

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: P966260

Luminaire Tested: **NVN-SB4B-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966260  
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-SB4B-827-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

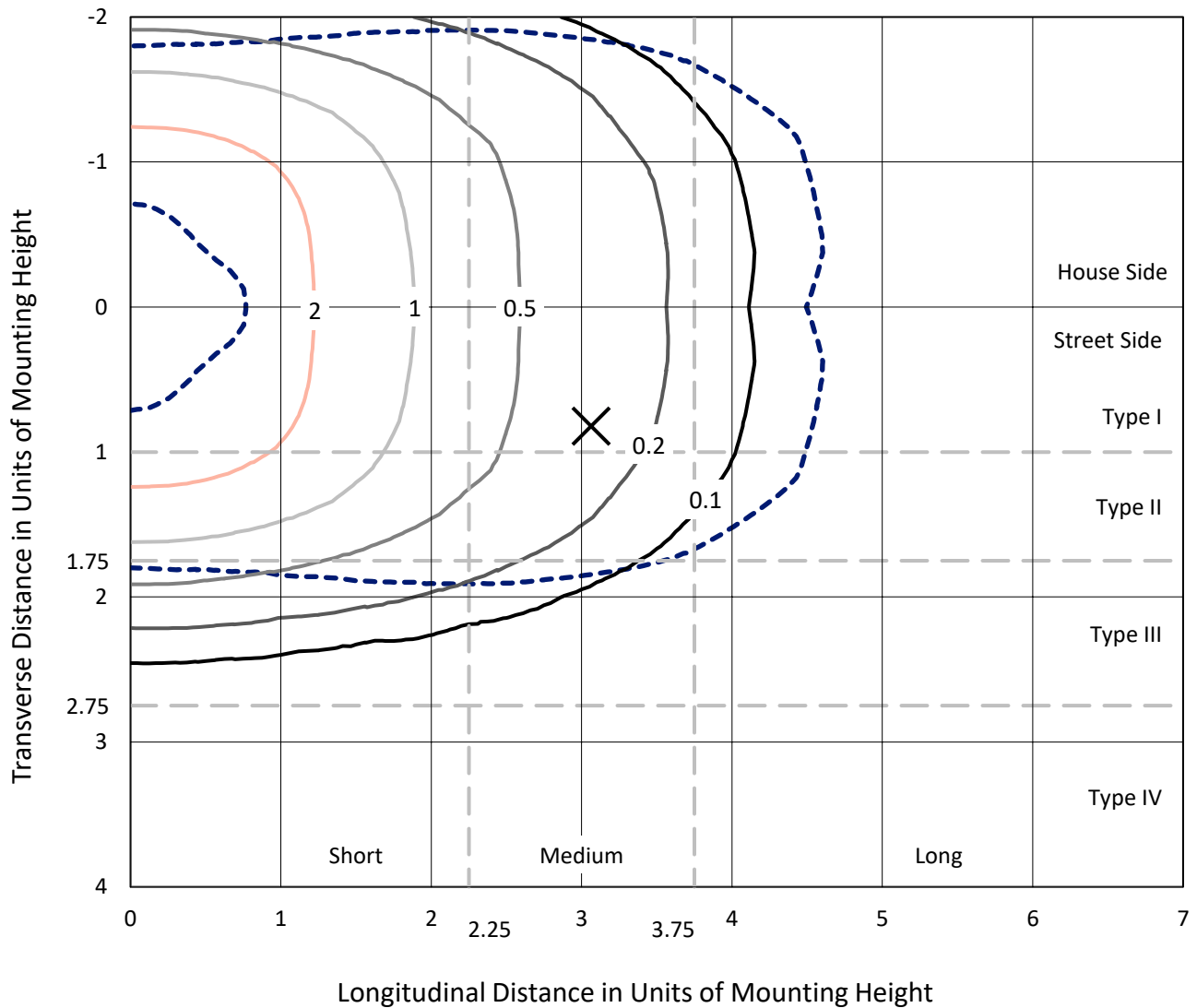
Lumens per Lamp: N/A  
Luminaire Lumens: 20713.2 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

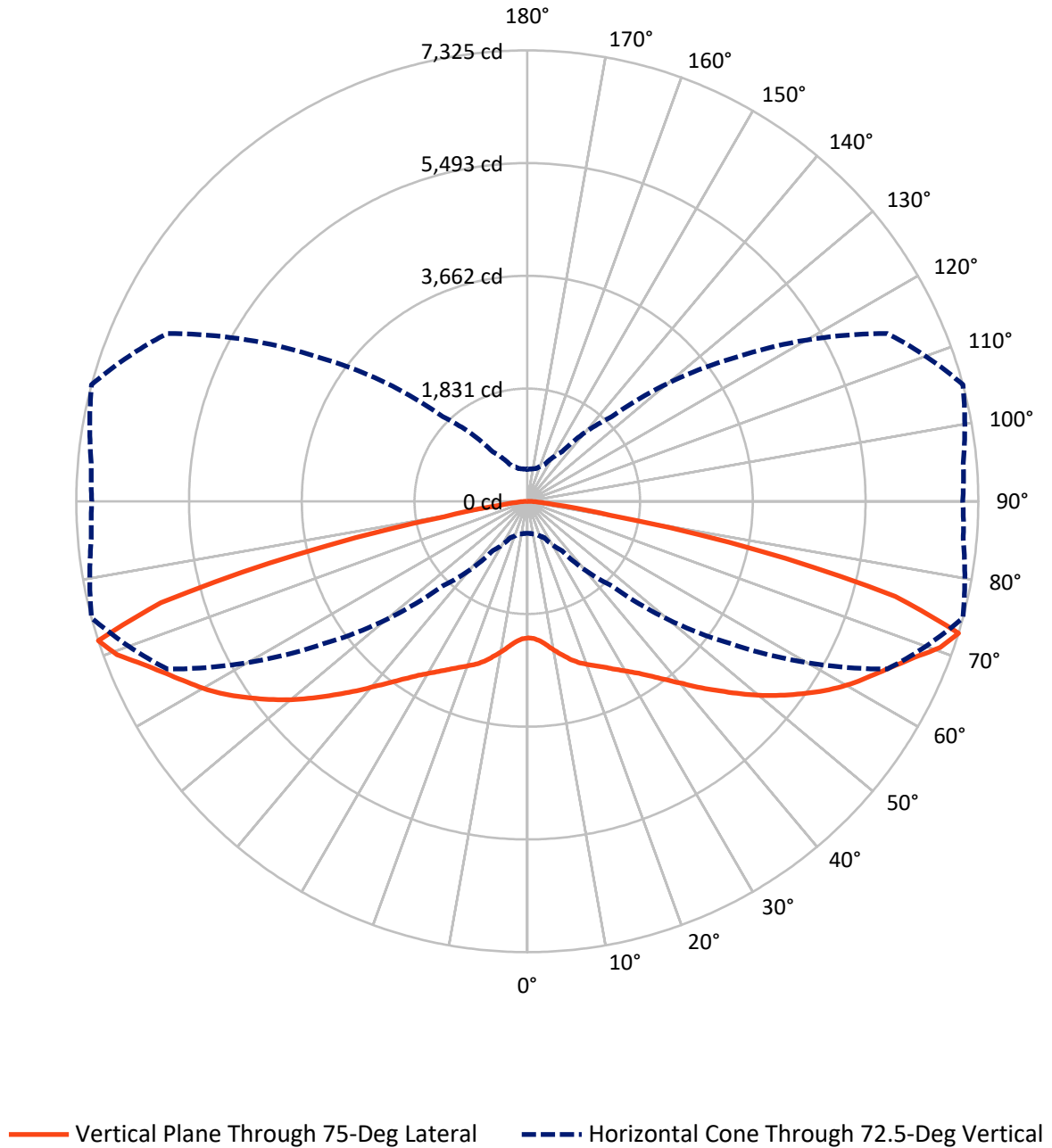
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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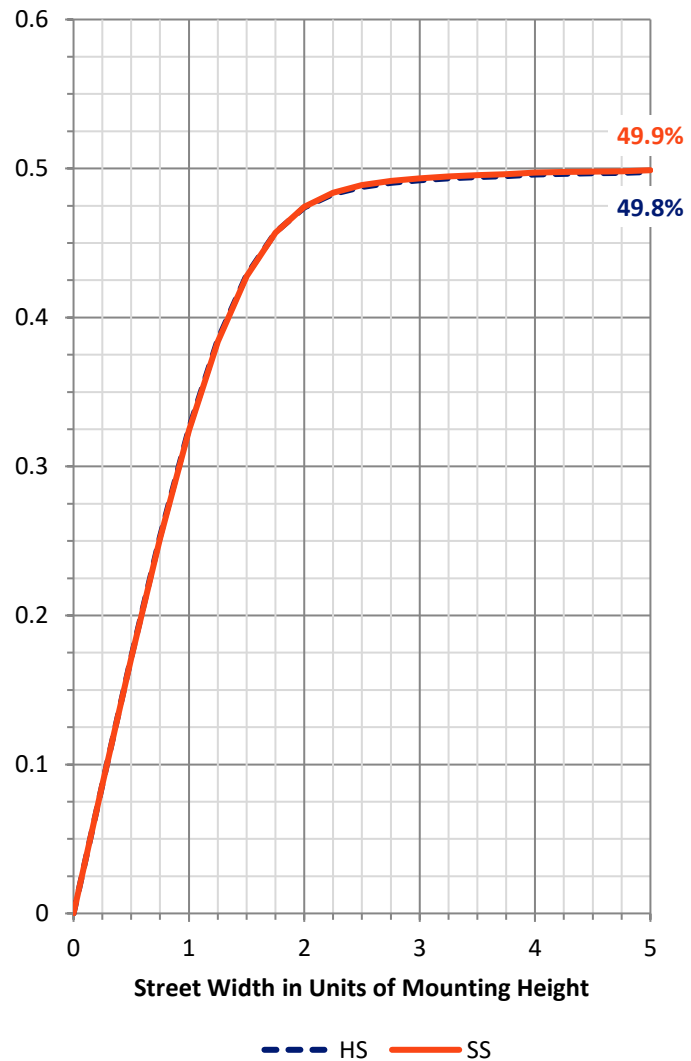
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10356.6	0.0	10356.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10356.6	0.0	10356.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20713.2	0.0	20713.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	1.0
10°-20°	716.9	3.5
