

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: P949181

Luminaire Tested: **GALN-SB4A-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949181
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-SB4A-735-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18513 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

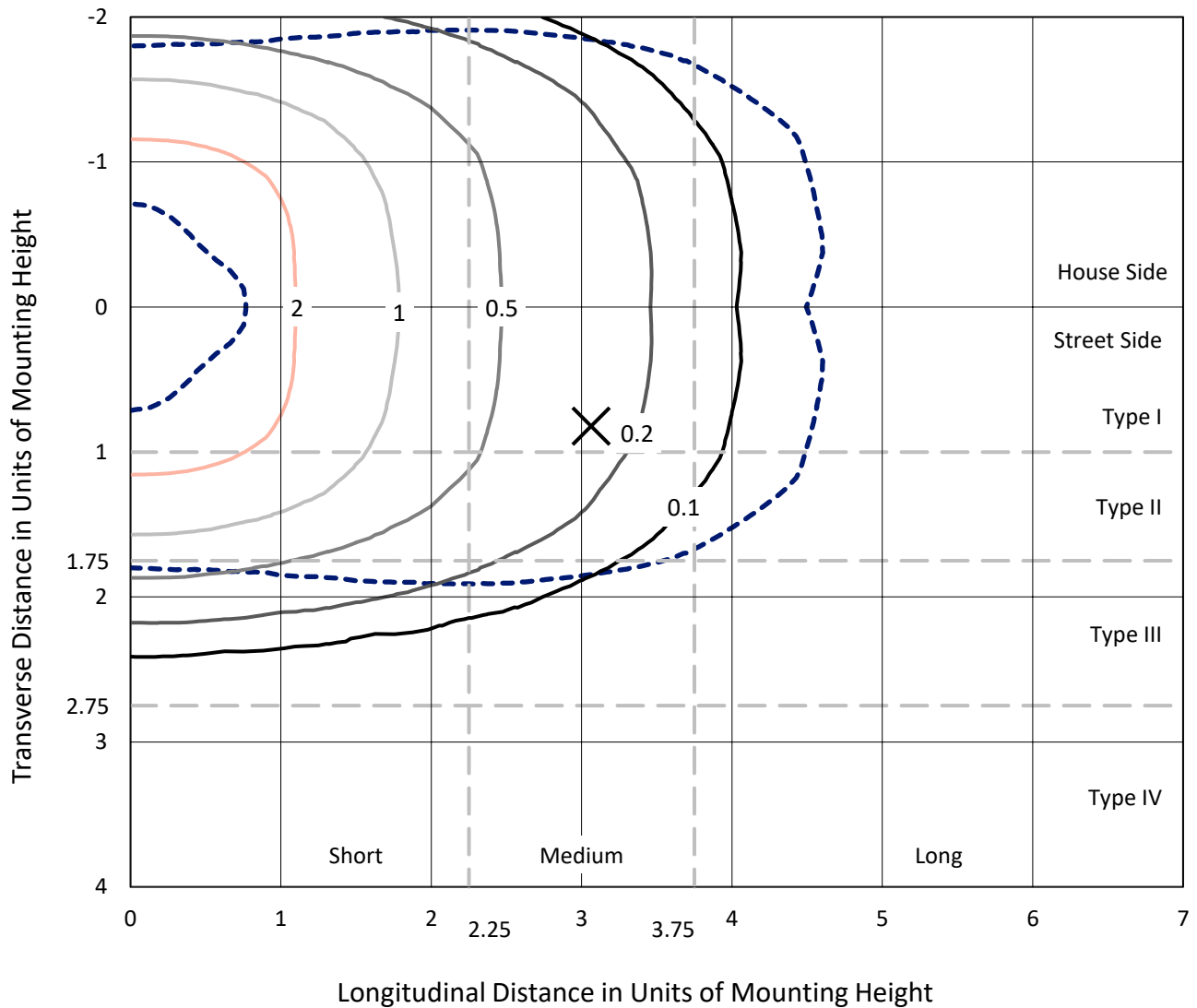
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

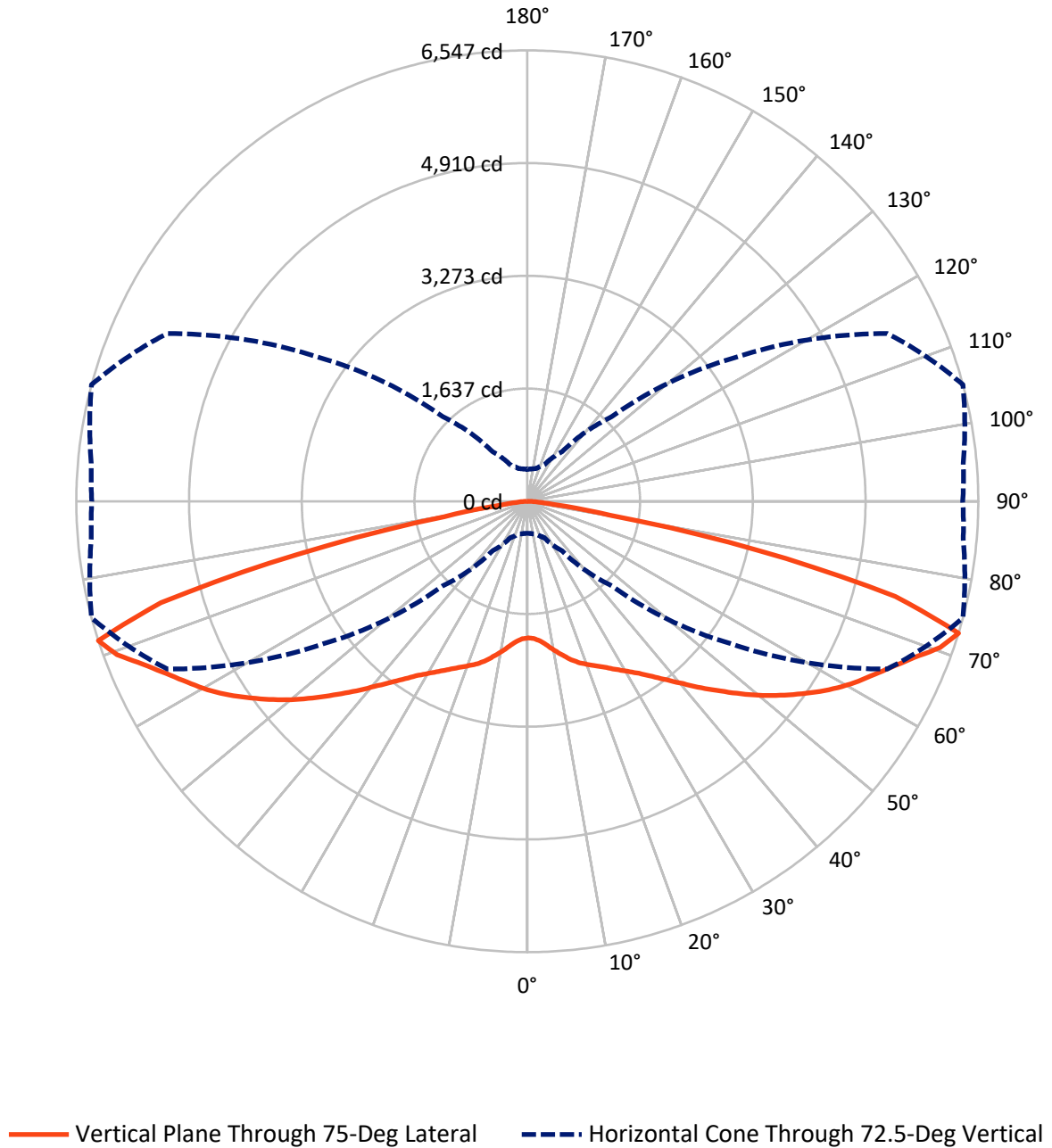
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P949181
CATALOG NUMBER: GALN-SB4A-735-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.5	0.0	9256.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9256.5	0.0	9256.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18513.0	0.0	18513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	1.0
10°-20°	640.7	3.5
20°-30°	1238.0	6.7
30°-40°	2090.5	11.3
40°-50°	3315.3	17.9
50°-60°	4438.8	24.0
60°-70°	4224.3	22.8
70°-80°	2204.3	11.9
80°-90°	166.9	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°	18513.0	100.0
0°-180°	18513.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949181

