

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: P944670

Luminaire Tested: **GALN-SB9D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944670
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-SB9D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86960 lumens
Efficiency: N/A
Efficacy: 132.2 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

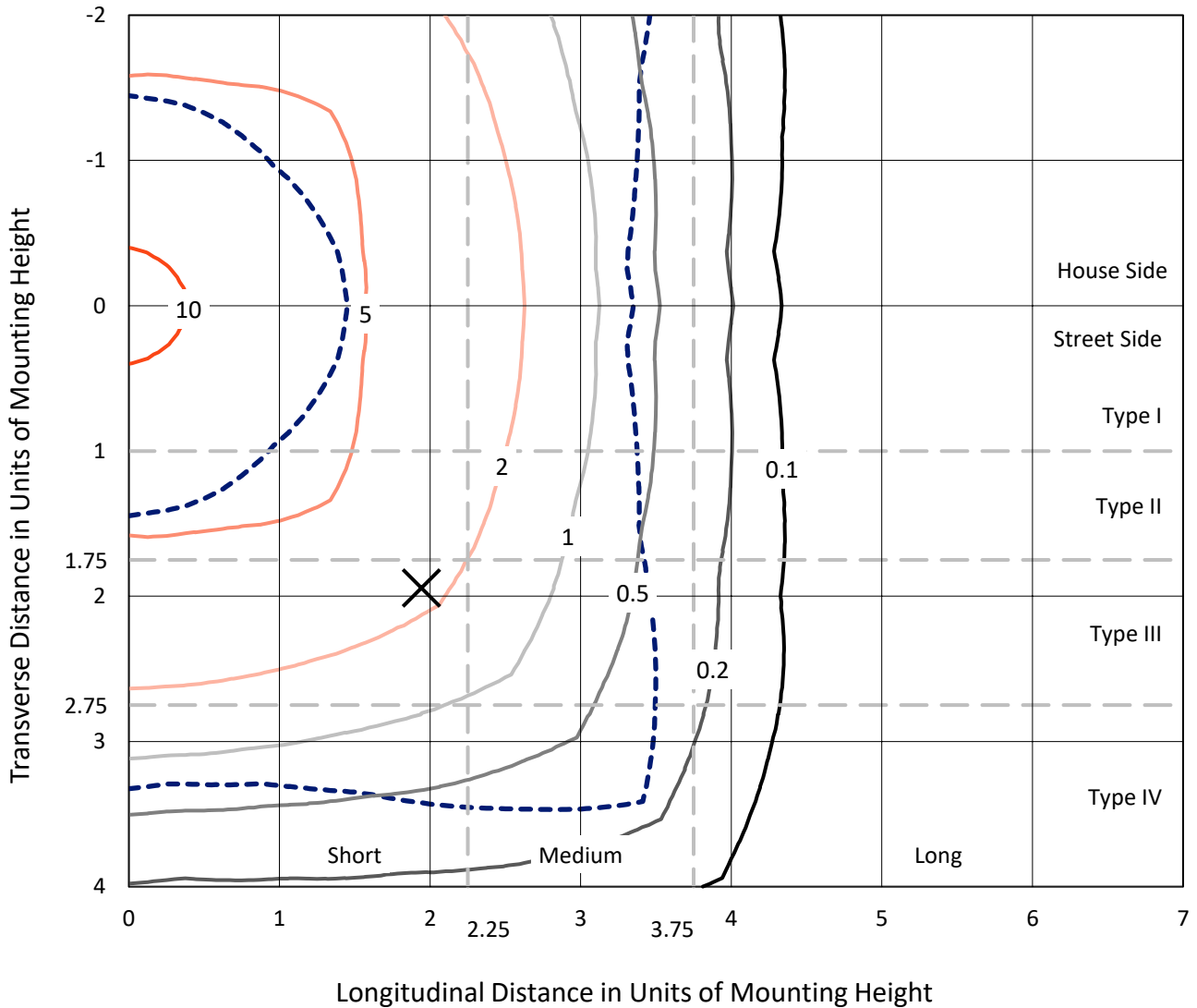
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

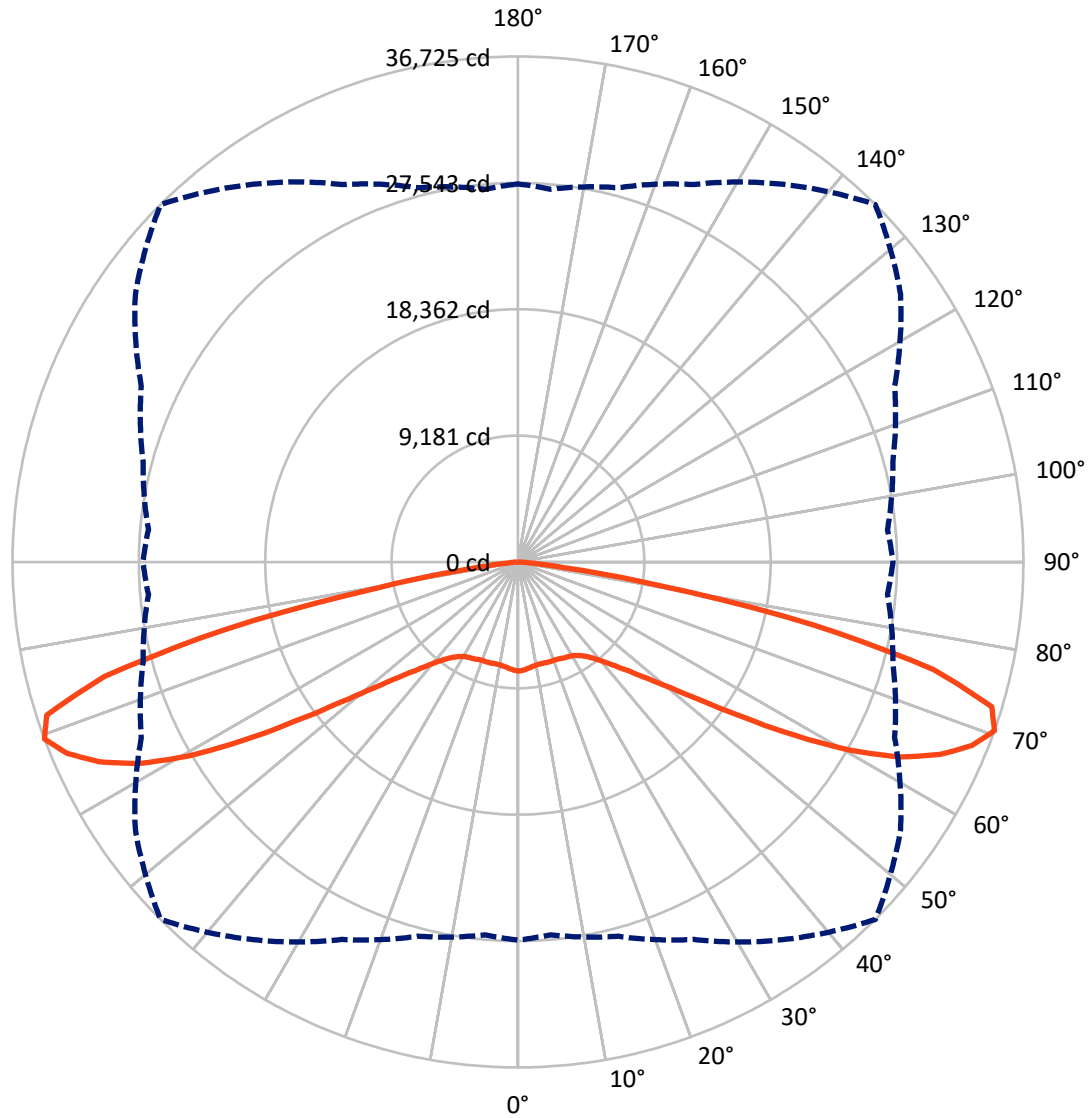
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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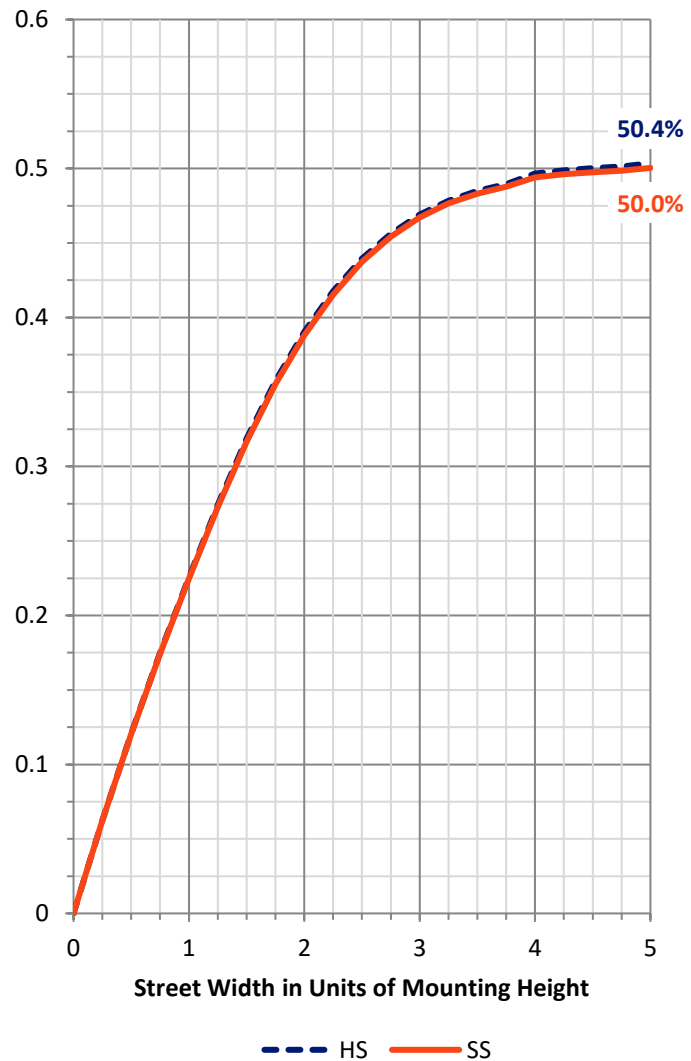
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	43480.0	0.0	43480.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43480.0	0.0	43480.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	86960.0	0.0	86960.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.9	0.8
10°-20°	2166.7	2.5
