

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: P962039

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10511.4 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

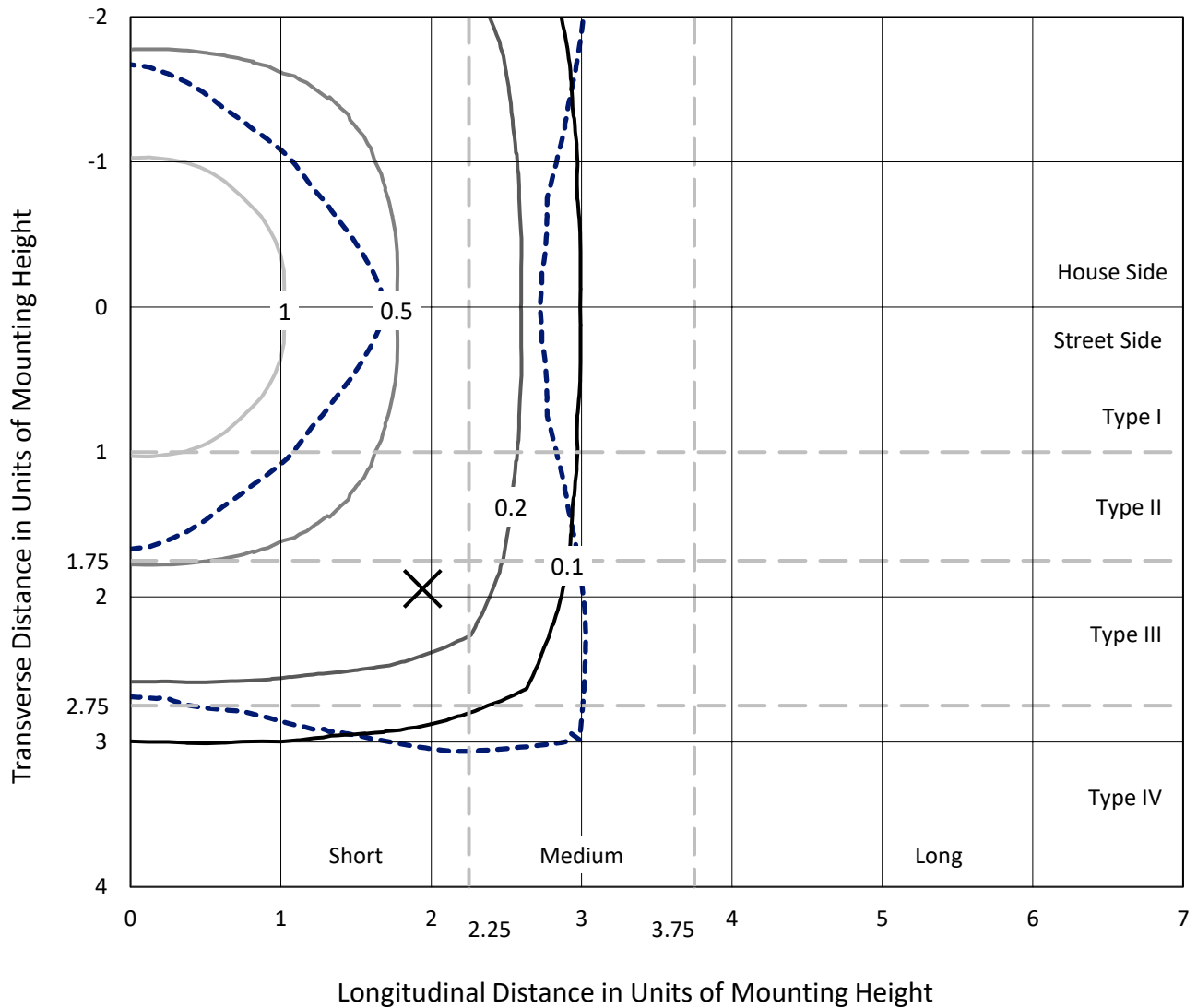
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

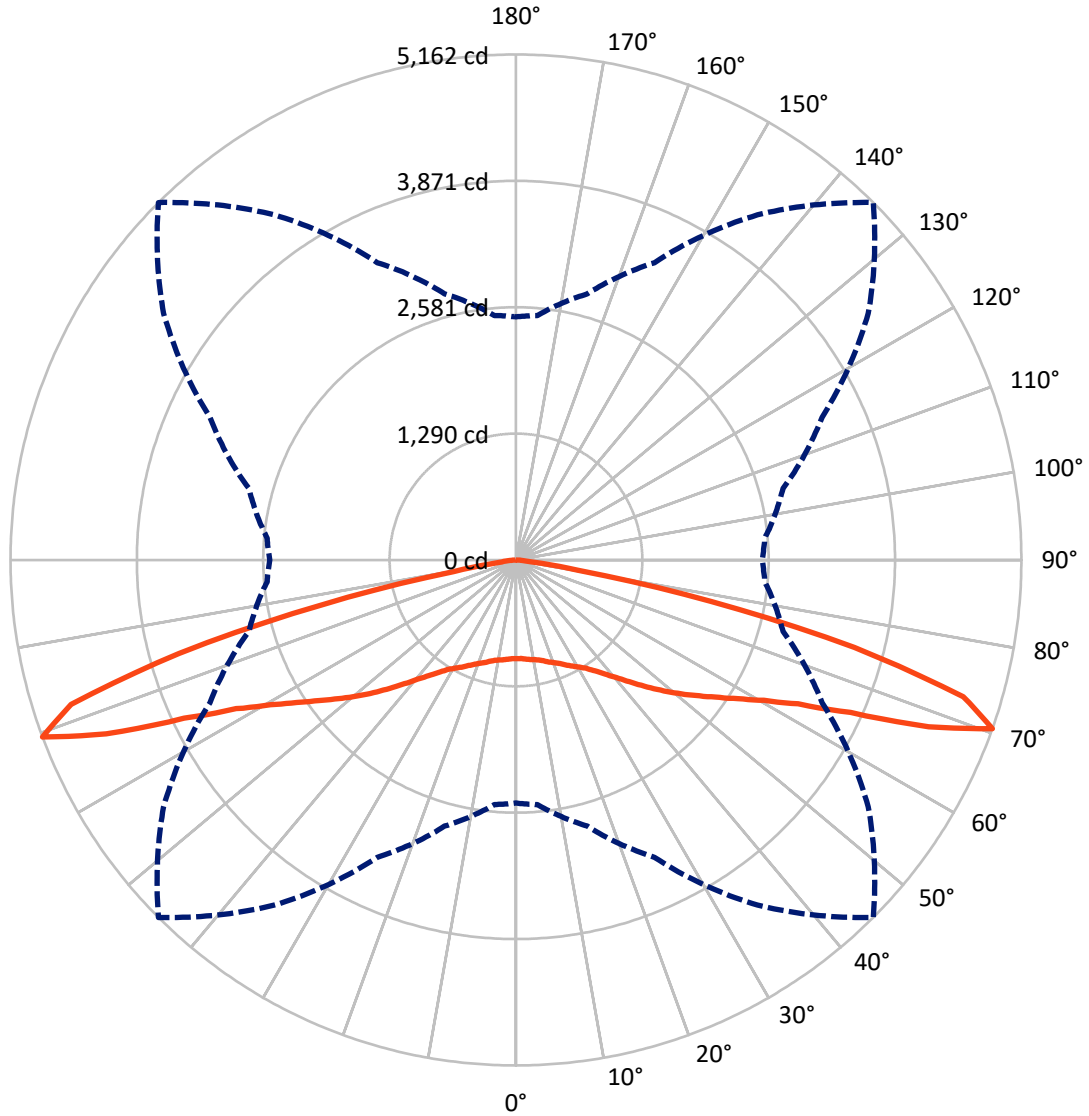
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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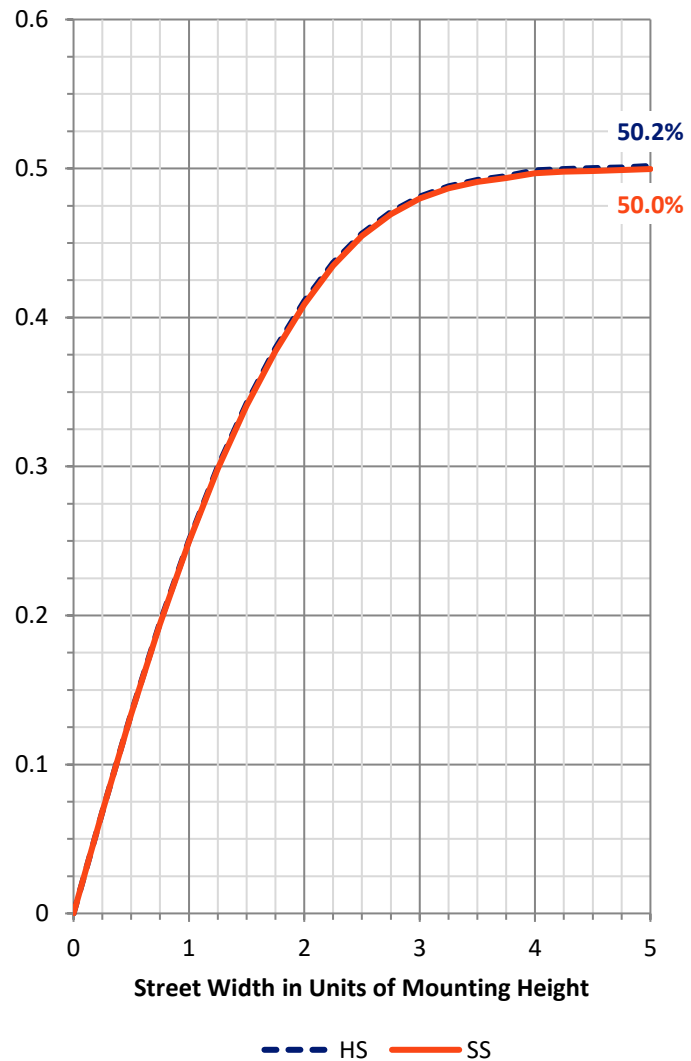
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5255.7	0.0	5255.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5255.7	0.0	5255.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10511.4	0.0	10511.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	0.9
10°-20°	303.3	2.9
20°-30°	542.1	5.2
30°-40°	878.7	8.4
40°-50°	1431.3	13.6
50°-60°	2182.2	20.8
