

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: P941033

Luminaire Tested: **GALN-SB4B-850-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941033  
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-SB4B-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21355 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

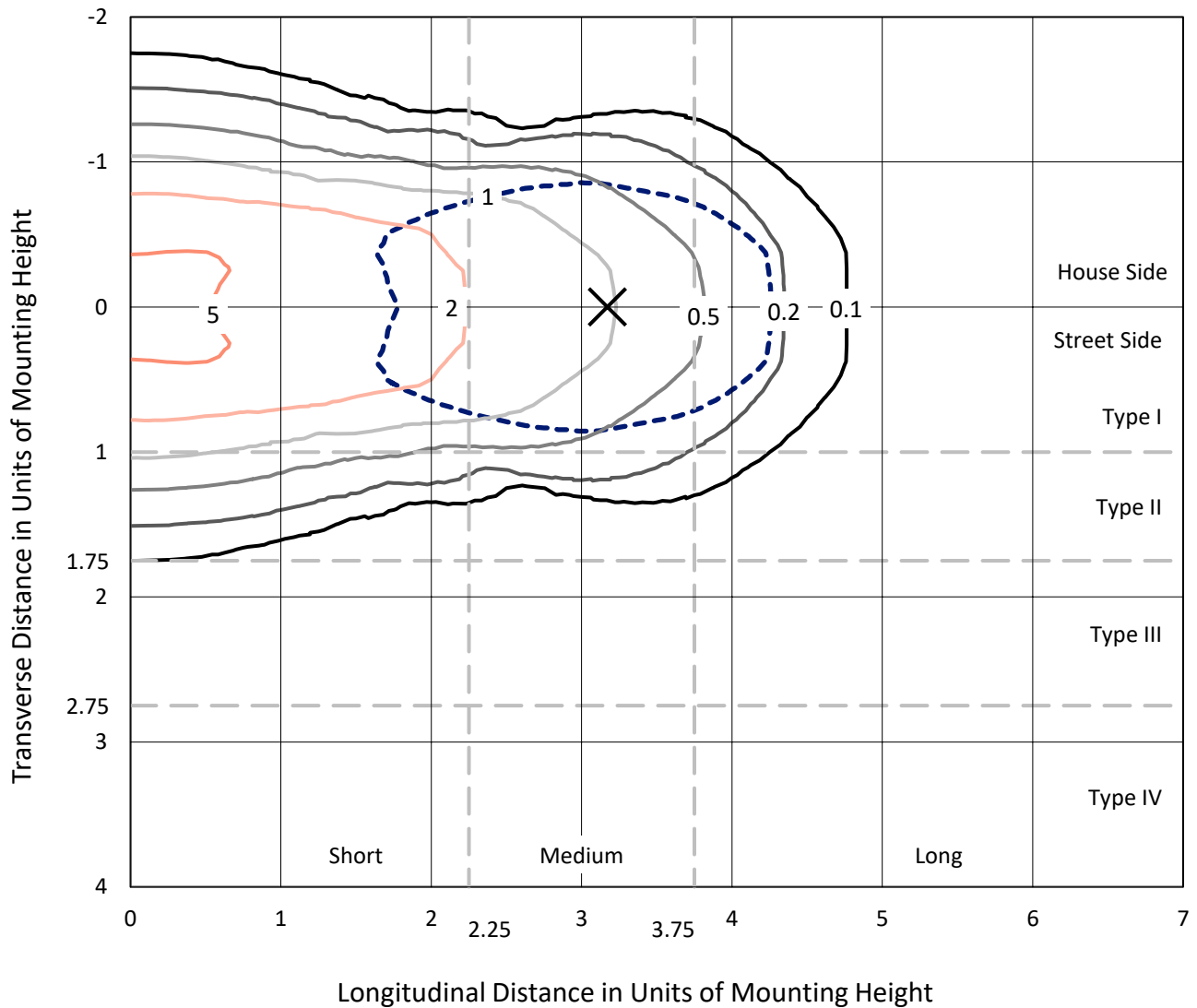
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

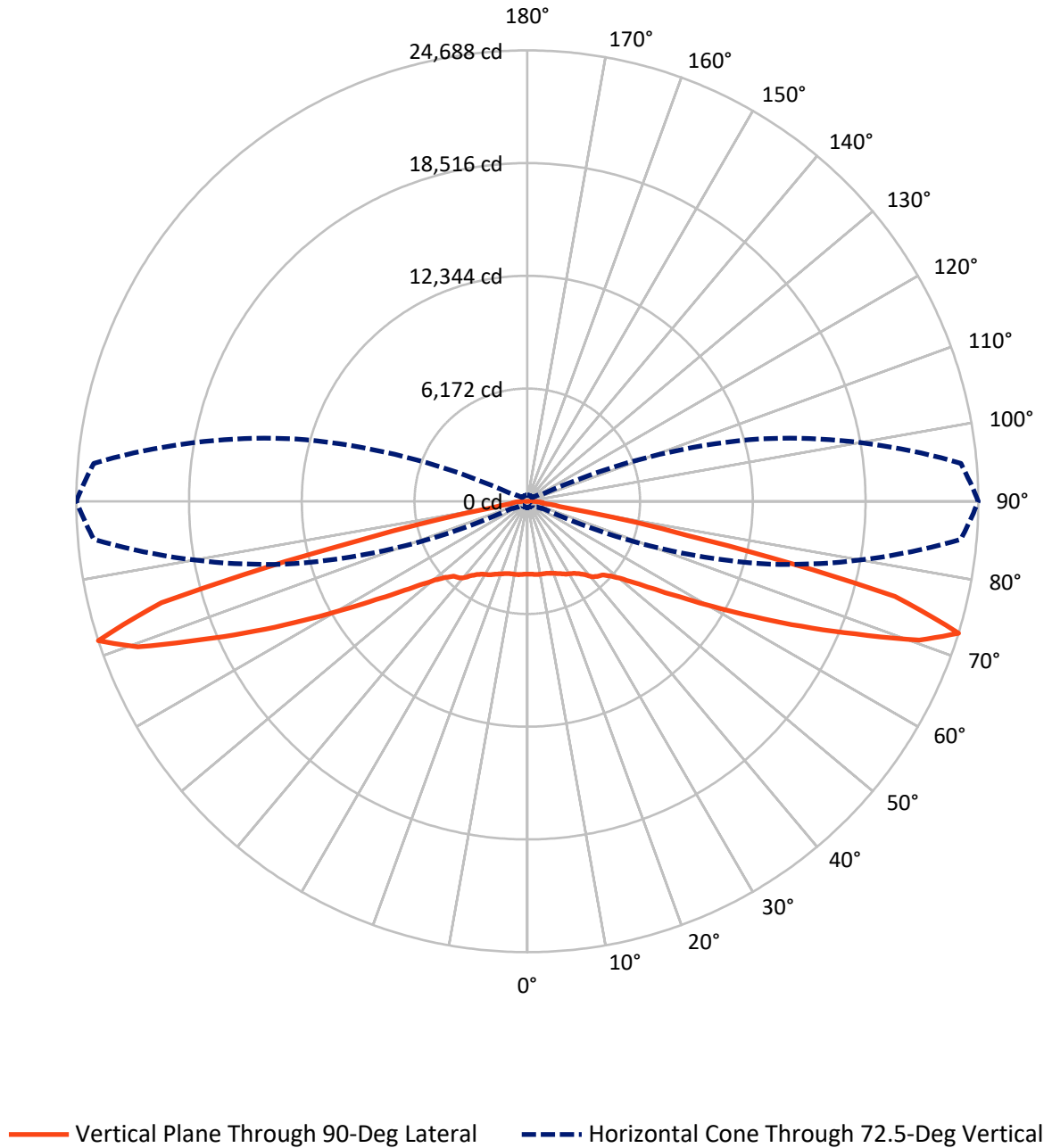
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	10677.5	0.0	10677.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10677.5	0.0	10677.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21355.0	0.0	21355.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.9	1.8
10°-20°	1183.0	5.5
20°-30°	1972.6	9.2
30°-40°	2713.0	12.7
40°-50°	3313.3	15.5
50°-60°	3832.1	17.9
60°-70°	4569.2	21.4
70°-80°	3189.0	14.9
80°-90°	195.9	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°	21355.0	100.0
0°-180°	21355.0	100.0



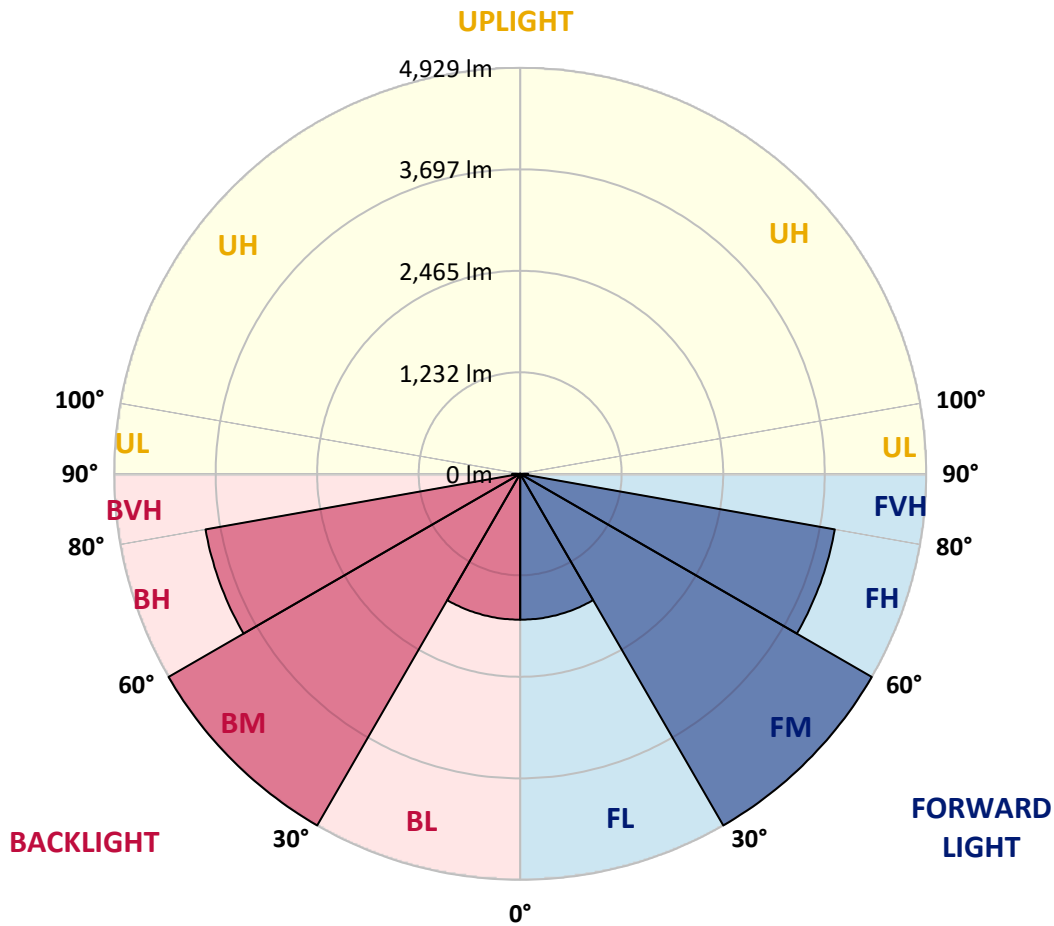
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.3	8.3			
