

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: P949136

Luminaire Tested: **GALN-SB4A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949136
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-SB4A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 17474 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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



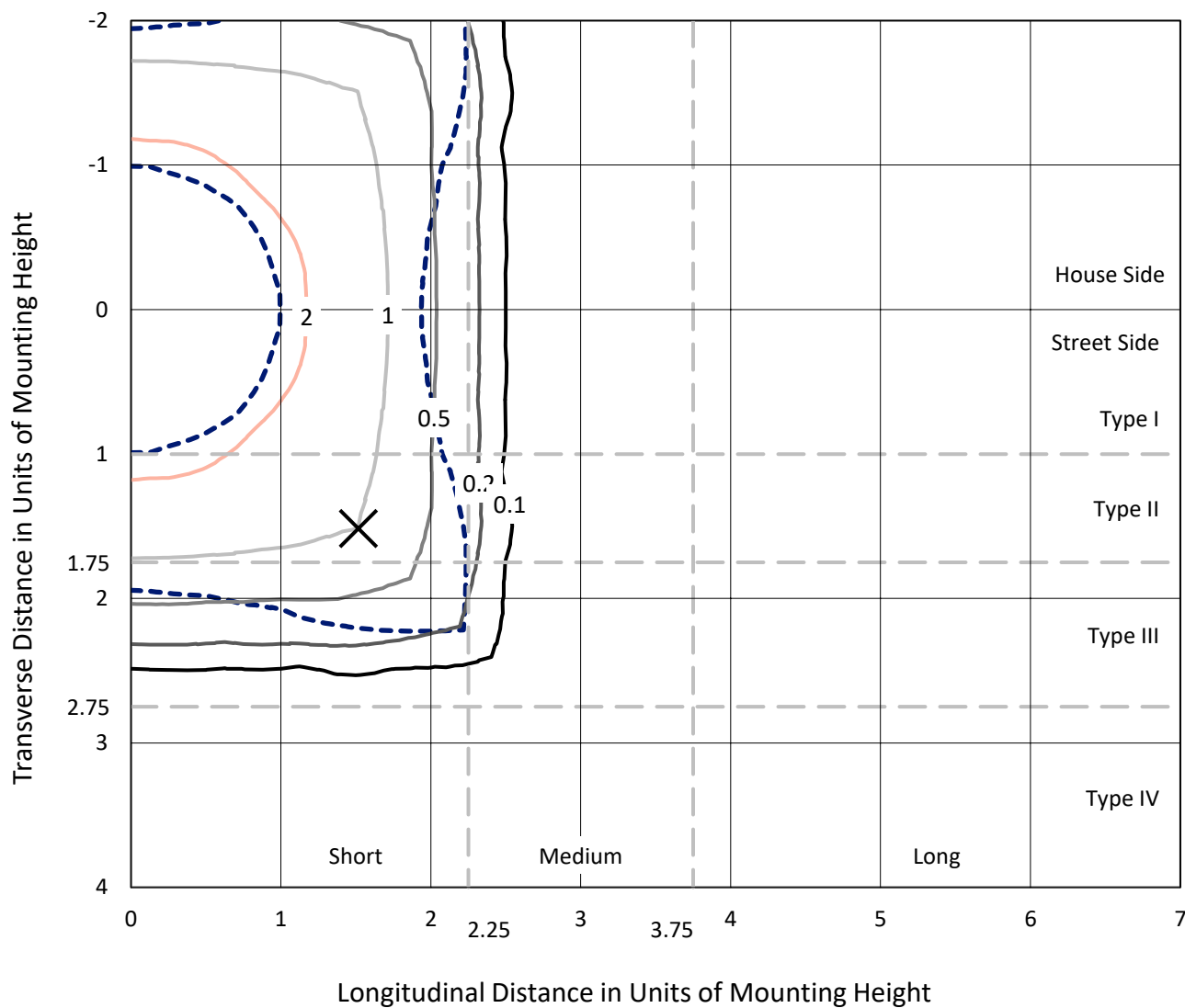
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

