

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: P967837

Luminaire Tested: **NVN-SB5A-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967837  
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-SB5A-827-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

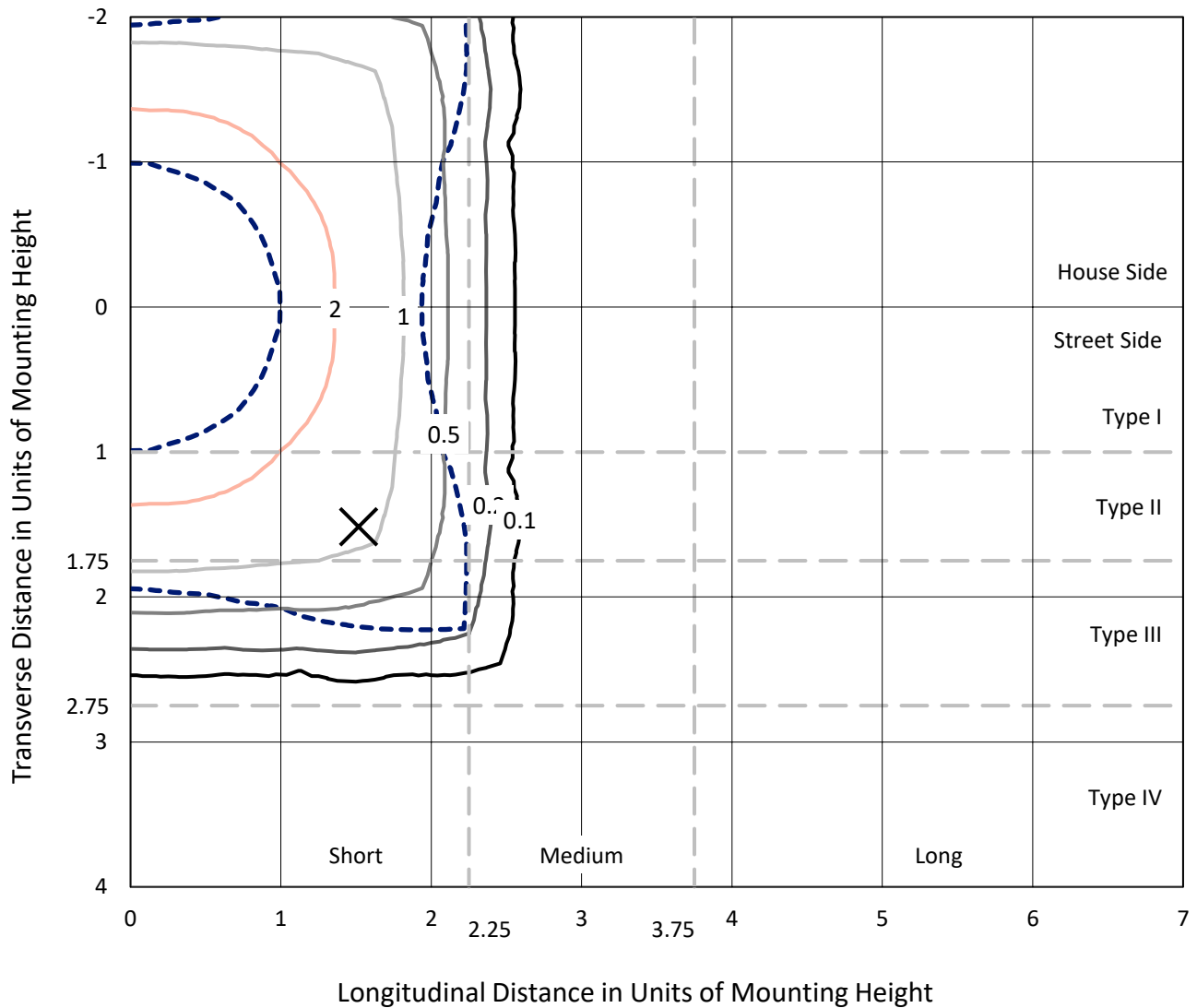
Lumens per Lamp: N/A  
Luminaire Lumens: 21164.2 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

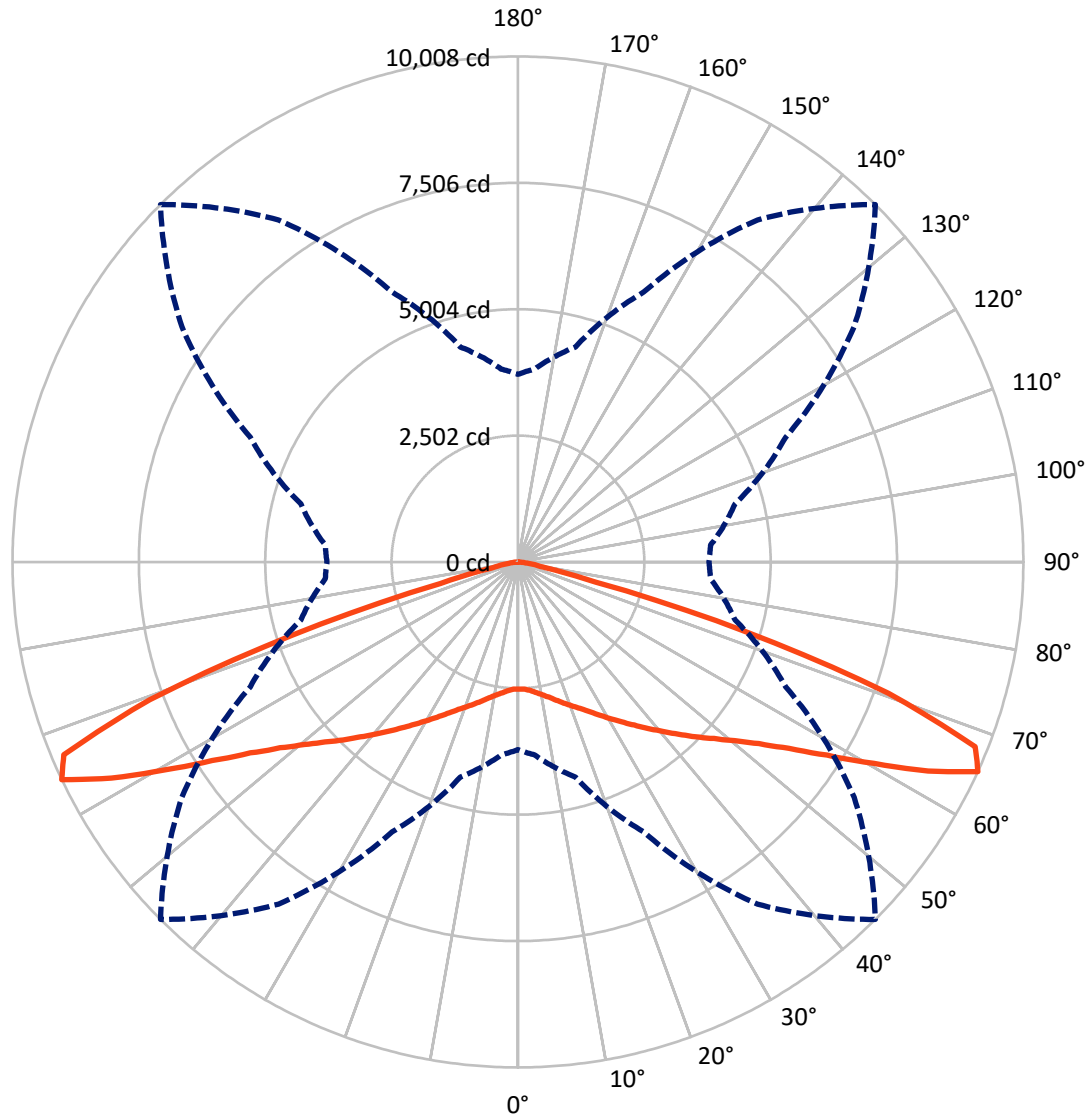
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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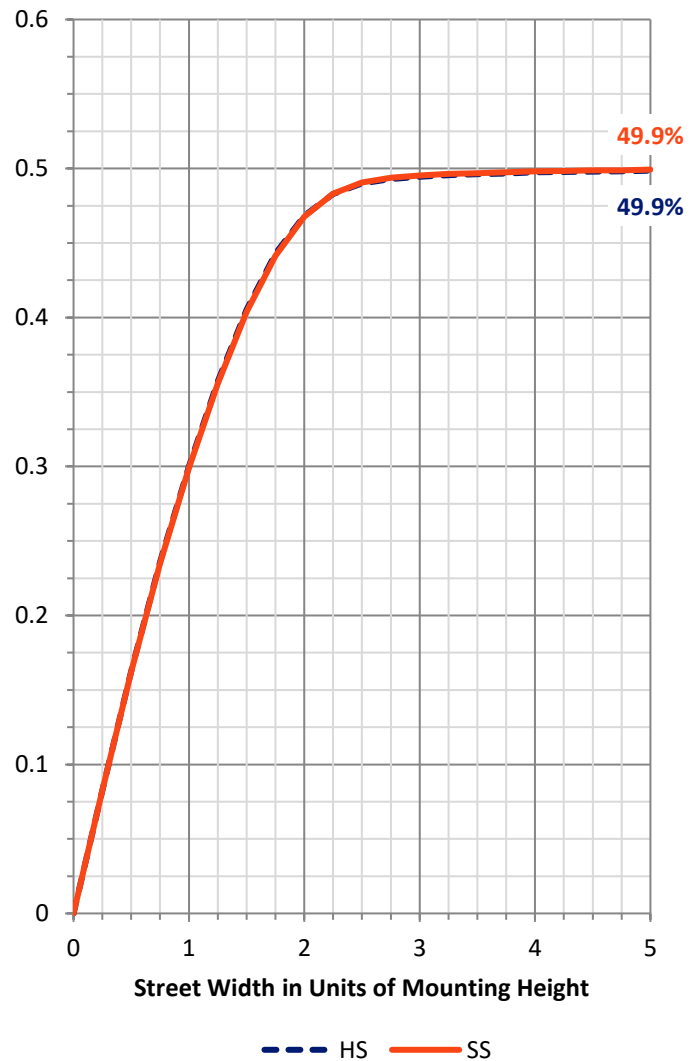
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10582.1	0.0	10582.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10582.1	0.0	10582.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21164.2	0.0	21164.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	1.2
10°-20°	811.1	3.8
