

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: P942820

Luminaire Tested: **GALN-SB7A-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942820  
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-SB7A-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

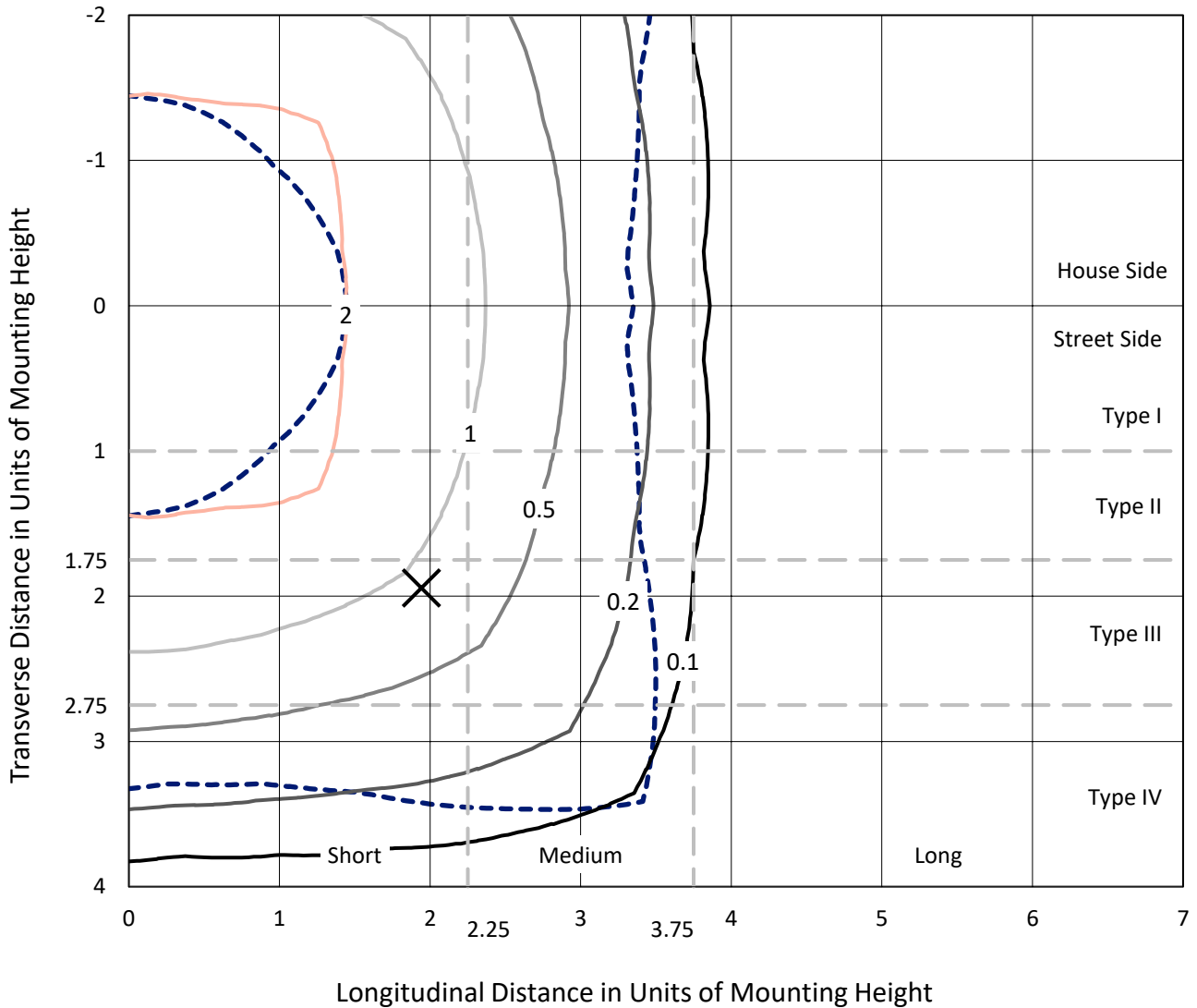
Lumens per Lamp: N/A  
Luminaire Lumens: 32268 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

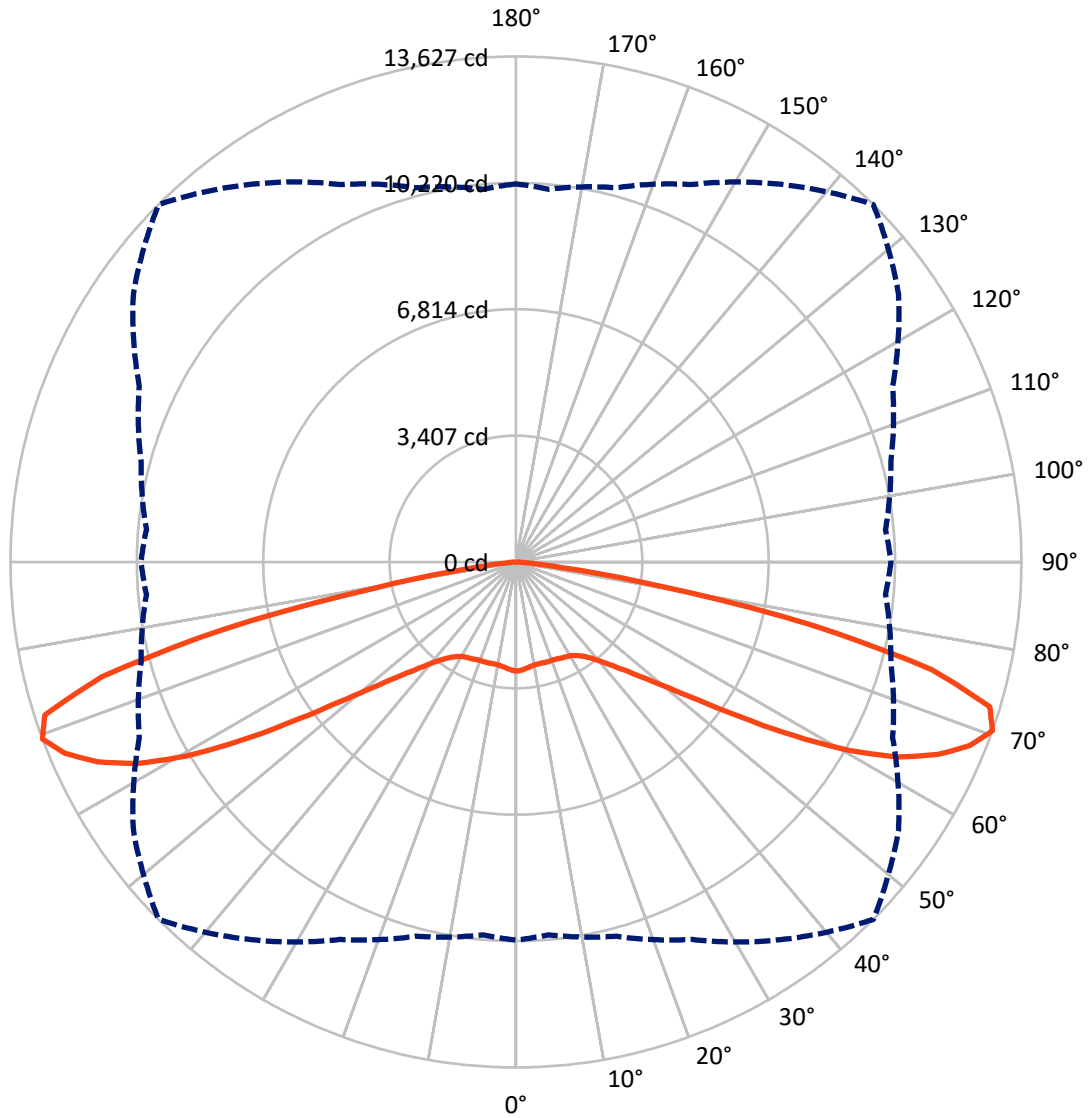
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	16134.0	0.0	16134.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16134.0	0.0	16134.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32268.0	0.0	32268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	0.8
10°-20°	804.0	2.5
20°-30°	1337.9	4.1
30°-40°	2023.4	6.3
40°-50°	3362.4	10.4
50°-60°	6344.7	19.7
60°-70°	10713.3	33.2
70°-80°	7039.7	21.8
80°-90°	368.8	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°	32268.0	100.0
0°-180°	32268.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942820

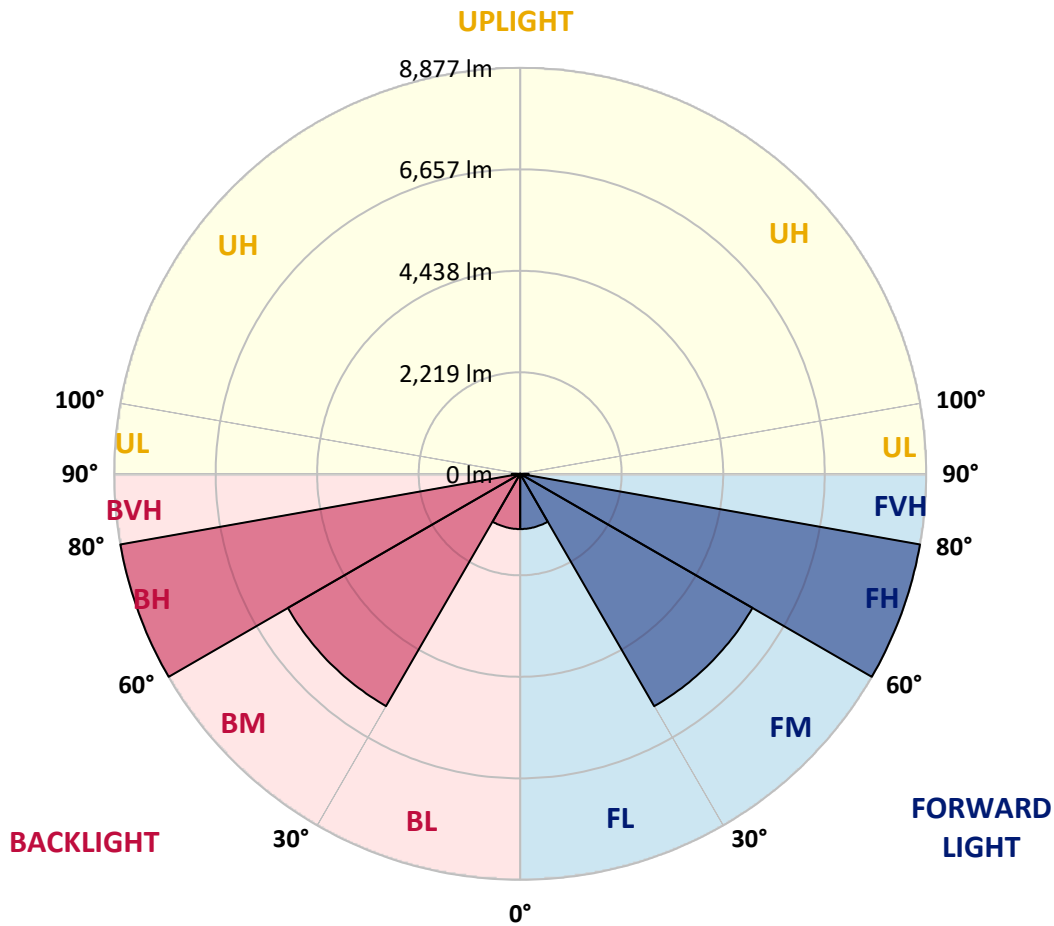
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.9	3.7			
