

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: STREETWORKS

Report Number: P966784

Luminaire Tested: **NVN-SB4C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27060 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

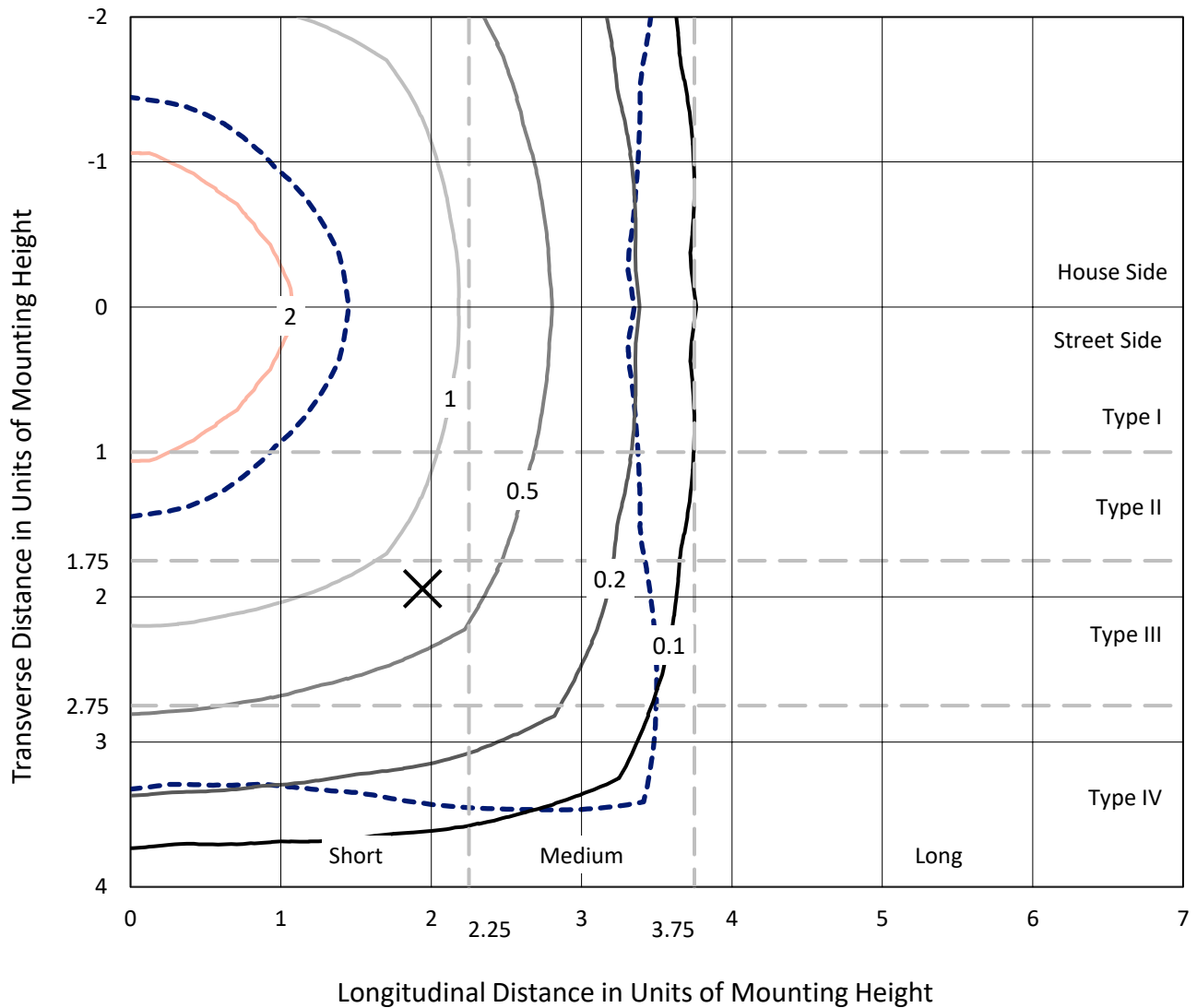
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

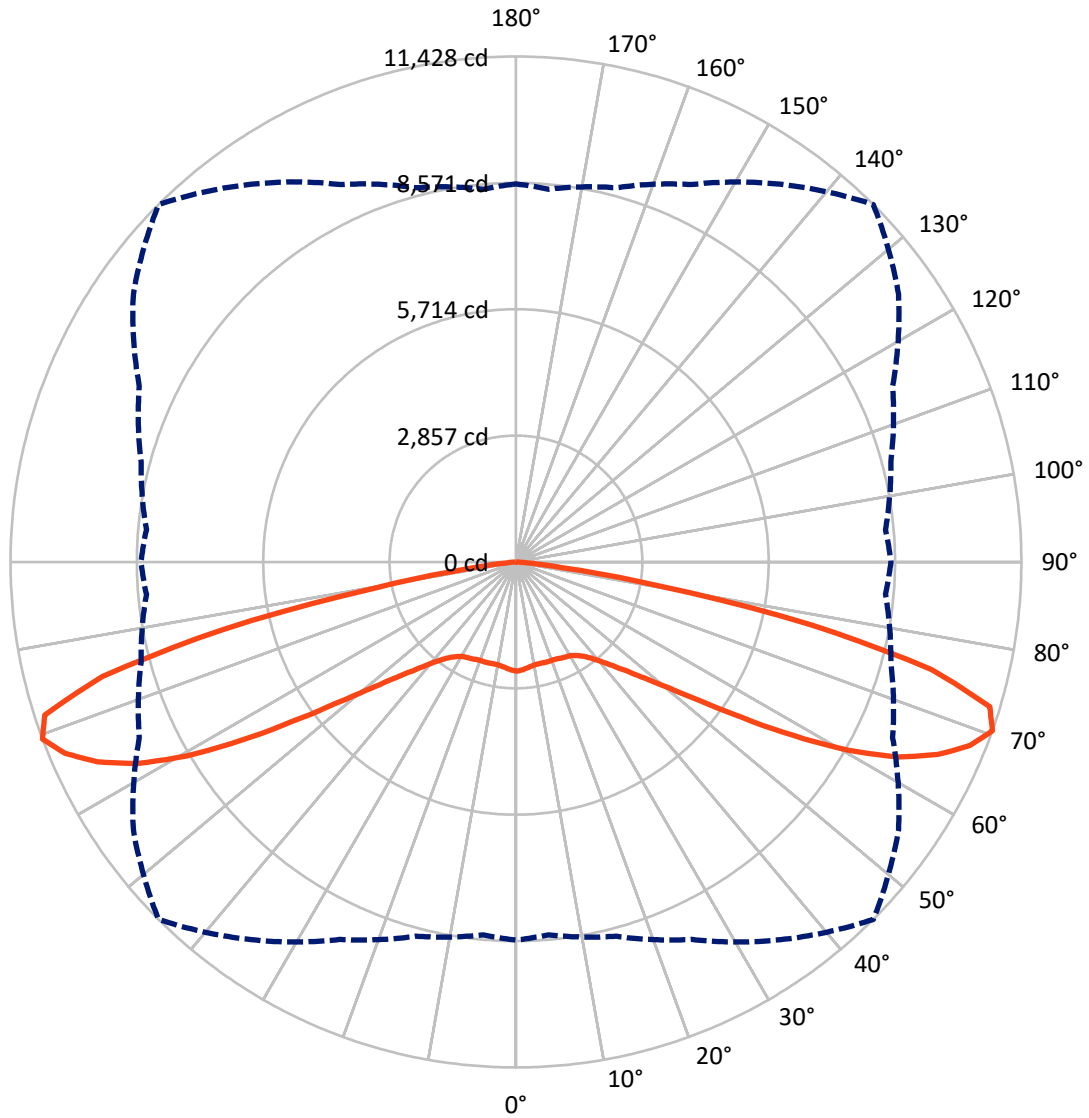
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13530.0	0.0	13530.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13530.0	0.0	13530.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27060.0	0.0	27060.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	0.8
10°-20°	674.2	2.5
20°-30°	1122.0	4.1
30°-40°	1696.8	6.3
40°-50°	2819.7	10.4
50°-60°	5320.7	19.7
60°-70°	8984.2	33.2
70°-80°	5903.5	21.8
80°-90°	309.3	1.1
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°	27060.0	100.0
0°-180°	27060.0	100.0



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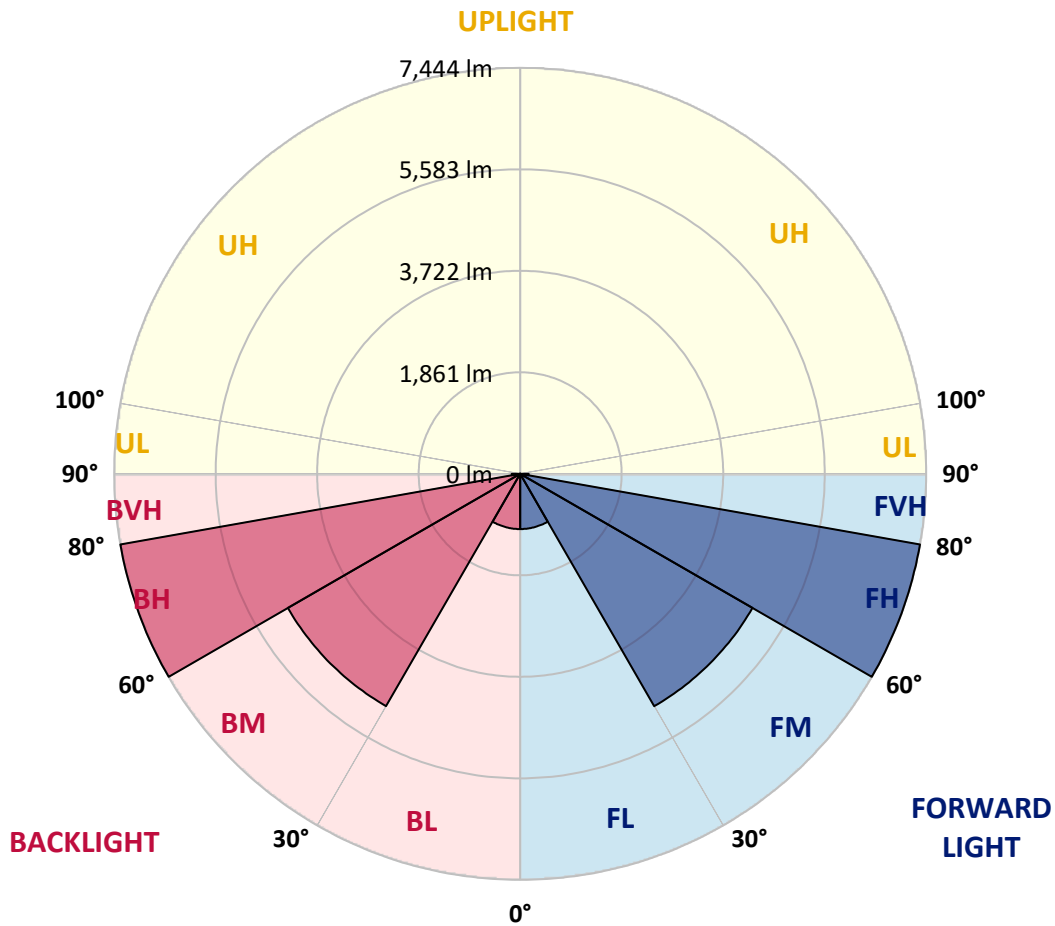
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.9	3.7			
