

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: P949702

Luminaire Tested: **GALN-SB4B-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22607 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

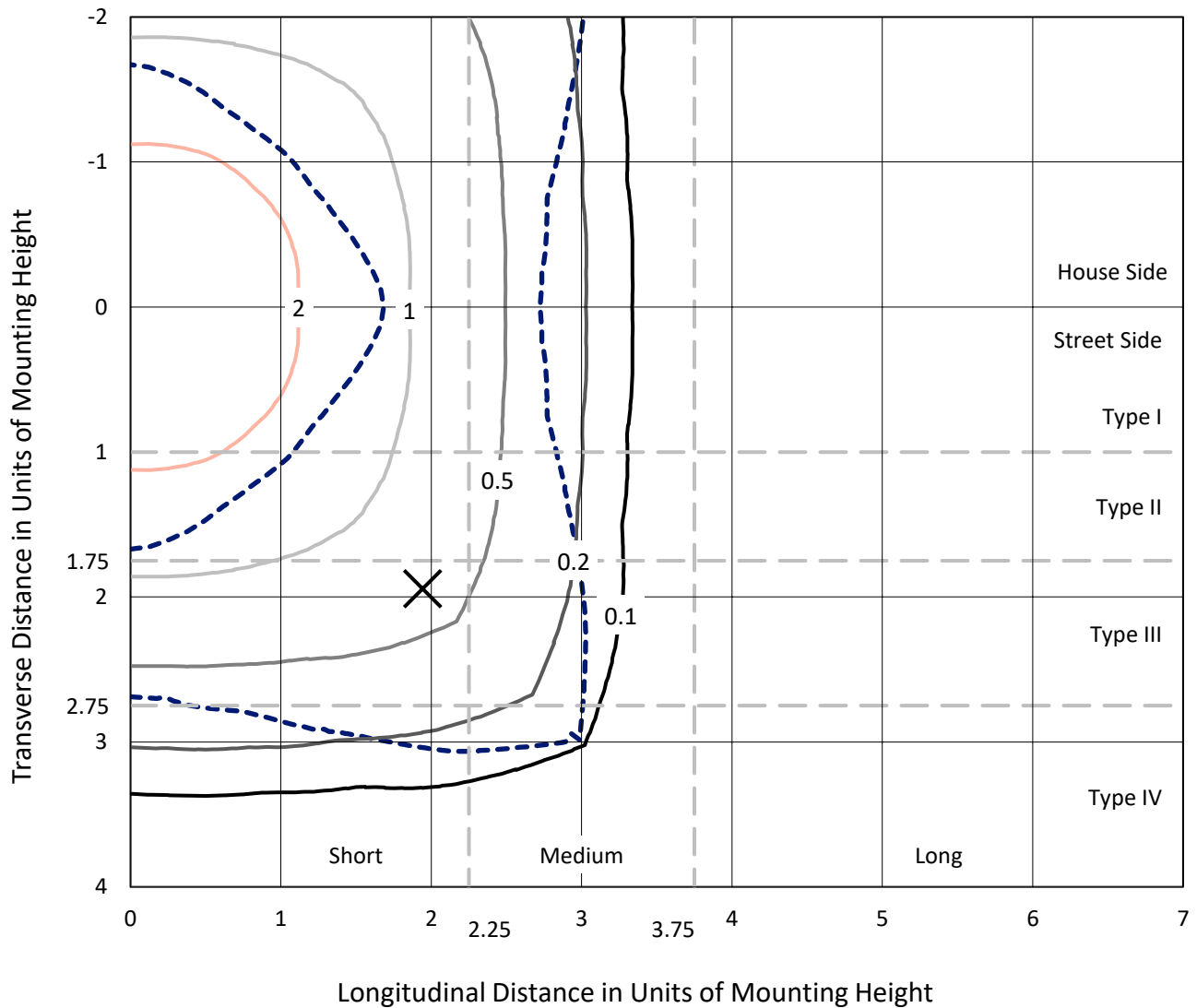
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949702
 CATALOG NUMBER: GALN-SB4B-850-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

