

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: P951635

Luminaire Tested: **GALN-SB5D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951635
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-SB5D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49962 lumens
Efficiency: N/A
Efficacy: 136.9 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): 364.9
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

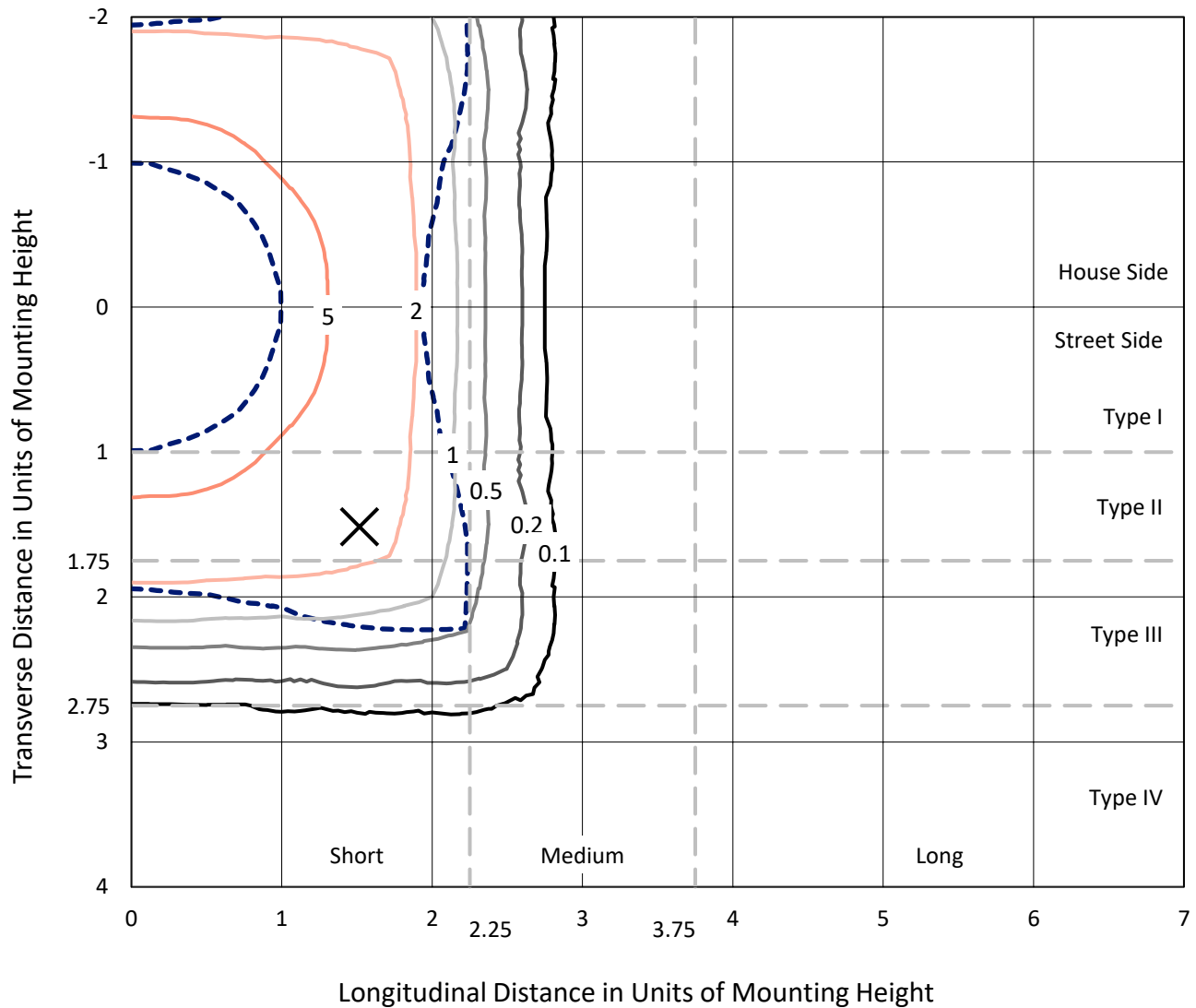


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

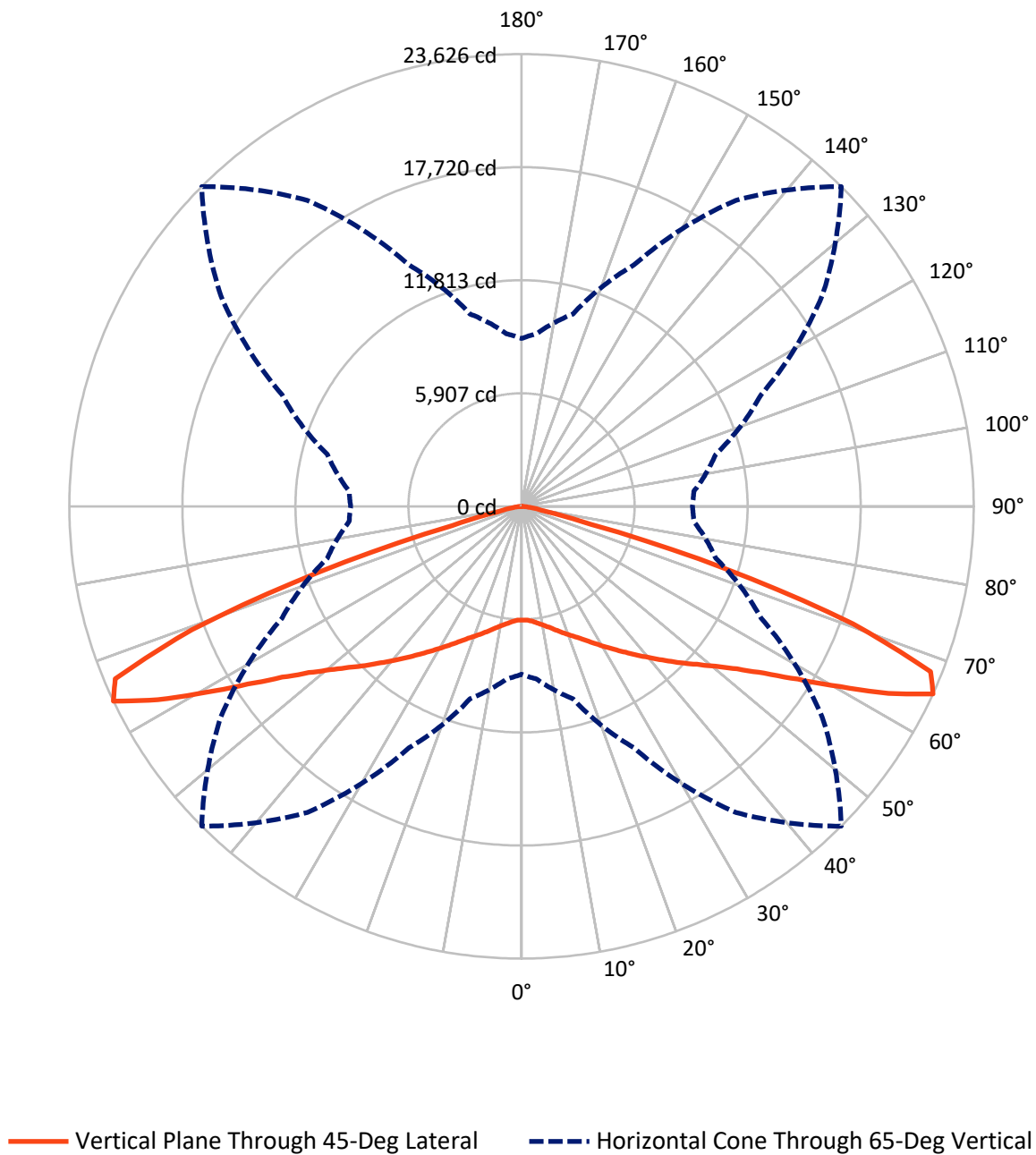


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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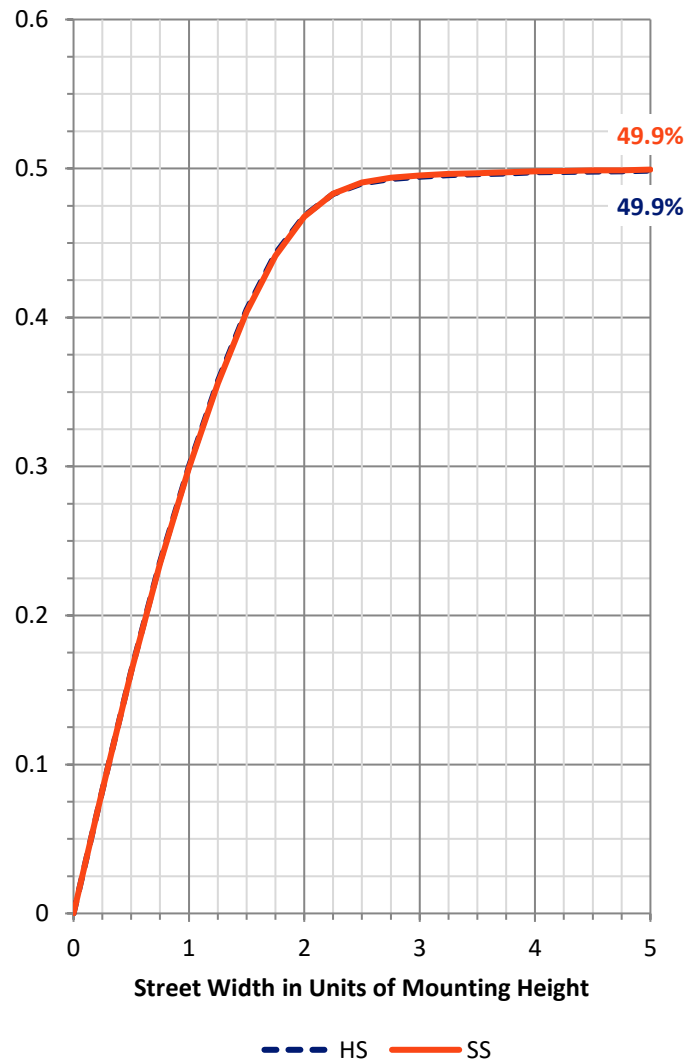
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24981.0	0.0	24981.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24981.0	0.0	24981.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49962.0	0.0	49962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.8	1.2
