

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: P949787

Luminaire Tested: **GALN-SB4B-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949787
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-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17137 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

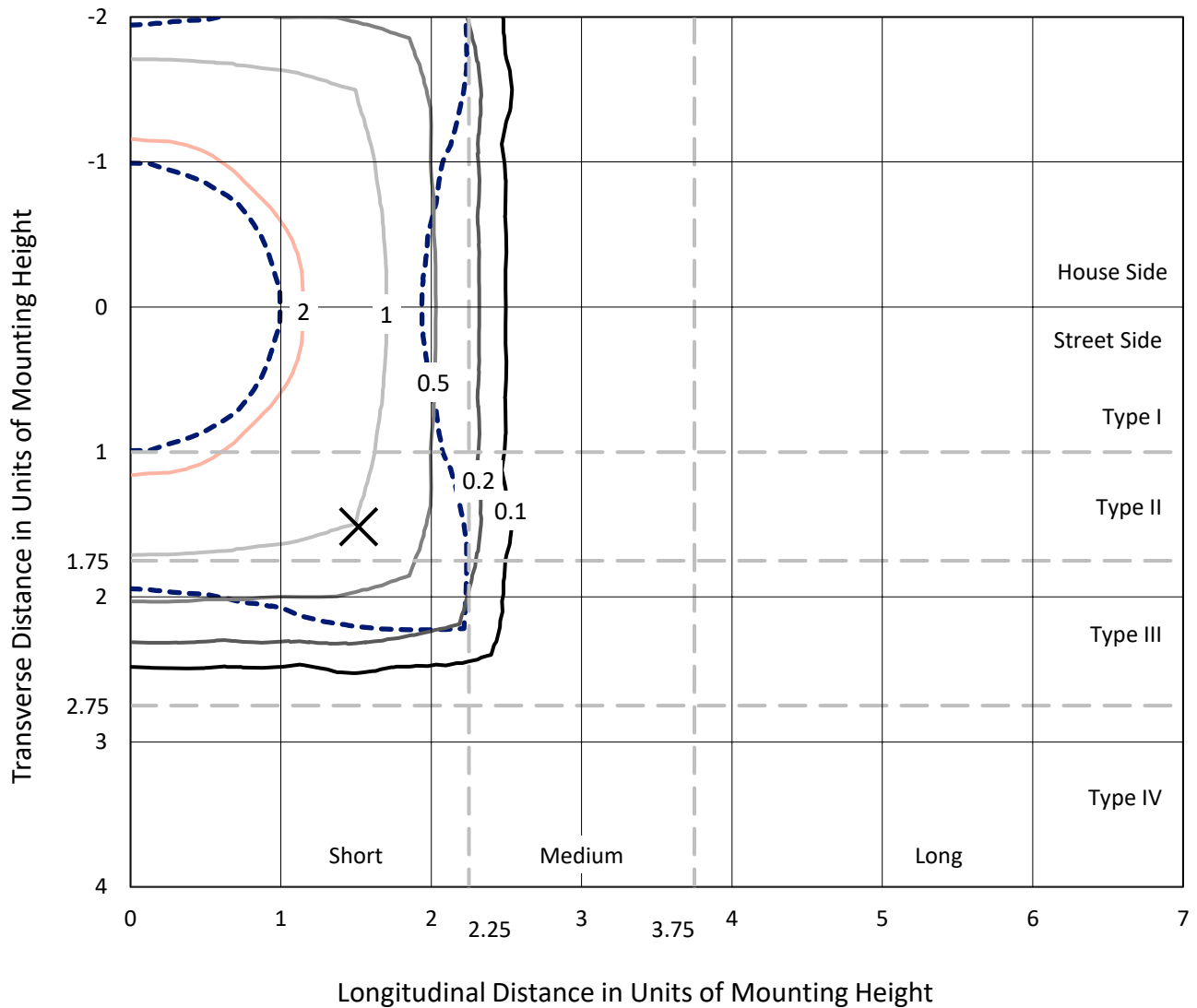
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

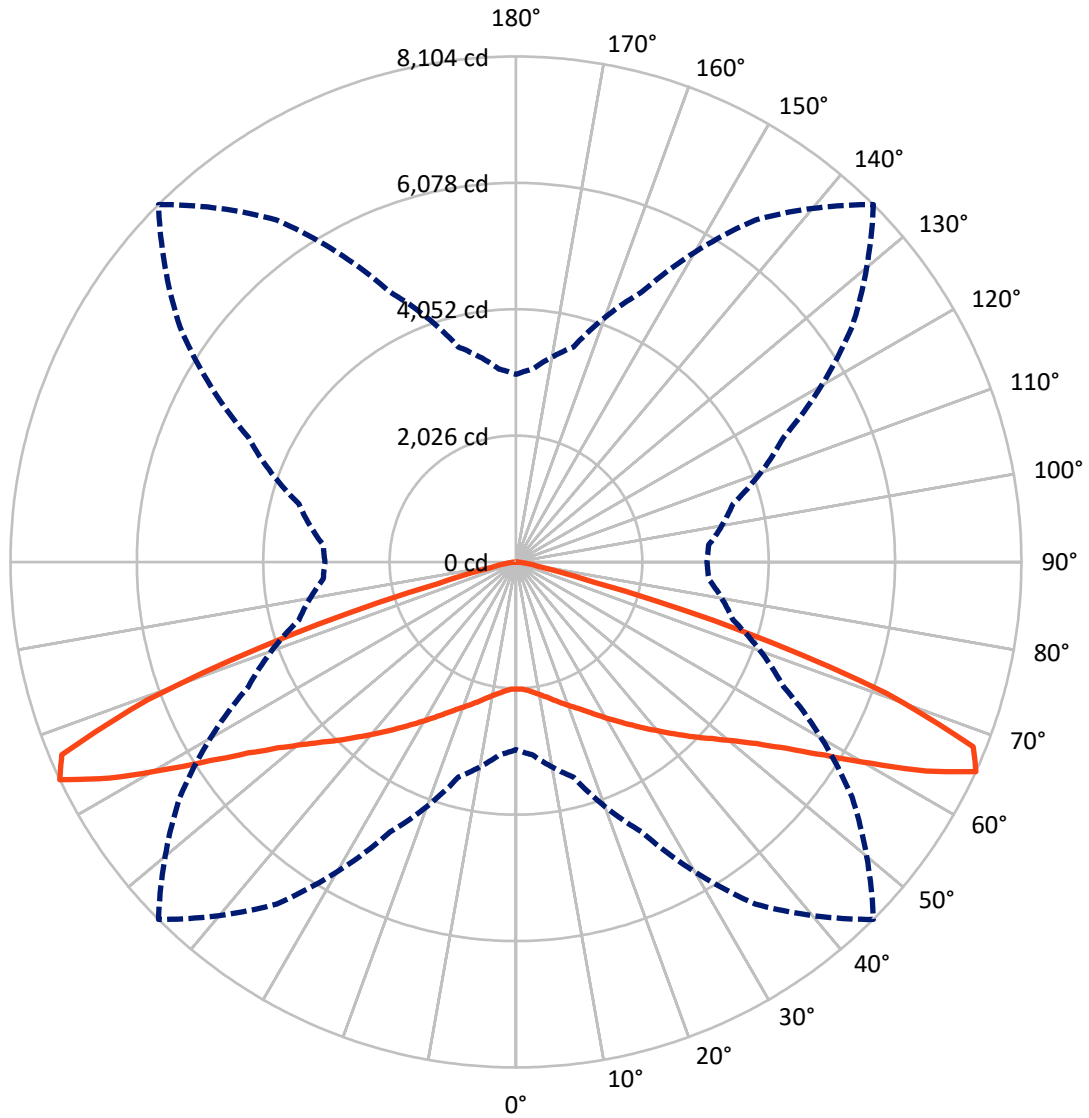
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	8568.5	0.0	8568.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8568.5	0.0	8568.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17137.0	0.0	17137.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.2
10°-20°	656.8	3.8
20°-30°	1240.1	7.2
30°-40°	2030.6	11.8
40°-50°	3148.4	18.4
50°-60°	4650.9	27.1
60°-70°	4427.2	25.8
70°-80°	714.4	4.2
80°-90°	67.3	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°	17137.0	100.0
0°-180°	17137.0	100.0



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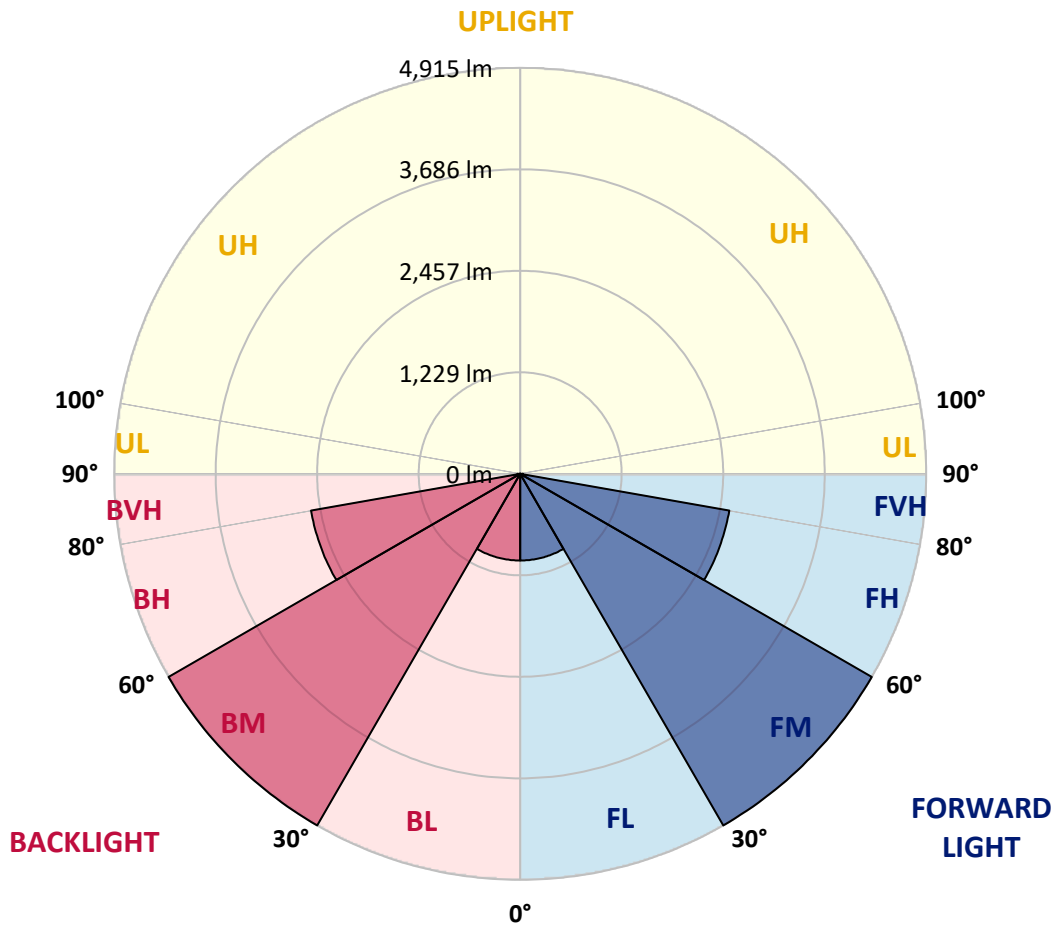
