

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: P941583

Luminaire Tested: **GALN-SB5A-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941583
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-SB5A-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16244 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

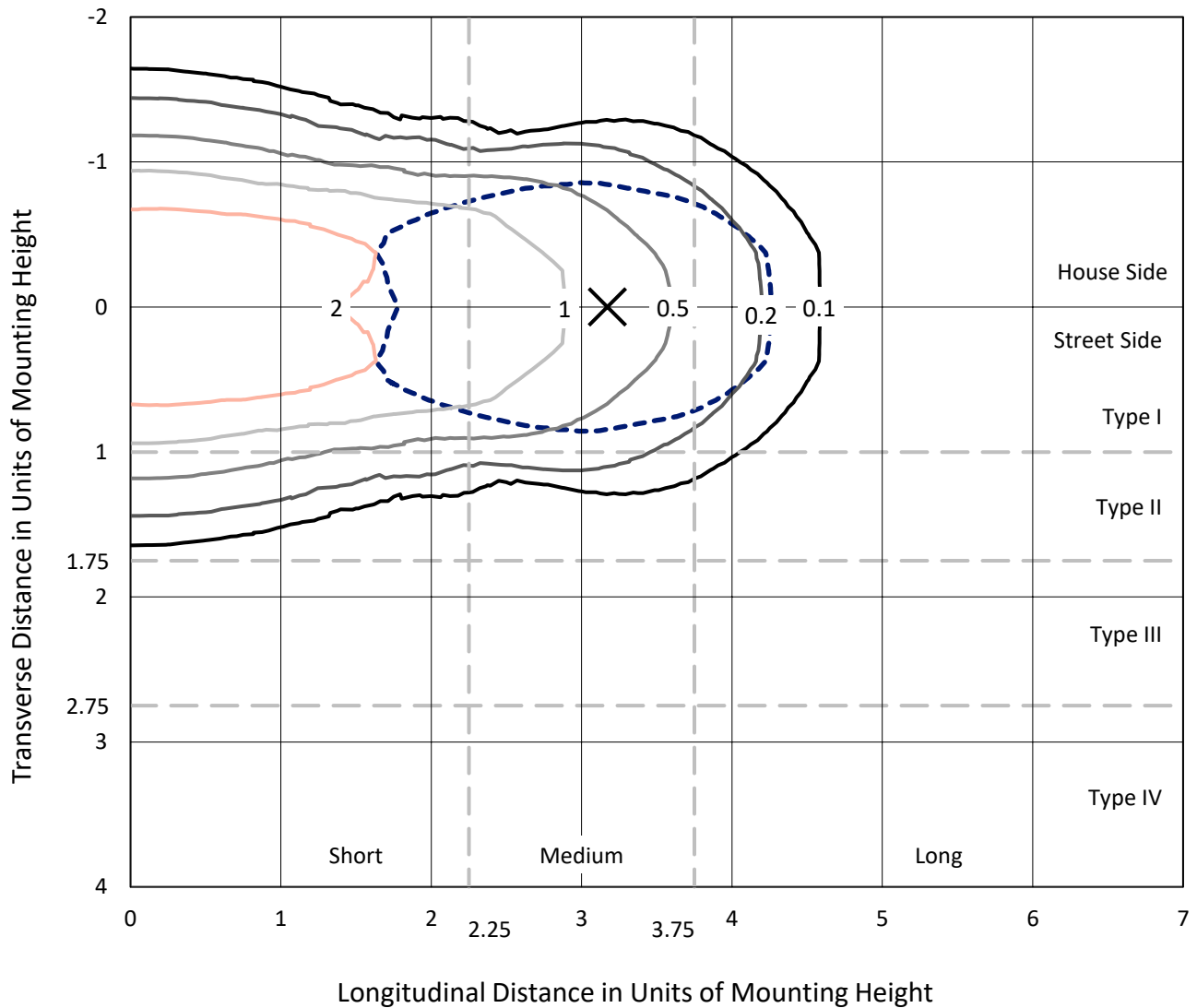
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941583
 CATALOG NUMBER: GALN-SB5A-940-U-T1

