

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: P955561

Luminaire Tested: **GALN-SB8C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58824 lumens
Efficiency: N/A
Efficacy: 147.1 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): 399.8
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

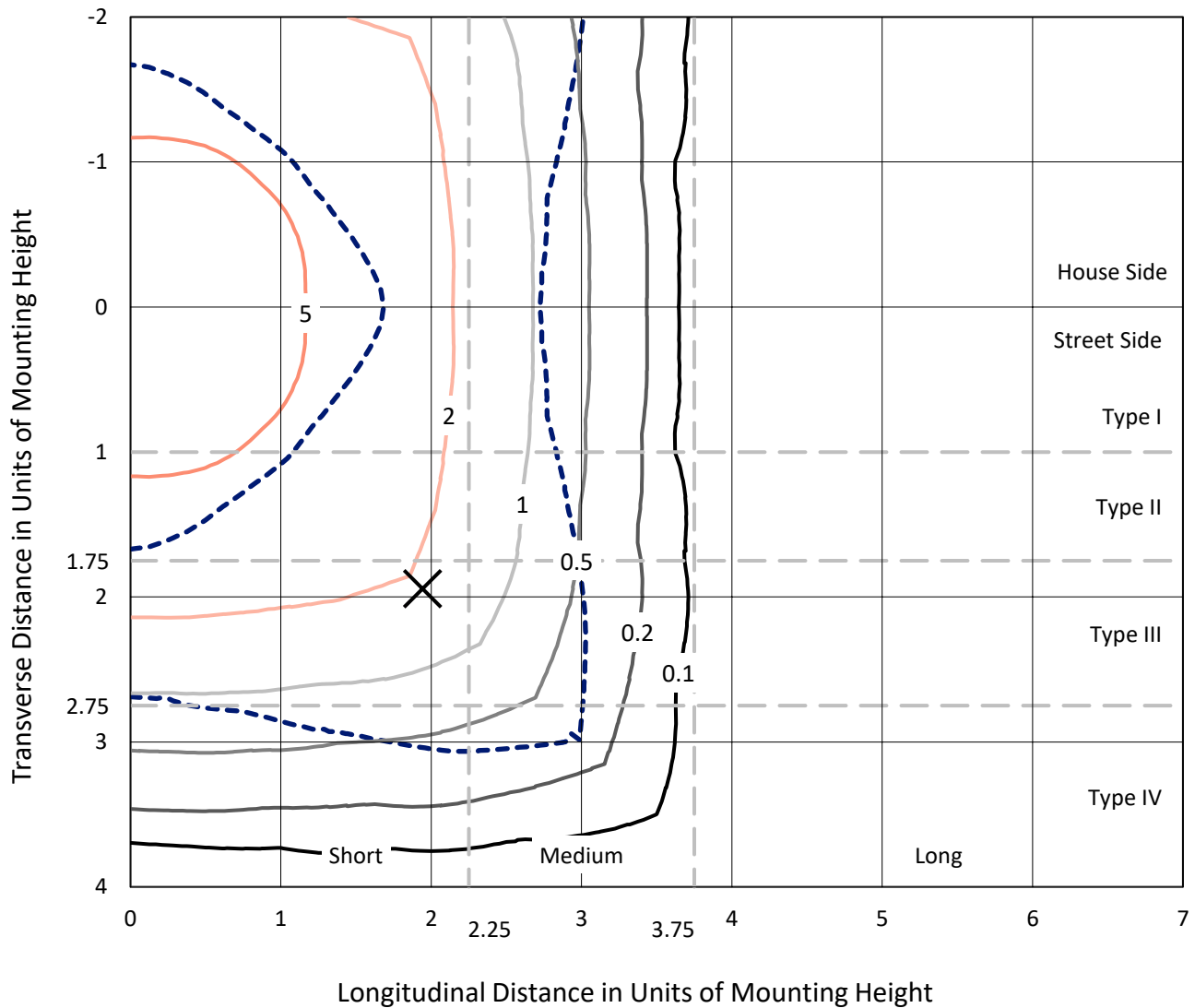


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

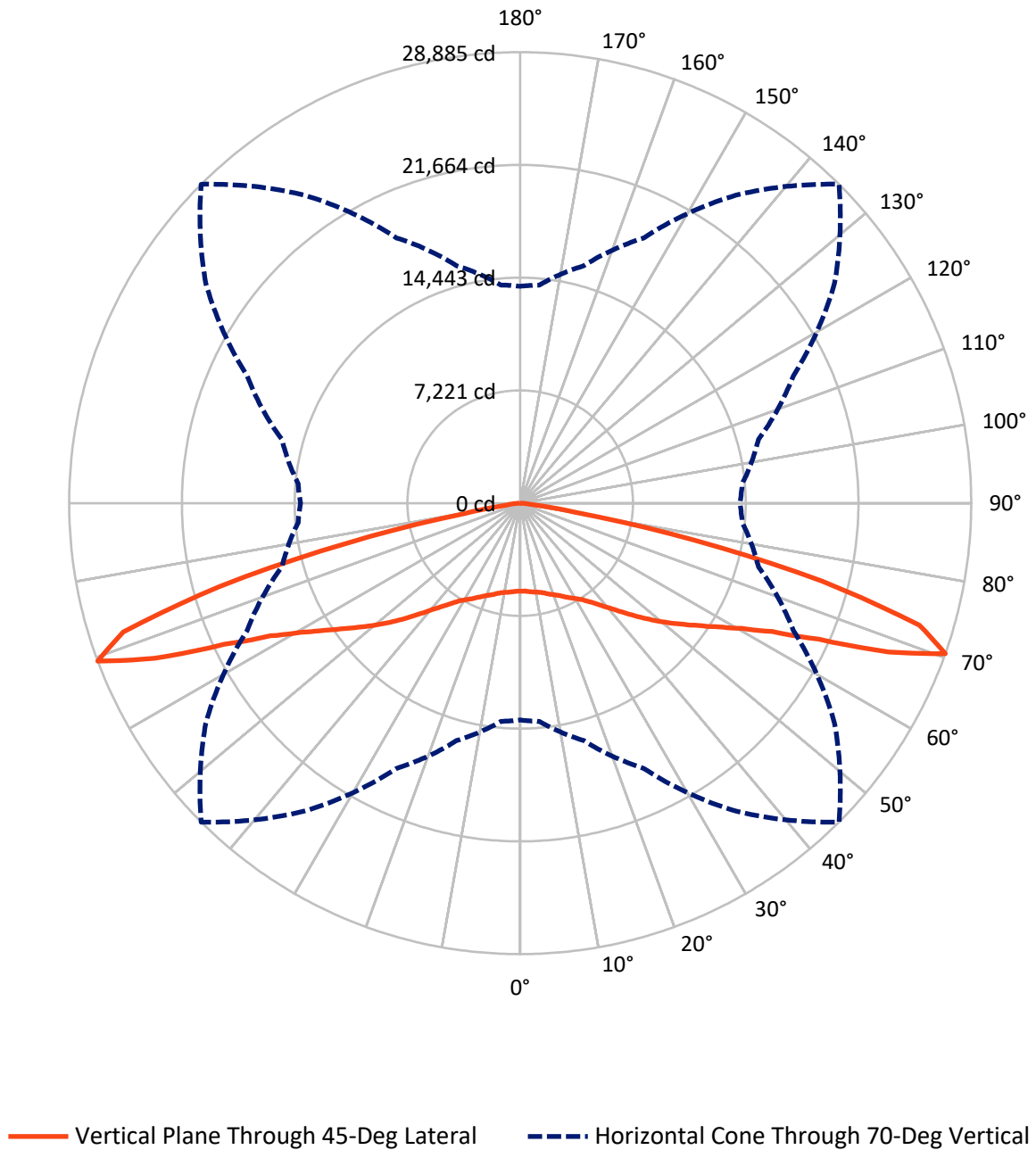


Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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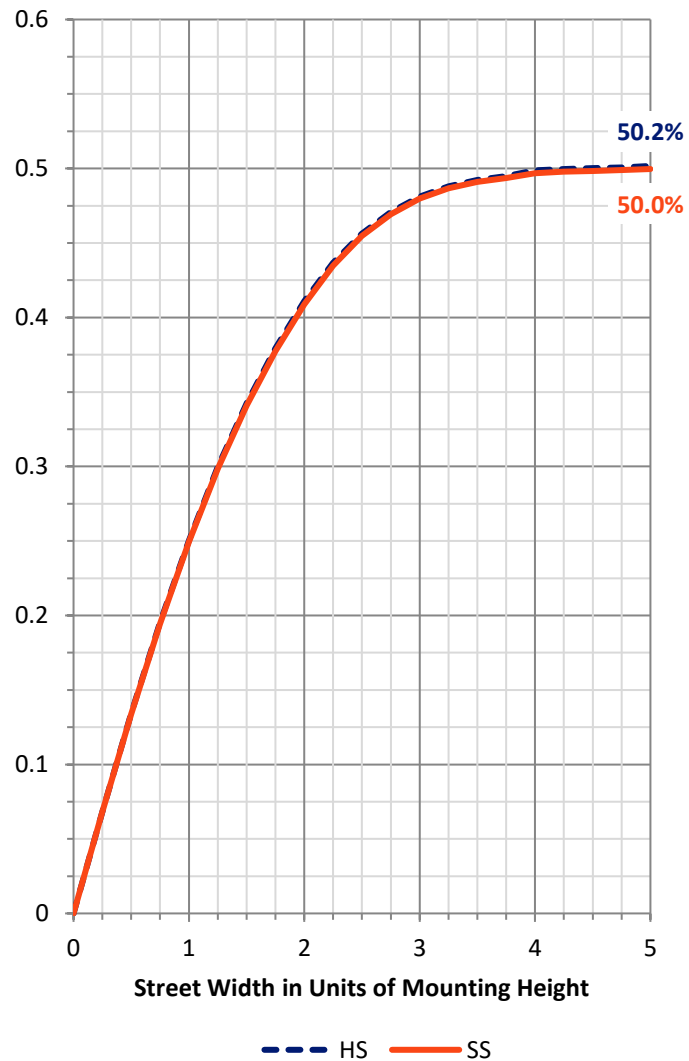
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29412.0	0.0	29412.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29412.0	0.0	29412.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58824.0	0.0	58824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.4	0.9
10°-20°	1697.5	2.9
20°-30°	3033.6	5.2
