

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: P970473

Luminaire Tested: **NVN-SB6B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-827-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

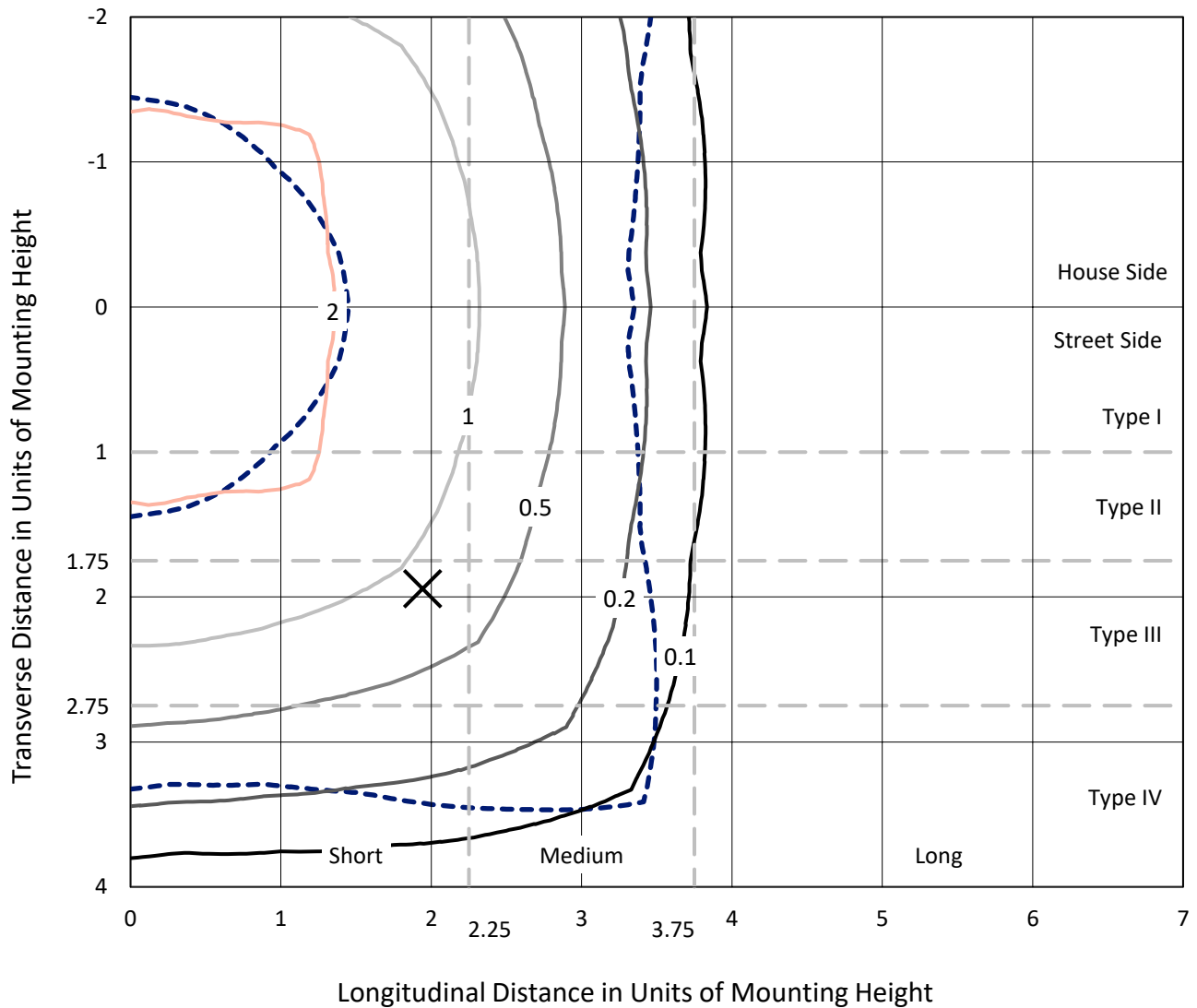
Lumens per Lamp: N/A  
Luminaire Lumens: 30785.9 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

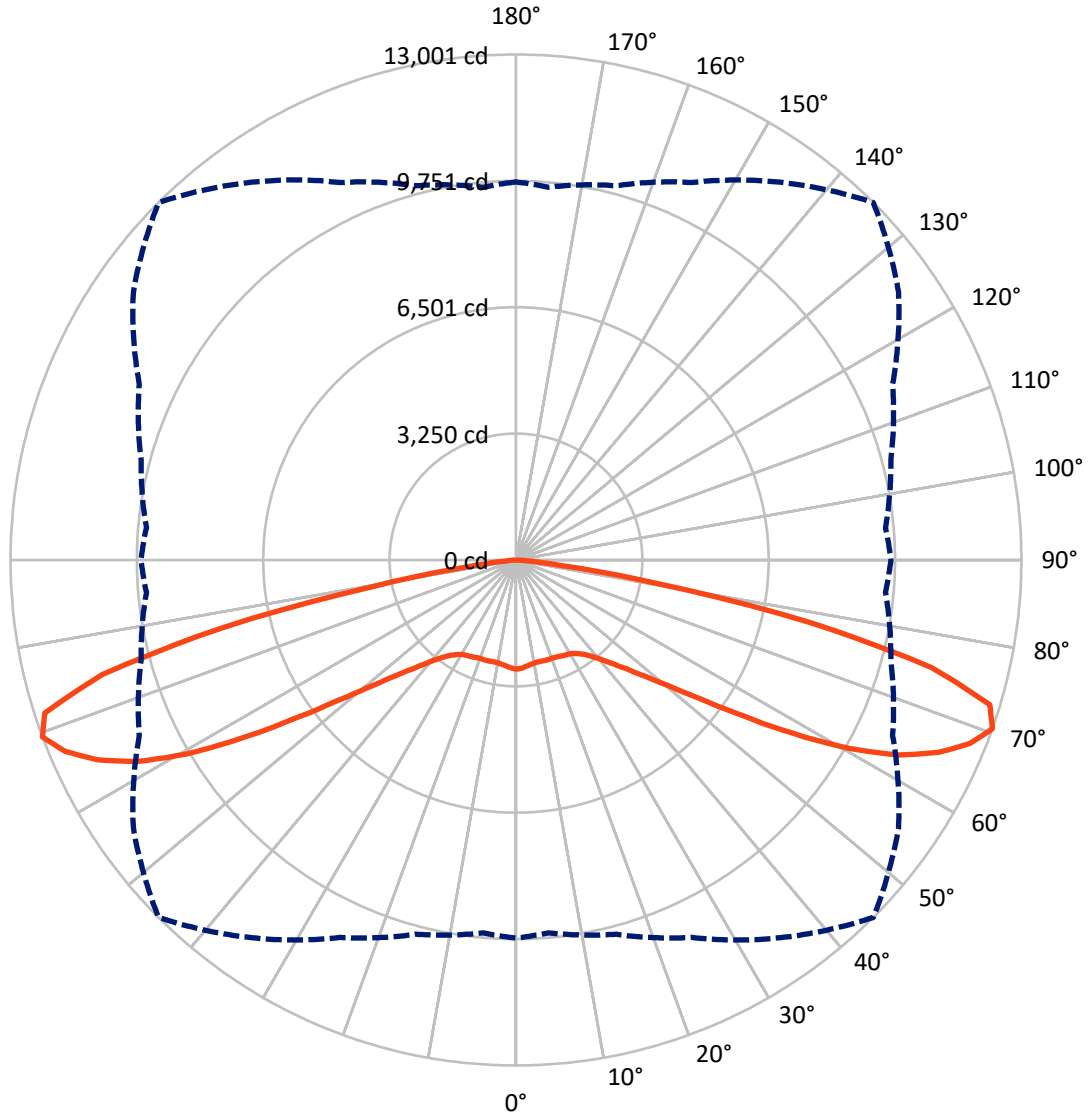
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15392.9	0.0	15392.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15392.9	0.0	15392.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30785.9	0.0	30785.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.2	0.8
10°-20°	767.1	2.5
20°-30°	1276.5	4.1
30°-40°	1930.4	6.3
40°-50°	3207.9	10.4
50°-60°	6053.3	19.7
60°-70°	10221.2	33.2
70°-80°	6716.4	21.8
80°-90°	351.9	1.1
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°	30785.9	100.0
0°-180°	30785.9	100.0



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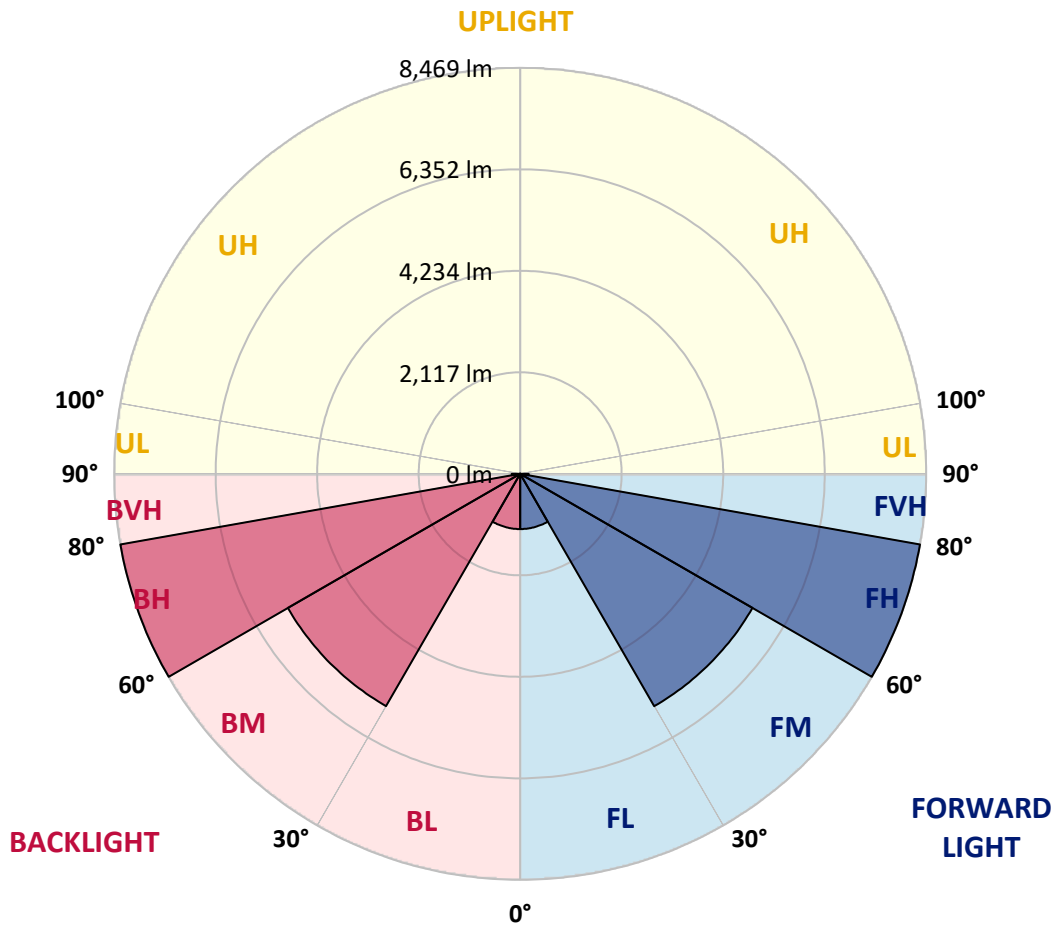
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.4	3.7			