Iso-Footcandle Lines of Horizontal Illumination

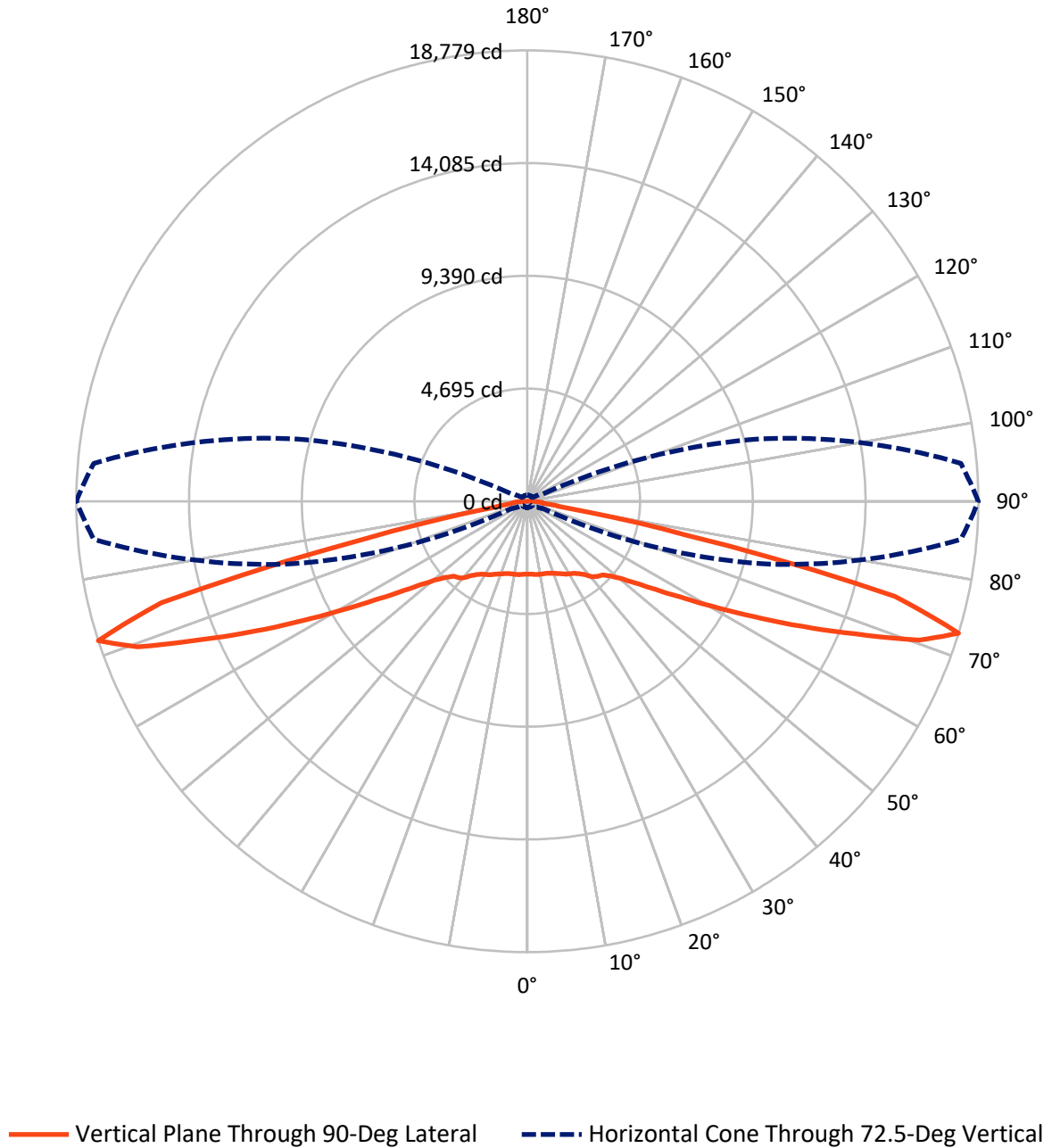
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - N/A

REPORT NUMBER: P941583
CATALOG NUMBER: GALN-SB5A-940-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P941583
 CATALOG NUMBER: GALN-SB5A-940-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8122.0	0.0	8122.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8122.0	0.0	8122.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16244.0	0.0	16244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	1.8
10°-20°	899.9	5.5
20°-30°	1500.5	9.2
30°-40°	2063.6	12.7
40°-50°	2520.3	15.5
50°-60°	2915.0	17.9
60°-70°	3475.6	21.4
70°-80°	2425.7	14.9
80°-90°	149.0	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°	16244.0	100.0
0°-180°	16244.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941583

