

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: P961514

Luminaire Tested: **NVN-SB2A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961514
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-SB2A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8087.3 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

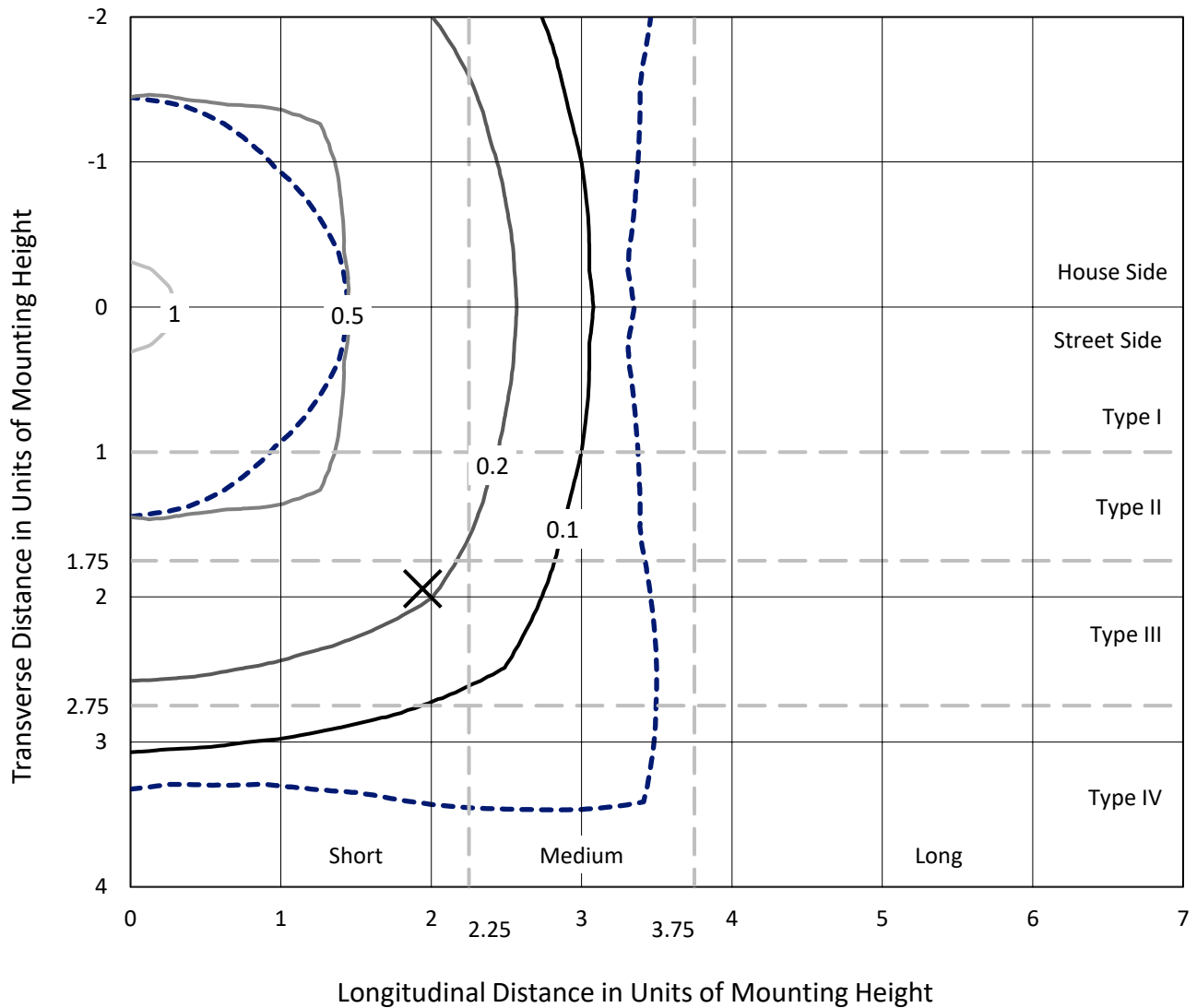
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

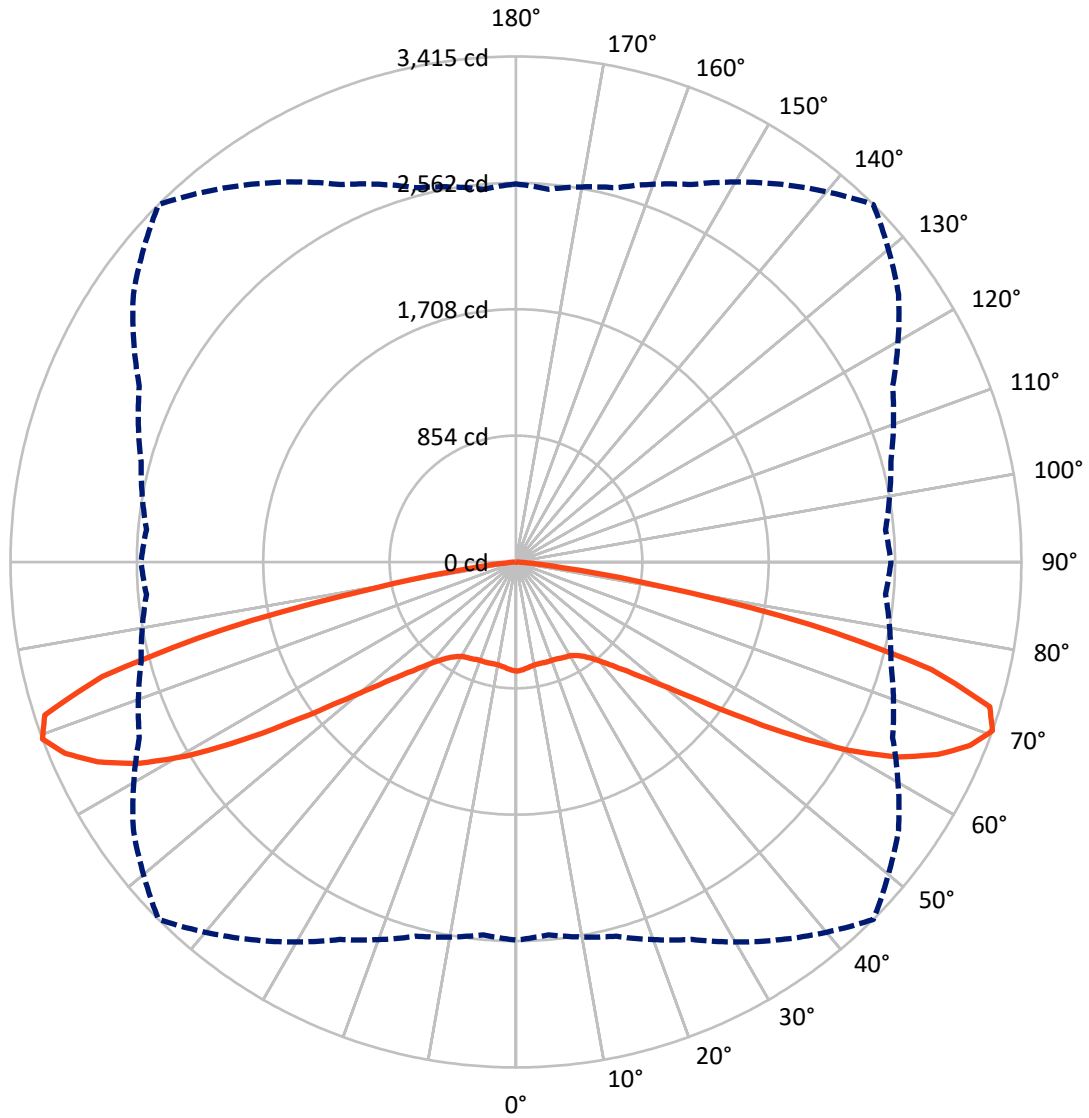
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	4043.6	0.0	4043.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4043.6	0.0	4043.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8087.3	0.0	8087.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	0.8
10°-20°	201.5	2.5
20°-30°	335.3	4.1
30°-40°	507.1	6.3
40°-50°	842.7	10.4
50°-60°	1590.2	19.7
60°-70°	2685.0	33.2
70°-80°	1764.3	21.8
80°-90°	92.4	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°	8087.3	100.0
0°-180°	8087.3	100.0

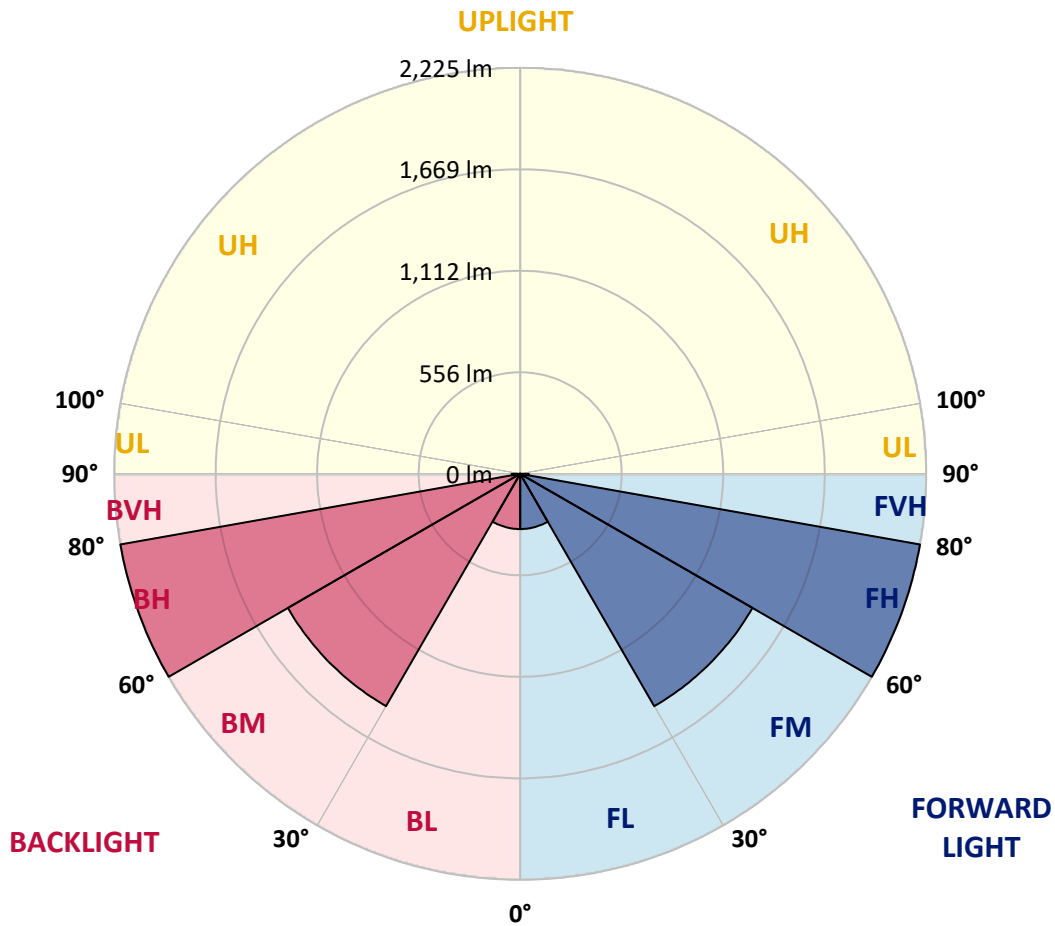


