

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: P884662

Luminaire Tested: **NVN-SB5C-830-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-830-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

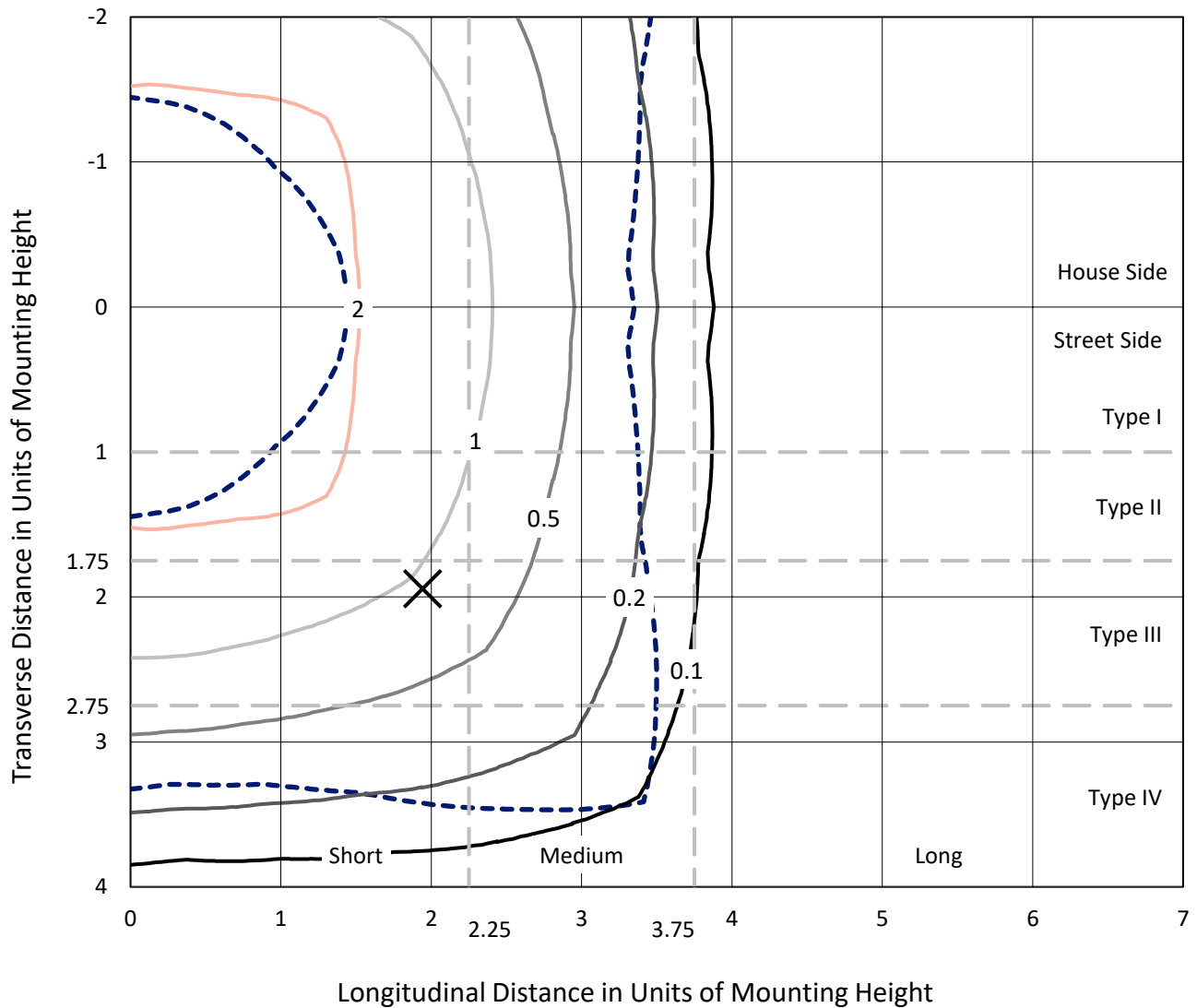
Lumens per Lamp: N/A  
Luminaire Lumens: 33635 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

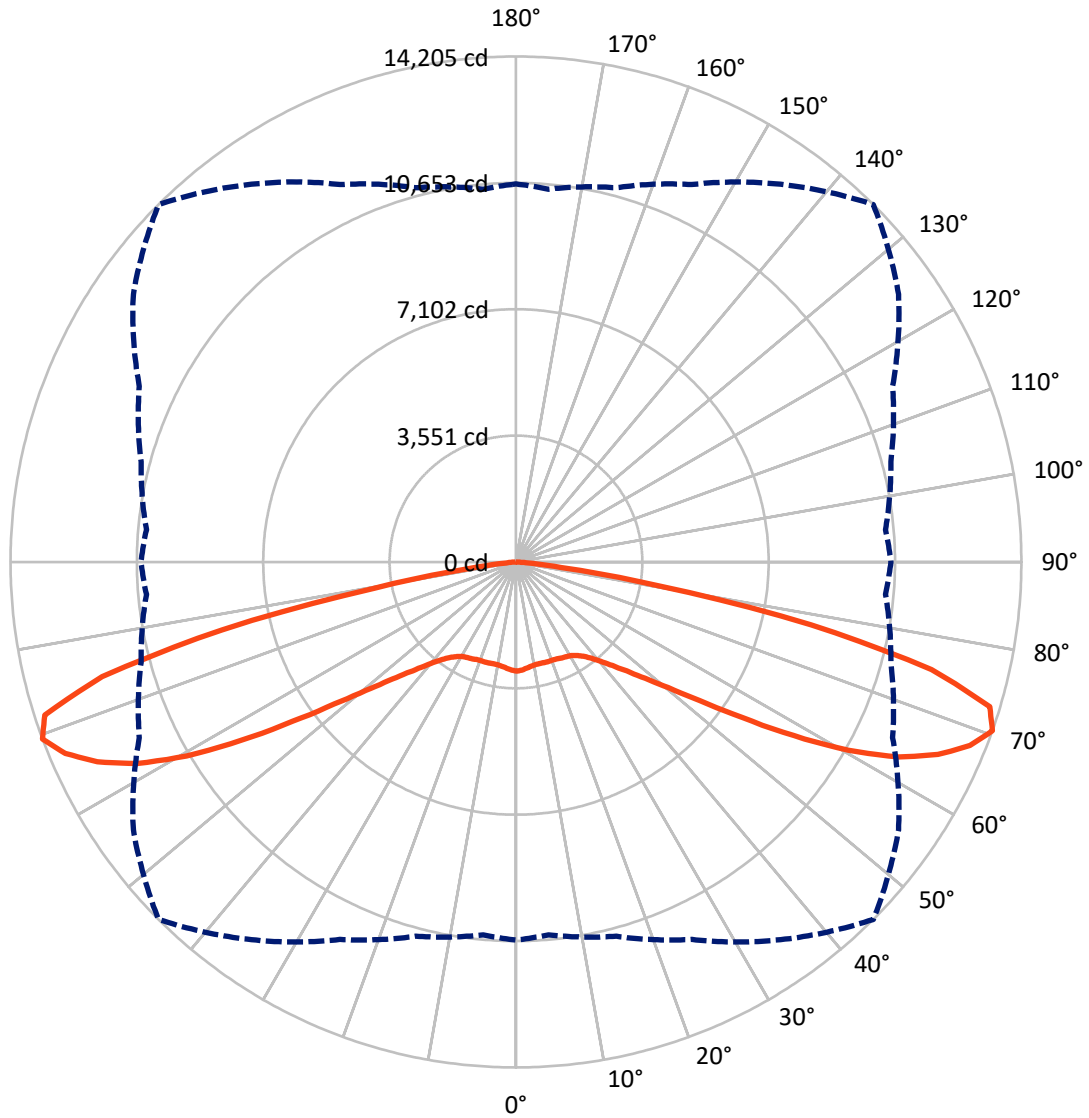
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	16817.5	0.0	16817.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16817.5	0.0	16817.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33635.0	0.0	33635.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	0.8
10°-20°	838.0	2.5
20°-30°	1394.6	4.1
30°-40°	2109.1	6.3
40°-50°	3504.8	10.4
50°-60°	6613.5	19.7
60°-70°	11167.1	33.2
70°-80°	7338.0	21.8
80°-90°	384.4	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°	33635.0	100.0
0°-180°	33635.0	100.0



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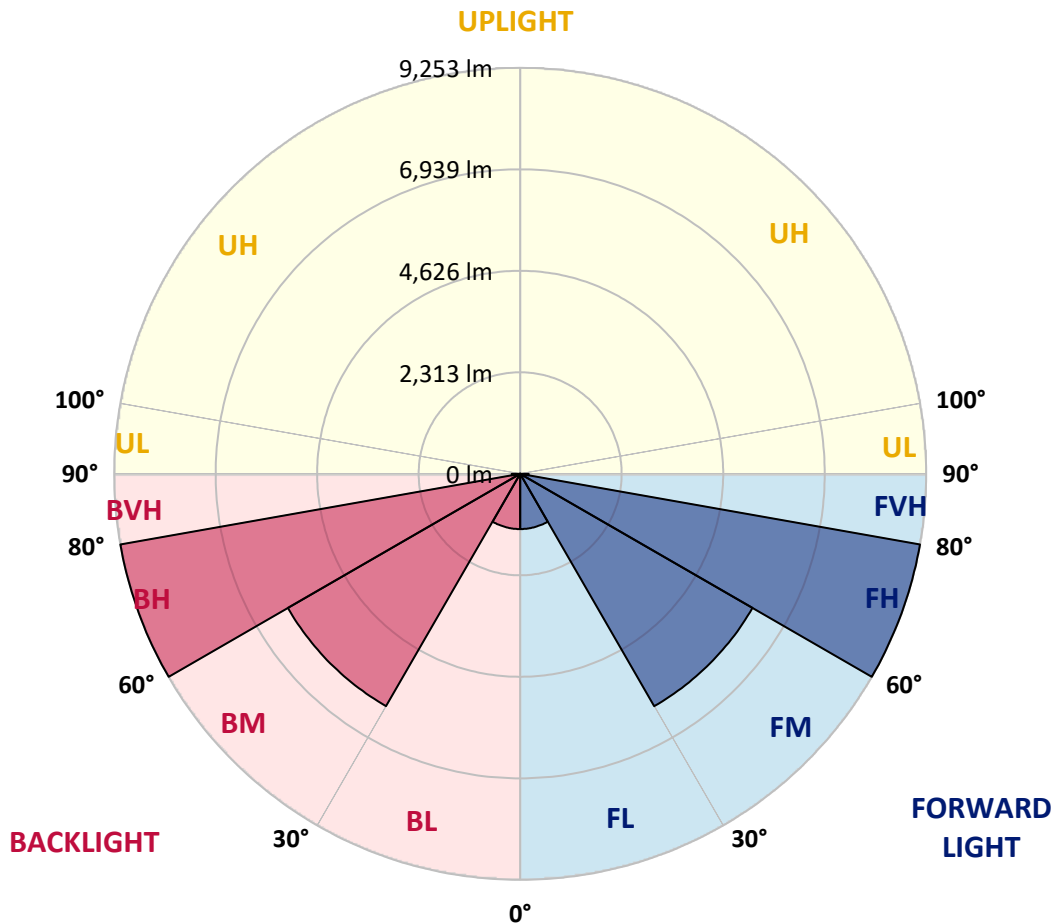
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.0	3.7			
