

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: P954848

Luminaire Tested: **GALN-SB8A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954848
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-SB8A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35255 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 227.1
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

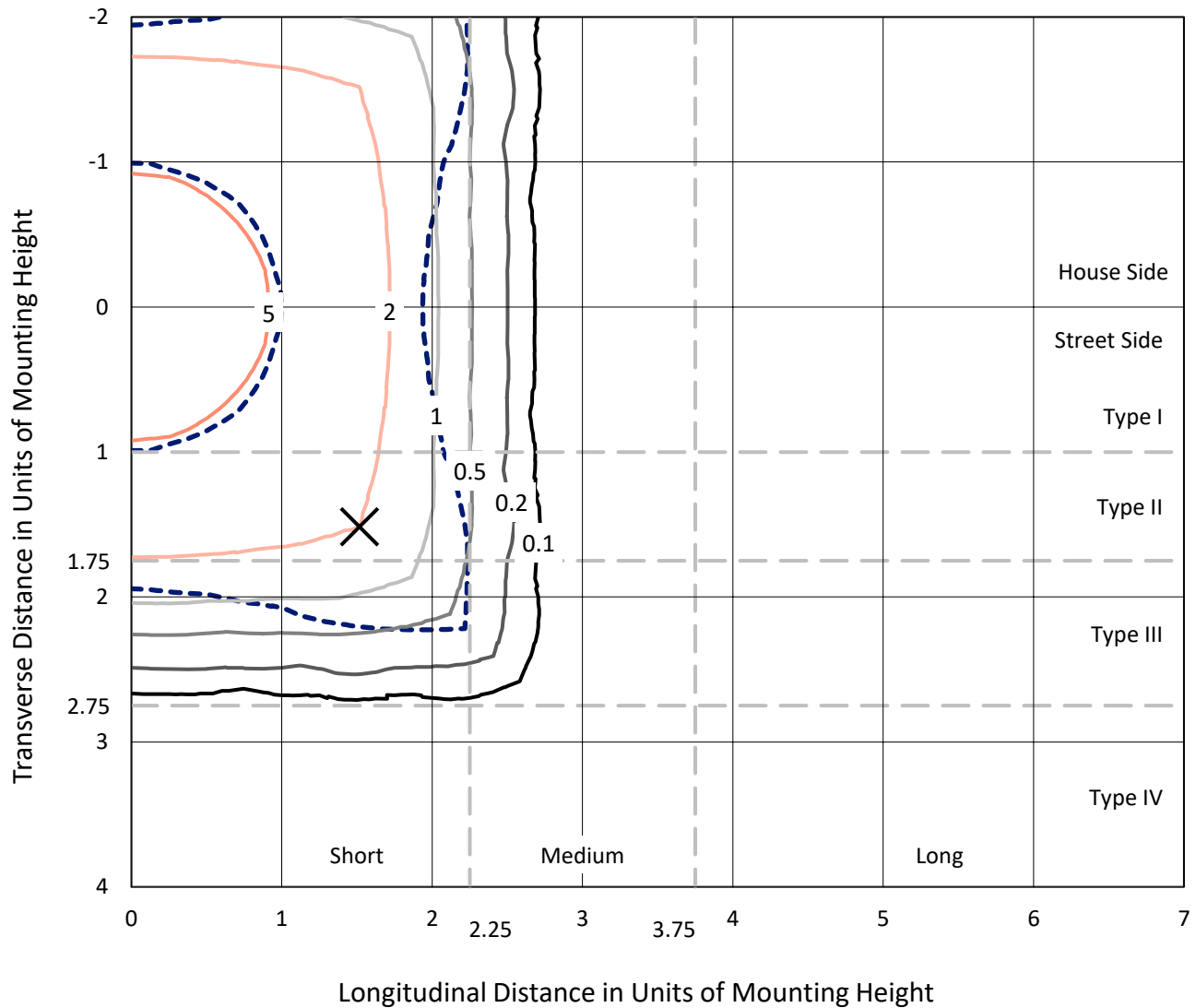


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

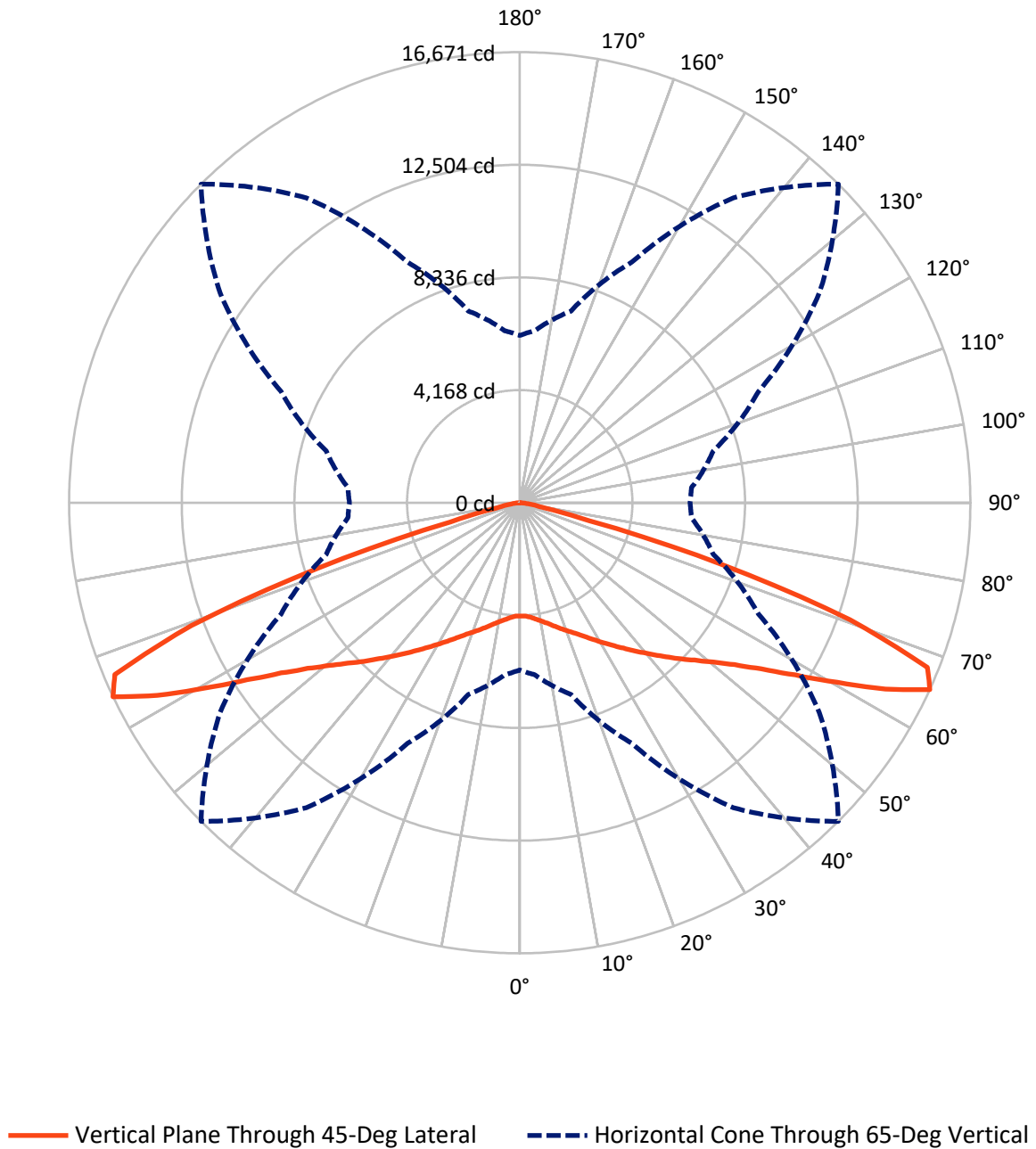


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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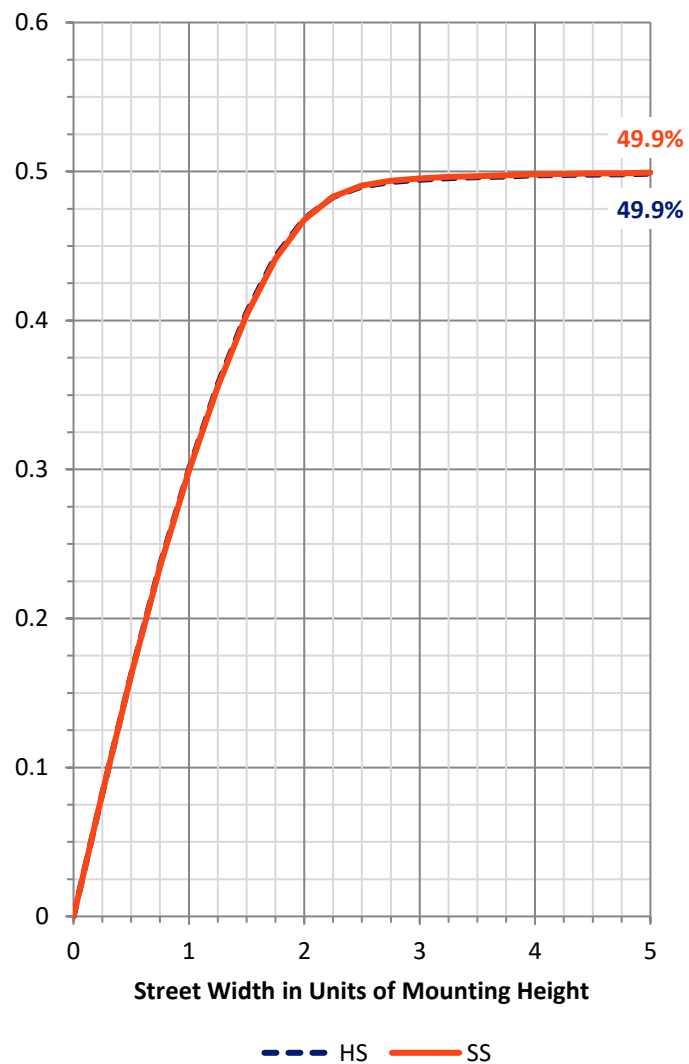
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17627.5	0.0	17627.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17627.5	0.0	17627.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35255.0	0.0	35255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.2
