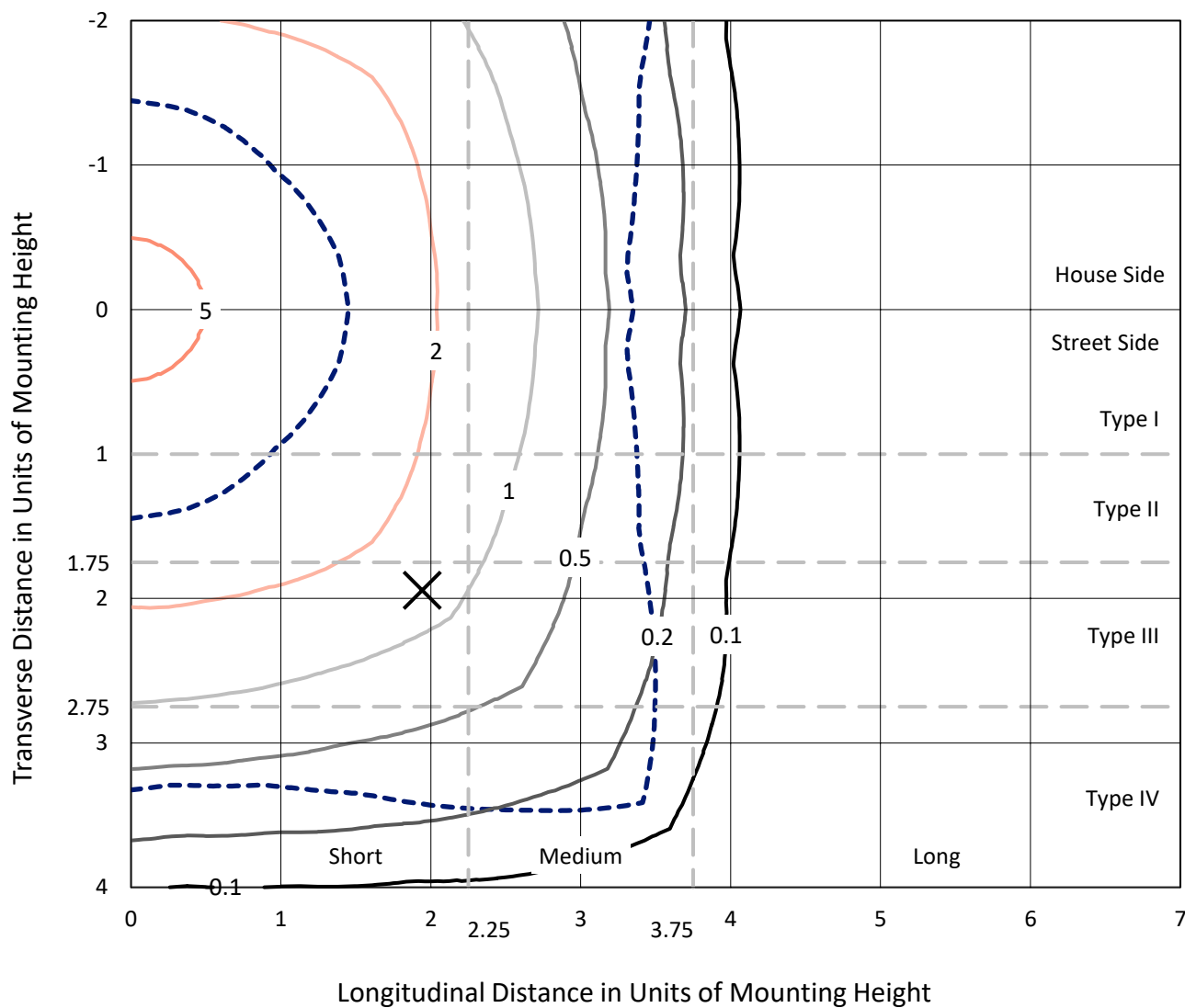
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Iso-Footcandle Lines of Horizontal Illumination

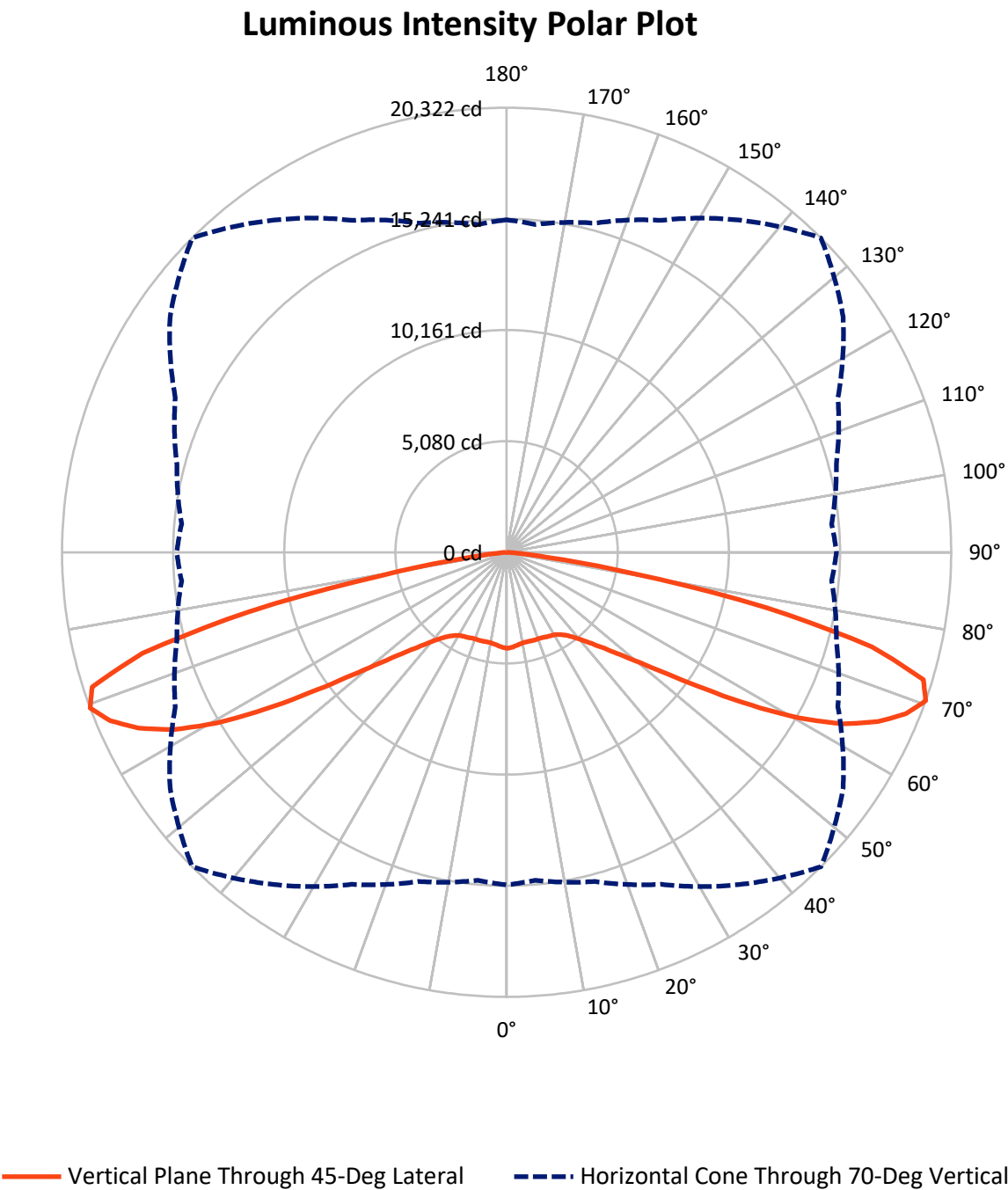
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type V - Short - N/A

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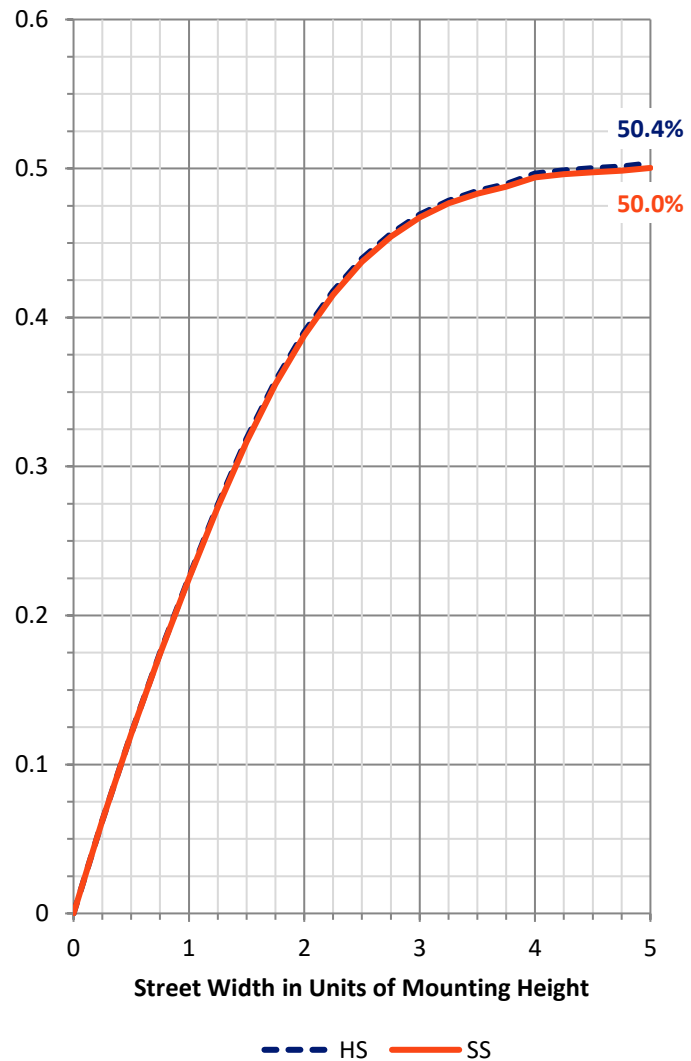
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24060.0	0.0	24060.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24060.0	0.0	24060.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48120.0	0.0	48120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	0.8
10°-20°	1198.9	2.5
20°-30°	1995.2	4.1
30°-40°	3017.4	6.3
40°-50°	5014.2	10.4
50°-60°	9461.6	19.7
60°-70°	15976.3	33.2
70°-80°	10498.1	21.8
80°-90°	550.0	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°	48120.0	100.0
0°-180°	48120.0	100.0