FM (30°-60°)	6113.7	18.2			
FH (60°-80°)	9252.5	27.5			G4/12000
FVH (80°-90°)	192.2	0.6			G2/225
BL (0°-30°)	1259.0	3.7	B3/2500		
BM (30°-60°)	6113.7	18.2	B4/8500		
BH (60°-80°)	9252.5	27.5	B5		G4/12000
BVH (80°-90°)	192.2	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°	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2	3068.2
2.5°	3049.0	3057.7	3054.2	3047.2	3047.2	3042.0	3047.2	3050.7	3056.0	3059.4	3057.7
5°	3008.7	3015.7	3014.0	3008.7	3010.5	3005.3	3008.7	3014.0	3017.5	3019.2	3019.2
7.5°	2973.8	2980.8	2977.3	2968.5	2968.5	2963.3	2965.0	2970.3	2975.5	2977.3	2977.3
10°	2965.0	2972.0	2961.5	2947.6	2942.3	2935.3	2937.1	2942.3	2952.8	2958.0	2958.0
12.5°	2968.5	2973.8	2963.3	2942.3	2937.1	2930.1	2930.1	2935.3	2949.3	2956.3	2958.0
15°	2979.0	2984.3	2968.5	2945.8	2940.6	2935.3	2933.6	2940.6	2956.3	2968.5	2970.3
17.5°	2998.3	3003.5	2979.0	2947.6	2940.6	2942.3	2940.6	2945.8	2970.3	2993.0	2993.0
20°	3015.7	3019.2	2986.0	2947.6	2940.6	2942.3	2940.6	2951.1	2982.5	3014.0	3015.7
22.5°	3021.0	3024.5	2993.0	2959.8	2954.6	2956.3	2954.6	2965.0	2994.8	3026.2	3026.2
