

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: P966783

Luminaire Tested: **NVN-SB4C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966783
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-SB4C-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28033.8 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

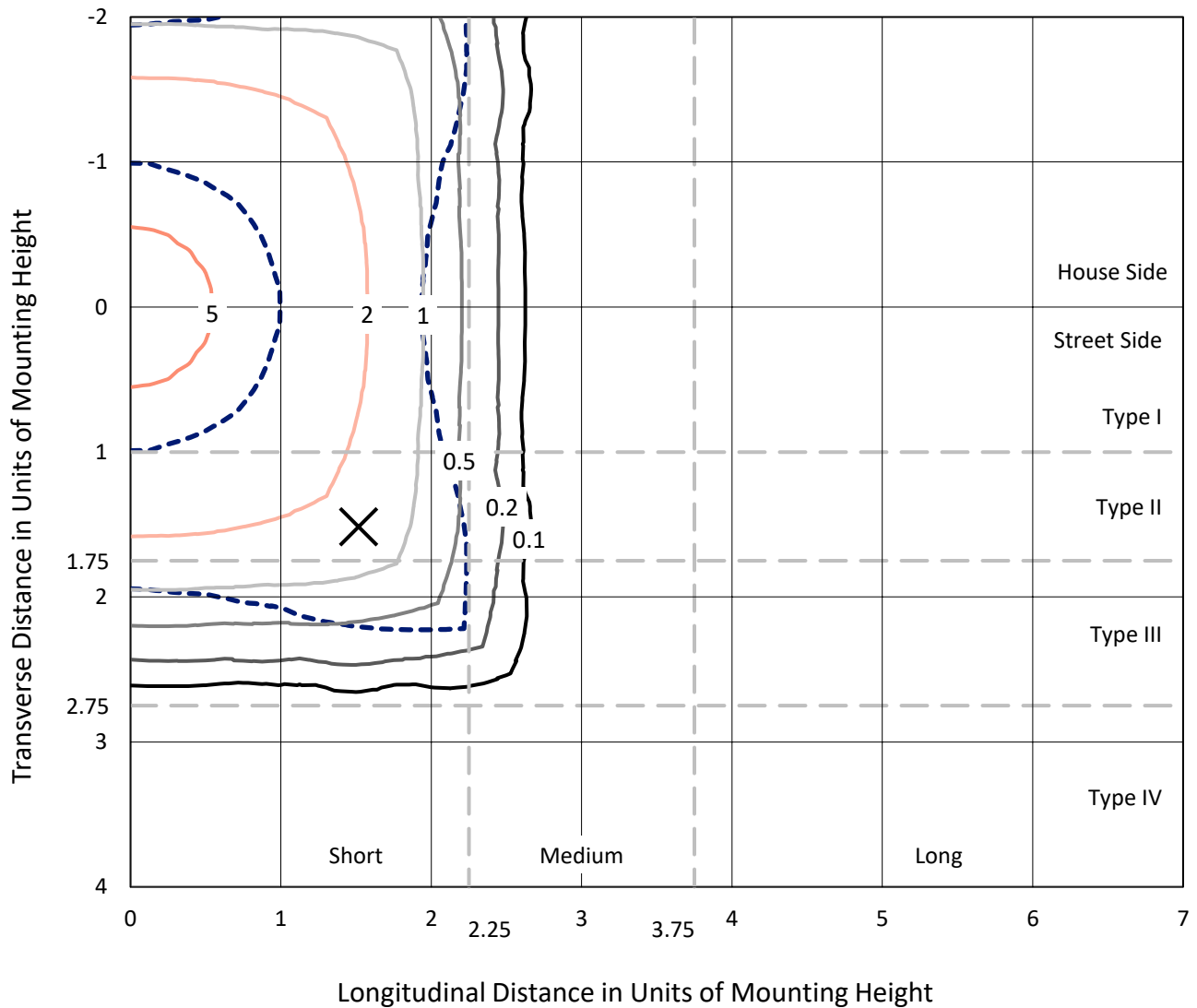
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966783
 CATALOG NUMBER: NVN-SB4C-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

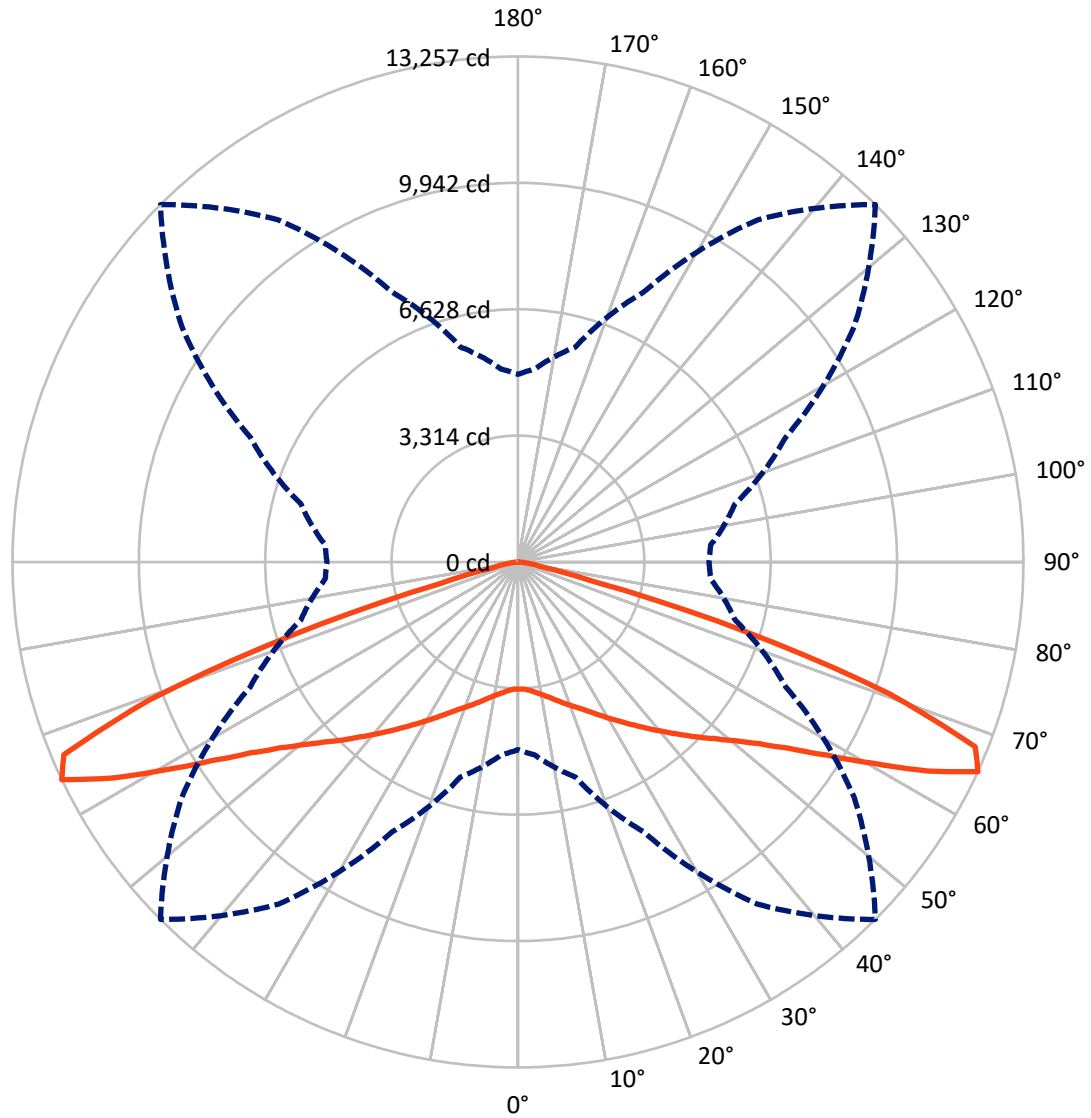
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P966783
CATALOG NUMBER: NVN-SB4C-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P966783
 CATALOG NUMBER: NVN-SB4C-827-U-5NQ

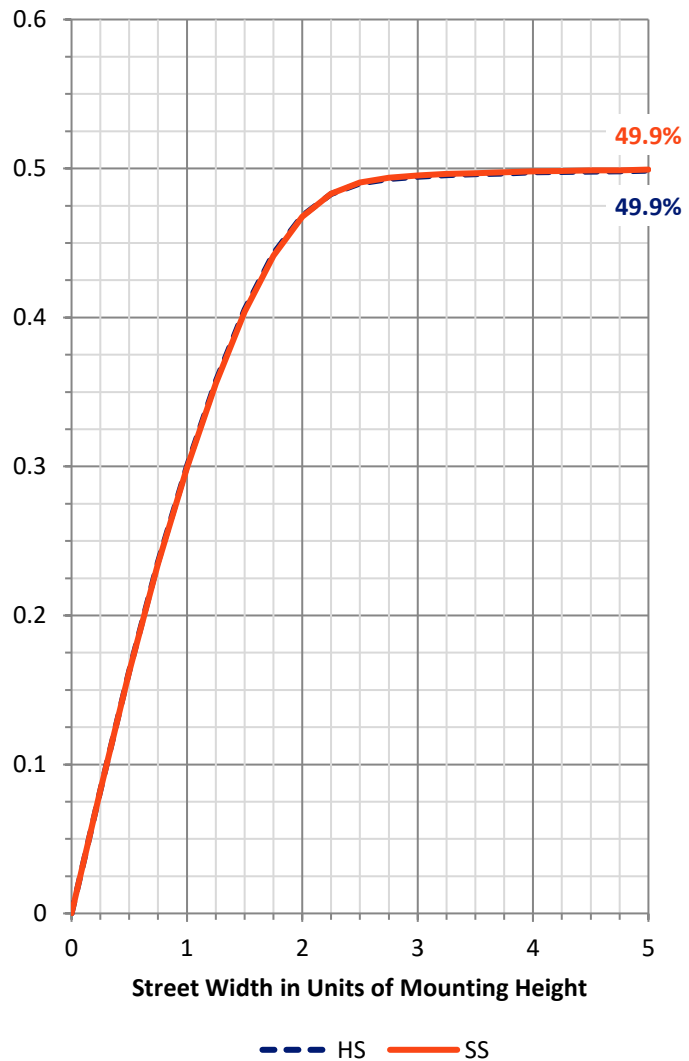
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14016.9	0.0	14016.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14016.9	0.0	14016.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28033.8	0.0	28033.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	1.2
