

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: P942900

Luminaire Tested: **GALN-SB7A-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

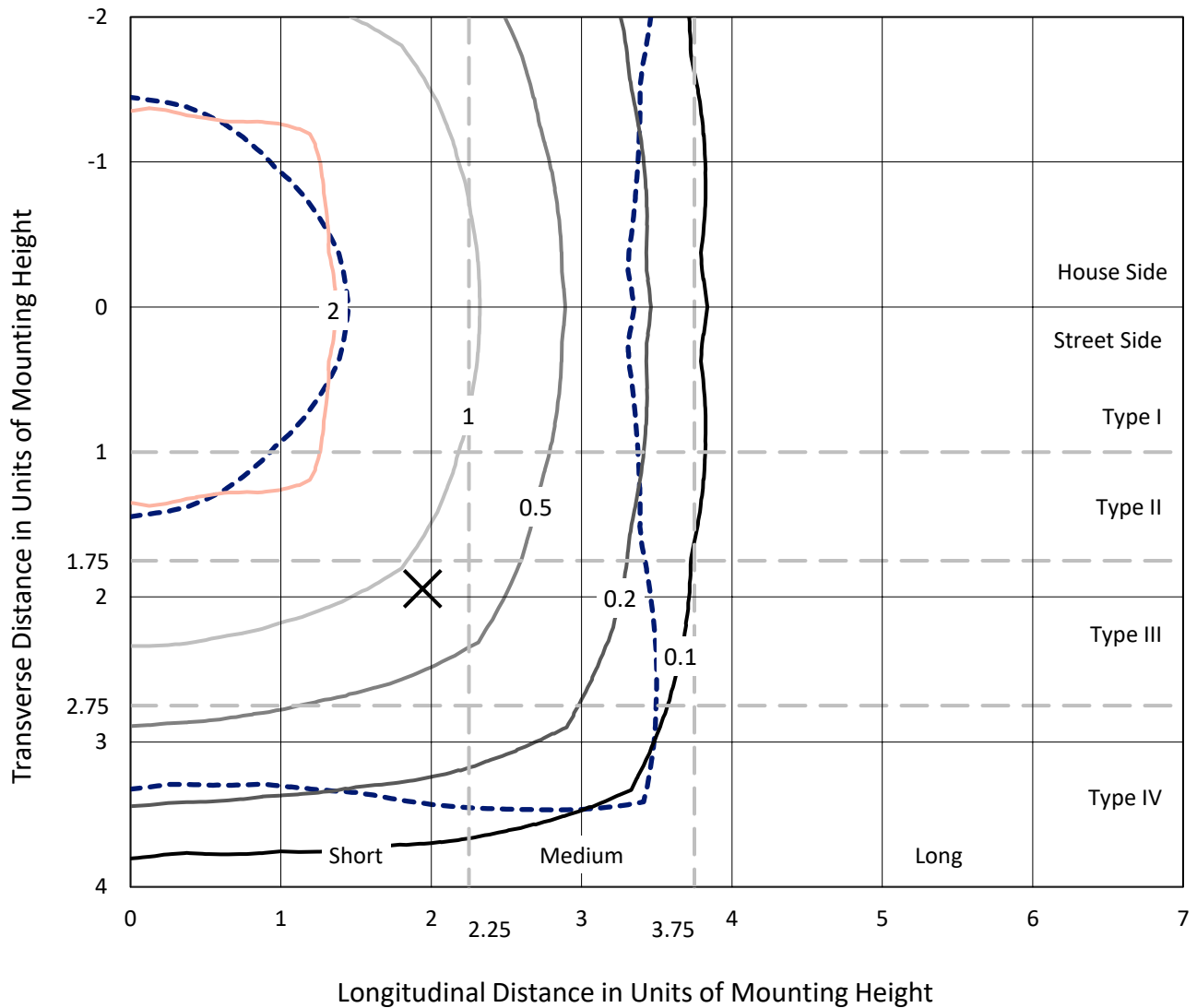
Lumens per Lamp: N/A  
Luminaire Lumens: 30865 lumens  
Efficiency: N/A  
Efficacy: 155.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

