

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: P967841

Luminaire Tested: **NVN-SB5A-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5A-827-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

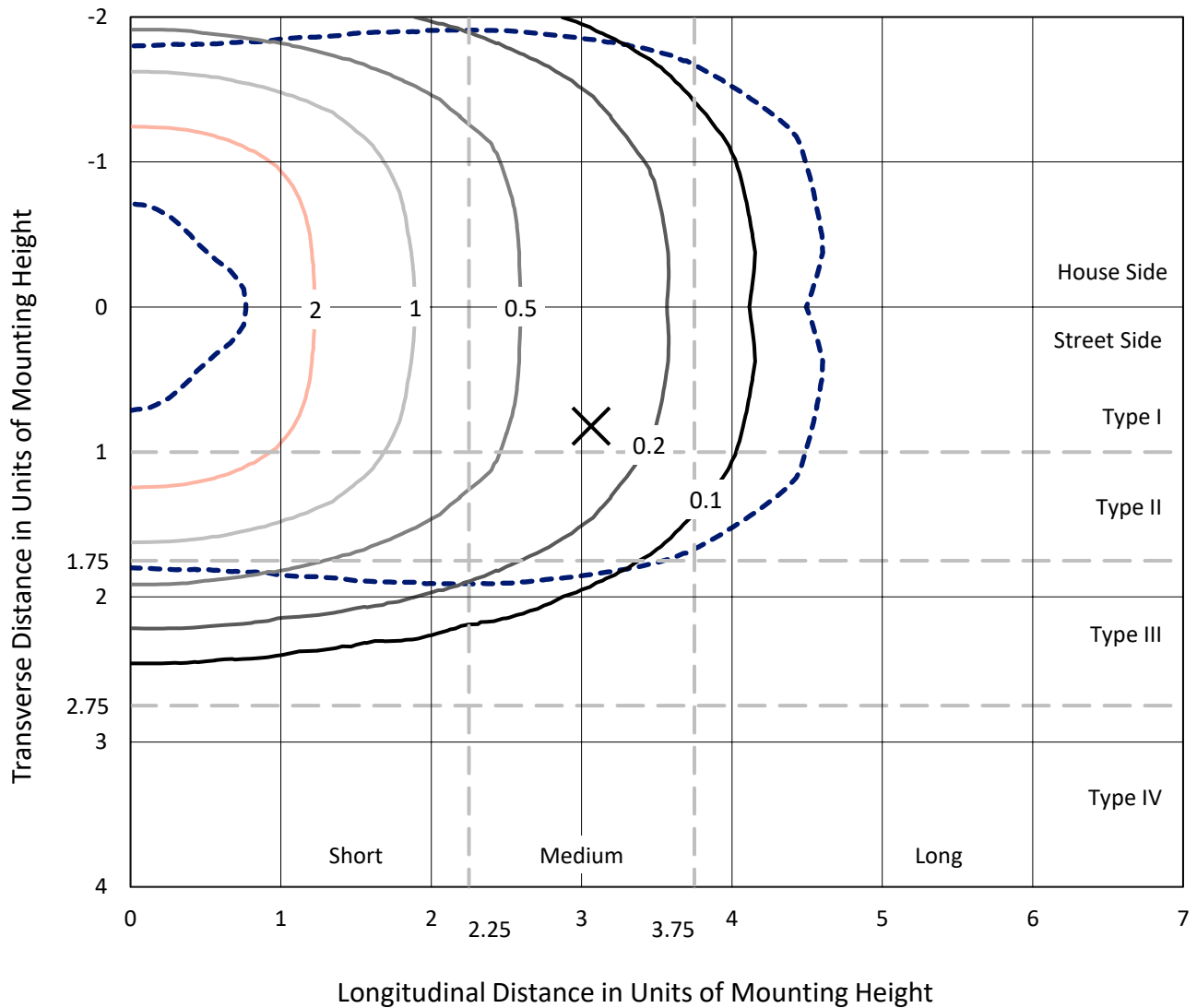
Lumens per Lamp: N/A  
Luminaire Lumens: 20797.2 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

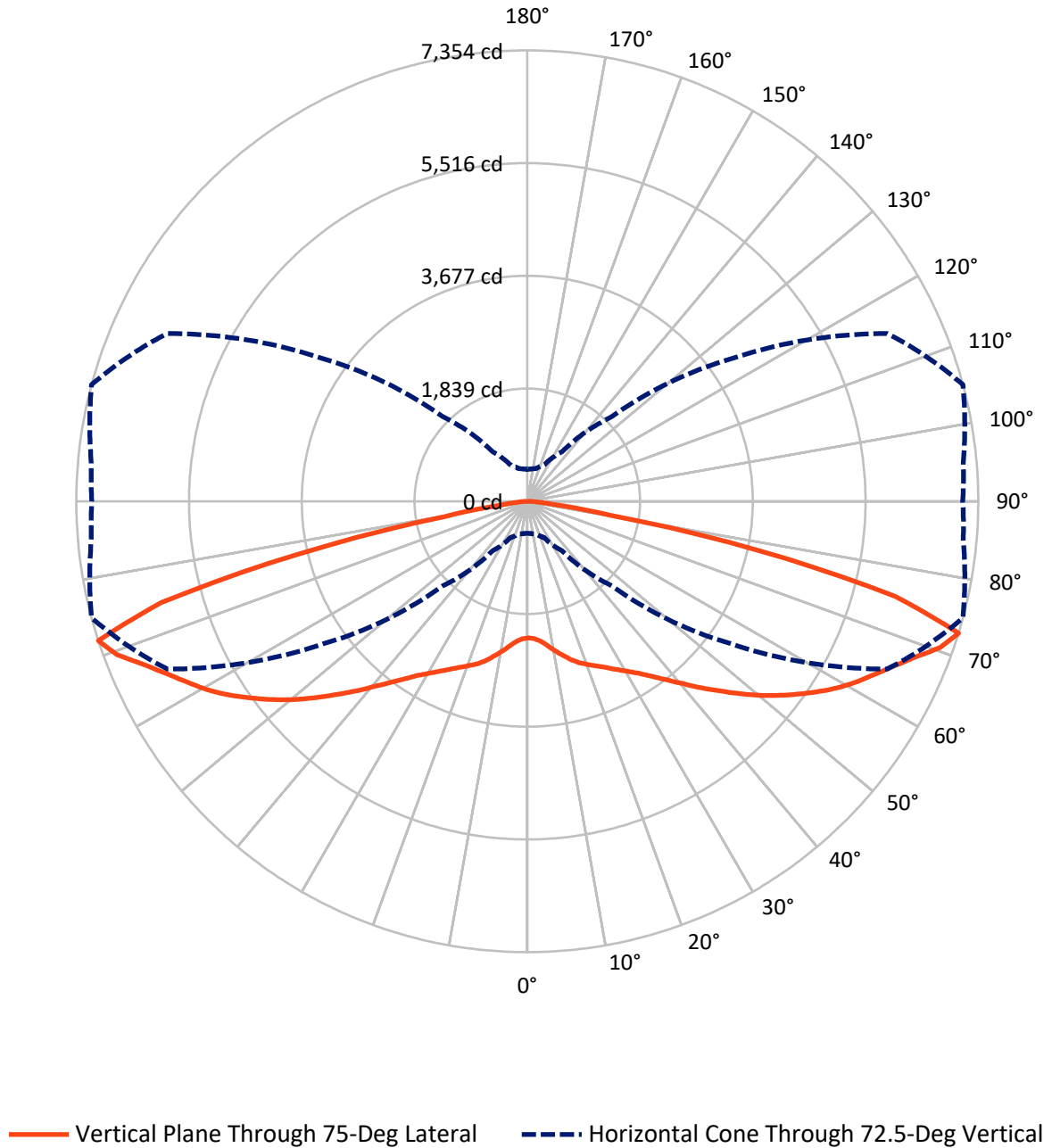
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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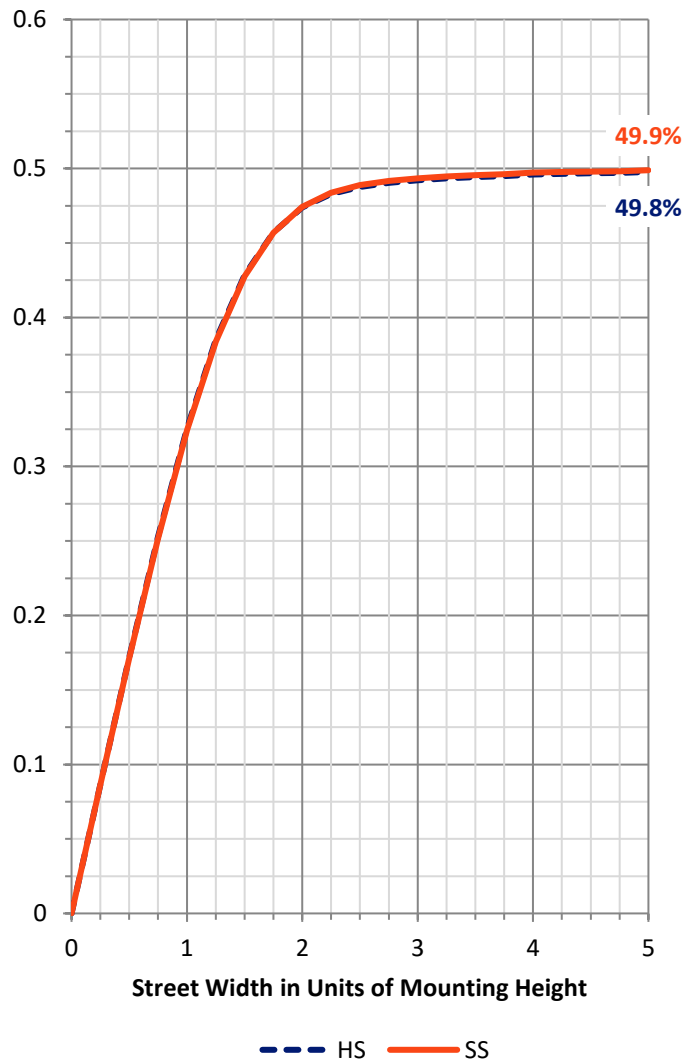
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10398.6	0.0	10398.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10398.6	0.0	10398.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20797.2	0.0	20797.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	1.0
10°-20°	719.8	3.5
20°-30°	1390.8	6.7
30°-40°	2348.4	11.3
