

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: P949535

Luminaire Tested: **GALN-SB4B-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23649 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

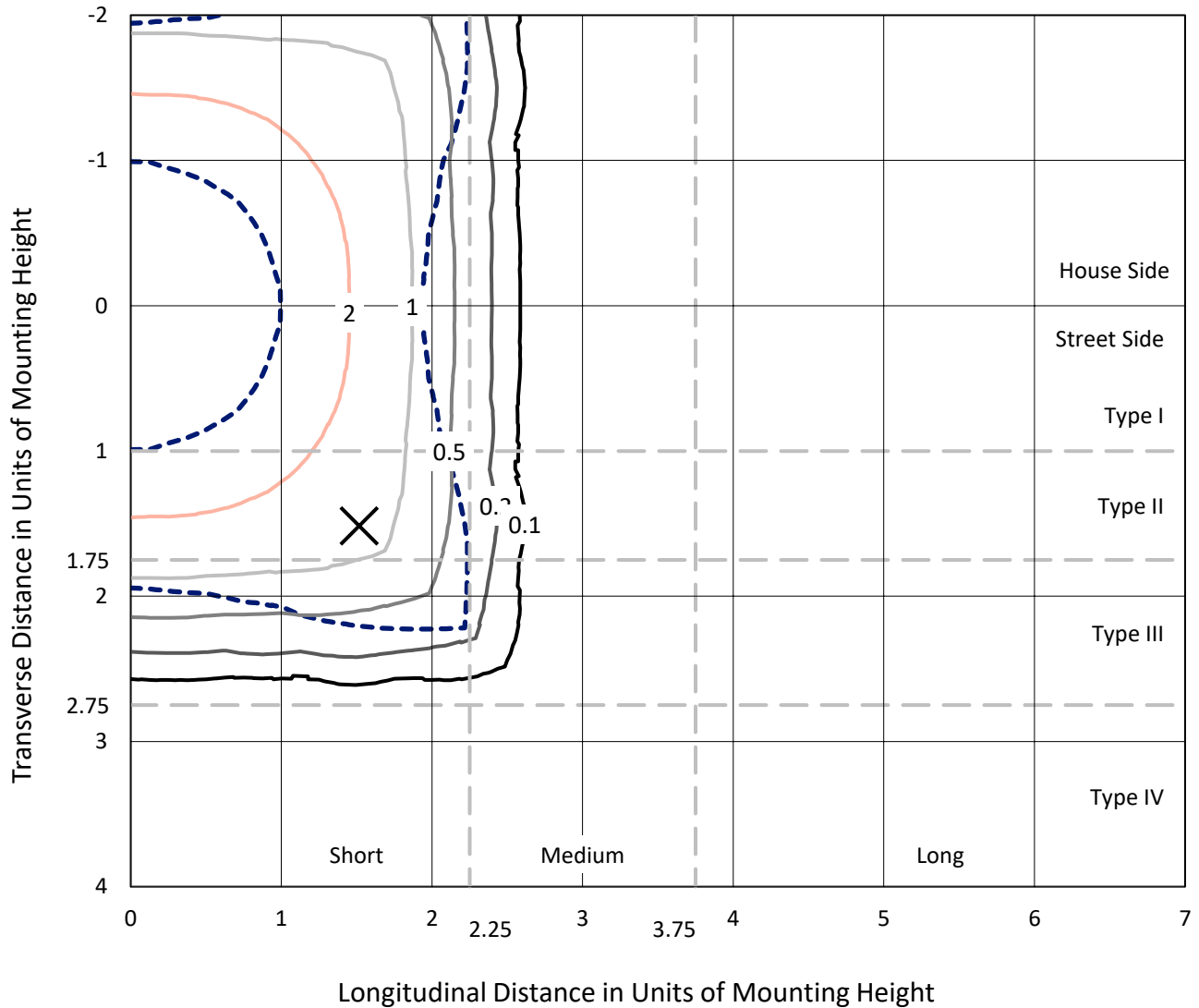
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

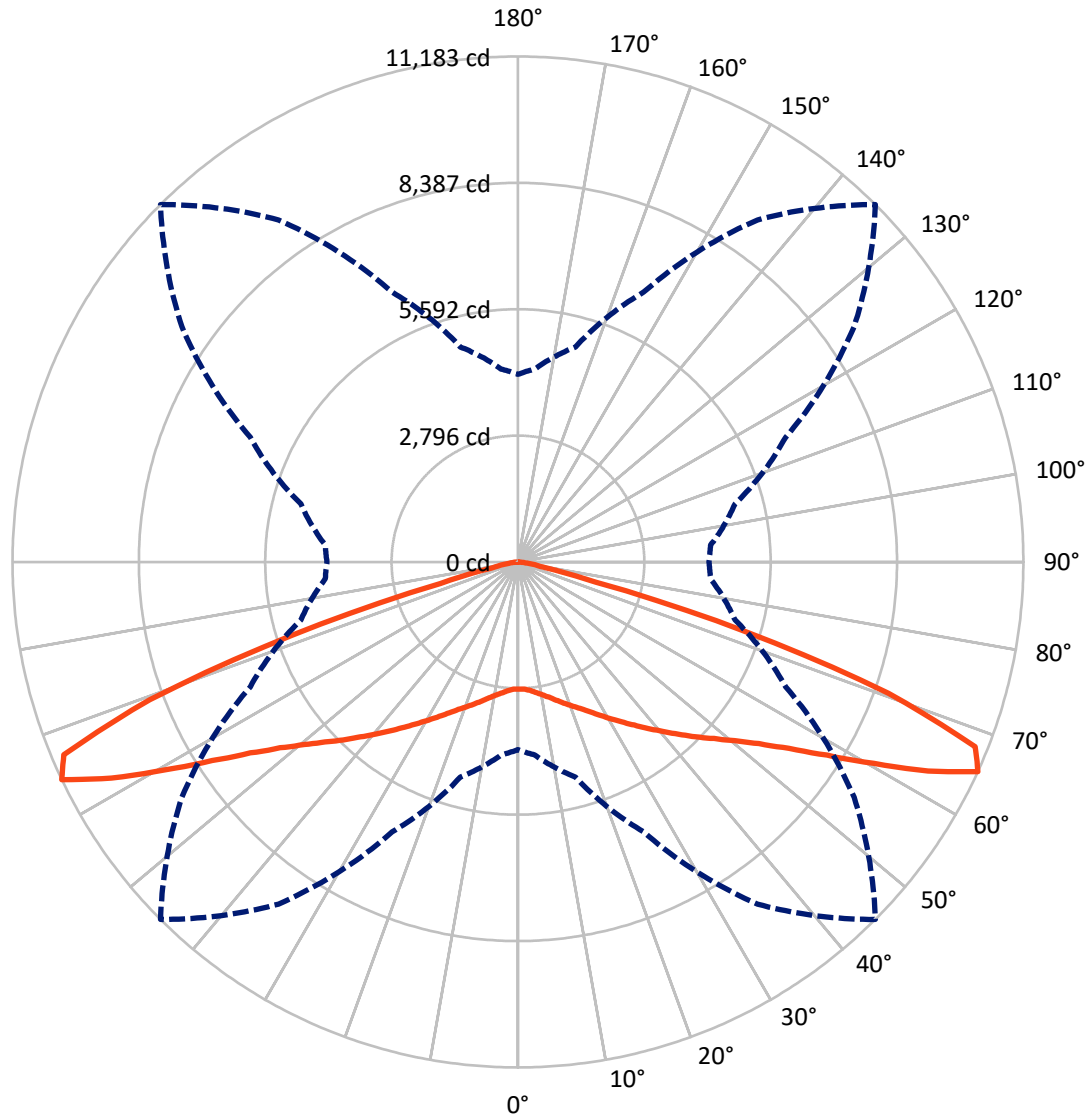
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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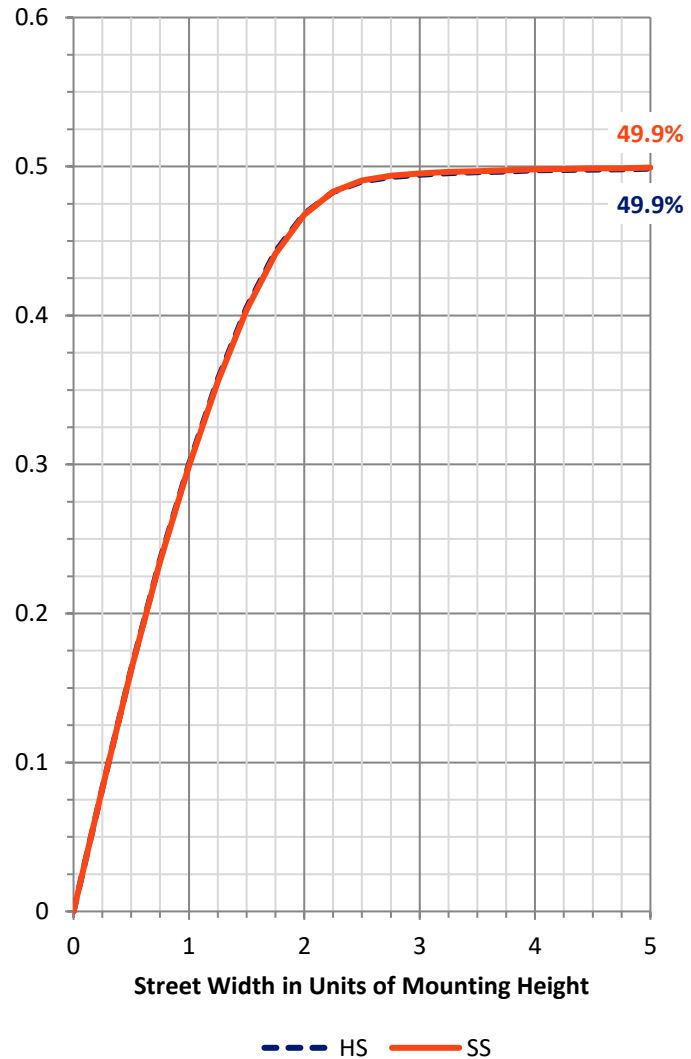
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11824.5	0.0	11824.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11824.5	0.0	11824.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23649.0	0.0	23649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.2
10°-20°	906.4	3.8
20°-30°	1711.3	7.2
30°-40°	2802.2	11.8
40°-50°	4344.8	18.4
50°-60°	6418.2	27.1
