

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: P941120

Luminaire Tested: **GALN-SB4C-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941120  
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-SB4C-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

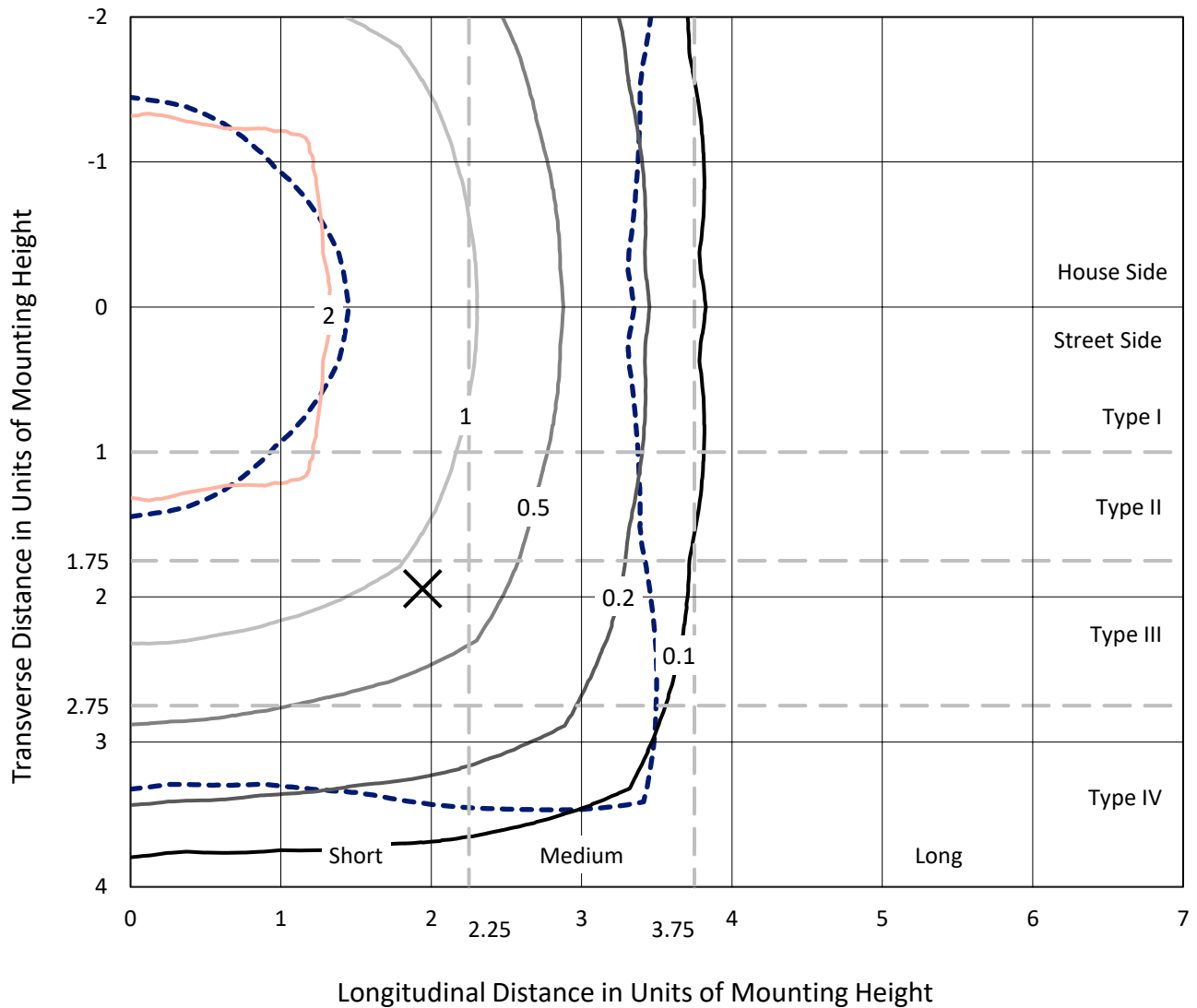
Lumens per Lamp: N/A  
Luminaire Lumens: 30360 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