10°-20°	1914.8	3.8
20°-30°	3615.4	7.2
30°-40°	5920.1	11.8
40°-50°	9179.1	18.4
50°-60°	13559.4	27.1
60°-70°	12907.3	25.8
70°-80°	2082.8	4.2
80°-90°	196.3	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°	49962.0	100.0
0°-180°	49962.0	100.0

Coefficient of Utilization



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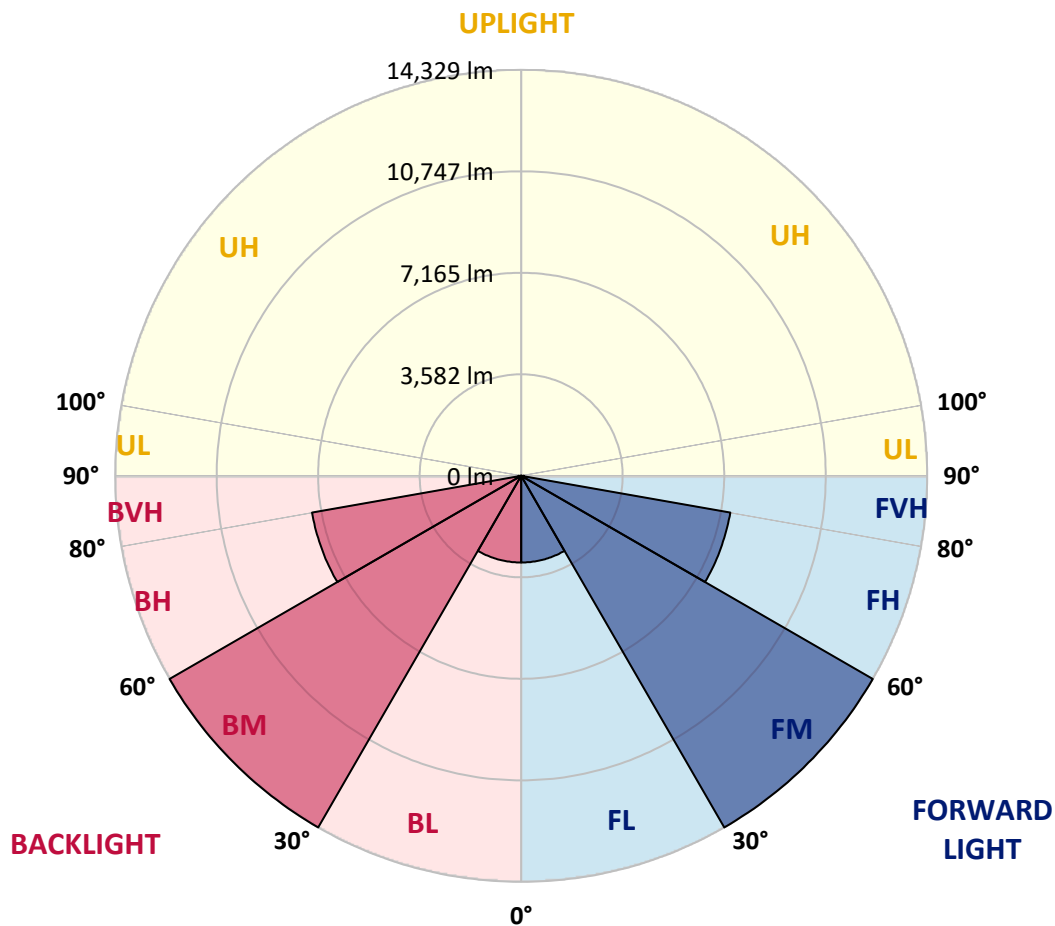
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3058.5	6.1			
FM	(30°-60°)	14329.3	28.7			
FH	(60°-80°)	7495.1	15.0			G3/7500
FVH	(80°-90°)	98.2	0.2			G1/100
BL	(0°-30°)	3058.5	6.1	B4/5000		
BM	(30°-60°)	14329.3	28.7	B5		
BH	(60°-80°)	7495.1	15.0	B5		G3/7500
BVH	(80°-90°)	98.2	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°	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0	5946.0
2.5°	5986.1	5966.0	5981.1	5968.5	5958.5	5948.5	5953.5	5971.0	5978.6	5981.1	5981.1
5°	6066.3	6048.8	6056.3	6056.3	6038.7	6033.7	6036.2	6048.8	6063.8	6063.8	6063.8