FM (30°-60°)	4929.2	23.1			
FH (60°-80°)	3879.1	18.2			G2/5000
FVH (80°-90°)	97.9	0.5			G1/100
BL (0°-30°)	1771.3	8.3	B3/2500		
BM (30°-60°)	4929.2	23.1	B3/5000		
BH (60°-80°)	3879.1	18.2	B4/5000		G4/5000
BVH (80°-90°)	97.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3990.4	3990.4	3990.4	3990.4	3990.4	3990.4	3990.4	3990.4	3990.4	3990.4
2.5°	3993.8	3998.4	3998.4	3994.9	4002.9	3996.1	3996.1	3992.7	3996.1	3992.7
5°	4014.2	4019.9	4022.2	4021.1	4031.3	4025.6	4025.6	4021.1	4022.2	4018.8
7.5°	4052.8	4060.8	4065.3	4071.0	4085.7	4078.9	4074.4	4060.8	4055.1	4046.0
10°	4065.3	4074.4	4089.1	4118.7	4152.7	4153.8	4140.2	4106.2	4080.1	4059.6
12.5°	4026.7	4039.2	4069.9	4130.0	4206.0	4236.7	4215.1	4158.4	4107.3	4071.0
15°	3977.9	3991.5	4038.1	4128.9	4241.2	4312.7	4310.5	4235.6	4153.8	4097.1
17.5°	3901.9	3915.5	3982.5	4109.6	4268.5	4386.5	4418.3	4341.1	4226.5	4150.4
20°	3764.6	3777.0	3870.1	4048.3	4277.5	4464.8	4547.7	4479.6	4336.6	4233.3
22.5°	3586.4	3605.7	3714.6	3942.7	4256.0	4546.5	4695.2	4648.7	4464.8	4321.8
25°	3395.7	3416.1	3543.2	3813.4	4200.4	4605.5	4870.0	4840.5	4610.1	4431.9
