

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: P948631

Luminaire Tested: **GALN-SB3C-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948631  
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-SB3C-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

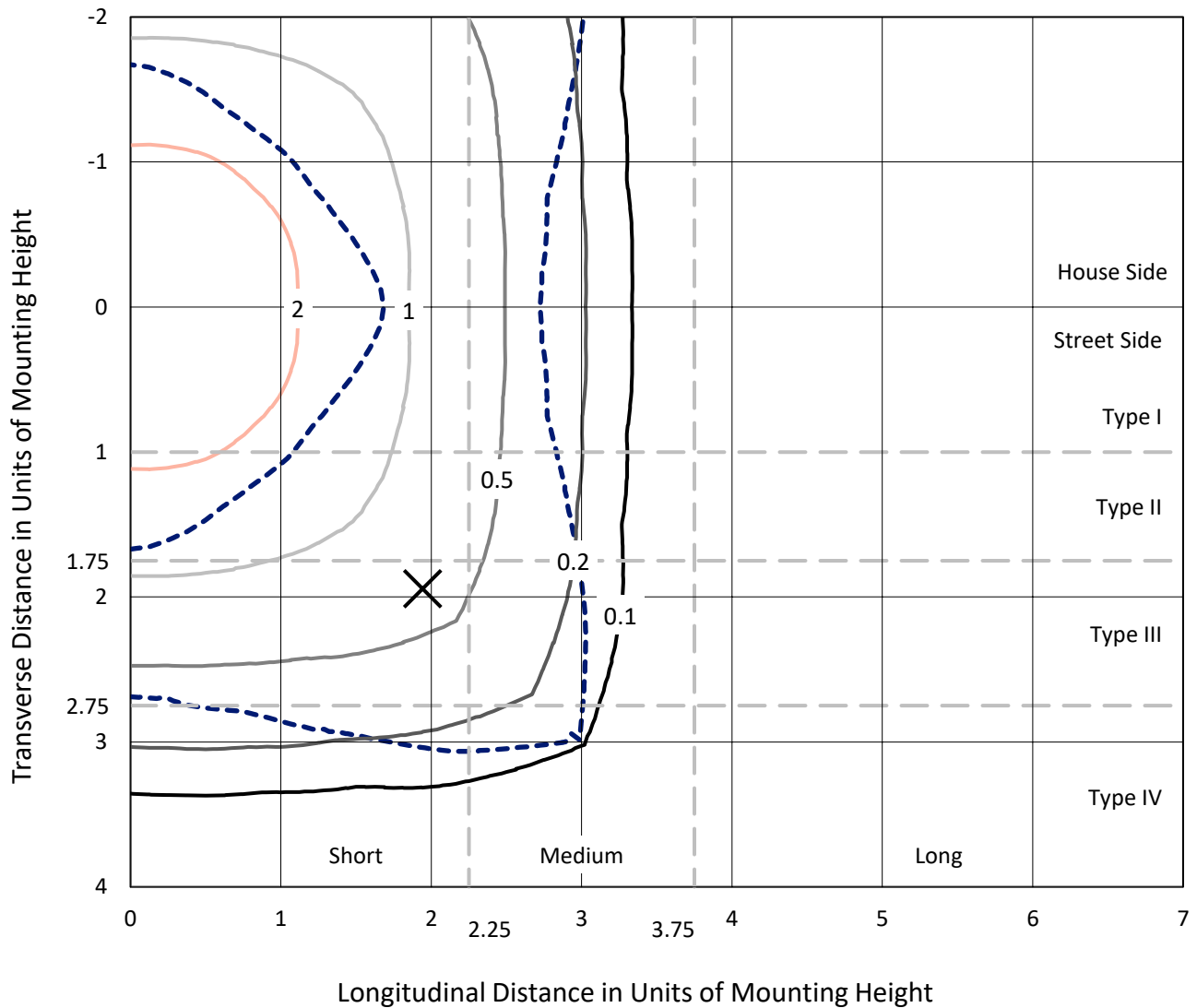
Lumens per Lamp: N/A  
Luminaire Lumens: 22509 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P948631  
 CATALOG NUMBER: GALN-SB3C-850-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