FM (30°-60°)	5865.2	18.2			
FH (60°-80°)	8876.5	27.5			G4/12000
FVH (80°-90°)	184.4	0.6			G2/225
BL (0°-30°)	1207.9	3.7	B3/2500		
BM (30°-60°)	5865.2	18.2	B4/8500		
BH (60°-80°)	8876.5	27.5	B5		G4/12000
BVH (80°-90°)	184.4	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°	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5
2.5°	2925.0	2933.4	2930.1	2923.4	2923.4	2918.3	2923.4	2926.7	2931.8	2935.1
5°	2886.5	2893.2	2891.5	2886.5	2888.1	2883.1	2886.5	2891.5	2894.9	2896.5
7.5°	2852.9	2859.6	2856.3	2847.9	2847.9	2842.9	2844.5	2849.6	2854.6	2856.3
10°	2844.5	2851.2	2841.2	2827.8	2822.7	2816.0	2817.7	2822.7	2832.8	2837.8
12.5°	2847.9	2852.9	2842.9	2822.7	2817.7	2811.0	2811.0	2816.0	2829.4	2836.2
15°	2858.0	2863.0	2847.9	2826.1	2821.1	2816.0	2814.3	2821.1	2836.2	2847.9
17.5°	2876.4	2881.4	2858.0	2827.8	2821.1	2822.7	2821.1	2826.1	2849.6	2871.4
20°	2893.2	2896.5	2864.7	2827.8	2821.1	2822.7	2821.1	2831.1	2861.3	2891.5
22.5°	2898.2	2901.6	2871.4	2839.5	2834.5	2836.2	2834.5	2844.5	2873.0	2903.2
25°	2899.9	2904.9	2881.4	2856.3	2864.7	2868.0	2864.7	2866.3	2888.1	2915.0
