

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: P949538

Luminaire Tested: **GALN-SB4B-735-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-735-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

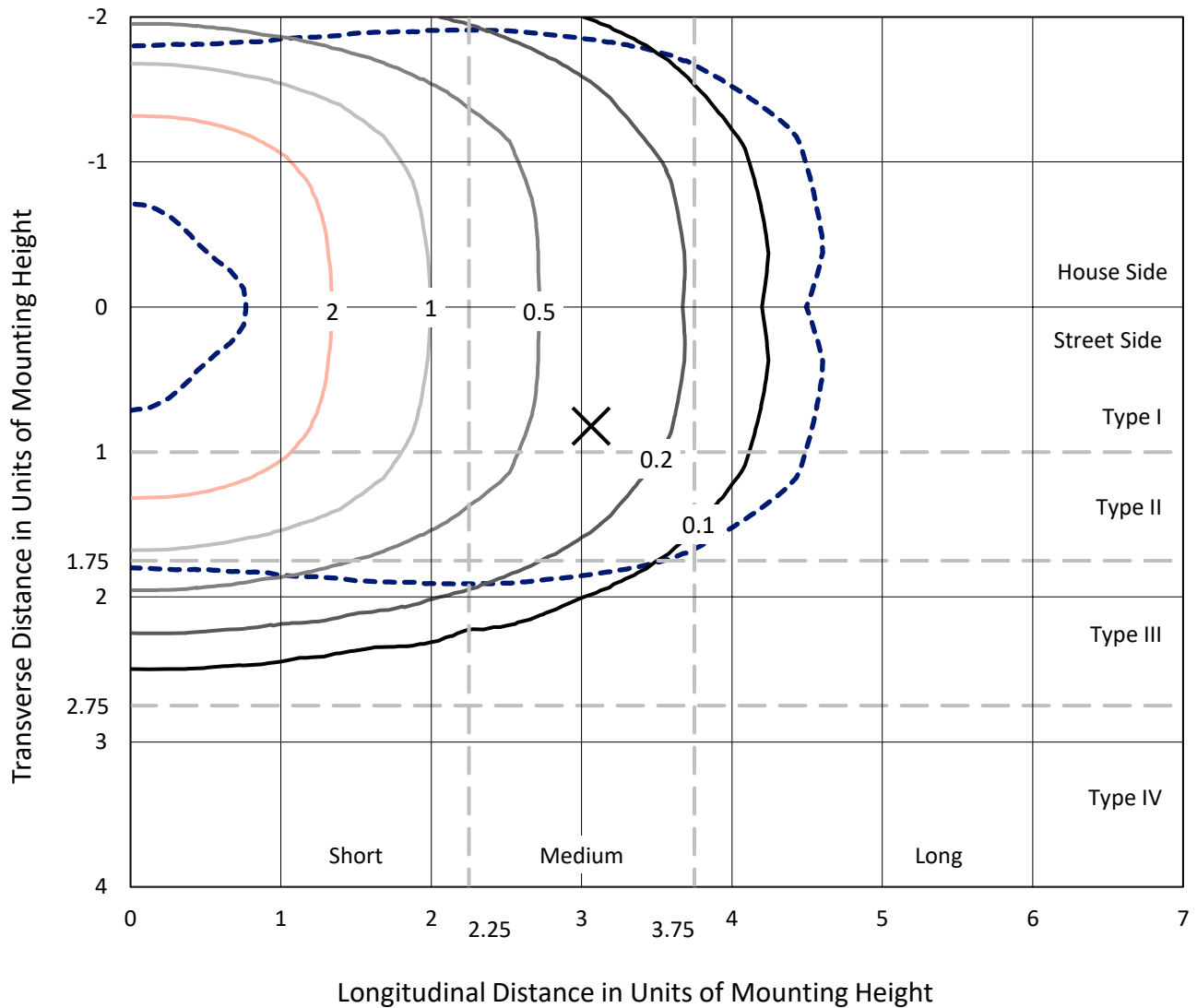
Lumens per Lamp: N/A  
Luminaire Lumens: 23239 lumens  
Efficiency: N/A  
Efficacy: 158.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P949538  
 CATALOG NUMBER: GALN-SB4B-735-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