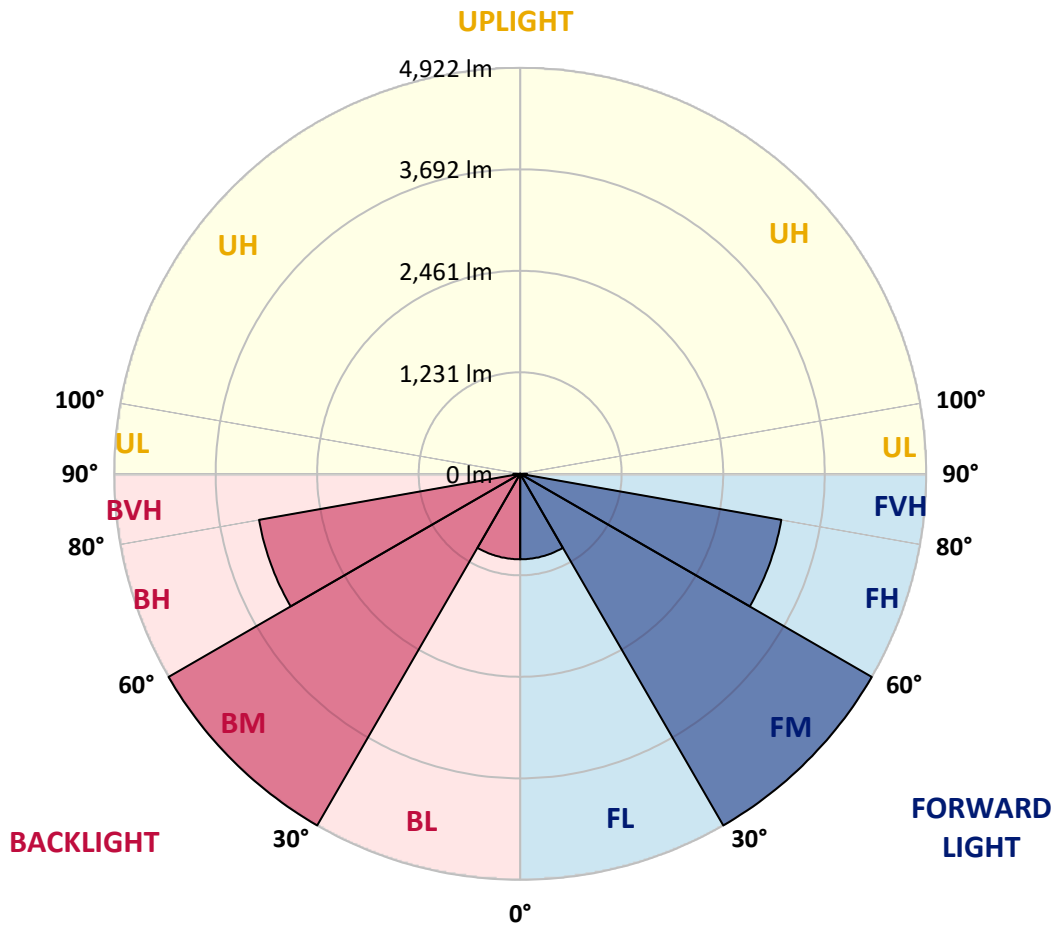
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.5	5.6			
FM (30°-60°)	4922.3	26.6			
FH (60°-80°)	3214.3	17.4			G2/5000
FVH (80°-90°)	83.4	0.5			G1/100
BL (0°-30°)	1036.5	5.6	B3/2500		
BM (30°-60°)	4922.3	26.6	B3/5000		
BH (60°-80°)	3214.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	83.4	0.5			G1/100
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°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1983.1	1981.2	1983.1	1985.0	1984.0	1984.0	1988.7	1991.6	1997.3	1996.3
5°	1969.8	1968.9	1976.5	1985.0	1991.6	2002.9	2017.1	2027.5	2040.7	2043.6
7.5°	1963.2	1960.4	1973.6	1988.7	2009.5	2037.9	2065.3	2093.7	2116.3	2123.9
10°	1968.0	1968.9	1986.9	2015.2	2048.3	2088.0	2126.7	2175.0	2207.1	2214.7
12.5°	1989.7	1987.8	2018.0	2063.4	2108.8	2158.9	2204.3	2257.2	2292.2	2310.1
15°	2029.4	2025.6	2068.1	2135.3	2201.4	2260.0	2296.9	2347.0	2387.6	2410.3
17.5°	2076.7	2078.5	2134.3	2221.3	2308.2	2374.4	2409.4	2434.9	2466.1	2485.9
20°	2159.8	2163.6	2226.0	2329.0	2428.3	2503.9	2532.2	2522.8	2531.3	2546.4
22.5°	2271.4	2273.3	2343.2	2454.7	2558.7	2641.9	2660.8	2622.0	2598.4	2608.8
