

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: P950584

Luminaire Tested: **GALN-SB5A-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23730 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

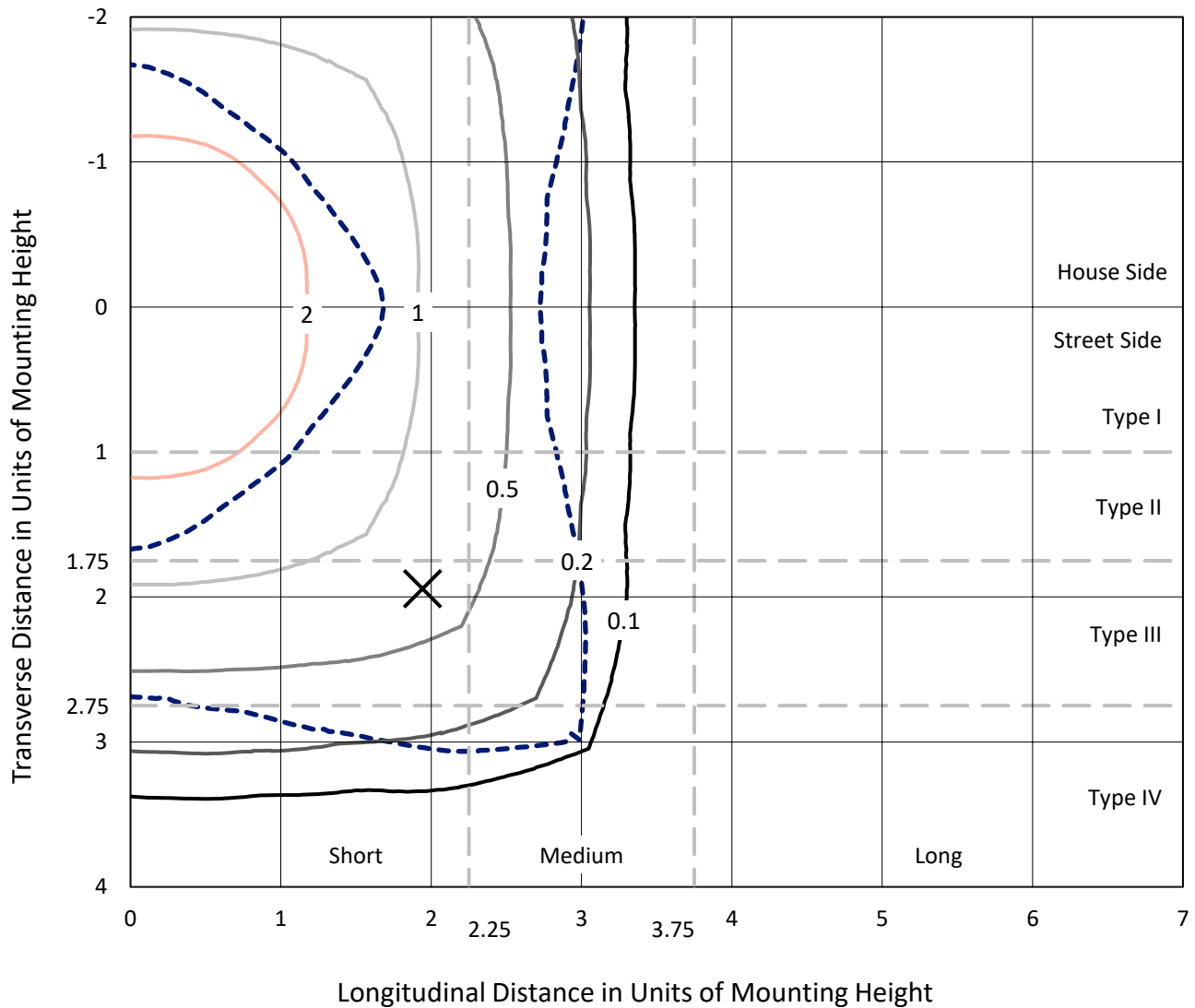


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

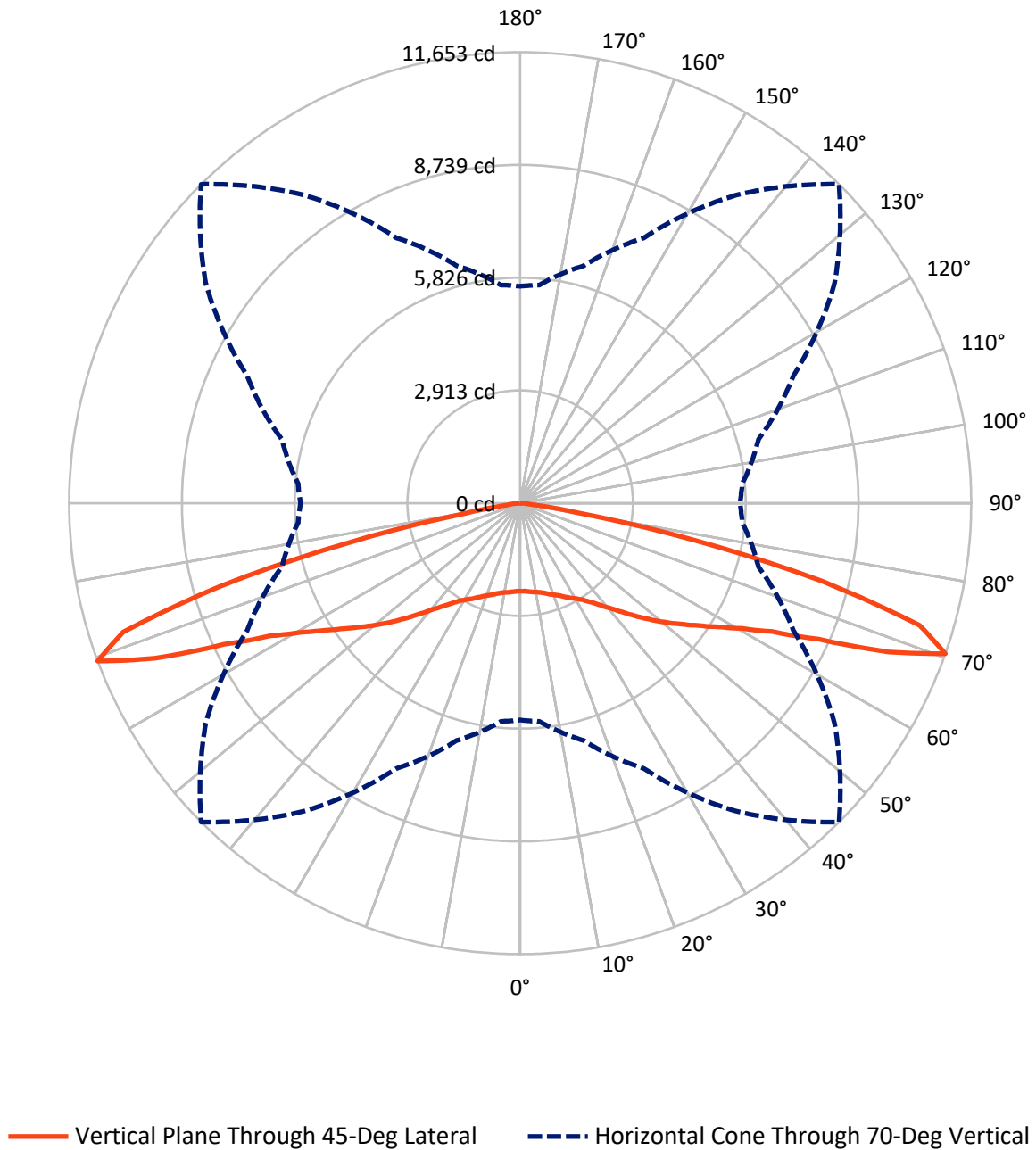


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11865.0	0.0	11865.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11865.0	0.0	11865.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23730.0	0.0	23730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	0.9
10°-20°	684.8	2.9
20°-30°	1223.8	5.2
30°-40°	1983.7	8.4
40°-50°	3231.1	13.6
50°-60°	4926.4	20.8
60°-70°	7328.9	30.9
70°-80°	3994.5	16.8
80°-90°	136.0	0.6
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°	23730.0	100.0
0°-180°	23730.0	100.0