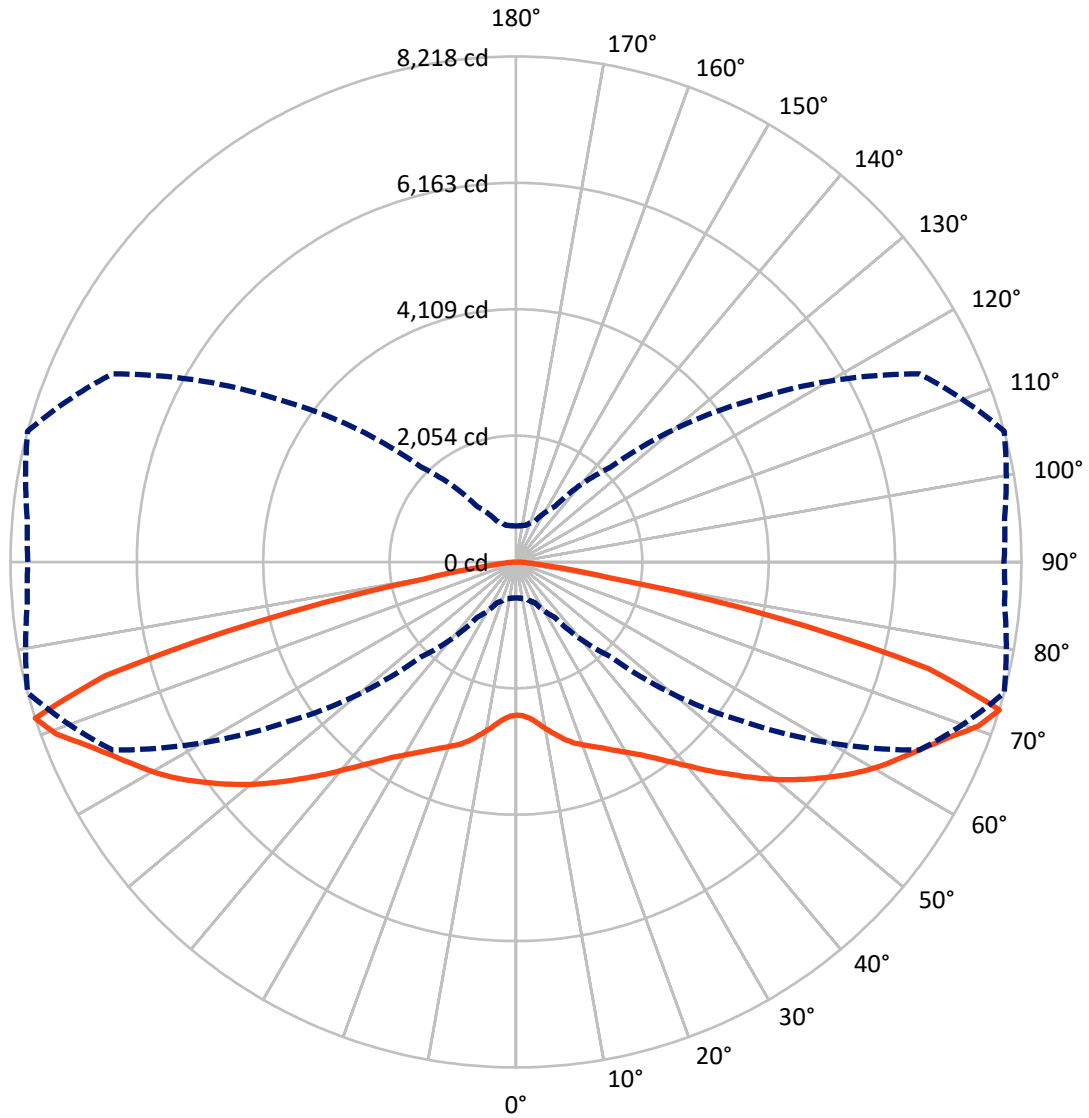
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P949538  
CATALOG NUMBER: GALN-SB4B-735-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P949538

CATALOG NUMBER: GALN-SB4B-735-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11619.5	0.0	11619.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11619.5	0.0	11619.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23239.0	0.0	23239.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.9	1.0
10°-20°	804.3	3.5
20°-30°	1554.1	6.7
30°-40°	2624.2	11.3
40°-50°	4161.6	17.9
50°-60°	5571.9	24.0
60°-70°	5302.7	22.8
70°-80°	2767.0	11.9
80°-90°	209.5	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°	23239.0	100.0
0°-180°	23239.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P949538

