

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: P949766

Luminaire Tested: **GALN-SB4B-935-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949766
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-935-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 16451 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

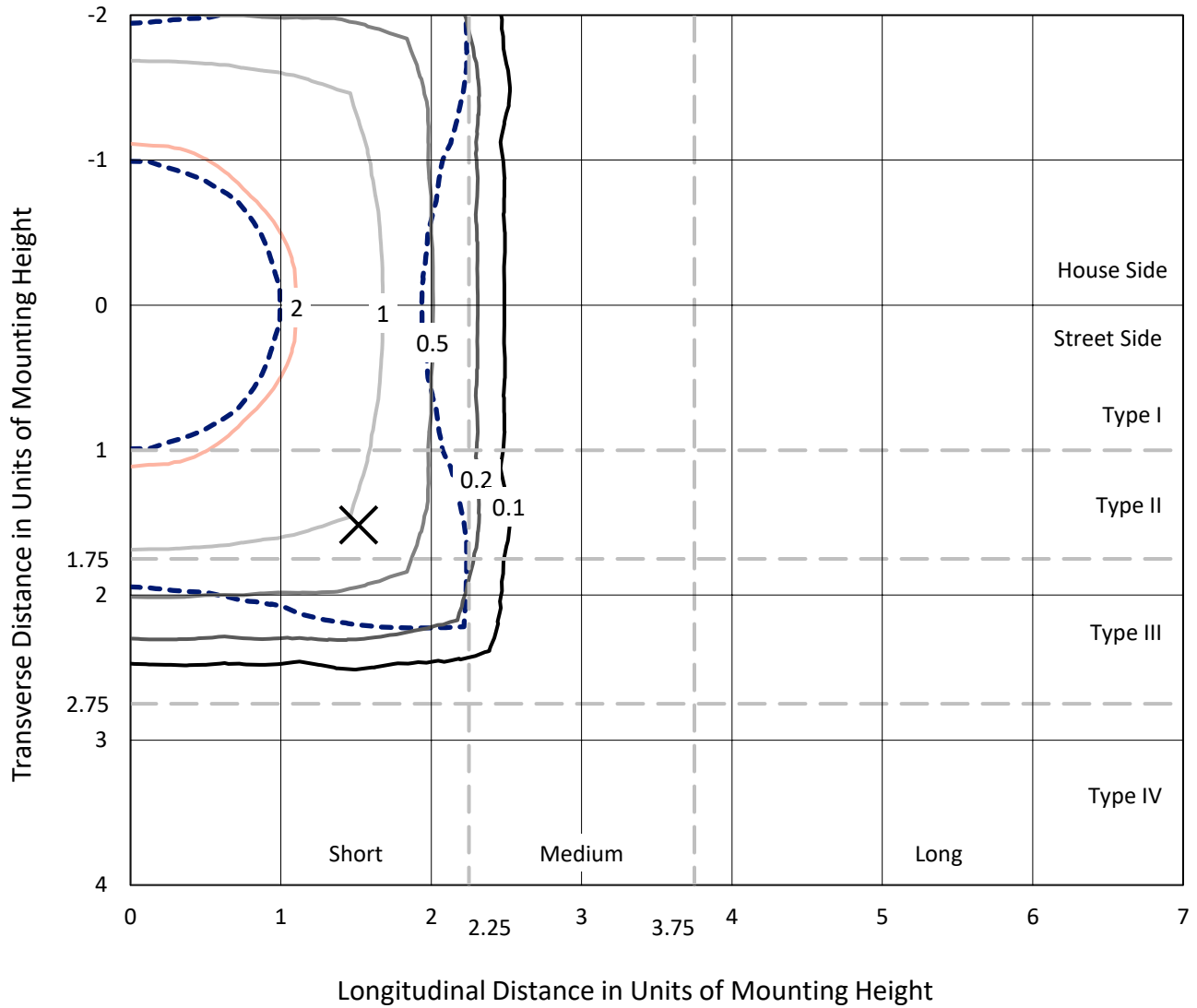
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

