

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: P959933

Luminaire Tested: **NVN-SB1B-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959933
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-SB1B-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5078.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

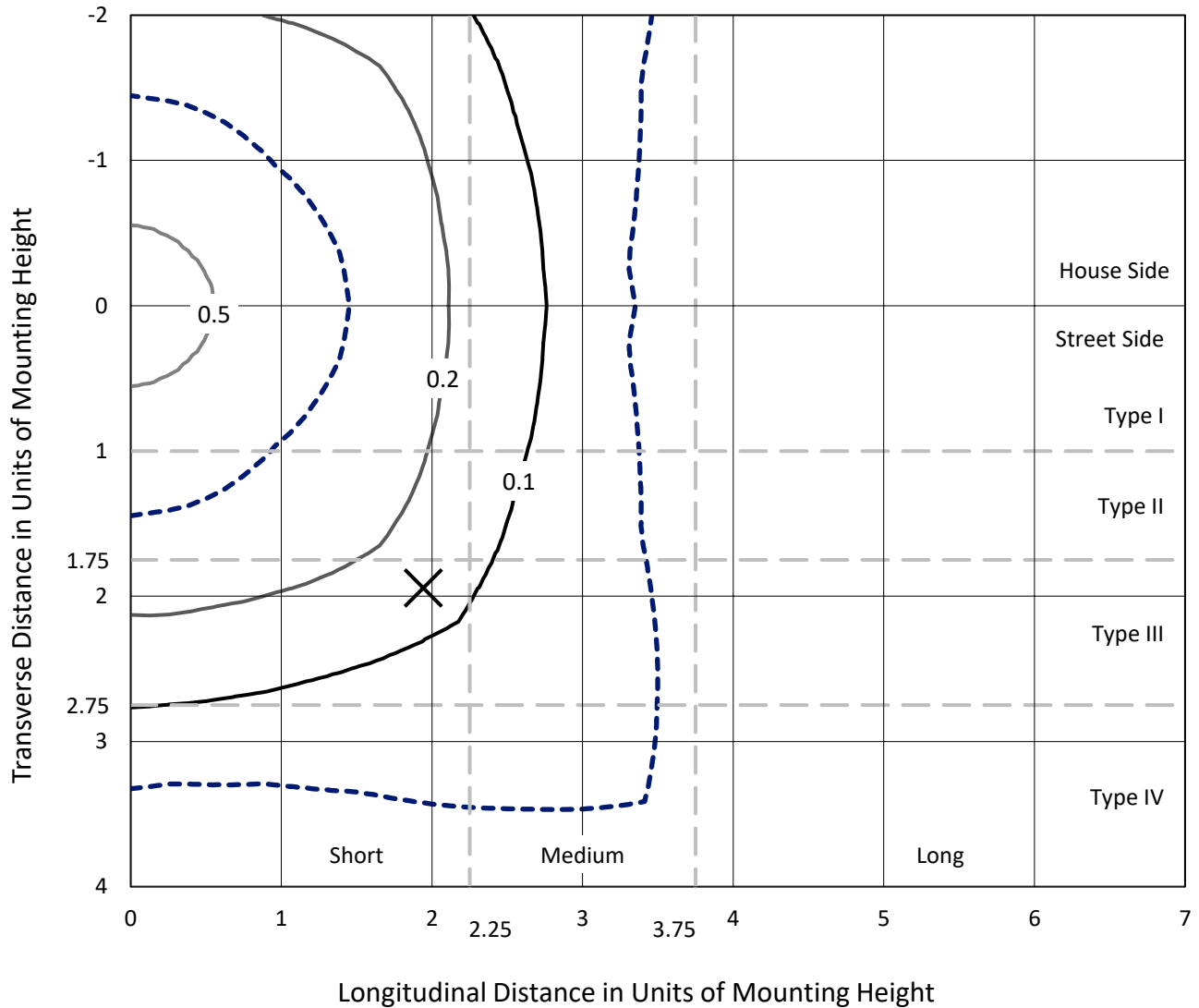
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

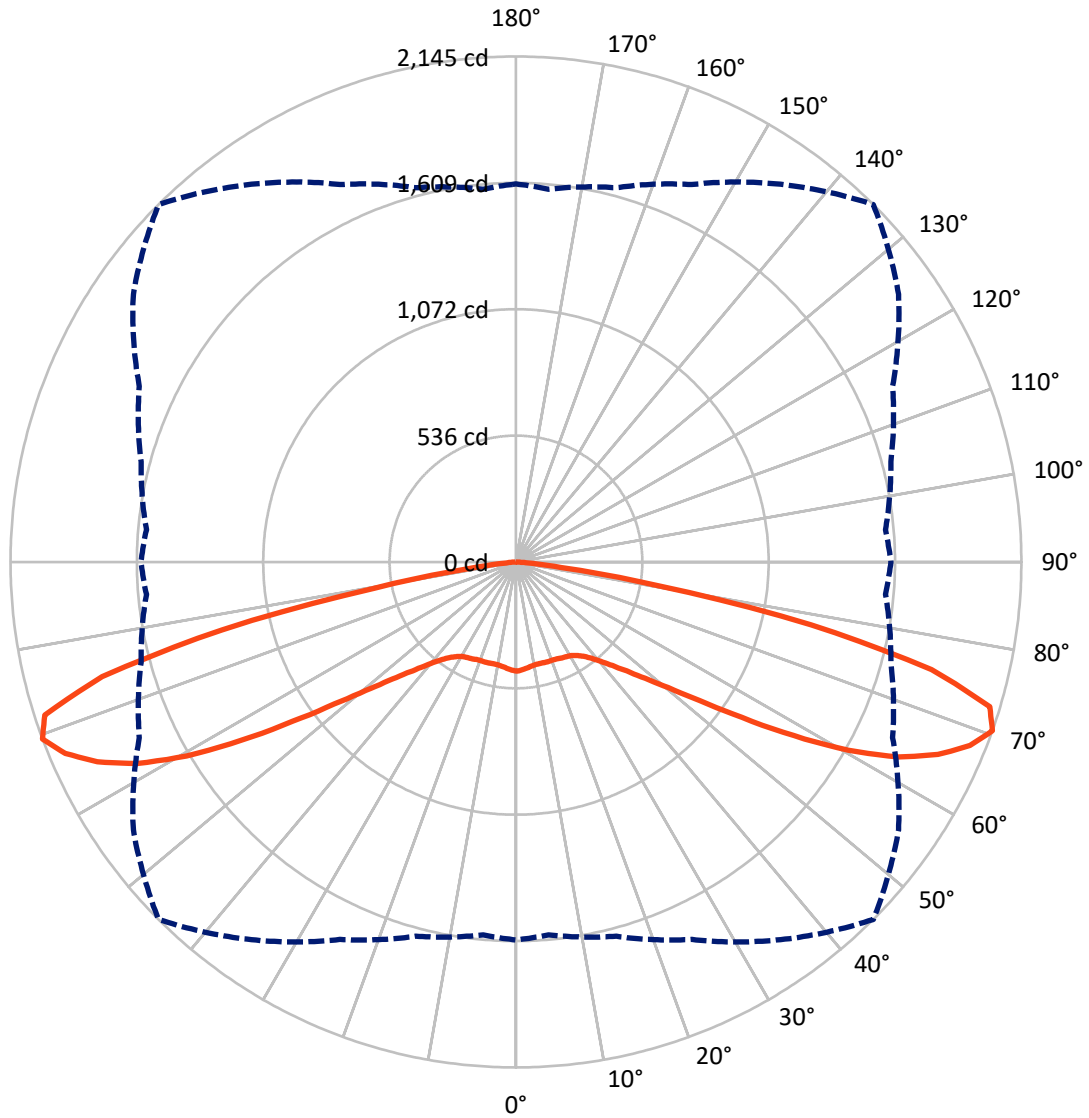
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2539.4	0.0	2539.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2539.4	0.0	2539.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5078.9	0.0	5078.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	0.8
10°-20°	126.5	2.5
20°-30°	210.6	4.1
30°-40°	318.5	6.3
40°-50°	529.2	10.4
50°-60°	998.6	19.7
60°-70°	1686.2	33.2
70°-80°	1108.0	21.8
80°-90°	58.0	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°	5078.9	100.0
0°-180°	5078.9	100.0

Coefficient of Utilization