30°-40°	4917.4	8.4
40°-50°	8009.6	13.6
50°-60°	12211.9	20.8
60°-70°	18167.5	30.9
70°-80°	9901.9	16.8
80°-90°	337.2	0.6
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°	58824.0	100.0
0°-180°	58824.0	100.0

Coefficient of Utilization



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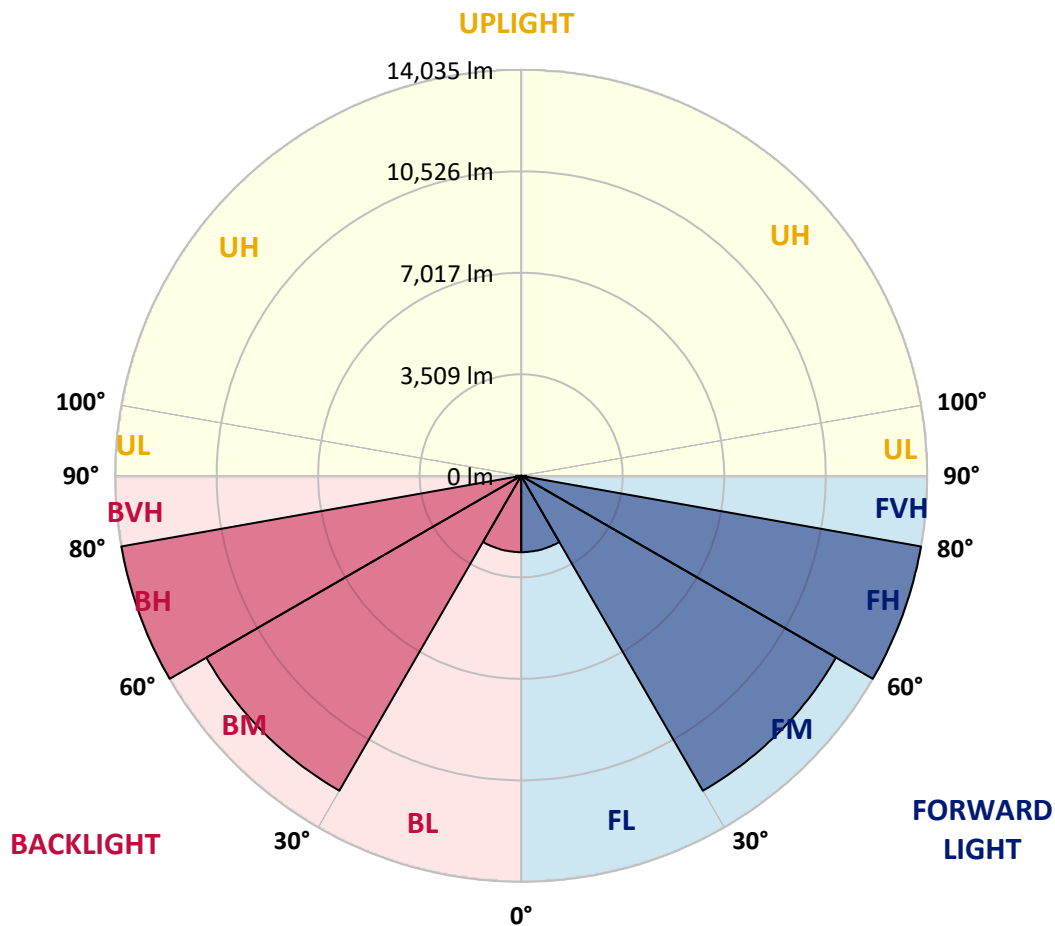
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2639.2	4.5			
FM	(30°-60°)	12569.5	21.4			
FH	(60°-80°)	14034.7	23.9			G5
FVH	(80°-90°)	168.6	0.3			G2/225
BL	(0°-30°)	2639.2	4.5	B4/5000		
BM	(30°-60°)	12569.5	21.4	B5		
BH	(60°-80°)	14034.7	23.9	B5		G5
BVH	(80°-90°)	168.6	0.3			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7	5634.7
2.5°	5661.3	5667.2	5655.4	5649.5	5643.6	5634.7	5637.7	5652.4	5664.3	5661.3	5664.3
5°	5708.6	5714.5	5705.6	5702.7	5690.8	5687.9	5687.9	5702.7	5711.5	5705.6	5708.6
7.5°	5761.7	5770.6	5755.8	5752.9	5747.0	5741.0	5738.1	5752.9	5761.7	5761.7	5761.7
