

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: P959406

Luminaire Tested: **NVN-SB1A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959406
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-SB1A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4045.7 lumens
Efficiency: N/A
Efficacy: 130.9 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

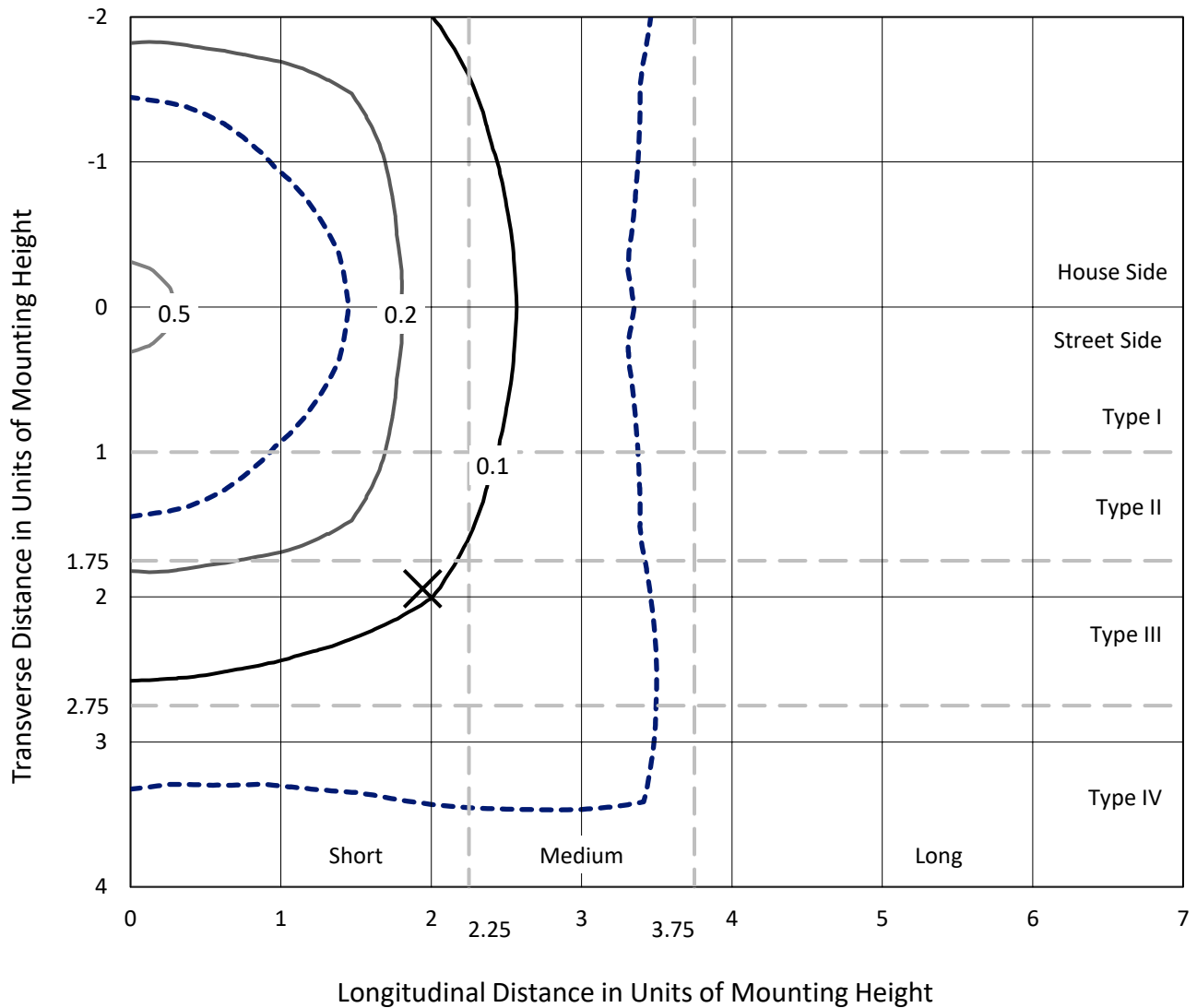
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

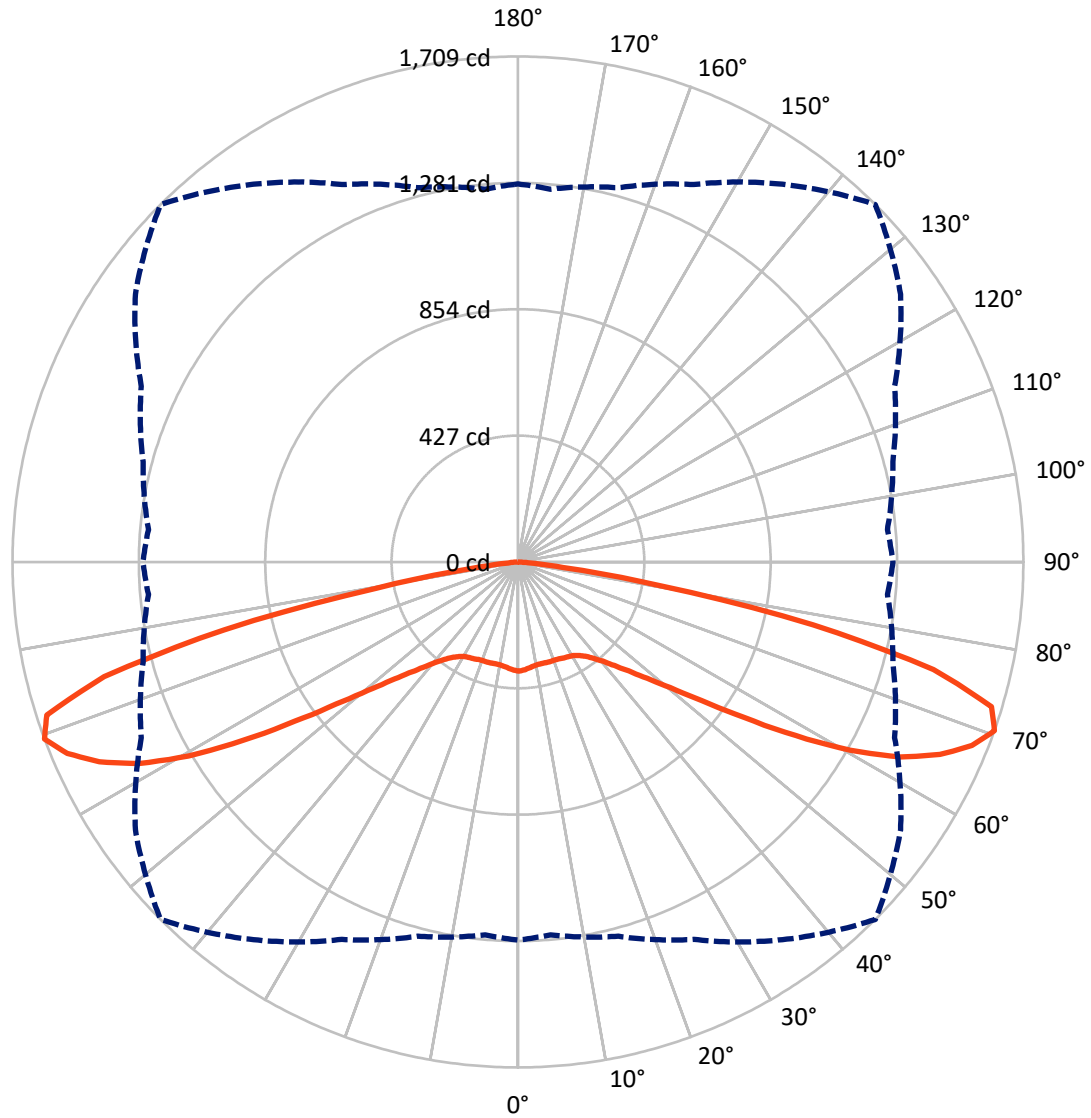
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2022.8	0.0	2022.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2022.8	0.0	2022.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4045.7	0.0	4045.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	0.8
10°-20°	100.8	2.5
20°-30°	167.7	4.1
30°-40°	253.7	6.3
40°-50°	421.6	10.4
50°-60°	795.5	19.7
60°-70°	1343.2	33.2
70°-80°	882.6	21.8
80°-90°	46.2	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°	4045.7	100.0
0°-180°	4045.7	100.0



