

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: P962040

Luminaire Tested: **NVN-SB2B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962040
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-SB2B-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10517.5 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

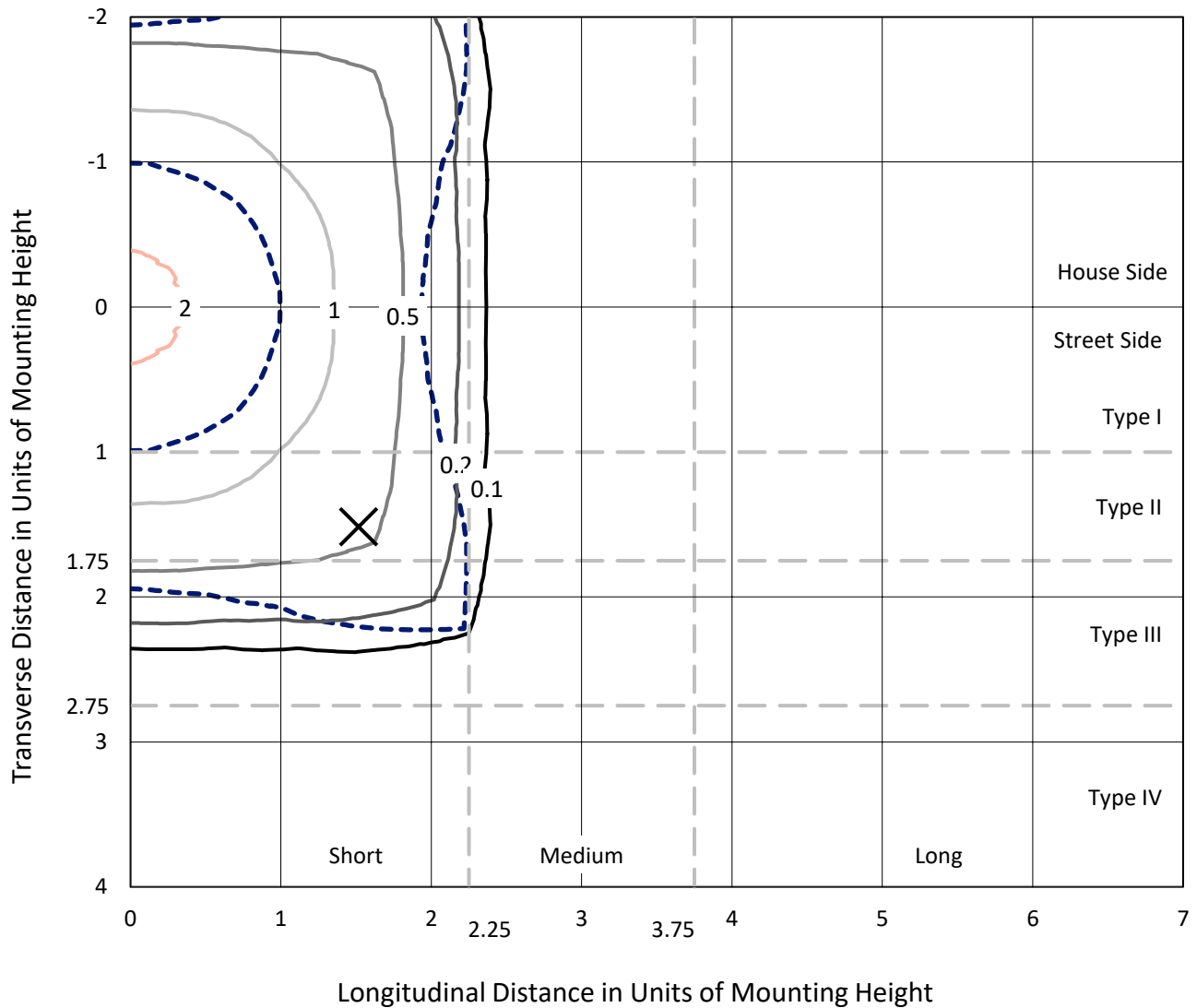
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962040
 CATALOG NUMBER: NVN-SB2B-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

