

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: P940763

Luminaire Tested: **GALN-SB4A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16496 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 114
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



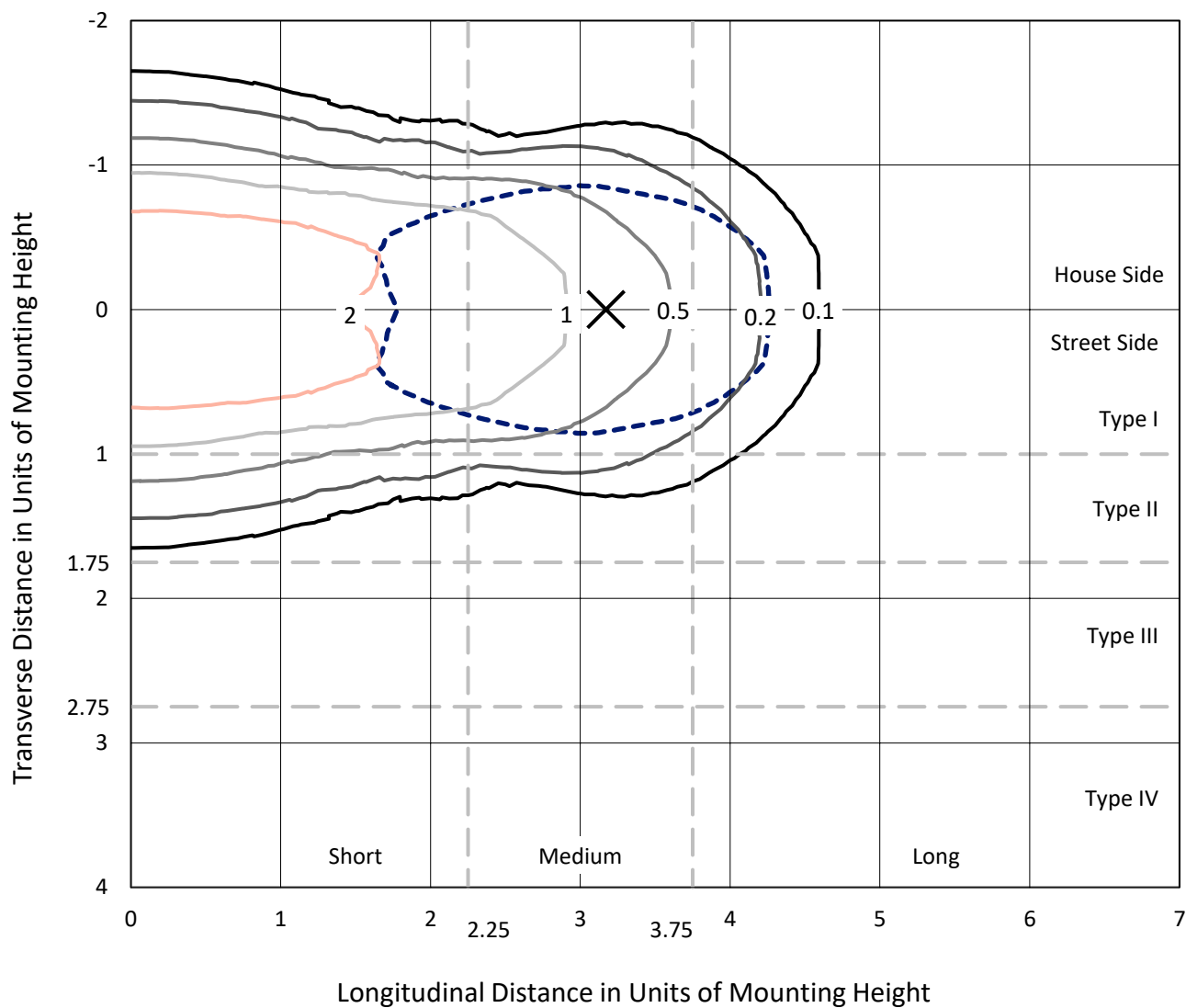
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