40°-50°	3724.3	17.9
50°-60°	4986.5	24.0
60°-70°	4745.5	22.8
70°-80°	2476.3	11.9
80°-90°	187.4	0.9
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°	20797.2	100.0
0°-180°	20797.2	100.0

**Coefficient of Utilization**



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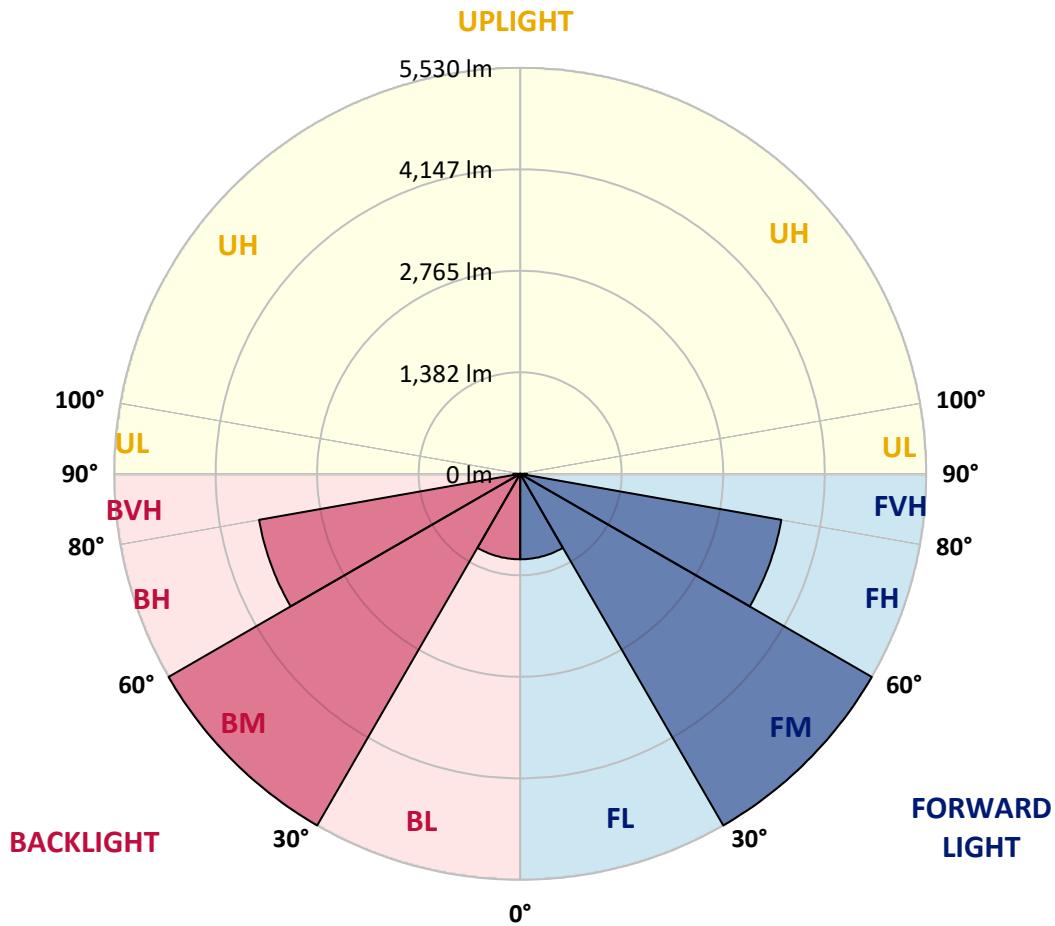
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.4	5.6			
FM (30°-60°)	5529.6	26.6			
FH (60°-80°)	3610.9	17.4			G2/5000
FVH (80°-90°)	93.7	0.5			G1/100
BL (0°-30°)	1164.4	5.6	B3/2500		
BM (30°-60°)	5529.6	26.6	B4/8500		
BH (60°-80°)	3610.9	17.4	B4/5000		G4/5000
BVH (80°-90°)	93.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2227.7	2225.7	2227.7	2229.9	2228.9	2228.9	2234.1	2237.3	2243.7	2242.6	2241.6
5°	2212.9	2211.8	2220.4	2229.9	2237.3	2250.1	2266.0	2277.7	2292.5	2295.7	2295.7
7.5°	2205.5	2202.3	2217.2	2234.1	2257.5	2289.3	2320.1	2352.0	2377.5	2386.0	2388.1
