

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: P941203

Luminaire Tested: **GALN-SB4C-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941203
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-SB4C-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28402 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

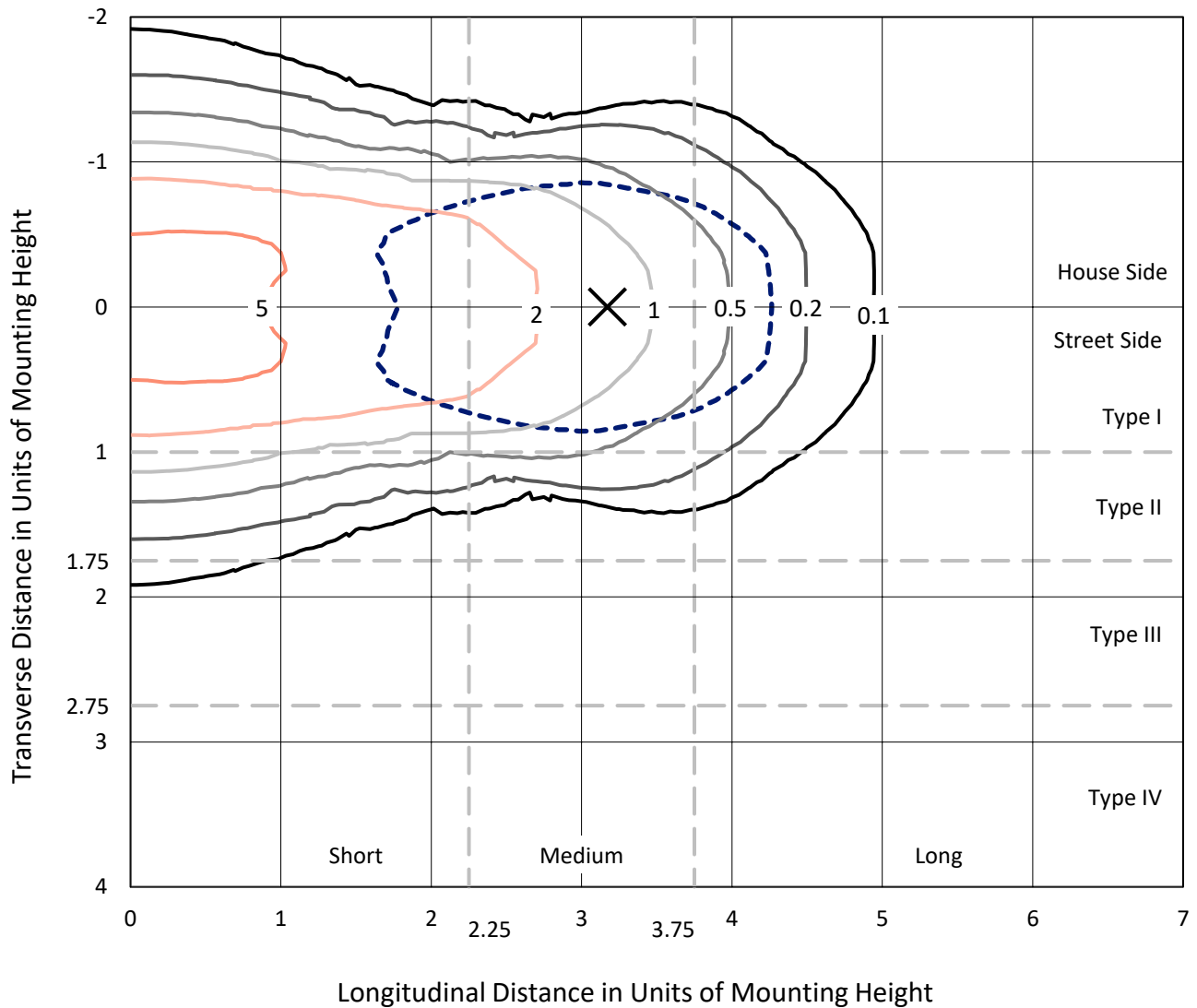
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