Coefficient of Utilization



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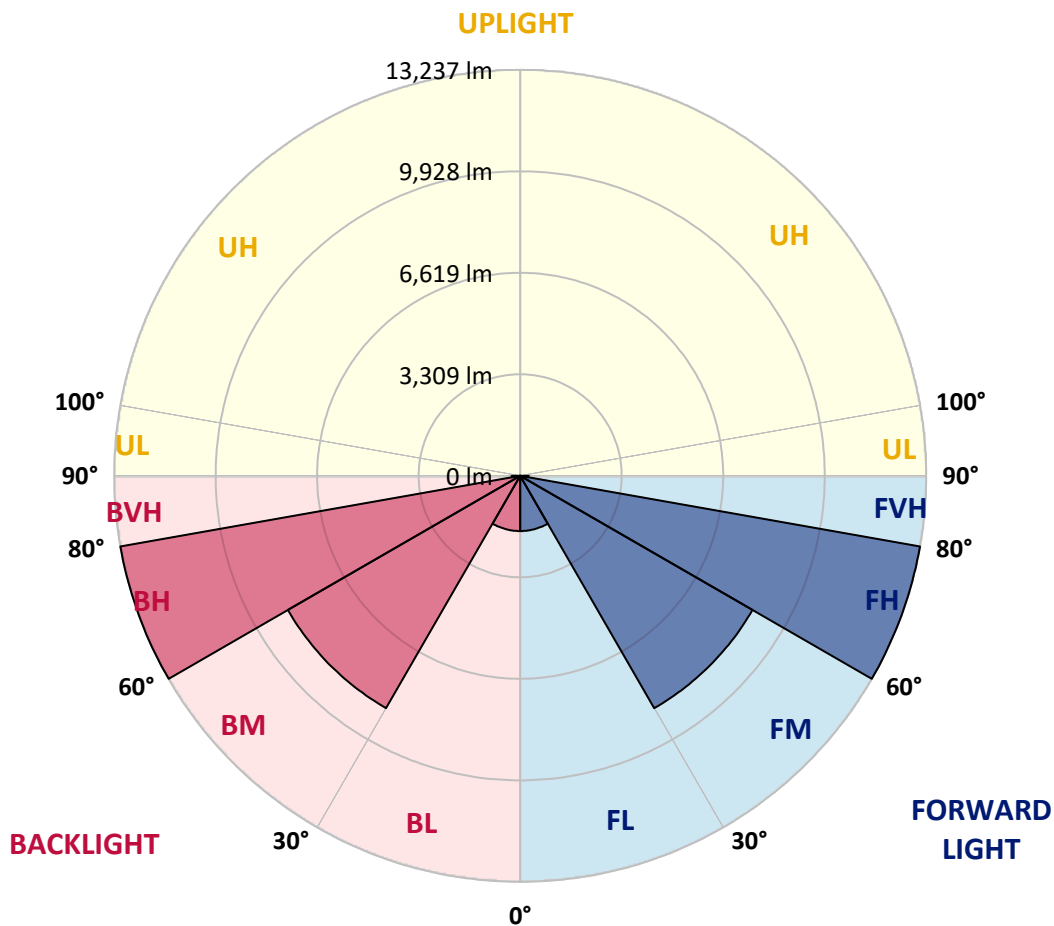
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1801.3	3.7			
FM	(30°-60°)	8746.6	18.2			
FH	(60°-80°)	13237.2	27.5			G5
FVH	(80°-90°)	275.0	0.6			G3/500
BL	(0°-30°)	1801.3	3.7	B3/2500		
BM	(30°-60°)	8746.6	18.2	B5		
BH	(60°-80°)	13237.2	27.5	B5		G5
BVH	(80°-90°)	275.0	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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5	4389.5
2.5°	4362.0	4374.5	4369.5	4359.5	4359.5	4352.0	4359.5	4364.5	4372.0	4377.0	4374.5
5°	4304.5	4314.5	4312.0	4304.5	4307.0	4299.5	4304.5	4312.0	4317.0	4319.5	4319.5
7.5°	4254.5	4264.5	4259.5	4246.9	4246.9	4239.4	4241.9	4249.4	4257.0	4259.5	4259.5
10°	4241.9	4251.9	4236.9	4216.9	4209.4	4199.4	4201.9	4209.4	4224.4	4231.9	4231.9