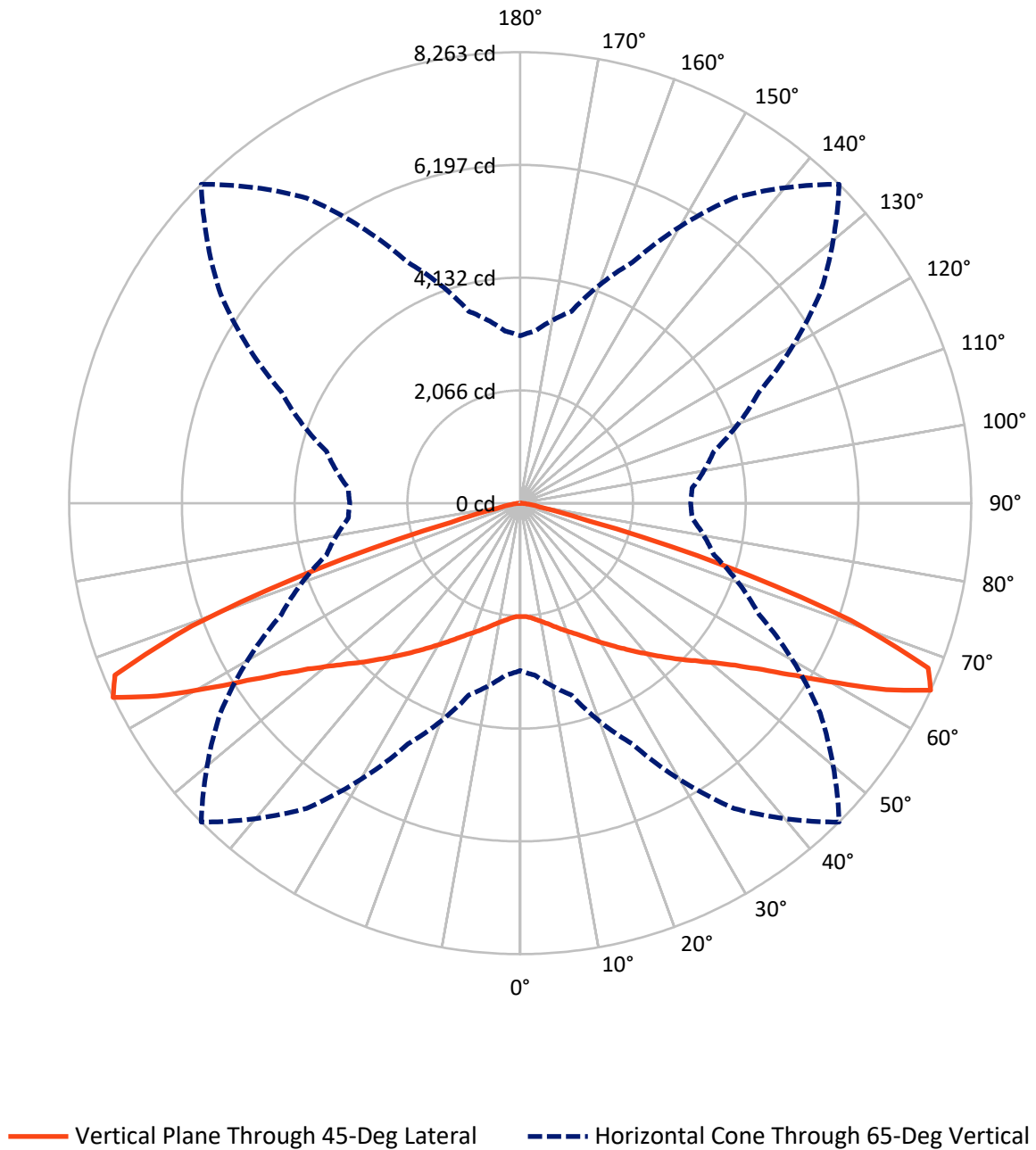


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8737.0	0.0	8737.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8737.0	0.0	8737.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17474.0	0.0	17474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	1.2
10°-20°	669.7	3.8
20°-30°	1264.5	7.2
30°-40°	2070.5	11.8
40°-50°	3210.4	18.4
50°-60°	4742.4	27.1
60°-70°	4514.3	25.8
70°-80°	728.4	4.2
80°-90°	68.7	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°	17474.0	100.0
0°-180°	17474.0	100.0

