

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: P884272

Luminaire Tested: **NVN-SB5A-735-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884272  
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-SB5A-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

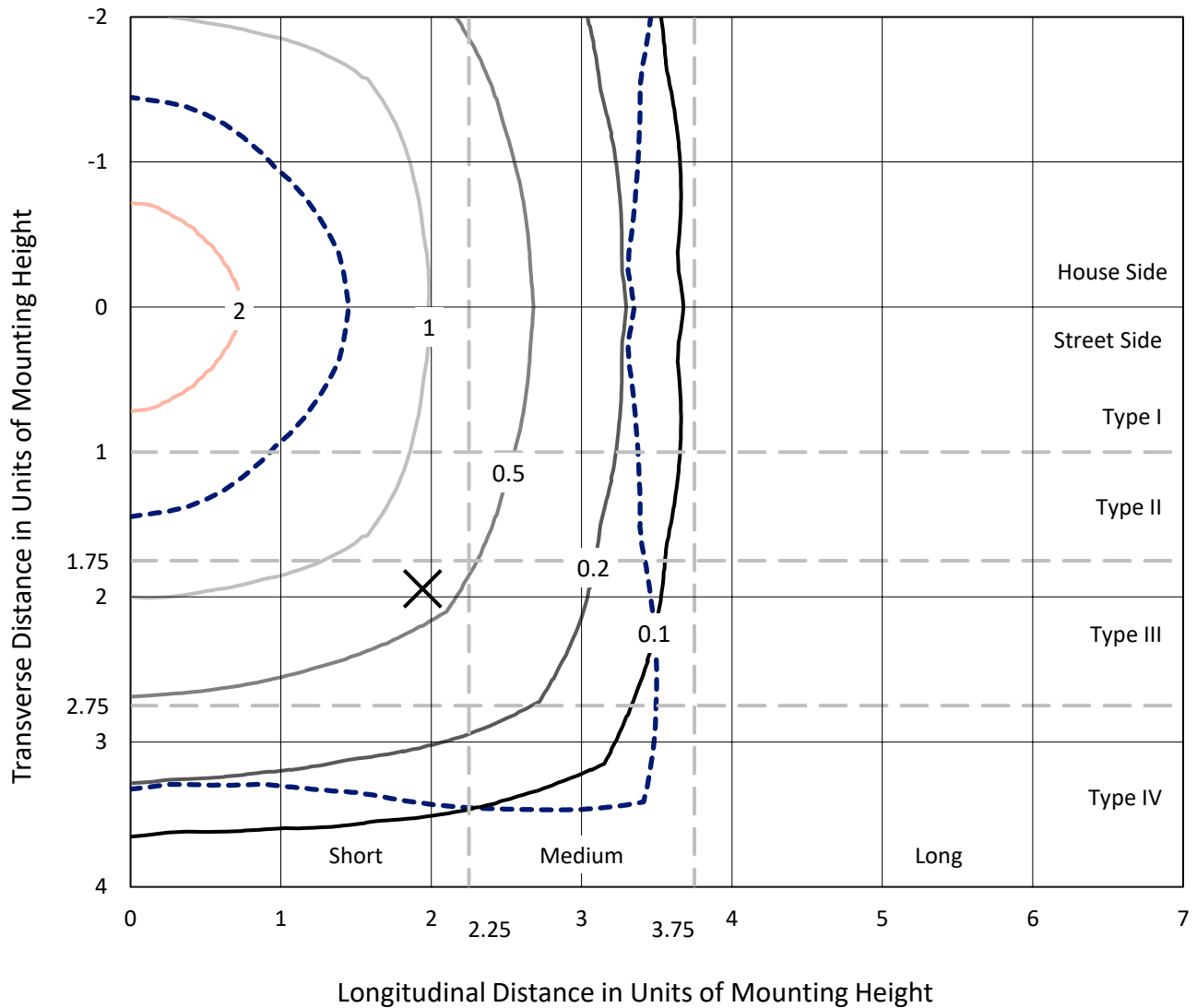
Lumens per Lamp: N/A  
Luminaire Lumens: 23024 lumens  
Efficiency: N/A  
Efficacy: 162.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): 120.0  
Input Current (Ain): 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

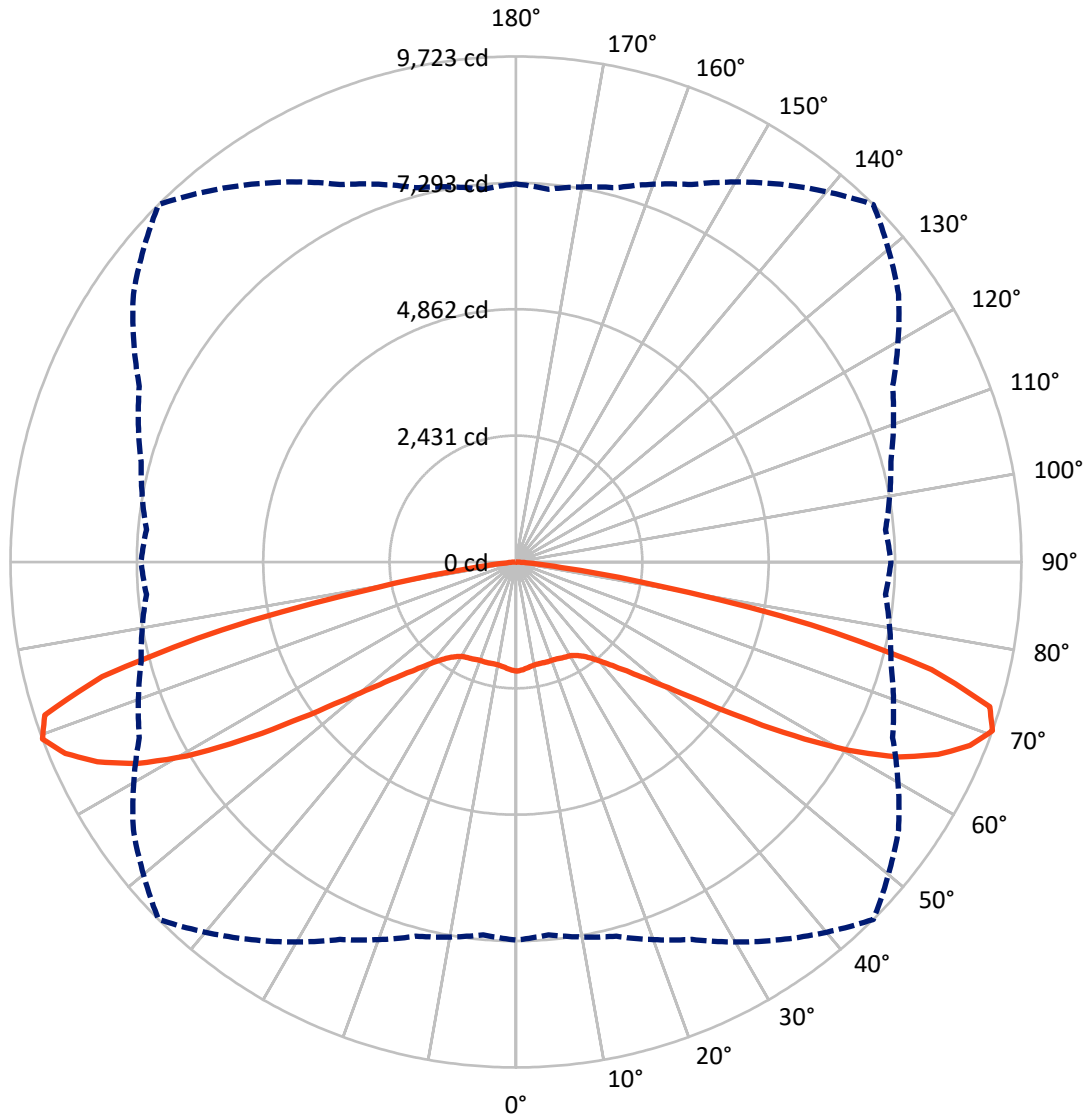
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	11512.0	0.0	11512.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11512.0	0.0	11512.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23024.0	0.0	23024.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.4	0.8
10°-20°	573.7	2.5
20°-30°	954.7	4.1
30°-40°	1443.7	6.3
40°-50°	2399.1	10.4
50°-60°	4527.1	19.7
60°-70°	7644.2	33.2
70°-80°	5023.0	21.8
80°-90°	263.2	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°	23024.0	100.0
0°-180°	23024.0	100.0