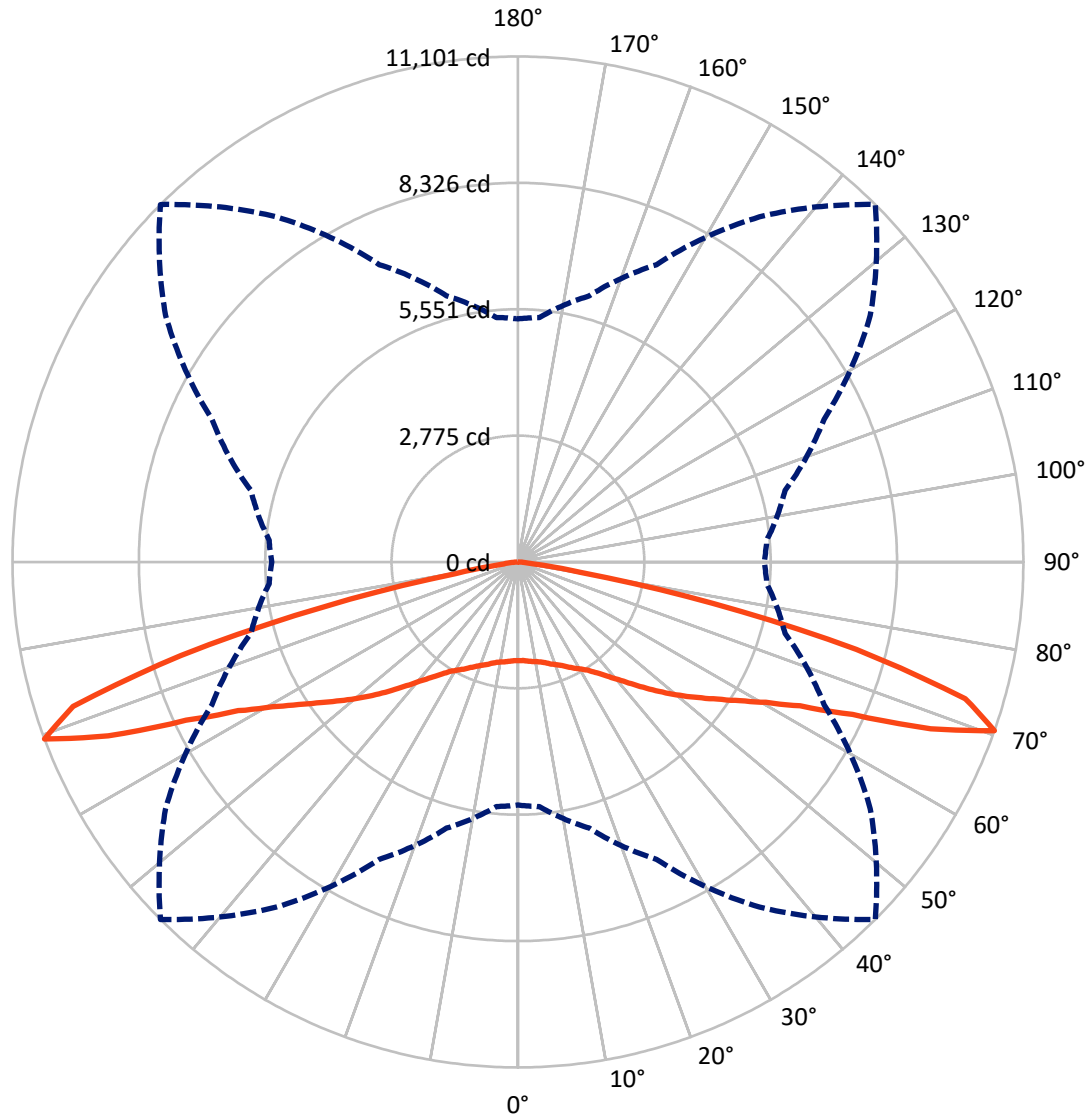
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P949702
CATALOG NUMBER: GALN-SB4B-850-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P949702

CATALOG NUMBER: GALN-SB4B-850-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11303.5	0.0	11303.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11303.5	0.0	11303.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22607.0	0.0	22607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	0.9
10°-20°	652.4	2.9
20°-30°	1165.9	5.2
30°-40°	1889.8	8.4
40°-50°	3078.2	13.6
50°-60°	4693.3	20.8
60°-70°	6982.1	30.9
70°-80°	3805.4	16.8
80°-90°	129.6	0.6
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°	22607.0	100.0
0°-180°	22607.0	100.0



