

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: P959963

Luminaire Tested: **NVN-SB1B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959963
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-SB1B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5436.6 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - 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



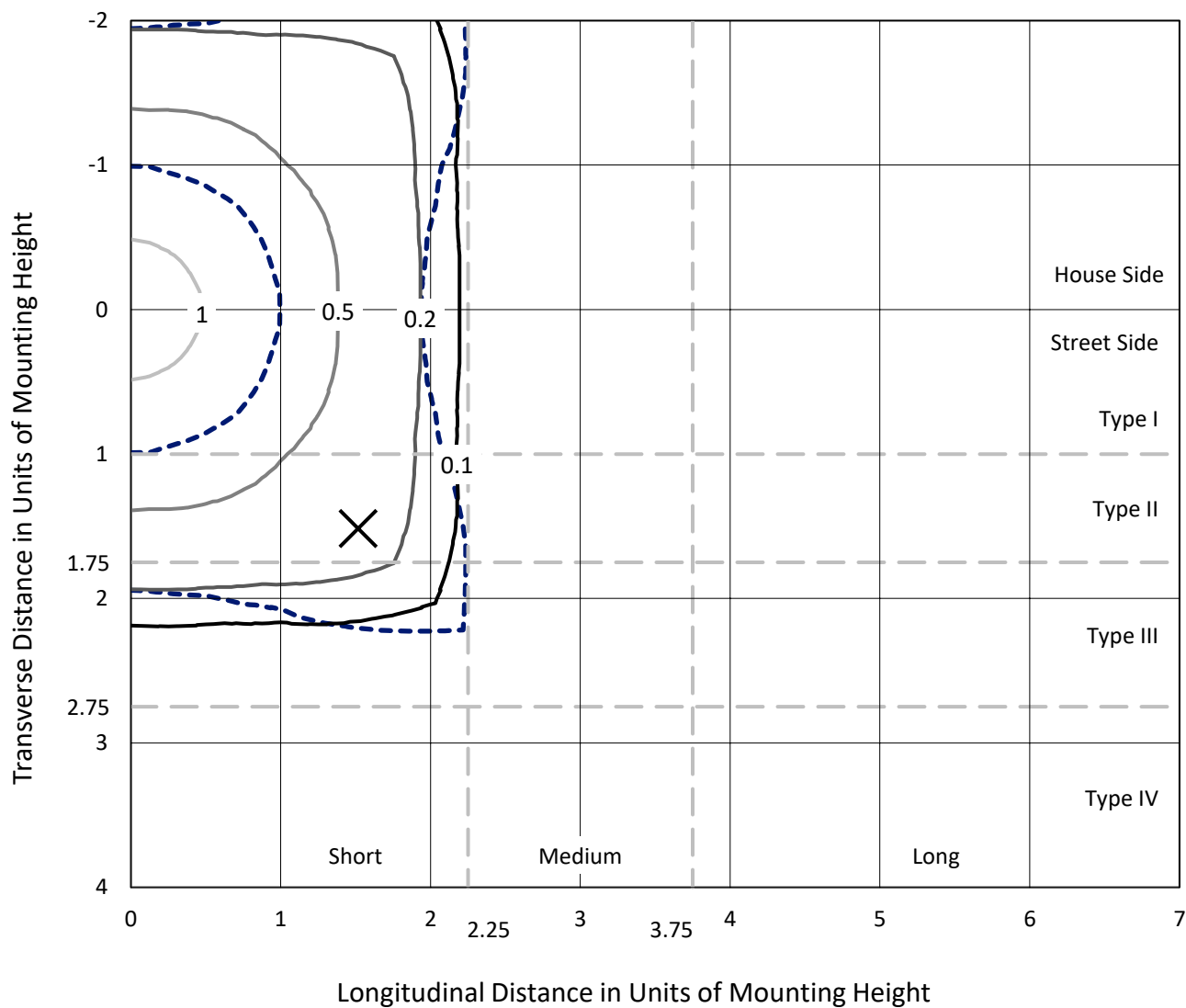
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Iso-Footcandle Lines of Horizontal Illumination

