

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: P941630

Luminaire Tested: **GALN-SB5B-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

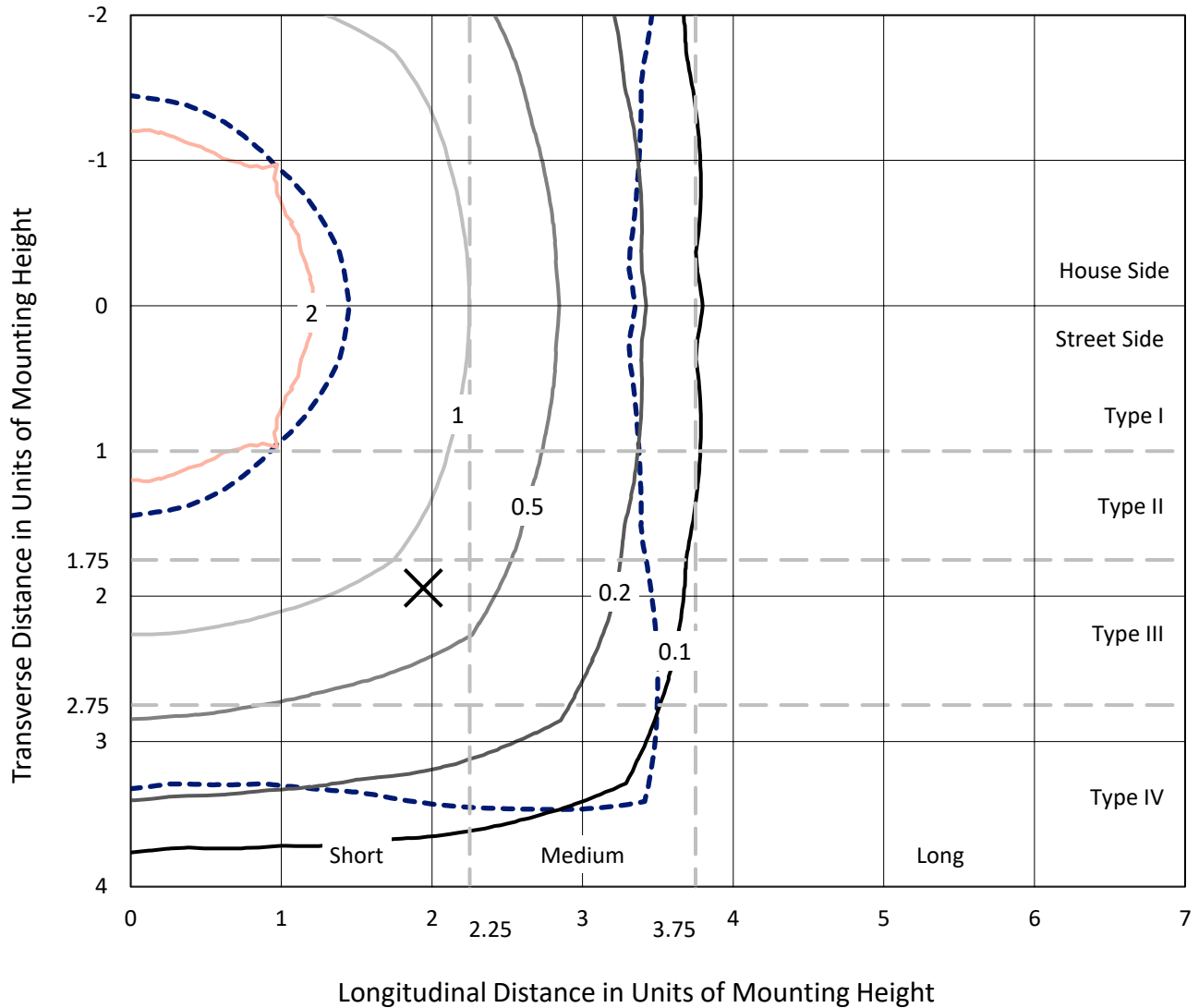
Lumens per Lamp: N/A  
Luminaire Lumens: 28772 lumens  
Efficiency: N/A  
Efficacy: 157.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

