

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: P940833

Luminaire Tested: **GALN-SB4A-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940833
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-SB4A-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15981 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

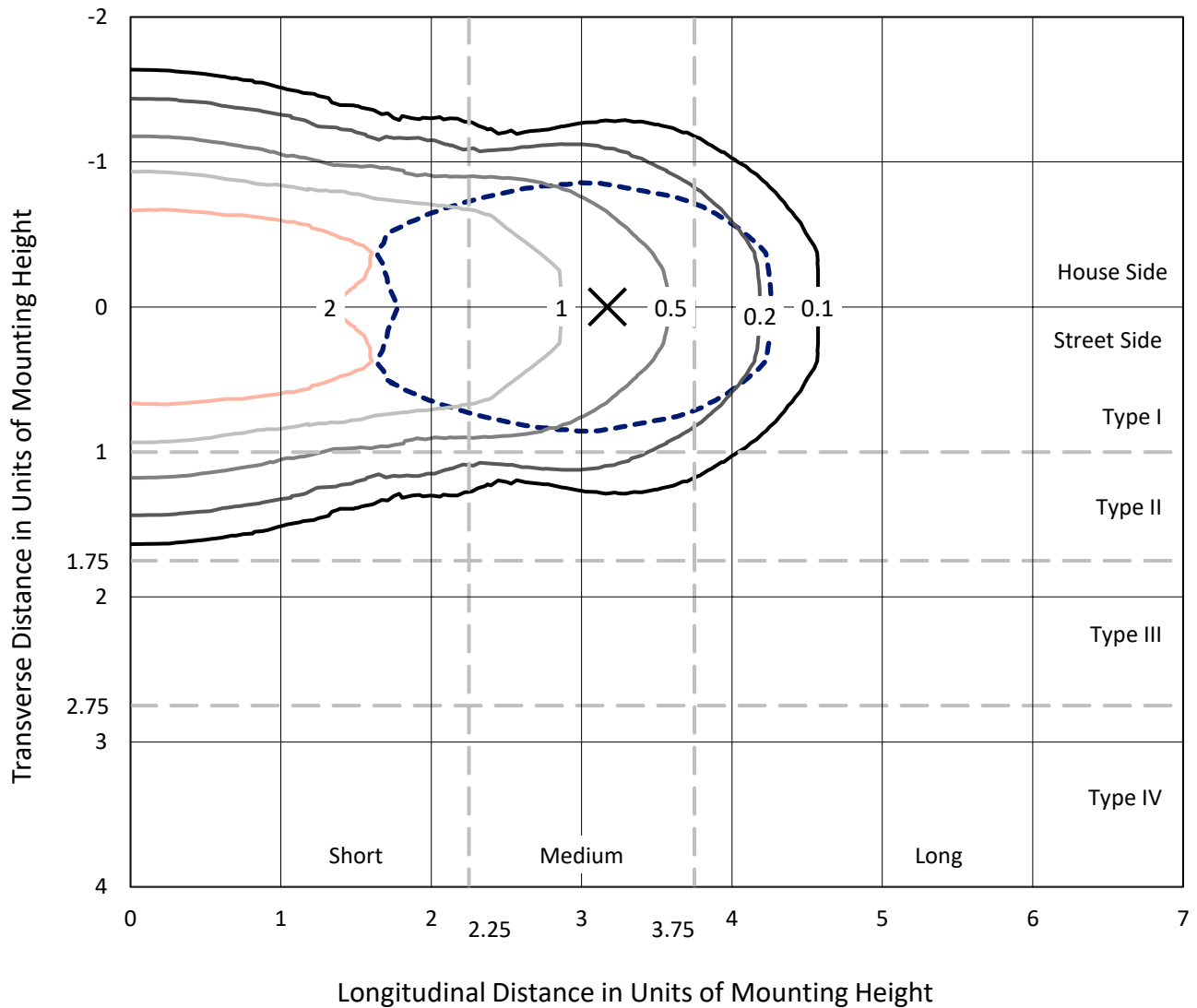
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