**Coefficient of Utilization**



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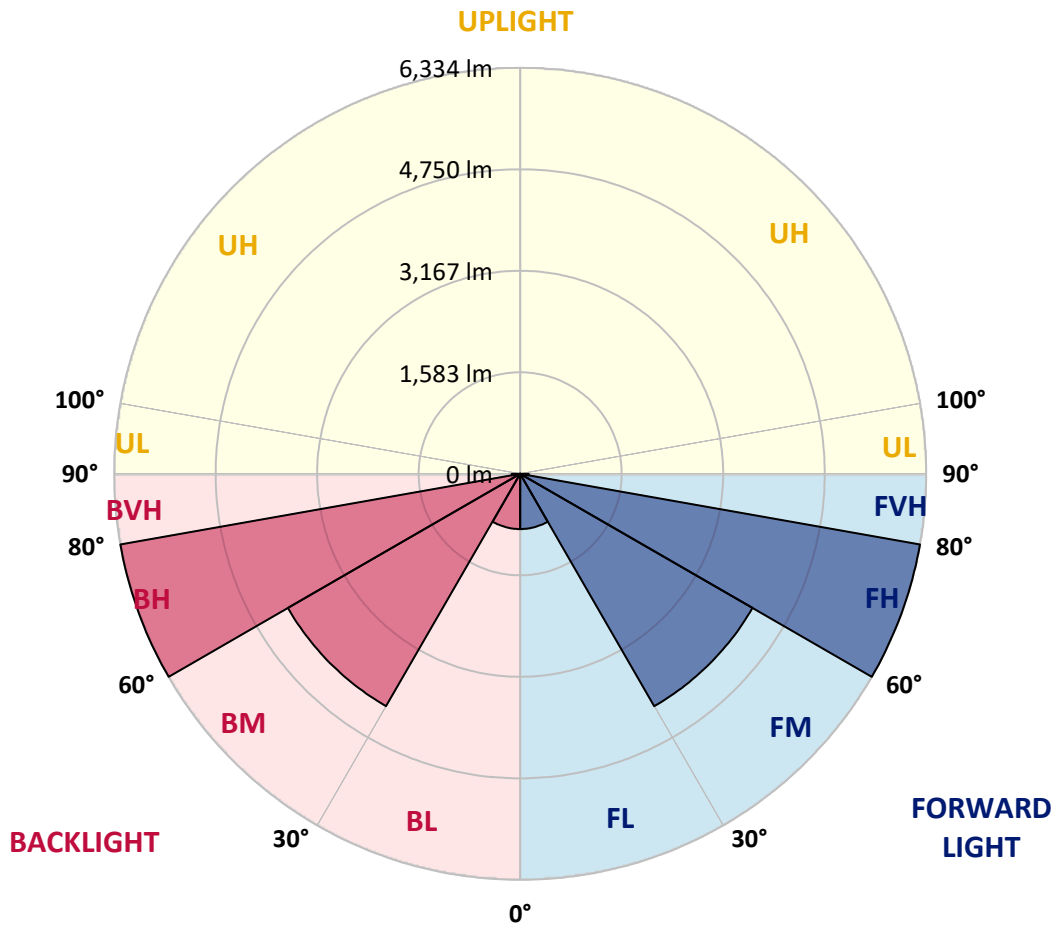
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.8	3.7			
FM (30°-60°)	4185.0	18.2			
FH (60°-80°)	6333.6	27.5			G3/7500
FVH (80°-90°)	131.6	0.6			G2/225
BL (0°-30°)	861.8	3.7	B2/1000		
BM (30°-60°)	4185.0	18.2	B3/5000		
BH (60°-80°)	6333.6	27.5	B5		G3/7500
BVH (80°-90°)	131.6	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-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3	2100.3
2.5°	2087.1	2093.1	2090.7	2085.9	2085.9	2082.3	2085.9	2088.3	2091.9	2094.3	2093.1
5°	2059.6	2064.4	2063.2	2059.6	2060.8	2057.2	2059.6	2063.2	2065.5	2066.7	2066.7
7.5°	2035.6	2040.4	2038.0	2032.0	2032.0	2028.4	2029.6	2033.2	2036.8	2038.0	2038.0
10°	2029.6	2034.4	2027.3	2017.7	2014.1	2009.3	2010.5	2014.1	2021.3	2024.9	2024.9
12.5°	2032.0	2035.6	2028.4	2014.1	2010.5	2005.7	2005.7	2009.3	2018.9	2023.7	2024.9
15°	2039.2	2042.8	2032.0	2016.5	2012.9	2009.3	2008.1	2012.9	2023.7	2032.0	2033.2
17.5°	2052.4	2056.0	2039.2	2017.7	2012.9	2014.1	2012.9	2016.5	2033.2	2048.8	2048.8
20°	2064.4	2066.7	2044.0	2017.7	2012.9	2014.1	2012.9	2020.1	2041.6	2063.2	2064.4
