

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: P884442

Luminaire Tested: **NVN-SB5B-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28903 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

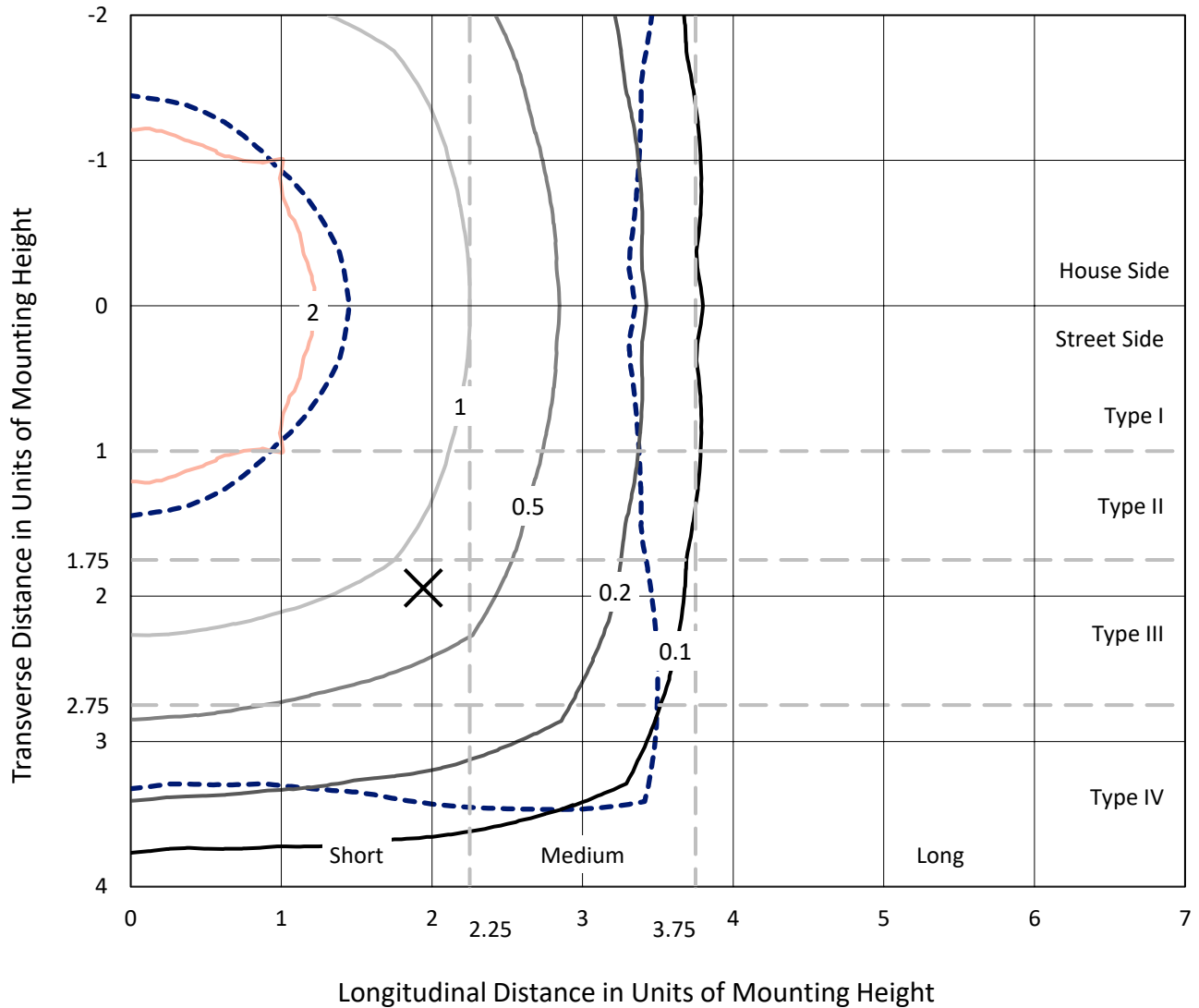
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

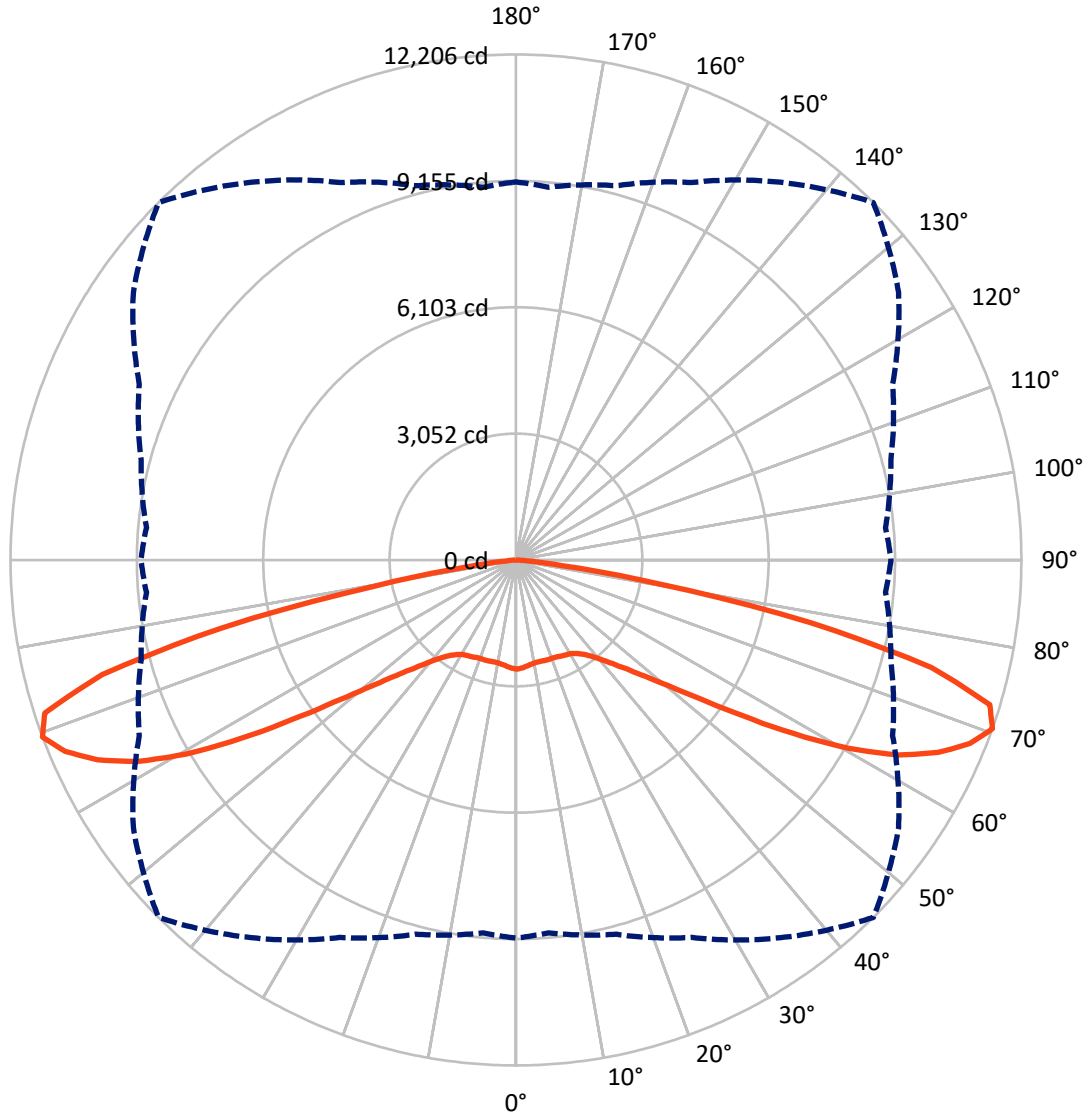
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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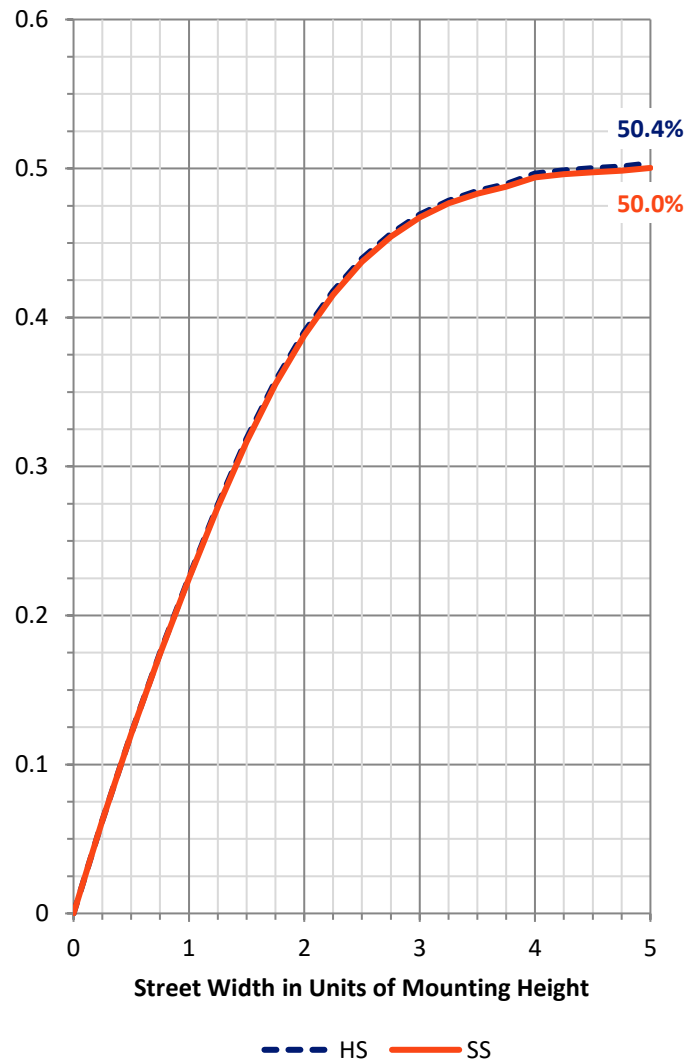
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14451.5	0.0	14451.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14451.5	0.0	14451.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28903.0	0.0	28903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	0.8
10°-20°	720.1	2.5
20°-30°	1198.4	4.1
30°-40°	1812.4	6.3
40°-50°	3011.7	10.4
50°-60°	5683.0	19.7
60°-70°	9596.1	33.2