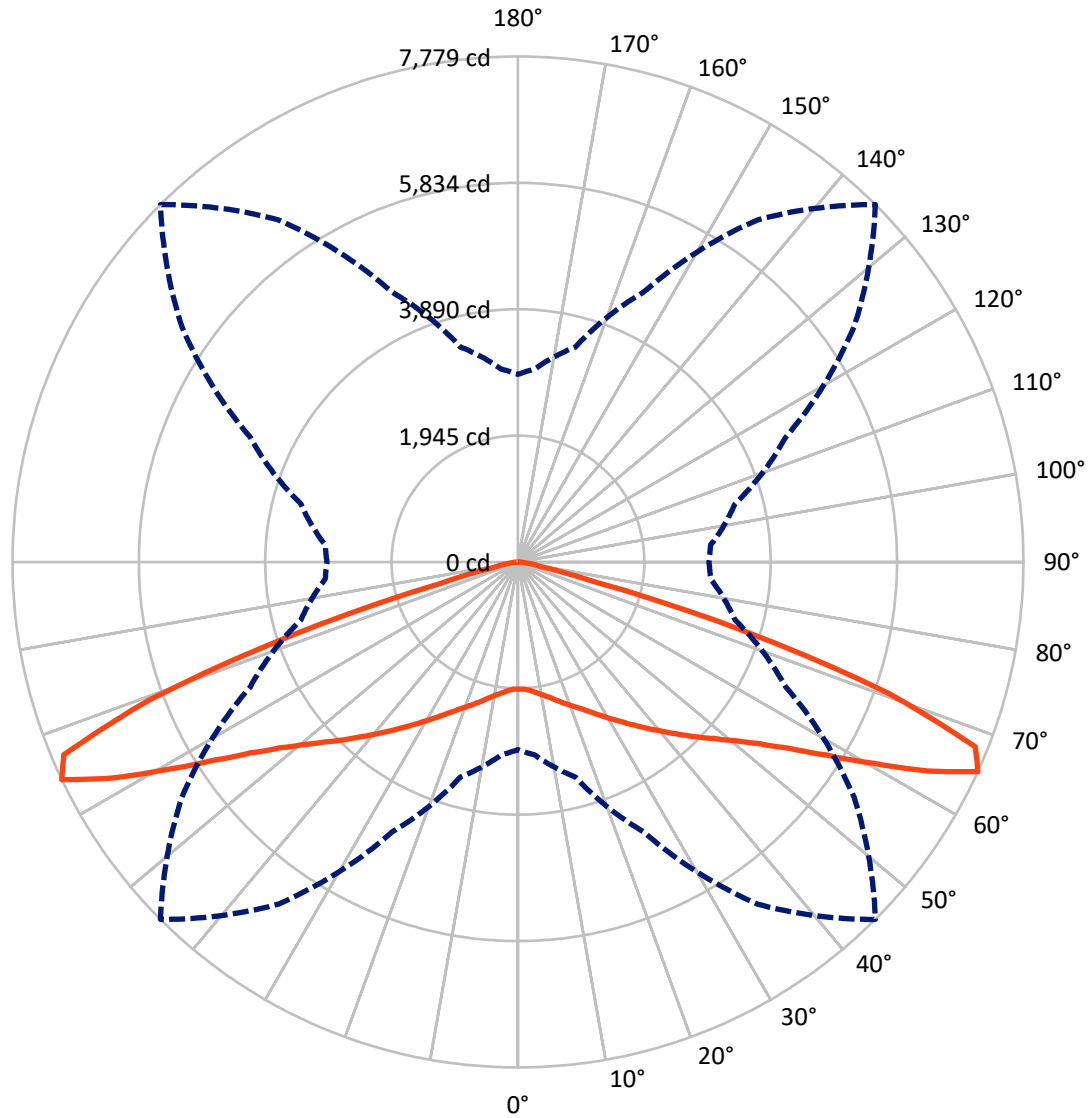
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8225.5	0.0	8225.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8225.5	0.0	8225.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16451.0	0.0	16451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.2
10°-20°	630.5	3.8
20°-30°	1190.4	7.2
30°-40°	1949.3	11.8
40°-50°	3022.4	18.4
50°-60°	4464.7	27.1
60°-70°	4250.0	25.8
70°-80°	685.8	4.2
80°-90°	64.6	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°	16451.0	100.0
0°-180°	16451.0	100.0