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.7	3.7			
FM (30°-60°)	1470.0	18.2			
FH (60°-80°)	2224.7	27.5			G2/5000
FVH (80°-90°)	46.2	0.6			G1/100
BL (0°-30°)	302.7	3.7	B1/500		
BM (30°-60°)	1470.0	18.2	B2/2500		
BH (60°-80°)	2224.7	27.5	B3/2500		G2/5000
BVH (80°-90°)	46.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
2.5°	733.1	735.2	734.3	732.7	732.7	731.4	732.7	733.5	734.8	735.6	735.2
5°	723.4	725.1	724.7	723.4	723.9	722.6	723.4	724.7	725.5	725.9	725.9
7.5°	715.0	716.7	715.9	713.8	713.8	712.5	712.9	714.2	715.4	715.9	715.9
10°	712.9	714.6	712.1	708.7	707.5	705.8	706.2	707.5	710.0	711.2	711.2
12.5°	713.8	715.0	712.5	707.5	706.2	704.5	704.5	705.8	709.1	710.8	711.2
15°	716.3	717.5	713.8	708.3	707.0	705.8	705.3	707.0	710.8	713.8	714.2
17.5°	720.9	722.2	716.3	708.7	707.0	707.5	707.0	708.3	714.2	719.7	719.7
20°	725.1	725.9	718.0	708.7	707.0	707.5	707.0	709.6	717.1	724.7	725.1
22.5°	726.4	727.2	719.7	711.7	710.4	710.8	710.4	712.9	720.1	727.6	727.6