10°-20°	1351.2	3.8
20°-30°	2551.1	7.2
30°-40°	4177.4	11.8
40°-50°	6477.1	18.4
50°-60°	9568.0	27.1
60°-70°	9107.9	25.8
70°-80°	1469.7	4.2
80°-90°	138.5	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°	35255.0	100.0
0°-180°	35255.0	100.0

Coefficient of Utilization



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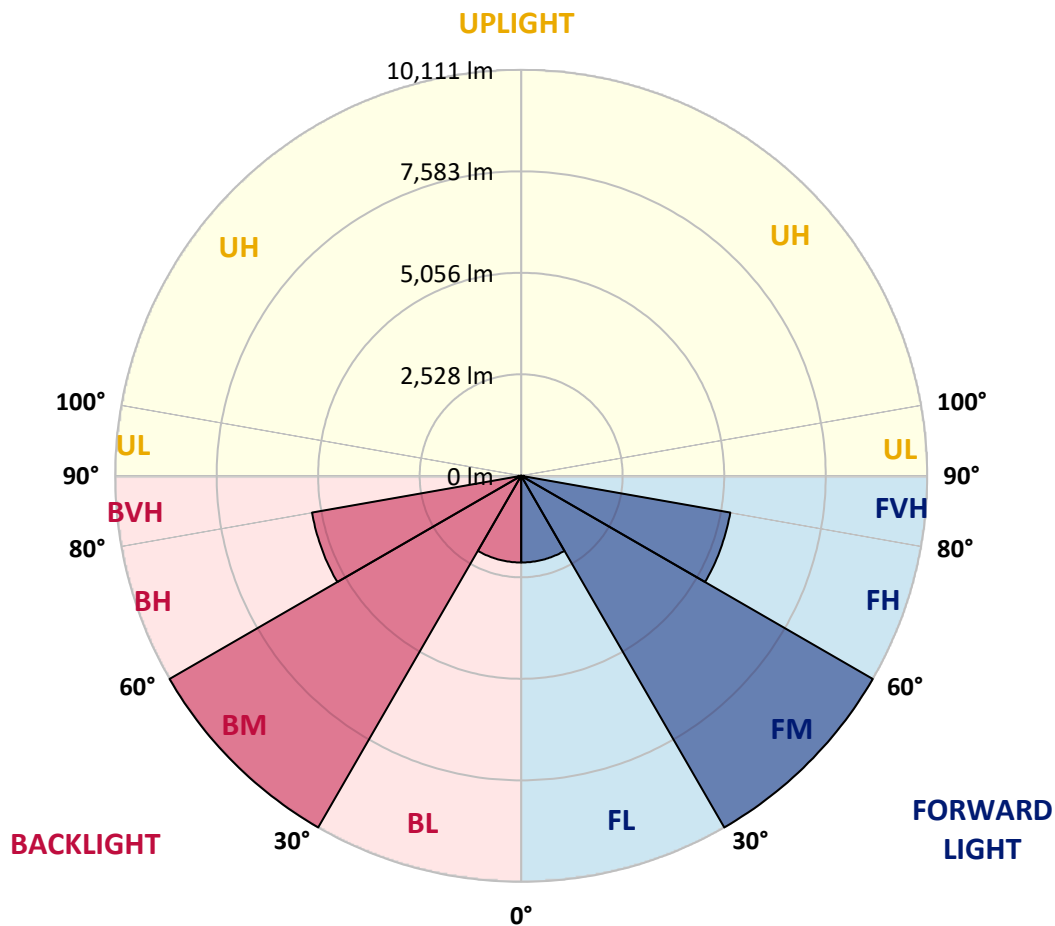
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.2	6.1			
FM	(30°-60°)	10111.3	28.7			
FH	(60°-80°)	5288.8	15.0			G3/7500
FVH	(80°-90°)	69.3	0.2			G1/100
BL	(0°-30°)	2158.2	6.1	B3/2500		
BM	(30°-60°)	10111.3	28.7	B5		
BH	(60°-80°)	5288.8	15.0	B5		G3/7500
BVH	(80°-90°)	69.3	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°	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7
2.5°	4224.0	4209.8	4220.5	4211.6	4204.5	4197.5	4201.0	4213.4	4218.7	4220.5	4220.5
5°	4280.6	4268.2	4273.5	4273.5	4261.1	4257.6	4259.4	4268.2	4278.8	4278.8	4278.8