10°-20°	1074.4	3.8
20°-30°	2028.6	7.2
30°-40°	3321.7	11.8
40°-50°	5150.4	18.4
50°-60°	7608.2	27.1
60°-70°	7242.3	25.8
70°-80°	1168.7	4.2
80°-90°	110.2	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°	28033.8	100.0
0°-180°	28033.8	100.0



REPORT NUMBER: P966783

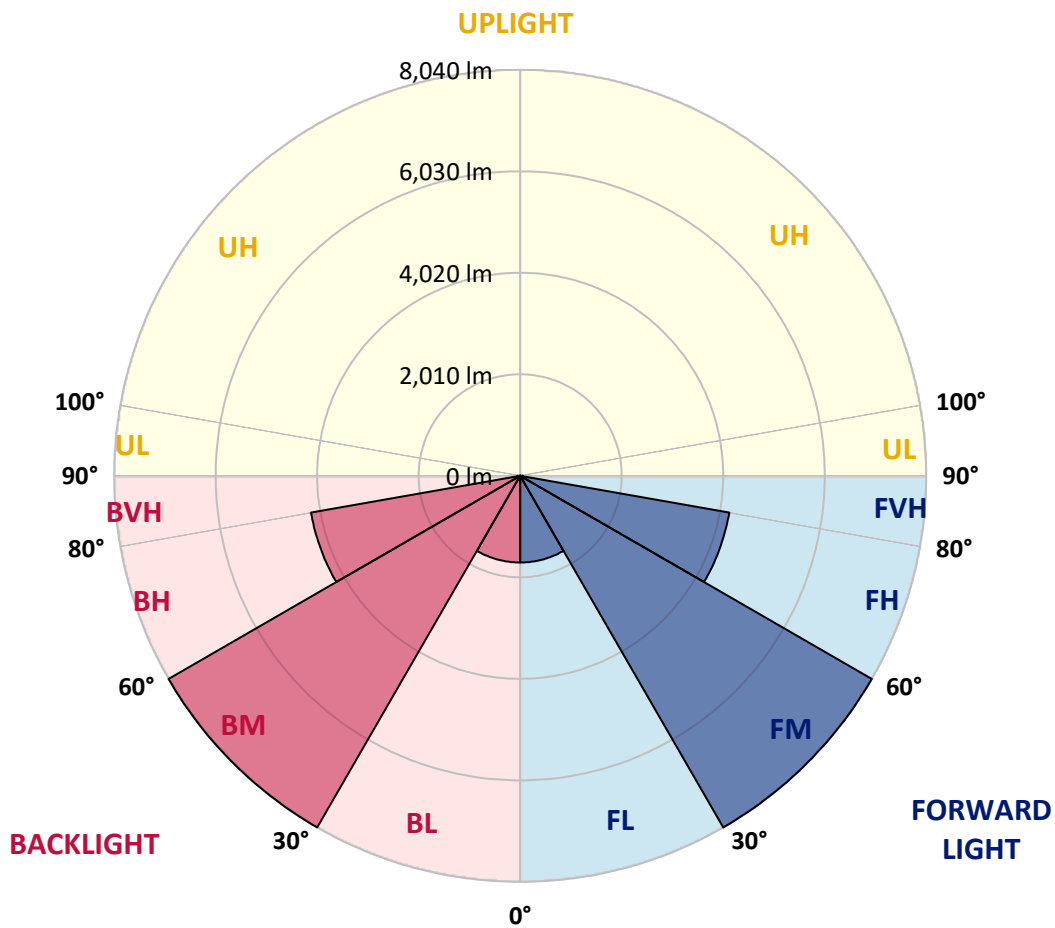
CATALOG NUMBER: NVN-SB4C-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.1	6.1			
FM (30°-60°)	8040.2	28.7			
FH (60°-80°)	4205.5	15.0			G2/5000
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	1716.1	6.1	B3/2500		
BM (30°-60°)	8040.2	28.7	B4/8500		
BH (60°-80°)	4205.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	55.1	0.2			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: P966783

CATALOG NUMBER: NVN-SB4C-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3