Coefficient of Utilization



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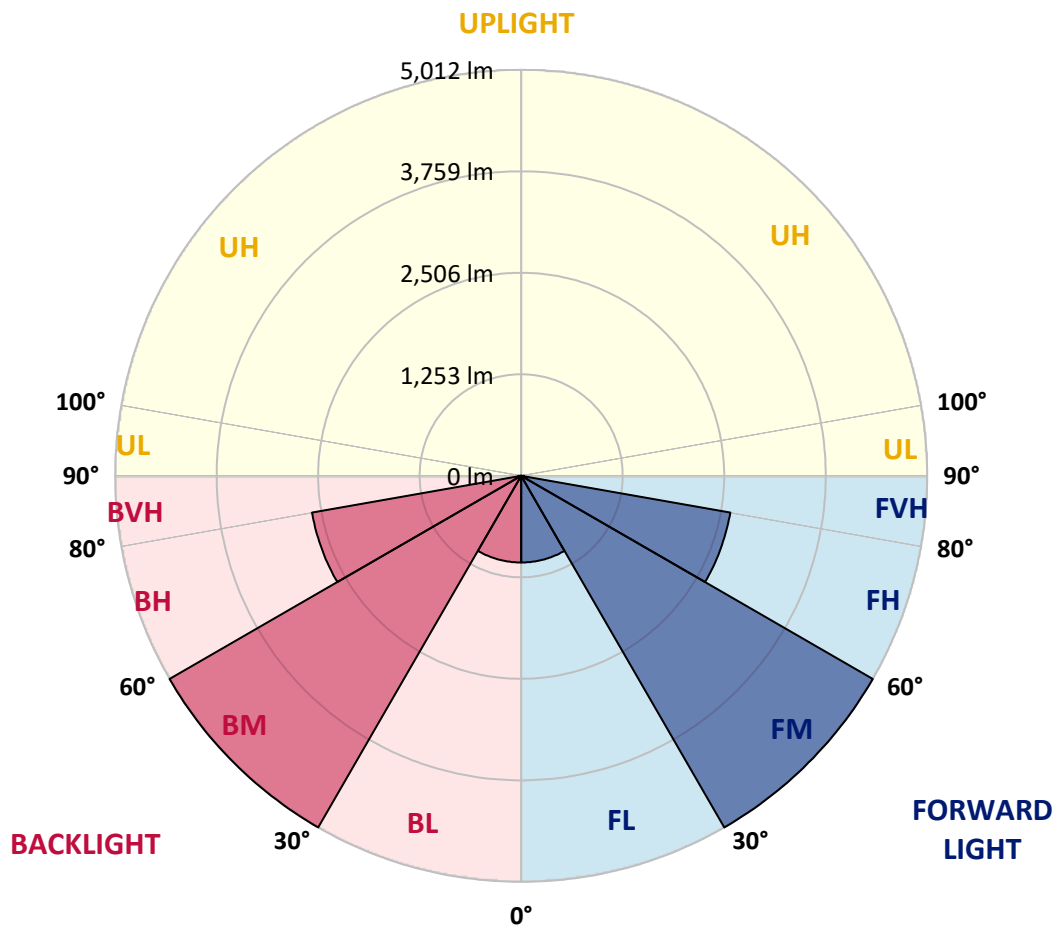
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.7	6.1			
FM	(30°-60°)	5011.6	28.7			
FH	(60°-80°)	2621.4	15.0			G2/5000
FVH	(80°-90°)	34.3	0.2			G1/100
BL	(0°-30°)	1069.7	6.1	B3/2500		
BM	(30°-60°)	5011.6	28.7	B4/8500		
BH	(60°-80°)	2621.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	34.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6	2079.6
2.5°	2093.6	2086.6	2091.9	2087.5	2084.0	2080.5	2082.2	2088.3	2091.0	2091.9	2091.9
5°	2121.7	2115.5	2118.2	2118.2	2112.0	2110.3	2111.1	2115.5	2120.8	2120.8	2120.8
7.5°	2167.3	2161.1	2167.3	2163.7	2158.5	2156.7	2155.9	2159.4	2167.3	2167.3	2164.6
10°	2222.5	2215.5	2219.0	2217.2	2211.1	2208.5	2207.6	2212.8	2219.9	2219.0	2217.2
12.5°	2283.0	2275.1	2279.5	2274.2	2272.5	2269.8	2269.8	2269.0	2273.3	2269.8	2271.6
15°	2350.5	2345.2	2347.0	2343.5	2346.1	2344.4	2337.3	2333.8	2335.6	2330.3	2331.2
17.5°	2430.3	2418.0	2424.1	2422.4	2422.4	2425.9	2414.5	2410.1	2413.6	2408.4	2412.7
20°	2522.3	2510.1	2512.7	2509.2	2504.8	2508.3	2494.3	2497.8	2500.4	2496.9	2504.8
22.5°	2623.1	2607.4	2606.5	2608.2	2598.6	2599.5	2589.8	2598.6	2603.9	2594.2	2603.9
25°	2726.6	2709.9	2721.3	2717.0	2704.7	2707.3	2700.3	2709.1	2713.4	2701.2	2715.2
27.5°	2836.2	2824.8	2835.3	2837.9	2823.0	2833.6	2823.0	2830.9	2835.3	2816.9	2830.9
30°	2964.2	2952.8	2962.4	2969.5	2951.9	2968.6	2959.8	2965.1	2965.9	2944.0	2957.2
32.5°	3103.6	3086.1	3110.6	3114.1	3094.8	3115.0	3103.6	3110.6	3115.0	3085.2	3105.3
35°	3273.7	3251.8	3279.8	3275.4	3258.8	3275.4	3264.9	3275.4	3285.9	3250.0	3271.9