7.5°	4372.6	4360.2	4372.6	4365.5	4354.9	4351.4	4349.6	4356.7	4372.6	4372.6	4367.3
10°	4484.0	4469.9	4476.9	4473.4	4461.0	4455.7	4453.9	4464.6	4478.7	4476.9	4473.4
12.5°	4606.1	4590.1	4599.0	4588.4	4584.8	4579.5	4579.5	4577.8	4586.6	4579.5	4583.1
15°	4742.3	4731.7	4735.2	4728.1	4733.4	4729.9	4715.7	4708.7	4712.2	4701.6	4703.4
17.5°	4903.2	4878.5	4890.9	4887.3	4887.3	4894.4	4871.4	4862.6	4869.6	4859.0	4867.9
20°	5089.0	5064.2	5069.5	5062.4	5053.6	5060.7	5032.4	5039.4	5044.7	5037.7	5053.6
22.5°	5292.4	5260.5	5258.8	5262.3	5242.9	5244.6	5225.2	5242.9	5253.5	5234.0	5253.5
25°	5501.1	5467.5	5490.5	5481.6	5456.9	5462.2	5448.0	5465.7	5474.6	5449.8	5478.1
27.5°	5722.2	5699.2	5720.4	5725.7	5695.7	5716.9	5695.7	5711.6	5720.4	5683.3	5711.6
30°	5980.5	5957.5	5976.9	5991.1	5955.7	5989.3	5971.6	5982.2	5984.0	5939.8	5966.3
32.5°	6261.7	6226.3	6275.9	6282.9	6244.0	6284.7	6261.7	6275.9	6284.7	6224.6	6265.2