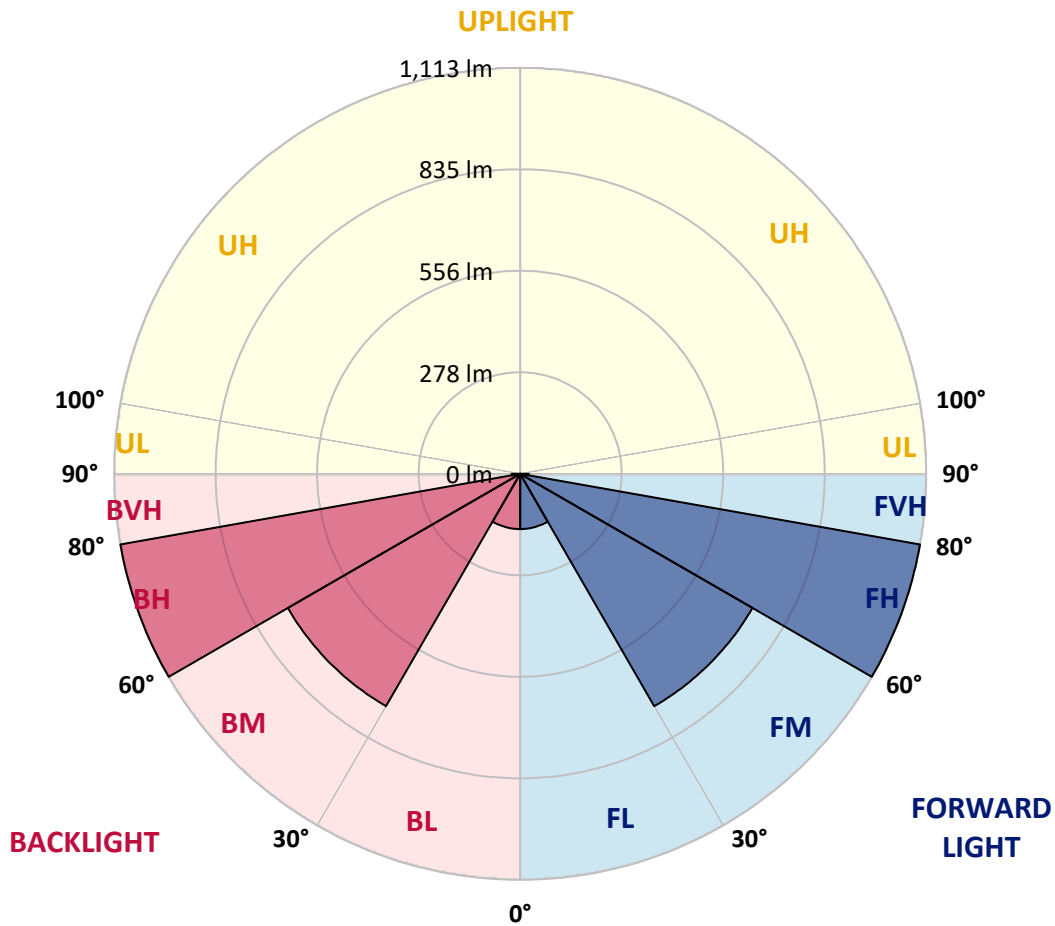
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.4	3.7			
FM (30°-60°)	735.4	18.2			
FH (60°-80°)	1112.9	27.5			G1/1800
FVH (80°-90°)	23.1	0.6			G1/100
BL (0°-30°)	151.4	3.7	B1/500		
BM (30°-60°)	735.4	18.2	B1/1000		
BH (60°-80°)	1112.9	27.5	B3/2500		G1/1800
BVH (80°-90°)	23.1	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°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	366.7	367.8	367.4	366.5	366.5	365.9	366.5	367.0	367.6	368.0	367.8
5°	361.9	362.7	362.5	361.9	362.1	361.5	361.9	362.5	363.0	363.2	363.2
7.5°	357.7	358.5	358.1	357.1	357.1	356.4	356.6	357.3	357.9	358.1	358.1
10°	356.6	357.5	356.2	354.5	353.9	353.1	353.3	353.9	355.2	355.8	355.8
12.5°	357.1	357.7	356.4	353.9	353.3	352.4	352.4	353.1	354.8	355.6	355.8
15°	358.3	359.0	357.1	354.3	353.7	353.1	352.8	353.7	355.6	357.1	357.3
17.5°	360.6	361.3	358.3	354.5	353.7	353.9	353.7	354.3	357.3	360.0	360.0
20°	362.7	363.2	359.2	354.5	353.7	353.9	353.7	355.0	358.7	362.5	362.7