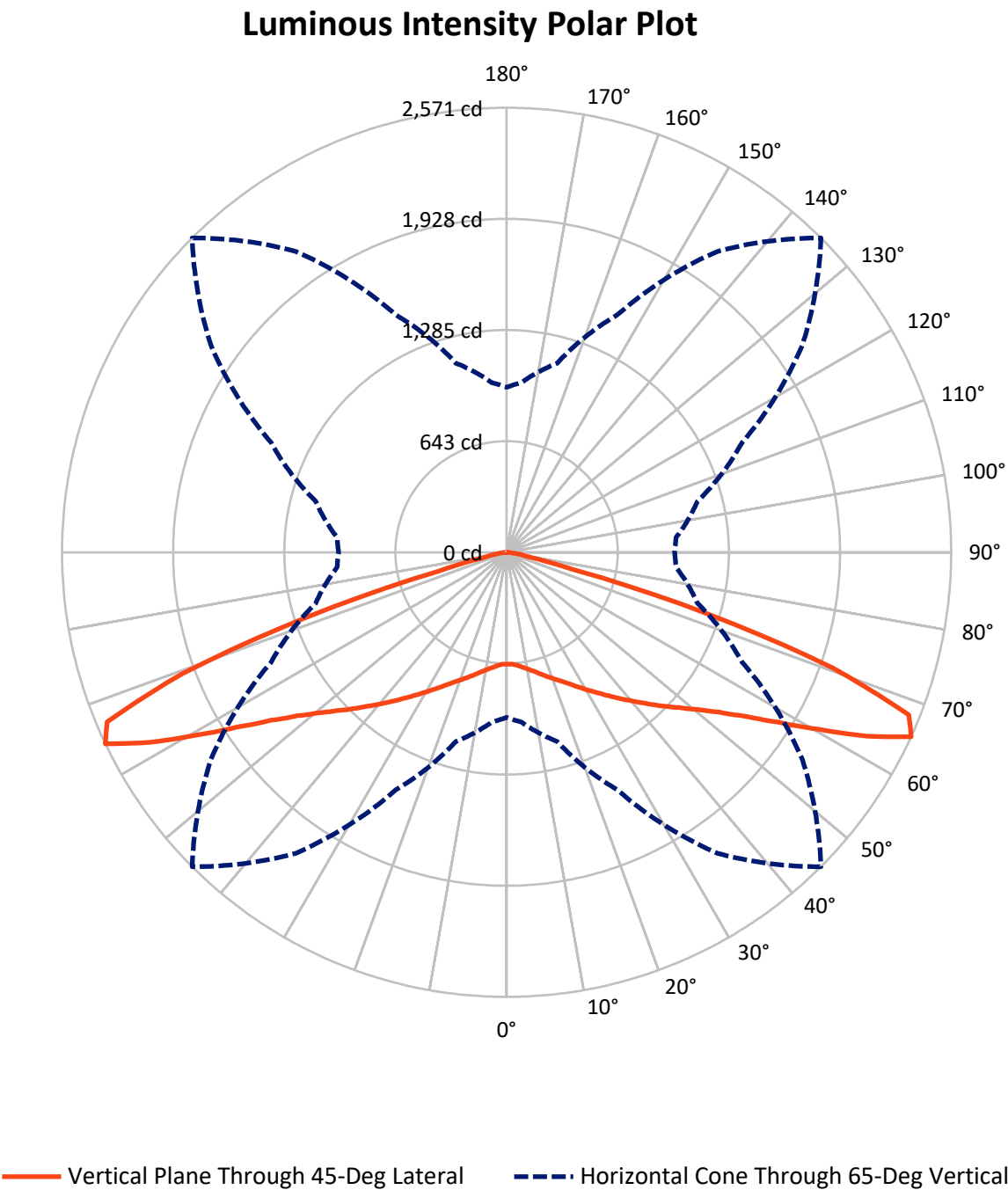
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Short - N/A

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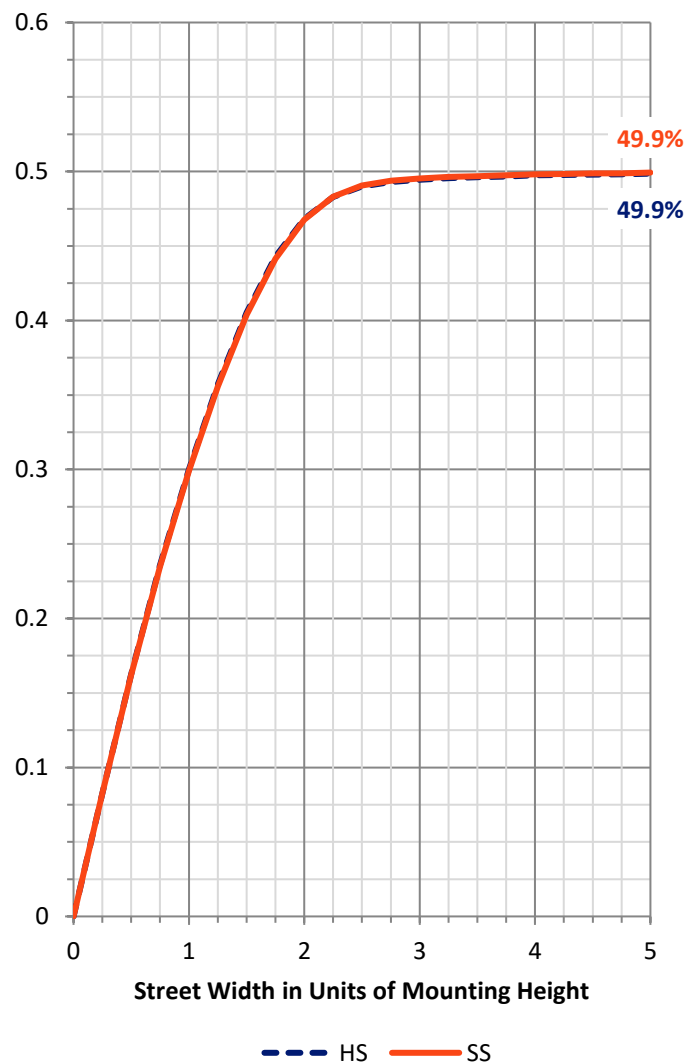
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2718.3	0.0	2718.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2718.3	0.0	2718.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5436.6	0.0	5436.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	208.4	3.8
20°-30°	393.4	7.2
30°-40°	644.2	11.8
40°-50°	998.8	18.4
50°-60°	1475.5	27.1
60°-70°	1404.5	25.8
70°-80°	226.6	4.2
80°-90°	21.4	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°	5436.6	100.0
0°-180°	5436.6	100.0