20°-30°	3605.7	4.1
30°-40°	5452.9	6.3
40°-50°	9061.4	10.4
50°-60°	17098.5	19.7
60°-70°	28871.5	33.2
70°-80°	18971.6	21.8
80°-90°	993.9	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°	86960.0	100.0
0°-180°	86960.0	100.0



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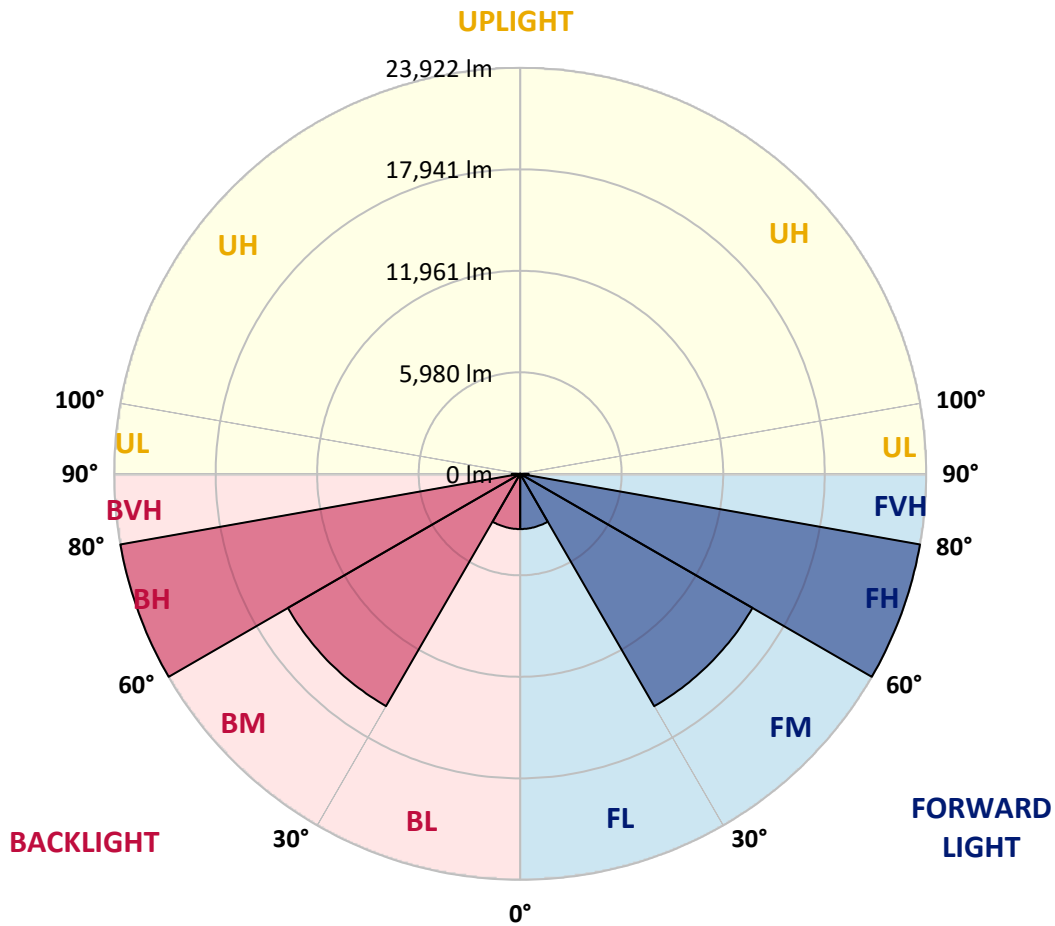
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.1	3.7			
FM (30°-60°)	15806.4	18.2			
FH (60°-80°)	23921.5	27.5			G5
FVH (80°-90°)	497.0	0.6			G3/500
BL (0°-30°)	3255.1	3.7	B4/5000		
BM (30°-60°)	15806.4	18.2	B5		
BH (60°-80°)	23921.5	27.5	B5		G5
BVH (80°-90°)	497.0	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°	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5	7932.5
2.5°	7882.8	7905.4	7896.3	7878.3	7878.3	7864.7	7878.3	7887.3	7900.9	7909.9	7905.4
5°	7778.8	7796.9	7792.4	7778.8	7783.3	7769.8	7778.8	7792.4	7801.4	7805.9	7805.9
7.5°	7688.4	7706.5	7697.5	7674.9	7674.9	7661.3	7665.8	7679.4	7692.9	7697.5	7697.5
