

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: P963621

Luminaire Tested: **NVN-SB3A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12570.6 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

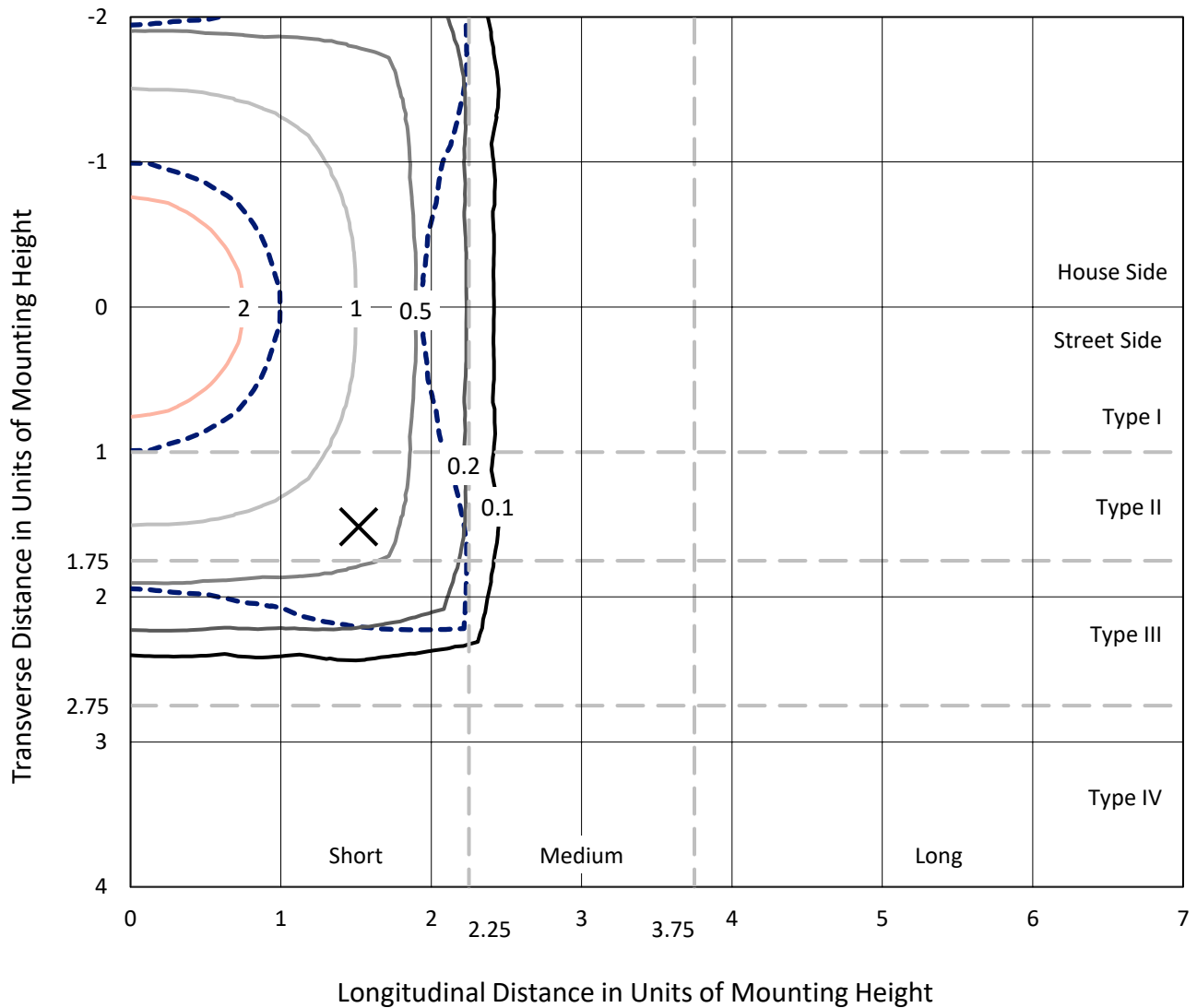
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

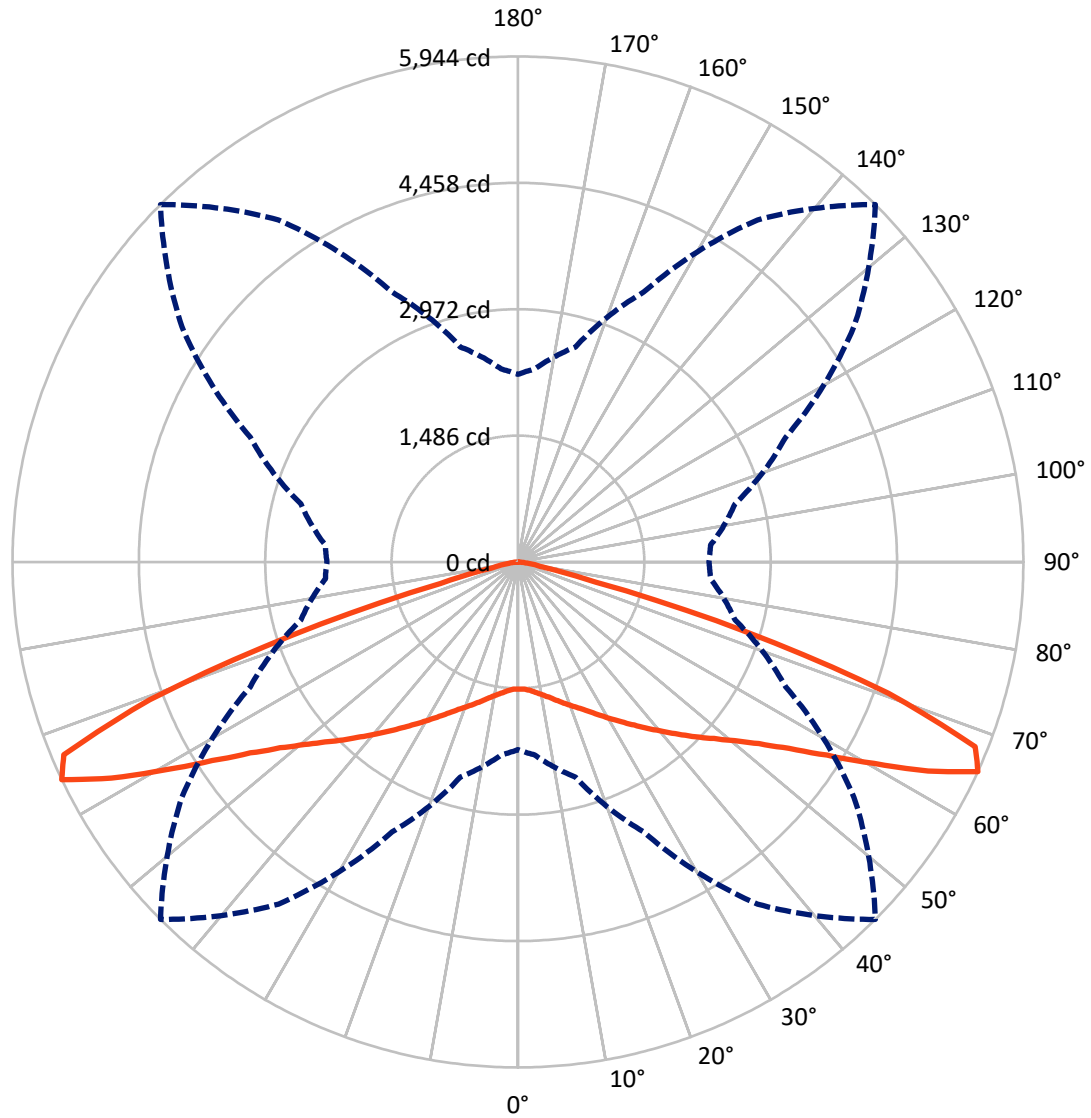
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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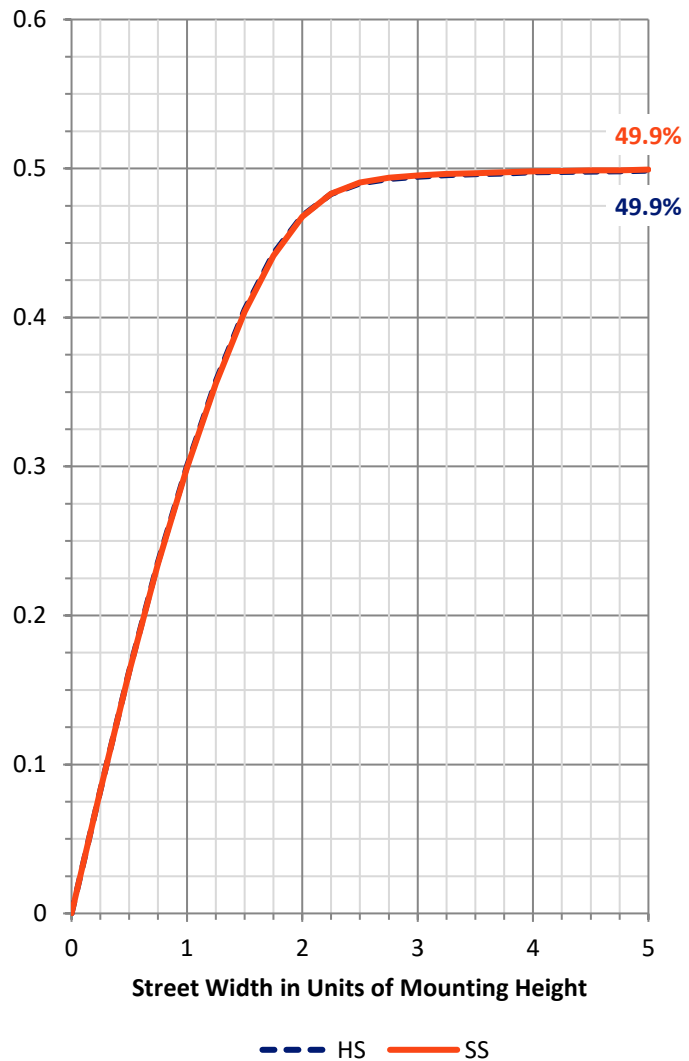
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6285.3	0.0	6285.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6285.3	0.0	6285.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12570.6	0.0	12570.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.2
10°-20°	481.8	3.8
20°-30°	909.6	7.2
30°-40°	1489.5	11.8
40°-50°	2309.5	18.4
50°-60°	3411.6	27.1
60°-70°	3247.5	25.8