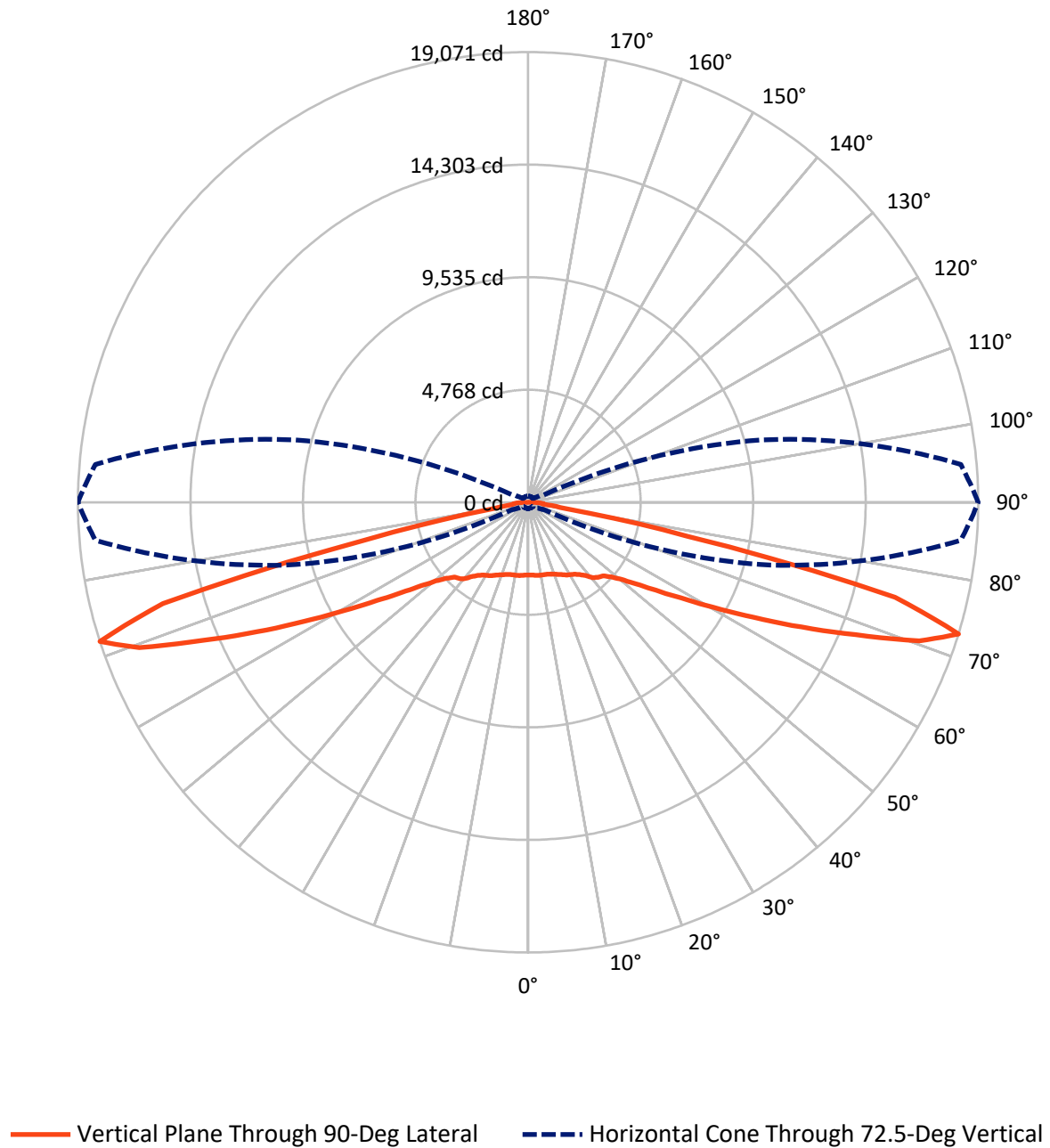


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8248.0	0.0	8248.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8248.0	0.0	8248.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16496.0	0.0	16496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.8
10°-20°	913.9	5.5
20°-30°	1523.8	9.2
30°-40°	2095.7	12.7
40°-50°	2559.4	15.5
50°-60°	2960.2	17.9
60°-70°	3529.5	21.4
70°-80°	2463.4	14.9
80°-90°	151.3	0.9
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°	16496.0	100.0
0°-180°	16496.0	100.0