60°-70°	6109.6	25.8
70°-80°	985.9	4.2
80°-90°	92.9	0.4
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°	23649.0	100.0
0°-180°	23649.0	100.0

Coefficient of Utilization



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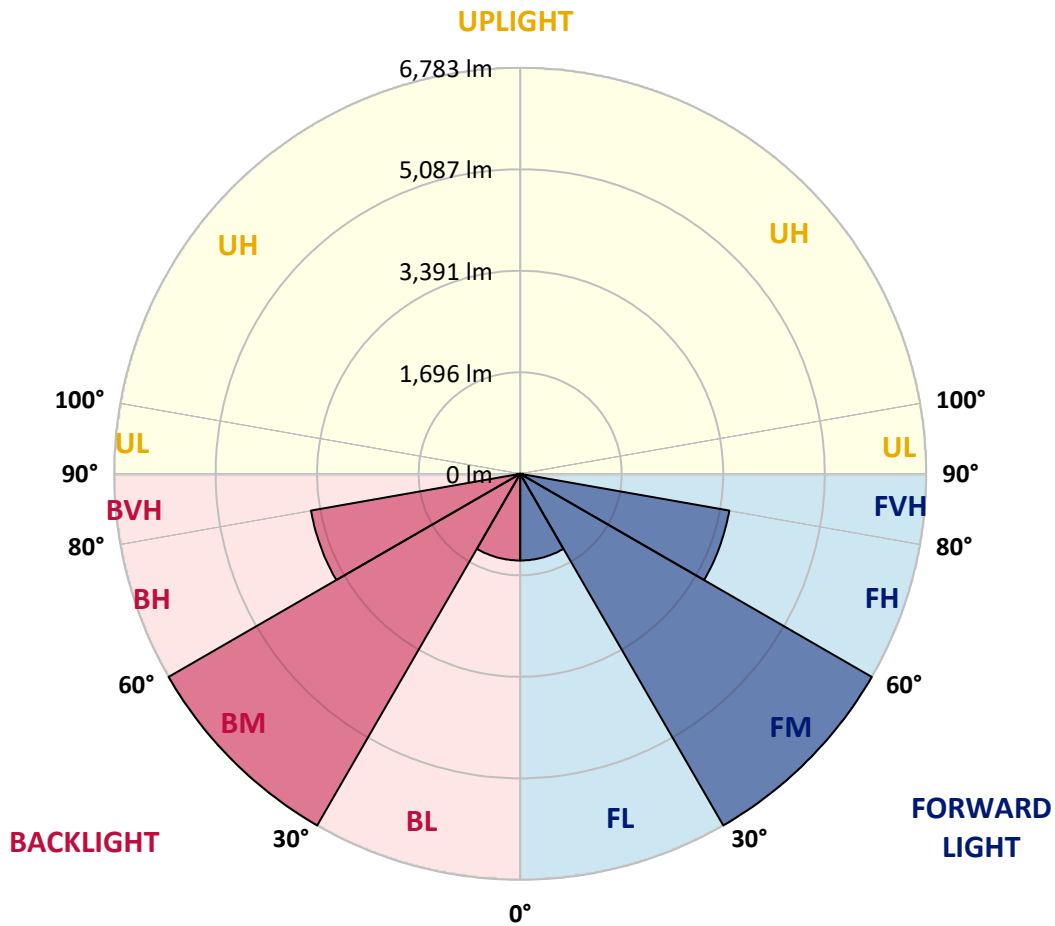
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.7	6.1			
FM (30°-60°)	6782.6	28.7			
FH (60°-80°)	3547.7	15.0			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	1447.7	6.1	B3/2500		
BM (30°-60°)	6782.6	28.7	B4/8500		
BH (60°-80°)	3547.7	15.0	B4/5000		G2/5000
BVH (80°-90°)	46.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	2833.5	2824.0	2831.1	2825.1	2820.4	2815.7	2818.0	2826.3	2829.9	2831.1
5°	2871.4	2863.1	2866.7	2866.7	2858.4	2856.0	2857.2	2863.1	2870.2	2870.2
7.5°	2933.1	2924.8	2933.1	2928.4	2921.3	2918.9	2917.7	2922.4	2933.1	2933.1
