

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: P949555

Luminaire Tested: **GALN-SB4B-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949555
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25005 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

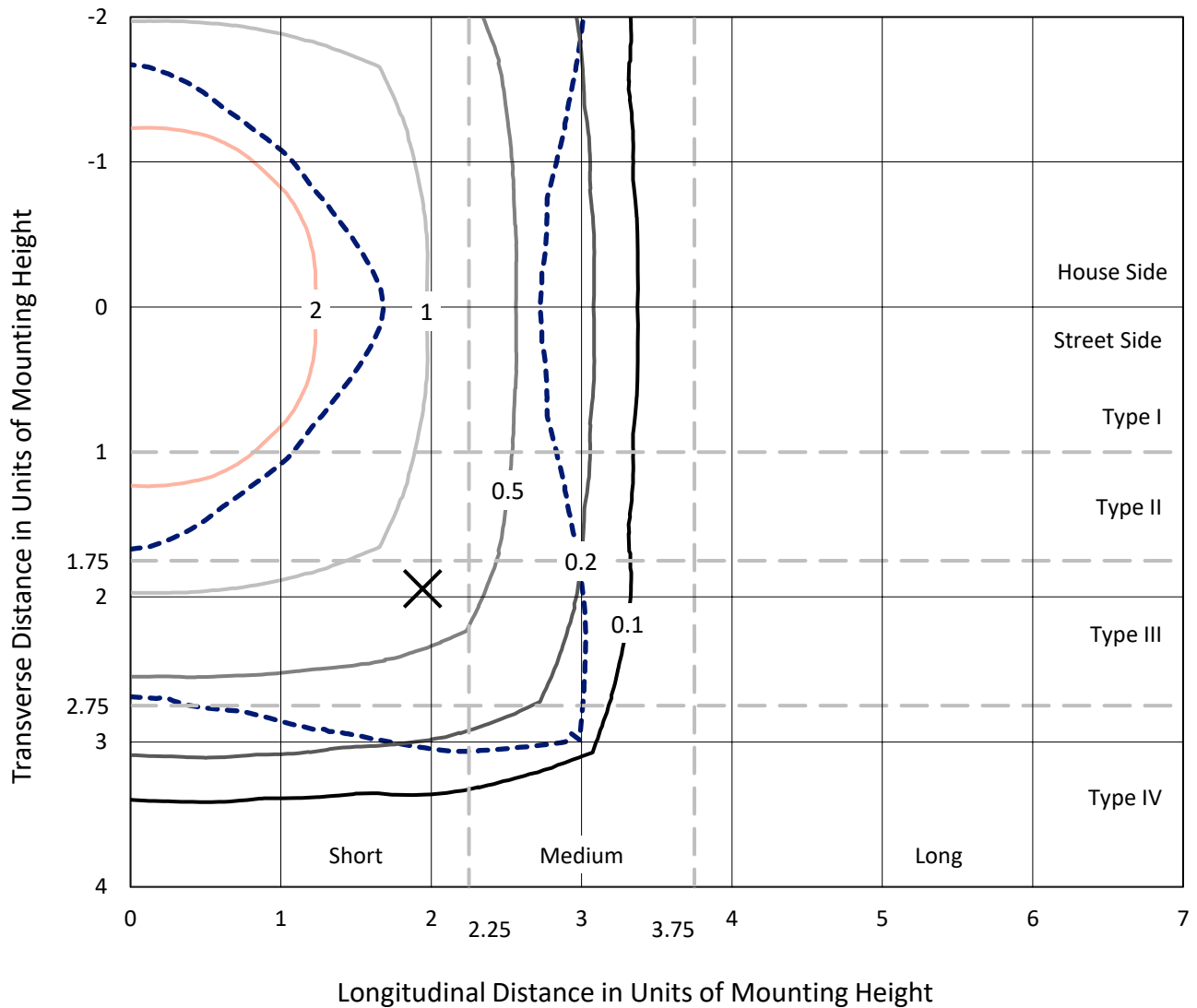
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949555
 CATALOG NUMBER: GALN-SB4B-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