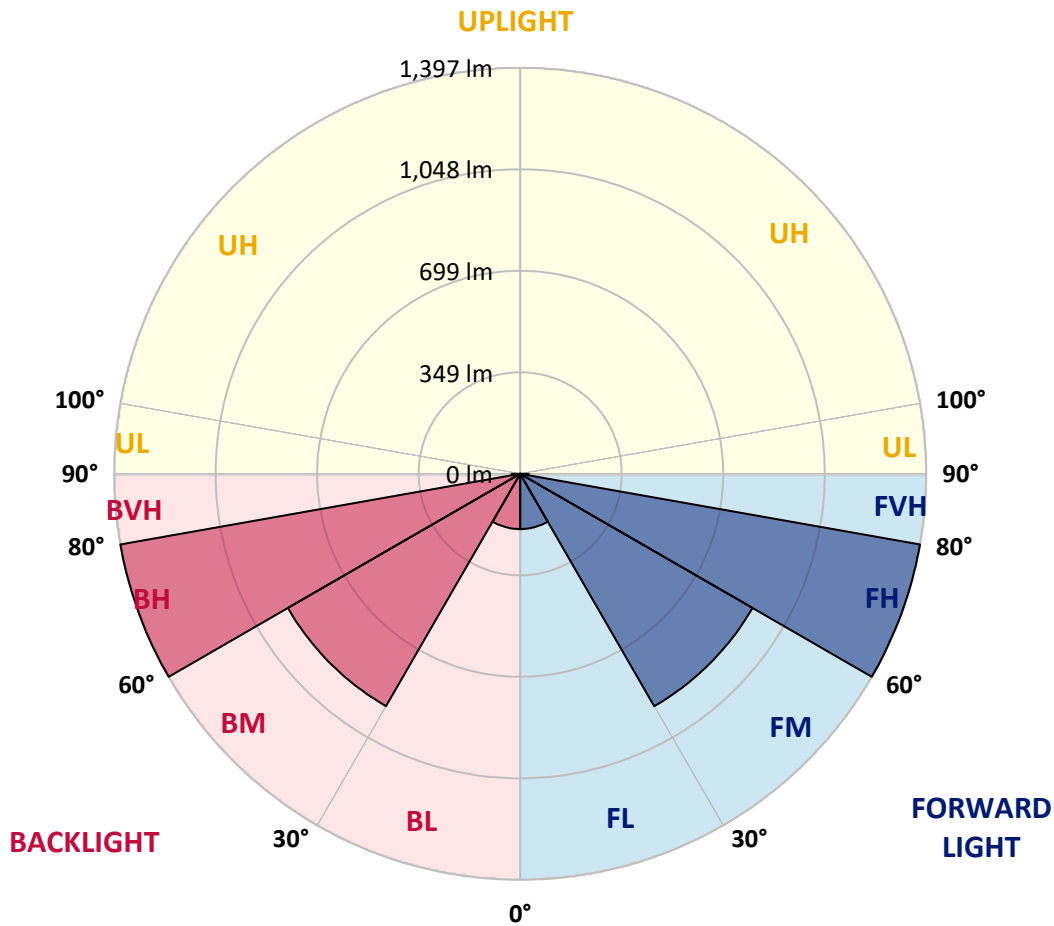
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.1	3.7			
FM (30°-60°)	923.2	18.2			
FH (60°-80°)	1397.1	27.5			G1/1800
FVH (80°-90°)	29.0	0.6			G1/100
BL (0°-30°)	190.1	3.7	B1/500		
BM (30°-60°)	923.2	18.2	B1/1000		
BH (60°-80°)	1397.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	29.0	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3
2.5°	460.4	461.8	461.1	460.1	460.1	459.3	460.1	460.6	461.5	462.0	461.8
5°	454.3	455.4	455.1	454.3	454.6	453.8	454.3	455.1	455.6	455.9	455.9
7.5°	449.1	450.1	449.6	448.2	448.2	447.4	447.7	448.5	449.3	449.6	449.6
10°	447.7	448.7	447.2	445.1	444.3	443.2	443.5	444.3	445.9	446.7	446.7
12.5°	448.2	449.1	447.4	444.3	443.5	442.4	442.4	443.2	445.4	446.4	446.7
15°	449.9	450.6	448.2	444.8	444.0	443.2	443.0	444.0	446.4	448.2	448.5
17.5°	452.7	453.6	449.9	445.1	444.0	444.3	444.0	444.8	448.5	451.9	451.9
20°	455.4	455.9	450.9	445.1	444.0	444.3	444.0	445.6	450.4	455.1	455.4