25°	726.8	728.1	722.2	715.9	718.0	718.8	718.0	718.4	723.9	730.6	730.1
27.5°	733.1	734.8	729.3	723.9	725.1	724.7	725.9	727.2	731.4	738.1	736.5
30°	746.1	747.4	742.7	737.3	736.5	733.5	737.3	741.5	746.1	752.0	750.7
32.5°	767.5	770.1	764.2	758.3	754.5	752.9	755.8	762.9	769.3	775.5	773.1
35°	803.3	804.9	799.5	788.5	781.9	781.9	784.3	793.7	803.7	811.7	808.7
37.5°	853.7	855.9	846.1	833.1	823.1	823.1	826.5	836.1	851.3	862.5	858.3
40°	915.1	918.1	905.9	892.4	882.7	881.1	885.3	896.2	910.5	924.8	920.1
42.5°	989.1	992.4	976.5	964.7	957.1	957.1	959.2	969.3	982.4	1000.0	998.8
45°	1083.6	1089.6	1067.7	1056.0	1048.8	1050.4	1051.8	1060.6	1072.4	1092.5	1091.6
47.5°	1196.3	1202.2	1179.1	1166.9	1165.6	1173.6	1168.6	1174.9	1181.2	1204.3	1197.6
50°	1324.1	1334.2	1318.3	1317.4	1319.9	1334.7	1322.9	1326.2	1319.1	1333.7	1324.9
52.5°	1480.5	1495.2	1492.3	1497.3	1525.5	1555.7	1528.8	1517.1	1490.1	1494.8	1479.2
55°	1670.0	1692.4	1696.6	1726.8	1790.7	1852.5	1795.3	1747.8	1690.6	1680.2	1663.8