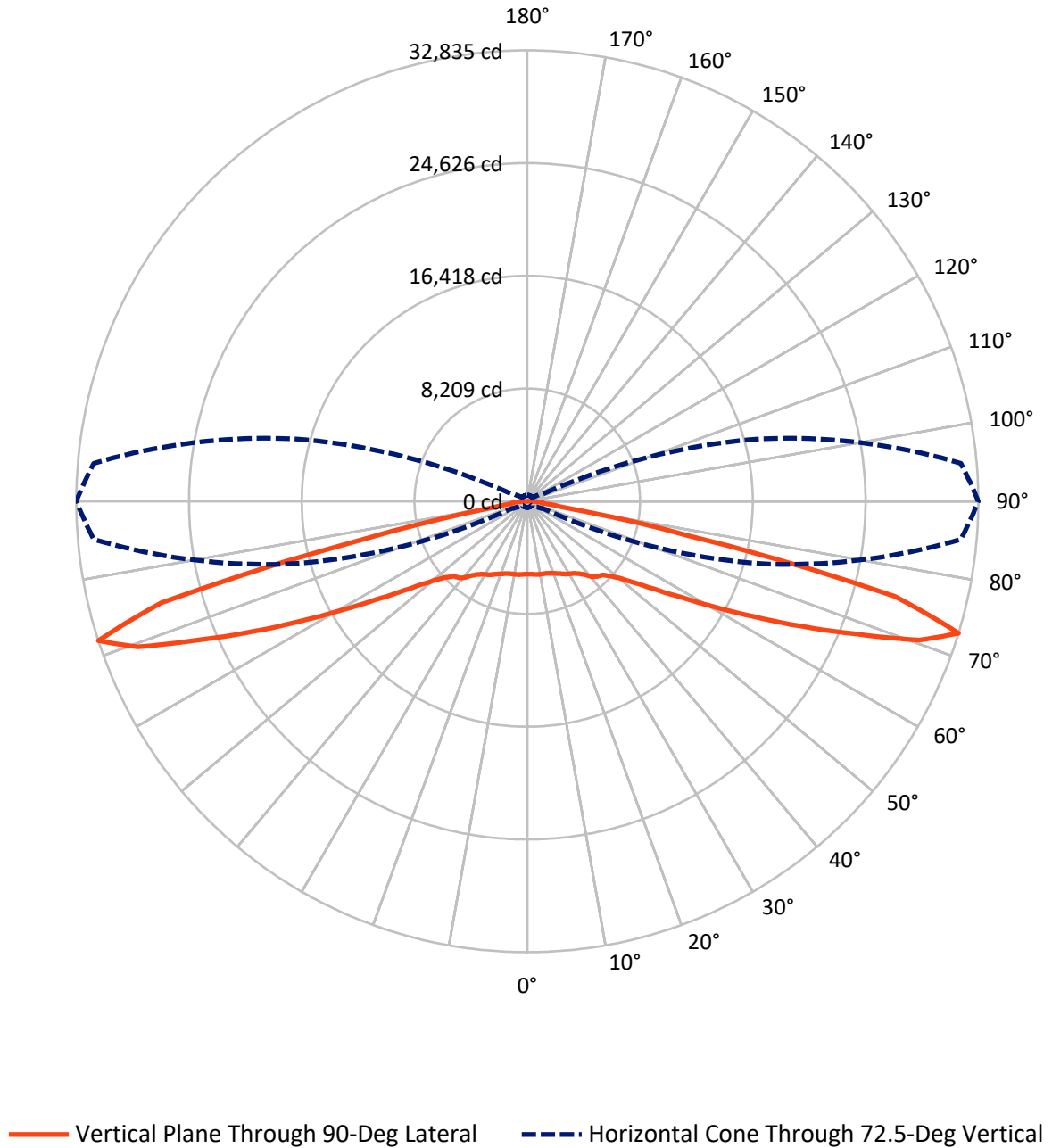
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	14201.0	0.0	14201.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14201.0	0.0	14201.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28402.0	0.0	28402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.6	1.8
10°-20°	1573.4	5.5
20°-30°	2623.6	9.2
30°-40°	3608.2	12.7
40°-50°	4406.6	15.5
50°-60°	5096.7	17.9
60°-70°	6077.0	21.4
70°-80°	4241.3	14.9
80°-90°	260.5	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°	28402.0	100.0
0°-180°	28402.0	100.0