Coefficient of Utilization



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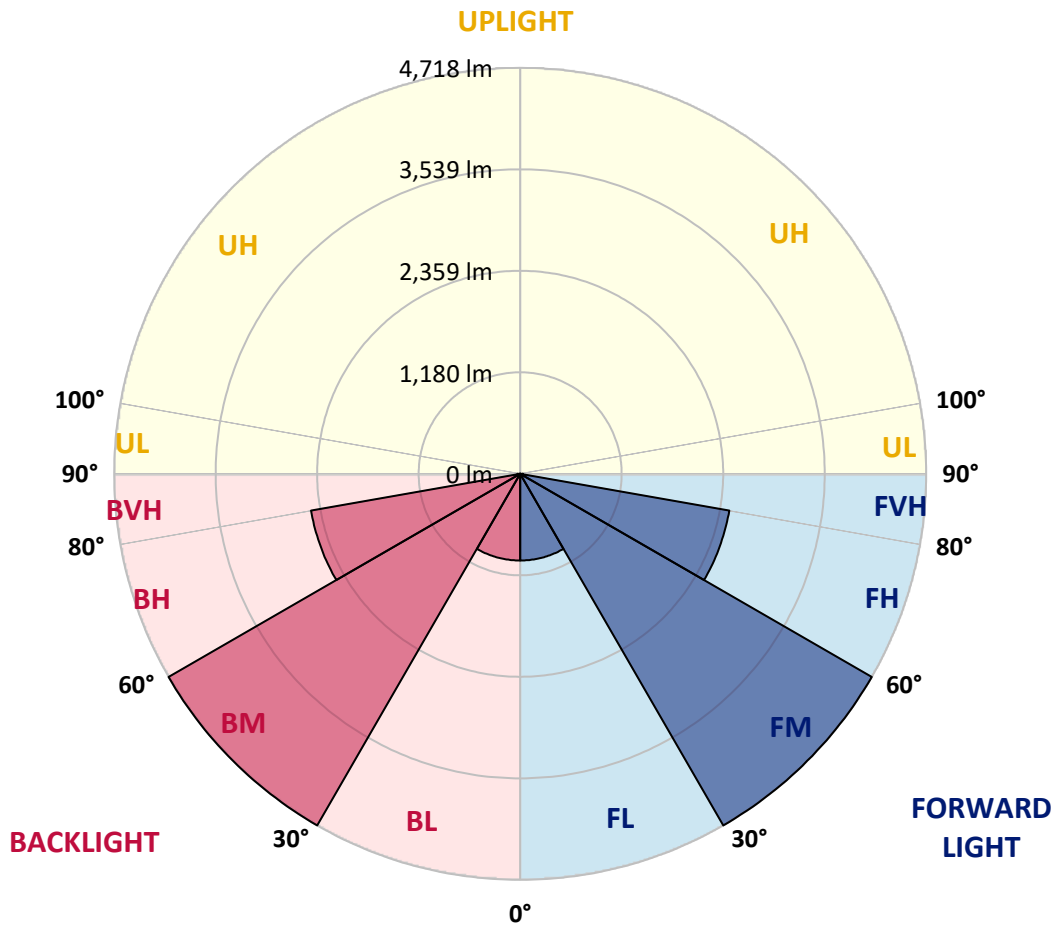
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.1	6.1			
FM (30°-60°)	4718.2	28.7			
FH (60°-80°)	2467.9	15.0			G2/5000
FVH (80°-90°)	32.3	0.2			G1/100
BL (0°-30°)	1007.1	6.1	B3/2500		
BM (30°-60°)	4718.2	28.7	B3/5000		
BH (60°-80°)	2467.9	15.0	B3/2500		G2/5000
BVH (80°-90°)	32.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1971.0	1964.4	1969.4	1965.3	1962.0	1958.7	1960.3	1966.1	1968.6	1969.4
5°	1997.5	1991.7	1994.2	1994.2	1988.4	1986.7	1987.5	1991.7	1996.6	1996.6
7.5°	2040.4	2034.6	2040.4	2037.1	2032.1	2030.5	2029.6	2032.9	2040.4	2040.4
10°	2092.4	2085.8	2089.1	2087.4	2081.6	2079.2	2078.3	2083.3	2089.9	2089.1
12.5°	2149.3	2141.9	2146.0	2141.1	2139.4	2136.9	2136.9	2136.1	2140.2	2136.9
15°	2212.9	2207.9	2209.6	2206.3	2208.8	2207.1	2200.5	2197.2	2198.8	2193.9
17.5°	2288.0	2276.4	2282.2	2280.6	2280.6	2283.9	2273.1	2269.0	2272.3	2267.4
20°	2374.7	2363.1	2365.6	2362.3	2358.1	2361.5	2348.2	2351.5	2354.0	2350.7
22.5°	2469.6	2454.7	2453.9	2455.5	2446.5	2447.3	2438.2	2446.5	2451.4	2442.3
25°	2567.0	2551.3	2562.0	2557.9	2546.3	2548.8	2542.2	2550.5	2554.6	2543.0
27.5°	2670.1	2659.4	2669.3	2671.8	2657.8	2667.7	2657.8	2665.2	2669.3	2652.0
30°	2790.7	2779.9	2789.0	2795.6	2779.1	2794.8	2786.5	2791.5	2792.3	2771.7
32.5°	2921.9	2905.4	2928.5	2931.8	2913.6	2932.6	2921.9	2928.5	2932.6	2904.6
35°	3082.0	3061.4	3087.8	3083.7	3068.0	3083.7	3073.8	3083.7	3093.6	3059.7
37.5°	3254.5	3233.1	3261.1	3253.7	3238.8	3249.6	3243.8	3250.4	3266.1	3229.8
40°	3444.4	3418.0	3455.9	3442.7	3428.7	3427.0	3430.3	3434.5	3455.1	3414.7