57.5°	1885.7	1903.3	1923.5	1985.3	2104.7	2214.4	2104.7	1999.6	1909.7	1888.3	1873.1
60°	2117.8	2139.6	2159.0	2250.2	2427.5	2581.8	2424.2	2257.3	2138.4	2109.3	2084.1
62.5°	2367.0	2395.2	2408.6	2509.9	2716.8	2900.9	2719.7	2517.5	2385.5	2354.4	2329.2
65°	2606.2	2629.3	2644.4	2752.4	2950.1	3134.6	2963.5	2764.2	2628.5	2587.7	2567.5
67.5°	2717.6	2730.2	2767.2	2889.5	3098.0	3308.6	3133.3	2902.5	2750.8	2679.4	2680.2
70°	2554.5	2528.9	2618.0	2813.8	3115.7	3415.4	3156.0	2808.0	2622.2	2506.1	2533.9
72.5°	1973.9	1929.9	2084.5	2419.5	2913.9	3347.2	2934.1	2438.5	2180.8	1945.3	2003.9
75°	1074.0	1024.0	1237.5	1661.2	2323.7	2901.3	2377.1	1708.8	1377.9	1066.0	1135.4
77.5°	303.1	284.1	456.5	803.7	1397.7	2037.0	1451.5	821.3	541.4	321.1	356.9
80°	92.9	90.0	121.9	242.1	593.6	975.6	570.4	245.1	155.1	98.0	103.4
82.5°	55.0	50.4	60.6	88.3	151.3	306.5	147.1	92.0	74.0	49.6	53.8
85°	31.6	29.4	35.8	42.8	50.8	65.2	42.4	43.8	39.5	26.4	27.8
87.5°	13.0	11.8	13.8	13.4	11.8	15.2	11.4	13.4	16.0	10.6	9.6
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)