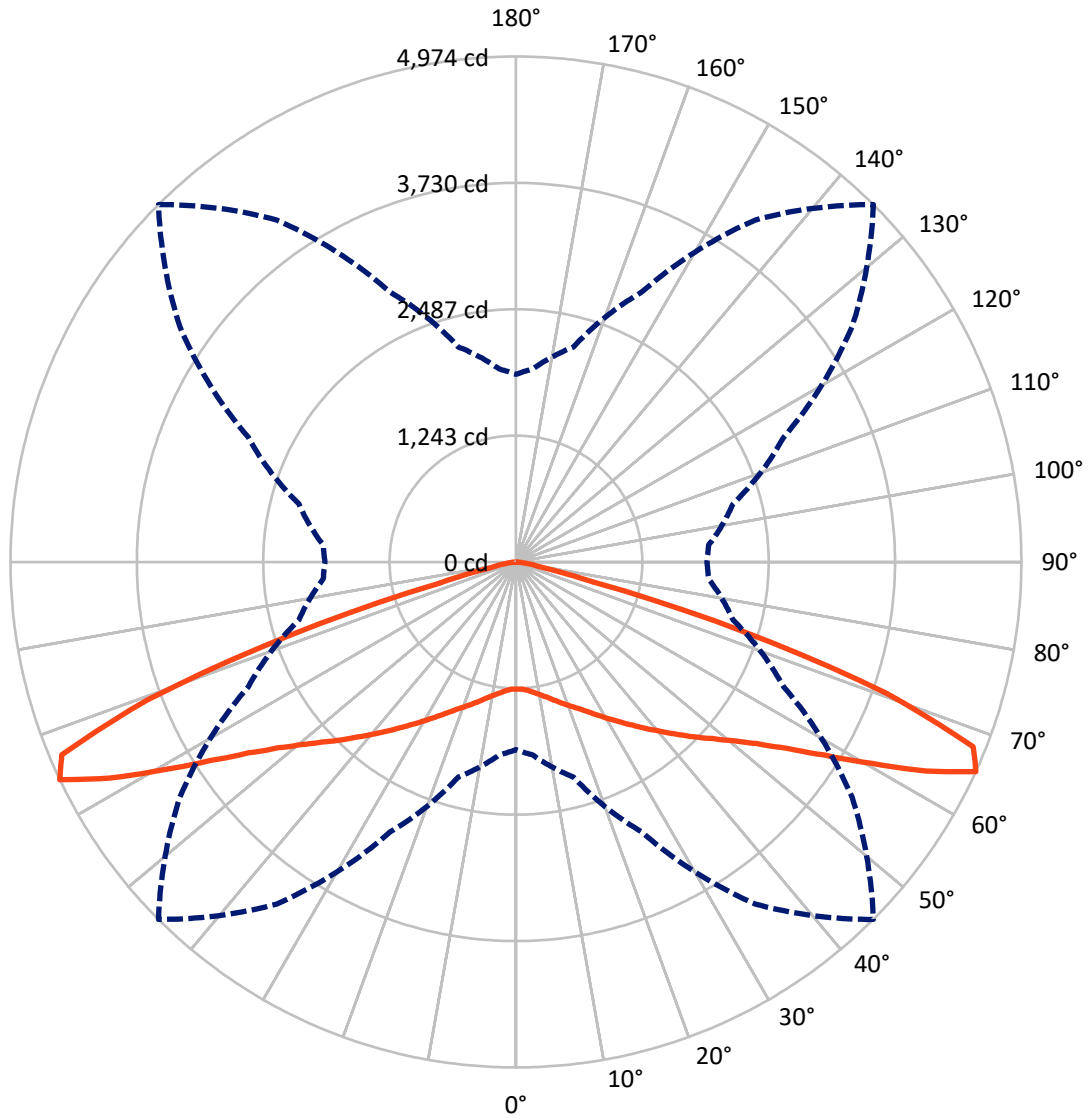
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