70°-80°	524.0	4.2
80°-90°	49.4	0.4
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°	12570.6	100.0
0°-180°	12570.6	100.0

Coefficient of Utilization



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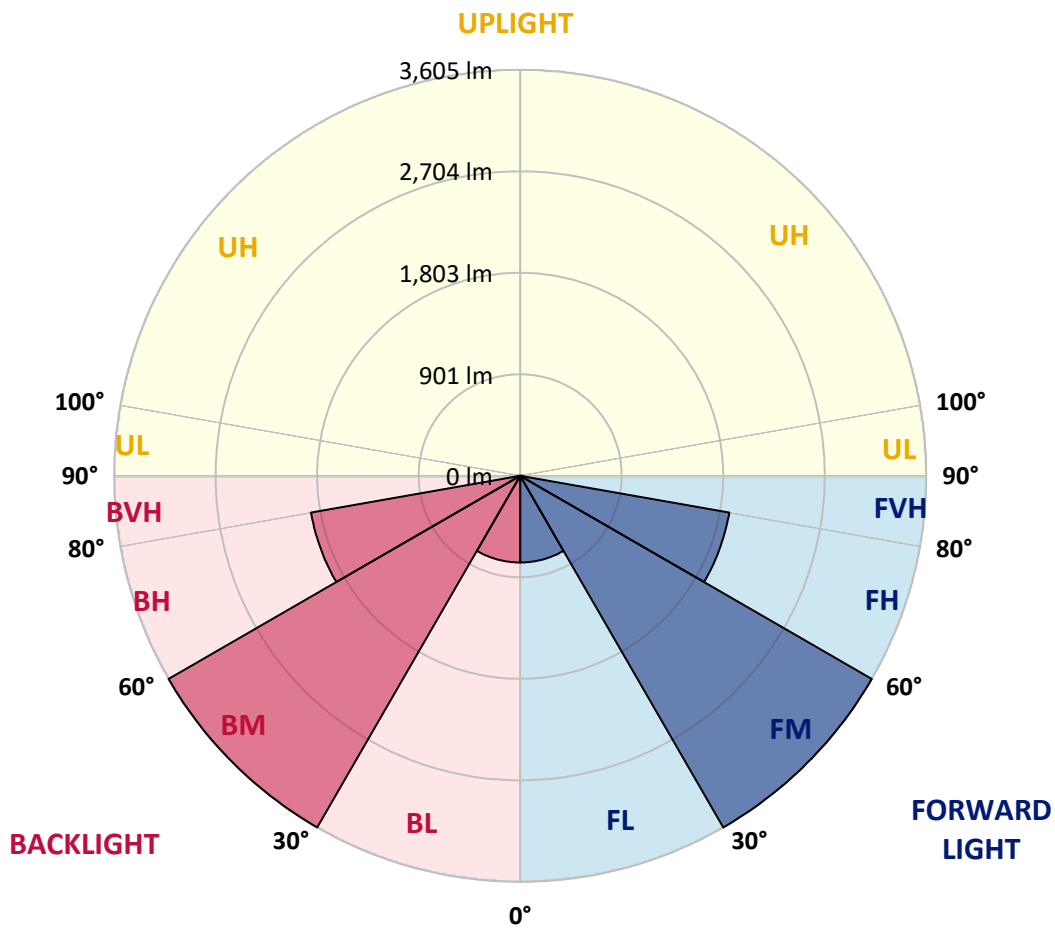
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.5	6.1			
FM (30°-60°)	3605.3	28.7			
FH (60°-80°)	1885.8	15.0			G2/5000
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	769.5	6.1	B2/1000		
BM (30°-60°)	3605.3	28.7	B3/5000		
BH (60°-80°)	1885.8	15.0	B3/2500		G2/5000
BVH (80°-90°)	24.7	0.2			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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1506.1	1501.1	1504.9	1501.7	1499.2	1496.7	1497.9	1502.3	1504.2	1504.9	1504.9
5°	1526.3	1521.9	1523.8	1523.8	1519.4	1518.1	1518.7	1521.9	1525.7	1525.7	1525.7
