

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: P955562

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955562
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-SB8C-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 58860 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

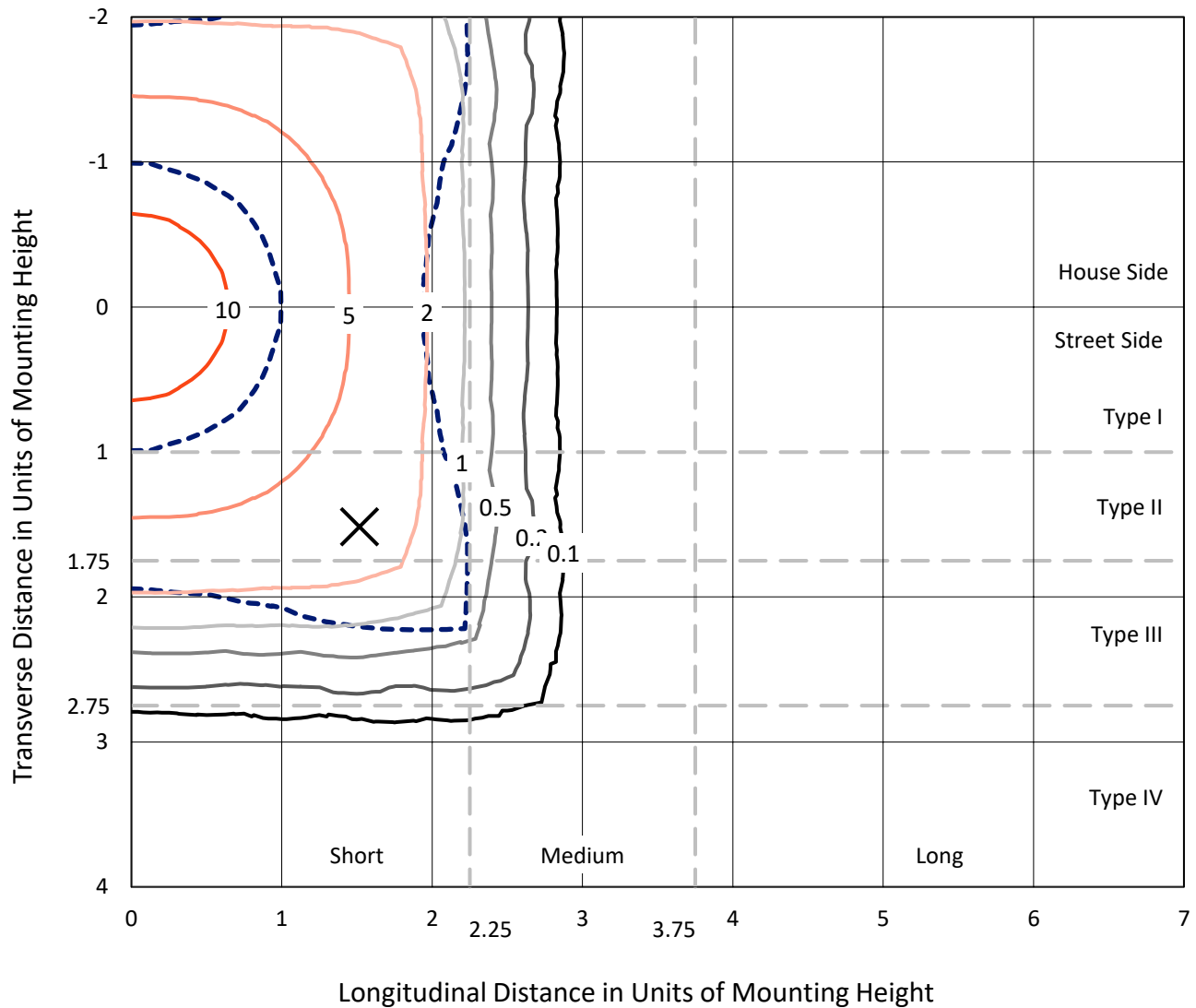


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

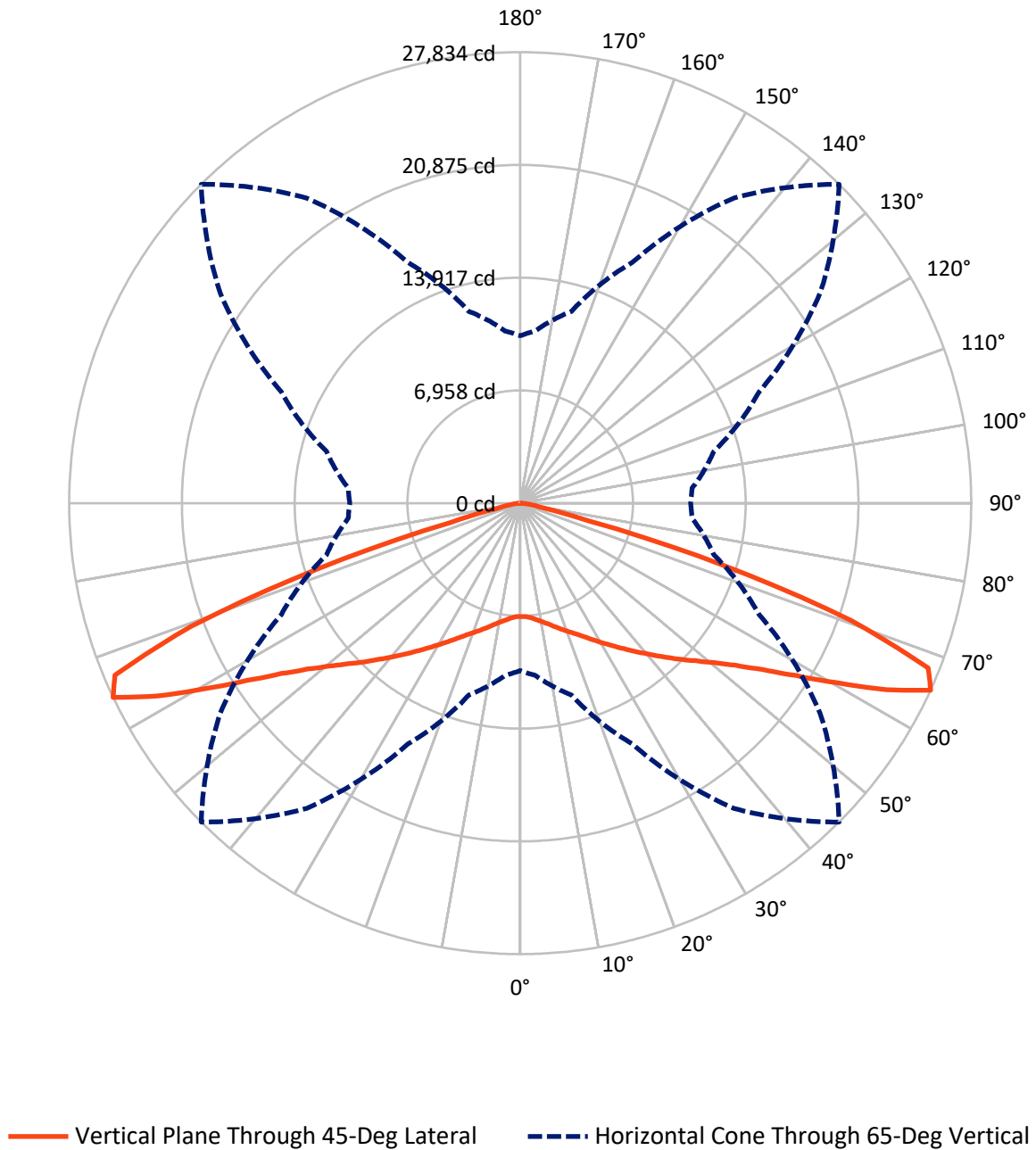


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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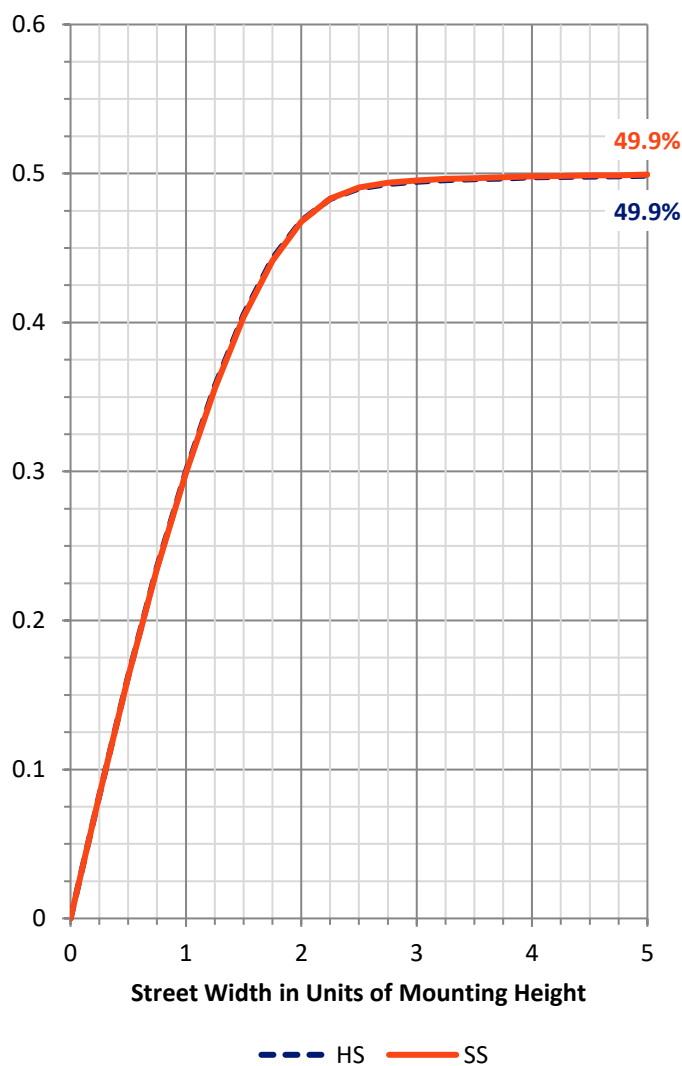
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29430.0	0.0	29430.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29430.0	0.0	29430.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58860.0	0.0	58860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.3	1.2
10°-20°	2255.8	3.8
20°-30°	4259.3	7.2
30°-40°	6974.4	11.8
