

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: P947351

Luminaire Tested: **GALN-SB2D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947351
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-SB2D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 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: 19780 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 147.6
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

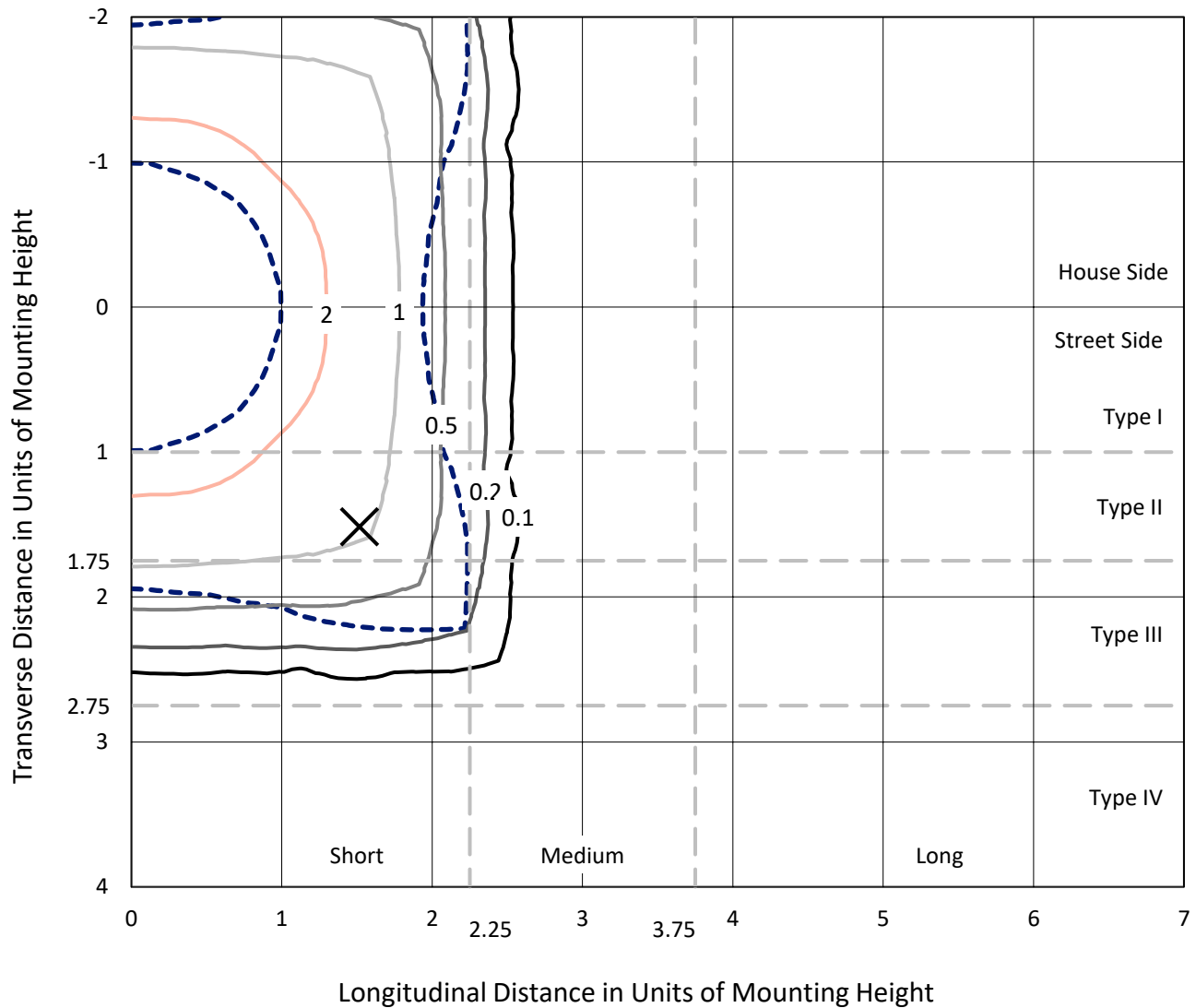


