

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: P949580

Luminaire Tested: **GALN-SB4B-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949580
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-750-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24587 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

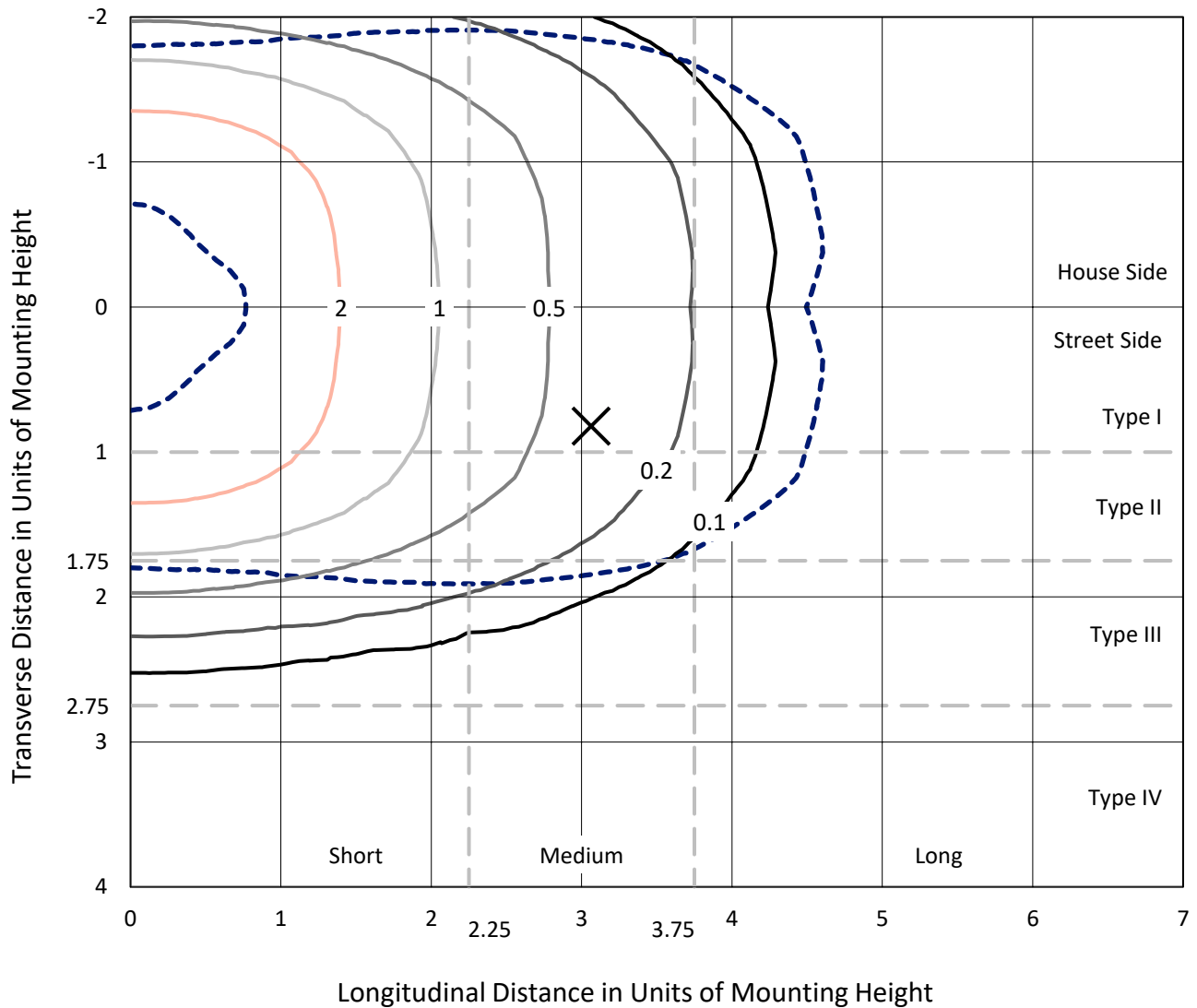
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