35°	6604.9	6560.6	6617.2	6608.4	6574.8	6608.4	6587.2	6608.4	6629.6	6557.1	6601.3
37.5°	6974.6	6928.6	6988.7	6972.8	6940.9	6963.9	6951.6	6965.7	6999.3	6921.5	6969.2
40°	7381.4	7324.8	7406.1	7377.8	7347.8	7344.2	7351.3	7360.2	7404.4	7317.7	7346.0
42.5°	7816.5	7756.4	7878.4	7834.2	7791.8	7763.5	7786.5	7804.1	7846.6	7749.3	7800.6
45°	8313.6	8244.6	8403.8	8350.7	8283.5	8225.1	8262.3	8288.8	8350.7	8234.0	8294.1
47.5°	8861.9	8784.1	8953.9	8938.0	8828.3	8700.9	8785.8	8861.9	8907.9	8766.4	8814.1
50°	9397.9	9337.7	9560.6	9580.1	9445.6	9267.0	9385.5	9500.5	9512.8	9327.1	9350.1
52.5°	9900.2	9840.1	10163.8	10285.8	10165.5	9953.3	10078.9	10195.6	10101.9	9861.3	9868.4
55°	10301.7	10252.2	10664.4	10979.2	11019.9	10844.8	10919.1	10915.5	10607.8	10238.1	10250.5
57.5°	10399.0	10392.0	10912.0	11578.9	12003.4	12024.6	11877.8	11502.8	10839.5	10342.4	10310.6
60°	9956.8	10001.0	10715.7	11891.9	13024.0	13494.5	12859.5	11789.3	10575.9	9886.1	9804.7