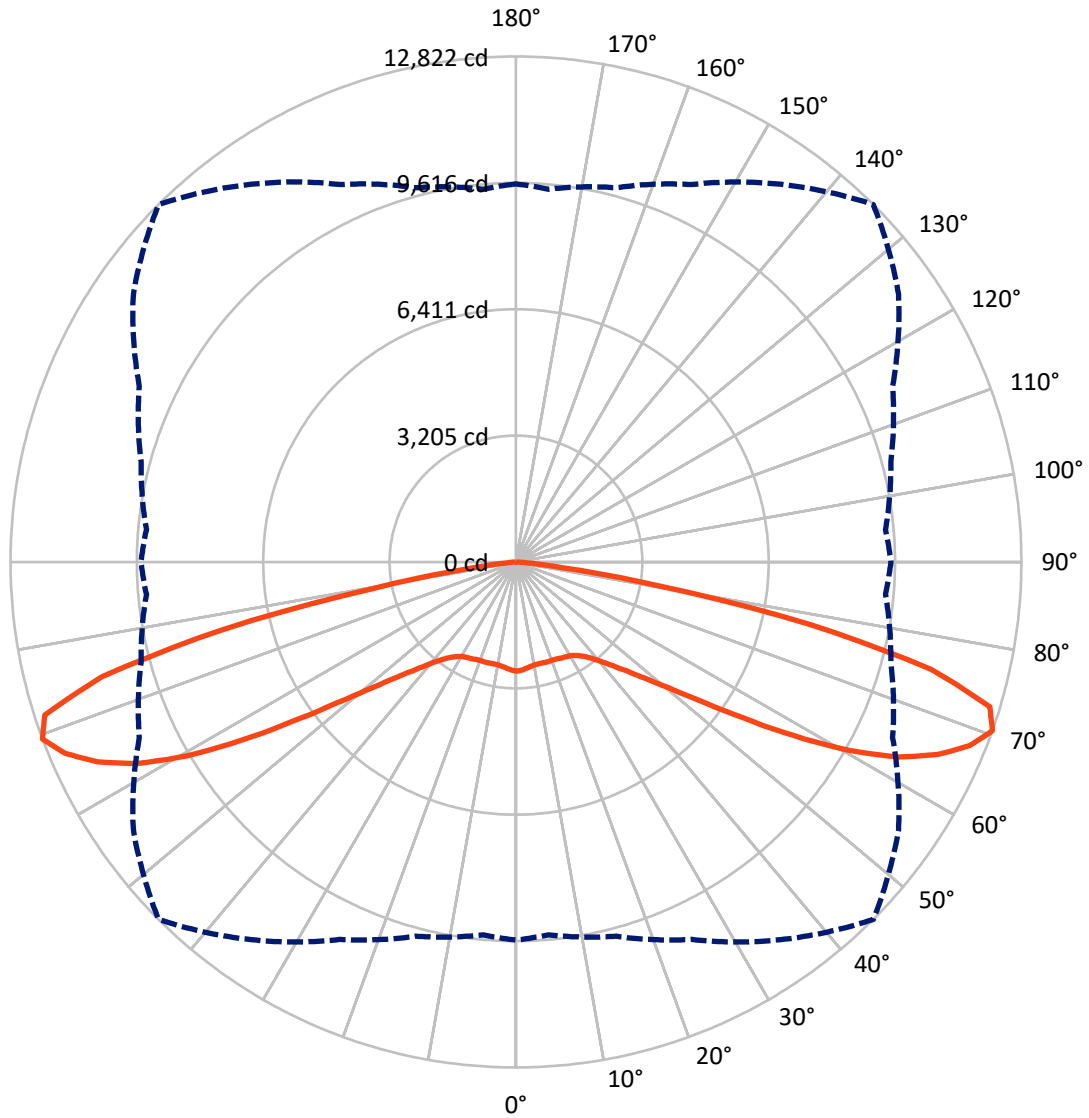
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	15180.0	0.0	15180.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15180.0	0.0	15180.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30360.0	0.0	30360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.6	0.8
10°-20°	756.4	2.5
20°-30°	1258.8	4.1
30°-40°	1903.7	6.3
40°-50°	3163.6	10.4
50°-60°	5969.5	19.7
60°-70°	10079.8	33.2
70°-80°	6623.5	21.8
80°-90°	347.0	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°	30360.0	100.0
0°-180°	30360.0	100.0