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.1	6.1			
FM (30°-60°)	4915.0	28.7			
FH (60°-80°)	2570.8	15.0			G2/5000
FVH (80°-90°)	33.7	0.2			G1/100
BL (0°-30°)	1049.1	6.1	B3/2500		
BM (30°-60°)	4915.0	28.7	B3/5000		
BH (60°-80°)	2570.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	33.7	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°	2039.5	2039.5	2039.5	2039.5	2039.5	2039.5	2039.5	2039.5	2039.5	2039.5
2.5°	2053.2	2046.4	2051.5	2047.2	2043.8	2040.3	2042.1	2048.1	2050.7	2051.5
5°	2080.7	2074.7	2077.3	2077.3	2071.3	2069.6	2070.4	2074.7	2079.9	2079.9
7.5°	2125.5	2119.4	2125.5	2122.0	2116.9	2115.1	2114.3	2117.7	2125.5	2125.5
10°	2179.6	2172.7	2176.2	2174.5	2168.4	2165.9	2165.0	2170.2	2177.0	2176.2
12.5°	2239.0	2231.2	2235.5	2230.4	2228.6	2226.1	2226.1	2225.2	2229.5	2226.1
15°	2305.2	2300.0	2301.7	2298.3	2300.9	2299.1	2292.3	2288.8	2290.5	2285.4
17.5°	2383.4	2371.4	2377.4	2375.7	2375.7	2379.1	2367.9	2363.6	2367.1	2361.9
20°	2473.7	2461.6	2464.2	2460.8	2456.5	2459.9	2446.2	2449.6	2452.2	2448.7
22.5°	2572.6	2557.1	2556.2	2557.9	2548.5	2549.3	2539.9	2548.5	2553.6	2544.2