40°-50°	10813.9	18.4
50°-60°	15974.3	27.1
60°-70°	15206.1	25.8
70°-80°	2453.7	4.2
80°-90°	231.3	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°	58860.0	100.0
0°-180°	58860.0	100.0

Coefficient of Utilization



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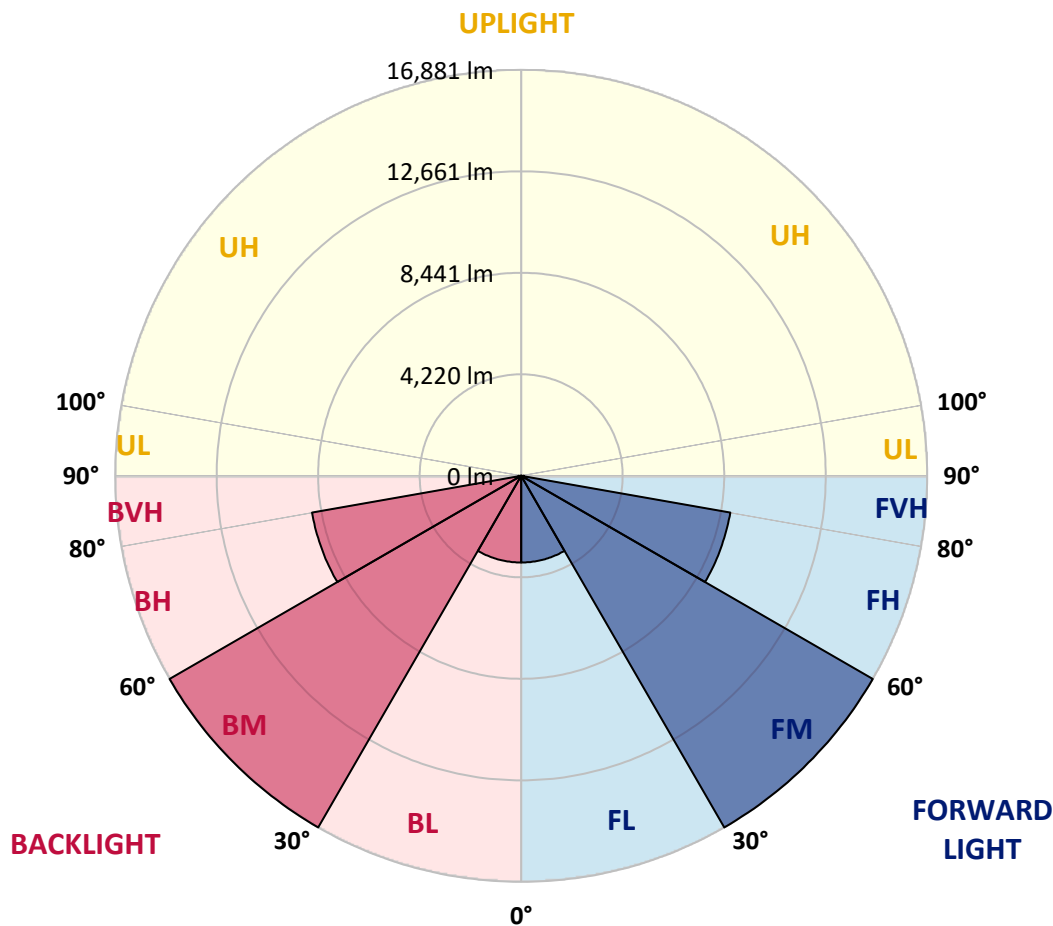
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3603.2	6.1			
FM	(30°-60°)	16881.3	28.7			
FH	(60°-80°)	8829.9	15.0			G4/12000
FVH	(80°-90°)	115.7	0.2			G2/225
BL	(0°-30°)	3603.2	6.1	B4/5000		
BM	(30°-60°)	16881.3	28.7	B5		
BH	(60°-80°)	8829.9	15.0	B5		G4/12000
BVH	(80°-90°)	115.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9	7004.9
2.5°	7052.2	7028.6	7046.3	7031.5	7019.7	7007.9	7013.8	7034.5	7043.3	7046.3	7046.3
5°	7146.7	7126.0	7134.9	7134.9	7114.2	7108.3	7111.2	7126.0	7143.7	7143.7	7143.7
7.5°	7300.2	7279.6	7300.2	7288.4	7270.7	7264.8	7261.9	7273.7	7300.2	7300.2	7291.4