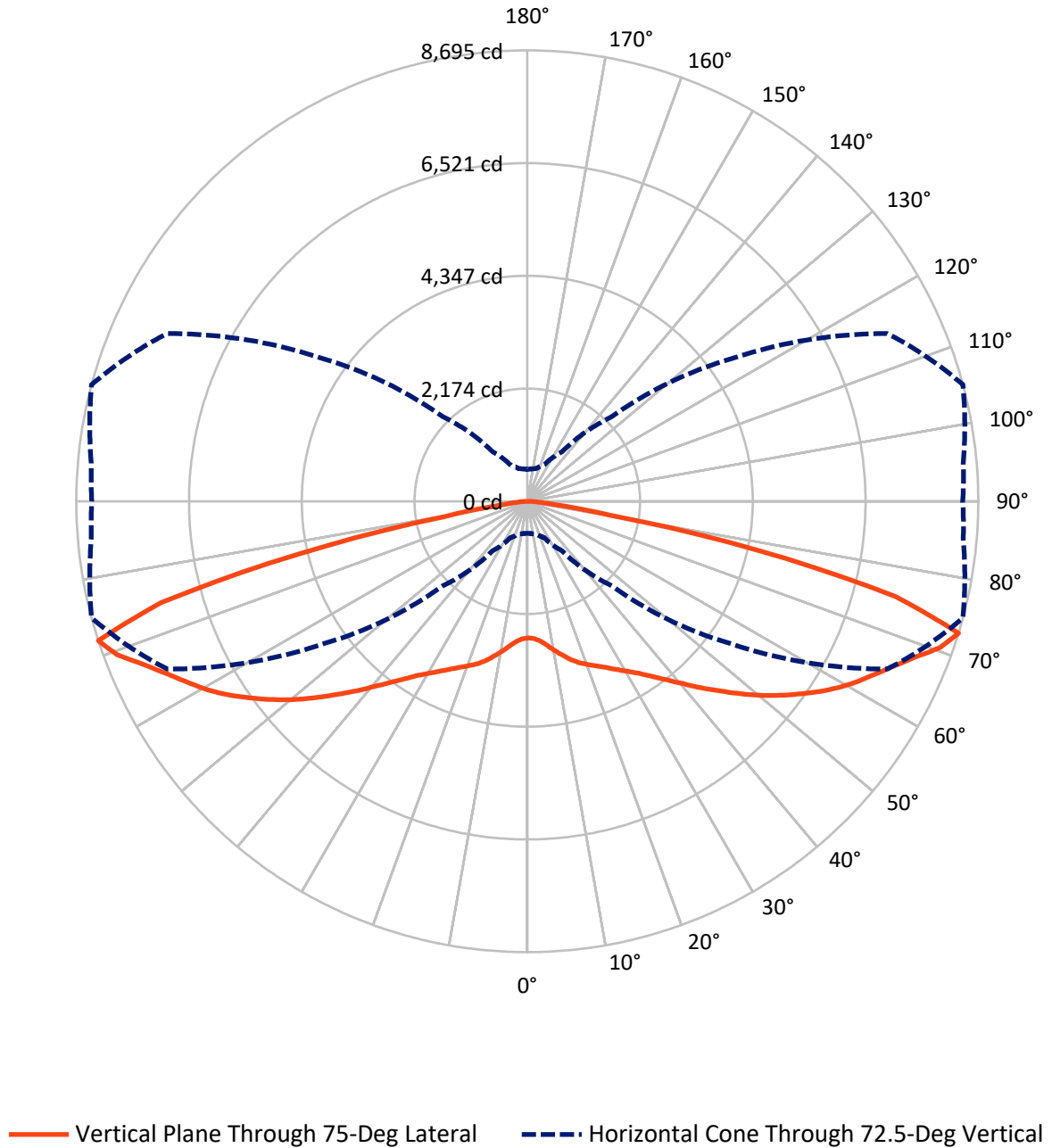
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12293.5	0.0	12293.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12293.5	0.0	12293.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24587.0	0.0	24587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	1.0
10°-20°	850.9	3.5
20°-30°	1644.2	6.7
30°-40°	2776.4	11.3
40°-50°	4403.0	17.9
50°-60°	5895.1	24.0
60°-70°	5610.2	22.8
70°-80°	2927.5	11.9
80°-90°	221.6	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°	24587.0	100.0
0°-180°	24587.0	100.0