70°-80°	6305.6	21.8
80°-90°	330.4	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°	28903.0	100.0
0°-180°	28903.0	100.0

Coefficient of Utilization



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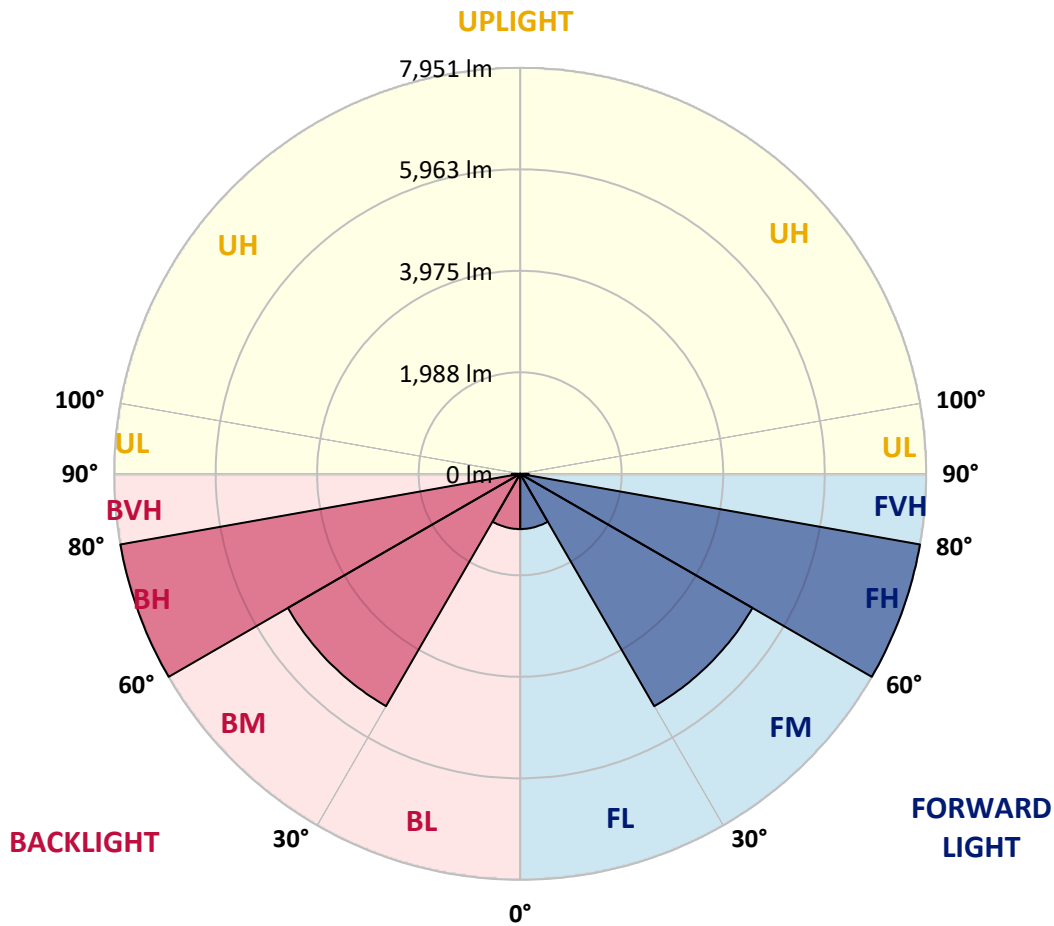
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.9	3.7			
FM (30°-60°)	5253.6	18.2			
FH (60°-80°)	7950.8	27.5			G4/12000
FVH (80°-90°)	165.2	0.6			G2/225
BL (0°-30°)	1081.9	3.7	B3/2500		
BM (30°-60°)	5253.6	18.2	B4/8500		
BH (60°-80°)	7950.8	27.5	B5		G4/12000
BVH (80°-90°)	165.2	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5	2636.5
2.5°	2620.0	2627.5	2624.5	2618.5	2618.5	2614.0	2618.5	2621.5	2626.0	2629.0	2627.5
5°	2585.5	2591.5	2590.0	2585.5	2587.0	2582.5	2585.5	2590.0	2593.0	2594.5	2594.5
7.5°	2555.4	2561.4	2558.4	2550.9	2550.9	2546.4	2547.9	2552.4	2556.9	2558.4	2558.4