10°	5811.9	5820.8	5809.0	5800.1	5794.2	5794.2	5788.3	5800.1	5814.9	5811.9	5811.9
12.5°	5865.1	5871.0	5859.2	5853.3	5853.3	5862.1	5853.3	5859.2	5871.0	5865.1	5862.1
15°	5930.1	5933.0	5930.1	5938.9	5953.7	5983.2	5956.6	5950.7	5956.6	5941.9	5941.9
17.5°	6018.6	6024.6	6036.4	6057.0	6077.7	6130.9	6083.6	6068.9	6068.9	6039.3	6039.3
20°	6127.9	6136.8	6154.5	6189.9	6216.5	6266.7	6219.5	6198.8	6189.9	6151.5	6151.5
22.5°	6243.1	6257.9	6284.4	6331.7	6378.9	6426.2	6378.9	6343.5	6316.9	6266.7	6263.8
25°	6376.0	6393.7	6435.1	6511.8	6576.8	6644.7	6588.6	6517.7	6464.6	6393.7	6390.8
27.5°	6565.0	6585.7	6635.9	6730.4	6813.1	6872.1	6819.0	6727.4	6653.6	6567.9	6565.0
30°	6830.8	6851.5	6910.5	7010.9	7067.0	7105.4	7070.0	6999.1	6910.5	6813.1	6813.1
32.5°	7173.4	7199.9	7264.9	7359.4	7371.2	7377.1	7365.3	7329.9	7264.9	7146.8	7149.7
35°	7607.5	7637.0	7710.8	7787.6	7775.8	7787.6	7769.9	7758.1	7710.8	7575.0	7575.0