10°	2210.7	2211.8	2232.0	2263.8	2301.0	2345.6	2389.2	2443.3	2479.4	2487.9	2496.4
12.5°	2235.2	2233.1	2267.1	2318.0	2369.0	2425.3	2476.2	2535.6	2575.0	2595.2	2603.6
15°	2279.8	2275.5	2323.4	2398.7	2473.0	2538.9	2580.3	2636.6	2682.2	2707.7	2717.3
17.5°	2332.9	2335.1	2397.7	2495.4	2593.0	2667.4	2706.6	2735.3	2770.4	2792.6	2803.3
20°	2426.3	2430.6	2500.7	2616.4	2727.9	2812.8	2844.7	2834.0	2843.7	2860.6	2873.4
22.5°	2551.6	2553.8	2632.3	2757.7	2874.4	2967.9	2989.1	2945.5	2919.0	2930.7	2939.2
25°	2697.1	2710.9	2789.4	2918.0	3038.0	3127.2	3136.7	3070.9	3005.0	3008.2	3013.5
27.5°	2874.4	2887.1	2966.8	3094.3	3216.3	3293.8	3292.8	3204.7	3108.0	3083.6	3091.0
30°	3066.6	3080.4	3162.2	3293.8	3407.5	3475.5	3460.6	3355.4	3217.4	3171.8	3177.1
32.5°	3295.0	3303.4	3386.2	3517.9	3623.1	3677.2	3646.4	3516.9	3344.8	3292.8	3305.5