27.5°	2925.0	2931.8	2909.9	2888.1	2893.2	2891.5	2896.5	2901.6	2918.3	2945.2
30°	2977.0	2982.1	2963.6	2941.8	2938.5	2926.7	2941.8	2958.6	2977.0	3000.5
32.5°	3062.6	3072.6	3049.2	3025.7	3010.6	3003.9	3015.6	3044.1	3069.3	3094.4
35°	3205.1	3211.8	3190.0	3146.4	3119.6	3119.6	3129.7	3166.6	3206.8	3238.7
37.5°	3406.4	3414.8	3376.2	3324.2	3284.0	3284.0	3297.4	3336.0	3396.3	3441.6
40°	3651.3	3663.0	3614.4	3560.7	3522.1	3515.4	3532.2	3575.8	3632.8	3689.8
42.5°	3946.5	3959.9	3896.1	3849.2	3819.0	3819.0	3827.4	3867.6	3919.6	3990.1
45°	4323.8	4347.3	4260.1	4213.1	4184.6	4191.3	4196.4	4231.6	4278.5	4359.1
47.5°	4773.3	4796.8	4704.6	4655.9	4650.9	4682.8	4662.6	4687.8	4712.9	4805.2
50°	5283.2	5323.4	5259.7	5256.4	5266.4	5325.1	5278.2	5291.6	5263.1	5321.8
52.5°	5907.1	5965.8	5954.1	5974.2	6086.6	6207.3	6100.0	6053.0	5945.7	5964.1
55°	6663.5	6752.4	6769.2	6889.9	7144.9	7391.4	7163.3	6973.8	6745.7	6703.8
57.5°	7523.9	7594.4	7674.9	7921.4	8397.8	8835.5	8397.8	7978.5	7619.5	7534.0
60°	8449.7	8537.0	8614.1	8978.1	9685.8	10301.4	9672.4	9006.6	8531.9	8416.2
62.5°	9444.3	9556.7	9610.4	10014.6	10839.8	11574.4	10851.5	10044.8	9518.1	9394.0