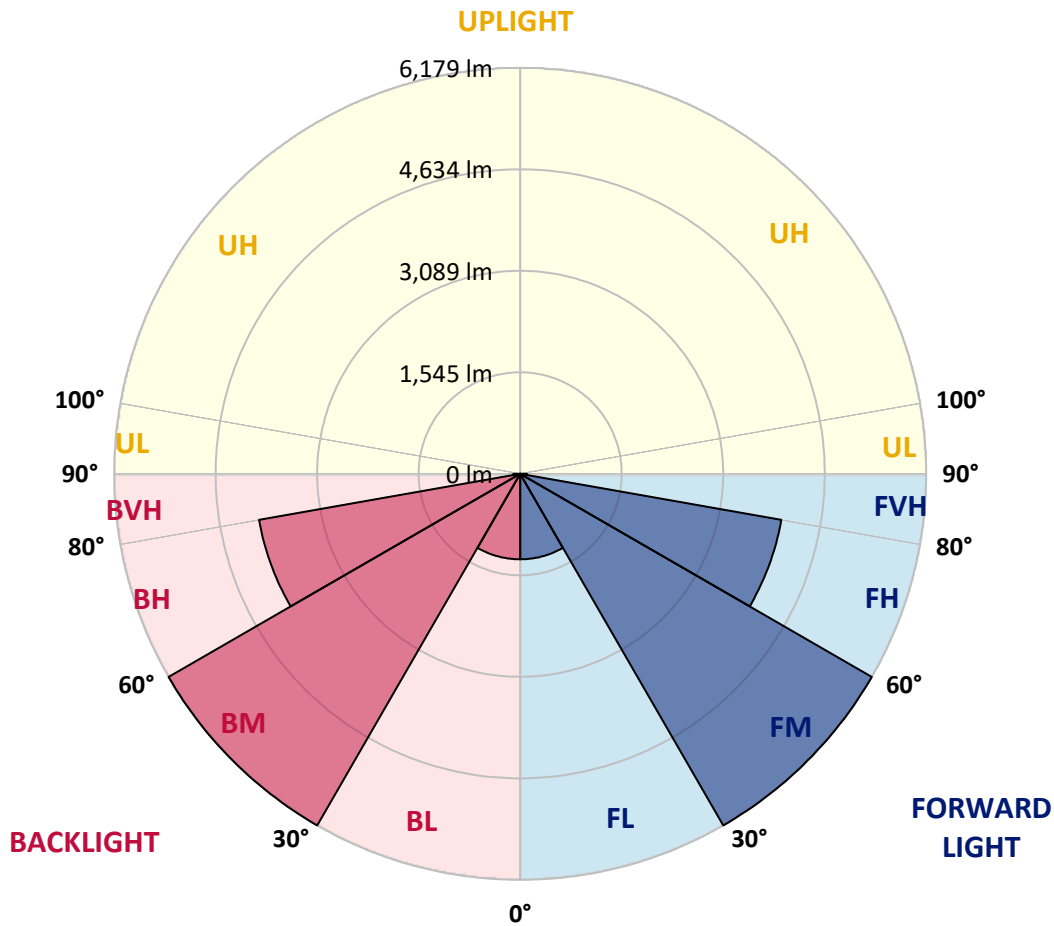
CATALOG NUMBER: GALN-SB4B-735-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.1	5.6			
FM (30°-60°)	6178.8	26.6			
FH (60°-80°)	4034.8	17.4			G2/5000
FVH (80°-90°)	104.7	0.5			G2/225
BL (0°-30°)	1301.1	5.6	B3/2500		
BM (30°-60°)	6178.8	26.6	B4/8500		
BH (60°-80°)	4034.8	17.4	B4/5000		G4/5000
BVH (80°-90°)	104.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Medium