20°-30°	1385.2	6.7
30°-40°	2338.9	11.3
40°-50°	3709.3	17.9
50°-60°	4966.3	24.0
60°-70°	4726.3	22.8
70°-80°	2466.3	11.9
80°-90°	186.7	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°	20713.2	100.0
0°-180°	20713.2	100.0



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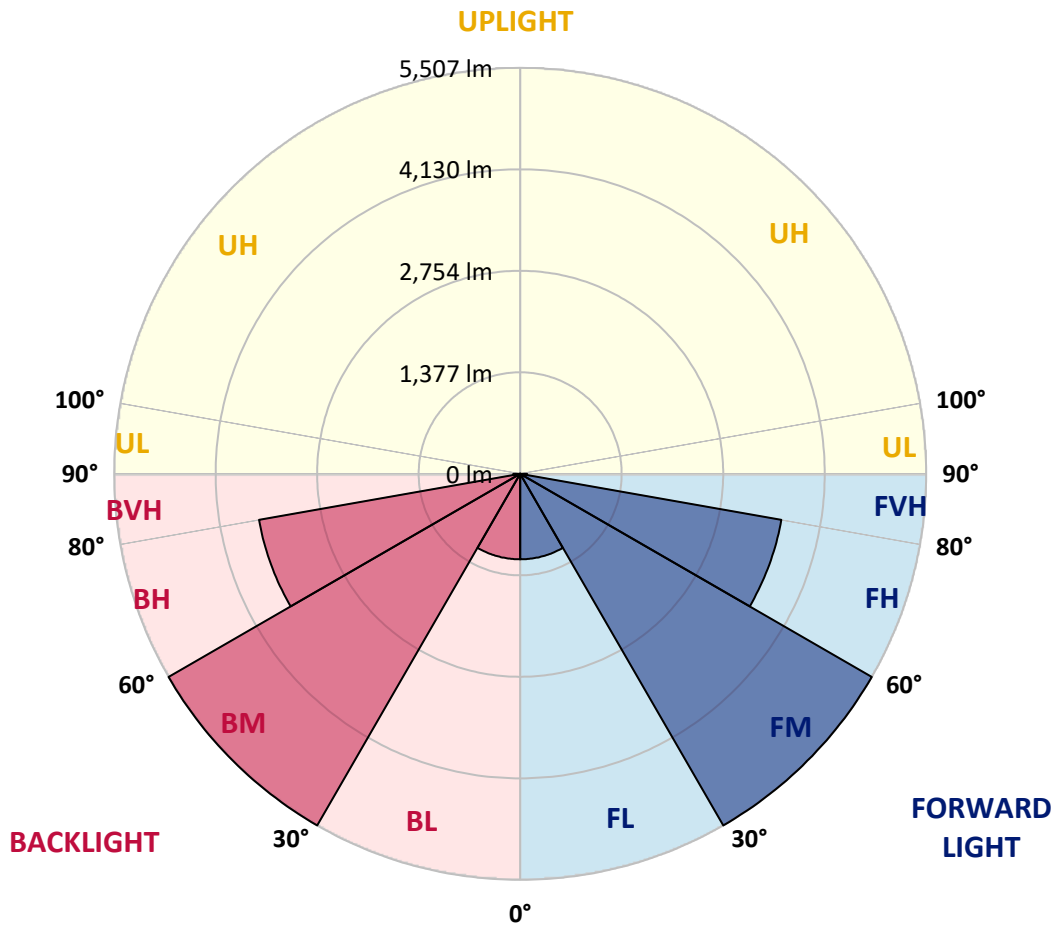
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.7	5.6			
FM (30°-60°)	5507.3	26.6			
FH (60°-80°)	3596.3	17.4			G2/5000
FVH (80°-90°)	93.3	0.5			G1/100
BL (0°-30°)	1159.7	5.6	B3/2500		
BM (30°-60°)	5507.3	26.6	B4/8500		
BH (60°-80°)	3596.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	93.3	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°	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7
2.5°	2218.7	2216.7	2218.7	2220.9	2219.8	2219.8	2225.1	2228.2	2234.6	2233.6	2232.6
5°	2204.0	2202.9	2211.3	2220.9	2228.2	2241.0	2256.8	2268.4	2283.3	2286.5	2286.5