2.5°	3358.8	3347.5	3356.0	3349.0	3343.3	3337.7	3340.5	3350.3	3354.6	3356.0	3356.0
5°	3403.8	3394.0	3398.2	3398.2	3388.3	3385.6	3386.9	3394.0	3402.4	3402.4	3402.4
7.5°	3476.9	3467.1	3476.9	3471.4	3462.9	3460.1	3458.7	3464.3	3476.9	3476.9	3472.7
10°	3565.6	3554.3	3559.9	3557.2	3547.3	3543.0	3541.7	3550.1	3561.4	3559.9	3557.2
12.5°	3662.6	3649.9	3657.0	3648.6	3645.7	3641.5	3641.5	3640.1	3647.2	3641.5	3644.3
15°	3770.9	3762.5	3765.3	3759.7	3763.9	3761.0	3749.9	3744.2	3747.0	3738.6	3740.0
17.5°	3898.9	3879.2	3889.1	3886.3	3886.3	3891.9	3873.6	3866.6	3872.1	3863.7	3870.8
20°	4046.6	4026.9	4031.1	4025.5	4018.5	4024.0	4001.6	4007.2	4011.4	4005.8	4018.5
22.5°	4208.3	4183.0	4181.6	4184.5	4169.0	4170.4	4154.9	4169.0	4177.4	4161.9	4177.4
25°	4374.3	4347.6	4365.9	4358.8	4339.1	4343.3	4332.2	4346.2	4353.2	4333.5	4356.0
27.5°	4550.2	4531.8	4548.7	4552.9	4529.1	4545.9	4529.1	4541.7	4548.7	4519.2	4541.7
30°	4755.5	4737.2	4752.7	4763.9	4735.8	4762.6	4748.4	4756.9	4758.3	4723.1	4744.2