25°	2674.0	2657.7	2668.9	2664.6	2652.5	2655.1	2648.2	2656.8	2661.1	2649.1
27.5°	2781.5	2770.3	2780.6	2783.2	2768.6	2778.9	2768.6	2776.3	2780.6	2762.6
30°	2907.0	2895.8	2905.3	2912.2	2895.0	2911.3	2902.7	2907.9	2908.7	2887.2
32.5°	3043.7	3026.5	3050.6	3054.1	3035.1	3054.9	3043.7	3050.6	3054.9	3025.7
35°	3210.5	3189.0	3216.6	3212.3	3195.9	3212.3	3201.9	3212.3	3222.6	3187.3
37.5°	3390.2	3367.9	3397.1	3389.4	3373.9	3385.1	3379.1	3385.9	3402.3	3364.4
40°	3588.0	3560.5	3600.0	3586.3	3571.7	3569.9	3573.4	3577.7	3599.2	3557.0
42.5°	3799.5	3770.3	3829.6	3808.1	3787.5	3773.7	3784.9	3793.5	3814.1	3766.8
45°	4041.1	4007.6	4085.0	4059.2	4026.5	3998.1	4016.2	4029.1	4059.2	4002.4
47.5°	4307.7	4269.8	4352.4	4344.6	4291.3	4229.4	4270.7	4307.7	4330.0	4261.2
50°	4568.2	4538.9	4647.3	4656.7	4591.4	4504.6	4562.2	4618.1	4624.1	4533.8
52.5°	4812.4	4783.1	4940.5	4999.8	4941.3	4838.2	4899.2	4956.0	4910.4	4793.5
55°	5007.5	4983.5	5183.8	5336.9	5356.6	5271.5	5307.6	5305.9	5156.3	4976.6
57.5°	5054.8	5051.4	5304.2	5628.3	5834.7	5845.0	5773.6	5591.4	5268.9	5027.3
60°	4839.9	4861.4	5208.7	5780.5	6330.8	6559.5	6250.8	5730.6	5140.8	4805.5
