

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: P966287

Luminaire Tested: **NVN-SB4B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966287
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: STREETWORKS
Catalog Number: NVN-SB4B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21781.2 lumens
Efficiency: N/A
Efficacy: 148.2 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

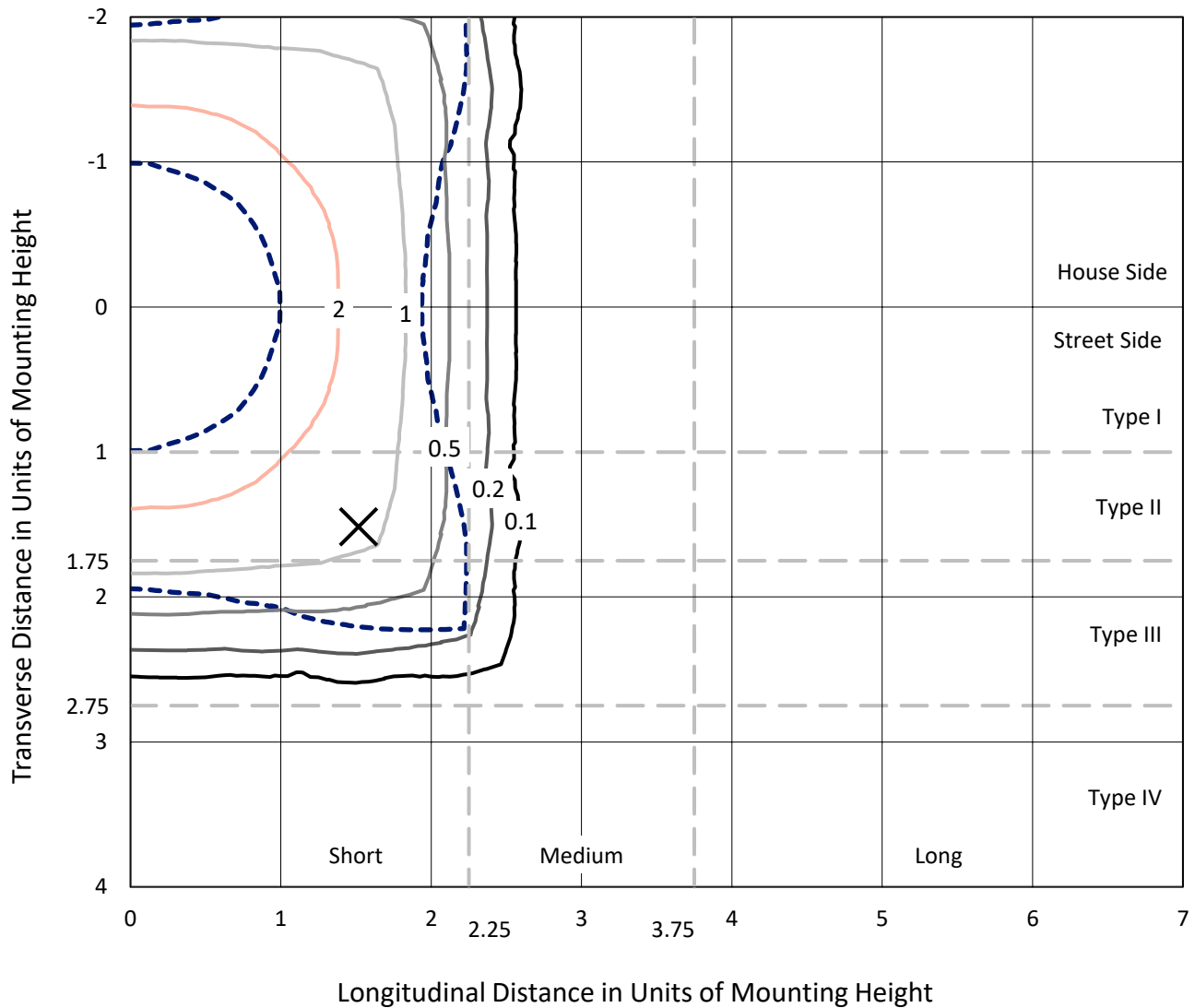


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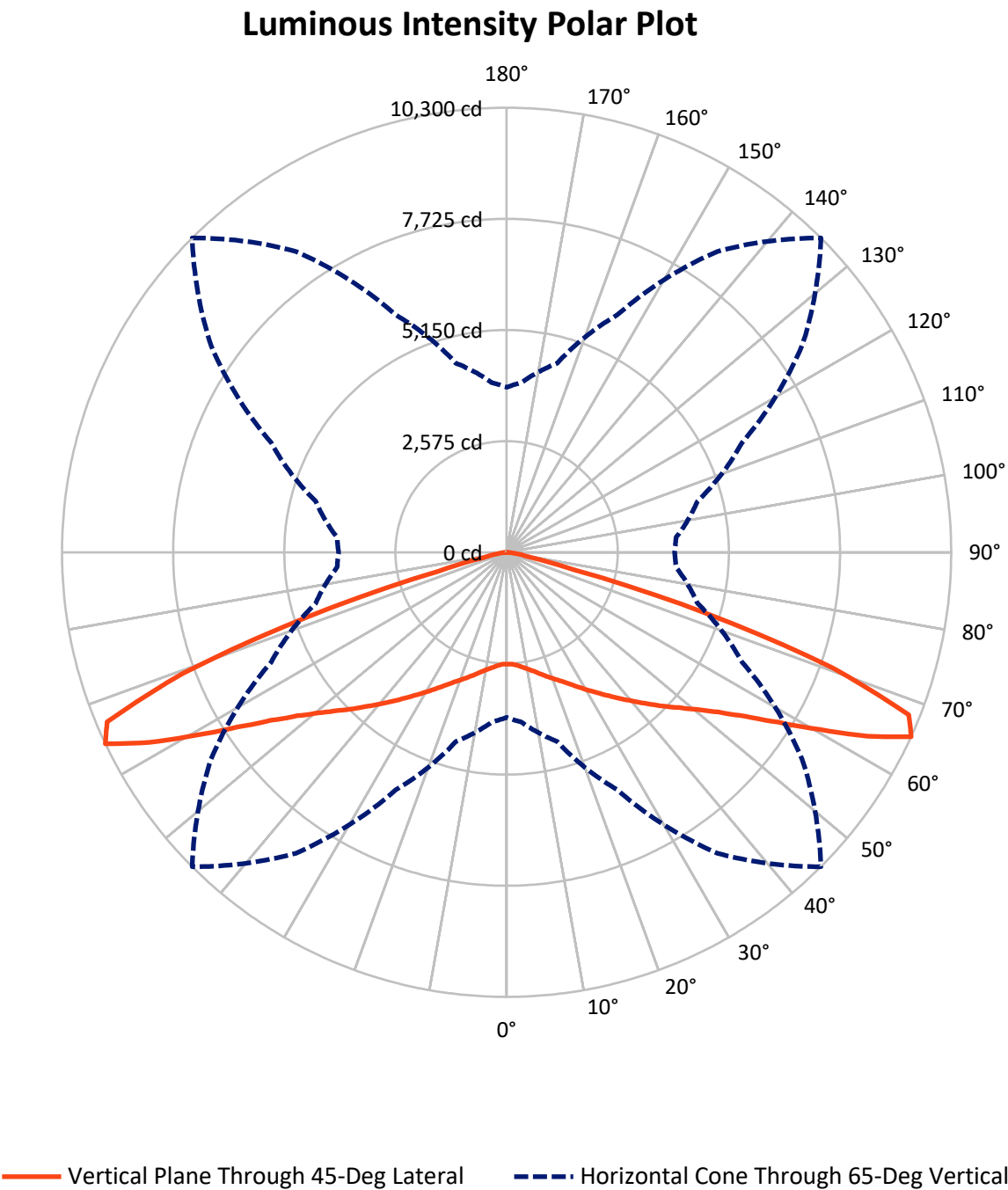
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type V - Short - N/A

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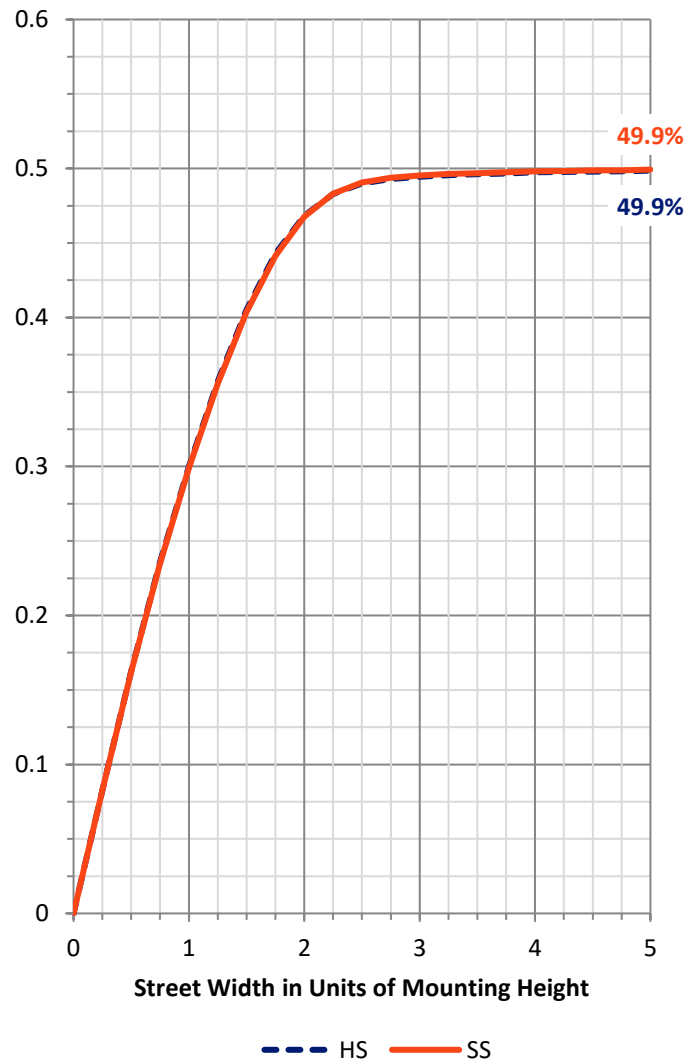
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10890.6	0.0	10890.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10890.6	0.0	10890.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	21781.2	0.0	21781.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.2