Coefficient of Utilization



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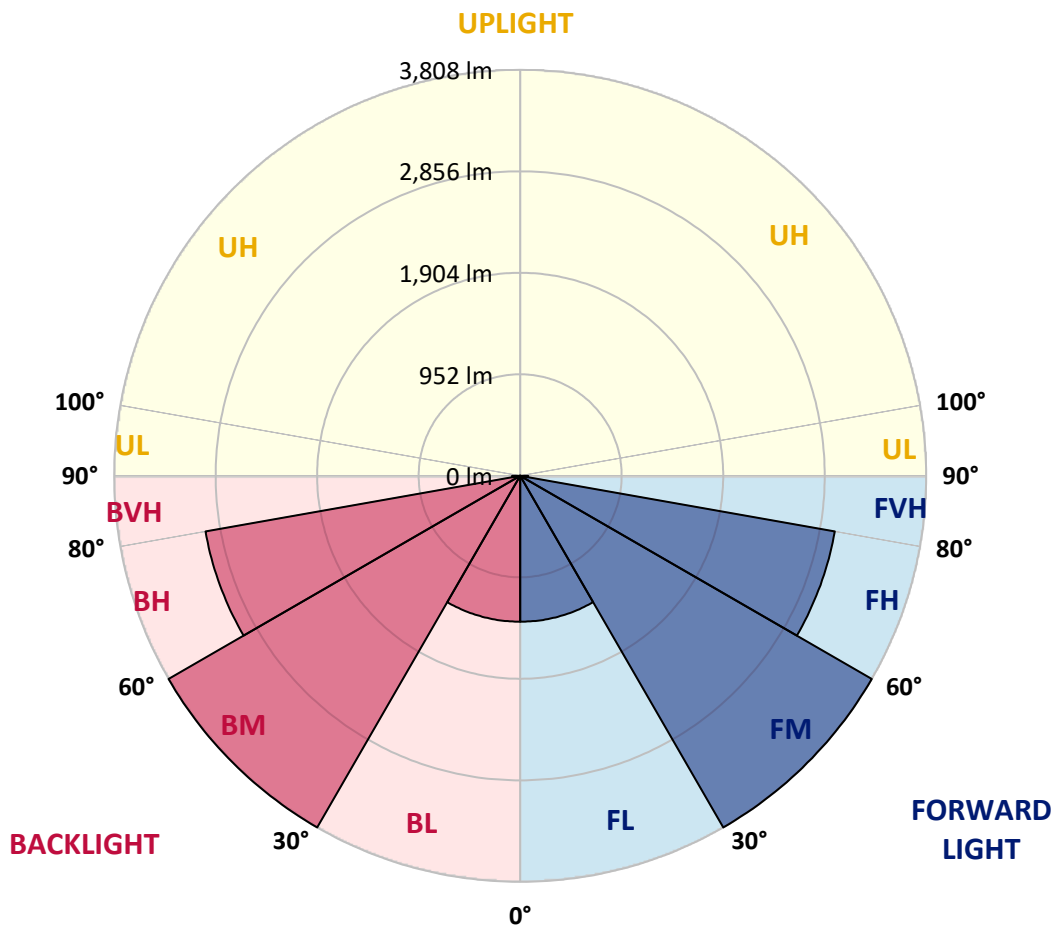
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.3	8.3			
FM	(30°-60°)	3807.6	23.1			
FH	(60°-80°)	2996.5	18.2			G2/5000
FVH	(80°-90°)	75.6	0.5			G1/100
BL	(0°-30°)	1368.3	8.3	B3/2500		
BM	(30°-60°)	3807.6	23.1	B3/5000		
BH	(60°-80°)	2996.5	18.2	B4/5000		G4/5000
BVH	(80°-90°)	75.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5	3082.5
2.5°	3085.1	3088.6	3088.6	3086.0	3092.1	3086.8	3086.8	3084.2	3086.8	3084.2	3084.2
5°	3100.9	3105.2	3107.0	3106.1	3114.0	3109.6	3109.6	3106.1	3107.0	3104.4	3104.4
7.5°	3130.7	3136.8	3140.3	3144.7	3156.1	3150.8	3147.3	3136.8	3132.4	3125.4	3125.4
10°	3140.3	3147.3	3158.7	3181.5	3207.8	3208.7	3198.2	3171.9	3151.7	3135.9	3133.3
12.5°	3110.5	3120.1	3143.8	3190.3	3249.0	3272.7	3256.0	3212.2	3172.8	3144.7	3140.3
15°	3072.8	3083.3	3119.3	3189.4	3276.2	3331.4	3329.7	3271.8	3208.7	3164.9	3157.8
17.5°	3014.1	3024.6	3076.3	3174.5	3297.2	3388.4	3413.0	3353.3	3264.8	3206.1	3196.4
20°	2908.0	2917.6	2989.5	3127.2	3304.3	3448.9	3512.9	3460.3	3349.8	3270.1	3255.2
22.5°	2770.3	2785.3	2869.4	3045.6	3287.6	3512.0	3626.9	3590.9	3448.9	3338.4	3318.3
25°	2623.1	2638.8	2737.0	2945.7	3244.6	3557.6	3761.9	3739.1	3561.1	3423.5	3395.4
27.5°	2495.9	2512.6	2619.6	2846.6	3178.0	3575.2	3895.1	3906.5	3697.0	3517.3	3487.5
30°	2396.0	2411.8	2525.8	2766.8	3092.1	3557.6	4011.7	4090.6	3835.5	3598.8	3555.9
32.5°	2286.4	2306.6	2426.7	2669.5	2990.4	3515.5	4113.4	4289.7	3996.0	3686.5	3632.1
35°	2147.9	2166.3	2292.6	2536.3	2857.1	3448.0	4198.5	4510.6	4225.7	3819.8	3759.3
