

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: P942903

Luminaire Tested: **GALN-SB7A-850-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
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-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30187 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

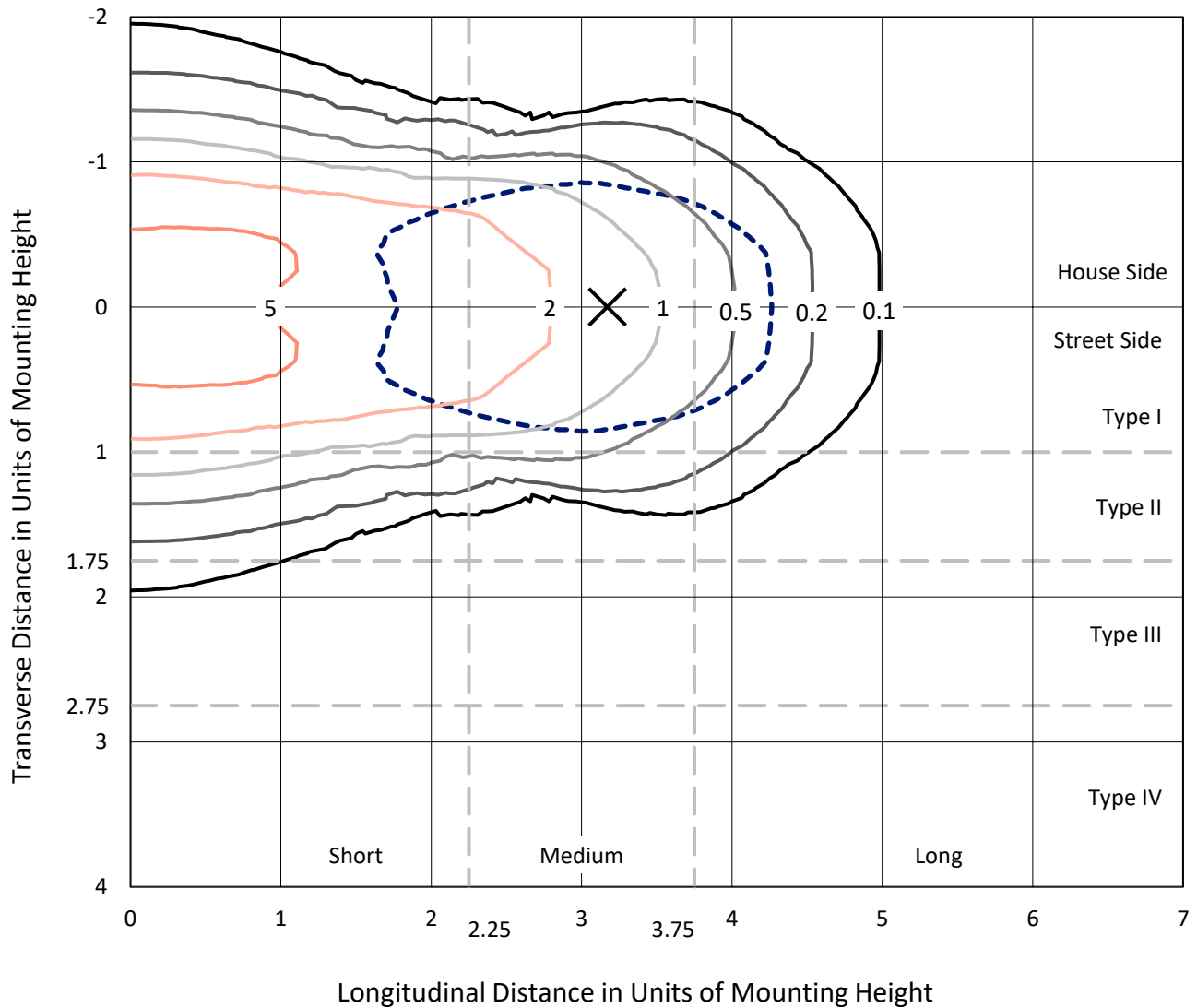
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