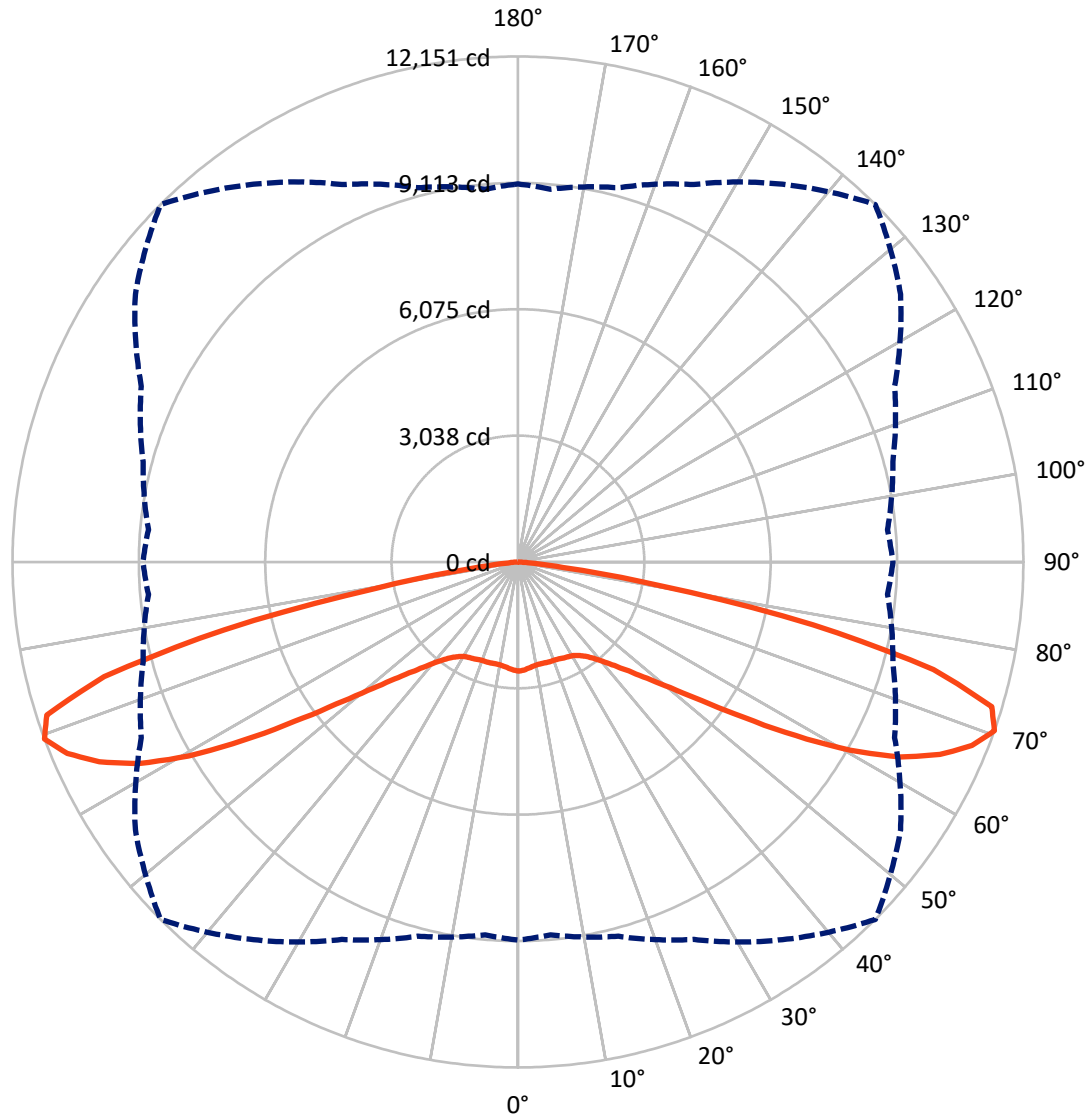
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14386.0	0.0	14386.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14386.0	0.0	14386.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28772.0	0.0	28772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.1	0.8
10°-20°	716.9	2.5
20°-30°	1193.0	4.1
30°-40°	1804.2	6.3
40°-50°	2998.1	10.4
50°-60°	5657.3	19.7
60°-70°	9552.6	33.2
70°-80°	6277.0	21.8
80°-90°	328.9	1.1
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°	28772.0	100.0
0°-180°	28772.0	100.0