20°-30°	1531.5	7.2
30°-40°	2507.8	11.8
40°-50°	3888.3	18.4
50°-60°	5743.9	27.1
60°-70°	5467.6	25.8
70°-80°	882.3	4.2
80°-90°	83.2	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°	21164.2	100.0
0°-180°	21164.2	100.0

**Coefficient of Utilization**



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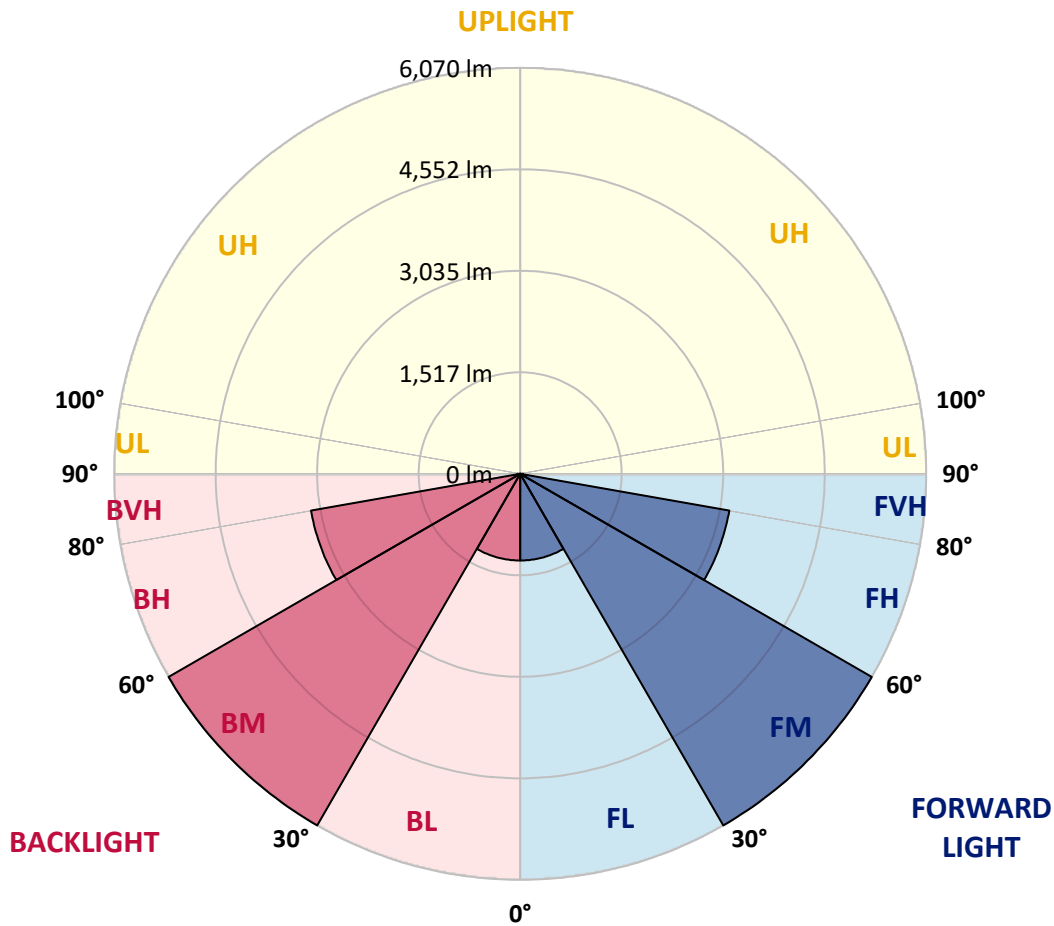
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.6	6.1			
FM (30°-60°)	6070.0	28.7			
FH (60°-80°)	3174.9	15.0			G2/5000
FVH (80°-90°)	41.6	0.2			G1/100
BL (0°-30°)	1295.6	6.1	B3/2500		
BM (30°-60°)	6070.0	28.7	B4/8500		
BH (60°-80°)	3174.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	41.6	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°	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7
2.5°	2535.7	2527.2	2533.6	2528.3	2524.1	2519.9	2521.9	2529.4	2532.6	2533.6	2533.6
5°	2569.7	2562.3	2565.5	2565.5	2558.0	2555.9	2557.0	2562.3	2568.6	2568.6	2568.6