10°	7486.3	7462.7	7474.5	7468.6	7447.9	7439.0	7436.1	7453.8	7477.4	7474.5	7468.6
12.5°	7690.1	7663.5	7678.3	7660.5	7654.6	7645.8	7645.8	7642.8	7657.6	7645.8	7651.7
15°	7917.5	7899.7	7905.6	7893.8	7902.7	7896.8	7873.2	7861.3	7867.3	7849.5	7852.5
17.5°	8186.2	8144.9	8165.5	8159.6	8159.6	8171.4	8133.0	8118.3	8130.1	8112.4	8127.1
20°	8496.3	8454.9	8463.8	8452.0	8437.2	8449.0	8401.8	8413.6	8422.5	8410.6	8437.2
22.5°	8835.9	8782.7	8779.8	8785.7	8753.2	8756.2	8723.7	8753.2	8770.9	8738.4	8770.9
25°	9184.4	9128.3	9166.7	9151.9	9110.5	9119.4	9095.8	9125.3	9140.1	9098.7	9146.0
27.5°	9553.5	9515.1	9550.6	9559.4	9509.2	9544.7	9509.2	9535.8	9550.6	9488.5	9535.8
30°	9984.7	9946.3	9978.8	10002.4	9943.3	9999.4	9969.9	9987.6	9990.6	9916.8	9961.1
32.5°	10454.2	10395.2	10477.9	10489.7	10424.7	10492.6	10454.2	10477.9	10492.6	10392.2	10460.1
35°	11027.2	10953.3	11047.8	11033.1	10976.9	11033.1	10997.6	11033.1	11068.5	10947.4	11021.2