Coefficient of Utilization



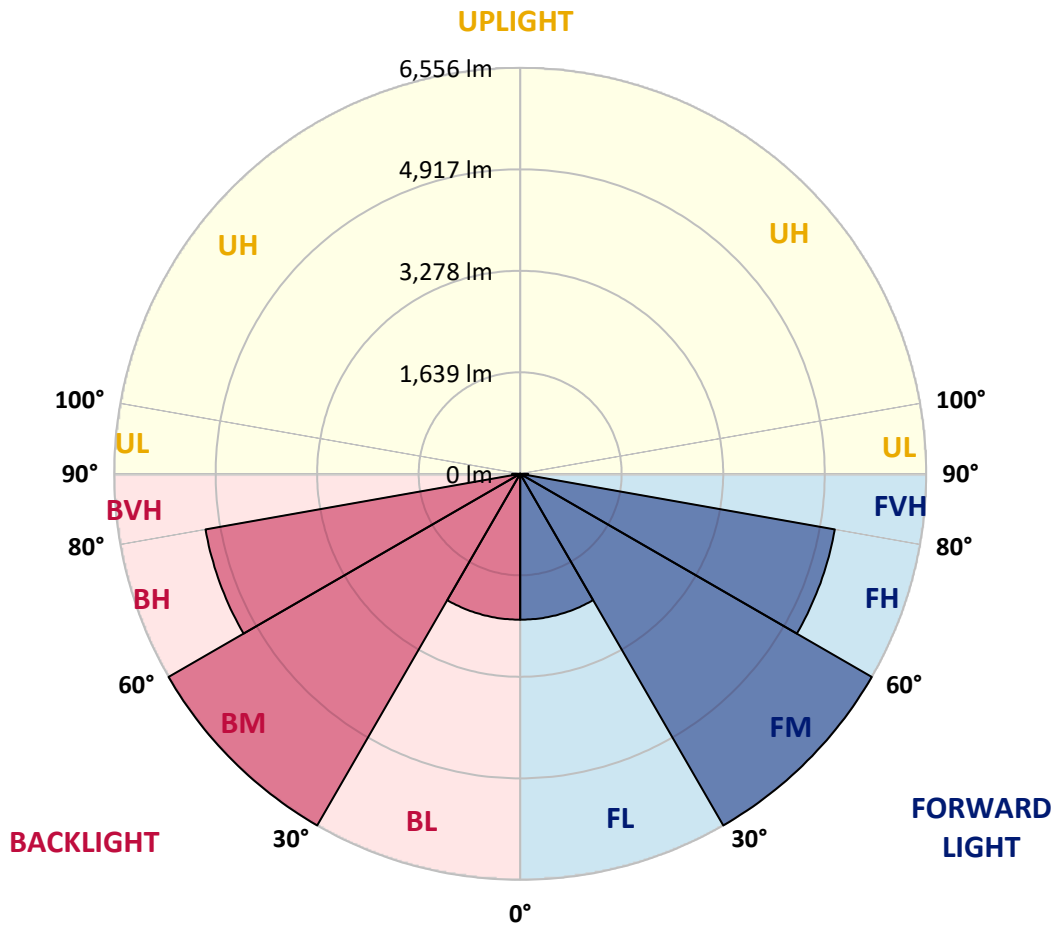
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.8	8.3			
FM (30°-60°)	6555.8	23.1			
FH (60°-80°)	5159.2	18.2			G3/7500
FVH (80°-90°)	130.3	0.5			G2/225
BL (0°-30°)	2355.8	8.3	B3/2500		
BM (30°-60°)	6555.8	23.1	B4/8500		
BH (60°-80°)	5159.2	18.2	B5		G5
BVH (80°-90°)	130.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5307.2	5307.2	5307.2	5307.2	5307.2	5307.2	5307.2	5307.2	5307.2	5307.2
2.5°	5311.7	5317.8	5317.8	5313.3	5323.8	5314.8	5314.8	5310.2	5314.8	5310.2
5°	5338.9	5346.5	5349.5	5348.0	5361.6	5354.0	5354.0	5348.0	5349.5	5344.9
7.5°	5390.2	5400.8	5406.8	5414.4	5434.0	5425.0	5418.9	5400.8	5393.3	5381.2
10°	5406.8	5418.9	5438.5	5477.8	5523.1	5524.6	5506.5	5461.2	5426.5	5399.3
12.5°	5355.5	5372.1	5412.9	5492.9	5594.0	5634.8	5606.1	5530.6	5462.7	5414.4
15°	5290.6	5308.7	5370.6	5491.4	5640.8	5735.9	5732.9	5633.3	5524.6	5449.1
17.5°	5189.5	5207.6	5296.6	5465.7	5677.0	5834.0	5876.3	5773.6	5621.2	5520.0
20°	5006.8	5023.4	5147.2	5384.2	5689.1	5938.2	6048.4	5957.8	5767.6	5630.2
22.5°	4769.9	4795.5	4940.4	5243.8	5660.4	6046.8	6244.6	6182.7	5938.2	5748.0
25°	4516.3	4543.4	4712.5	5071.7	5586.5	6125.3	6477.0	6437.8	6131.4	5894.4
27.5°	4297.4	4326.1	4510.2	4901.2	5471.7	6155.5	6706.5	6726.1	6365.3	6055.9
30°	4125.3	4152.5	4348.7	4763.8	5323.8	6125.3	6907.2	7043.1	6603.8	6196.3
32.5°	3936.6	3971.4	4178.1	4596.3	5148.7	6052.9	7082.3	7385.7	6880.1	6347.2
35°	3698.1	3729.8	3947.2	4366.8	4919.3	5936.7	7228.7	7766.1	7275.5	6576.7
37.5°	3408.3	3438.5	3654.4	4080.0	4691.4	5773.6	7340.4	8194.8	7746.5	6907.2
40°	3117.0	3145.7	3348.0	3760.0	4418.1	5565.3	7379.7	8614.4	8286.9	7361.6