Coefficient of Utilization



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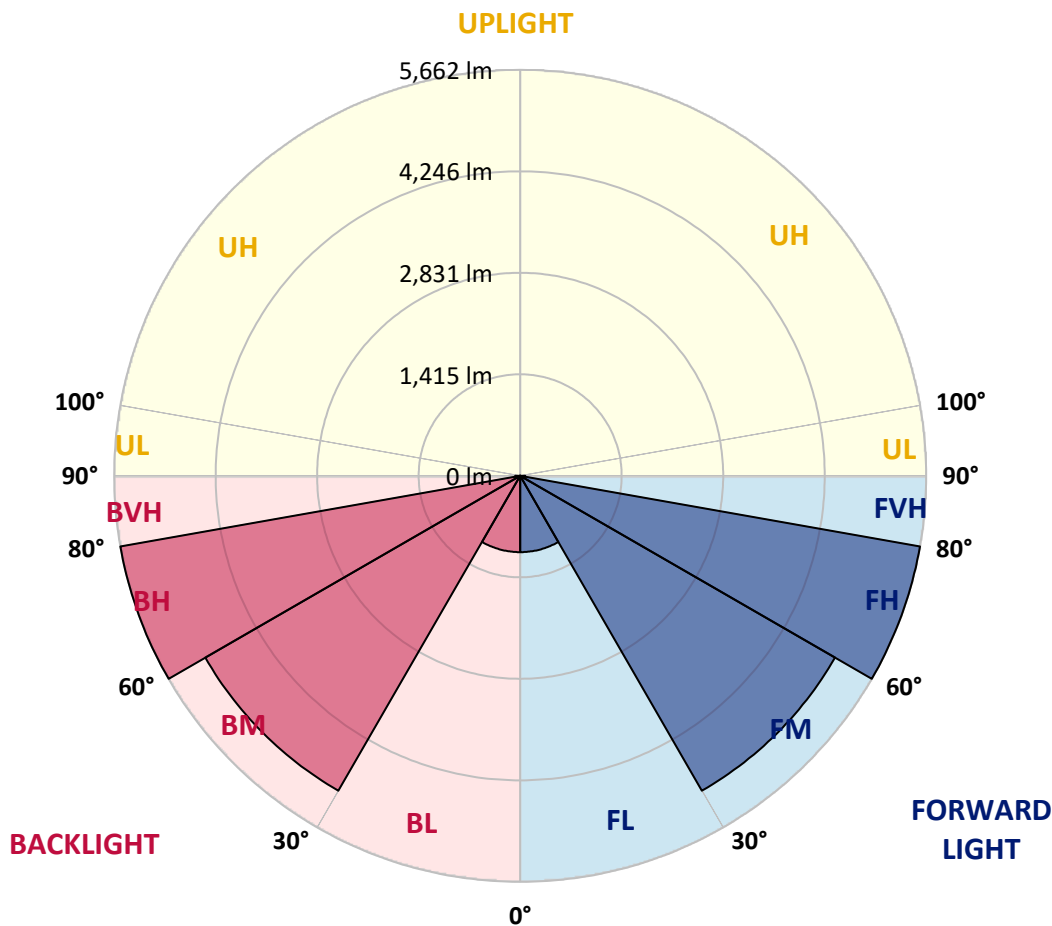
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.7	4.5			
FM	(30°-60°)	5070.6	21.4			
FH	(60°-80°)	5661.7	23.9			G3/7500
FVH	(80°-90°)	68.0	0.3			G1/100
BL	(0°-30°)	1064.7	4.5	B3/2500		
BM	(30°-60°)	5070.6	21.4	B4/8500		
BH	(60°-80°)	5661.7	23.9	B5		G3/7500
BVH	(80°-90°)	68.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1	2273.1
2.5°	2283.8	2286.2	2281.4	2279.0	2276.7	2273.1	2274.3	2280.2	2285.0	2283.8	2285.0
5°	2302.9	2305.3	2301.7	2300.5	2295.7	2294.5	2294.5	2300.5	2304.1	2301.7	2302.9
7.5°	2324.3	2327.9	2321.9	2320.7	2318.4	2316.0	2314.8	2320.7	2324.3	2324.3	2324.3
10°	2344.6	2348.1	2343.4	2339.8	2337.4	2337.4	2335.0	2339.8	2345.8	2344.6	2344.6
12.5°	2366.0	2368.4	2363.6	2361.2	2361.2	2364.8	2361.2	2363.6	2368.4	2366.0	2364.8
15°	2392.2	2393.4	2392.2	2395.8	2401.8	2413.7	2402.9	2400.6	2402.9	2397.0	2397.0
17.5°	2428.0	2430.3	2435.1	2443.5	2451.8	2473.2	2454.2	2448.2	2448.2	2436.3	2436.3
20°	2472.0	2475.6	2482.8	2497.1	2507.8	2528.0	2509.0	2500.6	2497.1	2481.6	2481.6
22.5°	2518.5	2524.5	2535.2	2554.2	2573.3	2592.4	2573.3	2559.0	2548.3	2528.0	2526.8
25°	2572.1	2579.3	2595.9	2626.9	2653.1	2680.5	2657.9	2629.3	2607.9	2579.3	2578.1
27.5°	2648.4	2656.7	2677.0	2715.1	2748.4	2772.3	2750.8	2713.9	2684.1	2649.6	2648.4
30°	2755.6	2763.9	2787.7	2828.3	2850.9	2866.4	2852.1	2823.5	2787.7	2748.4	2748.4
32.5°	2893.8	2904.5	2930.7	2968.8	2973.6	2976.0	2971.2	2956.9	2930.7	2883.1	2884.2
35°	3068.9	3080.8	3110.6	3141.6	3136.8	3141.6	3134.4	3129.7	3110.6	3055.8	3055.8
37.5°	3283.3	3297.6	3328.6	3352.4	3340.5	3334.6	3335.8	3337.0	3326.2	3265.5	3265.5