7.5°	2624.9	2617.5	2624.9	2620.7	2614.4	2612.2	2611.1	2615.4	2624.9	2624.9	2621.7
10°	2691.9	2683.3	2687.5	2685.5	2678.0	2674.8	2673.8	2680.2	2688.7	2687.5	2685.5
12.5°	2765.1	2755.5	2760.8	2754.5	2752.3	2749.2	2749.2	2748.1	2753.5	2749.2	2751.3
15°	2846.8	2840.5	2842.6	2838.3	2841.6	2839.5	2830.9	2826.6	2828.8	2822.4	2823.5
17.5°	2943.5	2928.6	2936.1	2934.0	2934.0	2938.2	2924.4	2919.1	2923.3	2916.9	2922.3
20°	3055.0	3040.1	3043.3	3039.0	3033.8	3038.0	3021.0	3025.3	3028.5	3024.2	3033.8
22.5°	3177.1	3158.0	3156.9	3159.0	3147.4	3148.4	3136.8	3147.4	3153.7	3142.0	3153.7
25°	3302.4	3282.3	3296.0	3290.8	3275.9	3279.1	3270.6	3281.1	3286.5	3271.6	3288.6
27.5°	3435.2	3421.3	3434.1	3437.2	3419.2	3432.0	3419.2	3428.7	3434.1	3411.8	3428.7
30°	3590.2	3576.3	3588.0	3596.5	3575.3	3595.5	3584.8	3591.2	3592.3	3565.8	3581.7
32.5°	3759.0	3737.8	3767.5	3771.8	3748.4	3772.8	3759.0	3767.5	3772.8	3736.7	3761.1