10°	3007.9	2998.4	3003.1	3000.8	2992.4	2988.9	2987.7	2994.8	3004.3	3003.1
12.5°	3089.7	3079.1	3085.0	3077.9	3075.5	3071.9	3071.9	3070.8	3076.7	3071.9
15°	3181.1	3174.0	3176.4	3171.6	3175.2	3172.8	3163.3	3158.6	3160.9	3153.8
17.5°	3289.1	3272.5	3280.8	3278.4	3278.4	3283.1	3267.7	3261.8	3266.5	3259.4
20°	3413.7	3397.1	3400.6	3395.9	3389.9	3394.7	3375.7	3380.4	3384.0	3379.3
22.5°	3550.1	3528.8	3527.6	3529.9	3516.9	3518.1	3505.0	3516.9	3524.0	3511.0
25°	3690.1	3667.6	3683.0	3677.1	3660.5	3664.0	3654.5	3666.4	3672.3	3655.7
27.5°	3838.4	3823.0	3837.3	3840.8	3820.7	3834.9	3820.7	3831.3	3837.3	3812.3
30°	4011.7	3996.3	4009.3	4018.8	3995.1	4017.6	4005.8	4012.9	4014.1	3984.4
32.5°	4200.3	4176.6	4209.8	4214.6	4188.5	4215.8	4200.3	4209.8	4215.8	4175.4
35°	4430.5	4400.9	4438.8	4432.9	4410.4	4432.9	4418.7	4432.9	4447.1	4398.5
37.5°	4678.5	4647.7	4688.0	4677.3	4656.0	4671.4	4663.1	4672.6	4695.1	4642.9