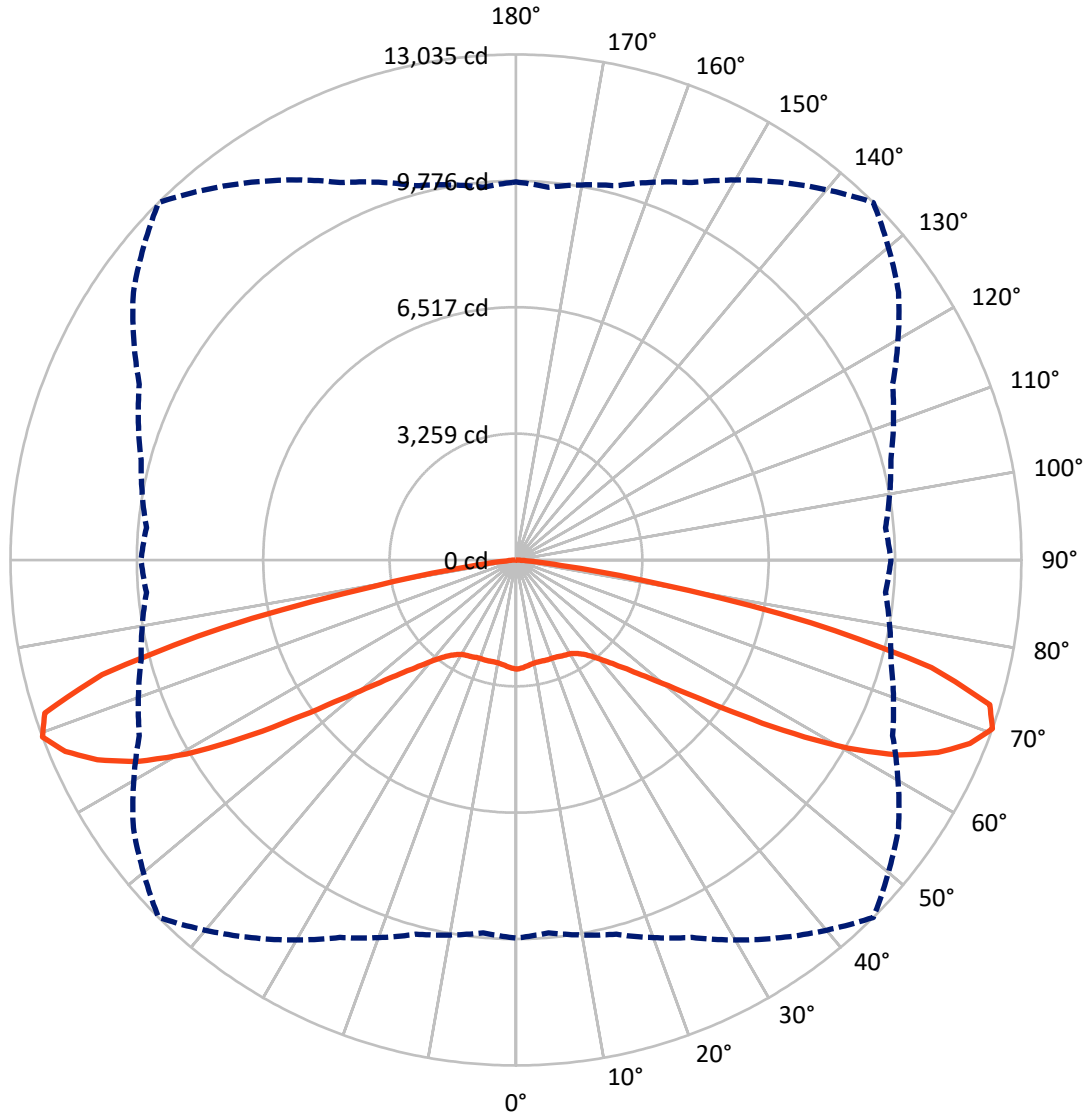
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15432.5	0.0	15432.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15432.5	0.0	15432.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30865.0	0.0	30865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	0.8
10°-20°	769.0	2.5
20°-30°	1279.8	4.1
30°-40°	1935.4	6.3
40°-50°	3216.2	10.4
50°-60°	6068.8	19.7
60°-70°	10247.5	33.2
70°-80°	6733.6	21.8
80°-90°	352.8	1.1
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°	30865.0	100.0
0°-180°	30865.0	100.0

