

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: P947413

Luminaire Tested: **GALN-SB2D-740-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947413  
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-SB2D-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

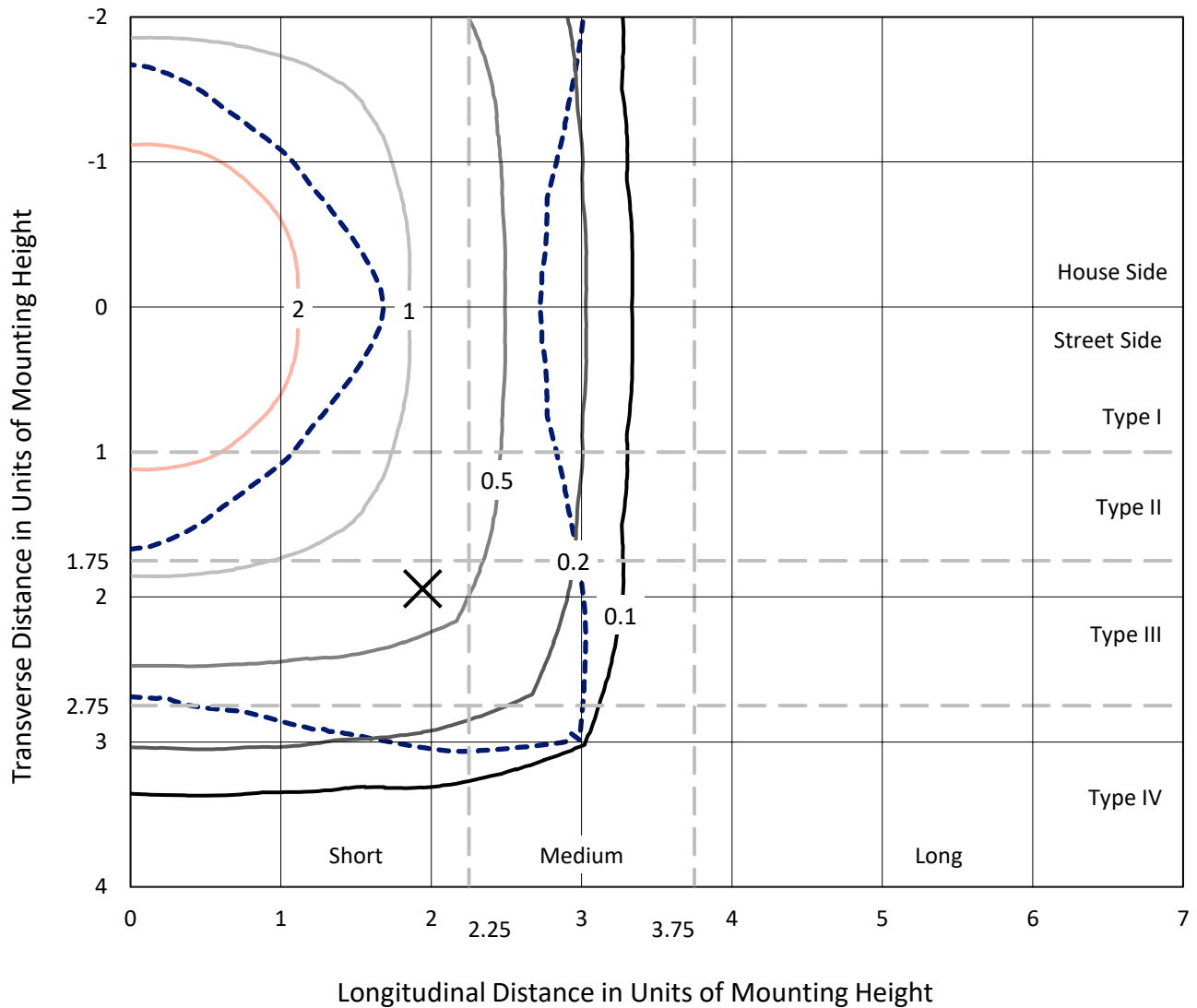
Lumens per Lamp: N/A  
Luminaire Lumens: 22547 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947413  
 CATALOG NUMBER: GALN-SB2D-740-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

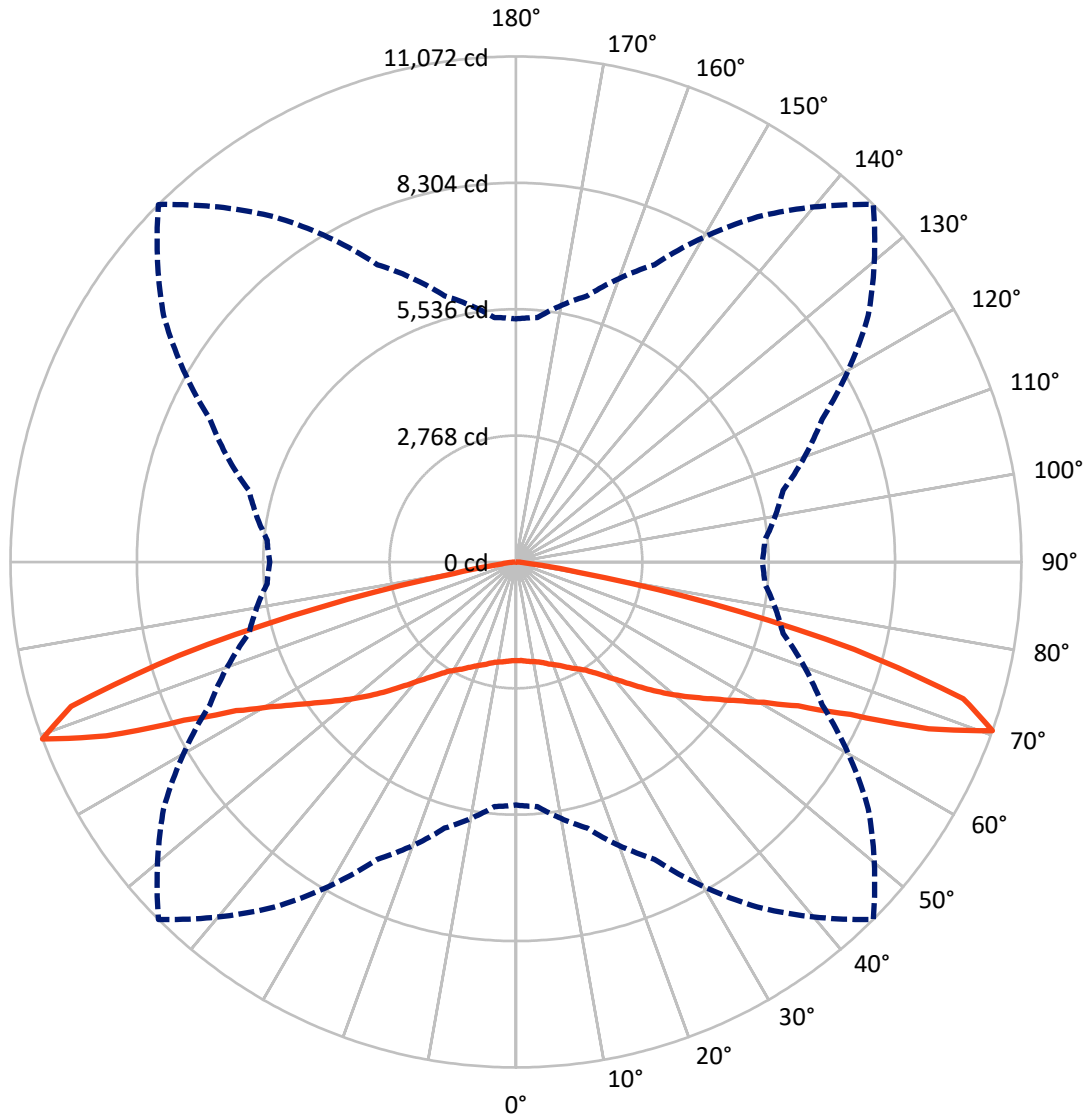
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P947413  
CATALOG NUMBER: GALN-SB2D-740-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P947413  
 CATALOG NUMBER: GALN-SB2D-740-U-5MQ

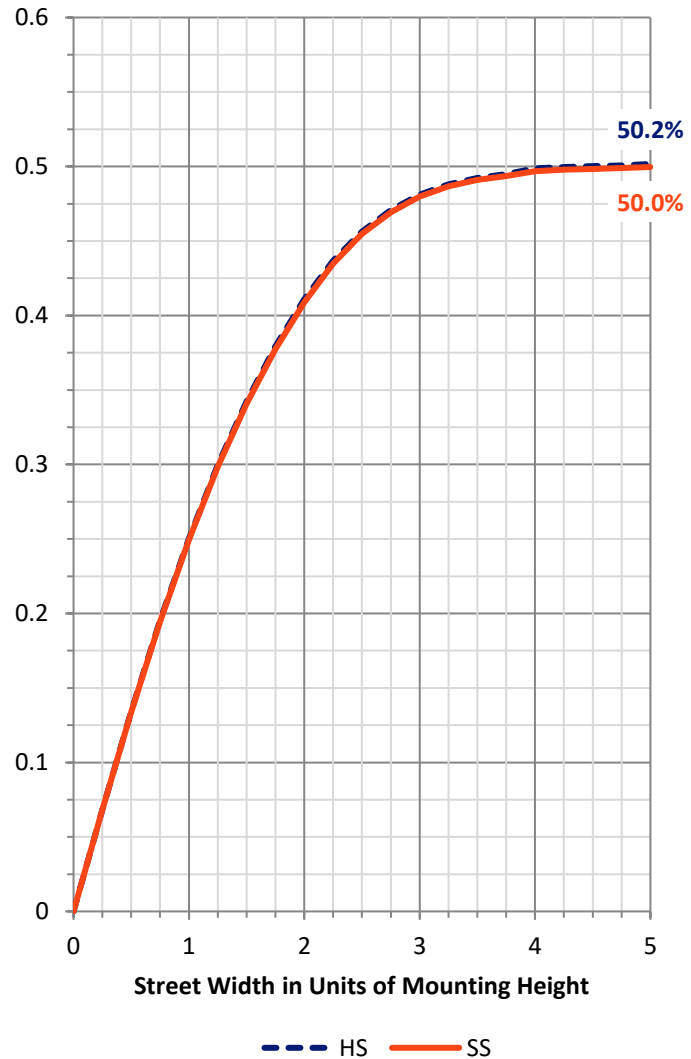
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11273.5	0.0	11273.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11273.5	0.0	11273.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22547.0	0.0	22547.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.8	0.9