32.5°	4979.1	4951.0	4990.4	4996.1	4965.1	4997.4	4979.1	4990.4	4997.4	4949.6	4981.9
35°	5252.0	5216.8	5261.8	5254.8	5228.1	5254.8	5238.0	5254.8	5271.7	5214.0	5249.2
37.5°	5546.0	5509.4	5557.2	5544.5	5519.2	5537.6	5527.7	5538.9	5565.6	5503.7	5541.8
40°	5869.5	5824.5	5889.1	5866.7	5842.7	5839.9	5845.6	5852.5	5887.7	5818.8	5841.4
42.5°	6215.5	6167.6	6264.7	6229.5	6195.8	6173.3	6191.5	6205.7	6239.4	6162.0	6202.8
45°	6610.7	6555.9	6682.5	6640.3	6586.8	6540.4	6569.9	6591.1	6640.3	6547.4	6595.3
47.5°	7046.8	6984.9	7119.9	7107.2	7020.0	6918.7	6986.3	7046.8	7083.3	6970.8	7008.7
50°	7472.9	7425.1	7602.3	7617.8	7510.9	7368.8	7463.0	7554.5	7564.3	7416.7	7434.9
52.5°	7872.4	7824.5	8081.9	8179.0	8083.4	7914.5	8014.5	8107.2	8032.7	7841.5	7847.1
55°	8191.7	8152.2	8480.0	8730.3	8762.7	8623.4	8682.6	8679.7	8434.9	8141.1	8150.9
57.5°	8269.0	8263.3	8676.9	9207.2	9544.7	9561.6	9444.9	9146.7	8619.2	8224.0	8198.7