FM (30°-60°)	4918.6	18.2			
FH (60°-80°)	7443.8	27.5			G3/7500
FVH (80°-90°)	154.6	0.6			G2/225
BL (0°-30°)	1012.9	3.7	B3/2500		
BM (30°-60°)	4918.6	18.2	B3/5000		
BH (60°-80°)	7443.8	27.5	B5		G3/7500
BVH (80°-90°)	154.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4	2468.4
2.5°	2452.9	2460.0	2457.1	2451.5	2451.5	2447.3	2451.5	2454.4	2458.6	2461.4	2460.0
5°	2420.6	2426.2	2424.8	2420.6	2422.0	2417.8	2420.6	2424.8	2427.6	2429.0	2429.0
7.5°	2392.5	2398.1	2395.3	2388.2	2388.2	2384.0	2385.5	2389.7	2393.9	2395.3	2395.3
10°	2385.5	2391.0	2382.6	2371.3	2367.1	2361.5	2362.9	2367.1	2375.5	2379.8	2379.8
12.5°	2388.2	2392.5	2384.0	2367.1	2362.9	2357.3	2357.3	2361.5	2372.8	2378.4	2379.8
15°	2396.7	2400.9	2388.2	2370.0	2365.7	2361.5	2360.2	2365.7	2378.4	2388.2	2389.7
17.5°	2412.1	2416.3	2396.7	2371.3	2365.7	2367.1	2365.7	2370.0	2389.7	2407.9	2407.9
20°	2426.2	2429.0	2402.3	2371.3	2365.7	2367.1	2365.7	2374.2	2399.5	2424.8	2426.2
22.5°	2430.5	2433.2	2407.9	2381.2	2377.0	2378.4	2377.0	2385.5	2409.4	2434.7	2434.7