37.5°	8139.1	8174.5	8251.3	8310.3	8280.8	8266.0	8269.0	8271.9	8245.4	8094.8	8094.8
40°	8756.3	8803.5	8859.6	8921.7	8871.5	8827.2	8856.7	8880.3	8856.7	8703.1	8703.1
42.5°	9391.2	9459.1	9518.2	9606.8	9565.5	9509.3	9550.7	9577.3	9527.1	9361.7	9373.5
45°	10097.0	10162.0	10238.8	10371.7	10342.2	10283.1	10342.2	10348.1	10262.4	10067.5	10088.2
47.5°	10826.5	10894.4	11009.6	11186.8	11175.0	11110.0	11186.8	11145.4	11036.2	10802.9	10788.1
50°	11517.5	11612.0	11789.2	12037.3	12060.9	11981.2	12084.5	12004.8	11821.7	11529.3	11523.4
52.5°	12167.2	12267.6	12548.2	12884.9	12970.5	12867.1	13005.9	12867.1	12592.5	12217.4	12182.0
55°	12849.4	12961.7	13295.4	13735.4	13906.7	13829.9	13959.8	13750.2	13360.3	12905.5	12843.5
57.5°	13652.7	13720.6	14119.3	14642.0	14931.4	14949.2	15008.2	14653.8	14181.3	13664.5	13593.6
60°	14523.9	14618.4	15052.5	15678.6	16136.4	16284.0	16222.0	15696.3	15147.0	14553.4	14458.9