10°-20°	650.6	2.9
20°-30°	1162.8	5.2
30°-40°	1884.8	8.4
40°-50°	3070.1	13.6
50°-60°	4680.8	20.8
60°-70°	6963.5	30.9
70°-80°	3795.3	16.8
80°-90°	129.2	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°	22547.0	100.0
0°-180°	22547.0	100.0



REPORT NUMBER: P947413

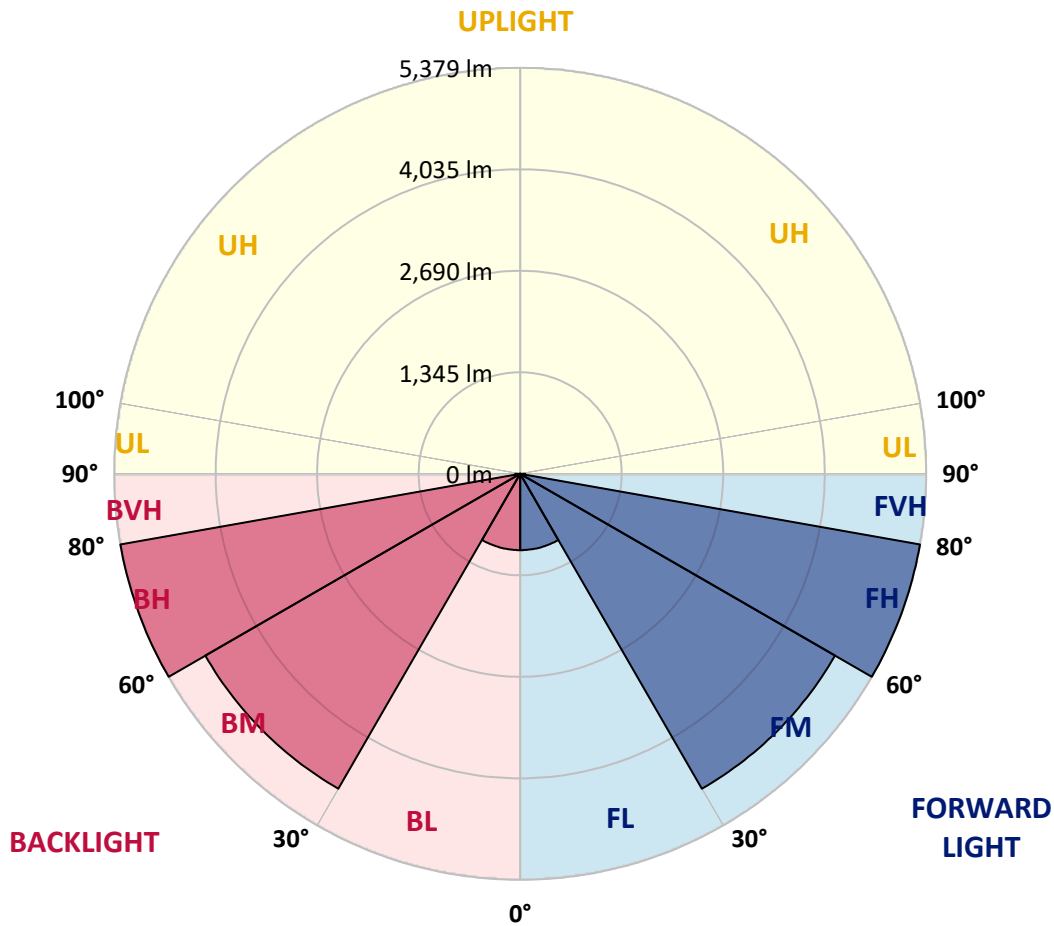
CATALOG NUMBER: GALN-SB2D-740-U-5MQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.6	4.5			
FM (30°-60°)	4817.8	21.4			
FH (60°-80°)	5379.4	23.9			G3/7500
FVH (80°-90°)	64.6	0.3			G1/100
BL (0°-30°)	1011.6	4.5	B3/2500		
BM (30°-60°)	4817.8	21.4	B3/5000		
BH (60°-80°)	5379.4	23.9	B5		G3/7500
BVH (80°-90°)	64.6	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: P947413  
 CATALOG NUMBER: GALN-SB2D-740-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2170.0	2172.2	2167.7	2165.4	2163.2	2159.8	2160.9	2166.6	2171.1	2170.0
