

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: P951278

Luminaire Tested: **GALN-SB5C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36770 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.5
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

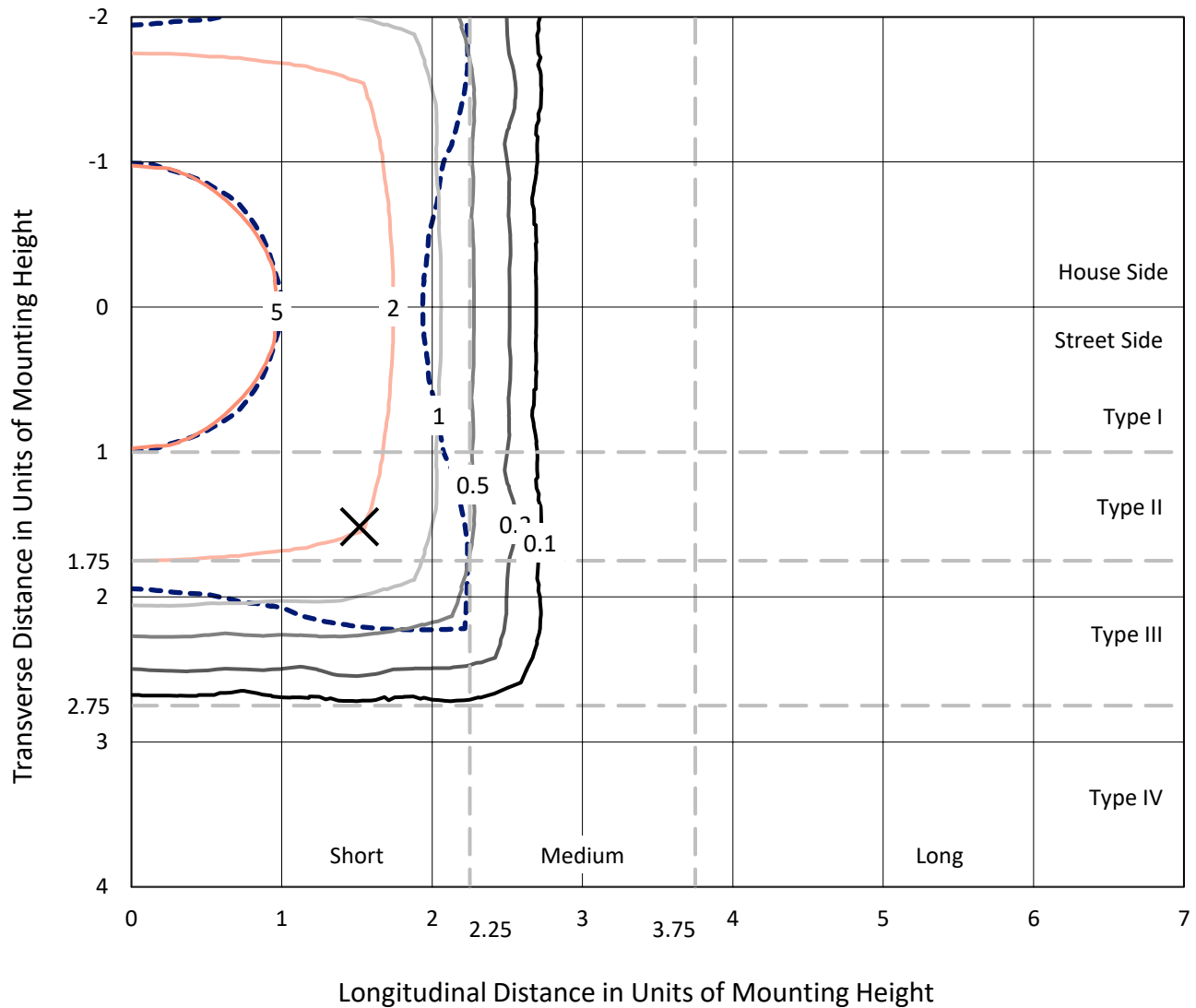


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

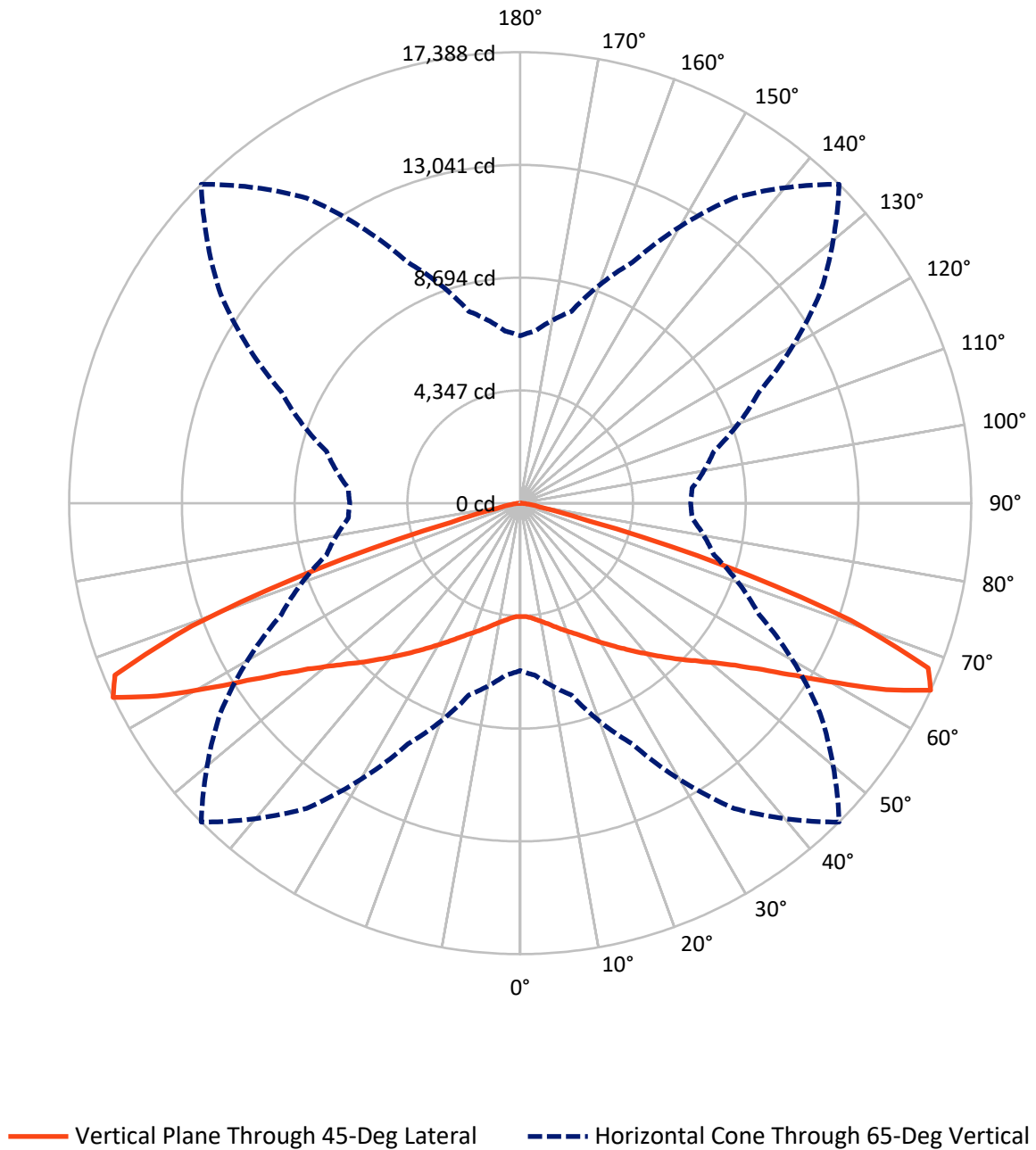


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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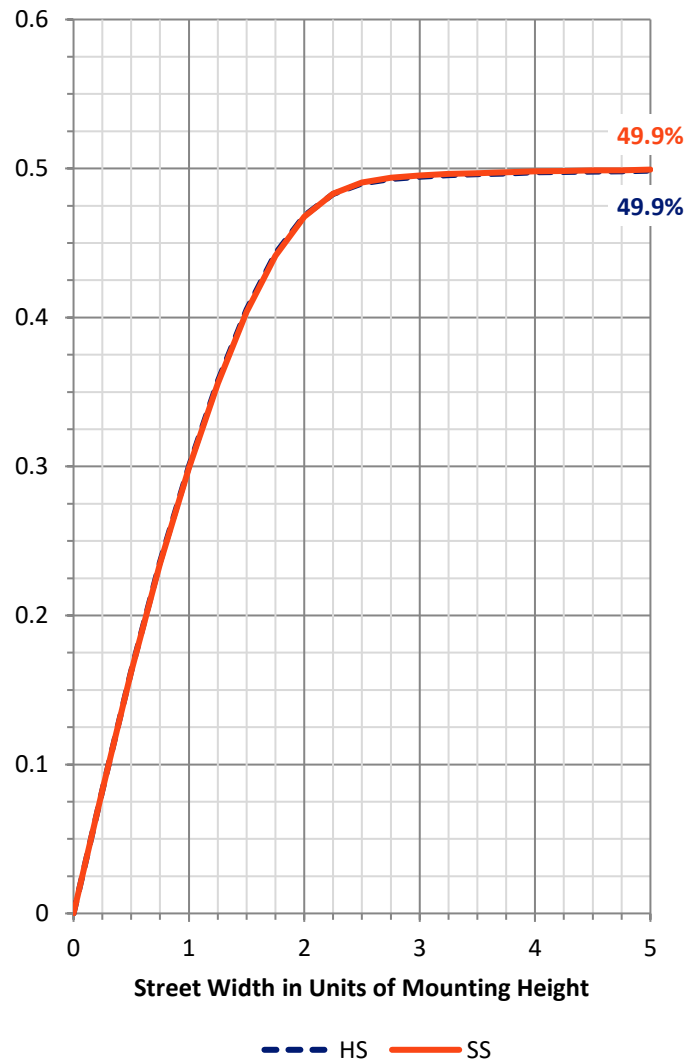
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18385.0	0.0	18385.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18385.0	0.0	18385.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36770.0	0.0	36770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	1.2
10°-20°	1409.2	3.8
20°-30°	2660.8	7.2
30°-40°	4356.9	11.8