REPORT NUMBER: P962040
CATALOG NUMBER: NVN-SB2B-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P962040

CATALOG NUMBER: NVN-SB2B-827-U-5NQ

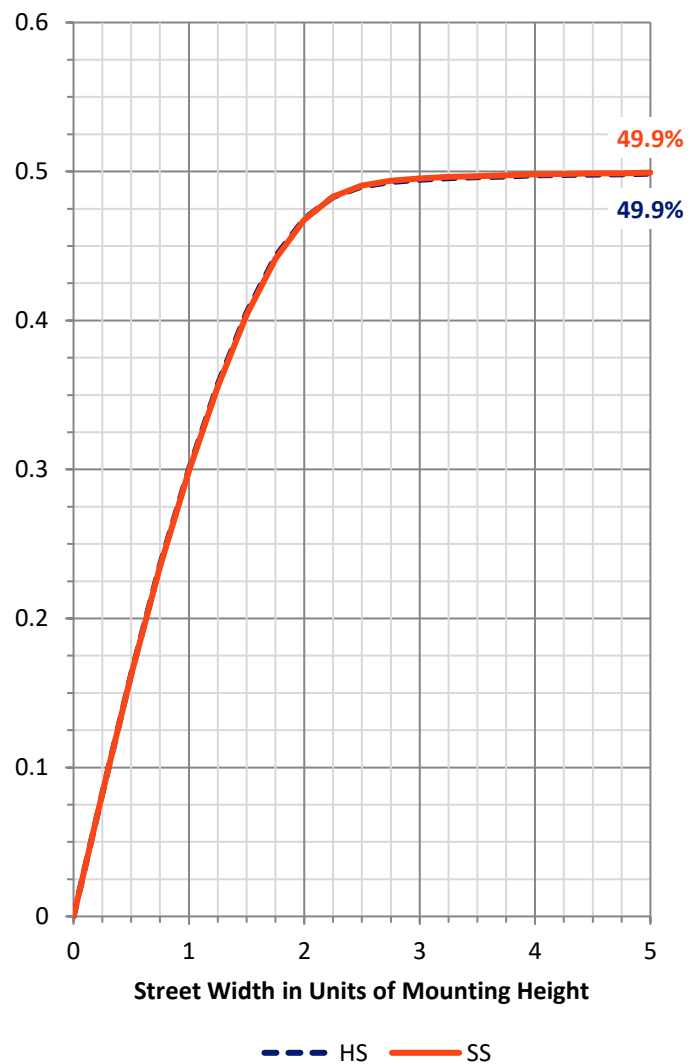
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5258.8	0.0	5258.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5258.8	0.0	5258.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10517.5	0.0	10517.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	1.2
10°-20°	403.1	3.8
20°-30°	761.1	7.2
30°-40°	1246.2	11.8
40°-50°	1932.3	18.4
50°-60°	2854.4	27.1
60°-70°	2717.1	25.8
70°-80°	438.4	4.2
80°-90°	41.3	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°	10517.5	100.0
0°-180°	10517.5	100.0