62.5°	8633.7	8750.5	9611.9	11509.9	13848.3	15185.5	13646.6	11354.2	9493.4	8593.0	8540.0
65°	6187.4	6390.8	7342.5	9822.4	13774.0	16671.4	13533.4	9742.8	7413.2	6374.9	6298.9
67.5°	2807.2	3014.1	3822.5	6725.1	11973.3	16268.1	11945.0	6795.9	4013.5	3024.7	2980.5
70°	1017.1	1052.5	1312.5	2692.2	7652.0	12962.1	7979.3	2711.6	1395.6	1121.4	1107.3
72.5°	615.6	620.9	675.7	964.0	2658.6	7869.6	2771.8	995.9	689.8	612.0	622.6
75°	390.9	387.4	481.1	589.0	942.8	2655.0	988.8	589.0	479.4	436.9	440.4
77.5°	281.2	290.1	344.9	440.4	594.3	900.3	583.7	421.0	344.9	283.0	288.3
80°	210.5	215.8	251.2	343.2	417.4	560.7	371.5	311.3	260.0	176.9	182.2
82.5°	152.1	152.1	164.5	249.4	254.7	302.5	201.6	219.3	171.6	125.6	125.6
85°	90.2	88.4	102.6	148.6	132.7	111.4	92.0	134.4	107.9	77.8	76.1
87.5°	31.8	33.6	31.8	42.5	35.4	30.1	28.3	37.1	30.1	26.5	24.8
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)