

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: P950773

Luminaire Tested: **GALN-SB5A-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950773  
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-SB5A-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

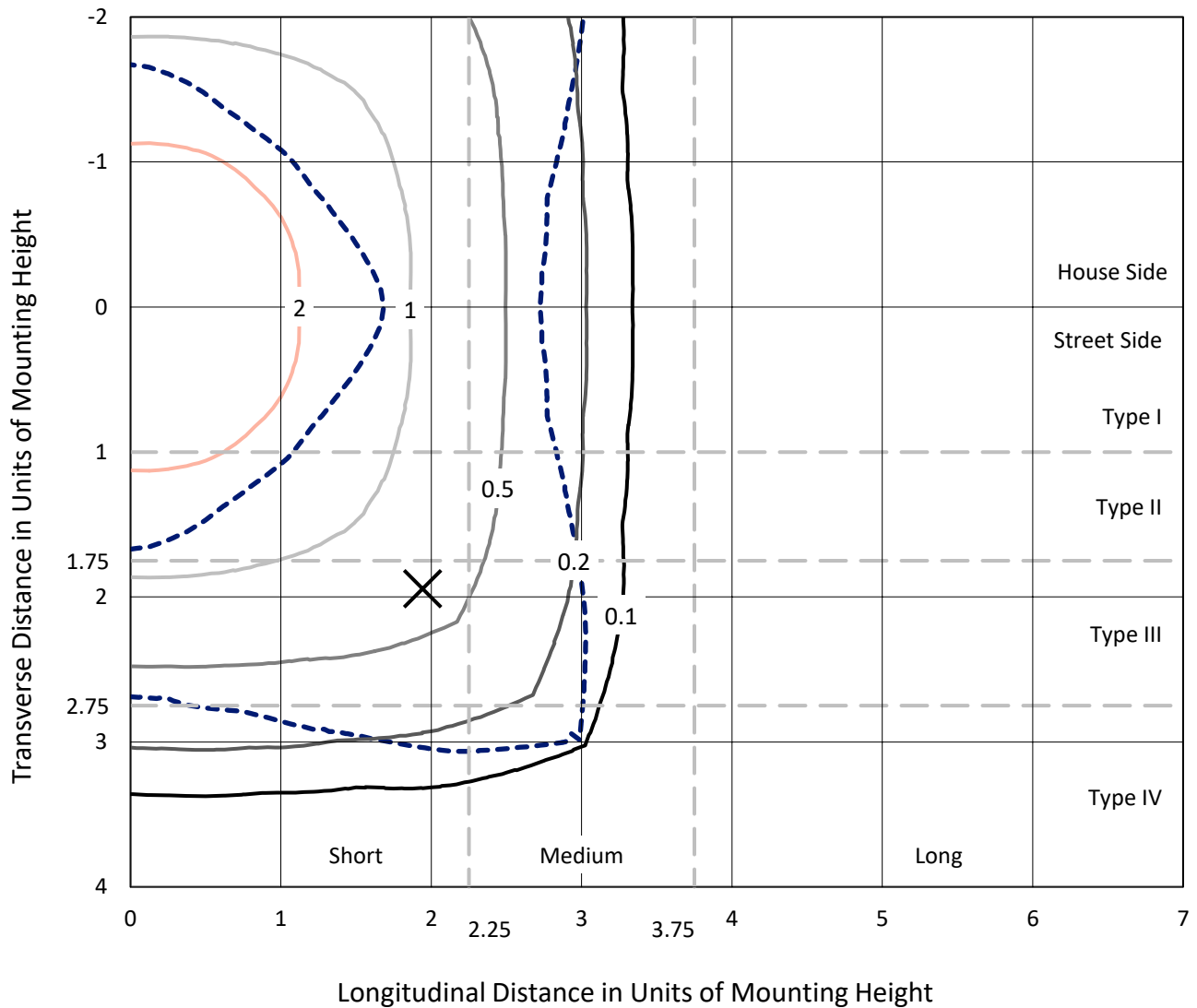
Lumens per Lamp: N/A  
Luminaire Lumens: 22699 lumens  
Efficiency: N/A  
Efficacy: 160.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P950773  
 CATALOG NUMBER: GALN-SB5A-850-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