40°	3532.3	3551.4	3574.0	3599.1	3578.8	3560.9	3572.8	3582.4	3572.8	3510.9	3510.9
42.5°	3788.5	3815.9	3839.7	3875.4	3858.8	3836.1	3852.8	3863.5	3843.3	3776.6	3781.3
45°	4073.2	4099.4	4130.4	4184.0	4172.1	4148.3	4172.1	4174.5	4139.9	4061.3	4069.6
47.5°	4367.5	4394.9	4441.3	4512.8	4508.1	4481.8	4512.8	4496.1	4452.1	4357.9	4352.0
50°	4646.2	4684.4	4755.9	4855.9	4865.5	4833.3	4875.0	4842.8	4769.0	4651.0	4648.6
52.5°	4908.3	4948.9	5062.0	5197.8	5232.4	5190.7	5246.7	5190.7	5079.9	4928.6	4914.3
55°	5183.5	5228.8	5363.4	5541.0	5610.0	5579.1	5631.5	5546.9	5389.6	5206.2	5181.2
57.5°	5507.6	5535.0	5695.8	5906.7	6023.4	6030.6	6054.4	5911.5	5720.8	5512.4	5483.8
60°	5859.0	5897.2	6072.3	6324.9	6509.5	6569.1	6544.1	6332.0	6110.4	5871.0	5832.8
62.5°	6309.4	6351.1	6560.7	6863.3	7155.2	7303.0	7205.3	6897.9	6623.9	6336.8	6286.7
65°	6682.3	6728.7	7107.6	7647.3	8178.6	8475.2	8229.8	7663.9	7170.7	6765.7	6698.9
67.5°	6411.8	6469.0	7063.5	8054.7	9375.9	10261.1	9421.2	8176.2	7210.0	6660.8	6578.6
70°	5604.1	5657.7	6351.1	7562.7	9713.0	11652.6	9915.6	7785.4	6373.7	5759.0	5676.8
72.5°	3720.6	3893.3	4595.0	6048.5	8673.0	10782.9	8758.8	5925.8	4262.6	3712.2	3591.9
75°	1234.2	1372.4	1851.4	3135.6	5809.0	8064.2	5530.2	2774.6	1466.5	1055.5	998.3
77.5°	310.9	358.6	494.4	897.1	2317.2	4591.4	2086.0	732.7	399.1	278.8	249.0
80°	151.3	166.8	238.3	299.0	580.2	1459.4	544.4	281.2	188.2	145.3	133.4
82.5°	83.4	84.6	134.6	169.2	215.6	377.7	224.0	164.4	108.4	88.2	88.2
85°	51.2	50.0	71.5	90.5	90.5	134.6	107.2	90.5	61.9	54.8	57.2
87.5°	20.3	20.3	26.2	28.6	25.0	34.5	27.4	29.8	23.8	22.6	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)