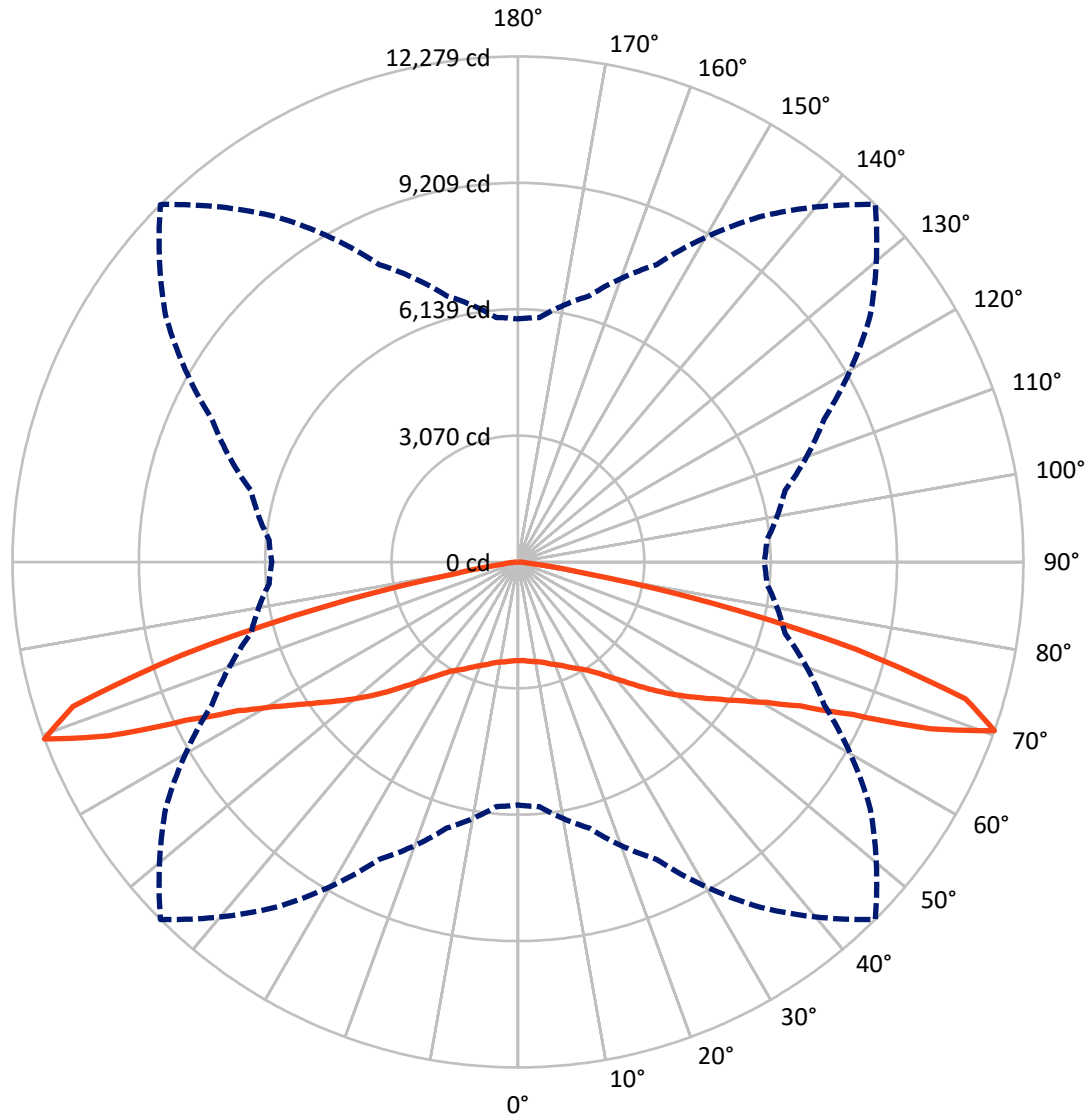
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P949555
CATALOG NUMBER: GALN-SB4B-740-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P949555
 CATALOG NUMBER: GALN-SB4B-740-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12502.5	0.0	12502.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12502.5	0.0	12502.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25005.0	0.0	25005.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	0.9
10°-20°	721.6	2.9
20°-30°	1289.5	5.2
30°-40°	2090.3	8.4
40°-50°	3404.7	13.6
50°-60°	5191.1	20.8
60°-70°	7722.7	30.9
70°-80°	4209.1	16.8
80°-90°	143.3	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°	25005.0	100.0
0°-180°	25005.0	100.0