REPORT NUMBER: P949702

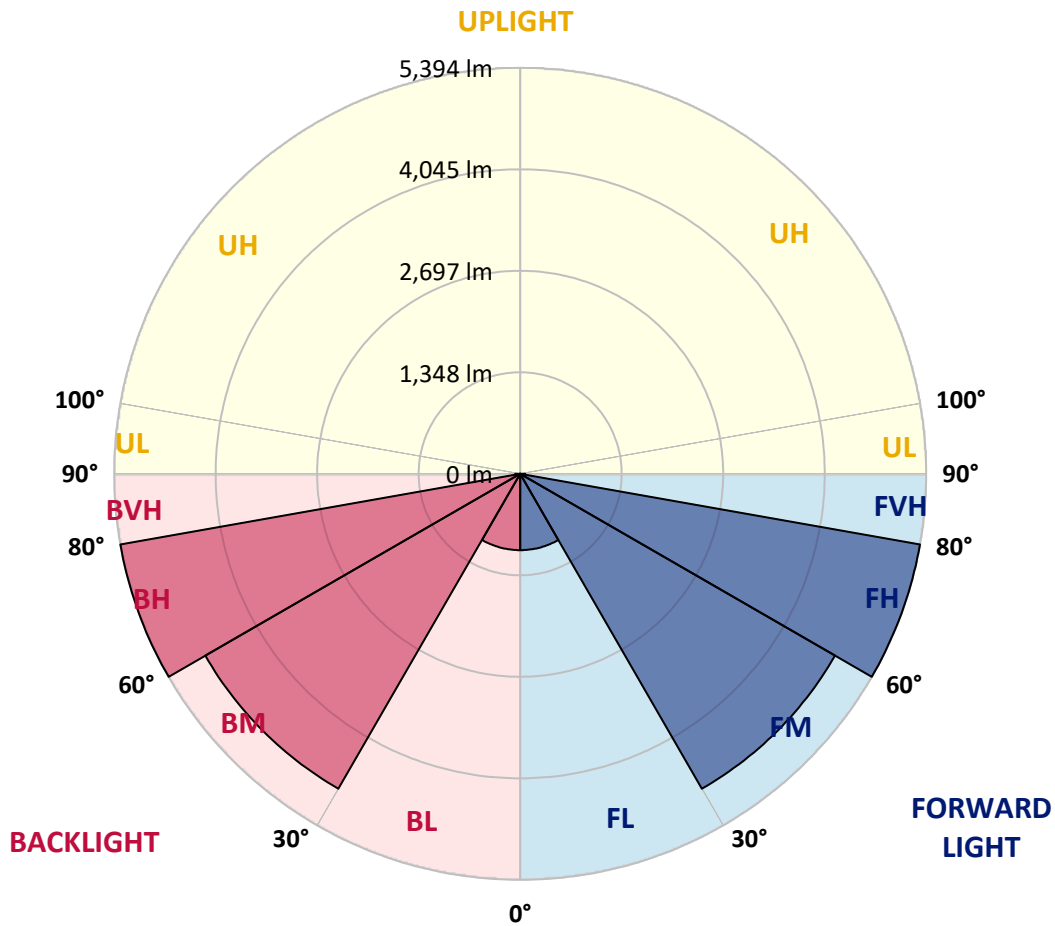
CATALOG NUMBER: GALN-SB4B-850-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.3	4.5			
FM (30°-60°)	4830.7	21.4			
FH (60°-80°)	5393.8	23.9			G3/7500
FVH (80°-90°)	64.8	0.3			G1/100
BL (0°-30°)	1014.3	4.5	B3/2500		
BM (30°-60°)	4830.7	21.4	B3/5000		
BH (60°-80°)	5393.8	23.9	B5		G3/7500
BVH (80°-90°)	64.8	0.3			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