60°-70°	3246.4	30.9
70°-80°	1769.4	16.8
80°-90°	60.3	0.6
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°	10511.4	100.0
0°-180°	10511.4	100.0



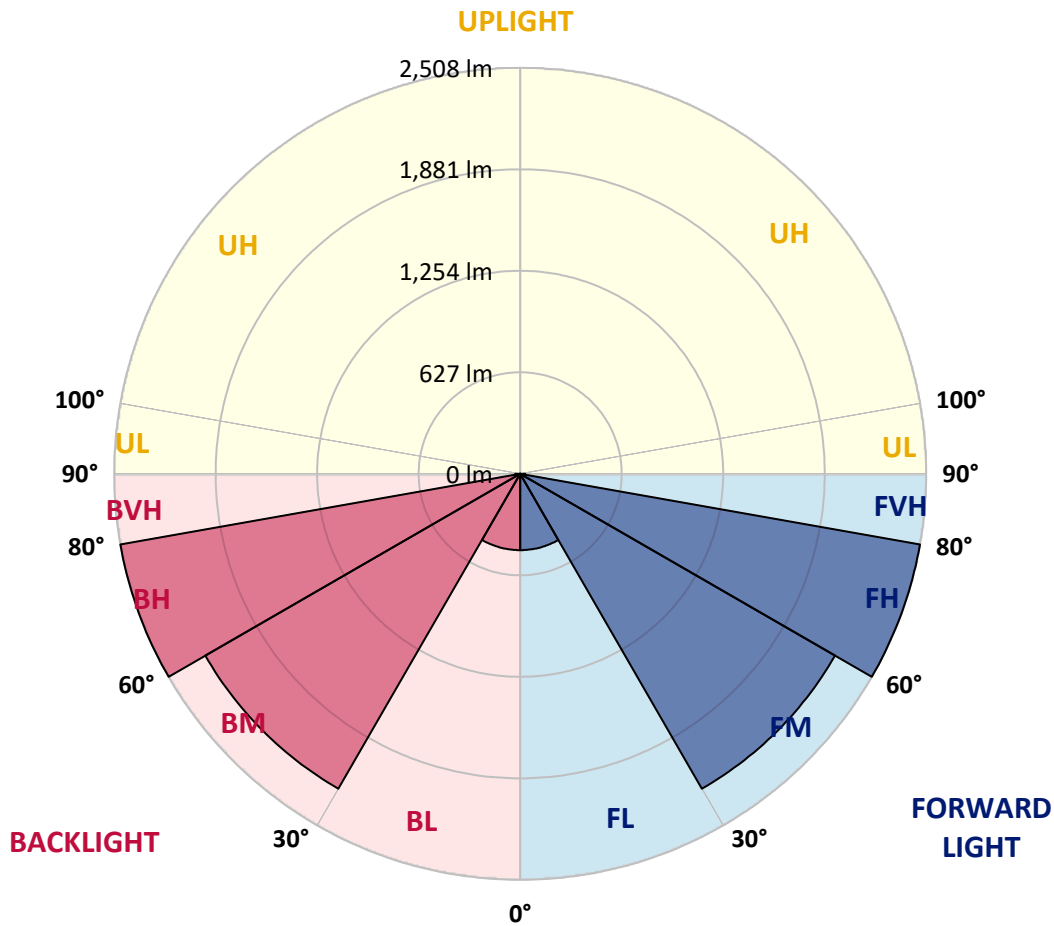
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.6	4.5			
FM (30°-60°)	2246.1	21.4			
FH (60°-80°)	2507.9	23.9			G2/5000
FVH (80°-90°)	30.1	0.3			G1/100
BL (0°-30°)	471.6	4.5	B1/500		
BM (30°-60°)	2246.1	21.4	B2/2500		
BH (60°-80°)	2507.9	23.9	B4/5000		G2/5000
BVH (80°-90°)	30.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9
2.5°	1011.7	1012.7	1010.5	1009.5	1008.5	1006.9	1007.4	1010.0	1012.2	1011.7	1012.2
5°	1020.1	1021.1	1019.6	1019.1	1016.9	1016.4	1016.4	1019.1	1020.6	1019.6	1020.1
7.5°	1029.6	1031.1	1028.5	1028.0	1026.9	1025.9	1025.3	1028.0	1029.6	1029.6	1029.6
10°	1038.5	1040.2	1038.0	1036.5	1035.4	1035.4	1034.3	1036.5	1039.0	1038.5	1038.5