10°-20°	834.8	3.8
20°-30°	1576.1	7.2
30°-40°	2580.9	11.8
40°-50°	4001.7	18.4
50°-60°	5911.3	27.1
60°-70°	5627.0	25.8
70°-80°	908.0	4.2
80°-90°	85.6	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°	21781.2	100.0
0°-180°	21781.2	100.0

Coefficient of Utilization



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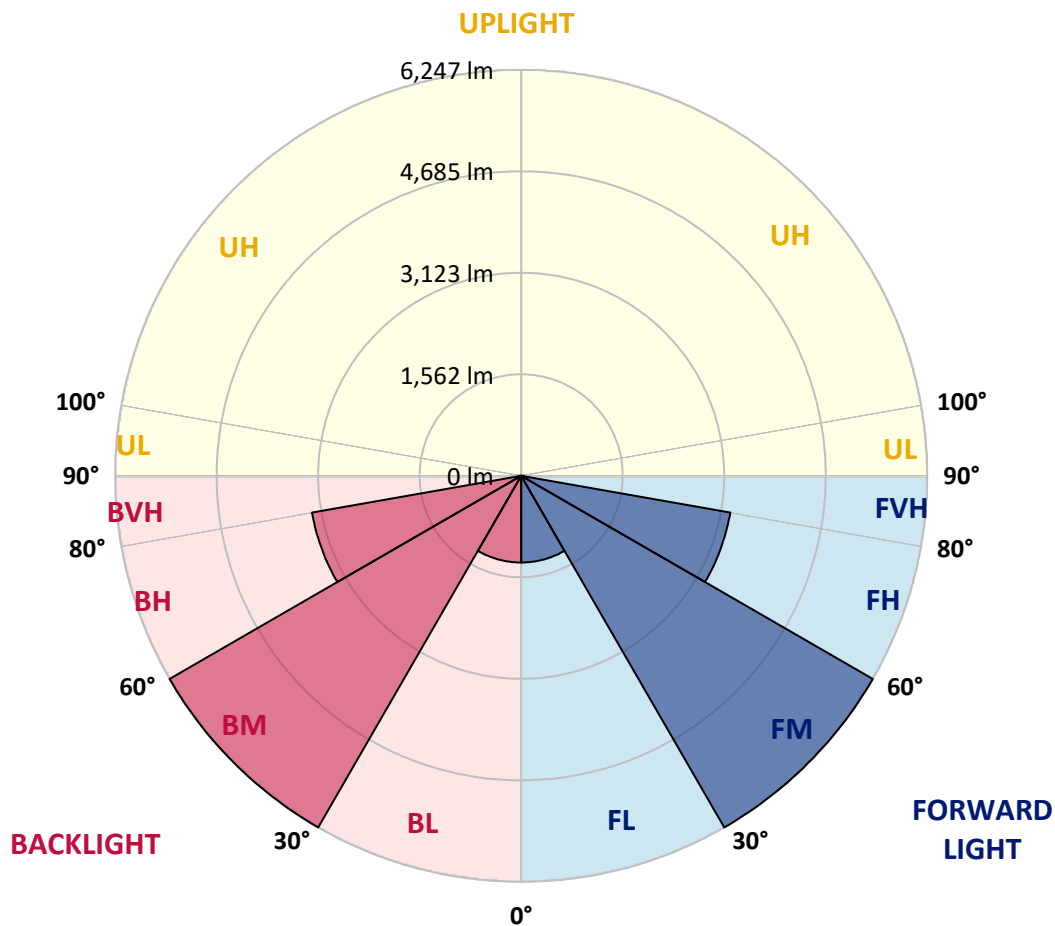
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.4	6.1			
FM	(30°-60°)	6246.9	28.7			
FH	(60°-80°)	3267.5	15.0			G2/5000
FVH	(80°-90°)	42.8	0.2			G1/100
BL	(0°-30°)	1333.4	6.1	B3/2500		
BM	(30°-60°)	6246.9	28.7	B4/8500		
BH	(60°-80°)	3267.5	15.0	B4/5000		G2/5000
BVH	(80°-90°)	42.8	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°	90°
0°	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2
2.5°	2609.6	2600.9	2607.5	2602.1	2597.7	2593.2	2595.5	2603.1	2606.4	2607.5	2607.5