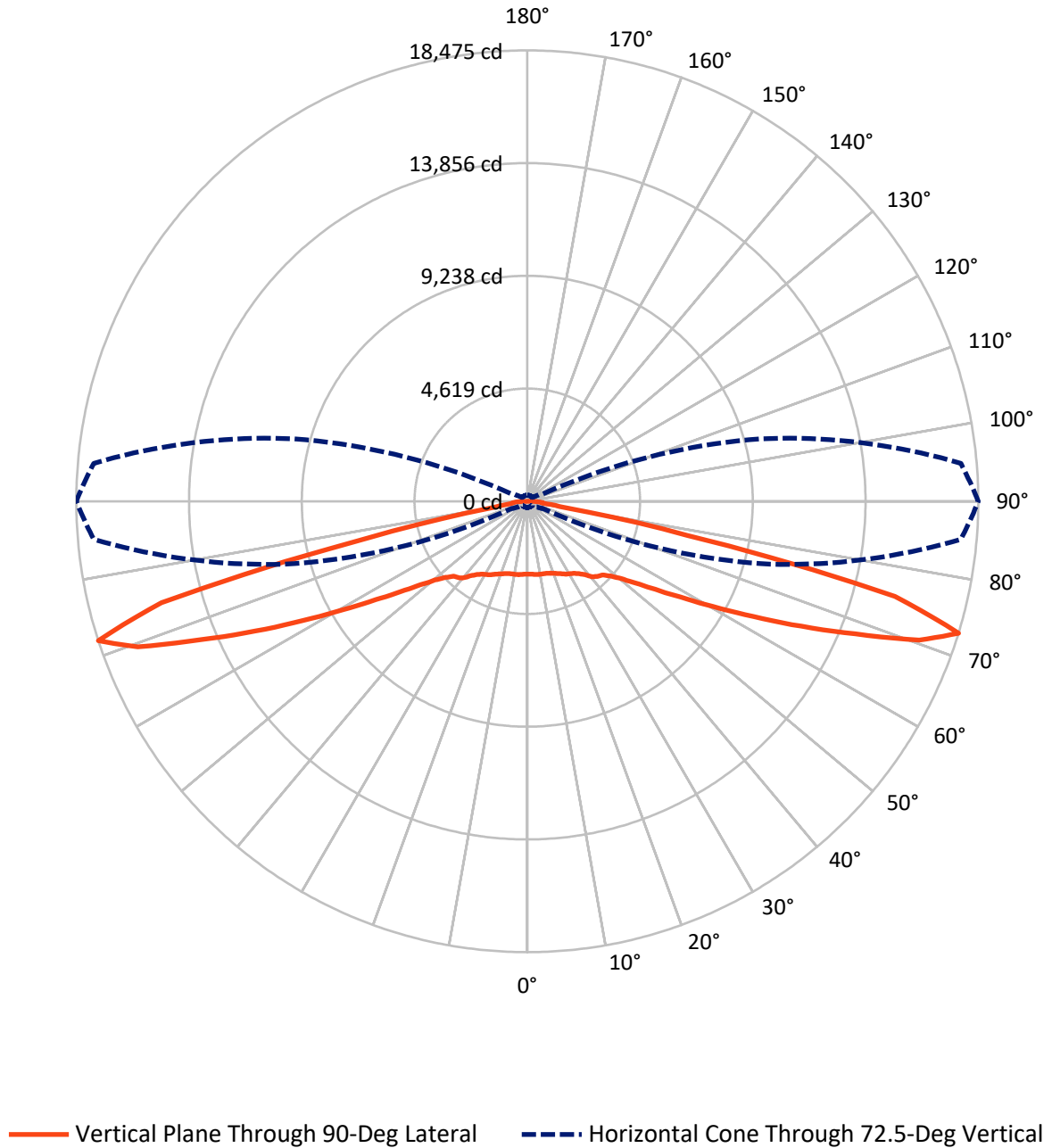
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7990.5	0.0	7990.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7990.5	0.0	7990.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15981.0	0.0	15981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	1.8
10°-20°	885.3	5.5
20°-30°	1476.2	9.2
30°-40°	2030.2	12.7
40°-50°	2479.5	15.5
50°-60°	2867.8	17.9
60°-70°	3419.4	21.4
70°-80°	2386.5	14.9
80°-90°	146.6	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°	15981.0	100.0
0°-180°	15981.0	100.0