7.5°	2196.6	2193.4	2208.2	2225.1	2248.3	2280.1	2310.8	2342.5	2367.9	2376.4	2378.4
10°	2201.8	2202.9	2223.0	2254.7	2291.7	2336.2	2379.5	2433.5	2469.4	2477.8	2486.3
12.5°	2226.2	2224.0	2257.9	2308.6	2359.4	2415.4	2466.3	2525.4	2564.5	2584.6	2593.1
15°	2270.6	2266.4	2313.9	2389.1	2463.1	2528.6	2569.9	2625.9	2671.4	2696.8	2706.3
17.5°	2323.5	2325.5	2387.9	2485.2	2582.6	2656.6	2695.7	2724.2	2759.2	2781.3	2792.0
20°	2416.5	2420.7	2490.5	2605.9	2716.9	2801.4	2833.2	2822.6	2832.2	2849.1	2861.8
22.5°	2541.3	2543.4	2621.6	2746.5	2862.8	2955.9	2977.0	2933.7	2907.2	2918.9	2927.3
25°	2686.2	2700.0	2778.2	2906.2	3025.7	3114.5	3124.0	3058.5	2992.9	2996.1	3001.3
27.5°	2862.8	2875.5	2954.8	3081.8	3203.3	3280.5	3279.5	3191.7	3095.5	3071.1	3078.6
30°	3054.2	3067.9	3149.4	3280.5	3393.7	3461.4	3446.6	3341.9	3204.4	3158.9	3164.2
32.5°	3281.6	3290.0	3372.6	3503.7	3608.4	3662.3	3631.7	3502.6	3331.4	3279.5	3292.2