10°	7665.8	7683.9	7656.8	7620.6	7607.1	7589.0	7593.5	7607.1	7634.2	7647.7	7647.7
12.5°	7674.9	7688.4	7661.3	7607.1	7593.5	7575.4	7575.4	7589.0	7625.1	7643.2	7647.7
15°	7702.0	7715.5	7674.9	7616.1	7602.5	7589.0	7584.5	7602.5	7643.2	7674.9	7679.4
17.5°	7751.7	7765.3	7702.0	7620.6	7602.5	7607.1	7602.5	7616.1	7679.4	7738.1	7738.1
20°	7796.9	7805.9	7720.1	7620.6	7602.5	7607.1	7602.5	7629.7	7711.0	7792.4	7796.9
22.5°	7810.5	7819.5	7738.1	7652.3	7638.7	7643.2	7638.7	7665.8	7742.7	7824.0	7824.0
25°	7815.0	7828.5	7765.3	7697.5	7720.1	7729.1	7720.1	7724.6	7783.3	7855.7	7851.1
27.5°	7882.8	7900.9	7842.1	7783.3	7796.9	7792.4	7805.9	7819.5	7864.7	7937.0	7918.9
30°	8022.9	8036.5	7986.7	7928.0	7918.9	7887.3	7928.0	7973.2	8022.9	8086.2	8072.6
32.5°	8253.4	8280.5	8217.3	8154.0	8113.3	8095.2	8126.9	8203.7	8271.5	8339.3	8312.2
35°	8637.6	8655.7	8596.9	8479.4	8407.1	8407.1	8434.2	8533.7	8642.1	8728.0	8696.4