**Coefficient of Utilization**



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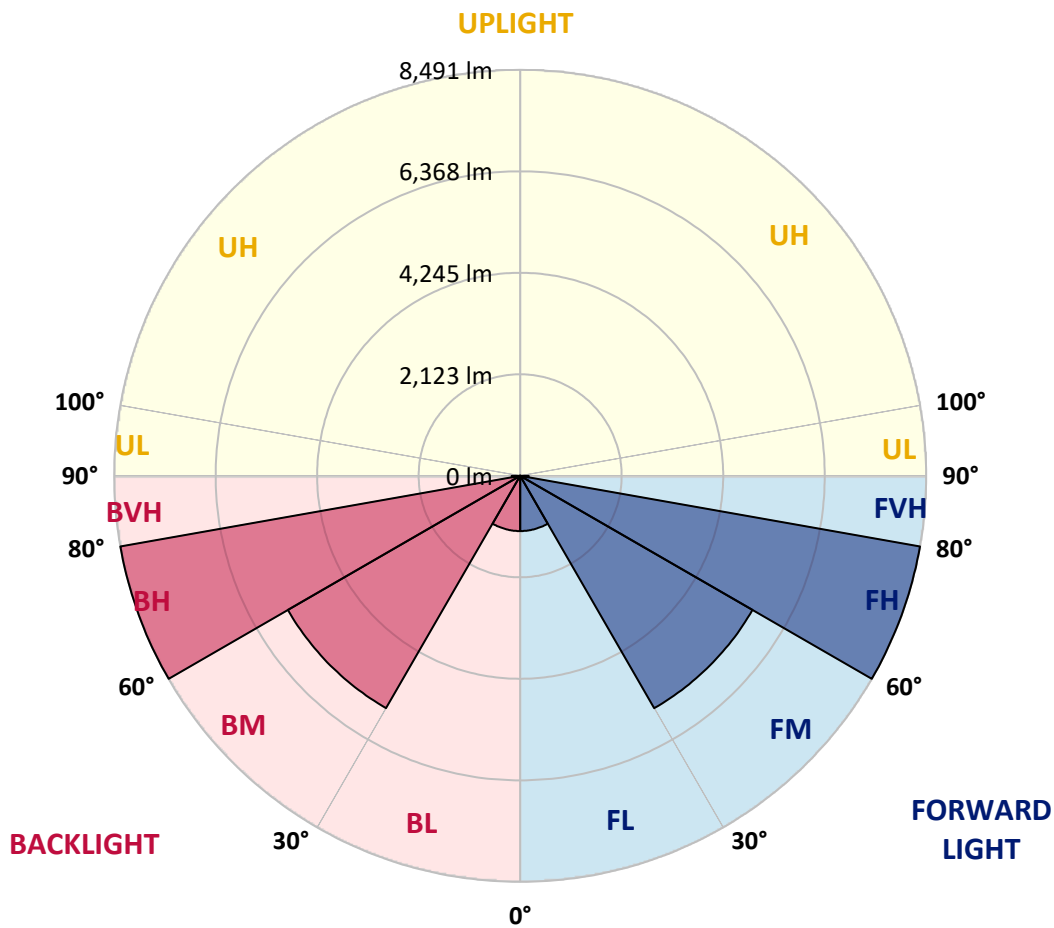
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1155.4	3.7			
FM (30°-60°)	5610.2	18.2			
FH (60°-80°)	8490.5	27.5			G4/12000
FVH (80°-90°)	176.4	0.6			G2/225
BL (0°-30°)	1155.4	3.7	B3/2500		
BM (30°-60°)	5610.2	18.2	B4/8500		
BH (60°-80°)	8490.5	27.5	B5		G4/12000
BVH (80°-90°)	176.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2815.5	2815.5	2815.5	2815.5	2815.5	2815.5	2815.5	2815.5	2815.5	2815.5
2.5°	2797.9	2805.9	2802.7	2796.3	2796.3	2791.4	2796.3	2799.5	2804.3	2807.5
5°	2761.0	2767.4	2765.8	2761.0	2762.6	2757.8	2761.0	2765.8	2769.0	2770.6
7.5°	2728.9	2735.3	2732.1	2724.1	2724.1	2719.3	2720.9	2725.7	2730.5	2732.1
10°	2720.9	2727.3	2717.6	2704.8	2700.0	2693.6	2695.2	2700.0	2709.6	2714.4
12.5°	2724.1	2728.9	2719.3	2700.0	2695.2	2688.8	2688.8	2693.6	2706.4	2712.8
15°	2733.7	2738.5	2724.1	2703.2	2698.4	2693.6	2692.0	2698.4	2712.8	2724.1
17.5°	2751.3	2756.2	2733.7	2704.8	2698.4	2700.0	2698.4	2703.2	2725.7	2746.5
20°	2767.4	2770.6	2740.1	2704.8	2698.4	2700.0	2698.4	2708.0	2736.9	2765.8
22.5°	2772.2	2775.4	2746.5	2716.0	2711.2	2712.8	2711.2	2720.9	2748.1	2777.0
25°	2773.8	2778.6	2756.2	2732.1	2740.1	2743.3	2740.1	2741.7	2762.6	2788.2
27.5°	2797.9	2804.3	2783.4	2762.6	2767.4	2765.8	2770.6	2775.4	2791.4	2817.1
30°	2847.6	2852.4	2834.8	2813.9	2810.7	2799.5	2813.9	2829.9	2847.6	2870.1
32.5°	2929.4	2939.0	2916.6	2894.1	2879.7	2873.3	2884.5	2911.8	2935.8	2959.9
35°	3065.8	3072.2	3051.3	3009.6	2984.0	2984.0	2993.6	3028.9	3067.4	3097.9
37.5°	3258.3	3266.3	3229.4	3179.7	3141.2	3141.2	3154.0	3190.9	3248.7	3292.0
40°	3492.5	3503.7	3457.2	3405.9	3369.0	3362.6	3378.6	3420.3	3474.9	3529.4