35°	3556.5	3569.3	3630.6	3754.4	3846.3	3890.8	3838.9	3686.6	3494.1	3436.0	3444.5
37.5°	3870.7	3862.2	3932.0	4042.0	4118.1	4145.6	4074.8	3894.0	3680.3	3611.6	3624.3
40°	4198.5	4194.3	4270.5	4376.1	4417.4	4434.4	4329.6	4131.9	3895.0	3821.0	3845.3
42.5°	4495.6	4492.5	4595.1	4712.4	4762.2	4743.2	4611.0	4384.6	4143.5	4058.9	4080.0
45°	4733.7	4729.3	4855.2	5020.2	5117.5	5085.7	4908.1	4663.9	4395.2	4307.5	4327.5
47.5°	4916.6	4918.7	5054.1	5258.1	5428.4	5440.1	5211.6	4948.3	4672.3	4572.8	4602.5
50°	5048.7	5055.1	5200.0	5426.3	5659.0	5761.5	5521.5	5240.2	4958.8	4846.8	4880.6
52.5°	5081.5	5093.2	5267.7	5533.2	5807.0	6002.7	5836.7	5520.4	5230.7	5123.9	5151.3
55°	4907.1	4930.4	5151.3	5524.6	5898.0	6161.4	6113.7	5804.9	5504.6	5394.6	5425.2
57.5°	4506.2	4539.0	4797.1	5284.6	5877.9	6270.2	6328.5	6077.7	5778.5	5672.8	5697.1
60°	3944.7	3983.9	4231.3	4763.3	5594.4	6310.4	6479.6	6343.2	6030.2	5927.6	5949.8