22.5°	2067.9	2070.3	2048.8	2026.1	2022.5	2023.7	2022.5	2029.6	2050.0	2071.5	2071.5
25°	2069.1	2072.7	2056.0	2038.0	2044.0	2046.4	2044.0	2045.2	2060.8	2079.9	2078.7
27.5°	2087.1	2091.9	2076.3	2060.8	2064.4	2063.2	2066.7	2070.3	2082.3	2101.4	2096.7
30°	2124.2	2127.8	2114.6	2099.1	2096.7	2088.3	2099.1	2111.0	2124.2	2140.9	2137.4
32.5°	2185.2	2192.4	2175.6	2158.9	2148.1	2143.3	2151.7	2172.1	2190.0	2208.0	2200.8
35°	2286.9	2291.7	2276.2	2245.1	2225.9	2225.9	2233.1	2259.4	2288.1	2310.9	2302.5
37.5°	2430.5	2436.5	2409.0	2371.9	2343.2	2343.2	2352.8	2380.3	2423.4	2455.7	2443.7
40°	2605.3	2613.6	2578.9	2540.6	2513.1	2508.3	2520.3	2551.4	2592.1	2632.8	2619.6
42.5°	2815.9	2825.5	2780.0	2746.5	2724.9	2724.9	2730.9	2759.6	2796.7	2847.0	2843.4
45°	3085.2	3101.9	3039.7	3006.2	2985.8	2990.6	2994.2	3019.3	3052.8	3110.3	3107.9
47.5°	3405.9	3422.6	3356.8	3322.1	3318.5	3341.3	3326.9	3344.8	3362.8	3428.6	3409.5
50°	3769.7	3798.4	3752.9	3750.5	3757.7	3799.6	3766.1	3775.7	3755.3	3797.2	3772.1
52.5°	4214.9	4256.8	4248.4	4262.7	4342.9	4429.1	4352.5	4319.0	4242.4	4255.6	4211.3