37.5°	1979.6	1997.1	2122.5	2369.7	2724.8	3353.3	4263.4	4759.6	4499.2	4011.7	3931.1
40°	1810.4	1827.0	1944.5	2183.8	2566.1	3232.4	4286.2	5003.3	4813.0	4275.6	4189.7
42.5°	1655.2	1670.1	1777.9	2000.6	2388.1	3078.1	4256.3	5215.4	5094.5	4459.7	4349.3
45°	1512.3	1525.4	1621.0	1828.8	2203.1	2890.5	4166.9	5443.4	5429.4	4591.2	4442.2
47.5°	1349.2	1362.4	1461.4	1662.2	2018.1	2670.4	4015.3	5667.8	5894.9	4889.3	4717.5
50°	1150.2	1161.6	1263.3	1470.2	1826.2	2436.3	3804.8	5844.0	6482.3	5340.8	5125.1
52.5°	914.4	926.7	1025.7	1232.6	1598.2	2184.7	3527.8	5958.9	7160.8	6000.1	5734.4
55°	680.3	689.1	775.0	960.9	1315.9	1898.0	3180.6	5991.3	7930.6	6901.3	6569.1
57.5°	493.6	498.8	554.1	692.6	997.7	1539.5	2759.0	5907.2	8846.7	8056.8	7638.6
60°	399.8	401.5	418.2	479.6	693.5	1134.4	2249.6	5617.8	9840.9	9546.3	9019.4
62.5°	363.0	363.0	367.3	384.0	469.0	748.7	1633.3	5018.2	10906.9	11428.6	10722.8
65°	337.5	337.5	339.3	347.2	370.0	476.9	1031.0	4041.6	11805.5	13633.4	12741.0
67.5°	314.7	315.6	314.7	317.4	330.5	352.4	597.9	2791.4	12289.5	15918.1	14954.6
70°	291.1	292.8	288.4	288.4	299.0	299.8	374.3	1530.7	11888.0	17832.8	17579.4
72.5°	263.0	265.6	258.6	256.9	264.8	261.3	281.4	734.7	10206.5	18404.4	19070.7
75°	238.5	242.0	226.2	221.8	221.8	219.2	228.8	377.0	6624.3	15013.4	16058.4
77.5°	216.5	223.6	198.1	184.1	180.6	172.7	186.7	230.6	2897.5	7048.6	6902.2
80°	178.8	188.5	163.1	146.4	140.3	131.5	147.3	161.3	861.8	1636.8	1567.5
82.5°	133.3	137.6	115.7	104.3	99.1	92.9	110.5	112.2	280.5	579.5	654.9
85°	85.0	86.8	71.0	61.4	58.7	56.1	70.1	61.4	107.0	426.1	618.9
87.5°	29.8	34.2	27.2	24.5	26.3	21.9	32.4	18.4	29.8	300.7	372.6
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)