5°	2188.1	2190.3	2186.9	2185.8	2181.3	2180.1	2180.1	2185.8	2189.2	2186.9
7.5°	2208.4	2211.8	2206.2	2205.0	2202.8	2200.5	2199.4	2205.0	2208.4	2208.4
10°	2227.7	2231.1	2226.6	2223.2	2220.9	2220.9	2218.6	2223.2	2228.8	2227.7
12.5°	2248.1	2250.3	2245.8	2243.5	2243.5	2246.9	2243.5	2245.8	2250.3	2248.1
15°	2273.0	2274.1	2273.0	2276.4	2282.0	2293.3	2283.2	2280.9	2283.2	2277.5
17.5°	2306.9	2309.2	2313.7	2321.6	2329.6	2349.9	2331.8	2326.2	2326.2	2314.8
20°	2348.8	2352.2	2359.0	2372.6	2382.8	2402.0	2383.9	2376.0	2372.6	2357.9
22.5°	2393.0	2398.6	2408.8	2426.9	2445.0	2463.1	2445.0	2431.4	2421.3	2402.0
25°	2443.9	2450.7	2466.5	2496.0	2520.9	2546.9	2525.4	2498.2	2477.8	2450.7
27.5°	2516.3	2524.3	2543.5	2579.7	2611.4	2634.1	2613.7	2578.6	2550.3	2517.5
30°	2618.2	2626.1	2648.8	2687.3	2708.8	2723.5	2709.9	2682.7	2648.8	2611.4
32.5°	2749.5	2759.7	2784.6	2820.8	2825.4	2827.6	2823.1	2809.5	2784.6	2739.3