40°	4951.4	4913.5	4968.0	4949.0	4928.9	4926.5	4931.3	4937.2	4966.8	4908.7
42.5°	5243.3	5203.0	5284.8	5255.2	5226.7	5207.7	5223.1	5235.0	5263.5	5198.2
45°	5576.7	5530.5	5637.2	5601.6	5556.6	5517.4	5542.3	5560.1	5601.6	5523.3
47.5°	5944.6	5892.3	6006.3	5995.6	5922.0	5836.6	5893.5	5944.6	5975.4	5880.5
50°	6304.1	6263.7	6413.2	6426.3	6336.1	6216.3	6295.8	6372.9	6381.2	6256.6
52.5°	6641.1	6600.7	6817.8	6899.7	6819.0	6676.6	6760.9	6839.2	6776.3	6614.9
55°	6910.4	6877.2	7153.6	7364.8	7392.1	7274.7	7324.5	7322.1	7115.7	6867.7
57.5°	6975.7	6970.9	7319.8	7767.1	8051.8	8066.1	7967.6	7716.1	7271.1	6937.7
60°	6679.0	6708.7	7188.0	7977.1	8736.5	9052.1	8626.1	7908.3	7094.3	6631.6
62.5°	5791.5	5869.8	6447.6	7720.8	9289.4	10186.4	9154.1	7616.4	6368.1	5764.2
65°	4150.5	4287.0	4925.3	6588.8	9239.6	11183.1	9078.2	6535.4	4972.8	4276.3