FM (30°-60°)	5595.8	18.2			
FH (60°-80°)	8468.8	27.5			G4/12000
FVH (80°-90°)	175.9	0.6			G2/225
BL (0°-30°)	1152.4	3.7	B3/2500		
BM (30°-60°)	5595.8	18.2	B4/8500		
BH (60°-80°)	8468.8	27.5	B5		G4/12000
BVH (80°-90°)	175.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3	2808.3
2.5°	2790.7	2798.7	2795.5	2789.1	2789.1	2784.3	2789.1	2792.3	2797.1	2800.3	2798.7
5°	2753.9	2760.3	2758.7	2753.9	2755.5	2750.7	2753.9	2758.7	2761.9	2763.5	2763.5
7.5°	2721.9	2728.2	2725.1	2717.1	2717.1	2712.3	2713.9	2718.7	2723.5	2725.1	2725.1
10°	2713.9	2720.2	2710.7	2697.9	2693.1	2686.7	2688.3	2693.1	2702.7	2707.4	2707.4
12.5°	2717.1	2721.9	2712.3	2693.1	2688.3	2681.9	2681.9	2686.7	2699.4	2705.9	2707.4
15°	2726.7	2731.5	2717.1	2696.3	2691.4	2686.7	2685.1	2691.4	2705.9	2717.1	2718.7
17.5°	2744.3	2749.0	2726.7	2697.9	2691.4	2693.1	2691.4	2696.3	2718.7	2739.5	2739.5
20°	2760.3	2763.5	2733.1	2697.9	2691.4	2693.1	2691.4	2701.1	2729.9	2758.7	2760.3
22.5°	2765.0	2768.3	2739.5	2709.1	2704.3	2705.9	2704.3	2713.9	2741.1	2769.9	2769.9
