

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: P884315

Luminaire Tested: **NVN-SB5A-827-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5A-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

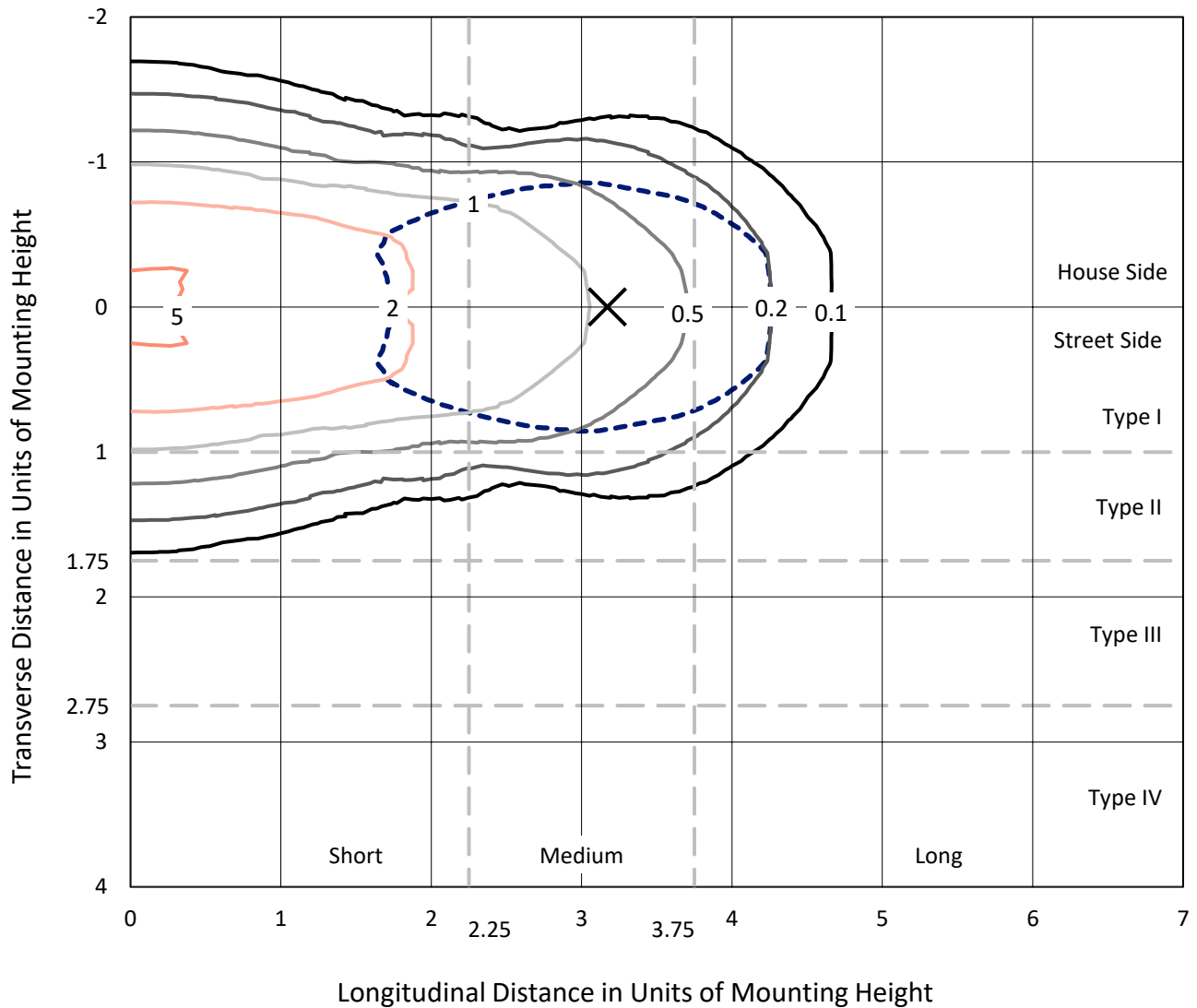
Lumens per Lamp: N/A  
Luminaire Lumens: 18296 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.201  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 10.503  
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

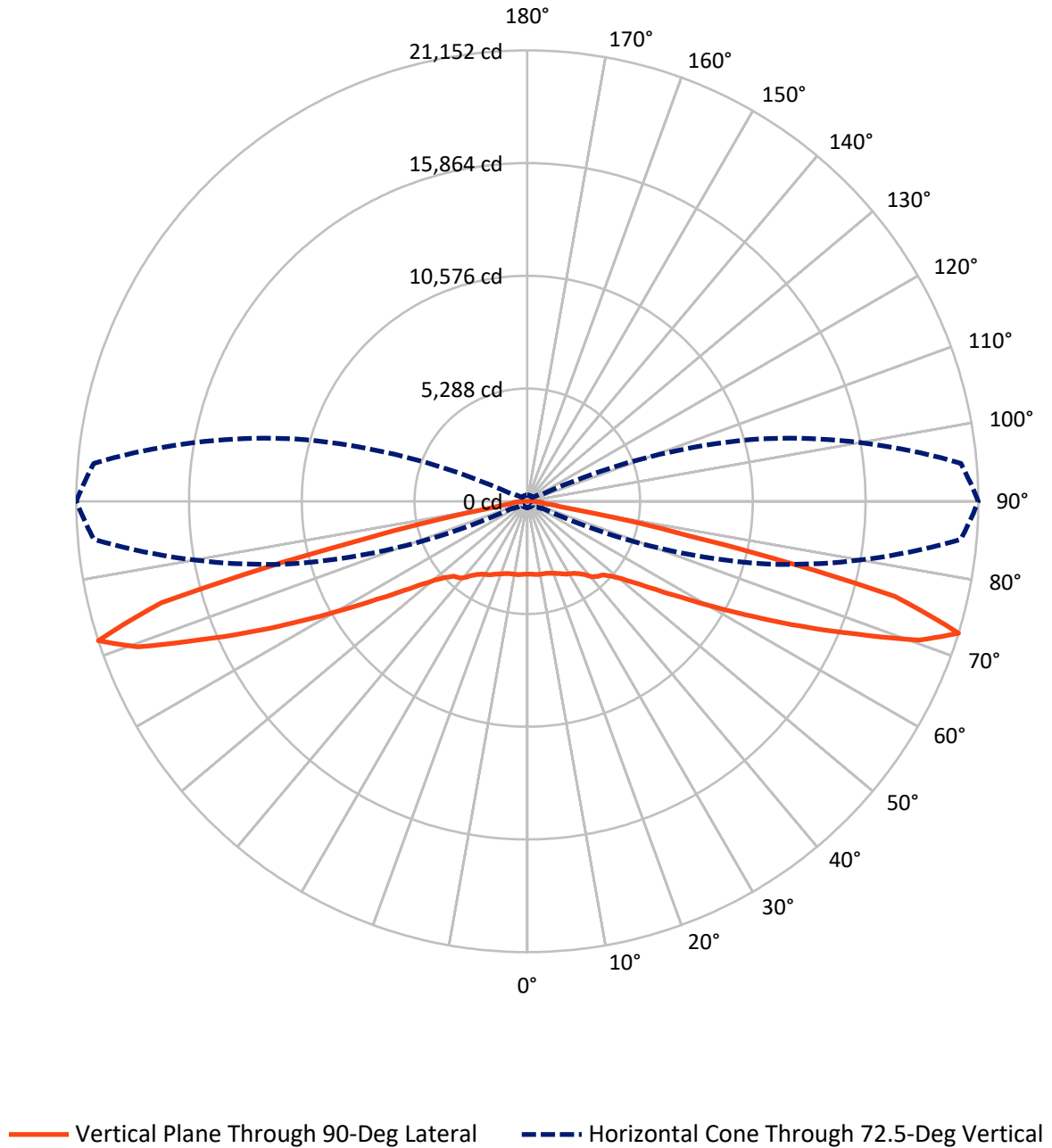
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9148.0	0.0	9148.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9148.0	0.0	9148.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18296.0	0.0	18296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.5	1.8
10°-20°	1013.6	5.5
20°-30°	1690.0	9.2
30°-40°	2324.3	12.7
40°-50°	2838.7	15.5
50°-60°	3283.2	17.9
60°-70°	3914.7	21.4
70°-80°	2732.2	14.9
80°-90°	167.8	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°	18296.0	100.0
0°-180°	18296.0	100.0

**Coefficient of Utilization**



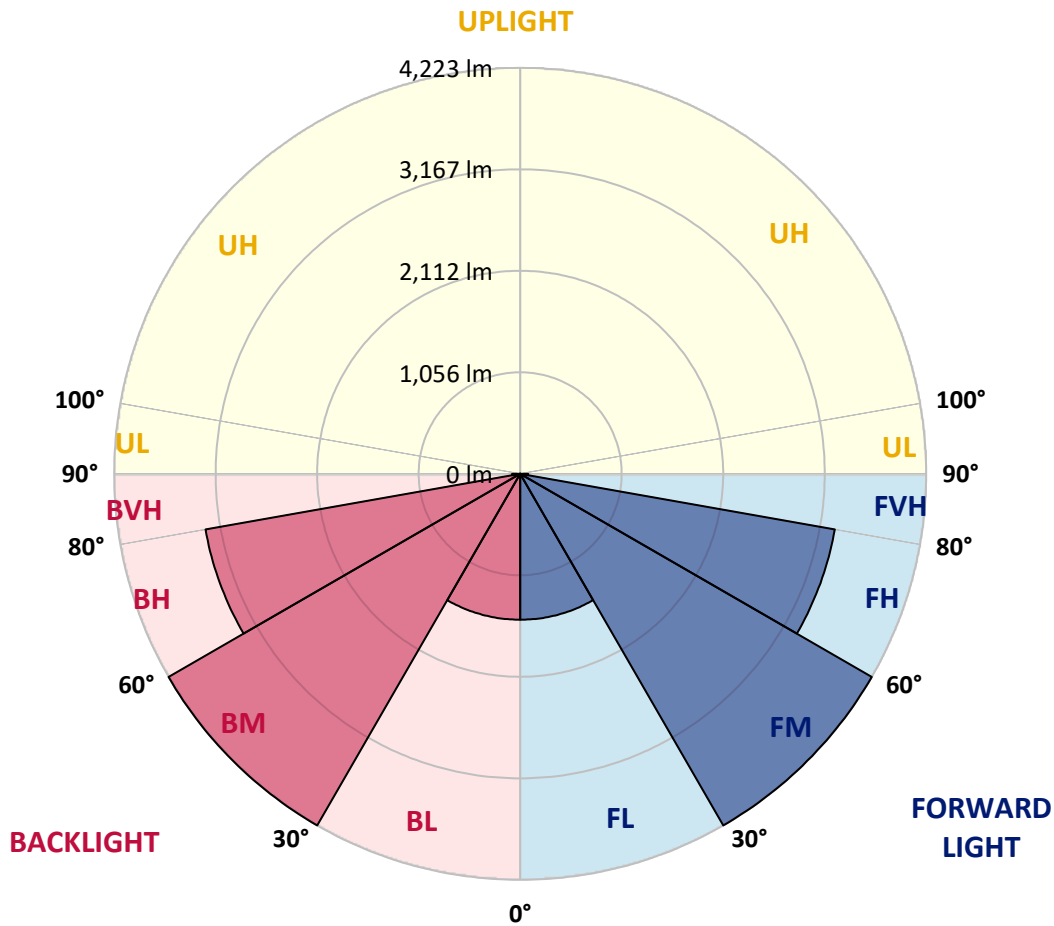