12.5°	4246.9	4254.5	4239.4	4209.4	4201.9	4191.9	4191.9	4199.4	4219.4	4229.4	4231.9
15°	4262.0	4269.5	4246.9	4214.4	4206.9	4199.4	4196.9	4206.9	4229.4	4246.9	4249.4
17.5°	4289.5	4297.0	4262.0	4216.9	4206.9	4209.4	4206.9	4214.4	4249.4	4282.0	4282.0
20°	4314.5	4319.5	4272.0	4216.9	4206.9	4209.4	4206.9	4221.9	4267.0	4312.0	4314.5
22.5°	4322.0	4327.0	4282.0	4234.4	4226.9	4229.4	4226.9	4241.9	4284.5	4329.5	4329.5
25°	4324.5	4332.0	4297.0	4259.5	4272.0	4277.0	4272.0	4274.5	4307.0	4347.0	4344.5
27.5°	4362.0	4372.0	4339.5	4307.0	4314.5	4312.0	4319.5	4327.0	4352.0	4392.0	4382.0
30°	4439.5	4447.0	4419.5	4387.0	4382.0	4364.5	4387.0	4412.0	4439.5	4474.6	4467.0
32.5°	4567.1	4582.1	4547.1	4512.1	4489.6	4479.6	4497.1	4539.6	4577.1	4614.6	4599.6
35°	4779.7	4789.7	4757.2	4692.2	4652.1	4652.1	4667.1	4722.2	4782.2	4829.7	4812.2
37.5°	5079.8	5092.3	5034.8	4957.3	4897.2	4897.2	4917.3	4974.8	5064.8	5132.4	5107.3