60°	7917.4	7952.6	8520.8	9456.1	10356.3	10730.4	10225.5	9374.5	8409.6	7861.1	7796.5
62.5°	6865.2	6958.1	7643.1	9152.3	11011.8	12075.1	10851.4	9028.5	7548.8	6833.0	6790.7
65°	4920.1	5081.8	5838.5	7810.5	10952.6	13256.5	10761.4	7747.2	5894.8	5069.1	5008.7
67.5°	2232.1	2396.8	3039.5	5347.6	9520.8	12935.9	9498.4	5403.9	3191.4	2405.2	2370.0
70°	808.7	836.9	1043.7	2140.7	6084.7	10307.1	6344.9	2156.2	1109.8	891.7	880.5
72.5°	489.4	493.7	537.3	766.6	2114.1	6257.6	2204.1	791.9	548.6	486.7	495.1
75°	310.9	308.0	382.5	468.4	749.7	2111.2	786.3	468.4	381.2	347.4	350.2
77.5°	223.7	230.6	274.3	350.2	472.6	716.0	464.1	334.8	274.3	225.1	229.3
80°	167.4	171.6	199.8	272.9	331.9	445.9	295.4	247.5	206.7	140.6	144.8
82.5°	121.0	121.0	130.8	198.3	202.5	240.6	160.3	174.5	136.4	99.8	99.8
85°	71.8	70.3	81.6	118.2	105.5	88.7	73.2	106.9	85.8	61.9	60.5
87.5°	25.3	26.8	25.3	33.7	28.1	23.9	22.5	29.5	23.9	21.1	19.7
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)