REPORT NUMBER: P947351

CATALOG NUMBER: GALN-SB2D-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

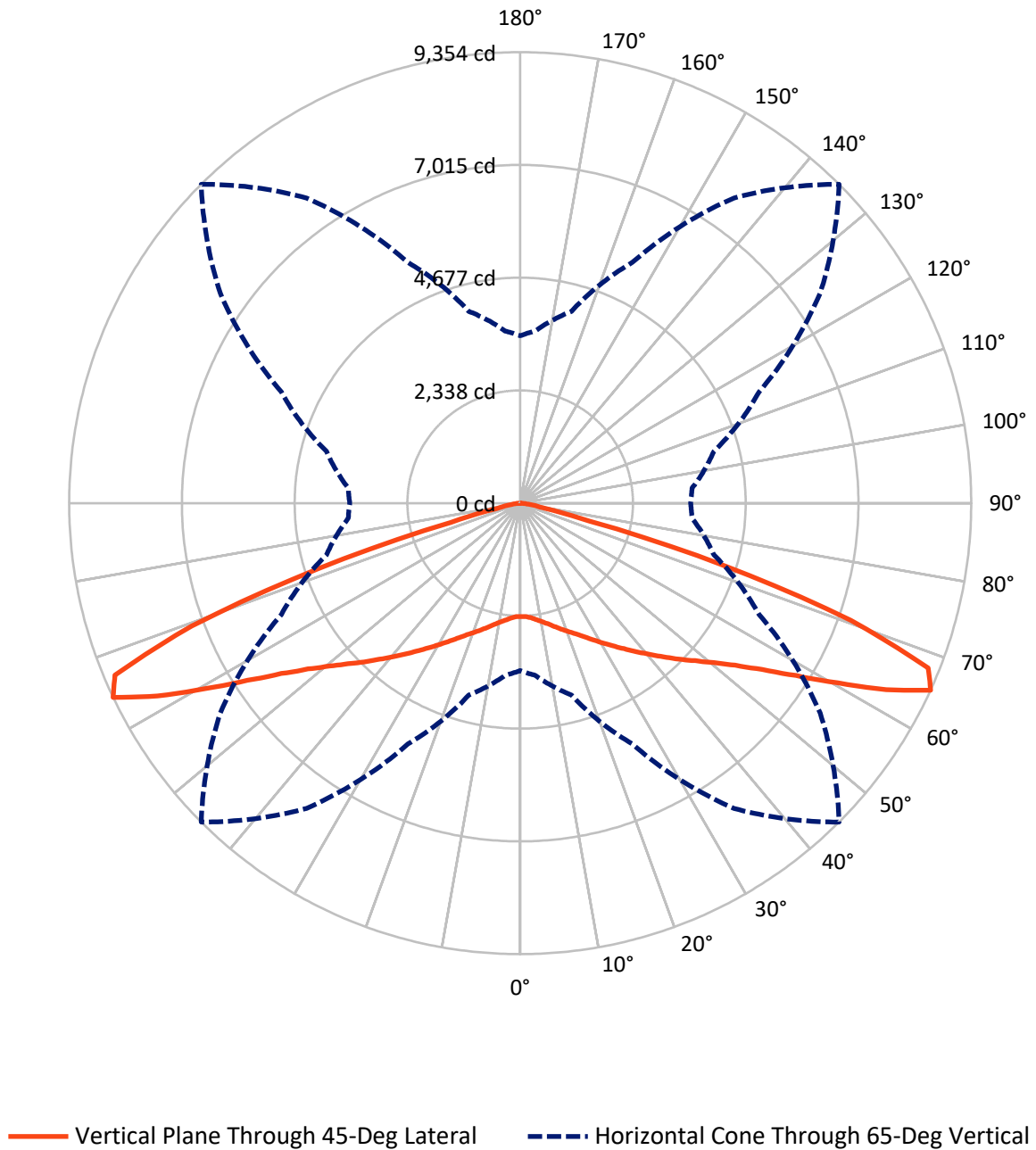


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - N/A

REPORT NUMBER: P947351

CATALOG NUMBER: GALN-SB2D-727-U-5NQ

Luminous Intensity Polar Plot



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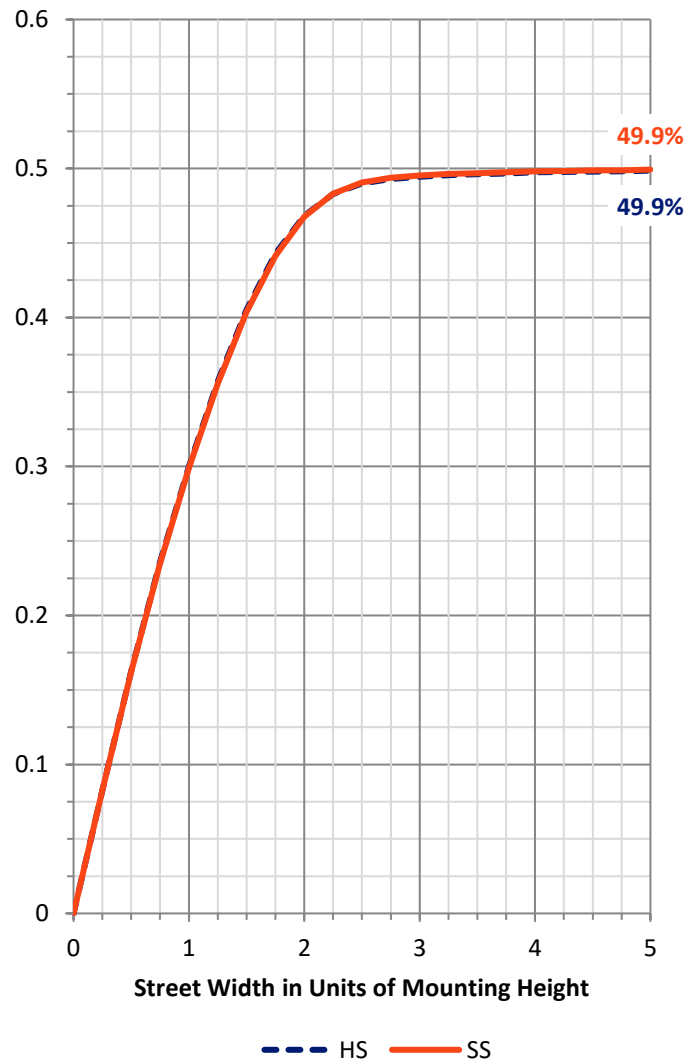
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9890.0	0.0	9890.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9890.0	0.0	9890.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19780.0	0.0	19780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.2
10°-20°	758.1	3.8
20°-30°	1431.3	7.2
30°-40°	2343.8	11.8
40°-50°	3634.0	18.4
50°-60°	5368.2	27.1
60°-70°	5110.0	25.8
70°-80°	824.6	4.2
80°-90°	77.7	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°	19780.0	100.0
0°-180°	19780.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947351