12.5°	1048.1	1049.1	1047.0	1045.9	1045.9	1047.6	1045.9	1047.0	1049.1	1048.1	1047.6
15°	1059.6	1060.2	1059.6	1061.3	1063.8	1069.2	1064.4	1063.3	1064.4	1061.8	1061.8
17.5°	1075.5	1076.6	1078.6	1082.3	1086.0	1095.5	1087.1	1084.4	1084.4	1079.2	1079.2
20°	1095.0	1096.5	1099.7	1106.1	1110.8	1119.8	1111.4	1107.7	1106.1	1099.2	1099.2
22.5°	1115.6	1118.3	1123.0	1131.4	1139.9	1148.3	1139.9	1133.5	1128.8	1119.8	1119.3
25°	1139.3	1142.5	1149.8	1163.6	1175.3	1187.4	1177.3	1164.7	1155.2	1142.5	1142.0
27.5°	1173.1	1176.8	1185.8	1202.6	1217.4	1227.9	1218.5	1202.1	1188.9	1173.6	1173.1
30°	1220.6	1224.3	1234.8	1252.8	1262.8	1269.7	1263.3	1250.7	1234.8	1217.4	1217.4
32.5°	1281.9	1286.6	1298.2	1315.1	1317.2	1318.3	1316.1	1309.7	1298.2	1277.0	1277.6
35°	1359.4	1364.7	1377.9	1391.5	1389.5	1391.5	1388.5	1386.3	1377.9	1353.6	1353.6