25°	3022.7	3028.0	3003.5	2977.3	2986.0	2989.5	2986.0	2987.8	3010.5	3038.5	3036.7
27.5°	3049.0	3056.0	3033.2	3010.5	3015.7	3014.0	3019.2	3024.5	3042.0	3069.9	3062.9
30°	3103.2	3108.4	3089.2	3066.4	3062.9	3050.7	3066.4	3083.9	3103.2	3127.6	3122.4
32.5°	3192.3	3202.8	3178.3	3153.9	3138.1	3131.1	3143.4	3173.1	3199.3	3225.5	3215.0
35°	3340.9	3347.9	3325.2	3279.7	3251.8	3251.8	3262.2	3300.7	3342.7	3375.9	3363.6
37.5°	3550.7	3559.4	3519.2	3465.0	3423.1	3423.1	3437.1	3477.3	3540.2	3587.4	3569.9
40°	3806.0	3818.2	3767.5	3711.5	3671.3	3664.3	3681.8	3727.3	3786.7	3846.2	3826.9
42.5°	4113.6	4127.6	4061.2	4012.2	3980.8	3980.8	3989.5	4031.5	4085.7	4159.1	4153.9
45°	4507.0	4531.5	4440.6	4391.6	4361.9	4368.9	4374.1	4410.8	4459.8	4543.7	4540.2
47.5°	4975.5	5000.0	4903.9	4853.2	4847.9	4881.1	4860.2	4886.4	4912.6	5008.8	4980.8
50°	5507.0	5549.0	5482.5	5479.0	5489.5	5550.7	5501.8	5515.7	5486.0	5547.2	5510.5
52.5°	6157.4	6218.5	6206.3	6227.3	6344.4	6470.3	6358.4	6309.5	6197.6	6216.8	6152.1
55°	6945.8	7038.5	7056.0	7181.8	7447.6	7704.6	7466.8	7269.2	7031.5	6987.8	6919.6