27.5°	3231.1	3252.7	3391.2	3685.1	4114.1	4628.2	5042.5	5057.2	4786.0	4553.3
30°	3101.8	3122.2	3269.7	3581.8	4002.9	4605.5	5193.4	5295.6	4965.3	4658.9
32.5°	2959.9	2986.0	3141.5	3455.9	3871.2	4551.1	5325.1	5553.2	5173.0	4772.4
35°	2780.6	2804.4	2967.8	3283.3	3698.7	4463.7	5435.2	5839.2	5470.4	4944.9
37.5°	2562.7	2585.4	2747.7	3067.7	3527.4	4341.1	5519.2	6161.5	5824.5	5193.4
40°	2343.6	2365.2	2517.3	2827.1	3321.9	4184.5	5548.7	6477.0	6230.8	5535.0
42.5°	2142.7	2162.0	2301.6	2589.9	3091.5	3984.7	5510.1	6751.7	6595.1	5773.4
45°	1957.8	1974.8	2098.5	2367.5	2852.1	3741.9	5394.3	7046.8	7028.6	5943.6
47.5°	1746.7	1763.7	1891.9	2151.8	2612.6	3457.0	5198.0	7337.3	7631.3	6329.5
50°	1489.0	1503.8	1635.4	1903.3	2364.1	3154.0	4925.6	7565.4	8391.7	6914.0
52.5°	1183.7	1199.6	1327.9	1595.7	2069.0	2828.2	4567.0	7714.1	9270.1	7767.4
55°	880.7	892.1	1003.3	1243.9	1703.5	2457.1	4117.5	7756.1	10266.6	8934.2
57.5°	639.0	645.8	717.3	896.6	1291.5	1992.9	3571.6	7647.1	11452.6	10430.0
60°	517.5	519.8	541.4	620.8	897.7	1468.6	2912.2	7272.6	12739.6	12358.2
62.5°	469.9	469.9	475.5	497.1	607.2	969.2	2114.4	6496.3	14119.6	14794.9
