

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: P882452

Luminaire Tested: **NVN-SB2B-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10157 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

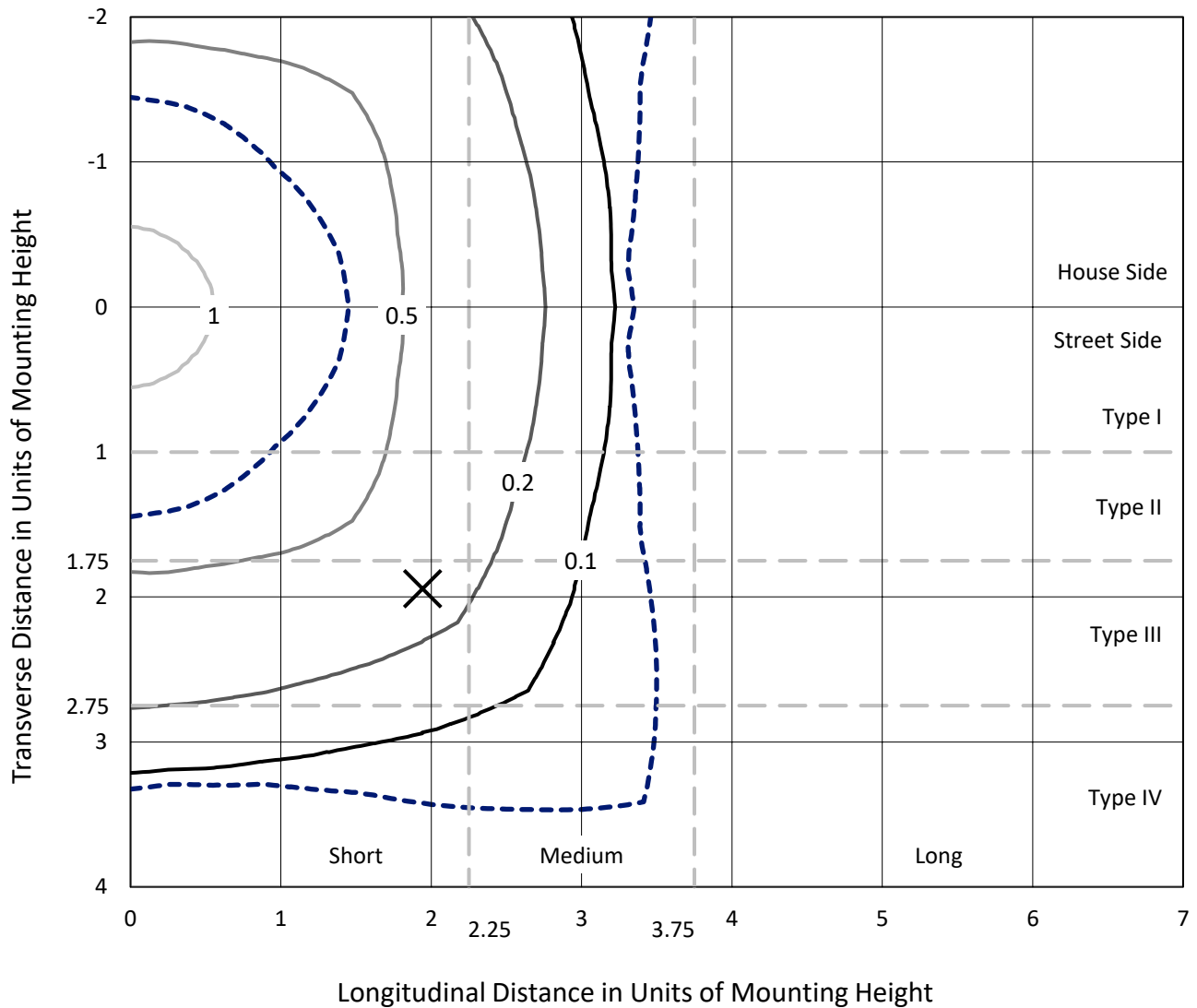
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882452
 CATALOG NUMBER: NVN-SB2B-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