40°-50°	6755.4	18.4
50°-60°	9979.2	27.1
60°-70°	9499.3	25.8
70°-80°	1532.8	4.2
80°-90°	144.5	0.4
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°	36770.0	100.0
0°-180°	36770.0	100.0

Coefficient of Utilization



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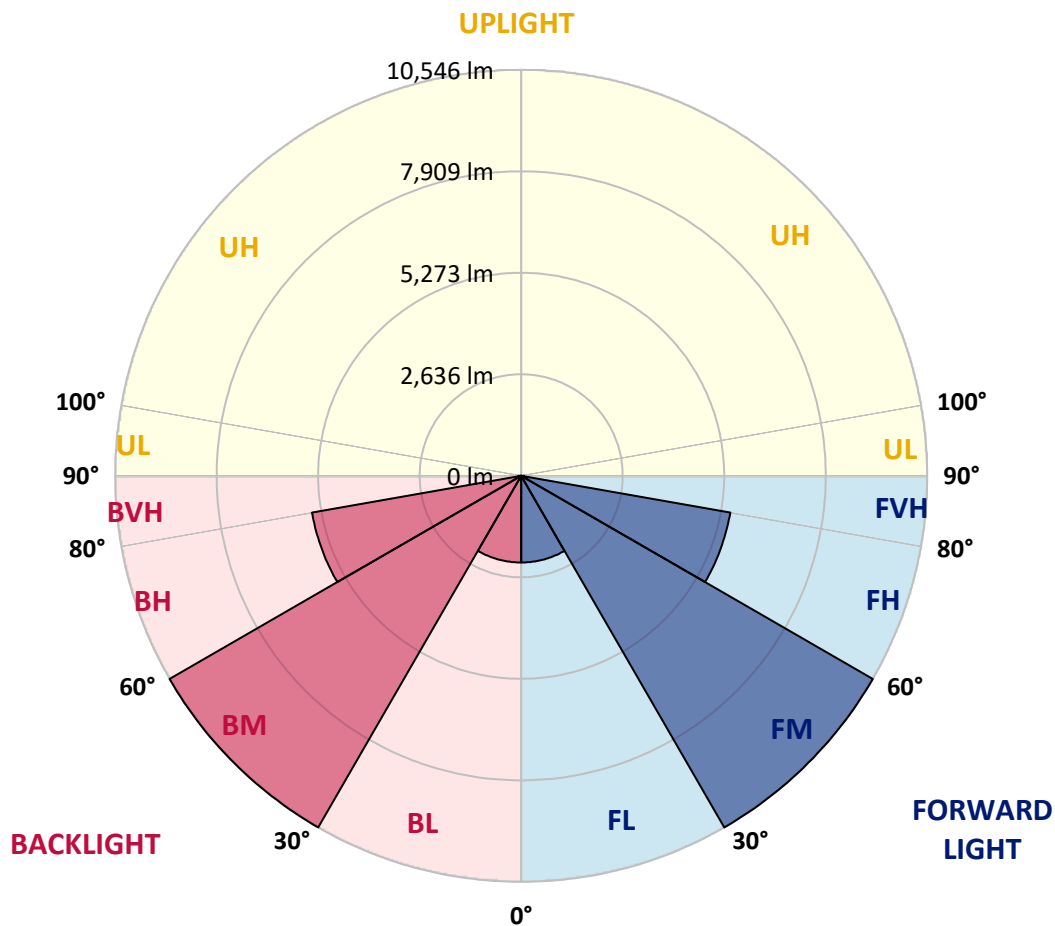
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.9	6.1			
FM	(30°-60°)	10545.8	28.7			
FH	(60°-80°)	5516.0	15.0			G3/7500
FVH	(80°-90°)	72.2	0.2			G1/100
BL	(0°-30°)	2250.9	6.1	B3/2500		
BM	(30°-60°)	10545.8	28.7	B5		
BH	(60°-80°)	5516.0	15.0	B5		G3/7500
BVH	(80°-90°)	72.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4405.5	4390.8	4401.8	4392.6	4385.2	4377.8	4381.5	4394.4	4400.0	4401.8	4401.8
5°	4464.6	4451.6	4457.2	4457.2	4444.3	4440.6	4442.4	4451.6	4462.7	4462.7	4462.7
7.5°	4560.5	4547.6	4560.5	4553.1	4542.0	4538.3	4536.5	4543.9	4560.5	4560.5	4554.9