REPORT NUMBER: P949555

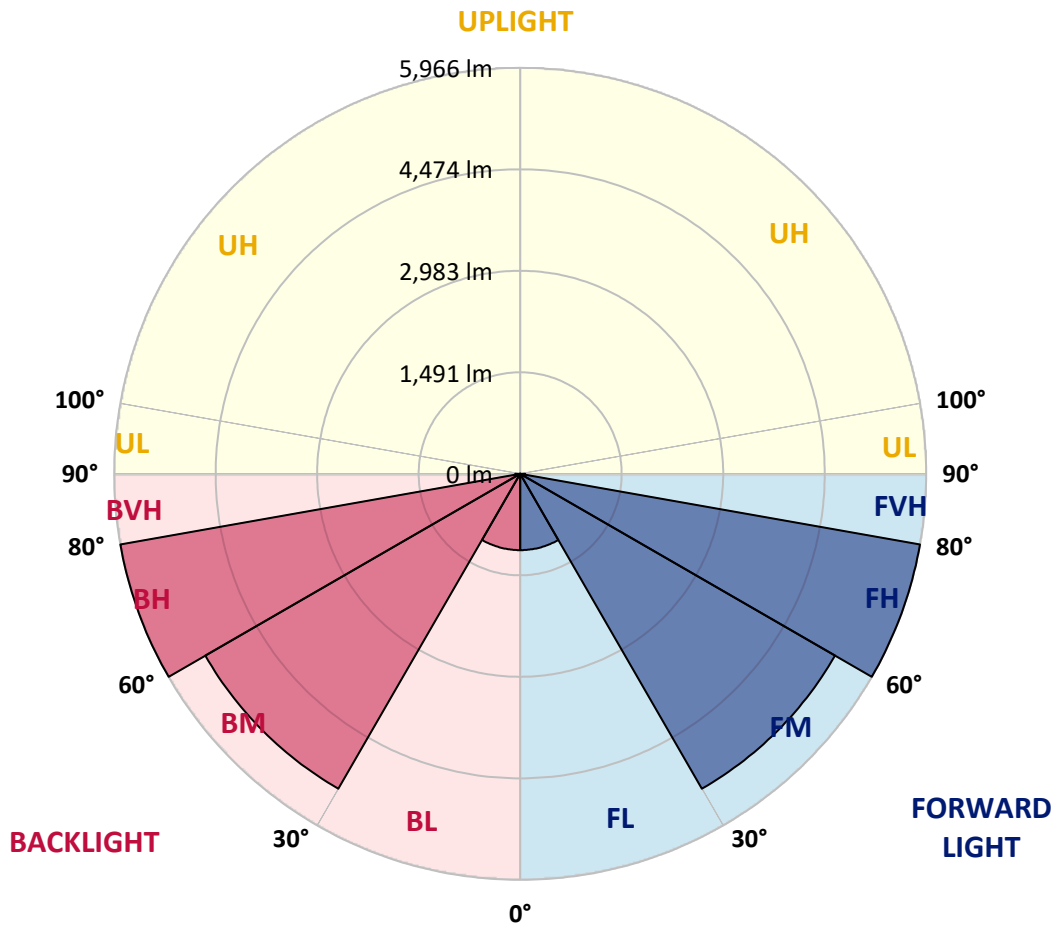
CATALOG NUMBER: GALN-SB4B-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.9	4.5			
FM (30°-60°)	5343.1	21.4			
FH (60°-80°)	5965.9	23.9			G3/7500
FVH (80°-90°)	71.7	0.3			G1/100
BL (0°-30°)	1121.9	4.5	B3/2500		
BM (30°-60°)	5343.1	21.4	B4/8500		
BH (60°-80°)	5965.9	23.9	B5		G3/7500
BVH (80°-90°)	71.7	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: P949555
 CATALOG NUMBER: GALN-SB4B-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2
2.5°	2406.5	2409.0	2404.0	2401.5	2399.0	2395.2	2396.5	2402.8	2407.8	2406.5
5°	2426.6	2429.1	2425.3	2424.1	2419.1	2417.8	2417.8	2424.1	2427.9	2425.3
7.5°	2449.2	2453.0	2446.7	2445.4	2442.9	2440.4	2439.2	2445.4	2449.2	2449.2
10°	2470.5	2474.3	2469.3	2465.5	2463.0	2463.0	2460.5	2465.5	2471.8	2470.5
12.5°	2493.1	2495.6	2490.6	2488.1	2488.1	2491.9	2488.1	2490.6	2495.6	2493.1
15°	2520.8	2522.0	2520.8	2524.5	2530.8	2543.4	2532.1	2529.5	2532.1	2525.8
17.5°	2558.4	2560.9	2565.9	2574.7	2583.5	2606.1	2586.0	2579.8	2579.8	2567.2
20°	2604.9	2608.6	2616.2	2631.2	2642.5	2663.9	2643.8	2635.0	2631.2	2614.9
22.5°	2653.8	2660.1	2671.4	2691.5	2711.6	2731.7	2711.6	2696.5	2685.2	2663.9
25°	2710.3	2717.8	2735.4	2768.1	2795.7	2824.6	2800.7	2770.6	2748.0	2717.8
27.5°	2790.7	2799.4	2820.8	2861.0	2896.1	2921.2	2898.6	2859.7	2828.3	2791.9
30°	2903.6	2912.4	2937.5	2980.2	3004.1	3020.4	3005.3	2975.2	2937.5	2896.1
32.5°	3049.3	3060.6	3088.2	3128.3	3133.4	3135.9	3130.9	3115.8	3088.2	3038.0
35°	3233.8	3246.4	3277.7	3310.4	3305.4	3310.4	3302.8	3297.8	3277.7	3220.0
37.5°	3459.8	3474.8	3507.5	3532.6	3520.0	3513.7	3515.0	3516.3	3505.0	3440.9
40°	3722.1	3742.2	3766.1	3792.4	3771.1	3752.3	3764.8	3774.9	3764.8	3699.5