Coefficient of Utilization



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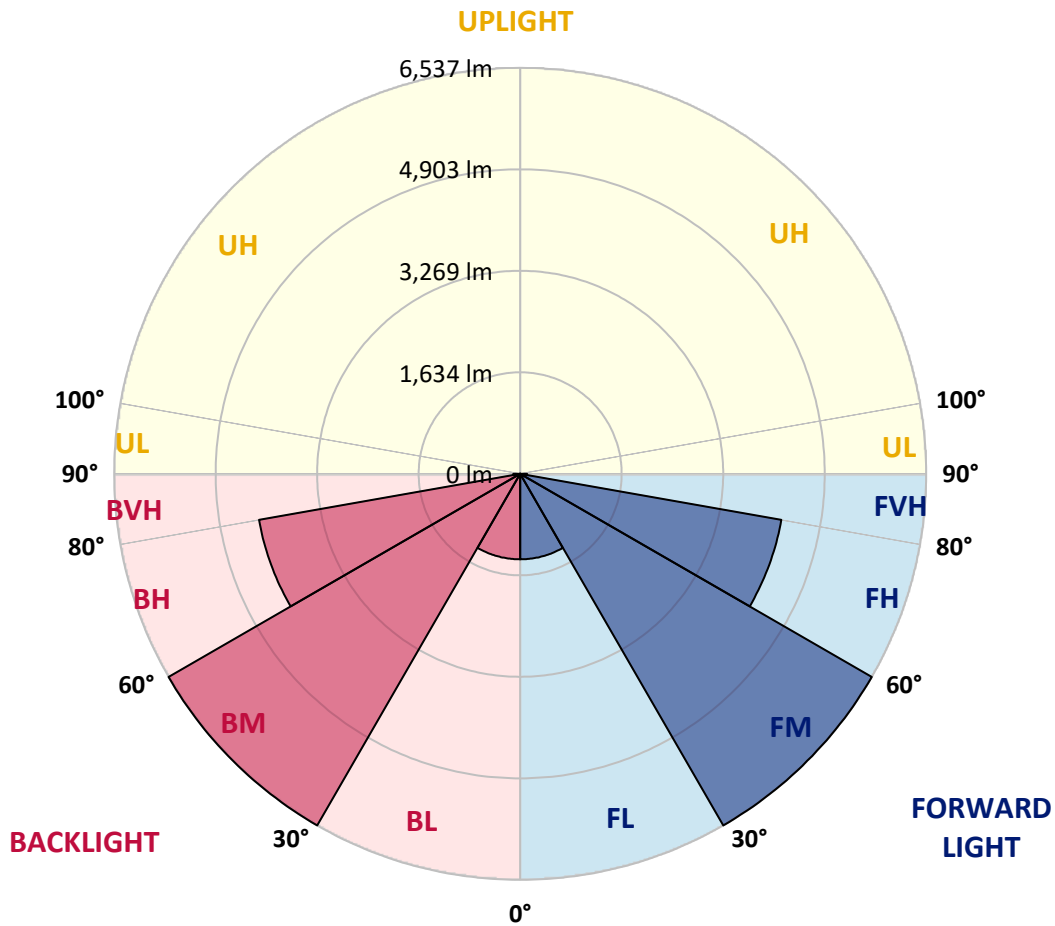
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.6	5.6			
FM (30°-60°)	6537.2	26.6			
FH (60°-80°)	4268.9	17.4			G2/5000
FVH (80°-90°)	110.8	0.5			G2/225
BL (0°-30°)	1376.6	5.6	B3/2500		
BM (30°-60°)	6537.2	26.6	B4/8500		
BH (60°-80°)	4268.9	17.4	B4/5000		G4/5000
BVH (80°-90°)	110.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2633.7	2633.7	2633.7	2633.7	2633.7	2633.7	2633.7	2633.7	2633.7	2633.7
2.5°	2633.7	2631.2	2633.7	2636.2	2635.0	2635.0	2641.2	2645.0	2652.5	2651.3
5°	2616.1	2614.9	2624.9	2636.2	2645.0	2660.1	2678.9	2692.7	2710.3	2714.0
7.5°	2607.3	2603.6	2621.2	2641.2	2668.9	2706.5	2742.9	2780.6	2810.7	2820.8
10°	2613.6	2614.9	2638.7	2676.4	2720.3	2773.1	2824.5	2888.5	2931.2	2941.3
12.5°	2642.5	2640.0	2680.2	2740.4	2800.7	2867.2	2927.5	2997.8	3044.2	3068.1
15°	2695.2	2690.2	2746.7	2835.8	2923.7	3001.5	3050.5	3117.0	3171.0	3201.1
17.5°	2758.0	2760.5	2834.6	2950.1	3065.5	3153.4	3199.9	3233.8	3275.2	3301.5
20°	2868.5	2873.5	2956.3	3093.2	3225.0	3325.4	3363.1	3350.5	3361.8	3381.9
22.5°	3016.6	3019.1	3112.0	3260.1	3398.2	3508.7	3533.8	3482.3	3450.9	3464.7
25°	3188.6	3204.9	3297.8	3449.7	3591.5	3697.0	3708.3	3630.4	3552.6	3556.4
27.5°	3398.2	3413.3	3507.4	3658.1	3802.4	3894.1	3892.8	3788.6	3674.4	3645.5
30°	3625.4	3641.7	3738.4	3894.1	4028.4	4108.7	4091.2	3966.9	3803.7	3749.7
32.5°	3895.3	3905.4	4003.3	4158.9	4283.2	4347.2	4310.8	4157.7	3954.3	3892.8
35°	4221.7	4236.8	4309.6	4456.5	4565.7	4618.4	4556.9	4376.1	4147.7	4078.6
37.5°	4594.6	4584.5	4667.4	4797.9	4888.3	4920.9	4836.8	4622.2	4368.6	4287.0
40°	4983.7	4978.7	5069.1	5194.6	5243.6	5263.6	5139.4	4904.6	4623.4	4535.6