5°	2644.6	2637.0	2640.3	2640.3	2632.6	2630.5	2631.5	2637.0	2643.6	2643.6	2643.6
7.5°	2701.5	2693.8	2701.5	2697.1	2690.5	2688.4	2687.2	2691.6	2701.5	2701.5	2698.2
10°	2770.3	2761.6	2766.0	2763.8	2756.1	2752.8	2751.7	2758.3	2767.1	2766.0	2763.8
12.5°	2845.7	2835.9	2841.3	2834.8	2832.6	2829.3	2829.3	2828.3	2833.7	2829.3	2831.6
15°	2929.9	2923.3	2925.5	2921.1	2924.4	2922.2	2913.5	2909.2	2911.3	2904.7	2905.9
17.5°	3029.3	3014.0	3021.7	3019.4	3019.4	3023.9	3009.6	3004.2	3008.6	3002.0	3007.5
20°	3144.1	3128.8	3132.1	3127.7	3122.3	3126.6	3109.1	3113.4	3116.7	3112.4	3122.3
22.5°	3269.7	3250.1	3248.9	3251.2	3239.1	3240.2	3228.2	3239.1	3245.7	3233.7	3245.7
25°	3398.7	3377.9	3392.1	3386.7	3371.3	3374.6	3365.9	3376.9	3382.3	3367.0	3384.4
27.5°	3535.3	3521.1	3534.2	3537.5	3518.9	3532.0	3518.9	3528.8	3534.2	3511.2	3528.8
30°	3694.8	3680.7	3692.7	3701.4	3679.5	3700.4	3689.4	3695.9	3697.1	3669.7	3686.1