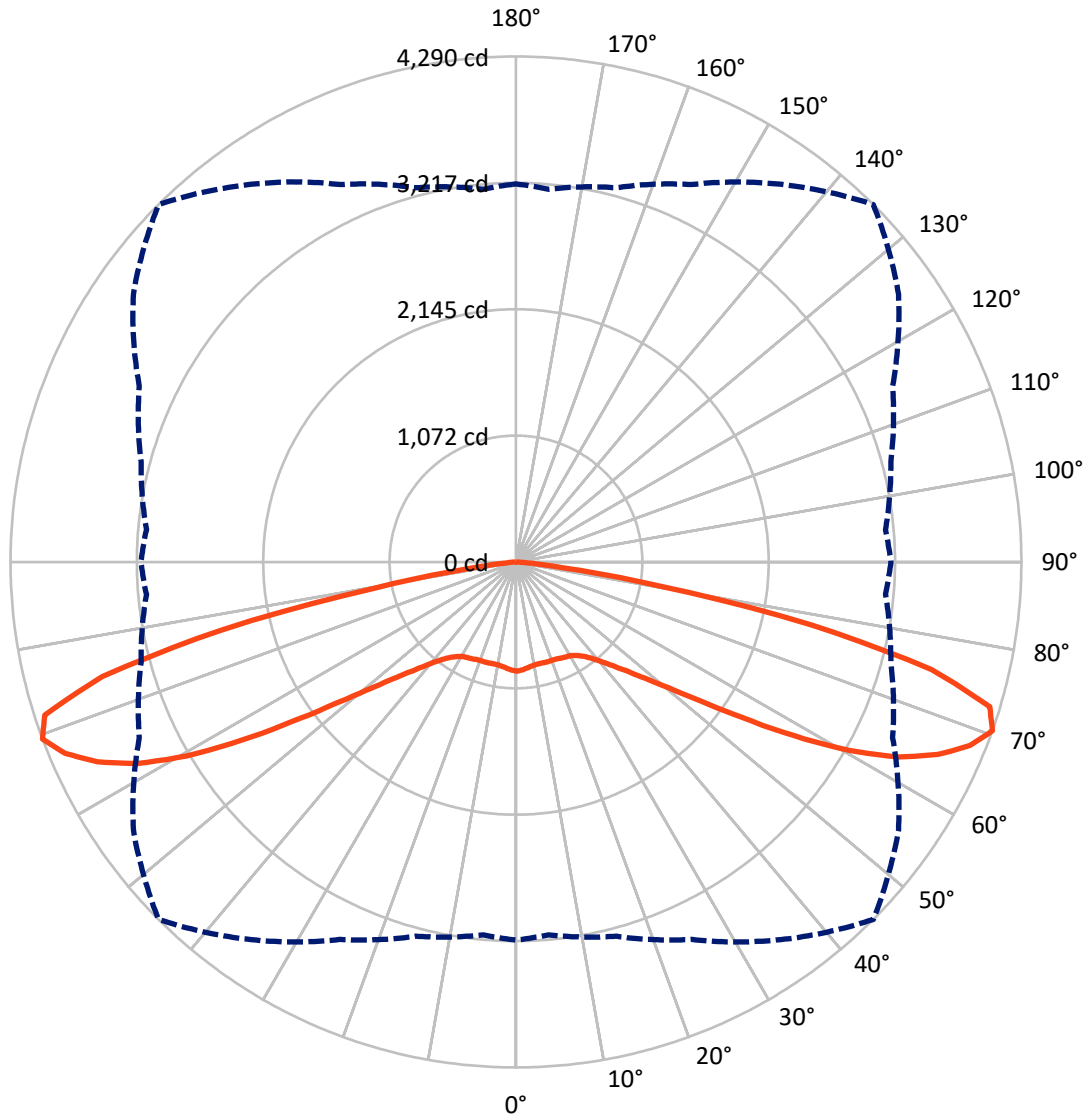
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

REPORT NUMBER: P882452
CATALOG NUMBER: NVN-SB2B-830-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P882452
 CATALOG NUMBER: NVN-SB2B-830-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5078.5	0.0	5078.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5078.5	0.0	5078.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10157.0	0.0	10157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	0.8
10°-20°	253.1	2.5
20°-30°	421.1	4.1
30°-40°	636.9	6.3
40°-50°	1058.4	10.4
50°-60°	1997.1	19.7
60°-70°	3372.2	33.2
70°-80°	2215.9	21.8
80°-90°	116.1	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°	10157.0	100.0
0°-180°	10157.0	100.0



