

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: P881555

Luminaire Tested: **NVN-SB1A-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4441 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

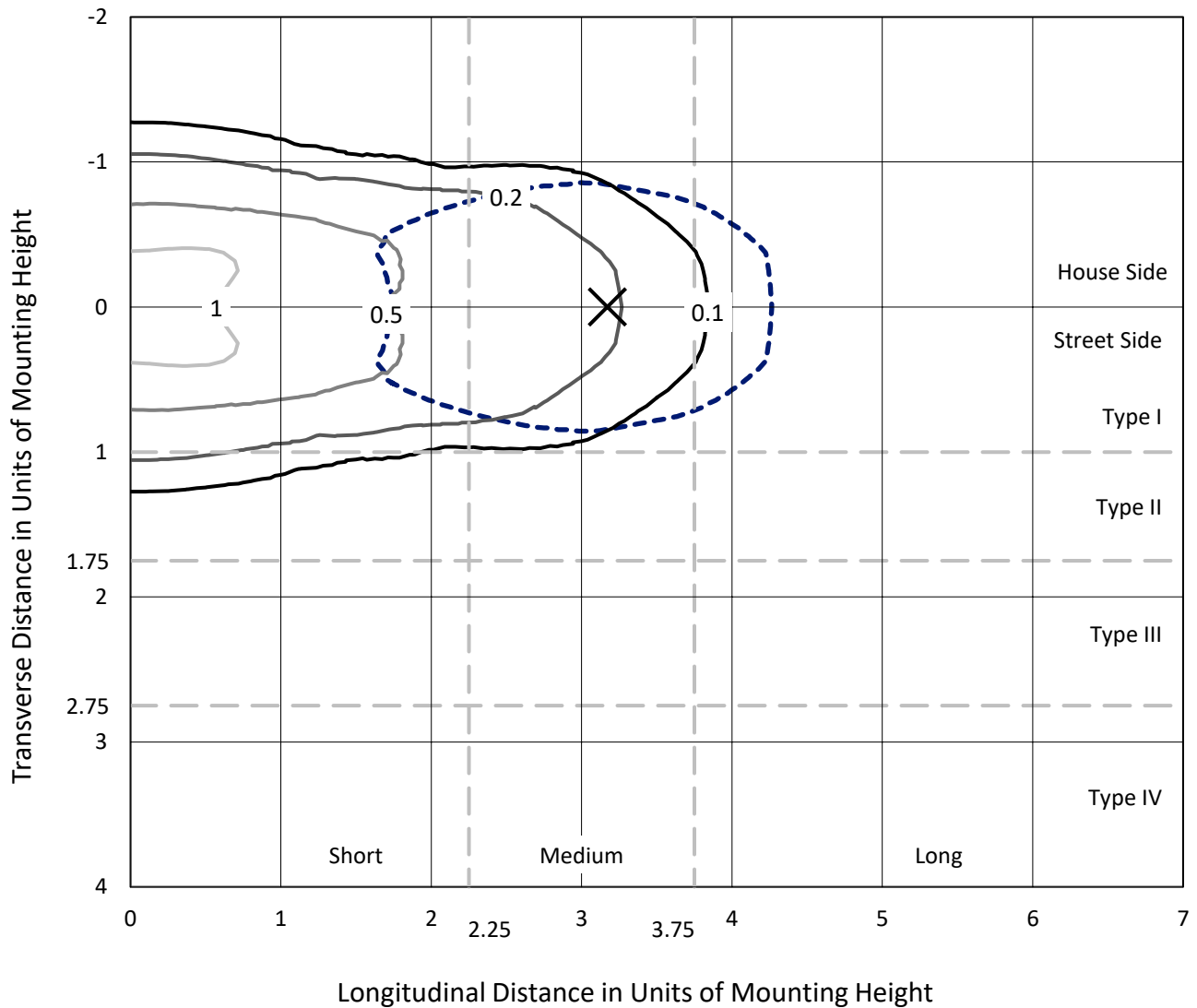
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881555
 CATALOG NUMBER: NVN-SB1A-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