Coefficient of Utilization



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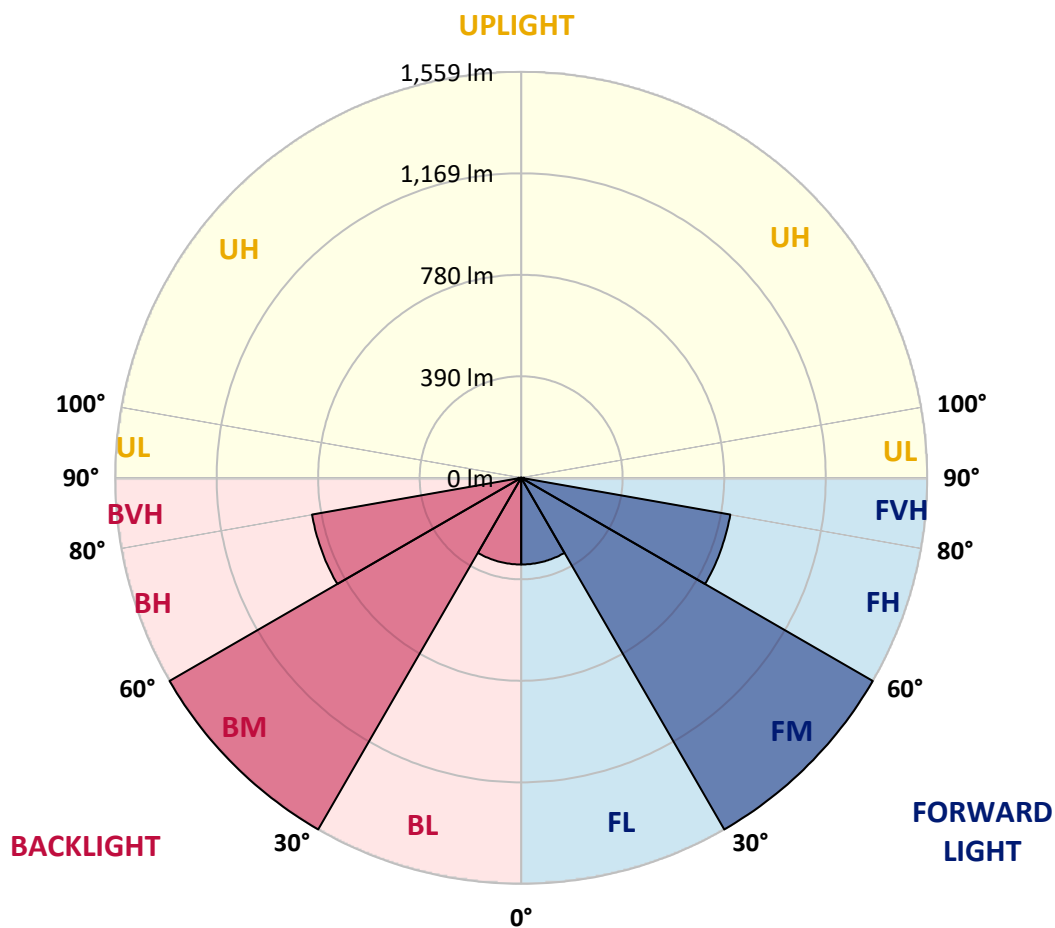
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.8	6.1			
FM	(30°-60°)	1559.2	28.7			
FH	(60°-80°)	815.6	15.0			G1/1800
FVH	(80°-90°)	10.7	0.2			G1/100
BL	(0°-30°)	332.8	6.1	B1/500		
BM	(30°-60°)	1559.2	28.7	B2/2500		
BH	(60°-80°)	815.6	15.0	B2/1000		G1/1800
BVH	(80°-90°)	10.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	651.4	649.2	650.9	649.4	648.4	647.3	647.8	649.7	650.6	650.9	650.9
5°	660.1	658.2	659.0	659.0	657.1	656.5	656.8	658.2	659.8	659.8	659.8
7.5°	674.2	672.4	674.2	673.2	671.6	671.0	670.8	671.8	674.2	674.2	673.4
10°	691.5	689.3	690.3	689.8	687.9	687.1	686.9	688.5	690.6	690.3	689.8
12.5°	710.3	707.9	709.2	707.6	707.0	706.2	706.2	705.9	707.2	706.2	706.7
15°	731.3	729.7	730.2	729.1	729.9	729.4	727.2	726.1	726.6	725.0	725.3
17.5°	756.1	752.3	754.2	753.7	753.7	754.7	751.2	749.9	750.9	749.3	750.7
20°	784.7	780.9	781.8	780.6	779.3	780.4	776.0	777.2	778.0	776.8	779.3
22.5°	816.1	811.2	811.0	811.5	808.5	808.7	805.8	808.5	810.2	807.1	810.2
25°	848.3	843.2	846.6	845.3	841.5	842.3	840.1	842.9	844.2	840.4	844.8
27.5°	882.4	878.8	882.1	882.9	878.3	881.6	878.3	880.8	882.1	876.4	880.8
30°	922.2	918.7	921.7	923.8	918.4	923.6	920.9	922.5	922.8	915.9	920.0
32.5°	965.7	960.1	967.8	968.8	962.9	969.1	965.7	967.8	969.1	959.9	966.2
35°	1018.5	1011.7	1020.4	1019.1	1013.9	1019.1	1015.8	1019.1	1022.3	1011.2	1017.9
37.5°	1075.5	1068.5	1077.7	1075.2	1070.3	1073.9	1071.9	1074.2	1079.3	1067.3	1074.7