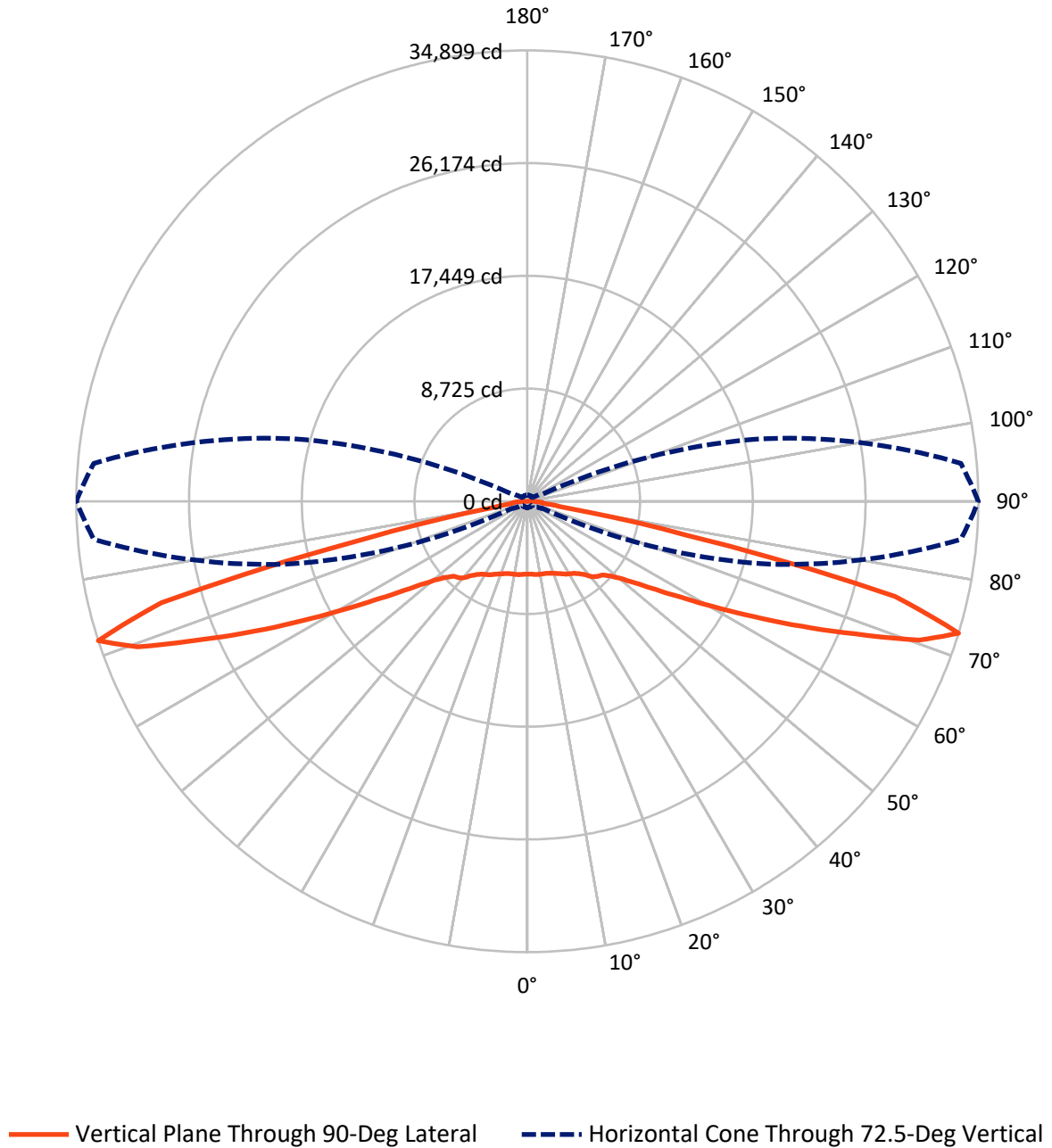
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15093.5	0.0	15093.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15093.5	0.0	15093.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30187.0	0.0	30187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.9	1.8
10°-20°	1672.3	5.5
20°-30°	2788.5	9.2
30°-40°	3835.0	12.7
40°-50°	4683.6	15.5
50°-60°	5417.0	17.9
60°-70°	6458.9	21.4
70°-80°	4507.9	14.9
80°-90°	276.9	0.9
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°	30187.0	100.0
0°-180°	30187.0	100.0