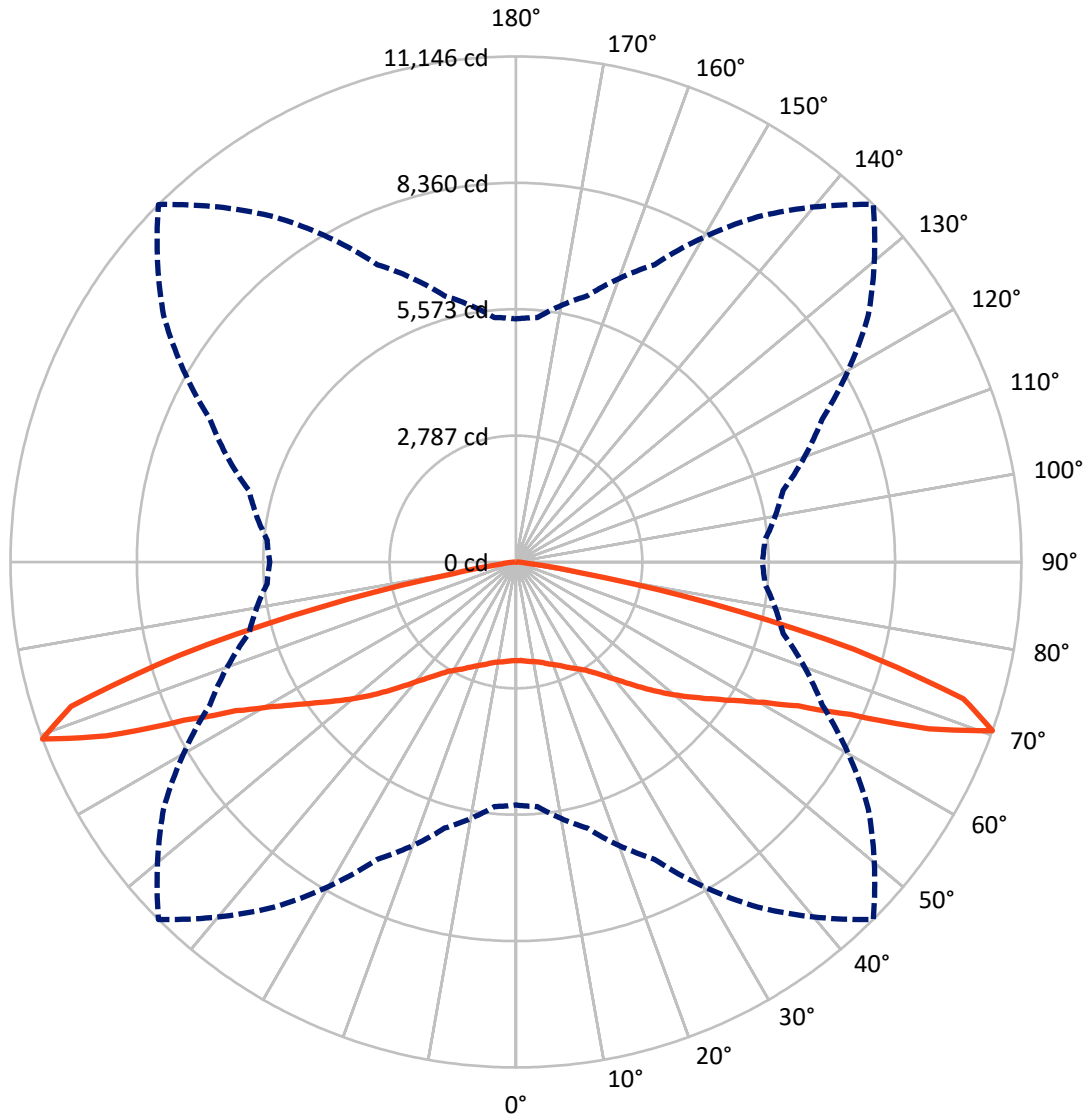
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P950773  
CATALOG NUMBER: GALN-SB5A-850-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P950773

CATALOG NUMBER: GALN-SB5A-850-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11349.5	0.0	11349.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11349.5	0.0	11349.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22699.0	0.0	22699.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	0.9
10°-20°	655.0	2.9
20°-30°	1170.6	5.2
30°-40°	1897.5	8.4
40°-50°	3090.8	13.6
50°-60°	4712.4	20.8
60°-70°	7010.5	30.9
70°-80°	3820.9	16.8
80°-90°	130.1	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°	22699.0	100.0
0°-180°	22699.0	100.0