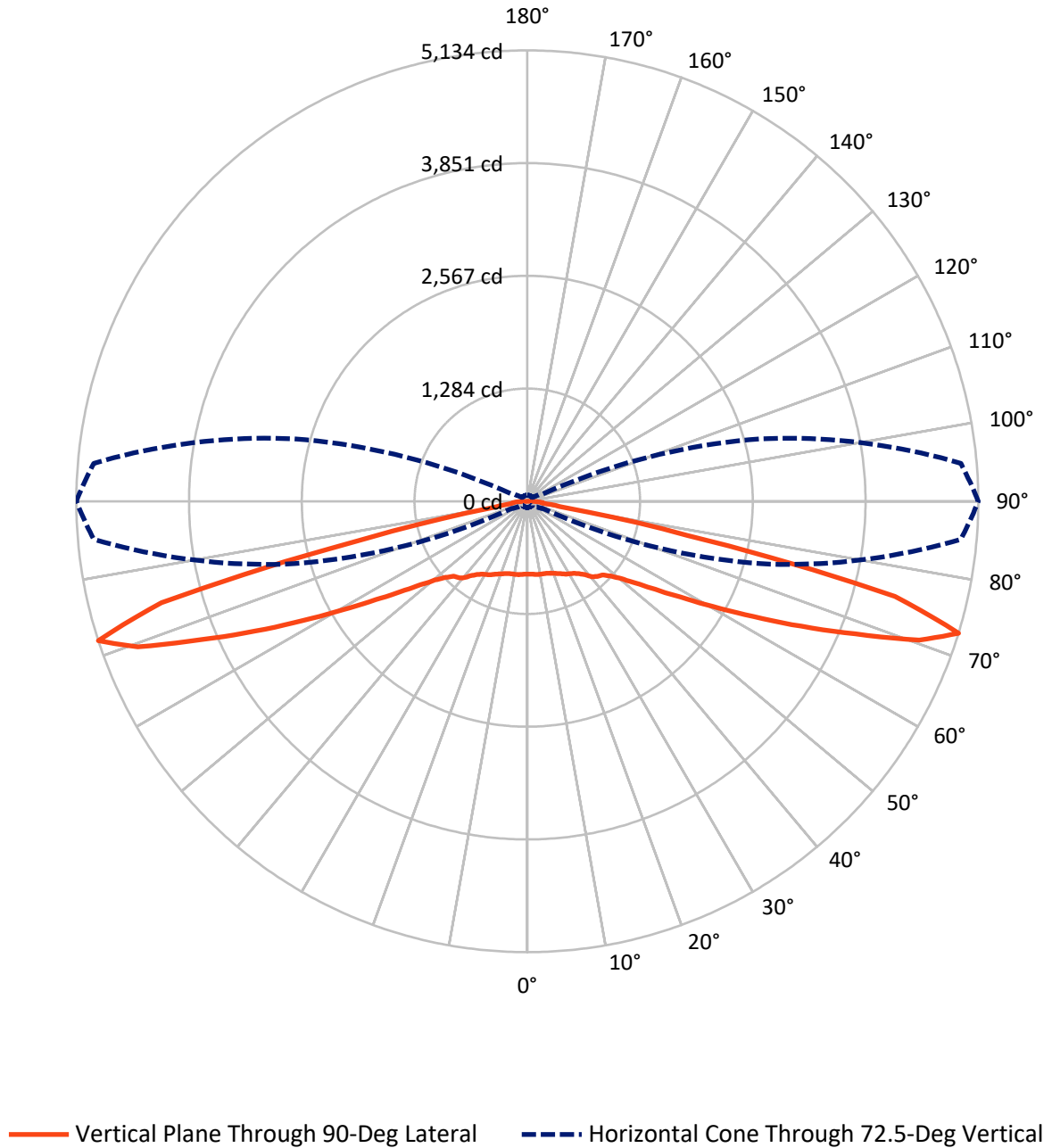
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

REPORT NUMBER: P881555
CATALOG NUMBER: NVN-SB1A-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P881555
 CATALOG NUMBER: NVN-SB1A-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.5	0.0	2220.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2220.5	0.0	2220.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4441.0	0.0	4441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.8
10°-20°	246.0	5.5
20°-30°	410.2	9.2
30°-40°	564.2	12.7
40°-50°	689.0	15.5
50°-60°	796.9	17.9
60°-70°	950.2	21.4
70°-80°	663.2	14.9
80°-90°	40.7	0.9
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°	4441.0	100.0
0°-180°	4441.0	100.0