**Coefficient of Utilization**



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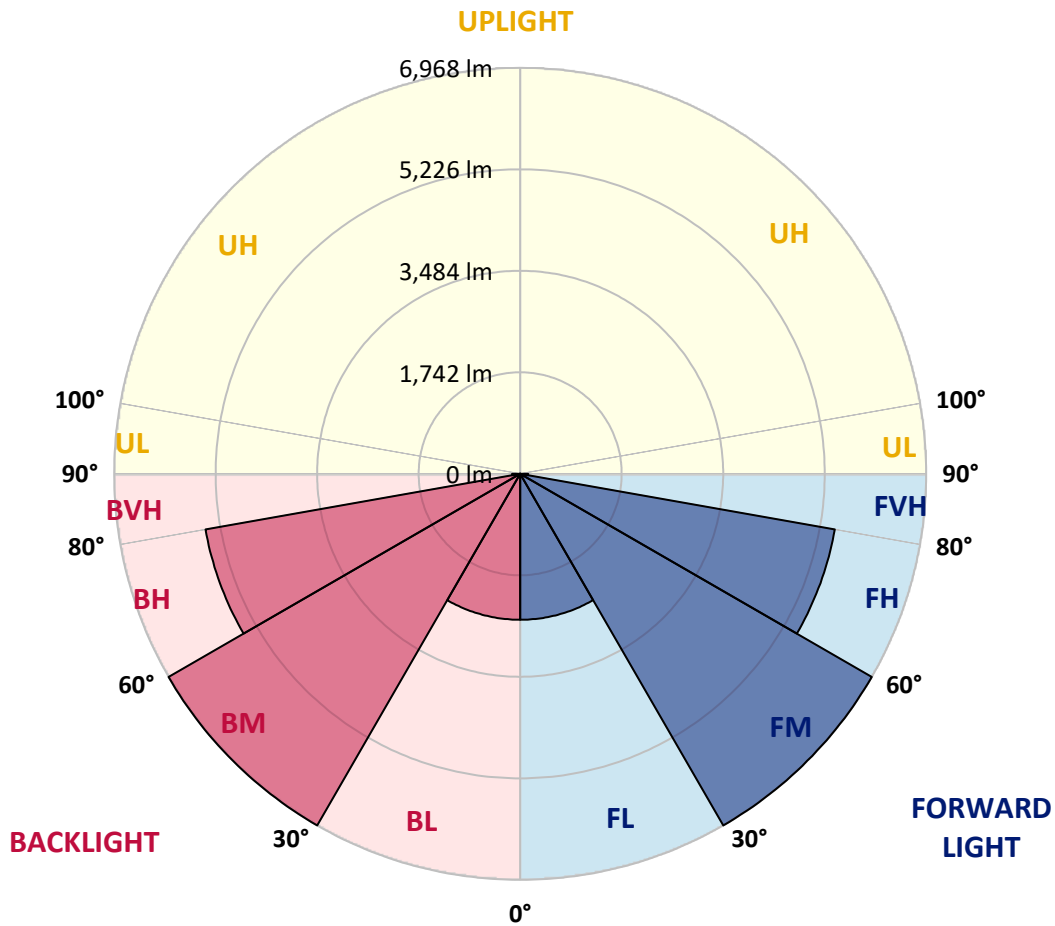
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2503.9	8.3			
FM (30°-60°)	6967.8	23.1			
FH (60°-80°)	5483.4	18.2			G3/7500
FVH (80°-90°)	138.4	0.5			G2/225
BL (0°-30°)	2503.9	8.3	B4/5000		
BM (30°-60°)	6967.8	23.1	B4/8500		
BH (60°-80°)	5483.4	18.2	B5		G5
BVH (80°-90°)	138.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8
2.5°	5645.6	5652.0	5652.0	5647.2	5658.4	5648.8	5648.8	5644.0	5648.8	5644.0
5°	5674.5	5682.5	5685.7	5684.1	5698.5	5690.5	5690.5	5684.1	5685.7	5680.9
7.5°	5729.0	5740.2	5746.6	5754.7	5775.5	5765.9	5759.5	5740.2	5732.2	5719.4
10°	5746.6	5759.5	5780.3	5822.0	5870.2	5871.8	5852.5	5804.4	5767.5	5738.6
12.5°	5692.1	5709.7	5753.1	5838.1	5945.6	5988.9	5958.4	5878.2	5806.0	5754.7
15°	5623.1	5642.4	5708.1	5836.5	5995.3	6096.4	6093.2	5987.3	5871.8	5791.6
17.5°	5515.6	5534.9	5629.5	5809.2	6033.8	6200.7	6245.6	6136.5	5974.5	5867.0
20°	5321.5	5339.1	5470.7	5722.6	6046.7	6311.4	6428.5	6332.2	6130.1	5984.1
22.5°	5069.6	5096.9	5250.9	5573.4	6016.2	6426.9	6637.0	6571.3	6311.4	6109.2
25°	4800.1	4829.0	5008.7	5390.5	5937.6	6510.3	6884.1	6842.4	6516.7	6264.8
27.5°	4567.5	4598.0	4793.7	5209.2	5815.6	6542.4	7128.0	7148.8	6765.4	6436.5
30°	4384.6	4413.5	4622.0	5063.2	5658.4	6510.3	7341.3	7485.7	7018.9	6585.7
32.5°	4184.0	4220.9	4440.7	4885.1	5472.3	6433.3	7527.4	7849.9	7312.5	6746.1
35°	3930.6	3964.3	4195.3	4641.3	5228.5	6309.8	7683.0	8254.2	7732.8	6990.0
37.5°	3622.5	3654.6	3884.0	4336.5	4986.2	6136.5	7801.8	8709.8	8233.3	7341.3
40°	3312.9	3343.4	3558.4	3996.3	4695.8	5915.1	7843.5	9155.8	8807.7	7824.2
42.5°	3028.9	3056.2	3253.5	3661.0	4370.1	5632.7	7788.9	9544.0	9322.7	8161.1