40°	5445.0	5462.5	5390.0	5309.9	5252.4	5242.4	5267.4	5332.4	5417.5	5502.5	5475.0
42.5°	5885.2	5905.2	5810.2	5740.1	5695.1	5695.1	5707.6	5767.6	5845.2	5950.2	5942.7
45°	6448.0	6483.0	6352.9	6282.9	6240.4	6250.4	6257.9	6310.4	6380.4	6500.5	6495.5
47.5°	7118.3	7153.3	7015.7	6943.2	6935.7	6983.2	6953.2	6990.7	7028.2	7165.8	7125.8
50°	7878.6	7938.6	7843.6	7838.6	7853.6	7941.1	7871.1	7891.1	7848.6	7936.1	7883.6
52.5°	8809.0	8896.6	8879.1	8909.1	9076.7	9256.7	9096.7	9026.6	8866.6	8894.1	8801.5
55°	9937.1	10069.6	10094.6	10274.7	10654.9	11022.6	10682.4	10399.8	10059.6	9997.1	9899.5
57.5°	11220.1	11325.2	11445.2	11812.9	12523.2	13176.0	12523.2	11898.0	11362.7	11235.2	11145.1
60°	12600.8	12730.8	12845.9	13388.6	14444.1	15362.0	14424.1	13431.2	12723.3	12550.8	12400.7
62.5°	14084.0	14251.5	14331.6	14934.3	16164.9	17260.4	16182.4	14979.4	14194.0	14008.9	13858.9