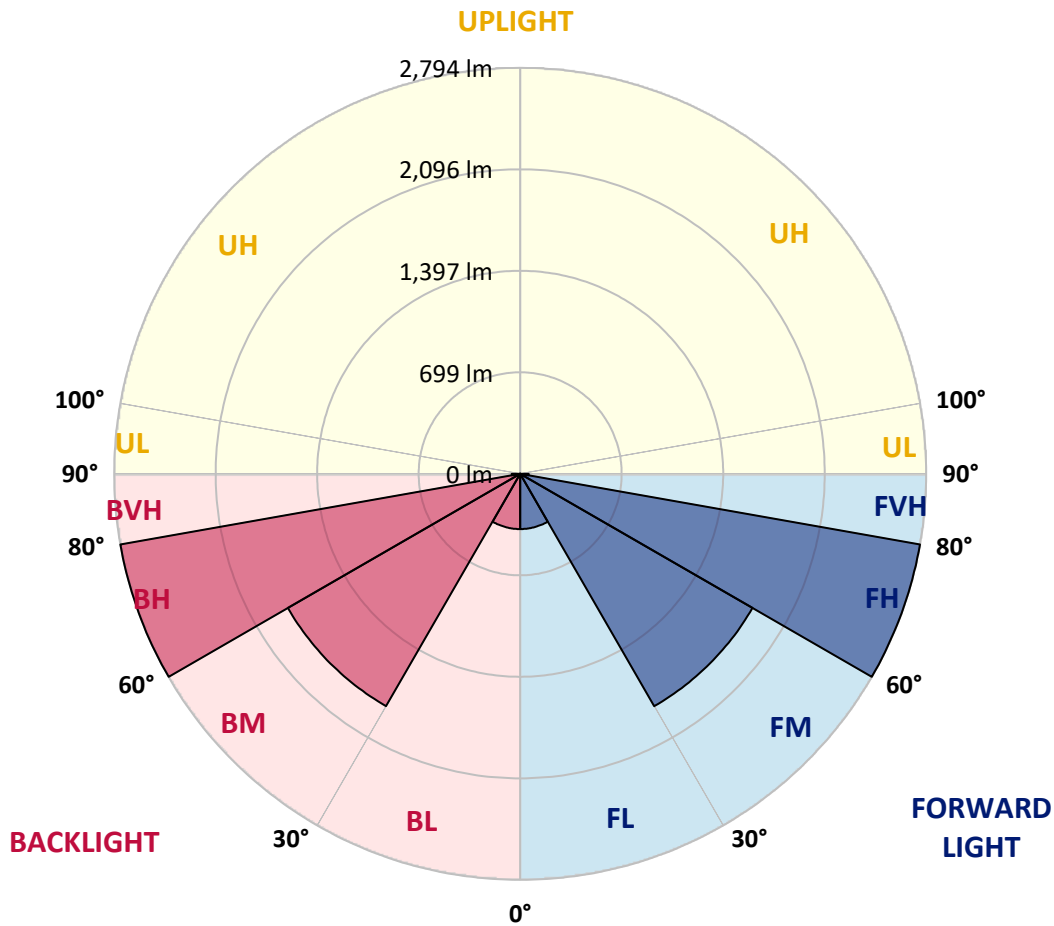
REPORT NUMBER: P882452
 CATALOG NUMBER: NVN-SB2B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.2	3.7			
FM (30°-60°)	1846.2	18.2			
FH (60°-80°)	2794.1	27.5			G2/5000
FVH (80°-90°)	58.0	0.6			G1/100
BL (0°-30°)	380.2	3.7	B1/500		
BM (30°-60°)	1846.2	18.2	B2/2500		
BH (60°-80°)	2794.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	58.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P882452