40°	1138.3	1129.6	1142.1	1137.8	1133.0	1132.5	1133.6	1135.0	1141.8	1128.4	1132.8
42.5°	1205.4	1196.1	1214.9	1208.1	1201.5	1197.2	1200.7	1203.5	1210.0	1195.0	1202.9
45°	1282.0	1271.4	1295.9	1287.7	1277.4	1268.3	1274.1	1278.2	1287.7	1269.8	1279.0
47.5°	1366.5	1354.5	1380.8	1378.3	1361.4	1341.7	1354.8	1366.5	1373.7	1351.9	1359.3
50°	1449.2	1439.9	1474.4	1477.3	1456.6	1429.1	1447.3	1465.0	1467.0	1438.3	1441.9
52.5°	1526.7	1517.4	1567.3	1586.2	1567.6	1534.8	1554.2	1572.2	1557.8	1520.7	1521.8
55°	1588.6	1581.0	1644.5	1693.1	1699.3	1672.4	1683.8	1683.3	1635.8	1578.8	1580.7
57.5°	1603.6	1602.5	1682.7	1785.6	1851.0	1854.3	1831.7	1773.9	1671.6	1594.9	1590.0
60°	1535.4	1542.2	1652.4	1833.8	2008.4	2081.0	1983.1	1818.0	1630.9	1524.5	1512.0
62.5°	1331.4	1349.4	1482.3	1774.9	2135.5	2341.7	2104.4	1750.9	1463.9	1325.1	1316.9
65°	954.2	985.5	1132.3	1514.6	2124.1	2570.9	2087.0	1502.4	1143.2	983.1	971.3
67.5°	432.9	464.8	589.5	1037.1	1846.3	2508.7	1842.0	1048.0	618.9	466.5	459.6
70°	156.8	162.3	202.4	415.1	1180.0	1998.9	1230.5	418.2	215.2	172.9	170.8
72.5°	94.9	95.7	104.2	148.6	410.0	1213.6	427.4	153.5	106.4	94.4	96.0
75°	60.3	59.8	74.2	90.8	145.3	409.4	152.5	90.8	73.9	67.3	68.0
77.5°	43.4	44.7	53.2	68.0	91.6	138.9	90.0	64.9	53.2	43.7	44.5
80°	32.5	33.3	38.7	52.9	64.4	86.5	57.3	48.0	40.1	27.3	28.1
82.5°	23.5	23.5	25.3	38.4	39.3	46.6	31.1	33.8	26.4	19.4	19.4
85°	13.9	13.6	15.8	23.0	20.5	17.2	14.1	20.7	16.6	12.0	11.7
87.5°	4.9	5.2	4.9	6.6	5.4	4.6	4.4	5.7	4.6	4.1	3.8
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)