10°	2547.9	2553.9	2544.9	2532.9	2528.4	2522.4	2523.9	2528.4	2537.4	2541.9	2541.9
12.5°	2550.9	2555.4	2546.4	2528.4	2523.9	2517.9	2517.9	2522.4	2534.4	2540.4	2541.9
15°	2559.9	2564.4	2550.9	2531.4	2526.9	2522.4	2520.9	2526.9	2540.4	2550.9	2552.4
17.5°	2576.4	2581.0	2559.9	2532.9	2526.9	2528.4	2526.9	2531.4	2552.4	2571.9	2571.9
20°	2591.5	2594.5	2565.9	2532.9	2526.9	2528.4	2526.9	2535.9	2562.9	2590.0	2591.5
22.5°	2596.0	2599.0	2571.9	2543.4	2538.9	2540.4	2538.9	2547.9	2573.4	2600.5	2600.5
25°	2597.5	2602.0	2581.0	2558.4	2565.9	2568.9	2565.9	2567.4	2587.0	2611.0	2609.5
27.5°	2620.0	2626.0	2606.5	2587.0	2591.5	2590.0	2594.5	2599.0	2614.0	2638.0	2632.0
30°	2666.6	2671.1	2654.6	2635.0	2632.0	2621.5	2635.0	2650.1	2666.6	2687.6	2683.1
32.5°	2743.2	2752.2	2731.2	2710.1	2696.6	2690.6	2701.1	2726.7	2749.2	2771.7	2762.7
35°	2870.9	2876.9	2857.4	2818.3	2794.3	2794.3	2803.3	2836.3	2872.4	2900.9	2890.4