35°	3965.0	3938.5	3972.5	3967.2	3947.0	3967.2	3954.3	3967.2	3979.9	3936.3	3962.9
37.5°	4186.9	4159.3	4195.4	4185.9	4166.7	4180.6	4173.2	4181.6	4201.8	4155.0	4183.7
40°	4431.2	4397.1	4446.0	4429.0	4411.0	4408.8	4413.1	4418.5	4445.0	4392.9	4410.0
42.5°	4692.3	4656.3	4729.6	4703.0	4677.5	4660.6	4674.3	4685.0	4710.5	4652.1	4682.8
45°	4990.8	4949.4	5044.9	5013.1	4972.7	4937.7	4960.0	4976.0	5013.1	4943.0	4979.1
47.5°	5320.0	5273.2	5375.2	5365.7	5299.8	5223.3	5274.3	5320.0	5347.5	5262.7	5291.3
50°	5641.7	5605.6	5739.4	5751.1	5670.4	5563.1	5634.3	5703.3	5710.7	5599.3	5613.0
52.5°	5943.3	5907.2	6101.5	6174.8	6102.5	5975.1	6050.6	6120.6	6064.3	5919.9	5924.2
55°	6184.3	6154.6	6402.0	6591.1	6615.5	6510.3	6554.9	6552.8	6368.0	6146.1	6153.5
57.5°	6242.8	6238.5	6550.7	6951.0	7205.9	7218.6	7130.4	6905.3	6507.1	6208.7	6189.7