35°	2915.9	2927.2	2955.5	2985.0	2980.4	2985.0	2978.2	2973.6	2955.5	2903.5
37.5°	3119.7	3133.3	3162.7	3185.3	3174.0	3168.3	3169.5	3170.6	3160.4	3102.7
40°	3356.2	3374.4	3395.9	3419.6	3400.4	3383.4	3394.7	3403.8	3394.7	3335.9
42.5°	3599.6	3625.7	3648.3	3682.2	3666.4	3644.9	3660.7	3670.9	3651.7	3588.3
45°	3870.2	3895.1	3924.5	3975.4	3964.1	3941.5	3964.1	3966.4	3933.5	3858.8
47.5°	4149.7	4175.8	4219.9	4287.8	4283.3	4258.4	4287.8	4272.0	4230.1	4140.7
50°	4414.6	4450.8	4518.8	4613.8	4622.9	4592.3	4632.0	4601.4	4531.2	4419.2
52.5°	4663.7	4702.1	4809.7	4938.7	4971.5	4931.9	4985.1	4931.9	4826.7	4682.9
55°	4925.1	4968.1	5096.1	5264.7	5330.4	5300.9	5350.7	5270.4	5121.0	4946.6
57.5°	5233.0	5259.1	5411.9	5612.2	5723.2	5730.0	5752.6	5616.8	5435.6	5237.6
60°	5567.0	5603.2	5769.6	6009.5	6185.0	6241.6	6217.8	6016.3	5805.8	5578.3
62.5°	5994.8	6034.4	6233.7	6521.2	6798.5	6938.9	6846.1	6554.0	6293.7	6020.9
65°	6349.1	6393.3	6753.2	7266.0	7770.9	8052.7	7819.5	7281.9	6813.2	6428.4