65°	10398.7	10490.9	10551.3	10982.3	11770.6	12506.9	11824.3	11029.3	10487.6	10324.9
67.5°	10843.1	10893.4	11041.0	11529.1	12361.0	13201.3	12501.9	11581.1	10975.6	10690.5
70°	10192.4	10090.1	10445.6	11227.2	12431.4	13627.3	12592.4	11203.7	10462.4	9999.5
72.5°	7876.1	7700.0	8317.2	9654.0	11626.4	13355.6	11706.9	9729.5	8701.3	7762.1
75°	4285.3	4085.7	4937.7	6628.3	9271.6	11576.1	9484.6	6817.8	5497.9	4253.4
77.5°	1209.3	1133.8	1821.4	3206.8	5576.7	8127.7	5791.4	3277.3	2160.2	1281.4
80°	370.7	358.9	486.4	966.1	2368.2	3892.8	2276.0	977.8	618.9	390.8
82.5°	219.7	201.3	241.5	352.2	603.8	1222.7	587.0	367.3	295.2	197.9
85°	125.8	117.4	142.6	171.1	202.9	260.0	169.4	174.4	157.7	105.7
87.5°	52.0	47.0	55.3	53.7	47.0	60.4	45.3	53.7	63.7	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2943.5
2933.4
2896.5
2856.3
2837.8
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2871.4
2893.2
2903.2
2913.3
2938.5
2995.5
3084.4
3226.9
3424.8
3671.4
3985.0
4355.7
4778.4
5286.5
5902.1
6638.4
7473.6
8315.6
9293.4
10244.4
10693.8
10110.2
7995.2
4530.1
1423.9
412.6
214.7
110.7
38.6
0.0

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