60°	5977.3	6003.8	6432.8	7138.9	7818.5	8101.0	7719.8	7077.3	6349.0	5934.7	5886.0
62.5°	5183.0	5253.0	5770.2	6909.6	8313.4	9116.1	8192.3	6816.1	5699.0	5158.5	5126.7
65°	3714.4	3836.6	4407.8	5896.5	8268.8	10008.1	8124.4	5848.8	4450.2	3826.9	3781.3
67.5°	1685.2	1809.4	2294.7	4037.3	7187.8	9766.0	7170.8	4079.7	2409.4	1815.8	1789.2
70°	610.6	631.8	787.9	1616.1	4593.6	7781.4	4790.1	1627.8	837.8	673.2	664.7
72.5°	369.5	372.7	405.6	578.7	1596.0	4724.2	1664.0	597.9	414.1	367.4	373.8
75°	234.6	232.6	288.8	353.6	566.0	1593.9	593.6	353.6	287.7	262.3	264.4
77.5°	168.8	174.1	207.0	264.4	356.8	540.5	350.4	252.8	207.0	169.9	173.1
80°	126.4	129.6	150.8	206.0	250.6	336.6	223.0	186.9	156.1	106.2	109.4
82.5°	91.3	91.3	98.7	149.8	152.9	181.6	121.1	131.7	103.0	75.4	75.4
85°	54.1	53.1	61.6	89.2	79.6	66.9	55.2	80.7	64.8	46.7	45.6
87.5°	19.1	20.2	19.1	25.5	21.2	18.0	17.0	22.3	18.0	15.9	14.9
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)