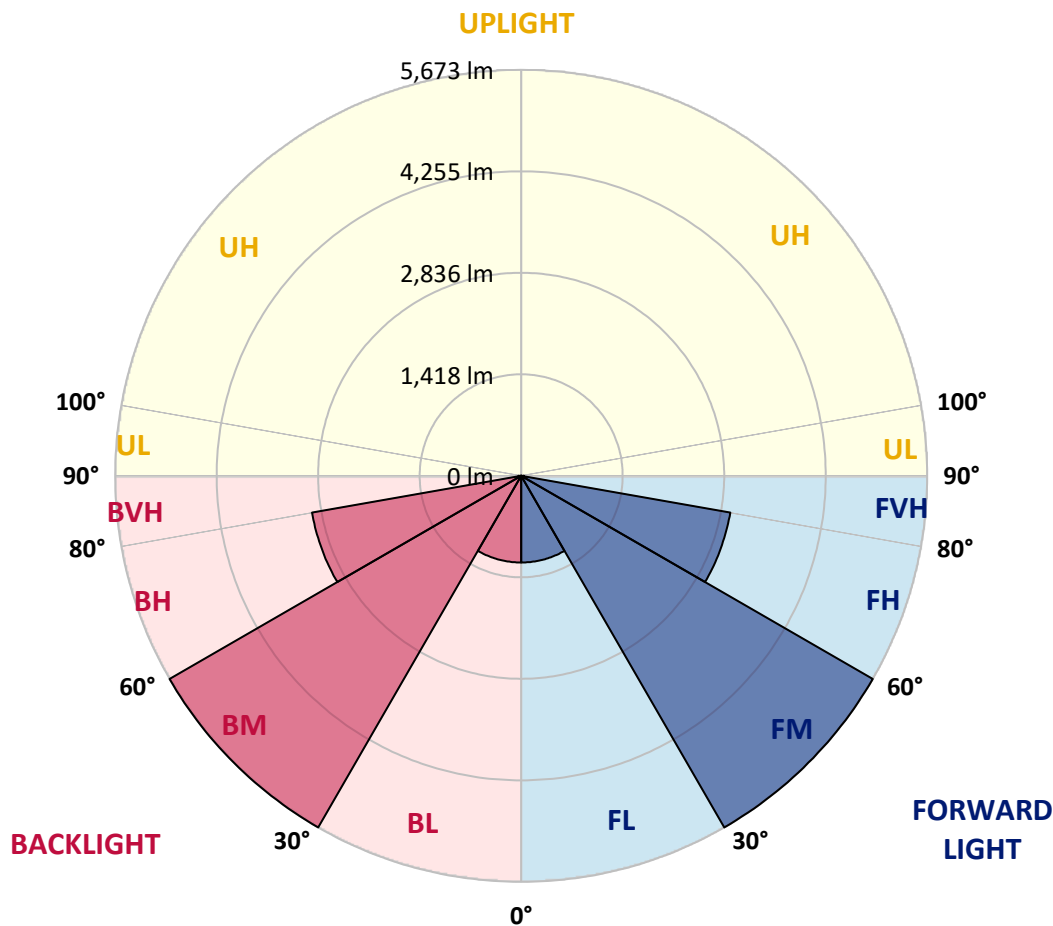
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.9	6.1			
FM	(30°-60°)	5673.0	28.7			
FH	(60°-80°)	2967.3	15.0			G2/5000
FVH	(80°-90°)	38.9	0.2			G1/100
BL	(0°-30°)	1210.9	6.1	B3/2500		
BM	(30°-60°)	5673.0	28.7	B4/8500		
BH	(60°-80°)	2967.3	15.0	B4/5000		G2/5000
BVH	(80°-90°)	38.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P947351