37.5°	9180.0	9202.6	9098.6	8958.5	8850.1	8850.1	8886.2	8990.2	9152.9	9274.9	9229.7
40°	9839.9	9871.6	9740.5	9595.8	9491.9	9473.8	9519.0	9636.5	9790.2	9943.9	9894.2
42.5°	10635.4	10671.6	10499.8	10373.3	10291.9	10291.9	10314.5	10423.0	10563.1	10752.9	10739.4
45°	11652.4	11715.7	11480.7	11354.1	11277.3	11295.3	11308.9	11403.8	11530.4	11747.3	11738.3
47.5°	12863.8	12927.0	12678.4	12547.4	12533.8	12619.7	12565.4	12633.2	12701.0	12949.6	12877.3
50°	14237.8	14346.3	14174.5	14165.5	14192.6	14350.8	14224.3	14260.4	14183.6	14341.8	14246.9
52.5°	15919.2	16077.4	16045.8	16100.0	16402.9	16728.3	16439.0	16312.5	16023.2	16072.9	15905.7
55°	17957.7	18197.3	18242.5	18567.9	19255.0	19919.4	19304.7	18793.9	18179.2	18066.2	17889.9
57.5°	20276.5	20466.3	20683.3	21347.7	22631.4	23811.1	22631.4	21501.4	20534.1	20303.6	20140.9
60°	22771.5	23006.5	23214.4	24195.3	26102.7	27761.5	26066.5	24272.1	22993.0	22681.1	22409.9
62.5°	25451.8	25754.6	25899.3	26988.6	29212.4	31192.1	29244.0	27069.9	25650.7	25316.2	25045.0