37.5°	1454.4	1460.7	1474.5	1485.0	1479.7	1477.0	1477.6	1478.2	1473.3	1446.5	1446.5
40°	1564.7	1573.2	1583.1	1594.2	1585.3	1577.4	1582.6	1586.8	1582.6	1555.1	1555.1
42.5°	1678.1	1690.2	1700.8	1716.7	1709.3	1699.2	1706.6	1711.3	1702.4	1672.9	1675.0
45°	1804.3	1815.9	1829.6	1853.3	1848.1	1837.5	1848.1	1849.1	1833.8	1799.0	1802.7
47.5°	1934.6	1946.8	1967.3	1999.0	1996.9	1985.2	1999.0	1991.6	1972.1	1930.4	1927.7
50°	2058.1	2075.0	2106.7	2151.0	2155.2	2140.9	2159.4	2145.1	2112.4	2060.2	2059.1
52.5°	2174.2	2192.2	2242.3	2302.5	2317.7	2299.3	2324.1	2299.3	2250.2	2183.1	2176.8
55°	2296.1	2316.2	2375.7	2454.4	2485.0	2471.3	2494.5	2457.0	2387.4	2306.1	2295.1
57.5°	2439.6	2451.8	2523.0	2616.4	2668.2	2671.3	2681.8	2618.6	2534.1	2441.8	2429.0
60°	2595.3	2612.2	2689.8	2801.6	2883.4	2909.9	2898.7	2804.8	2706.6	2600.6	2583.7