22.5°	456.1	456.7	451.9	446.9	446.2	446.4	446.2	447.7	452.2	456.9	456.9
25°	456.4	457.3	453.6	449.6	450.9	451.4	450.9	451.1	454.6	458.8	458.6
27.5°	460.4	461.5	458.0	454.6	455.4	455.1	455.9	456.7	459.3	463.6	462.5
30°	468.5	469.3	466.5	463.0	462.5	460.6	463.0	465.7	468.5	472.3	471.5
32.5°	482.1	483.6	479.9	476.2	473.9	472.8	474.7	479.1	483.1	487.1	485.4
35°	504.5	505.5	502.1	495.3	491.0	491.0	492.6	498.4	504.7	509.7	507.9
37.5°	536.2	537.5	531.4	523.3	516.9	516.9	519.0	525.1	534.5	541.7	539.0
40°	574.7	576.6	568.9	560.5	554.3	553.3	556.0	562.8	571.7	580.8	577.9
42.5°	621.2	623.3	613.3	605.9	601.1	601.1	602.4	608.7	616.9	628.0	627.2
45°	680.6	684.3	670.6	663.2	658.7	659.7	660.5	666.0	673.4	686.1	685.6
47.5°	751.3	755.0	740.5	732.9	732.1	737.1	733.9	737.8	741.8	756.3	752.1
50°	831.6	837.9	827.9	827.4	828.9	838.1	830.8	832.9	828.4	837.6	832.1
52.5°	929.8	939.0	937.2	940.3	958.0	977.0	960.1	952.7	935.8	938.7	929.0
55°	1048.8	1062.8	1065.5	1084.4	1124.6	1163.4	1127.5	1097.7	1061.8	1055.1	1044.9