62.5°	15640.2	15743.6	16263.3	17013.5	17737.0	18103.2	17861.0	17099.1	16419.9	15708.1	15584.1
65°	16564.6	16679.7	17618.9	18956.7	20273.8	21009.2	20400.8	18998.0	17775.4	16771.3	16605.9
67.5°	15894.2	16035.9	17509.6	19966.7	23241.8	25436.0	23354.0	20267.9	17872.8	16511.4	16307.6
70°	13891.9	14024.8	15743.6	18747.0	24077.5	28885.4	24579.6	19299.2	15799.7	14275.8	14072.1
72.5°	9222.9	9651.1	11390.5	14993.5	21499.4	26729.5	21712.0	14689.3	10566.6	9202.2	8903.9
75°	3059.5	3402.1	4589.3	7772.9	14399.9	19990.3	13708.8	6878.0	3635.4	2616.5	2474.8
77.5°	770.8	888.9	1225.6	2223.8	5744.0	11381.7	5171.1	1816.2	989.3	691.1	617.2
80°	375.1	413.4	590.6	741.3	1438.2	3617.7	1349.6	697.0	466.6	360.3	330.8
82.5°	206.7	209.7	333.7	419.4	534.5	936.2	555.2	407.5	268.7	218.5	218.5
85°	127.0	124.0	177.2	224.4	224.4	333.7	265.8	224.4	153.6	135.8	141.8
87.5°	50.2	50.2	65.0	70.9	62.0	85.6	67.9	73.8	59.1	56.1	59.1
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)