37.5°	11644.4	11567.6	11668.0	11641.4	11588.3	11626.6	11606.0	11629.6	11685.7	11555.8	11635.5
40°	12323.6	12229.1	12364.9	12317.7	12267.5	12261.6	12273.4	12288.2	12362.0	12217.3	12264.5
42.5°	13050.1	12949.7	13153.4	13079.6	13008.7	12961.5	12999.9	13029.4	13100.3	12937.9	13023.5
45°	13879.9	13764.7	14030.5	13941.9	13829.7	13732.3	13794.3	13838.6	13941.9	13747.0	13847.4
47.5°	14795.4	14665.5	14949.0	14922.4	14739.3	14526.7	14668.4	14795.4	14872.2	14635.9	14715.7
50°	15690.2	15589.8	15961.9	15994.4	15769.9	15471.7	15669.5	15861.5	15882.2	15572.1	15610.5
52.5°	16528.9	16428.5	16968.9	17172.7	16971.9	16617.5	16827.2	17022.1	16865.6	16463.9	16475.8
55°	17199.3	17116.6	17804.7	18330.4	18398.3	18105.9	18229.9	18224.0	17710.2	17093.0	17113.6
57.5°	17361.7	17349.9	18218.1	19331.5	20040.2	20075.7	19830.6	19204.5	18097.1	17267.2	17214.1
60°	16623.4	16697.2	17890.3	19854.2	21744.2	22529.8	21469.6	19682.9	17657.0	16505.3	16369.4