65°	436.9	436.9	439.2	449.4	478.9	617.4	1334.7	5232.0	15282.9	17649.3
67.5°	407.4	408.6	407.4	410.8	427.9	456.2	774.0	3613.6	15909.4	20606.9
70°	376.8	379.1	373.4	373.4	387.0	388.1	484.6	1981.6	15389.6	23085.6
72.5°	340.5	343.9	334.8	332.5	342.7	338.2	364.3	951.1	13212.8	23825.5
75°	308.7	313.2	292.8	287.1	287.1	283.7	296.2	488.0	8575.5	19435.6
77.5°	280.3	289.4	256.5	238.3	233.8	223.6	241.7	298.5	3750.9	9124.8
80°	231.5	244.0	211.1	189.5	181.6	170.2	190.7	208.8	1115.6	2118.9
82.5°	172.5	178.2	149.8	135.1	128.2	120.3	143.0	145.3	363.2	750.2
85°	110.1	112.4	91.9	79.4	76.0	72.6	90.8	79.4	138.5	551.6
87.5°	38.6	44.3	35.2	31.8	34.0	28.4	42.0	23.8	38.6	389.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3990.4  
3992.7  
4018.8  
4046.0  
4056.2  
4065.3  
4088.0  
4137.9  
4214.0  
4295.7  
4395.6  
4514.7  
4603.3  
4702.0  
4866.6  
5089.0  
5423.8  
5630.4  
5750.7  
6107.0  
6634.8  
7423.6  
8504.0  
9888.6  
11676.1  
13881.3  
16493.9  
19359.6  
22757.6  
24688.1  
20788.5  
8935.3  
2029.3  
847.8  
801.3  
482.3  
0.0

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