37.5°	3051.2	3058.7	3024.1	2977.6	2941.5	2941.5	2953.5	2988.1	3042.2	3082.7	3067.7
40°	3270.5	3281.0	3237.5	3189.4	3154.8	3148.8	3163.8	3202.9	3254.0	3305.1	3288.5
42.5°	3534.9	3546.9	3489.8	3447.8	3420.7	3420.7	3428.2	3464.3	3510.9	3574.0	3569.5
45°	3872.9	3894.0	3815.8	3773.8	3748.2	3754.2	3758.8	3790.3	3832.4	3904.5	3901.5
47.5°	4275.5	4296.6	4213.9	4170.4	4165.9	4194.4	4176.4	4198.9	4221.5	4304.1	4280.1
50°	4732.2	4768.3	4711.2	4708.2	4717.2	4769.8	4727.7	4739.8	4714.2	4766.8	4735.2
52.5°	5291.1	5343.7	5333.2	5351.2	5451.8	5560.0	5463.9	5421.8	5325.7	5342.2	5286.6
55°	5968.6	6048.3	6063.3	6171.4	6399.8	6620.6	6416.3	6246.6	6042.2	6004.7	5946.1
57.5°	6739.3	6802.4	6874.5	7095.4	7522.0	7914.1	7522.0	7146.4	6824.9	6748.3	6694.2
60°	7568.6	7646.7	7715.8	8041.8	8675.8	9227.1	8663.8	8067.3	7642.2	7538.5	7448.4
62.5°	8459.4	8560.1	8608.2	8970.2	9709.4	10367.4	9719.9	8997.3	8525.5	8414.4	8324.2