42.5°	5336.5	5332.7	5454.5	5593.8	5652.8	5630.2	5473.3	5204.6	4918.4	4818.0
45°	5618.9	5613.9	5763.3	5959.1	6074.6	6036.9	5826.0	5536.1	5217.2	5113.0
47.5°	5836.1	5838.6	5999.3	6241.6	6443.7	6457.5	6186.3	5873.7	5546.1	5428.1
50°	5993.0	6000.5	6172.5	6441.2	6717.3	6839.1	6554.1	6220.2	5886.3	5753.2
52.5°	6031.9	6045.7	6252.9	6568.0	6893.1	7125.3	6928.2	6552.9	6208.9	6082.1
55°	5824.8	5852.4	6114.8	6557.9	7001.0	7313.6	7257.1	6890.6	6534.1	6403.5
57.5°	5349.0	5387.9	5694.2	6272.9	6977.2	7442.9	7512.0	7214.5	6859.2	6733.7
60°	4682.4	4728.9	5022.6	5654.1	6640.8	7490.6	7691.5	7529.5	7158.0	7036.2
62.5°	3676.9	3737.2	4088.6	4829.3	5930.2	7268.4	7844.6	7814.5	7426.6	7274.7
65°	2358.8	2422.8	2793.1	3668.1	4982.5	6588.0	7892.3	8091.9	7710.3	7498.2
67.5°	1422.3	1451.2	1634.5	2223.2	3641.7	5562.4	7488.1	8399.5	8041.7	7778.1
70°	910.1	926.4	1035.7	1305.6	2058.8	4058.5	6486.4	8457.2	8443.4	8065.6
72.5°	617.6	622.6	651.5	773.3	1165.0	2306.1	4784.1	7656.3	8694.5	8435.9
75°	451.9	479.5	526.0	547.3	661.6	1152.4	2741.7	5379.1	7327.4	7440.4
77.5°	336.4	337.7	401.7	426.8	472.0	613.9	1159.9	3002.8	4549.4	4776.6
80°	285.0	269.9	268.6	344.0	355.3	382.9	518.5	1036.9	1629.4	988.0
82.5°	237.3	220.9	199.6	268.6	242.3	234.7	224.7	421.8	518.5	254.8
85°	165.7	158.2	150.6	175.7	138.1	118.0	108.0	197.1	218.4	108.0
87.5°	71.6	74.1	75.3	77.8	57.7	41.4	41.4	55.2	55.2	42.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2633.7
2650.0
2714.0
2823.3
2951.3
3078.1
3212.4
3314.1
3397.0
3474.8
3562.7
3654.3
3756.0
3907.9
4088.6
4302.1
4564.4
4843.1
5136.9
5463.2
5793.4
6114.8
6439.9
6762.5
7062.6
7292.3
7524.5
7798.2
8063.1
8395.7
7166.7
4260.6
746.9
217.2
95.4
31.4
0.0

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