Coefficient of Utilization



REPORT NUMBER: P962040

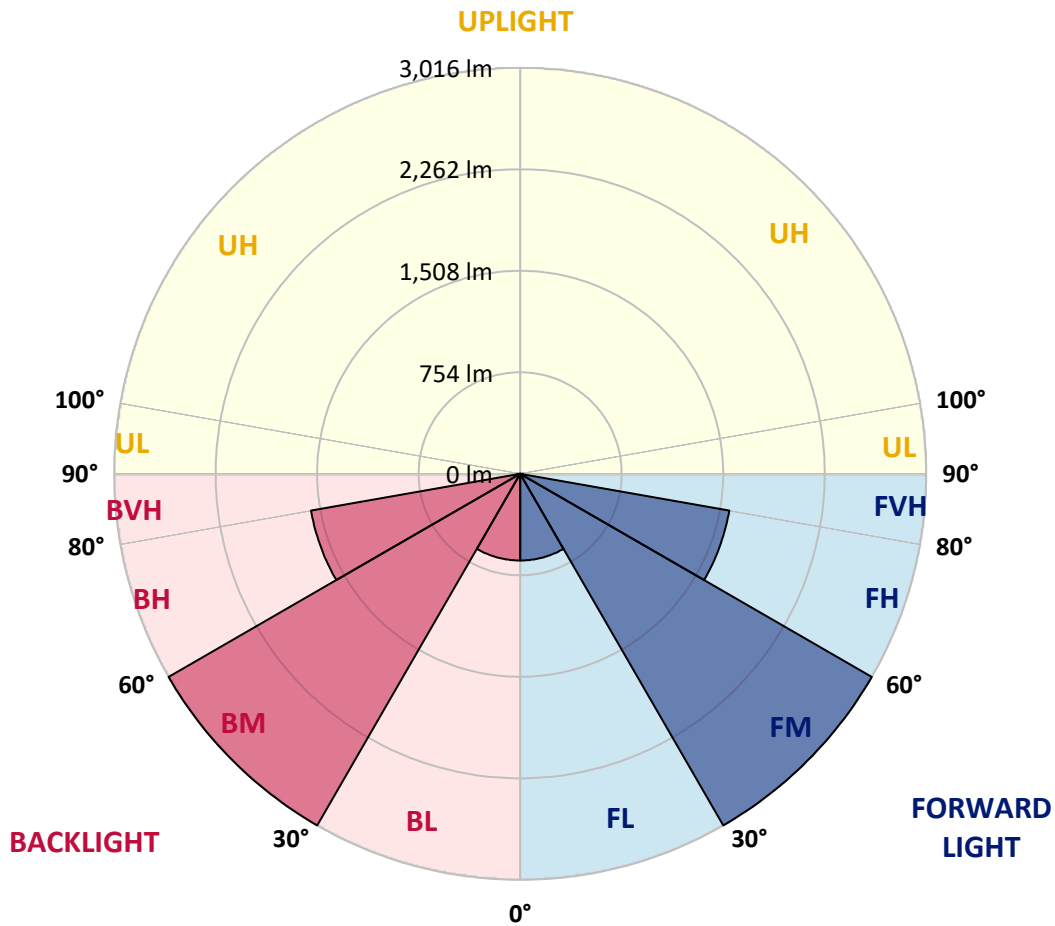
CATALOG NUMBER: NVN-SB2B-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.8	6.1			
FM (30°-60°)	3016.5	28.7			
FH (60°-80°)	1577.8	15.0			G1/1800
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	643.8	6.1	B2/1000		
BM (30°-60°)	3016.5	28.7	B3/5000		
BH (60°-80°)	1577.8	15.0	B3/2500		G1/1800
BVH (80°-90°)	20.7	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-G1