65°	9314.3	9396.9	9451.0	9837.1	10543.1	11202.6	10591.2	9879.1	9393.9	9248.2	9176.0
67.5°	9712.4	9757.4	9889.6	10326.8	11071.9	11824.6	11198.1	10373.4	9831.0	9575.7	9578.7
70°	9129.5	9037.8	9356.3	10056.4	11135.0	12206.2	11279.3	10035.4	9371.3	8956.7	9055.9
72.5°	7054.8	6897.1	7449.9	8647.2	10413.9	11962.8	10486.1	8714.8	7793.9	6952.6	7161.5
75°	3838.4	3659.6	4422.8	5937.1	8304.7	10368.9	8495.5	6106.8	4924.5	3809.8	4057.7
77.5°	1083.2	1015.6	1631.5	2872.4	4995.1	7280.1	5187.4	2935.5	1935.0	1147.8	1275.5
80°	332.0	321.5	435.7	865.3	2121.2	3486.8	2038.6	875.8	554.3	350.0	369.6
82.5°	196.8	180.3	216.3	315.5	540.8	1095.2	525.8	329.0	264.4	177.3	192.3
85°	112.7	105.2	127.7	153.2	181.8	232.9	151.7	156.2	141.2	94.6	99.2
87.5°	46.6	42.1	49.6	48.1	42.1	54.1	40.6	48.1	57.1	37.6	34.6
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)