22.5°	363.4	363.8	360.0	356.0	355.4	355.6	355.4	356.6	360.2	364.0	364.0
25°	363.6	364.2	361.3	358.1	359.2	359.6	359.2	359.4	362.1	365.5	365.3
27.5°	366.7	367.6	364.8	362.1	362.7	362.5	363.2	363.8	365.9	369.3	368.4
30°	373.2	373.9	371.6	368.8	368.4	367.0	368.8	370.9	373.2	376.2	375.6
32.5°	384.0	385.2	382.3	379.4	377.5	376.6	378.1	381.7	384.8	388.0	386.7
35°	401.8	402.7	400.0	394.5	391.1	391.1	392.4	397.0	402.1	406.1	404.6
37.5°	427.1	428.1	423.3	416.8	411.7	411.7	413.4	418.3	425.8	431.5	429.4
40°	457.8	459.3	453.2	446.4	441.6	440.7	442.9	448.3	455.5	462.6	460.3
42.5°	494.8	496.5	488.5	482.6	478.8	478.8	479.9	484.9	491.4	500.3	499.6
45°	542.1	545.1	534.1	528.2	524.7	525.5	526.1	530.5	536.4	546.5	546.1
47.5°	598.5	601.4	589.9	583.7	583.1	587.1	584.6	587.7	590.9	602.5	599.1
50°	662.4	667.5	659.5	659.1	660.3	667.7	661.7	663.5	659.9	667.3	662.8
52.5°	740.7	747.9	746.5	749.1	763.1	778.3	764.8	758.9	745.5	747.7	739.9
55°	835.5	846.6	848.7	863.9	895.8	926.7	898.1	874.3	845.7	840.5	832.3