Coefficient of Utilization



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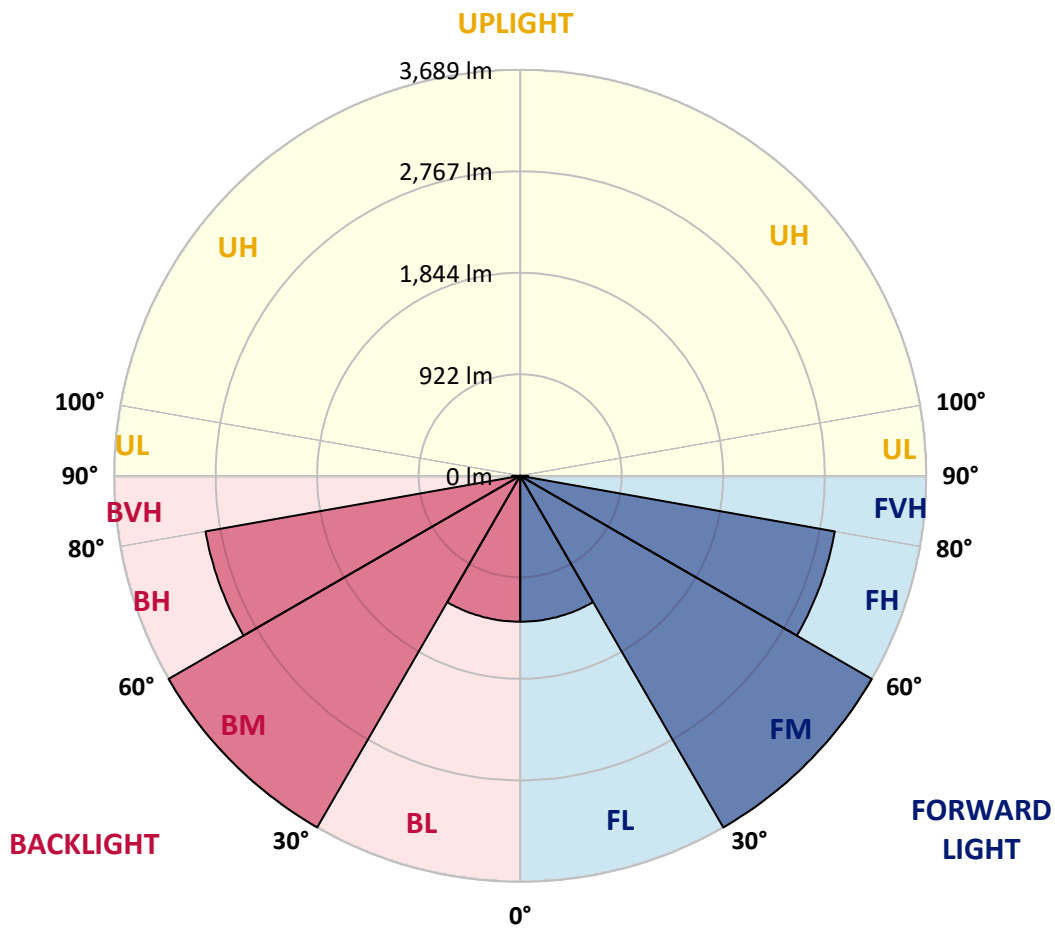
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.5	8.3			
FM (30°-60°)	3688.8	23.1			
FH (60°-80°)	2902.9	18.2			G2/5000
FVH (80°-90°)	73.3	0.5			G1/100
BL (0°-30°)	1325.5	8.3	B3/2500		
BM (30°-60°)	3688.8	23.1	B3/5000		
BH (60°-80°)	2902.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	73.3	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°	2986.2	2986.2	2986.2	2986.2	2986.2	2986.2	2986.2	2986.2	2986.2	2986.2
2.5°	2988.8	2992.2	2992.2	2989.6	2995.6	2990.5	2990.5	2987.9	2990.5	2987.9
5°	3004.1	3008.3	3010.0	3009.2	3016.8	3012.5	3012.5	3009.2	3010.0	3007.5
7.5°	3032.9	3038.9	3042.3	3046.5	3057.6	3052.5	3049.1	3038.9	3034.6	3027.8
10°	3042.3	3049.1	3060.1	3082.2	3107.7	3108.5	3098.3	3072.8	3053.3	3038.0
12.5°	3013.4	3022.7	3045.7	3090.7	3147.6	3170.5	3154.4	3111.9	3073.7	3046.5
15°	2976.9	2987.1	3021.9	3089.8	3173.9	3227.4	3225.7	3169.7	3108.5	3066.1
17.5°	2920.0	2930.2	2980.3	3075.4	3194.3	3282.6	3306.4	3248.7	3162.9	3106.0
20°	2817.2	2826.5	2896.2	3029.5	3201.1	3341.2	3403.2	3352.3	3245.3	3168.0
22.5°	2683.9	2698.3	2779.8	2950.5	3185.0	3402.4	3513.6	3478.8	3341.2	3234.2
25°	2541.2	2556.5	2651.6	2853.7	3143.3	3446.6	3644.4	3622.4	3449.9	3316.6
27.5°	2418.0	2434.2	2537.8	2757.8	3078.8	3463.5	3773.5	3784.6	3581.6	3407.5
30°	2321.2	2336.5	2446.9	2680.5	2995.6	3446.6	3886.5	3962.9	3715.8	3486.5
32.5°	2215.0	2234.6	2350.9	2586.2	2897.0	3405.8	3985.0	4155.7	3871.2	3571.4
35°	2080.8	2098.7	2221.0	2457.1	2767.9	3340.4	4067.4	4369.8	4093.7	3700.5
37.5°	1917.8	1934.8	2056.2	2295.7	2639.7	3248.7	4130.3	4611.0	4358.7	3886.5