65°	28023.7	28272.3	28435.0	29596.6	31721.0	33705.2	31865.6	29723.2	28263.2	27824.8	27607.8
67.5°	29221.4	29357.0	29754.8	31070.1	33312.0	35576.5	33691.7	31210.2	29578.5	28810.1	28819.2
70°	27467.7	27192.0	28150.2	30256.5	33501.8	36724.6	33935.7	30193.2	28195.4	26947.9	27246.2
72.5°	21225.7	20751.1	22414.4	26016.8	31332.3	35992.3	31549.2	26220.2	23449.5	20918.3	21546.6
75°	11548.5	11010.6	13306.7	17862.8	24986.3	31196.7	25560.3	18373.6	14816.4	11462.6	12208.4
77.5°	3258.9	3055.5	4908.7	8642.1	15028.8	21903.7	15607.4	8832.0	5821.7	3453.2	3837.4
80°	998.9	967.3	1310.8	2603.5	6382.2	10490.8	6133.6	2635.1	1667.9	1053.1	1111.9
82.5°	592.1	542.4	650.9	949.2	1627.2	3295.0	1582.0	989.9	795.5	533.4	578.6
85°	339.0	316.4	384.2	461.0	546.9	700.6	456.5	470.1	424.9	284.8	298.3
87.5°	140.1	126.6	149.2	144.6	126.6	162.7	122.0	144.6	171.8	113.0	104.0
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)