Coefficient of Utilization



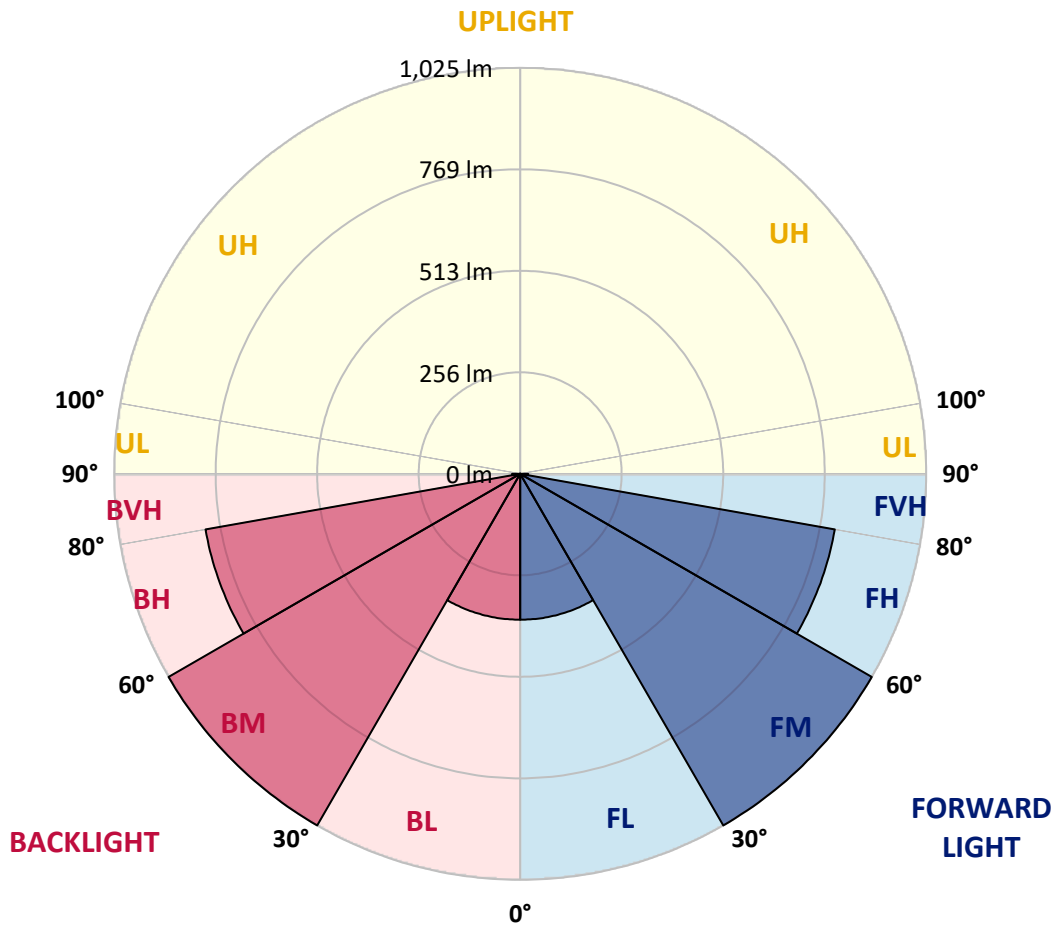
REPORT NUMBER: P881555
 CATALOG NUMBER: NVN-SB1A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.4	8.3			
FM (30°-60°)	1025.1	23.1			
FH (60°-80°)	806.7	18.2			G1/1800
FVH (80°-90°)	20.4	0.5			G1/100
BL (0°-30°)	368.4	8.3	B1/500		
BM (30°-60°)	1025.1	23.1	B2/2500		
BH (60°-80°)	806.7	18.2	B2/1000		G2/1000
BVH (80°-90°)	20.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short