65°	15507.1	15644.7	15734.7	16377.5	17553.0	18651.1	17633.1	16447.5	15639.7	15397.1	15277.0
67.5°	16169.9	16244.9	16465.1	17192.9	18433.5	19686.5	18643.5	17270.4	16367.5	15942.3	15947.3
70°	15199.5	15046.9	15577.1	16742.7	18538.5	20321.8	18778.6	16707.7	15602.2	14911.8	15076.9
72.5°	11745.4	11482.8	12403.2	14396.6	17338.0	19916.6	17458.0	14509.2	12976.0	11575.3	11923.0
75°	6390.4	6092.8	7363.4	9884.5	13826.3	17262.9	14144.0	10167.2	8198.8	6342.9	6755.6
77.5°	1803.3	1690.8	2716.2	4782.2	8316.3	12120.6	8636.5	4887.2	3221.5	1910.9	2123.5
80°	552.8	535.2	725.3	1440.7	3531.6	5805.2	3394.1	1458.2	922.9	582.8	615.3
82.5°	327.7	300.1	360.2	525.2	900.4	1823.3	875.4	547.8	440.2	295.1	320.1
85°	187.6	175.1	212.6	255.1	302.6	387.7	252.6	260.1	235.1	157.6	165.1
87.5°	77.5	70.0	82.5	80.0	70.0	90.0	67.5	80.0	95.0	62.5	57.5
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)