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.6	8.3			
FM (30°-60°)	4223.1	23.1			
FH (60°-80°)	3323.4	18.2			G2/5000
FVH (80°-90°)	83.9	0.5			G1/100
BL (0°-30°)	1517.6	8.3	B3/2500		
BM (30°-60°)	4223.1	23.1	B3/5000		
BH (60°-80°)	3323.4	18.2	B4/5000		G4/5000
BVH (80°-90°)	83.9	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 I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8	3418.8
2.5°	3421.7	3425.6	3425.6	3422.7	3429.5	3423.7	3423.7	3420.7	3423.7	3420.7	3420.7
5°	3439.2	3444.1	3446.0	3445.1	3453.8	3448.9	3448.9	3445.1	3446.0	3443.1	3443.1
7.5°	3472.3	3479.1	3483.0	3487.8	3500.5	3494.6	3490.8	3479.1	3474.2	3466.4	3466.4
10°	3483.0	3490.8	3503.4	3528.7	3557.8	3558.8	3547.2	3518.0	3495.6	3478.1	3475.2
12.5°	3449.9	3460.6	3486.9	3538.4	3603.5	3629.8	3611.3	3562.7	3519.0	3487.8	3483.0
15°	3408.1	3419.8	3459.6	3537.4	3633.7	3694.9	3693.0	3628.8	3558.8	3510.2	3502.4
17.5°	3343.0	3354.6	3412.0	3520.9	3657.0	3758.2	3785.4	3719.3	3621.1	3555.9	3545.2
20°	3225.3	3236.0	3315.7	3468.4	3664.8	3825.2	3896.2	3837.9	3715.4	3626.9	3610.4