25°	2431.8	2436.1	2416.3	2395.3	2402.3	2405.2	2402.3	2403.7	2422.0	2444.5	2443.1
27.5°	2452.9	2458.6	2440.3	2422.0	2426.2	2424.8	2429.0	2433.2	2447.3	2469.8	2464.2
30°	2496.6	2500.8	2485.3	2467.0	2464.2	2454.4	2467.0	2481.1	2496.6	2516.3	2512.0
32.5°	2568.2	2576.7	2557.1	2537.3	2524.7	2519.0	2528.9	2552.8	2573.9	2595.0	2586.6
35°	2687.9	2693.5	2675.1	2638.6	2616.1	2616.1	2624.5	2655.5	2689.2	2715.9	2706.1
37.5°	2856.6	2863.6	2831.3	2787.7	2754.0	2754.0	2765.1	2797.5	2848.2	2886.2	2872.0
40°	3062.0	3071.8	3031.0	2986.0	2953.6	2948.0	2962.1	2998.6	3046.5	3094.3	3078.8
42.5°	3309.5	3320.8	3267.3	3227.9	3202.6	3202.6	3209.7	3243.4	3287.0	3346.1	3341.8
45°	3625.9	3645.6	3572.5	3533.2	3509.2	3514.8	3519.0	3548.7	3588.0	3655.5	3652.7
47.5°	4002.9	4022.6	3945.2	3904.4	3900.2	3927.0	3910.1	3931.2	3952.3	4029.7	4007.1
50°	4430.5	4464.3	4410.8	4408.0	4416.4	4465.6	4426.3	4437.5	4413.6	4462.8	4433.3
52.5°	4953.7	5002.9	4993.1	5010.0	5104.2	5205.5	5115.5	5076.1	4986.1	5001.5	4949.5
55°	5588.1	5662.6	5676.7	5777.9	5991.7	6198.5	6007.2	5848.2	5657.0	5621.8	5567.0