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0	2354.0
2.5°	2369.9	2362.0	2367.9	2362.9	2359.0	2355.0	2357.0	2363.9	2366.9	2367.9	2367.9
5°	2401.7	2394.7	2397.7	2397.7	2390.7	2388.8	2389.7	2394.7	2400.7	2400.7	2400.7
7.5°	2453.3	2446.3	2453.3	2449.3	2443.3	2441.4	2440.4	2444.3	2453.3	2453.3	2450.3
10°	2515.8	2507.8	2511.8	2509.8	2502.9	2499.9	2498.9	2504.9	2512.8	2511.8	2509.8
12.5°	2584.3	2575.3	2580.3	2574.3	2572.4	2569.4	2569.4	2568.4	2573.3	2569.4	2571.4
15°	2660.7	2654.7	2656.7	2652.7	2655.7	2653.7	2645.8	2641.8	2643.8	2637.8	2638.8
17.5°	2751.0	2737.1	2744.0	2742.1	2742.1	2746.0	2733.1	2728.2	2732.1	2726.2	2731.1
20°	2855.2	2841.3	2844.3	2840.3	2835.3	2839.3	2823.4	2827.4	2830.4	2826.4	2835.3
22.5°	2969.3	2951.5	2950.5	2952.4	2941.5	2942.5	2931.6	2941.5	2947.5	2936.6	2947.5
25°	3086.4	3067.6	3080.5	3075.5	3061.6	3064.6	3056.7	3066.6	3071.5	3057.6	3073.5
27.5°	3210.5	3197.6	3209.5	3212.5	3195.6	3207.5	3195.6	3204.5	3209.5	3188.6	3204.5
30°	3355.4	3342.5	3353.4	3361.3	3341.5	3360.3	3350.4	3356.4	3357.4	3332.5	3347.4
32.5°	3513.2	3493.3	3521.1	3525.1	3503.2	3526.1	3513.2	3521.1	3526.1	3492.3	3515.1
35°	3705.7	3680.9	3712.6	3707.7	3688.8	3707.7	3695.8	3707.7	3719.6	3678.9	3703.7
37.5°	3913.1	3887.3	3921.0	3912.1	3894.3	3907.2	3900.2	3908.1	3927.0	3883.3	3910.1
40°	4141.4	4109.6	4155.3	4139.4	4122.5	4120.5	4124.5	4129.5	4154.3	4105.6	4121.5
42.5°	4385.5	4351.8	4420.2	4395.4	4371.6	4355.7	4368.6	4378.6	4402.4	4347.8	4376.6
45°	4664.4	4625.7	4715.0	4685.2	4647.5	4614.7	4635.6	4650.5	4685.2	4619.7	4653.5
47.5°	4972.0	4928.4	5023.6	5014.7	4953.2	4881.7	4929.3	4972.0	4997.8	4918.4	4945.2
50°	5272.7	5239.0	5364.0	5374.9	5299.5	5199.3	5265.8	5330.3	5337.2	5233.0	5245.9
52.5°	5554.6	5520.8	5702.4	5770.9	5703.4	5584.3	5654.8	5720.3	5667.7	5532.7	5536.7
55°	5779.8	5752.1	5983.3	6159.9	6182.8	6084.5	6126.2	6124.2	5951.5	5744.1	5751.1
57.5°	5834.4	5830.5	6122.2	6496.4	6734.6	6746.5	6664.1	6453.7	6081.5	5802.7	5784.8
60°	5586.3	5611.1	6012.1	6672.0	7307.2	7571.2	7214.9	6614.5	5933.7	5546.6	5501.0
62.5°	4844.0	4909.5	5392.8	6457.7	7769.6	8519.9	7656.5	6370.3	5326.3	4821.2	4791.4
65°	3471.5	3585.6	4119.5	5510.9	7728.0	9353.5	7593.0	5466.2	4159.2	3576.7	3534.0
67.5°	1575.0	1691.1	2144.6	3773.2	6717.7	9127.3	6701.8	3812.9	2251.8	1697.0	1672.2
70°	570.6	590.5	736.4	1510.5	4293.2	7272.4	4476.8	1521.4	783.0	629.2	621.3
72.5°	345.4	348.3	379.1	540.9	1491.6	4415.3	1555.1	558.7	387.0	343.4	349.3
75°	219.3	217.3	269.9	330.5	529.0	1489.6	554.8	330.5	268.9	245.1	247.1
77.5°	157.8	162.8	193.5	247.1	333.5	505.1	327.5	236.2	193.5	158.8	161.8
80°	118.1	121.1	140.9	192.5	234.2	314.6	208.4	174.7	145.9	99.2	102.2
82.5°	85.3	85.3	92.3	139.9	142.9	169.7	113.1	123.1	96.3	70.5	70.5
85°	50.6	49.6	57.6	83.4	74.4	62.5	51.6	75.4	60.5	43.7	42.7
87.5°	17.9	18.9	17.9	23.8	19.8	16.9	15.9	20.8	16.9	14.9	13.9
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)