57.5°	943.3	952.1	962.3	993.1	1052.9	1107.8	1052.9	1000.3	955.3	944.6	937.1
60°	1059.4	1070.3	1080.0	1125.7	1214.4	1291.6	1212.7	1129.2	1069.7	1055.2	1042.6
62.5°	1184.1	1198.2	1204.9	1255.6	1359.0	1451.2	1360.5	1259.4	1193.4	1177.8	1165.2
65°	1303.8	1315.3	1322.9	1377.0	1475.8	1568.0	1482.5	1382.8	1314.9	1294.5	1284.4
67.5°	1359.5	1365.8	1384.3	1445.5	1549.8	1655.2	1567.4	1452.0	1376.1	1340.4	1340.8
70°	1277.9	1265.1	1309.6	1407.6	1558.6	1708.6	1578.8	1404.7	1311.8	1253.7	1267.6
72.5°	987.5	965.4	1042.8	1210.4	1457.7	1674.4	1467.8	1219.9	1090.9	973.2	1002.4
75°	537.3	512.3	619.1	831.1	1162.5	1451.4	1189.1	854.8	689.3	533.3	568.0
77.5°	151.6	142.2	228.4	402.1	699.2	1019.1	726.1	410.9	270.8	160.6	178.6
80°	46.4	45.0	61.0	121.2	296.9	488.1	285.4	122.6	77.6	49.0	51.8
82.5°	27.6	25.2	30.2	44.2	75.7	153.3	73.6	46.0	37.0	24.8	27.0
85°	15.8	14.8	17.8	21.4	25.4	32.6	21.2	21.8	19.8	13.2	13.8
87.5°	6.6	5.8	7.0	6.8	5.8	7.6	5.6	6.8	8.0	5.2	4.8
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)