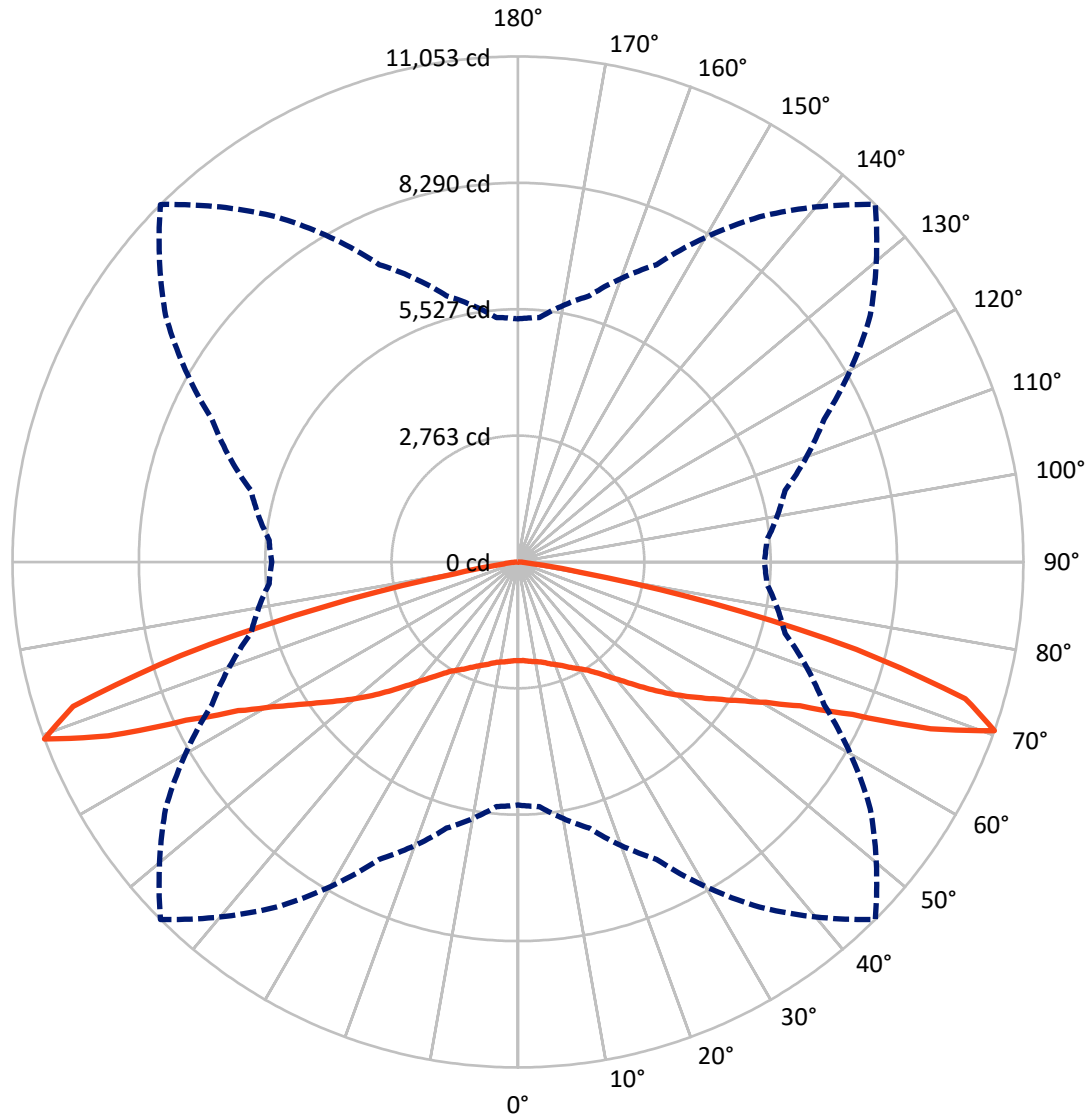
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P948631  
CATALOG NUMBER: GALN-SB3C-850-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P948631

CATALOG NUMBER: GALN-SB3C-850-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11254.5	0.0	11254.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11254.5	0.0	11254.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22509.0	0.0	22509.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.5	0.9
10°-20°	649.5	2.9
20°-30°	1160.8	5.2
30°-40°	1881.6	8.4
40°-50°	3064.9	13.6
50°-60°	4672.9	20.8
60°-70°	6951.8	30.9
70°-80°	3789.0	16.8
80°-90°	129.0	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°	22509.0	100.0
0°-180°	22509.0	100.0