**Coefficient of Utilization**



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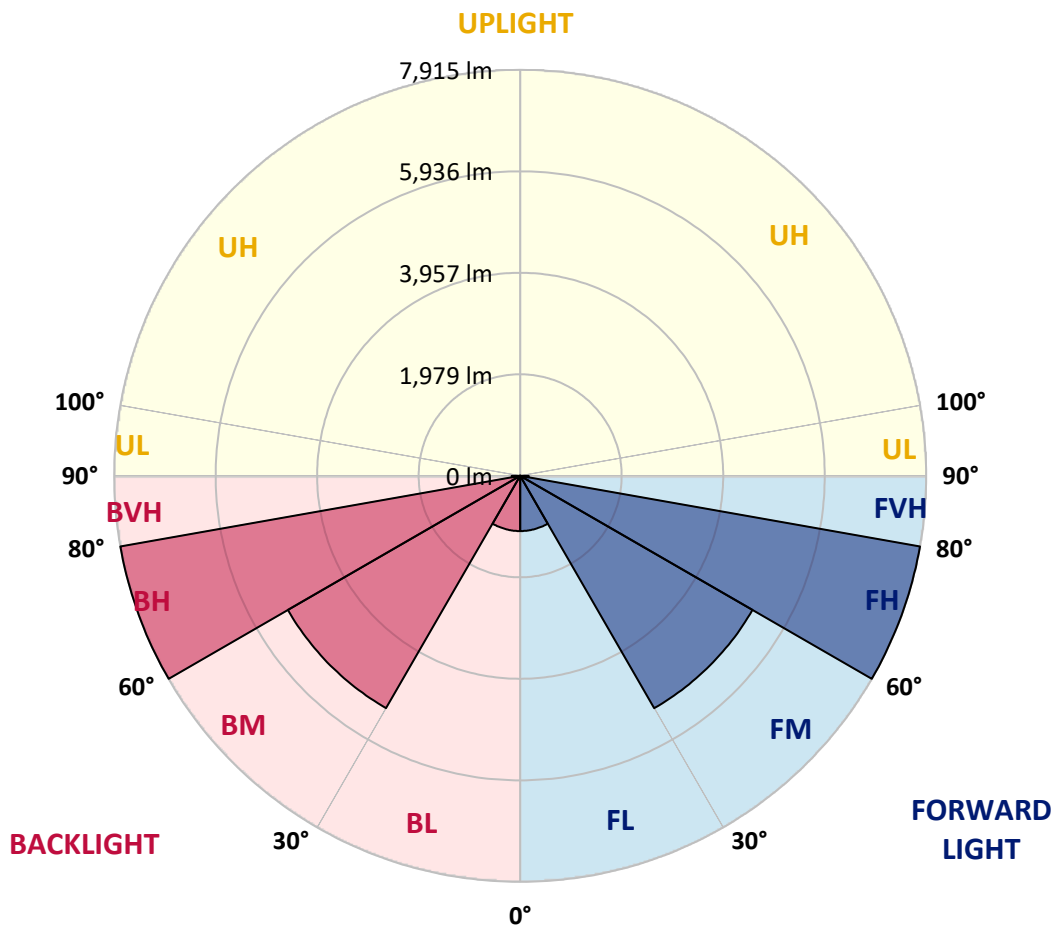
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.0	3.7			
FM (30°-60°)	5229.8	18.2			
FH (60°-80°)	7914.8	27.5			G4/12000
FVH (80°-90°)	164.4	0.6			G2/225
BL (0°-30°)	1077.0	3.7	B3/2500		
BM (30°-60°)	5229.8	18.2	B4/8500		
BH (60°-80°)	7914.8	27.5	B5		G4/12000
BVH (80°-90°)	164.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2608.1	2615.6	2612.6	2606.6	2606.6	2602.2	2606.6	2609.6	2614.1	2617.1
5°	2573.7	2579.7	2578.2	2573.7	2575.2	2570.7	2573.7	2578.2	2581.2	2582.7
7.5°	2543.8	2549.8	2546.8	2539.3	2539.3	2534.9	2536.4	2540.8	2545.3	2546.8
10°	2536.4	2542.3	2533.4	2521.4	2516.9	2510.9	2512.4	2516.9	2525.9	2530.4
12.5°	2539.3	2543.8	2534.9	2516.9	2512.4	2506.4	2506.4	2510.9	2522.9	2528.9
15°	2548.3	2552.8	2539.3	2519.9	2515.4	2510.9	2509.4	2515.4	2528.9	2539.3
17.5°	2564.8	2569.3	2548.3	2521.4	2515.4	2516.9	2515.4	2519.9	2540.8	2560.3
20°	2579.7	2582.7	2554.3	2521.4	2515.4	2516.9	2515.4	2524.4	2551.3	2578.2
22.5°	2584.2	2587.2	2560.3	2531.9	2527.4	2528.9	2527.4	2536.4	2561.8	2588.7
25°	2585.7	2590.2	2569.3	2546.8	2554.3	2557.3	2554.3	2555.8	2575.2	2599.2
27.5°	2608.1	2614.1	2594.7	2575.2	2579.7	2578.2	2582.7	2587.2	2602.2	2626.1
30°	2654.5	2659.0	2642.5	2623.1	2620.1	2609.6	2623.1	2638.0	2654.5	2675.4
32.5°	2730.8	2739.7	2718.8	2697.9	2684.4	2678.4	2688.9	2714.3	2736.7	2759.2
35°	2857.9	2863.9	2844.4	2805.5	2781.6	2781.6	2790.6	2823.5	2859.4	2887.8
37.5°	3037.3	3044.8	3010.4	2964.1	2928.2	2928.2	2940.1	2974.5	3028.4	3068.7
40°	3255.7	3266.2	3222.8	3174.9	3140.5	3134.5	3149.5	3188.4	3239.2	3290.1
42.5°	3518.9	3530.9	3474.0	3432.2	3405.2	3405.2	3412.7	3448.6	3495.0	3557.8