10°	4676.7	4662.0	4669.3	4665.6	4652.7	4647.2	4645.3	4656.4	4671.2	4669.3	4665.6
12.5°	4804.0	4787.4	4796.6	4785.6	4781.9	4776.3	4776.3	4774.5	4783.7	4776.3	4780.0
15°	4946.1	4935.0	4938.7	4931.3	4936.8	4933.1	4918.4	4911.0	4914.7	4903.6	4905.5
17.5°	5113.9	5088.1	5101.0	5097.3	5097.3	5104.7	5080.7	5071.5	5078.9	5067.8	5077.0
20°	5307.6	5281.8	5287.4	5280.0	5270.8	5278.1	5248.6	5256.0	5261.5	5254.1	5270.8
22.5°	5519.8	5486.6	5484.8	5488.4	5468.2	5470.0	5449.7	5468.2	5479.2	5458.9	5479.2
25°	5737.5	5702.4	5726.4	5717.2	5691.4	5696.9	5682.2	5700.6	5709.8	5684.0	5713.5
27.5°	5968.1	5944.1	5966.3	5971.8	5940.4	5962.6	5940.4	5957.0	5966.3	5927.5	5957.0
30°	6237.5	6213.5	6233.8	6248.5	6211.6	6246.7	6228.2	6239.3	6241.1	6195.0	6222.7
32.5°	6530.8	6493.9	6545.5	6552.9	6512.3	6554.8	6530.8	6545.5	6554.8	6492.0	6534.5
35°	6888.7	6842.6	6901.6	6892.4	6857.3	6892.4	6870.2	6892.4	6914.5	6838.9	6885.0