62.5°	14414.4	14609.4	16047.5	19216.3	23120.4	25353.0	22783.7	18956.4	15849.7	14346.5	14257.9
65°	10330.2	10669.8	12258.6	16399.0	22996.4	27833.7	22594.7	16266.1	12376.8	10643.2	10516.3
67.5°	4686.7	5032.2	6381.8	11228.0	19990.0	27160.3	19942.8	11346.1	6700.8	5049.9	4976.1
70°	1698.1	1757.1	2191.3	4494.7	12775.4	21640.9	13321.8	4527.2	2330.1	1872.3	1848.7
72.5°	1027.7	1036.6	1128.1	1609.5	4438.6	13138.7	4627.6	1662.6	1151.7	1021.8	1039.5
75°	652.7	646.7	803.3	983.4	1574.0	4432.7	1650.8	983.4	800.3	729.4	735.3
77.5°	469.6	484.3	575.9	735.3	992.3	1503.2	974.5	702.9	575.9	472.5	481.4
80°	351.4	360.3	419.4	572.9	696.9	936.2	620.2	519.8	434.1	295.3	304.2
82.5°	254.0	254.0	274.6	416.4	425.3	505.0	336.7	366.2	286.5	209.7	209.7
85°	150.6	147.7	171.3	248.1	221.5	186.0	153.6	224.4	180.1	129.9	127.0
87.5°	53.2	56.1	53.2	70.9	59.1	50.2	47.3	62.0	50.2	44.3	41.3
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)