REPORT NUMBER: P948631

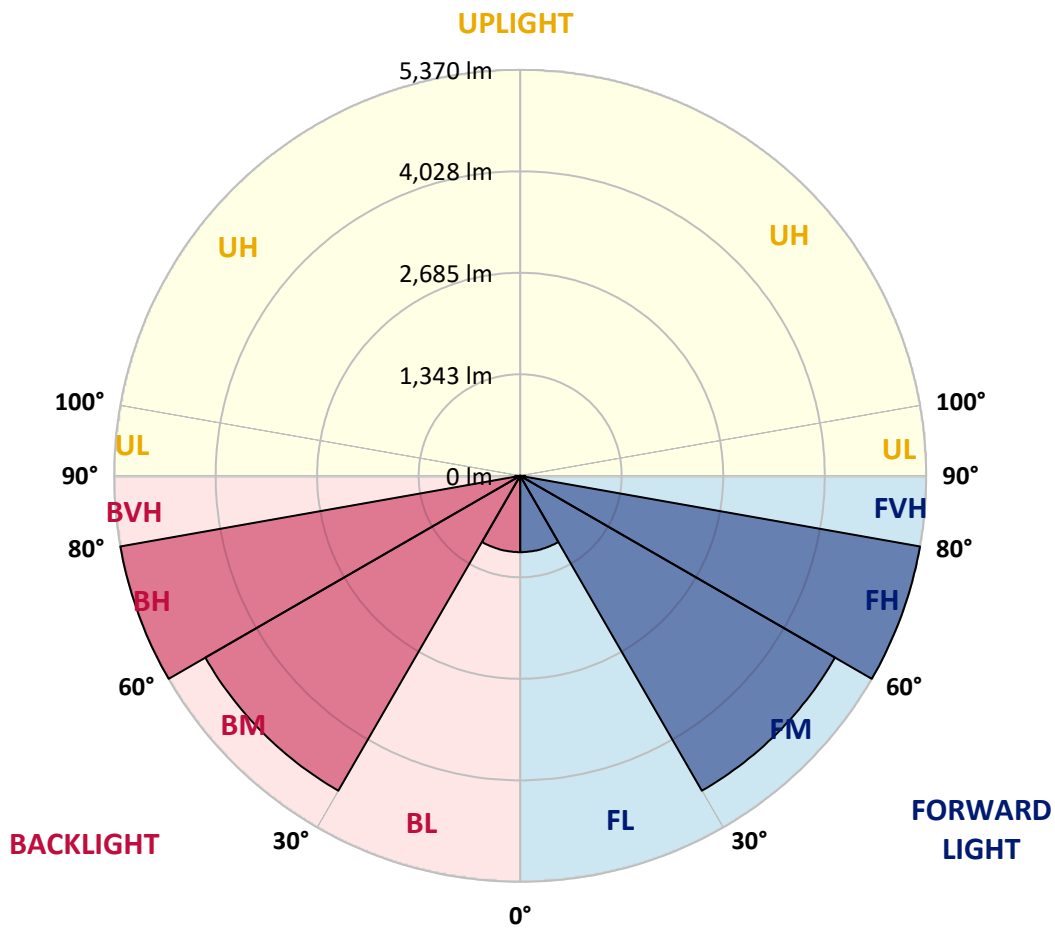
CATALOG NUMBER: GALN-SB3C-850-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.9	4.5			
FM (30°-60°)	4809.7	21.4			
FH (60°-80°)	5370.4	23.9			G3/7500
FVH (80°-90°)	64.5	0.3			G1/100
BL (0°-30°)	1009.9	4.5	B3/2500		
BM (30°-60°)	4809.7	21.4	B3/5000		
BH (60°-80°)	5370.4	23.9	B5		G3/7500
BVH (80°-90°)	64.5	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: P948631