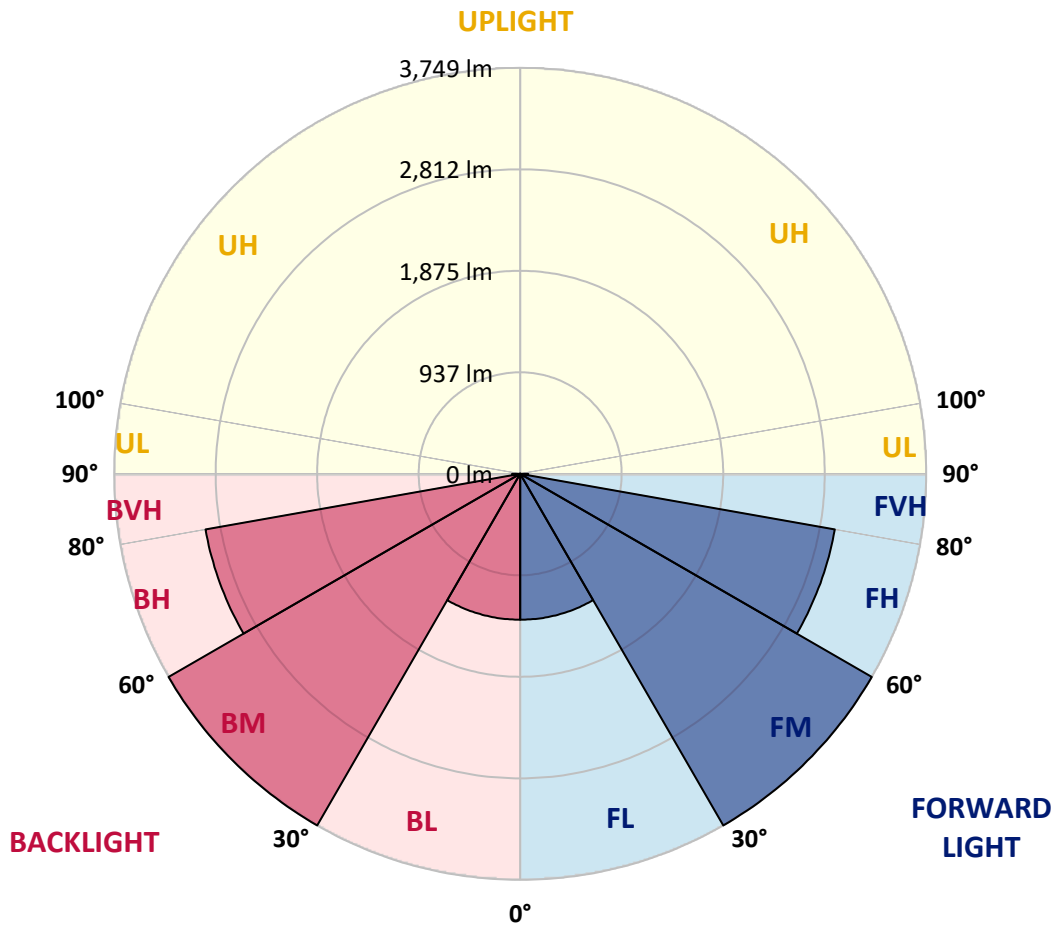
CATALOG NUMBER: GALN-SB5A-940-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.4	8.3			
FM (30°-60°)	3749.5	23.1			
FH (60°-80°)	2950.7	18.2			G2/5000
FVH (80°-90°)	74.5	0.5			G1/100
BL (0°-30°)	1347.4	8.3	B3/2500		
BM (30°-60°)	3749.5	23.1	B3/5000		
BH (60°-80°)	2950.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	74.5	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