67.5°	6092.2	6146.5	6711.4	7653.1	8908.5	9749.5	8951.5	7768.6	6850.6	6328.8
70°	5324.7	5375.7	6034.4	7185.6	9228.8	11071.6	9421.3	7397.3	6056.0	5471.9
72.5°	3535.1	3699.2	4365.9	5746.9	8240.6	10245.3	8322.1	5630.3	4050.1	3527.2
75°	1172.7	1304.0	1759.1	2979.3	5519.4	7662.2	5254.5	2636.3	1393.4	1002.9
77.5°	295.4	340.7	469.8	852.4	2201.7	4362.6	1982.1	696.2	379.2	264.9
80°	143.8	158.5	226.4	284.1	551.3	1386.6	517.3	267.1	178.8	138.1
82.5°	79.2	80.4	127.9	160.7	204.9	358.8	212.8	156.2	103.0	83.8
85°	48.7	47.5	67.9	86.0	86.0	127.9	101.9	86.0	58.9	52.1
87.5°	19.2	19.2	24.9	27.2	23.8	32.8	26.0	28.3	22.6	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2159.8
2171.1
2188.1
2208.4
2227.7
2246.9
2277.5
2314.8
2357.9
2400.9
2449.5
2516.3
2611.4
2740.5
2903.5
3102.7
3335.9
3592.8
3866.8
4135.0
4416.9
4669.3
4922.9
5210.4
5542.0
5973.3
6365.0
6250.7
5393.8
3412.8
948.6
236.6
126.8
83.8
54.3
22.6
0.0

OF REPORT)