32.5°	3868.7	3846.7	3877.4	3881.7	3857.7	3882.8	3868.7	3877.4	3882.8	3845.7	3870.8
35°	4080.6	4053.3	4088.3	4082.8	4062.1	4082.8	4069.7	4082.8	4095.9	4051.1	4078.5
37.5°	4309.0	4280.6	4317.7	4308.0	4288.3	4302.4	4294.9	4303.6	4324.3	4276.2	4305.7
40°	4560.3	4525.4	4575.7	4558.2	4539.6	4537.5	4541.8	4547.2	4574.6	4521.1	4538.5
42.5°	4829.2	4792.1	4867.4	4840.2	4813.9	4796.4	4810.6	4821.6	4847.7	4787.7	4819.3
45°	5136.3	5093.6	5192.0	5159.2	5117.7	5081.6	5104.6	5121.0	5159.2	5087.1	5124.3
47.5°	5475.0	5427.0	5531.9	5522.1	5454.3	5375.6	5428.1	5475.0	5503.4	5416.1	5445.5
50°	5806.2	5769.0	5906.8	5918.8	5835.7	5725.3	5798.5	5869.6	5877.2	5762.4	5776.7
52.5°	6116.6	6079.4	6279.4	6354.8	6280.5	6149.4	6227.0	6299.0	6241.1	6092.5	6096.9
55°	6364.6	6334.0	6588.7	6783.1	6808.4	6700.1	6746.0	6743.9	6553.6	6325.3	6333.0
57.5°	6424.7	6420.4	6741.6	7153.7	7416.0	7429.0	7338.4	7106.6	6696.8	6389.7	6370.1