62.5°	2794.8	2813.2	2906.1	3040.1	3169.5	3234.9	3191.6	3055.4	2934.1	2807.0	2784.7
65°	2960.0	2980.5	3148.4	3387.4	3622.8	3754.2	3645.4	3394.8	3176.3	2996.9	2967.4
67.5°	2840.2	2865.5	3128.8	3567.9	4153.1	4545.3	4173.2	3621.7	3193.7	2950.5	2914.1
70°	2482.3	2506.1	2813.2	3349.9	4302.4	5161.6	4392.1	3448.6	2823.3	2551.0	2514.5
72.5°	1648.1	1724.6	2035.4	2679.2	3841.8	4776.4	3879.7	2624.8	1888.2	1644.4	1591.1
75°	546.7	607.9	820.1	1389.0	2573.2	3572.1	2449.6	1229.1	649.6	467.6	442.2
77.5°	137.8	158.9	219.0	397.4	1026.4	2033.8	924.0	324.5	176.8	123.5	110.3
80°	67.0	73.9	105.6	132.4	257.0	646.5	241.2	124.5	83.3	64.4	59.1
82.5°	36.9	37.5	59.7	74.9	95.5	167.3	99.2	72.8	48.1	39.1	39.1
85°	22.7	22.1	31.7	40.1	40.1	59.7	47.5	40.1	27.5	24.3	25.3
87.5°	9.0	9.0	11.6	12.7	11.1	15.3	12.1	13.2	10.6	10.0	10.6
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)