22.5°	3072.6	3089.2	3182.5	3378.0	3646.3	3895.3	4022.6	3982.8	3825.2	3702.7	3680.4
25°	2909.3	2926.8	3035.7	3267.1	3598.7	3945.8	4172.4	4147.1	3949.7	3797.0	3765.9
27.5°	2768.3	2786.8	2905.4	3157.2	3524.8	3965.3	4320.2	4332.8	4100.4	3901.1	3868.0
30°	2657.4	2674.9	2801.4	3068.8	3429.5	3945.8	4449.5	4537.0	4254.1	3991.5	3943.9
32.5°	2535.9	2558.3	2691.5	2960.8	3316.7	3899.1	4562.3	4757.7	4432.0	4088.8	4028.5
35°	2382.3	2402.7	2542.7	2813.0	3168.9	3824.3	4656.6	5002.8	4686.8	4236.6	4169.5
37.5°	2195.6	2215.0	2354.1	2628.3	3022.1	3719.3	4728.6	5278.9	4990.1	4449.5	4360.0
40°	2007.9	2026.4	2156.7	2422.1	2846.1	3585.1	4753.8	5549.2	5338.2	4742.2	4646.9
42.5°	1835.8	1852.3	1971.9	2218.9	2648.7	3413.9	4720.8	5784.5	5650.4	4946.4	4823.9
45°	1677.3	1691.9	1797.9	2028.3	2443.5	3205.9	4621.6	6037.4	6021.8	5092.2	4926.9
47.5°	1496.5	1511.0	1620.9	1843.6	2238.4	2961.8	4453.4	6286.3	6538.1	5422.8	5232.2
50°	1275.7	1288.4	1401.2	1630.6	2025.4	2702.2	4220.0	6481.7	7189.6	5923.6	5684.4
52.5°	1014.2	1027.8	1137.7	1367.1	1772.6	2423.1	3912.8	6609.1	7942.2	6654.8	6360.2