7.5°	6196.7	6179.1	6196.7	6186.6	6171.6	6166.6	6164.1	6174.1	6196.7	6196.7	6189.1
10°	6354.6	6334.5	6344.5	6339.5	6322.0	6314.5	6312.0	6327.0	6347.1	6344.5	6339.5
12.5°	6527.5	6505.0	6517.5	6502.5	6497.5	6489.9	6489.9	6487.4	6500.0	6489.9	6495.0
15°	6720.6	6705.5	6710.5	6700.5	6708.0	6703.0	6683.0	6672.9	6677.9	6662.9	6665.4
17.5°	6948.7	6913.6	6931.1	6926.1	6926.1	6936.1	6903.6	6891.0	6901.0	6886.0	6898.5
20°	7211.9	7176.8	7184.3	7174.3	7161.7	7171.8	7131.7	7141.7	7149.2	7139.2	7161.7
22.5°	7500.2	7455.0	7452.5	7457.5	7430.0	7432.5	7404.9	7430.0	7445.0	7417.4	7445.0
25°	7795.9	7748.3	7780.9	7768.4	7733.3	7740.8	7720.7	7745.8	7758.3	7723.3	7763.4
27.5°	8109.3	8076.7	8106.8	8114.3	8071.7	8101.8	8071.7	8094.3	8106.8	8054.1	8094.3
30°	8475.3	8442.7	8470.3	8490.3	8440.2	8487.8	8462.7	8477.8	8480.3	8417.6	8455.2
32.5°	8873.8	8823.7	8893.9	8903.9	8848.8	8906.4	8873.8	8893.9	8906.4	8821.2	8878.9