CATALOG NUMBER: GALN-SB3C-850-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1
2.5°	2166.3	2168.6	2164.0	2161.8	2159.5	2156.1	2157.3	2162.9	2167.4	2166.3
5°	2184.4	2186.6	2183.3	2182.1	2177.6	2176.5	2176.5	2182.1	2185.5	2183.3
7.5°	2204.7	2208.1	2202.5	2201.3	2199.1	2196.8	2195.7	2201.3	2204.7	2204.7
10°	2223.9	2227.3	2222.8	2219.4	2217.2	2217.2	2214.9	2219.4	2225.1	2223.9
12.5°	2244.3	2246.5	2242.0	2239.8	2239.8	2243.1	2239.8	2242.0	2246.5	2244.3
15°	2269.1	2270.3	2269.1	2272.5	2278.2	2289.5	2279.3	2277.0	2279.3	2273.7
17.5°	2303.0	2305.3	2309.8	2317.7	2325.6	2346.0	2327.9	2322.2	2322.2	2310.9
20°	2344.8	2348.2	2355.0	2368.6	2378.7	2398.0	2379.9	2372.0	2368.6	2353.9
22.5°	2388.9	2394.6	2404.7	2422.8	2440.9	2459.0	2440.9	2427.3	2417.2	2398.0
25°	2439.8	2446.6	2462.4	2491.8	2516.6	2542.6	2521.1	2494.0	2473.7	2446.6
27.5°	2512.1	2520.0	2539.2	2575.4	2607.0	2629.6	2609.3	2574.2	2546.0	2513.2
30°	2613.8	2621.7	2644.3	2682.7	2704.2	2718.9	2705.3	2678.2	2644.3	2607.0
32.5°	2744.9	2755.1	2779.9	2816.1	2820.6	2822.9	2818.3	2804.8	2779.9	2734.7
35°	2911.0	2922.3	2950.6	2979.9	2975.4	2979.9	2973.2	2968.6	2950.6	2898.6
37.5°	3114.4	3128.0	3157.4	3180.0	3168.7	3163.0	3164.1	3165.3	3155.1	3097.5
40°	3350.6	3368.7	3390.1	3413.9	3394.7	3377.7	3389.0	3398.1	3389.0	3330.2
42.5°	3593.5	3619.5	3642.1	3676.0	3660.2	3638.8	3654.6	3664.7	3645.5	3582.2
45°	3863.6	3888.5	3917.9	3968.7	3957.4	3934.8	3957.4	3959.7	3926.9	3852.3
47.5°	4142.8	4168.7	4212.8	4280.6	4276.1	4251.2	4280.6	4264.8	4223.0	4133.7
50°	4407.2	4443.3	4511.1	4606.1	4615.1	4584.6	4624.2	4593.6	4523.6	4411.7
52.5°	4655.8	4694.2	4801.6	4930.4	4963.2	4923.6	4976.7	4923.6	4818.5	4675.0
55°	4916.8	4959.8	5087.5	5255.8	5321.4	5292.0	5341.7	5261.5	5112.3	4938.3
57.5°	5224.2	5250.2	5402.8	5602.8	5713.5	5720.3	5742.9	5607.3	5426.5	5228.7
60°	5557.6	5593.7	5759.8	5999.4	6174.6	6231.1	6207.3	6006.2	5796.0	5568.9
62.5°	5984.7	6024.3	6223.2	6510.2	6787.1	6927.2	6834.5	6543.0	6283.1	6010.7
65°	6338.4	6382.5	6741.9	7253.8	7757.8	8039.2	7806.4	7269.6	6801.8	6417.5
67.5°	6081.9	6136.2	6700.0	7640.2	8893.5	9733.1	8936.4	7755.5	6839.0	6318.1
70°	5315.7	5366.6	6024.3	7173.5	9213.3	11053.0	9405.4	7384.9	6045.8	5462.6
72.5°	3529.1	3693.0	4358.6	5737.2	8226.7	10228.1	8308.1	5620.9	4043.3	3521.2
75°	1170.7	1301.8	1756.1	2974.3	5510.1	7649.3	5245.7	2631.9	1391.1	1001.2
77.5°	294.9	340.1	469.0	850.9	2197.9	4355.2	1978.7	695.0	378.6	264.4
80°	143.5	158.2	226.0	283.6	550.3	1384.3	516.4	266.7	178.5	137.9
82.5°	79.1	80.2	127.7	160.5	204.5	358.2	212.4	155.9	102.8	83.6
85°	48.6	47.5	67.8	85.9	85.9	127.7	101.7	85.9	58.8	52.0
87.5°	19.2	19.2	24.9	27.1	23.7	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°
2156.1
2167.4
2184.4
2204.7
2223.9
2243.1
2273.7
2310.9
2353.9
2396.8
2445.4
2512.1
2607.0
2735.8
2898.6
3097.5
3330.2
3586.8
3860.2
4128.1
4409.4
4661.4
4914.6
5201.6
5532.7
5963.3
6354.3
6240.1
5384.7
3407.1
947.0
236.2
126.6
83.6
54.2
22.6
0.0

OF REPORT)