45°	3855.4	3876.3	3798.5	3756.7	3731.2	3737.2	3741.7	3773.1	3815.0	3886.8
47.5°	4256.2	4277.1	4194.9	4151.5	4147.0	4175.4	4157.5	4179.9	4202.3	4284.6
50°	4710.8	4746.7	4689.9	4686.9	4695.8	4748.2	4706.3	4718.3	4692.8	4745.2
52.5°	5267.1	5319.5	5309.0	5326.9	5427.1	5534.8	5439.1	5397.2	5301.5	5318.0
55°	5941.6	6020.8	6035.8	6143.5	6370.8	6590.6	6387.2	6218.2	6014.9	5977.5
57.5°	6708.8	6771.6	6843.4	7063.2	7487.9	7878.2	7487.9	7114.0	6794.0	6717.7
60°	7534.3	7612.0	7680.8	8005.4	8636.5	9185.3	8624.5	8030.8	7607.6	7504.4
62.5°	8421.1	8521.3	8569.2	8929.6	9665.4	10320.4	9675.8	8956.5	8486.9	8376.2
65°	9272.0	9354.3	9408.1	9792.5	10495.4	11151.9	10543.2	9834.3	9351.3	9206.2
67.5°	9668.3	9713.2	9844.8	10280.0	11021.8	11771.0	11147.4	10326.4	9786.5	9532.3
70°	9088.1	8996.9	9313.9	10010.8	11084.6	12150.9	11228.1	9989.9	9328.9	8916.1
72.5°	7022.8	6865.8	7416.1	8608.0	10366.7	11908.6	10438.5	8675.3	7758.6	6921.1
75°	3821.0	3643.0	4402.7	5910.2	8267.1	10321.9	8457.0	6079.2	4902.2	3792.6
77.5°	1078.2	1011.0	1624.1	2859.4	4972.5	7247.1	5163.9	2922.2	1926.2	1142.6
80°	330.5	320.0	433.7	861.4	2111.6	3471.0	2029.4	871.9	551.8	348.4
82.5°	195.9	179.5	215.4	314.1	538.4	1090.2	523.4	327.5	263.2	176.5
85°	112.2	104.7	127.1	152.5	181.0	231.8	151.0	155.5	140.6	94.2
87.5°	46.4	41.9	49.4	47.9	41.9	53.8	40.4	47.9	56.8	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2624.6
2615.6
2582.7
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2540.8
2560.3
2579.7
2588.7
2597.7
2620.1
2670.9
2750.2
2877.3
3053.8
3273.6
3553.3
3883.8
4260.7
4713.8
5262.6
5919.2
6663.9
7414.6
8286.5
9134.5
9535.2
9014.8
7129.0
4039.3
1269.7
367.9
191.4
98.7
34.4
0.0

OF REPORT)