55°	754.5	764.3	859.6	1065.7	1459.5	2105.1	3527.7	6645.1	8795.9	7654.4	7285.9
57.5°	547.4	553.3	614.5	768.2	1106.5	1707.5	3060.0	6551.7	9812.0	8935.9	8472.1
60°	443.4	445.3	463.8	531.9	769.1	1258.2	2495.1	6230.9	10914.7	10588.0	10003.6
62.5°	402.6	402.6	407.4	425.9	520.2	830.4	1811.5	5565.8	12097.1	12675.6	11892.9
65°	374.4	374.4	376.3	385.1	410.3	529.0	1143.5	4482.6	13093.7	15121.1	14131.2
67.5°	349.1	350.0	349.1	352.0	366.6	390.9	663.1	3096.0	13630.5	17655.1	16586.4
70°	322.8	324.8	319.9	319.9	331.6	332.5	415.2	1697.7	13185.1	19778.7	19497.7
72.5°	291.7	294.6	286.8	284.9	293.7	289.8	312.1	814.8	11320.2	20412.7	21151.6
75°	264.5	268.4	250.9	246.0	246.0	243.1	253.8	418.1	7347.1	16651.6	17810.6
77.5°	240.2	248.0	219.8	204.2	200.3	191.6	207.1	255.7	3213.6	7817.7	7655.4
80°	198.4	209.1	180.9	162.4	155.6	145.9	163.4	178.9	955.8	1815.4	1738.6
82.5°	147.8	152.7	128.4	115.7	109.9	103.1	122.5	124.5	311.2	642.7	726.3
85°	94.3	96.3	78.8	68.1	65.1	62.2	77.8	68.1	118.6	472.6	686.5
87.5°	33.1	37.9	30.1	27.2	29.2	24.3	36.0	20.4	33.1	333.5	413.3
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)