57.5°	1184.3	1195.4	1208.0	1246.8	1321.7	1390.7	1321.7	1255.8	1199.2	1185.8	1176.3
60°	1329.9	1343.7	1355.9	1413.2	1524.5	1621.4	1522.4	1417.6	1342.9	1324.7	1308.8
62.5°	1486.5	1504.2	1512.6	1576.2	1706.1	1821.7	1708.0	1581.1	1498.1	1478.6	1462.8
65°	1636.7	1651.3	1660.7	1728.6	1852.7	1968.5	1861.1	1735.9	1650.7	1625.1	1612.4
67.5°	1706.6	1714.6	1737.8	1814.7	1945.6	2077.9	1967.8	1822.9	1727.5	1682.6	1683.2
70°	1604.2	1588.1	1644.1	1767.1	1956.6	2144.9	1982.0	1763.4	1646.8	1573.9	1591.3
72.5°	1239.6	1212.0	1309.1	1519.5	1829.9	2102.2	1842.6	1531.4	1369.6	1221.7	1258.4
75°	674.4	643.1	777.2	1043.2	1459.3	1822.0	1492.8	1073.1	865.3	669.4	713.0
77.5°	190.3	178.5	286.7	504.7	877.7	1279.3	911.5	515.8	340.0	201.7	224.2
80°	58.3	56.5	76.6	152.0	372.8	612.7	358.2	154.0	97.4	61.5	65.0
82.5°	34.5	31.7	38.0	55.5	95.0	192.5	92.4	57.8	46.4	31.2	33.8
85°	19.8	18.4	22.4	27.0	32.0	40.9	26.6	27.5	24.8	16.6	17.4
87.5°	8.2	7.4	8.7	8.4	7.4	9.5	7.2	8.4	10.0	6.6	6.0
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)