37.5°	7274.3	7226.3	7289.0	7272.4	7239.2	7263.2	7250.3	7265.0	7300.1	7218.9	7268.7
40°	7698.6	7639.5	7724.4	7694.9	7663.5	7659.8	7667.2	7676.4	7722.6	7632.2	7661.7
42.5°	8152.4	8089.7	8217.0	8170.9	8126.6	8097.1	8121.1	8139.5	8183.8	8082.3	8135.8
45°	8670.8	8598.9	8764.9	8709.6	8639.5	8578.6	8617.3	8645.0	8709.6	8587.8	8650.5
47.5°	9242.7	9161.6	9338.7	9322.1	9207.7	9074.8	9163.4	9242.7	9290.7	9143.1	9192.9
50°	9801.7	9739.0	9971.4	9991.7	9851.5	9665.2	9788.8	9908.7	9921.6	9727.9	9751.9
52.5°	10325.7	10262.9	10600.5	10727.8	10602.4	10381.0	10512.0	10633.7	10536.0	10285.1	10292.5
55°	10744.4	10692.8	11122.6	11451.0	11493.5	11310.8	11388.3	11384.6	11063.6	10678.0	10690.9
57.5°	10845.9	10838.5	11380.9	12076.4	12519.2	12541.3	12388.2	11997.1	11305.3	10786.9	10753.7
60°	10384.7	10430.8	11176.1	12403.0	13583.7	14074.4	13412.1	12296.0	11030.4	10310.9	10226.0