40°	1753.9	1770.0	1883.8	2115.7	2486.0	3131.5	4152.3	4847.1	4662.8	4142.1
42.5°	1603.5	1618.0	1722.4	1938.2	2313.6	2982.0	4123.5	5052.6	4935.4	4320.5
45°	1465.1	1477.8	1570.4	1771.7	2134.3	2800.2	4036.8	5273.4	5259.9	4447.9
47.5°	1307.1	1319.8	1415.8	1610.3	1955.1	2587.0	3889.9	5490.9	5710.8	4736.7
50°	1114.3	1125.4	1223.9	1424.3	1769.1	2360.3	3686.1	5661.6	6279.9	5174.1
52.5°	885.8	897.7	993.7	1194.1	1548.3	2116.5	3417.7	5772.8	6937.3	5812.8
55°	659.1	667.6	750.8	930.9	1274.8	1838.8	3081.3	5804.3	7683.0	6685.9
57.5°	478.2	483.3	536.8	671.0	966.5	1491.4	2672.8	5722.7	8570.5	7805.3
60°	387.3	389.0	405.1	464.6	671.8	1099.0	2179.4	5442.5	9533.6	9248.3
62.5°	351.6	351.6	355.9	372.0	454.4	725.3	1582.3	4861.5	10566.4	11071.8
65°	327.0	327.0	328.7	336.3	358.4	462.0	998.8	3915.4	11437.0	13207.8
67.5°	304.9	305.8	304.9	307.5	320.2	341.4	579.2	2704.2	11905.8	15421.2
70°	282.0	283.7	279.4	279.4	289.6	290.5	362.7	1482.9	11516.8	17276.1
72.5°	254.8	257.3	250.6	248.9	256.5	253.1	272.6	711.7	9887.8	17829.8
75°	231.0	234.4	219.1	214.9	214.9	212.3	221.7	365.2	6417.5	14544.7
77.5°	209.8	216.6	191.9	178.4	175.0	167.3	180.9	223.4	2807.0	6828.6
80°	173.3	182.6	158.0	141.8	135.9	127.4	142.7	156.3	834.9	1585.7
82.5°	129.1	133.3	112.1	101.1	96.0	90.0	107.0	108.7	271.8	561.4
85°	82.4	84.1	68.8	59.5	56.9	54.4	67.9	59.5	103.6	412.8
87.5°	28.9	33.1	26.3	23.8	25.5	21.2	31.4	17.8	28.9	291.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

2986.2
2987.9
3007.5
3027.8
3035.5
3042.3
3059.3
3096.6
3153.5
3214.7
3289.4
3378.6
3444.9
3518.7
3641.9
3808.4
4058.9
4213.5
4303.5
4570.2
4965.1
5555.4
6364.0
7400.1
8737.8
10388.1
12343.2
14487.7
17030.6
18475.3
15557.0
6686.7
1518.6
634.4
599.6
361.0
0.0

OF REPORT)