35°	9360.2	9297.5	9377.7	9365.2	9317.5	9365.2	9335.1	9365.2	9395.2	9292.5	9355.1
37.5°	9884.1	9818.9	9904.1	9881.6	9836.4	9869.0	9851.5	9871.5	9919.2	9808.9	9876.5
40°	10460.6	10380.4	10495.7	10455.6	10413.0	10408.0	10418.0	10430.5	10493.2	10370.4	10410.5
42.5°	11077.3	10992.0	11165.0	11102.3	11042.2	11002.1	11034.7	11059.7	11119.9	10982.0	11054.7
45°	11781.7	11683.9	11909.5	11834.3	11739.0	11656.3	11709.0	11746.6	11834.3	11668.9	11754.1
47.5°	12558.7	12448.5	12689.1	12666.5	12511.1	12330.6	12451.0	12558.7	12623.9	12423.4	12491.1
50°	13318.3	13233.1	13548.9	13576.5	13386.0	13132.8	13300.7	13463.7	13481.2	13218.0	13250.6
52.5°	14030.2	13945.0	14403.7	14576.7	14406.2	14105.4	14283.4	14448.8	14316.0	13975.1	13985.1
55°	14599.2	14529.0	15113.1	15559.3	15617.0	15368.8	15474.1	15469.1	15032.9	14509.0	14526.5
57.5°	14737.1	14727.1	15464.1	16409.1	17010.7	17040.8	16832.7	16301.3	15361.3	14656.9	14611.8
60°	14110.4	14173.1	15185.8	16852.8	18457.1	19123.9	18224.0	16707.4	14987.8	14010.1	13894.8