62.5°	9004.7	9126.5	10024.9	12004.5	14443.4	15838.1	14233.1	11842.1	9901.3	8962.3	8907.0
65°	6453.3	6665.5	7658.0	10244.5	14365.9	17387.8	14115.0	10161.5	7731.8	6648.9	6569.5
67.5°	2927.8	3143.6	3986.7	7014.1	12487.8	16967.1	12458.3	7087.9	4186.0	3154.7	3108.6
70°	1060.8	1097.7	1368.9	2807.9	7980.8	13519.1	8322.1	2828.2	1455.6	1169.6	1154.9
72.5°	642.0	647.5	704.7	1005.4	2772.8	8207.8	2890.9	1038.7	719.5	638.3	649.4
75°	407.7	404.0	501.8	614.3	983.3	2769.1	1031.3	614.3	500.0	455.7	459.4
77.5°	293.3	302.6	359.7	459.4	619.9	939.0	608.8	439.1	359.7	295.2	300.7
80°	219.5	225.1	262.0	357.9	435.4	584.8	387.4	324.7	271.2	184.5	190.0
82.5°	158.7	158.7	171.6	260.1	265.7	315.5	210.3	228.8	179.0	131.0	131.0
85°	94.1	92.2	107.0	155.0	138.4	116.2	95.9	140.2	112.5	81.2	79.3
87.5°	33.2	35.1	33.2	44.3	36.9	31.4	29.5	38.7	31.4	27.7	25.8
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)