REPORT NUMBER: P941583

CATALOG NUMBER: GALN-SB5A-940-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3035.4	3035.4	3035.4	3035.4	3035.4	3035.4	3035.4	3035.4	3035.4	3035.4
2.5°	3038.0	3041.4	3041.4	3038.8	3044.9	3039.7	3039.7	3037.1	3039.7	3037.1
5°	3053.5	3057.8	3059.5	3058.7	3066.4	3062.1	3062.1	3058.7	3059.5	3056.9
7.5°	3082.8	3088.9	3092.3	3096.7	3107.9	3102.7	3099.2	3088.9	3084.6	3077.7
10°	3092.3	3099.2	3110.5	3132.9	3158.8	3159.7	3149.3	3123.4	3103.6	3088.0
12.5°	3063.0	3072.5	3095.8	3141.5	3199.4	3222.7	3206.3	3163.1	3124.3	3096.7
15°	3025.9	3036.2	3071.6	3140.7	3226.2	3280.5	3278.8	3221.8	3159.7	3116.5
17.5°	2968.0	2978.4	3029.3	3126.0	3246.9	3336.7	3360.8	3302.1	3214.9	3157.1
20°	2863.6	2873.1	2943.9	3079.4	3253.8	3396.2	3459.2	3407.4	3298.7	3220.1
22.5°	2728.0	2742.7	2825.6	2999.1	3237.4	3458.4	3571.5	3536.1	3396.2	3287.4
25°	2583.0	2598.5	2695.2	2900.7	3195.1	3503.3	3704.4	3682.0	3506.7	3371.2
27.5°	2457.8	2474.2	2579.5	2803.1	3129.5	3520.5	3835.6	3846.9	3640.5	3463.6
30°	2359.4	2374.9	2487.2	2724.6	3044.9	3503.3	3950.5	4028.2	3776.9	3543.8
32.5°	2251.5	2271.3	2389.6	2628.7	2944.7	3461.8	4050.6	4224.1	3934.9	3630.2
35°	2115.1	2133.2	2257.5	2497.5	2813.5	3395.4	4134.3	4441.7	4161.1	3761.4
37.5°	1949.3	1966.6	2090.0	2333.5	2683.1	3302.1	4198.2	4686.9	4430.5	3950.5
40°	1782.7	1799.1	1914.8	2150.5	2526.9	3183.0	4220.7	4926.9	4739.5	4210.3
42.5°	1629.9	1644.6	1750.8	1970.1	2351.6	3031.0	4191.3	5135.8	5016.6	4391.6
45°	1489.2	1502.1	1596.2	1800.8	2169.5	2846.3	4103.3	5360.2	5346.4	4521.1
47.5°	1328.6	1341.6	1439.1	1636.8	1987.3	2629.6	3953.9	5581.2	5804.8	4814.6
50°	1132.6	1143.9	1244.0	1447.8	1798.3	2399.1	3746.7	5754.8	6383.2	5259.2
52.5°	900.4	912.5	1010.1	1213.8	1573.8	2151.3	3473.9	5867.9	7051.4	5908.4
55°	669.9	678.6	763.2	946.2	1295.8	1869.0	3132.1	5899.8	7809.4	6795.9
57.5°	486.0	491.2	545.6	682.0	982.4	1516.0	2716.8	5816.9	8711.6	7933.7
60°	393.7	395.4	411.8	472.2	682.9	1117.1	2215.2	5532.0	9690.5	9400.5
62.5°	357.4	357.4	361.7	378.1	461.9	737.3	1608.3	4941.5	10740.3	11254.0
65°	332.4	332.4	334.1	341.9	364.3	469.6	1015.2	3979.8	11625.2	13425.2
67.5°	309.9	310.8	309.9	312.5	325.5	347.0	588.8	2748.7	12101.7	15674.9
70°	286.6	288.3	284.0	284.0	294.4	295.2	368.6	1507.3	11706.3	17560.4
72.5°	259.0	261.6	254.7	252.9	260.7	257.3	277.1	723.4	10050.5	18123.3
75°	234.8	238.3	222.7	218.4	218.4	215.8	225.3	371.2	6523.1	14784.0
77.5°	213.2	220.1	195.1	181.3	177.8	170.1	183.9	227.0	2853.2	6940.9
80°	176.1	185.6	160.6	144.2	138.1	129.5	145.0	158.8	848.6	1611.8
82.5°	131.2	135.5	114.0	102.7	97.6	91.5	108.8	110.5	276.3	570.6
85°	83.7	85.5	69.9	60.4	57.8	55.3	69.1	60.4	105.3	419.6
87.5°	29.4	33.7	26.8	24.2	25.9	21.6	31.9	18.1	29.4	296.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3035.4
3037.1
3056.9
3077.7
3085.4
3092.3
3109.6
3147.6
3205.4
3267.6
3343.6
3434.2
3501.5
3576.7
3701.8
3871.0
4125.7
4282.8
4374.3
4645.4
5046.9
5646.8
6468.7
7521.9
8881.6
10559.0
12546.3
14726.2
17310.9
18779.4
15813.1
6796.8
1543.6
644.9
609.5
366.9
0.0

OF REPORT)