57.5°	7842.7	7916.1	8000.0	8257.0	8753.5	9209.8	8753.5	8316.5	7942.3	7853.2	7790.2
60°	8807.7	8898.6	8979.0	9358.4	10096.2	10737.8	10082.2	9388.1	8893.4	8772.7	8667.9
62.5°	9844.4	9961.6	10017.5	10438.8	11299.0	12064.7	11311.2	10470.3	9921.4	9792.0	9687.1
65°	10839.2	10935.3	10998.3	11447.6	12269.3	13036.7	12325.2	11496.5	10931.8	10762.3	10678.3
67.5°	11302.5	11354.9	11508.8	12017.5	12884.6	13760.5	13031.5	12071.7	11440.6	11143.4	11146.9
70°	10624.2	10517.5	10888.1	11702.8	12958.1	14204.6	13125.9	11678.3	10905.6	10423.1	10538.5
72.5°	8209.8	8026.2	8669.6	10063.0	12118.9	13921.4	12202.8	10141.6	9070.0	8090.9	8333.9
75°	4466.8	4258.8	5146.9	6909.1	9664.4	12066.5	9886.4	7106.7	5730.8	4433.6	4722.0
77.5°	1260.5	1181.8	1898.6	3342.7	5813.0	8472.0	6036.7	3416.1	2251.8	1335.7	1484.3
80°	386.4	374.1	507.0	1007.0	2468.5	4057.7	2372.4	1019.2	645.1	407.3	430.1
82.5°	229.0	209.8	251.7	367.1	629.4	1274.5	611.9	382.9	307.7	206.3	223.8
85°	131.1	122.4	148.6	178.3	211.5	271.0	176.6	181.8	164.3	110.1	115.4
87.5°	54.2	49.0	57.7	55.9	49.0	62.9	47.2	55.9	66.4	43.7	40.2
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)