62.5°	3097.5	3148.4	3444.5	4068.4	4995.8	6123.2	6608.7	6583.3	6256.5	6128.6	6143.3
65°	1987.2	2041.1	2353.1	3090.2	4197.5	5550.1	6648.9	6817.0	6495.5	6316.8	6339.0
67.5°	1198.2	1222.5	1377.0	1873.0	3067.9	4686.0	6308.4	7076.1	6774.7	6552.6	6569.5
70°	766.7	780.4	872.5	1099.8	1734.4	3419.1	5464.4	7124.8	7113.1	6794.8	6792.7
72.5°	520.3	524.6	548.9	651.5	981.4	1942.7	4030.3	6450.0	7324.6	7106.7	7072.9
75°	380.7	404.0	443.1	461.0	557.3	970.9	2309.7	4531.6	6173.0	6268.2	6037.6
77.5°	283.4	284.4	338.5	359.6	397.6	517.1	977.1	2529.7	3832.6	4024.0	3589.3
80°	240.1	227.3	226.3	289.8	299.3	322.6	436.8	873.5	1372.7	832.3	629.2
82.5°	199.9	186.1	168.2	226.3	204.1	197.7	189.3	355.4	436.8	214.6	183.0
85°	139.6	133.2	126.9	148.0	116.3	99.4	90.9	166.0	184.0	90.9	80.4
87.5°	60.3	62.4	63.4	65.6	48.7	34.8	34.8	46.5	46.5	36.0	26.4
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)