67.5°	1883.0	2021.9	2564.1	4511.2	8031.7	10912.6	8012.7	4558.7	2692.3	2029.0
70°	682.3	706.0	880.4	1805.9	5133.0	8694.9	5352.5	1819.0	936.2	752.3
72.5°	412.9	416.5	453.3	646.7	1783.4	5278.9	1859.3	668.0	462.7	410.5
75°	262.2	259.9	322.7	395.1	632.4	1781.0	663.3	395.1	321.6	293.1
77.5°	188.7	194.6	231.4	295.4	398.7	603.9	391.6	282.4	231.4	189.8
80°	141.2	144.8	168.5	230.2	280.0	376.1	249.2	208.8	174.4	118.7
82.5°	102.0	102.0	110.3	167.3	170.9	202.9	135.3	147.1	115.1	84.2
85°	60.5	59.3	68.8	99.7	89.0	74.8	61.7	90.2	72.4	52.2
87.5°	21.4	22.5	21.4	28.5	23.7	20.2	19.0	24.9	20.2	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2814.5
2831.1
2870.2
2929.6
3000.8
3074.3
3155.0
3265.4
3389.9
3524.0
3674.7
3831.3
4002.2
4202.7
4428.2
4675.0
4927.7
5232.6
5563.7
5912.5
6272.0
6619.7
6876.0
6916.3
6577.0
5728.6
4225.3
1999.3
742.8
417.7
295.4
193.4
122.2
84.2
51.0
16.6
0.0

OF REPORT)