62.5°	4196.7	4253.5	4672.2	5594.8	6731.5	7381.5	6633.5	5519.1	4614.6	4177.0
65°	3007.6	3106.5	3569.1	4774.5	6695.4	8103.7	6578.4	4735.8	3603.5	3098.8
67.5°	1364.5	1465.1	1858.1	3269.0	5820.1	7907.7	5806.3	3303.4	1950.9	1470.3
70°	494.4	511.6	638.0	1308.6	3719.5	6300.7	3878.6	1318.1	678.4	545.1
72.5°	299.2	301.8	328.4	468.6	1292.3	3825.3	1347.3	484.1	335.3	297.5
75°	190.0	188.3	233.9	286.3	458.3	1290.6	480.6	286.3	233.0	212.4
77.5°	136.7	141.0	167.7	214.1	288.9	437.6	283.7	204.6	167.7	137.6
80°	102.3	104.9	122.1	166.8	202.9	272.6	180.6	151.3	126.4	86.0
82.5°	73.9	73.9	80.0	121.2	123.8	147.0	98.0	106.6	83.4	61.0
85°	43.9	43.0	49.9	72.2	64.5	54.2	44.7	65.3	52.4	37.8
87.5°	15.5	16.3	15.5	20.6	17.2	14.6	13.8	18.1	14.6	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2039.5
2051.5
2079.9
2122.9
2174.5
2227.8
2286.2
2366.2
2456.5
2553.6
2662.8
2776.3
2900.1
3045.5
3208.8
3387.7
3570.8
3791.8
4031.7
4284.4
4545.0
4796.9
4982.6
5011.8
4765.9
4151.2
3061.8
1448.8
538.2
302.7
214.1
140.1
88.6
61.0
37.0
12.0
0.0

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