42.5°	2849.8	2875.5	3061.2	3444.6	4111.7	5299.7	7328.4	8979.7	8771.4	7678.6
45°	2603.8	2626.4	2791.0	3148.7	3793.2	4976.6	7174.4	9372.2	9348.0	7905.0
47.5°	2323.0	2345.7	2516.2	2861.9	3474.7	4597.8	6913.3	9758.6	10149.5	8418.2
50°	1980.4	2000.0	2175.1	2531.3	3144.2	4194.8	6551.0	10062.0	11160.8	9195.5
52.5°	1574.4	1595.5	1766.1	2122.3	2751.7	3761.5	6074.0	10259.7	12329.2	10330.7
55°	1171.3	1186.4	1334.4	1654.4	2265.7	3268.0	5476.3	10315.6	13654.5	11882.4
57.5°	849.8	858.9	954.0	1192.5	1717.7	2650.6	4750.2	10170.6	15231.8	13871.8
60°	688.3	691.3	720.0	825.7	1194.0	1953.2	3873.2	9672.5	16943.5	16436.4
62.5°	624.9	624.9	632.5	661.1	807.6	1289.1	2812.1	8640.1	18779.0	19677.1
65°	581.1	581.1	584.2	597.7	637.0	821.1	1775.1	6958.5	20326.2	23473.4
67.5°	541.9	543.4	541.9	546.4	569.1	606.8	1029.4	4806.1	21159.4	27407.0
70°	501.1	504.2	496.6	496.6	514.7	516.2	644.5	2635.5	20468.1	30703.6
72.5°	452.8	457.4	445.3	442.3	455.9	449.8	484.5	1264.9	17573.0	31687.8
75°	410.6	416.6	389.4	381.9	381.9	377.4	394.0	649.1	11405.4	25849.3
77.5°	372.8	384.9	341.1	317.0	310.9	297.4	321.5	397.0	4988.7	12135.9
80°	307.9	324.5	280.8	252.1	241.5	226.4	253.6	277.7	1483.8	2818.1
82.5°	229.4	237.0	199.2	179.6	170.6	160.0	190.2	193.2	483.0	997.7
85°	146.4	149.4	122.3	105.7	101.1	96.6	120.8	105.7	184.2	733.6
87.5°	51.3	58.9	46.8	42.3	45.3	37.7	55.8	31.7	51.3	517.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

5307.2
5310.2
5344.9
5381.2
5394.8
5406.8
5437.0
5503.4
5604.6
5713.3
5846.1
6004.6
6122.3
6253.6
6472.5
6768.4
7213.6
7488.4
7648.4
8122.3
8824.2
9873.3
11310.3
13151.8
15529.2
18462.0
21936.8
25748.1
30267.4
32835.0
27648.5
11883.9
2698.9
1127.6
1065.7
641.5
0.0

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