62.5°	12235.4	12400.8	13621.6	16311.3	19625.2	21520.3	19339.5	16090.7	13453.7	12177.7	12102.5
65°	8768.6	9056.8	10405.5	13919.9	19520.0	23626.0	19179.0	13807.1	10505.7	9034.3	8926.5
67.5°	3978.2	4271.5	5417.1	9530.6	16968.1	23054.5	16928.0	9630.9	5687.8	4286.5	4223.9
70°	1441.4	1491.5	1860.0	3815.3	10844.1	18369.4	11307.9	3842.8	1977.8	1589.3	1569.2
72.5°	872.3	879.9	957.6	1366.2	3767.6	11152.5	3928.1	1411.3	977.6	867.3	882.4
75°	554.0	549.0	681.8	834.7	1336.1	3762.6	1401.3	834.7	679.3	619.2	624.2
77.5°	398.6	411.1	488.8	624.2	842.3	1275.9	827.2	596.6	488.8	401.1	408.6
80°	298.3	305.8	356.0	486.3	591.6	794.6	526.4	441.2	368.5	250.7	258.2
82.5°	215.6	215.6	233.1	353.4	361.0	428.7	285.8	310.8	243.2	178.0	178.0
85°	127.8	125.3	145.4	210.6	188.0	157.9	130.4	190.5	152.9	110.3	107.8
87.5°	45.1	47.6	45.1	60.2	50.1	42.6	40.1	52.6	42.6	37.6	35.1
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)