35°	3571.0	3583.7	3645.3	3769.5	3861.9	3906.6	3854.5	3701.6	3508.4	3449.9	3458.5
37.5°	3886.4	3877.9	3948.0	4058.4	4134.8	4162.4	4091.3	3909.8	3695.2	3626.2	3639.0
40°	4215.5	4211.3	4287.8	4394.0	4435.4	4452.3	4347.2	4148.7	3910.8	3836.5	3860.9
42.5°	4513.9	4510.7	4613.7	4731.6	4781.5	4762.4	4629.6	4402.4	4160.4	4075.4	4096.6
45°	4752.8	4748.6	4874.9	5040.6	5138.3	5106.4	4928.0	4682.7	4413.0	4324.9	4345.1
47.5°	4936.5	4938.7	5074.6	5279.5	5450.4	5462.1	5232.8	4968.4	4691.2	4591.4	4621.2
50°	5069.2	5075.6	5221.1	5448.4	5682.0	5785.0	5543.9	5261.4	4979.0	4866.5	4900.4
52.5°	5102.1	5113.8	5289.1	5555.6	5830.6	6027.0	5860.3	5542.9	5251.9	5144.7	5172.3
55°	4927.0	4950.3	5172.3	5547.1	5921.9	6186.3	6138.5	5828.5	5526.9	5416.5	5447.3
57.5°	4524.6	4557.5	4816.6	5306.0	5901.7	6295.7	6354.1	6102.4	5801.9	5695.7	5720.2
60°	3960.7	4000.0	4248.4	4782.5	5617.2	6336.0	6506.0	6368.9	6054.7	5951.7	5974.0