**Coefficient of Utilization**

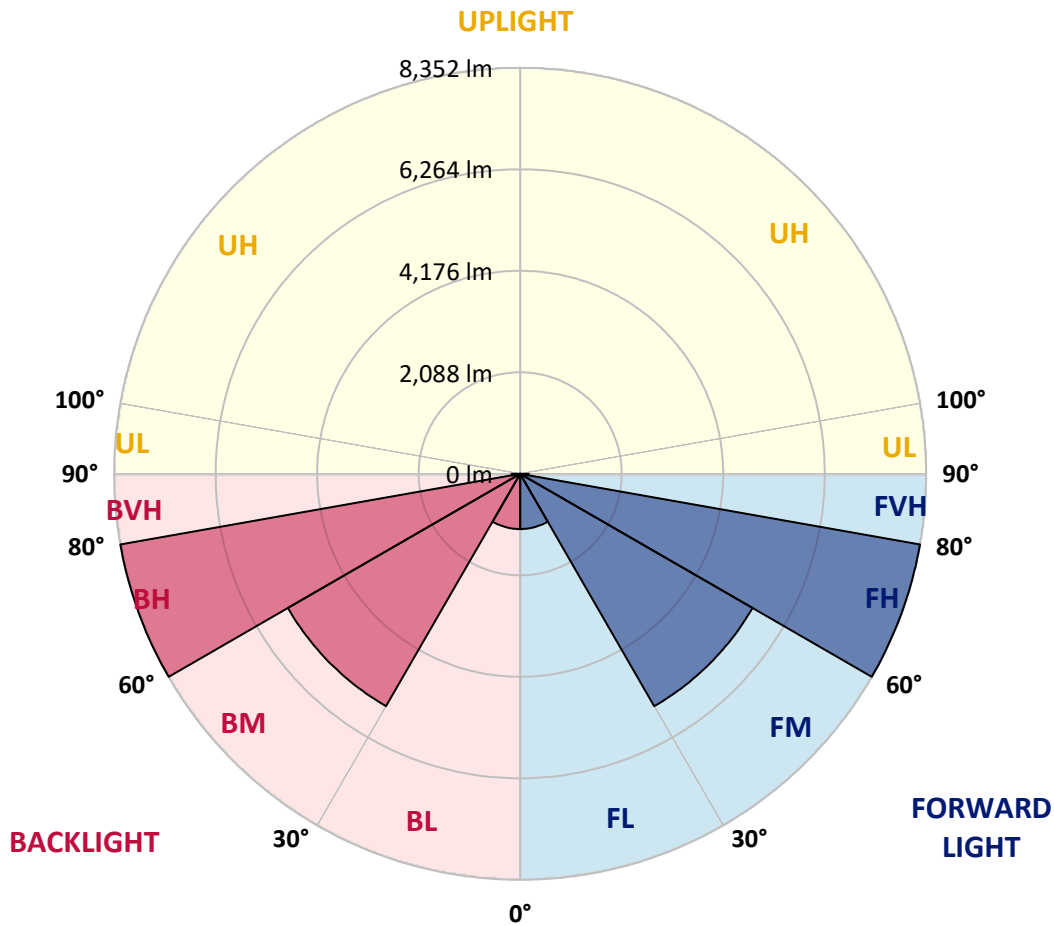


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.5	3.7			
FM (30°-60°)	5518.4	18.2			
FH (60°-80°)	8351.6	27.5			G4/12000
FVH (80°-90°)	173.5	0.6			G2/225
BL (0°-30°)	1136.5	3.7	B3/2500		
BM (30°-60°)	5518.4	18.2	B4/8500		
BH (60°-80°)	8351.6	27.5	B5		G4/12000
BVH (80°-90°)	173.5	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°	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4
2.5°	2752.1	2760.0	2756.8	2750.5	2750.5	2745.8	2750.5	2753.7	2758.4	2761.6
5°	2715.8	2722.1	2720.5	2715.8	2717.4	2712.6	2715.8	2720.5	2723.7	2725.3
7.5°	2684.2	2690.5	2687.4	2679.5	2679.5	2674.8	2676.3	2681.1	2685.8	2687.4
10°	2676.3	2682.7	2673.2	2660.6	2655.8	2649.5	2651.1	2655.8	2665.3	2670.0
12.5°	2679.5	2684.2	2674.8	2655.8	2651.1	2644.8	2644.8	2649.5	2662.1	2668.4
15°	2689.0	2693.7	2679.5	2659.0	2654.2	2649.5	2647.9	2654.2	2668.4	2679.5
17.5°	2706.3	2711.1	2689.0	2660.6	2654.2	2655.8	2654.2	2659.0	2681.1	2701.6
20°	2722.1	2725.3	2695.3	2660.6	2654.2	2655.8	2654.2	2663.7	2692.1	2720.5
22.5°	2726.8	2730.0	2701.6	2671.6	2666.9	2668.4	2666.9	2676.3	2703.2	2731.6
25°	2728.4	2733.1	2711.1	2687.4	2695.3	2698.4	2695.3	2696.9	2717.4	2742.6
27.5°	2752.1	2758.4	2737.9	2717.4	2722.1	2720.5	2725.3	2730.0	2745.8	2771.0
30°	2801.0	2805.7	2788.4	2767.9	2764.7	2753.7	2767.9	2783.6	2801.0	2823.1
32.5°	2881.5	2891.0	2868.9	2846.8	2832.6	2826.3	2837.3	2864.1	2887.8	2911.5
35°	3015.6	3021.9	3001.4	2960.4	2935.1	2935.1	2944.6	2979.3	3017.2	3047.2
37.5°	3205.0	3212.9	3176.6	3127.7	3089.8	3089.8	3102.4	3138.7	3195.5	3238.1
40°	3435.4	3446.4	3400.7	3350.2	3313.9	3307.6	3323.3	3364.4	3418.0	3471.7
42.5°	3713.1	3725.7	3665.8	3621.6	3593.2	3593.2	3601.1	3638.9	3687.9	3754.1