REPORT NUMBER: P950773

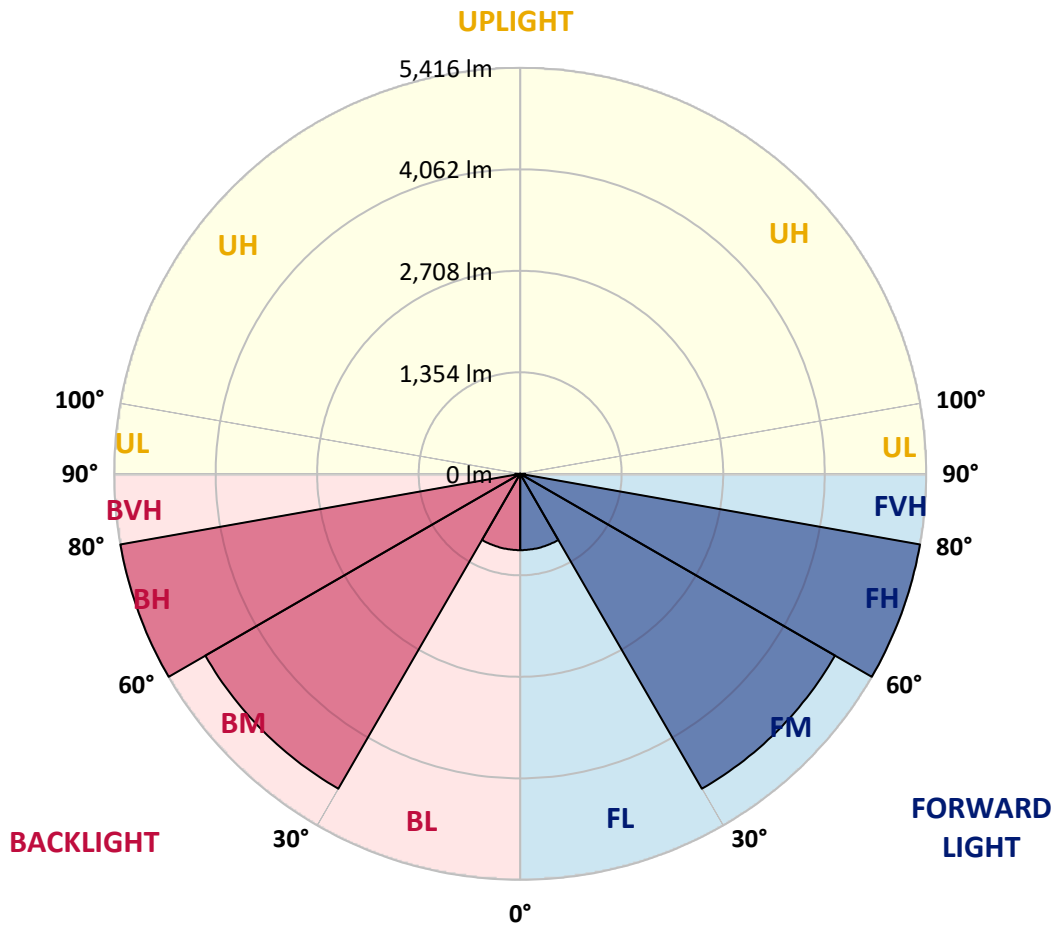
CATALOG NUMBER: GALN-SB5A-850-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.4	4.5			
FM (30°-60°)	4850.3	21.4			
FH (60°-80°)	5415.7	23.9			G3/7500
FVH (80°-90°)	65.1	0.3			G1/100
BL (0°-30°)	1018.4	4.5	B3/2500		
BM (30°-60°)	4850.3	21.4	B3/5000		
BH (60°-80°)	5415.7	23.9	B5		G3/7500
BVH (80°-90°)	65.1	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: P950773