Type V Short



REPORT NUMBER: P962040

CATALOG NUMBER: NVN-SB2B-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7	1251.7
2.5°	1260.1	1255.9	1259.1	1256.4	1254.3	1252.2	1253.3	1257.0	1258.6	1259.1	1259.1
5°	1277.0	1273.4	1274.9	1274.9	1271.2	1270.2	1270.7	1273.4	1276.5	1276.5	1276.5
7.5°	1304.4	1300.7	1304.4	1302.4	1299.2	1298.2	1297.6	1299.7	1304.4	1304.4	1302.9
10°	1337.7	1333.5	1335.6	1334.6	1330.9	1329.2	1328.7	1331.9	1336.1	1335.6	1334.6
12.5°	1374.1	1369.4	1372.0	1368.9	1367.8	1366.2	1366.2	1365.7	1368.3	1366.2	1367.2
15°	1414.7	1411.6	1412.7	1410.5	1412.1	1411.0	1406.8	1404.8	1405.8	1402.6	1403.1
17.5°	1462.8	1455.4	1459.1	1458.1	1458.1	1460.1	1453.2	1450.7	1452.7	1449.6	1452.2
20°	1518.1	1510.7	1512.4	1510.2	1507.7	1509.7	1501.3	1503.4	1505.0	1502.9	1507.7
22.5°	1578.9	1569.4	1568.9	1569.9	1564.0	1564.7	1558.8	1564.0	1567.2	1561.5	1567.2
25°	1641.1	1631.1	1637.9	1635.3	1627.9	1629.5	1625.3	1630.6	1633.2	1625.9	1634.3
27.5°	1707.1	1700.3	1706.5	1708.2	1699.1	1705.5	1699.1	1704.0	1706.5	1695.5	1704.0
30°	1784.1	1777.2	1783.1	1787.3	1776.7	1786.8	1781.4	1784.6	1785.1	1772.0	1779.9
32.5°	1868.1	1857.5	1872.3	1874.4	1862.7	1874.9	1868.1	1872.3	1874.9	1857.0	1869.1
35°	1970.5	1957.2	1974.2	1971.5	1961.4	1971.5	1965.1	1971.5	1977.8	1956.2	1969.3
37.5°	2080.6	2067.0	2085.0	2080.1	2070.7	2077.6	2073.9	2078.1	2088.1	2064.9	2079.1
40°	2202.1	2185.2	2209.5	2201.0	2192.1	2190.9	2193.1	2195.8	2209.0	2183.0	2191.6
42.5°	2331.9	2313.9	2350.3	2337.2	2324.5	2316.1	2323.0	2328.2	2340.9	2311.8	2327.2
45°	2480.2	2459.6	2507.0	2491.3	2471.2	2453.7	2464.8	2472.8	2491.3	2456.4	2474.4
47.5°	2643.8	2620.5	2671.1	2666.4	2633.7	2595.7	2621.0	2643.8	2657.5	2615.3	2629.5
50°	2803.7	2785.7	2852.2	2858.0	2817.9	2764.6	2800.0	2834.2	2837.9	2782.6	2789.4
52.5°	2953.5	2935.6	3032.2	3068.5	3032.7	2969.3	3006.8	3041.6	3013.7	2941.9	2944.0
55°	3073.3	3058.5	3181.5	3275.4	3287.6	3235.3	3257.4	3256.4	3164.6	3054.3	3058.0
57.5°	3102.3	3100.2	3255.3	3454.2	3580.9	3587.3	3543.4	3431.6	3233.7	3085.5	3075.9
60°	2970.3	2983.6	3196.8	3547.7	3885.4	4025.8	3836.4	3517.1	3155.1	2949.2	2925.0
62.5°	2575.7	2610.5	2867.5	3433.7	4131.4	4530.3	4071.2	3387.3	2832.2	2563.5	2547.7
65°	1845.9	1906.6	2190.4	2930.3	4109.1	4973.5	4037.4	2906.5	2211.5	1901.8	1879.1
67.5°	837.4	899.2	1140.3	2006.3	3571.9	4853.2	3563.5	2027.4	1197.3	902.3	889.2
70°	303.4	314.0	391.5	803.2	2282.8	3866.9	2380.5	808.9	416.4	334.6	330.4
72.5°	183.7	185.2	201.6	287.6	793.1	2347.8	826.9	297.0	205.8	182.6	185.7
75°	116.6	115.5	143.5	175.7	281.3	792.1	295.0	175.7	143.0	130.4	131.4
77.5°	83.9	86.5	102.9	131.4	177.3	268.5	174.1	125.6	102.9	84.5	86.0
80°	62.8	64.4	74.9	102.4	124.5	167.3	110.8	92.9	77.6	52.8	54.3
82.5°	45.4	45.4	49.1	74.4	76.0	90.2	60.2	65.4	51.1	37.5	37.5
85°	27.0	26.3	30.6	44.3	39.6	33.2	27.5	40.1	32.2	23.3	22.7
87.5°	9.5	10.0	9.5	12.7	10.6	9.0	8.4	11.1	9.0	7.9	7.4
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)