7.5°	1559.1	1554.7	1559.1	1556.6	1552.8	1551.5	1550.9	1553.4	1559.1	1559.1	1557.2
10°	1598.8	1593.8	1596.3	1595.0	1590.6	1588.7	1588.1	1591.9	1596.9	1596.3	1595.0
12.5°	1642.4	1636.7	1639.8	1636.0	1634.8	1632.9	1632.9	1632.2	1635.4	1632.9	1634.2
15°	1690.9	1687.2	1688.4	1685.8	1687.8	1686.5	1681.4	1679.0	1680.2	1676.4	1677.0
17.5°	1748.3	1739.5	1743.9	1742.6	1742.6	1745.2	1737.0	1733.8	1736.4	1732.6	1735.7
20°	1814.6	1805.7	1807.6	1805.0	1802.0	1804.4	1794.4	1796.8	1798.8	1796.2	1802.0
22.5°	1887.0	1875.7	1875.0	1876.4	1869.4	1870.0	1863.1	1869.4	1873.2	1866.2	1873.2
25°	1961.4	1949.5	1957.7	1954.6	1945.8	1947.6	1942.6	1948.8	1952.0	1943.2	1953.2
27.5°	2040.4	2032.2	2039.6	2041.6	2030.8	2038.4	2030.8	2036.6	2039.6	2026.4	2036.6
30°	2132.4	2124.2	2131.2	2136.2	2123.6	2135.6	2129.2	2133.0	2133.6	2117.9	2127.4
32.5°	2232.7	2220.0	2237.8	2240.2	2226.4	2240.9	2232.7	2237.8	2240.9	2219.4	2234.0