25°	2400.9	2413.1	2483.1	2597.5	2704.3	2783.7	2792.2	2733.6	2675.0	2677.8
27.5°	2558.7	2570.1	2640.9	2754.4	2863.1	2932.1	2931.1	2852.7	2766.7	2744.9
30°	2729.8	2742.1	2814.9	2932.1	3033.2	3093.7	3080.5	2986.9	2864.0	2823.4
32.5°	2933.0	2940.6	3014.3	3131.5	3225.1	3273.3	3245.9	3130.6	2977.4	2931.1
35°	3178.8	3190.1	3244.9	3355.5	3437.8	3477.5	3431.2	3295.0	3123.0	3071.0
37.5°	3459.5	3451.9	3514.3	3612.6	3680.7	3705.3	3641.9	3480.3	3289.4	3227.9
40°	3752.5	3748.7	3816.8	3911.3	3948.2	3963.3	3869.7	3693.0	3481.2	3415.1
42.5°	4018.1	4015.3	4107.0	4211.9	4256.3	4239.3	4121.2	3918.9	3703.4	3627.8
45°	4230.8	4227.0	4339.5	4487.0	4573.9	4545.6	4386.8	4168.4	3928.3	3849.9
47.5°	4394.3	4396.2	4517.2	4699.6	4851.8	4862.2	4658.0	4422.7	4176.0	4087.1
50°	4512.5	4518.2	4647.7	4849.9	5057.9	5149.6	4935.0	4683.6	4432.1	4331.9
52.5°	4541.8	4552.2	4708.1	4945.4	5190.2	5365.1	5216.7	4934.1	4675.1	4579.6
55°	4385.8	4406.6	4604.2	4937.8	5271.5	5506.9	5464.3	5188.3	4919.9	4821.6
57.5°	4027.6	4056.9	4287.5	4723.3	5253.5	5604.2	5656.2	5432.2	5164.7	5070.2
60°	3525.7	3560.6	3781.8	4257.3	5000.2	5640.1	5791.4	5669.4	5389.7	5298.0