60°	6151.5	6178.8	6620.4	7347.1	8046.5	8337.1	7944.9	7283.6	6534.0	6107.8	6057.5
62.5°	5334.1	5406.3	5938.4	7111.0	8555.8	9381.9	8431.1	7014.9	5865.3	5309.0	5276.2
65°	3822.7	3948.4	4536.3	6068.5	8509.9	10299.9	8361.2	6019.3	4580.0	3938.6	3891.5
67.5°	1734.3	1862.2	2361.6	4154.9	7397.3	10050.7	7379.9	4198.6	2479.6	1868.8	1841.4
70°	628.3	650.3	810.9	1663.3	4727.6	8008.2	4929.7	1675.3	862.2	692.9	684.1
72.5°	380.3	383.6	417.5	595.6	1642.6	4862.0	1712.5	615.3	426.2	378.1	384.7
75°	241.5	239.3	297.2	363.9	582.5	1640.3	610.9	363.9	296.1	269.9	272.1
77.5°	173.7	179.3	213.1	272.1	367.2	556.3	360.6	260.0	213.1	174.9	178.1
80°	130.1	133.4	155.2	212.0	257.9	346.4	229.5	192.3	160.6	109.3	112.5
82.5°	94.0	94.0	101.7	154.1	157.3	186.9	124.5	135.5	106.0	77.6	77.6
85°	55.8	54.6	63.3	91.8	82.0	68.9	56.8	83.0	66.6	48.1	46.9
87.5°	19.7	20.8	19.7	26.2	21.8	18.6	17.5	23.0	18.6	16.4	15.3
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)