REPORT NUMBER: P949538  
 CATALOG NUMBER: GALN-SB4B-735-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3
2.5°	2489.3	2486.9	2489.3	2491.7	2490.5	2490.5	2496.4	2500.0	2507.1	2505.9
5°	2472.7	2471.5	2481.0	2491.7	2500.0	2514.2	2532.0	2545.1	2561.7	2565.3
7.5°	2464.4	2460.8	2477.4	2496.4	2522.5	2558.1	2592.5	2628.1	2656.6	2666.1
10°	2470.3	2471.5	2494.1	2529.7	2571.2	2621.0	2669.7	2730.2	2770.5	2780.0
12.5°	2497.6	2495.2	2533.2	2590.2	2647.1	2710.0	2767.0	2833.4	2877.3	2899.8
15°	2547.5	2542.7	2596.1	2680.3	2763.4	2837.0	2883.2	2946.1	2997.1	3025.6
17.5°	2606.8	2609.2	2679.2	2788.3	2897.5	2980.5	3024.4	3056.5	3095.6	3120.5
20°	2711.2	2715.9	2794.2	2923.6	3048.2	3143.1	3178.7	3166.8	3177.5	3196.5
22.5°	2851.2	2853.6	2941.4	3081.4	3211.9	3316.3	3340.0	3291.4	3261.7	3274.8
25°	3013.8	3029.2	3117.0	3260.5	3394.6	3494.3	3505.0	3431.4	3357.8	3361.4
27.5°	3211.9	3226.1	3315.1	3457.5	3594.0	3680.6	3679.4	3580.9	3472.9	3445.6
30°	3426.7	3442.1	3533.4	3680.6	3807.5	3883.5	3866.9	3749.4	3595.1	3544.1
32.5°	3681.8	3691.3	3783.8	3930.9	4048.4	4108.9	4074.5	3929.7	3737.5	3679.4
35°	3990.3	4004.5	4073.3	4212.1	4315.4	4365.2	4307.1	4136.2	3920.3	3855.0
37.5°	4342.7	4333.2	4411.5	4534.9	4620.3	4651.1	4571.7	4368.8	4129.1	4052.0
40°	4710.5	4705.7	4791.2	4909.8	4956.1	4975.1	4857.6	4635.7	4369.9	4286.9
42.5°	5043.9	5040.3	5155.4	5287.1	5342.9	5321.5	5173.2	4919.3	4648.8	4553.9
45°	5310.9	5306.1	5447.3	5632.4	5741.6	5706.0	5506.6	5232.5	4931.2	4832.7
47.5°	5516.1	5518.5	5670.4	5899.4	6090.4	6103.4	5847.2	5551.7	5242.0	5130.5
50°	5664.4	5671.6	5834.1	6088.0	6349.1	6464.1	6194.8	5879.2	5563.6	5437.8
52.5°	5701.2	5714.3	5910.0	6207.9	6515.2	6734.7	6548.4	6193.6	5868.5	5748.7
55°	5505.4	5531.5	5779.5	6198.4	6617.2	6912.6	6859.3	6512.8	6175.8	6052.4
57.5°	5055.7	5092.5	5382.0	5929.0	6594.7	7034.9	7100.1	6818.9	6483.1	6364.5
60°	4425.7	4469.6	4747.3	5344.1	6276.7	7079.9	7269.8	7116.7	6765.5	6650.4
62.5°	3475.3	3532.3	3864.5	4564.5	5605.1	6869.9	7414.5	7386.1	7019.4	6875.9
65°	2229.5	2290.0	2640.0	3467.0	4709.3	6226.8	7459.6	7648.3	7287.6	7087.1
67.5°	1344.3	1371.6	1544.8	2101.3	3442.1	5257.5	7077.6	7939.0	7600.8	7351.7
70°	860.2	875.6	978.9	1234.0	1945.9	3836.0	6130.7	7993.6	7980.5	7623.4
72.5°	583.8	588.5	615.8	730.9	1101.1	2179.6	4521.8	7236.6	8217.8	7973.4
75°	427.1	453.2	497.2	517.3	625.3	1089.2	2591.4	5084.2	6925.7	7032.5
77.5°	318.0	319.2	379.7	403.4	446.1	580.2	1096.3	2838.1	4299.9	4514.7
80°	269.3	255.1	253.9	325.1	335.8	361.9	490.0	980.1	1540.1	933.8
82.5°	224.3	208.8	188.7	253.9	229.0	221.9	212.4	398.7	490.0	240.9
85°	156.6	149.5	142.4	166.1	130.5	111.5	102.0	186.3	206.5	102.0
87.5°	67.6	70.0	71.2	73.6	54.6	39.2	39.2	52.2	52.2	40.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2489.3
2504.7
2565.3
2668.5
2789.5
2909.3
3036.3
3132.4
3210.7
3284.3
3367.3
3454.0
3550.1
3693.6
3864.5
4066.2
4314.2
4577.6
4855.2
5163.7
5475.8
5779.5
6086.8
6391.8
6675.3
6892.5
7112.0
7370.6
7621.0
7935.4
6773.8
4027.0
706.0
205.3
90.2
29.7
0.0

OF REPORT)