REPORT NUMBER: P881555
 CATALOG NUMBER: NVN-SB1A-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8
2.5°	830.6	831.5	831.5	830.8	832.4	831.0	831.0	830.3	831.0	830.3	830.3
5°	834.8	836.0	836.5	836.2	838.3	837.2	837.2	836.2	836.5	835.7	835.7
7.5°	842.8	844.5	845.4	846.6	849.7	848.3	847.3	844.5	843.3	841.4	841.4
10°	845.4	847.3	850.4	856.5	863.6	863.8	861.0	853.9	848.5	844.2	843.5
12.5°	837.4	840.0	846.4	858.9	874.7	881.1	876.6	864.8	854.2	846.6	845.4
15°	827.3	830.1	839.8	858.6	882.0	896.9	896.4	880.8	863.8	852.0	850.1
17.5°	811.4	814.3	828.2	854.6	887.7	912.2	918.8	902.8	878.9	863.1	860.5
20°	782.9	785.5	804.8	841.9	889.6	928.5	945.7	931.6	901.8	880.4	876.3
22.5°	745.8	749.8	772.5	819.9	885.1	945.5	976.4	966.7	928.5	898.8	893.3
25°	706.2	710.4	736.9	793.0	873.5	957.8	1012.8	1006.6	958.7	921.7	914.1
27.5°	672.0	676.4	705.2	766.4	855.6	962.5	1048.6	1051.7	995.3	946.9	938.9
30°	645.0	649.3	680.0	744.9	832.4	957.8	1080.0	1101.3	1032.6	968.9	957.3
32.5°	615.5	621.0	653.3	718.7	805.1	946.4	1107.4	1154.8	1075.8	992.5	977.8
35°	578.2	583.2	617.2	682.8	769.2	928.3	1130.3	1214.3	1137.6	1028.3	1012.1
37.5°	532.9	537.7	571.4	638.0	733.6	902.8	1147.8	1281.4	1211.3	1080.0	1058.3
40°	487.4	491.9	523.5	587.9	690.8	870.2	1153.9	1347.0	1295.8	1151.1	1127.9
42.5°	445.6	449.6	478.6	538.6	642.9	828.7	1145.9	1404.1	1371.5	1200.6	1170.9
45°	407.1	410.7	436.4	492.3	593.1	778.2	1121.8	1465.5	1461.7	1236.0	1195.9
47.5°	363.2	366.8	393.4	447.5	543.3	718.9	1081.0	1525.9	1587.0	1316.3	1270.0
50°	309.7	312.7	340.1	395.8	491.6	655.9	1024.3	1573.3	1745.1	1437.8	1379.8
52.5°	246.2	249.5	276.1	331.8	430.3	588.2	949.7	1604.2	1927.8	1615.3	1543.8
55°	183.2	185.5	208.6	258.7	354.3	511.0	856.3	1613.0	2135.0	1858.0	1768.5
57.5°	132.9	134.3	149.2	186.5	268.6	414.5	742.8	1590.3	2381.7	2169.0	2056.4
60°	107.6	108.1	112.6	129.1	186.7	305.4	605.6	1512.4	2649.3	2570.0	2428.2
62.5°	97.7	97.7	98.9	103.4	126.3	201.6	439.7	1351.0	2936.3	3076.8	2886.8
65°	90.9	90.9	91.3	93.5	99.6	128.4	277.6	1088.1	3178.3	3670.4	3430.1
67.5°	84.7	85.0	84.7	85.4	89.0	94.9	161.0	751.5	3308.5	4285.4	4026.0
70°	78.4	78.8	77.7	77.7	80.5	80.7	100.8	412.1	3200.4	4800.9	4732.7
72.5°	70.8	71.5	69.6	69.2	71.3	70.3	75.8	197.8	2747.7	4954.8	5134.2
75°	64.2	65.1	60.9	59.7	59.7	59.0	61.6	101.5	1783.4	4041.8	4323.2
77.5°	58.3	60.2	53.3	49.6	48.6	46.5	50.3	62.1	780.0	1897.6	1858.2
80°	48.1	50.7	43.9	39.4	37.8	35.4	39.7	43.4	232.0	440.7	422.0
82.5°	35.9	37.1	31.2	28.1	26.7	25.0	29.7	30.2	75.5	156.0	176.3
85°	22.9	23.4	19.1	16.5	15.8	15.1	18.9	16.5	28.8	114.7	166.6
87.5°	8.0	9.2	7.3	6.6	7.1	5.9	8.7	5.0	8.0	81.0	100.3
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)