CATALOG NUMBER: GALN-SB5A-850-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3
2.5°	2184.6	2186.9	2182.3	2180.0	2177.7	2174.3	2175.5	2181.2	2185.7	2184.6
5°	2202.8	2205.1	2201.7	2200.5	2196.0	2194.8	2194.8	2200.5	2204.0	2201.7
7.5°	2223.3	2226.8	2221.1	2219.9	2217.6	2215.4	2214.2	2219.9	2223.3	2223.3
10°	2242.7	2246.1	2241.6	2238.1	2235.9	2235.9	2233.6	2238.1	2243.8	2242.7
12.5°	2263.2	2265.5	2260.9	2258.7	2258.7	2262.1	2258.7	2260.9	2265.5	2263.2
15°	2288.3	2289.4	2288.3	2291.7	2297.4	2308.8	2298.5	2296.3	2298.5	2292.8
17.5°	2322.5	2324.8	2329.3	2337.3	2345.3	2365.8	2347.5	2341.8	2341.8	2330.5
20°	2364.6	2368.1	2374.9	2388.6	2398.8	2418.2	2400.0	2392.0	2388.6	2373.8
22.5°	2409.1	2414.8	2425.0	2443.3	2461.5	2479.7	2461.5	2447.8	2437.6	2418.2
25°	2460.4	2467.2	2483.2	2512.8	2537.9	2564.1	2542.4	2515.1	2494.6	2467.2
27.5°	2533.3	2541.3	2560.6	2597.1	2629.0	2651.8	2631.3	2596.0	2567.5	2534.4
30°	2635.9	2643.8	2666.6	2705.4	2727.0	2741.8	2728.2	2700.8	2666.6	2629.0
32.5°	2768.1	2778.3	2803.4	2839.8	2844.4	2846.7	2842.1	2828.5	2803.4	2757.8
35°	2935.6	2947.0	2975.5	3005.1	3000.5	3005.1	2998.2	2993.7	2975.5	2923.0
37.5°	3140.7	3154.4	3184.0	3206.8	3195.4	3189.7	3190.8	3192.0	3181.7	3123.6
40°	3378.9	3397.1	3418.8	3442.7	3423.3	3406.2	3417.6	3426.7	3417.6	3358.4
42.5°	3623.9	3650.1	3672.9	3707.1	3691.1	3669.5	3685.4	3695.7	3676.3	3612.5
45°	3896.2	3921.3	3950.9	4002.2	3990.8	3968.0	3990.8	3993.1	3960.1	3884.8
47.5°	4177.7	4203.9	4248.4	4316.8	4312.2	4287.1	4316.8	4300.8	4258.6	4168.6
50°	4444.4	4480.9	4549.2	4645.0	4654.1	4623.3	4663.2	4632.4	4561.8	4448.9
52.5°	4695.1	4733.8	4842.1	4972.0	5005.1	4965.2	5018.7	4965.2	4859.2	4714.5
55°	4958.3	5001.6	5130.4	5300.2	5366.3	5336.7	5386.8	5305.9	5155.5	4980.0
57.5°	5268.3	5294.5	5448.4	5650.1	5761.7	5768.6	5791.4	5654.6	5472.3	5272.9
60°	5604.5	5640.9	5808.5	6050.1	6226.7	6283.7	6259.7	6056.9	5844.9	5615.9
62.5°	6035.2	6075.1	6275.7	6565.2	6844.4	6985.7	6892.2	6598.2	6336.1	6061.5
65°	6391.9	6436.4	6798.8	7315.0	7823.3	8107.0	7872.3	7331.0	6859.2	6471.7
67.5°	6133.2	6187.9	6756.6	7704.7	8968.5	9815.3	9011.8	7821.0	6896.8	6371.4
70°	5360.6	5411.9	6075.1	7234.1	9291.0	11146.3	9484.8	7447.2	6096.8	5508.8
72.5°	3558.9	3724.2	4395.4	5785.7	8296.2	10314.4	8378.2	5668.3	4077.4	3550.9
75°	1180.6	1312.8	1770.9	2999.4	5556.6	7713.9	5290.0	2654.1	1402.8	1009.7
77.5°	297.4	343.0	472.9	858.1	2216.5	4392.0	1995.4	700.8	381.8	266.7
80°	144.7	159.5	227.9	286.0	555.0	1396.0	520.8	268.9	180.1	139.0
82.5°	79.8	80.9	128.8	161.8	206.3	361.2	214.2	157.3	103.7	84.3
85°	49.0	47.9	68.4	86.6	86.6	128.8	102.6	86.6	59.3	52.4
87.5°	19.4	19.4	25.1	27.4	23.9	33.0	26.2	28.5	22.8	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2174.3
2185.7
2202.8
2223.3
2242.7
2262.1
2292.8
2330.5
2373.8
2417.1
2466.1
2533.3
2629.0
2758.9
2923.0
3123.6
3358.4
3617.0
3892.8
4162.9
4446.7
4700.8
4956.1
5245.5
5579.4
6013.6
6407.9
6292.8
5430.1
3435.9
955.0
238.2
127.6
84.3
54.7
22.8
0.0

OF REPORT)