37.5°	3456.9	3434.1	3463.9	3456.0	3440.3	3451.6	3445.5	3452.5	3469.2	3430.6	3454.3
40°	3658.6	3630.5	3670.8	3656.8	3641.9	3640.1	3643.6	3648.0	3670.0	3627.0	3641.0
42.5°	3874.2	3844.4	3904.9	3883.0	3862.0	3847.9	3859.3	3868.1	3889.1	3840.9	3866.3
45°	4120.6	4086.4	4165.3	4139.0	4105.7	4076.7	4095.2	4108.3	4139.0	4081.1	4110.9
47.5°	4392.4	4353.8	4438.0	4430.1	4375.7	4312.6	4354.7	4392.4	4415.2	4345.0	4368.7
50°	4658.0	4628.2	4738.7	4748.3	4681.7	4593.1	4651.9	4708.9	4715.0	4622.9	4634.3
52.5°	4907.0	4877.2	5037.6	5098.1	5038.5	4933.3	4995.6	5053.4	5007.0	4887.7	4891.2
55°	5106.0	5081.5	5285.7	5441.8	5462.0	5375.2	5412.0	5410.2	5257.7	5074.5	5080.6
57.5°	5154.2	5150.7	5408.5	5739.0	5949.4	5959.9	5887.2	5701.3	5372.5	5126.2	5110.4
60°	4935.1	4957.0	5311.2	5894.2	6455.3	6688.5	6373.8	5843.3	5241.9	4900.0	4859.7
62.5°	4279.3	4337.1	4764.1	5704.8	6863.8	7526.6	6763.9	5627.7	4705.4	4259.1	4232.8
65°	3066.8	3167.6	3639.3	4868.4	6827.0	8263.1	6707.8	4829.0	3674.3	3159.7	3122.0
67.5°	1391.4	1493.9	1894.6	3333.3	5934.5	8063.2	5920.5	3368.4	1989.3	1499.2	1477.3
70°	504.1	521.6	650.5	1334.4	3792.7	6424.6	3954.9	1344.0	691.7	555.8	548.8
72.5°	305.1	307.7	334.9	477.8	1317.7	3900.5	1373.8	493.6	341.9	303.3	308.6
75°	193.8	192.0	238.5	291.9	467.3	1316.0	490.1	291.9	237.6	216.5	218.3
77.5°	139.4	143.8	171.0	218.3	294.6	446.3	289.3	208.7	171.0	140.3	142.9
80°	104.3	107.0	124.5	170.1	206.9	277.9	184.1	154.3	128.9	87.7	90.3
82.5°	75.4	75.4	81.5	123.6	126.2	149.9	99.9	108.7	85.0	62.2	62.2
85°	44.7	43.8	50.8	73.6	65.8	55.2	45.6	66.6	53.5	38.6	37.7
87.5°	15.8	16.7	15.8	21.0	17.5	14.9	14.0	18.4	14.9	13.2	12.3
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)