62.5°	3110.2	3161.1	3458.5	4084.9	5016.1	6148.1	6635.4	6610.0	6281.9	6153.4	6168.2
65°	1995.2	2049.4	2362.6	3102.7	4214.5	5572.6	6675.8	6844.6	6521.9	6342.4	6364.7
67.5°	1203.0	1227.5	1382.5	1880.6	3080.4	4705.1	6333.9	7104.8	6802.2	6579.2	6596.2
70°	769.9	783.6	876.1	1104.3	1741.5	3432.9	5486.6	7153.7	7142.0	6822.4	6820.2
72.5°	522.4	526.6	551.1	654.1	985.4	1950.6	4046.7	6476.3	7354.4	7135.6	7101.6
75°	382.2	405.6	445.0	463.0	559.5	974.8	2319.1	4550.0	6198.0	6293.6	6062.1
77.5°	284.5	285.7	339.8	361.0	399.2	519.3	981.1	2540.0	3848.2	4040.3	3603.9
80°	241.1	228.3	227.2	291.0	300.5	323.9	438.5	877.1	1378.3	835.7	631.8
82.5°	200.7	186.9	168.8	227.2	204.9	198.5	190.0	356.8	438.5	215.6	183.7
85°	140.1	133.8	127.4	148.6	116.8	99.8	91.3	166.7	184.8	91.3	80.7
87.5°	60.5	62.6	63.8	65.8	48.9	35.1	35.1	46.7	46.7	36.1	26.5
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)