35°	2355.0	2339.3	2359.4	2356.3	2344.3	2356.3	2348.8	2356.3	2363.9	2338.0	2353.8
37.5°	2486.9	2470.5	2491.9	2486.2	2474.9	2483.1	2478.7	2483.7	2495.7	2467.9	2485.0
40°	2631.9	2611.7	2640.7	2630.7	2619.9	2618.7	2621.2	2624.3	2640.1	2609.2	2619.3
42.5°	2787.1	2765.7	2809.1	2793.4	2778.3	2768.1	2776.3	2782.7	2797.8	2763.1	2781.4
45°	2964.3	2939.7	2996.5	2977.5	2953.5	2932.7	2946.1	2955.5	2977.5	2935.9	2957.3
47.5°	3159.9	3132.1	3192.6	3186.9	3147.9	3102.5	3132.7	3159.9	3176.3	3125.7	3142.8
50°	3350.9	3329.5	3408.9	3415.9	3367.9	3304.3	3346.5	3387.5	3391.9	3325.7	3333.9
52.5°	3530.0	3508.6	3624.0	3667.6	3624.6	3549.0	3593.8	3635.4	3602.0	3516.2	3518.7
55°	3673.2	3655.6	3802.5	3914.8	3929.2	3866.8	3893.4	3892.0	3782.4	3650.5	3654.9
57.5°	3707.9	3705.4	3890.8	4128.6	4280.0	4287.5	4235.2	4101.4	3865.0	3687.7	3676.4
60°	3550.2	3566.0	3820.8	4240.2	4643.9	4811.7	4585.2	4203.6	3771.0	3525.0	3496.0