CATALOG NUMBER: NVN-SB2B-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5	926.5
2.5°	920.7	923.4	922.3	920.2	920.2	918.6	920.2	921.2	922.8	923.9	923.4
5°	908.6	910.7	910.2	908.6	909.1	907.5	908.6	910.2	911.2	911.7	911.7
7.5°	898.0	900.1	899.1	896.4	896.4	894.8	895.4	897.0	898.5	899.1	899.1
10°	895.4	897.5	894.3	890.1	888.5	886.4	886.9	888.5	891.7	893.3	893.3
12.5°	896.4	898.0	894.8	888.5	886.9	884.8	884.8	886.4	890.6	892.7	893.3
15°	899.6	901.2	896.4	889.6	888.0	886.4	885.9	888.0	892.7	896.4	897.0
17.5°	905.4	907.0	899.6	890.1	888.0	888.5	888.0	889.6	897.0	903.8	903.8
20°	910.7	911.7	901.7	890.1	888.0	888.5	888.0	891.2	900.7	910.2	910.7
22.5°	912.3	913.3	903.8	893.8	892.2	892.7	892.2	895.4	904.3	913.9	913.9
25°	912.8	914.4	907.0	899.1	901.7	902.8	901.7	902.2	909.1	917.5	917.0
27.5°	920.7	922.8	916.0	909.1	910.7	910.2	911.7	913.3	918.6	927.1	924.9
30°	937.1	938.7	932.9	926.0	924.9	921.2	926.0	931.3	937.1	944.5	942.9
32.5°	964.0	967.2	959.8	952.4	947.6	945.5	949.2	958.2	966.1	974.0	970.9
35°	1008.9	1011.0	1004.1	990.4	982.0	982.0	985.1	996.7	1009.4	1019.4	1015.7
37.5°	1072.2	1074.9	1062.7	1046.4	1033.7	1033.7	1037.9	1050.1	1069.1	1083.3	1078.0
40°	1149.3	1153.0	1137.7	1120.8	1108.7	1106.5	1111.8	1125.6	1143.5	1161.5	1155.6
42.5°	1242.2	1246.5	1226.4	1211.6	1202.1	1202.1	1204.7	1217.4	1233.8	1256.0	1254.4
45°	1361.0	1368.4	1341.0	1326.2	1317.2	1319.3	1320.9	1332.0	1346.8	1372.1	1371.0
47.5°	1502.5	1509.9	1480.9	1465.5	1464.0	1474.0	1467.7	1475.6	1483.5	1512.5	1504.1
50°	1663.0	1675.7	1655.6	1654.5	1657.7	1676.2	1661.4	1665.6	1656.7	1675.1	1664.0
52.5°	1859.4	1877.9	1874.2	1880.5	1915.9	1953.9	1920.1	1905.3	1871.5	1877.3	1857.8
55°	2097.5	2125.5	2130.7	2168.7	2249.0	2326.6	2254.8	2195.1	2123.3	2110.1	2089.6
57.5°	2368.3	2390.5	2415.8	2493.4	2643.4	2781.2	2643.4	2511.4	2398.4	2371.5	2352.5
60°	2659.7	2687.2	2711.5	2826.0	3048.8	3242.6	3044.6	2835.0	2685.6	2649.2	2617.5
62.5°	2972.8	3008.2	3025.1	3152.3	3412.0	3643.3	3415.7	3161.8	2996.0	2957.0	2925.3
65°	3273.2	3302.2	3321.2	3456.9	3705.0	3936.8	3721.9	3471.7	3301.2	3250.0	3224.6
67.5°	3413.1	3428.9	3475.4	3629.0	3890.9	4155.4	3935.2	3645.4	3454.8	3365.0	3366.1
70°	3208.3	3176.0	3288.0	3534.0	3913.0	4289.5	3963.7	3526.6	3293.2	3147.5	3182.4
72.5°	2479.2	2423.7	2618.0	3038.8	3659.6	4203.9	3685.0	3062.5	2738.9	2443.3	2516.7
75°	1348.9	1286.0	1554.2	2086.4	2918.4	3643.8	2985.5	2146.0	1730.6	1338.8	1425.9
77.5°	380.6	356.9	573.3	1009.4	1755.4	2558.4	1823.0	1031.6	680.0	403.3	448.2
80°	116.7	113.0	153.1	304.1	745.4	1225.3	716.4	307.8	194.8	123.0	129.9
82.5°	69.2	63.4	76.0	110.9	190.1	384.9	184.8	115.6	92.9	62.3	67.6
85°	39.6	37.0	44.9	53.8	63.9	81.8	53.3	54.9	49.6	33.3	34.8
87.5°	16.4	14.8	17.4	16.9	14.8	19.0	14.3	16.9	20.1	13.2	12.1
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)