45°	2767.4	2791.5	2966.4	3346.6	4031.6	5289.4	7625.3	9961.2	9935.5	8401.8
47.5°	2469.0	2493.1	2674.4	3041.8	3693.1	4886.7	7347.7	10371.9	10787.4	8947.2
50°	2104.9	2125.7	2311.8	2690.4	3341.8	4458.4	6962.7	10694.3	11862.3	9773.5
52.5°	1673.3	1695.8	1877.0	2255.7	2924.7	3997.9	6455.7	10904.5	13104.0	10979.9
55°	1244.9	1261.0	1418.2	1758.3	2408.1	3473.3	5820.4	10963.9	14512.6	12629.1
57.5°	903.2	912.9	1013.9	1267.4	1825.7	2817.2	5048.8	10809.9	16189.1	14743.6
60°	731.6	734.8	765.3	877.6	1269.0	2076.0	4116.7	10280.4	18008.4	17469.3
62.5°	664.2	664.2	672.2	702.7	858.3	1370.1	2988.8	9183.1	19959.2	20913.8
65°	617.7	617.7	620.9	635.3	677.0	872.7	1886.7	7395.9	21603.7	24948.6
67.5°	575.9	577.6	575.9	580.8	604.8	644.9	1094.1	5108.1	22489.2	29129.5
70°	532.6	535.8	527.8	527.8	547.1	548.7	685.0	2801.1	21754.5	32633.3
72.5°	481.3	486.1	473.3	470.1	484.5	478.1	515.0	1344.4	18677.4	33679.3
75°	436.4	442.8	413.9	405.9	405.9	401.1	418.7	689.9	12122.2	27473.8
77.5°	396.3	409.1	362.6	336.9	330.5	316.0	341.7	421.9	5302.2	12898.7
80°	327.3	344.9	298.4	267.9	256.7	240.6	269.5	295.2	1577.0	2995.2
82.5°	243.9	251.9	211.8	190.9	181.3	170.1	202.1	205.4	513.4	1060.4
85°	155.6	158.8	129.9	112.3	107.5	102.7	128.3	112.3	195.7	779.7
87.5°	54.5	62.6	49.7	44.9	48.1	40.1	59.4	33.7	54.5	550.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

5640.8  
5644.0  
5680.9  
5719.4  
5733.8  
5746.6  
5778.7  
5849.3  
5956.8  
6072.3  
6213.5  
6382.0  
6507.1  
6646.7  
6879.3  
7193.7  
7667.0  
7959.0  
8129.0  
8632.8  
9378.8  
10493.8  
12021.1  
13978.4  
16505.2  
19622.3  
23315.5  
27366.3  
32169.7  
34898.6  
29386.2  
12630.7  
2868.5  
1198.4  
1132.6  
681.8  
0.0

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