62.5°	3078.5	3120.1	3427.2	4104.0	4937.7	5414.6	4865.9	4048.4	3385.0	3063.9	3045.1
65°	2206.2	2278.8	2618.1	3502.3	4911.3	5944.4	4825.5	3473.9	2643.3	2273.0	2246.0
67.5°	1000.9	1074.7	1362.9	2397.9	4269.2	5800.6	4259.2	2423.2	1431.1	1078.5	1062.7
70°	362.6	375.3	468.0	959.9	2728.4	4621.8	2845.1	966.9	497.6	399.9	394.8
72.5°	219.5	221.4	241.0	343.7	947.9	2806.0	988.3	355.1	246.0	218.2	222.0
75°	139.4	138.2	171.6	210.0	336.2	946.7	352.6	210.0	171.0	155.8	157.0
77.5°	100.2	103.4	123.0	157.0	211.9	321.0	208.2	150.1	123.0	101.0	102.8
80°	75.0	77.0	89.6	122.4	148.8	200.0	132.4	111.0	92.8	63.0	65.0
82.5°	54.2	54.2	58.6	89.0	90.8	107.8	71.9	78.2	61.2	44.8	44.8
85°	32.2	31.6	36.6	53.0	47.3	39.8	32.8	48.0	38.4	27.8	27.2
87.5°	11.4	12.0	11.4	15.2	12.6	10.8	10.0	13.2	10.8	9.4	8.8
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)