25°	2766.7	2771.5	2749.0	2725.1	2733.1	2736.2	2733.1	2734.7	2755.5	2781.1	2779.5
27.5°	2790.7	2797.1	2776.3	2755.5	2760.3	2758.7	2763.5	2768.3	2784.3	2809.9	2803.5
30°	2840.3	2845.1	2827.5	2806.7	2803.5	2792.3	2806.7	2822.6	2840.3	2862.7	2857.9
32.5°	2921.9	2931.5	2909.1	2886.7	2872.3	2865.9	2877.1	2904.3	2928.3	2952.3	2942.7
35°	3057.9	3064.3	3043.5	3001.9	2976.3	2976.3	2985.9	3021.1	3059.5	3090.0	3078.7
37.5°	3250.0	3258.0	3221.2	3171.6	3133.1	3133.1	3145.9	3182.7	3240.3	3283.6	3267.5
40°	3483.6	3494.7	3448.4	3397.2	3360.4	3353.9	3370.0	3411.5	3465.9	3520.4	3502.7
42.5°	3765.2	3777.9	3717.2	3672.4	3643.6	3643.6	3651.6	3690.0	3739.6	3806.7	3802.0
45°	4125.2	4147.7	4064.4	4019.6	3992.4	3998.8	4003.6	4037.3	4082.1	4158.8	4155.7
47.5°	4554.1	4576.5	4488.5	4442.0	4437.2	4467.7	4448.5	4472.5	4496.5	4584.5	4558.9
50°	5040.5	5079.0	5018.1	5014.9	5024.5	5080.5	5035.7	5048.5	5021.4	5077.3	5043.7
52.5°	5635.8	5691.8	5680.5	5699.8	5807.0	5922.2	5819.8	5775.0	5672.6	5690.2	5630.9
55°	6357.5	6442.2	6458.3	6573.5	6816.7	7051.9	6834.3	6653.5	6435.9	6395.9	6333.5