45°	4068.2	4090.3	4008.2	3964.0	3937.2	3943.5	3948.2	3981.4	4025.6	4101.3
47.5°	4491.1	4513.2	4426.4	4380.6	4375.9	4405.9	4386.9	4410.6	4434.3	4521.1
50°	4970.8	5008.7	4948.7	4945.5	4955.0	5010.2	4966.1	4978.7	4951.9	5007.1
52.5°	5557.8	5613.1	5602.0	5620.9	5726.7	5840.3	5739.3	5695.1	5594.1	5611.5
55°	6269.5	6353.2	6368.9	6482.5	6722.4	6954.4	6739.8	6561.5	6346.8	6307.4
57.5°	7079.0	7145.3	7221.1	7453.0	7901.2	8313.1	7901.2	7506.7	7169.0	7088.5
60°	7950.1	8032.2	8104.8	8447.2	9113.1	9692.3	9100.5	8474.0	8027.4	7918.6
62.5°	8885.9	8991.6	9042.1	9422.4	10198.8	10890.0	10209.9	9450.8	8955.3	8838.5
65°	9783.8	9870.6	9927.4	10332.9	11074.6	11767.4	11125.1	10377.1	9867.4	9714.4
67.5°	10202.0	10249.3	10388.2	10847.4	11630.1	12420.7	11762.6	10896.3	10326.6	10058.4
70°	9589.7	9493.4	9828.0	10563.3	11696.4	12821.5	11847.9	10541.2	9843.8	9408.2
72.5°	7410.4	7244.7	7825.5	9083.1	10938.9	12565.9	11014.7	9154.2	8186.8	7303.1
75°	4031.9	3844.1	4645.7	6236.4	8723.4	10891.6	8923.8	6414.7	5172.8	4001.9
77.5°	1137.8	1066.7	1713.7	3017.2	5247.0	7647.1	5448.9	3083.5	2032.5	1205.6
80°	348.7	337.7	457.6	908.9	2228.2	3662.6	2141.4	920.0	582.3	367.7
82.5°	206.7	189.4	227.2	331.4	568.1	1150.4	552.3	345.6	277.7	186.2
85°	118.4	110.5	134.1	161.0	190.9	244.6	159.4	164.1	148.3	99.4
87.5°	48.9	44.2	52.1	50.5	44.2	56.8	42.6	50.5	60.0	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
2769.4  
2760.0  
2725.3  
2687.4  
2670.0  
2670.0  
2681.1  
2701.6  
2722.1  
2731.6  
2741.0  
2764.7  
2818.4  
2902.0  
3036.1  
3222.3  
3454.3  
3749.4  
4098.1  
4495.8  
4974.0  
5553.1  
6245.8  
7031.7  
7823.9  
8743.9  
9638.6  
10061.5  
9512.4  
7522.5  
4262.3  
1339.7  
388.2  
202.0  
104.2  
36.3  
0.0

OF REPORT)