42.5°	3774.9	3787.7	3726.7	3681.8	3652.9	3652.9	3661.0	3699.5	3749.2	3816.6
45°	4135.8	4158.3	4074.9	4029.9	4002.7	4009.1	4013.9	4047.6	4092.5	4169.5
47.5°	4565.8	4588.2	4500.0	4453.5	4448.7	4479.1	4459.9	4484.0	4508.0	4596.3
50°	5053.5	5092.0	5031.0	5027.8	5037.4	5093.6	5048.7	5061.5	5034.2	5090.4
52.5°	5650.3	5706.4	5695.2	5714.4	5821.9	5937.4	5834.8	5789.8	5687.2	5704.8
55°	6373.8	6458.8	6474.9	6590.4	6834.2	7070.1	6851.9	6670.6	6452.4	6412.3
57.5°	7196.8	7264.2	7341.2	7577.0	8032.6	8451.3	8032.6	7631.6	7288.2	7206.4
60°	8082.4	8165.8	8239.6	8587.7	9264.7	9853.5	9251.9	8615.0	8161.0	8050.3
62.5°	9033.7	9141.2	9192.5	9579.1	10368.5	11071.1	10379.7	9608.0	9104.3	8985.6
65°	9946.5	10034.8	10092.5	10504.8	11258.8	11963.1	11310.2	10549.7	10031.6	9875.9
67.5°	10371.7	10419.8	10561.0	11027.8	11823.5	12627.3	11958.3	11077.5	10498.4	10225.7
70°	9749.2	9651.3	9991.4	10739.0	11890.9	13034.8	12044.9	10716.6	10007.5	9564.7
72.5°	7533.7	7365.2	7955.6	9234.2	11120.9	12774.9	11197.9	9306.4	8323.0	7424.6
75°	4098.9	3908.0	4723.0	6340.1	8868.5	11072.7	9072.2	6521.4	5258.8	4068.5
77.5°	1156.7	1084.5	1742.2	3067.4	5334.2	7774.3	5539.6	3134.8	2066.3	1225.7
80°	354.5	343.3	465.2	924.1	2265.2	3723.5	2177.0	935.3	592.0	373.8
82.5°	210.2	192.5	231.0	336.9	577.5	1169.5	561.5	351.3	282.4	189.3
85°	120.3	112.3	136.4	163.6	194.1	248.7	162.0	166.8	150.8	101.1
87.5°	49.7	44.9	52.9	51.3	44.9	57.8	43.3	51.3	61.0	40.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2815.5
2805.9
2770.6
2732.1
2714.4
2714.4
2725.7
2746.5
2767.4
2777.0
2786.6
2810.7
2865.2
2950.3
3086.6
3275.9
3511.8
3811.8
4166.3
4570.6
5056.7
5645.5
6349.7
7148.7
7954.0
8889.3
9798.9
10228.9
9670.6
7647.6
4333.2
1362.0
394.7
205.3
105.9
36.9
0.0

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