42.5°	3992.0	4020.9	4046.0	4083.7	4066.1	4042.2	4059.8	4071.1	4049.8	3979.5
45°	4292.1	4319.7	4352.3	4408.8	4396.3	4371.2	4396.3	4398.8	4362.4	4279.5
47.5°	4602.1	4631.0	4680.0	4755.3	4750.3	4722.7	4755.3	4737.7	4691.3	4592.1
50°	4895.9	4936.1	5011.4	5116.8	5126.9	5093.0	5136.9	5103.0	5025.2	4900.9
52.5°	5172.1	5214.8	5334.0	5477.1	5513.5	5469.6	5528.6	5469.6	5352.8	5193.4
55°	5462.1	5509.8	5651.6	5838.7	5911.5	5878.8	5934.1	5844.9	5679.2	5485.9
57.5°	5803.5	5832.4	6001.9	6224.1	6347.1	6354.6	6379.7	6229.1	6028.2	5808.5
60°	6173.8	6214.0	6398.6	6664.7	6859.3	6922.0	6895.7	6672.2	6438.7	6186.4
62.5°	6648.4	6692.3	6913.2	7232.1	7539.7	7695.3	7592.4	7268.5	6979.8	6677.2
65°	7041.3	7090.3	7489.5	8058.1	8618.0	8930.6	8672.0	8075.7	7556.0	7129.2
67.5°	6756.3	6816.6	7443.0	8487.5	9879.7	10812.4	9927.4	8615.5	7597.4	7018.7
70°	5905.2	5961.7	6692.3	7969.0	10234.9	12278.6	10448.3	8203.8	6716.2	6068.4
72.5°	3920.5	4102.5	4841.9	6373.4	9139.0	11362.2	9229.4	6244.1	4491.7	3911.7
75°	1300.5	1446.2	1950.8	3304.1	6121.1	8497.5	5827.4	2923.7	1545.3	1112.2
77.5°	327.6	377.9	521.0	945.3	2441.7	4838.1	2198.1	772.0	420.5	293.8
80°	159.4	175.7	251.1	315.1	611.4	1537.8	573.7	296.3	198.3	153.2
82.5°	87.9	89.1	141.9	178.3	227.2	397.9	236.0	173.2	114.2	92.9
85°	54.0	52.7	75.3	95.4	95.4	141.9	113.0	95.4	65.3	57.7
87.5°	21.3	21.3	27.6	30.1	26.4	36.4	28.9	31.4	25.1	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2395.2
2407.8
2426.6
2449.2
2470.5
2491.9
2525.8
2567.2
2614.9
2662.6
2716.6
2790.7
2896.1
3039.2
3220.0
3440.9
3699.5
3984.5
4288.3
4585.8
4898.4
5178.3
5459.5
5778.4
6146.2
6624.5
7058.9
6932.1
5981.8
3784.9
1052.0
262.4
140.6
92.9
60.3
25.1
0.0

OF REPORT)