55°	4754.6	4818.0	4830.0	4916.1	5098.0	5274.0	5111.2	4976.0	4813.2	4783.3	4736.6
57.5°	5368.5	5418.8	5476.2	5652.1	5992.0	6304.3	5992.0	5692.8	5436.7	5375.7	5332.6
60°	6029.1	6091.3	6146.4	6406.1	6911.1	7350.3	6901.5	6426.4	6087.7	6005.2	5933.4
62.5°	6738.8	6818.9	6857.2	7145.6	7734.4	8258.6	7742.8	7167.2	6791.4	6702.9	6631.1
65°	7419.7	7485.5	7528.6	7836.2	8398.6	8924.0	8436.9	7869.7	7483.1	7367.0	7309.6
67.5°	7736.8	7772.7	7878.0	8226.3	8819.9	9419.4	8920.4	8263.4	7831.4	7627.9	7630.3
70°	7272.5	7199.5	7453.2	8010.9	8870.1	9723.4	8985.0	7994.1	7465.2	7134.9	7213.9
72.5°	5619.8	5494.2	5934.6	6888.3	8295.7	9529.5	8353.1	6942.2	6208.6	5538.4	5704.8
75°	3057.6	2915.2	3523.2	4729.5	6615.5	8259.8	6767.5	4864.7	3922.9	3034.9	3232.4
77.5°	862.8	809.0	1299.6	2288.1	3979.1	5799.3	4132.3	2338.4	1541.4	914.3	1016.0
80°	264.5	256.1	347.1	689.3	1689.8	2777.6	1624.0	697.7	441.6	278.8	294.4
82.5°	156.8	143.6	172.3	251.3	430.8	872.4	418.9	262.1	210.6	141.2	153.2
85°	89.8	83.8	101.7	122.1	144.8	185.5	120.9	124.5	112.5	75.4	79.0
87.5°	37.1	33.5	39.5	38.3	33.5	43.1	32.3	38.3	45.5	29.9	27.5
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)