42.5°	3647.4	3619.4	3676.3	3655.7	3635.9	3622.7	3633.4	3641.6	3661.4	3616.0
45°	3879.3	3847.2	3921.4	3896.7	3865.3	3838.1	3855.4	3867.8	3896.7	3842.2
47.5°	4135.2	4098.9	4178.1	4170.7	4119.5	4060.1	4099.7	4135.2	4156.7	4090.7
50°	4385.3	4357.3	4461.3	4470.3	4407.6	4324.2	4379.5	4433.2	4439.0	4352.3
52.5°	4619.7	4591.7	4742.7	4799.7	4743.5	4644.5	4703.1	4757.6	4713.8	4601.6
55°	4807.1	4784.0	4976.3	5123.2	5142.2	5060.5	5095.2	5093.5	4949.9	4777.4
57.5°	4852.5	4849.2	5091.9	5403.0	5601.1	5611.0	5542.5	5367.5	5058.0	4826.1
60°	4646.1	4666.8	5000.2	5549.1	6077.4	6296.9	6000.6	5501.2	4935.0	4613.1
62.5°	4028.7	4083.2	4485.2	5370.8	6462.0	7086.0	6367.9	5298.2	4429.9	4009.8
65°	2887.2	2982.1	3426.2	4583.4	6427.3	7779.3	6315.1	4546.3	3459.2	2974.7
67.5°	1309.9	1406.5	1783.7	3138.1	5587.1	7591.1	5573.9	3171.2	1872.8	1411.4
70°	474.6	491.1	612.4	1256.2	3570.7	6048.5	3723.4	1265.3	651.2	523.3
72.5°	287.2	289.7	315.3	449.8	1240.6	3672.2	1293.4	464.7	321.9	285.6
75°	182.4	180.8	224.5	274.9	439.9	1238.9	461.4	274.9	223.7	203.9
77.5°	131.2	135.4	161.0	205.5	277.3	420.1	272.4	196.4	161.0	132.1
80°	98.2	100.7	117.2	160.1	194.8	261.6	173.3	145.3	121.3	82.5
82.5°	71.0	71.0	76.8	116.4	118.9	141.1	94.1	102.3	80.1	58.6
85°	42.1	41.3	47.9	69.3	61.9	52.0	42.9	62.7	50.3	36.3
87.5°	14.9	15.7	14.9	19.8	16.5	14.0	13.2	17.3	14.0	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1957.8
1969.4
1996.6
2037.9
2087.4
2138.6
2194.7
2271.5
2358.1
2451.4
2556.2
2665.2
2784.1
2923.5
3080.4
3252.1
3427.9
3640.0
3870.3
4112.9
4363.0
4604.9
4783.2
4811.2
4575.2
3985.0
2939.2
1390.8
516.7
290.5
205.5
134.5
85.0
58.6
35.5
11.6
0.0

OF REPORT)