57.5°	7178.4	7245.5	7322.4	7557.6	8012.0	8429.7	8012.0	7612.0	7269.5	7187.9	7130.3
60°	8061.6	8144.9	8218.4	8565.7	9241.0	9828.2	9228.2	8592.9	8140.0	8029.6	7933.6
62.5°	9010.6	9117.8	9168.9	9554.6	10341.8	11042.7	10353.1	9583.4	9081.0	8962.5	8866.6
65°	9921.1	10009.0	10066.6	10477.9	11230.0	11932.4	11281.2	10522.6	10005.8	9850.7	9773.8
67.5°	10345.1	10393.1	10533.9	10999.6	11793.2	12594.9	11927.6	11049.2	10471.5	10199.5	10202.6
70°	9724.2	9626.6	9965.9	10711.6	11860.5	13001.3	12014.0	10689.1	9981.9	9540.2	9645.8
72.5°	7514.4	7346.4	7935.2	9210.5	11092.3	12742.1	11169.1	9282.6	8301.7	7405.5	7627.9
75°	4088.4	3898.0	4710.9	6323.8	8845.8	11044.4	9048.9	6504.6	5245.3	4058.0	4322.0
77.5°	1153.7	1081.7	1737.8	3059.5	5320.6	7754.4	5525.4	3126.8	2061.0	1222.5	1358.5
80°	353.6	342.5	464.0	921.7	2259.4	3714.0	2171.5	932.9	590.5	372.8	393.6
82.5°	209.6	192.0	230.4	336.0	576.0	1166.6	560.1	350.4	281.7	188.8	204.8
85°	120.0	112.0	136.0	163.2	193.6	248.0	161.6	166.5	150.4	100.9	105.6
87.5°	49.6	44.8	52.8	51.2	44.8	57.6	43.3	51.2	60.8	40.0	36.8
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)