57.5°	6309.6	6368.6	6436.2	6642.9	7042.4	7409.5	7042.4	6690.8	6389.7	6318.0	6267.4
60°	7085.9	7159.1	7223.8	7529.0	8122.6	8638.8	8111.3	7552.9	7154.9	7057.8	6973.5
62.5°	7920.1	8014.3	8059.3	8398.2	9090.2	9706.3	9100.1	8423.6	7981.9	7877.8	7793.5
65°	8720.3	8797.7	8848.3	9209.8	9870.9	10488.3	9915.8	9249.2	8794.9	8658.5	8590.9
67.5°	9093.1	9135.2	9259.0	9668.3	10365.9	11070.6	10484.1	9711.9	9204.2	8965.1	8967.8
70°	8547.4	8461.6	8759.8	9415.1	10425.0	11427.8	10560.1	9395.5	8773.8	8385.6	8478.4
72.5°	6605.0	6457.3	6974.8	8095.9	9749.9	11200.0	9817.4	8159.1	7297.0	6509.3	6704.8
75°	3593.6	3426.3	4140.8	5558.5	7775.1	9707.7	7953.8	5717.4	4610.6	3566.9	3799.0
77.5°	1014.1	950.8	1527.5	2689.2	4676.7	6815.9	4856.7	2748.3	1811.6	1074.6	1194.1
80°	310.9	301.0	407.8	810.2	1985.9	3264.5	1908.7	820.0	519.0	327.7	346.0
82.5°	184.3	168.8	202.5	295.4	506.4	1025.3	492.3	308.0	247.5	165.9	180.0
85°	105.5	98.5	119.5	143.5	170.1	218.0	142.1	146.3	132.2	88.6	92.9
87.5°	43.6	39.4	46.4	45.0	39.4	50.6	37.9	45.0	53.4	35.2	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)