62.5°	2768.6	2813.9	3078.6	3636.3	4465.2	5472.8	5906.7	5884.0	5591.9	5477.6
65°	1776.1	1824.3	2103.1	2761.9	3751.6	4960.5	5942.6	6092.9	5805.5	5645.8
67.5°	1070.9	1092.7	1230.7	1674.0	2742.1	4188.3	5638.2	6324.5	6055.1	5856.6
70°	685.3	697.6	779.8	983.0	1550.2	3055.9	4884.0	6368.0	6357.6	6073.0
72.5°	465.0	468.8	490.6	582.3	877.2	1736.4	3602.2	5764.9	6546.6	6351.9
75°	340.3	361.1	396.0	412.1	498.1	867.7	2064.4	4050.3	5517.3	5602.3
77.5°	253.3	254.3	302.5	321.4	355.4	462.2	873.4	2261.0	3425.5	3596.6
80°	214.6	203.2	202.3	259.0	267.5	288.3	390.4	780.8	1226.9	743.9
82.5°	178.6	166.4	150.3	202.3	182.4	176.8	169.2	317.6	390.4	191.9
85°	124.8	119.1	113.4	132.3	104.0	88.9	81.3	148.4	164.5	81.3
87.5°	53.9	55.8	56.7	58.6	43.5	31.2	31.2	41.6	41.6	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1983.1
1995.4
2043.6
2125.8
2222.2
2317.7
2418.8
2495.4
2557.8
2616.4
2682.5
2751.5
2828.1
2942.5
3078.6
3239.3
3436.8
3646.7
3867.8
4113.6
4362.2
4604.2
4849.0
5091.9
5317.8
5490.8
5665.7
5871.7
6071.2
6321.6
5396.3
3208.1
562.4
163.5
71.8
23.6
0.0

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