REPORT NUMBER: P949702
 CATALOG NUMBER: GALN-SB4B-850-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5	2165.5
2.5°	2175.7	2178.0	2173.5	2171.2	2168.9	2165.5	2166.7	2172.3	2176.9	2175.7
5°	2193.9	2196.2	2192.8	2191.6	2187.1	2185.9	2185.9	2191.6	2195.0	2192.8
7.5°	2214.3	2217.7	2212.1	2210.9	2208.6	2206.4	2205.2	2210.9	2214.3	2214.3
10°	2233.6	2237.0	2232.5	2229.1	2226.8	2226.8	2224.5	2229.1	2234.7	2233.6
12.5°	2254.0	2256.3	2251.8	2249.5	2249.5	2252.9	2249.5	2251.8	2256.3	2254.0
15°	2279.0	2280.1	2279.0	2282.4	2288.1	2299.4	2289.2	2287.0	2289.2	2283.6
17.5°	2313.1	2315.3	2319.9	2327.8	2335.8	2356.2	2338.0	2332.4	2332.4	2321.0
20°	2355.1	2358.5	2365.3	2378.9	2389.1	2408.4	2390.2	2382.3	2378.9	2364.1
22.5°	2399.3	2405.0	2415.2	2433.4	2451.5	2469.7	2451.5	2437.9	2427.7	2408.4
25°	2450.4	2457.2	2473.1	2502.6	2527.6	2553.7	2532.1	2504.9	2484.4	2457.2
27.5°	2523.0	2531.0	2550.3	2586.6	2618.4	2641.1	2620.6	2585.5	2557.1	2524.2
30°	2625.2	2633.1	2655.8	2694.4	2716.0	2730.7	2717.1	2689.9	2655.8	2618.4
32.5°	2756.8	2767.0	2792.0	2828.3	2832.9	2835.1	2830.6	2817.0	2792.0	2746.6
35°	2923.7	2935.0	2963.4	2992.9	2988.4	2992.9	2986.1	2981.6	2963.4	2911.2
37.5°	3128.0	3141.6	3171.1	3193.8	3182.4	3176.8	3177.9	3179.0	3168.8	3110.9
40°	3365.2	3383.3	3404.9	3428.7	3409.4	3392.4	3403.8	3412.8	3403.8	3344.7
42.5°	3609.2	3635.3	3658.0	3692.0	3676.2	3654.6	3670.5	3680.7	3661.4	3597.8
45°	3880.5	3905.4	3934.9	3986.0	3974.7	3952.0	3974.7	3976.9	3944.0	3869.1
47.5°	4160.8	4186.9	4231.2	4299.3	4294.7	4269.7	4299.3	4283.4	4241.4	4151.7
50°	4426.4	4462.7	4530.8	4626.1	4635.2	4604.6	4644.3	4613.6	4543.3	4430.9
52.5°	4676.1	4714.7	4822.5	4951.9	4984.8	4945.1	4998.4	4945.1	4839.5	4695.4
55°	4938.2	4981.4	5109.6	5278.7	5344.6	5315.0	5365.0	5284.4	5134.6	4959.8
57.5°	5247.0	5273.1	5426.3	5627.2	5738.4	5745.2	5767.9	5631.7	5450.1	5251.5
60°	5581.8	5618.1	5784.9	6025.5	6201.5	6258.2	6234.4	6032.3	5821.2	5593.1
62.5°	6010.8	6050.5	6250.3	6538.5	6816.6	6957.3	6864.3	6571.5	6310.4	6036.9
65°	6366.0	6410.3	6771.2	7285.4	7791.5	8074.2	7840.4	7301.2	6831.4	6445.5
67.5°	6108.4	6162.9	6729.2	7673.5	8932.2	9775.5	8975.3	7789.3	6868.8	6345.6
70°	5338.9	5390.0	6050.5	7204.8	9253.4	11101.1	9446.3	7417.0	6072.1	5486.4
72.5°	3544.5	3709.1	4377.6	5762.2	8262.6	10272.6	8344.3	5645.3	4060.9	3536.6
75°	1175.8	1307.5	1763.7	2987.2	5534.1	7682.6	5268.5	2643.3	1397.1	1005.6
77.5°	296.2	341.6	471.0	854.6	2207.5	4374.2	1987.3	698.0	380.2	265.6
80°	144.1	158.9	227.0	284.9	552.7	1390.3	518.7	267.9	179.3	138.5
82.5°	79.4	80.6	128.3	161.2	205.4	359.8	213.4	156.6	103.3	84.0
85°	48.8	47.7	68.1	86.3	86.3	128.3	102.1	86.3	59.0	52.2
87.5°	19.3	19.3	25.0	27.2	23.8	32.9	26.1	28.4	22.7	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2165.5
2176.9
2193.9
2214.3
2233.6
2252.9
2283.6
2321.0
2364.1
2407.3
2456.1
2523.0
2618.4
2747.8
2911.2
3110.9
3344.7
3602.4
3877.0
4146.0
4428.6
4681.7
4936.0
5224.3
5556.8
5989.2
6381.9
6267.3
5408.1
3421.9
951.1
237.2
127.1
84.0
54.5
22.7
0.0

OF REPORT)