

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: P971003

Luminaire Tested: **NVN-SB6C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41682.6 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

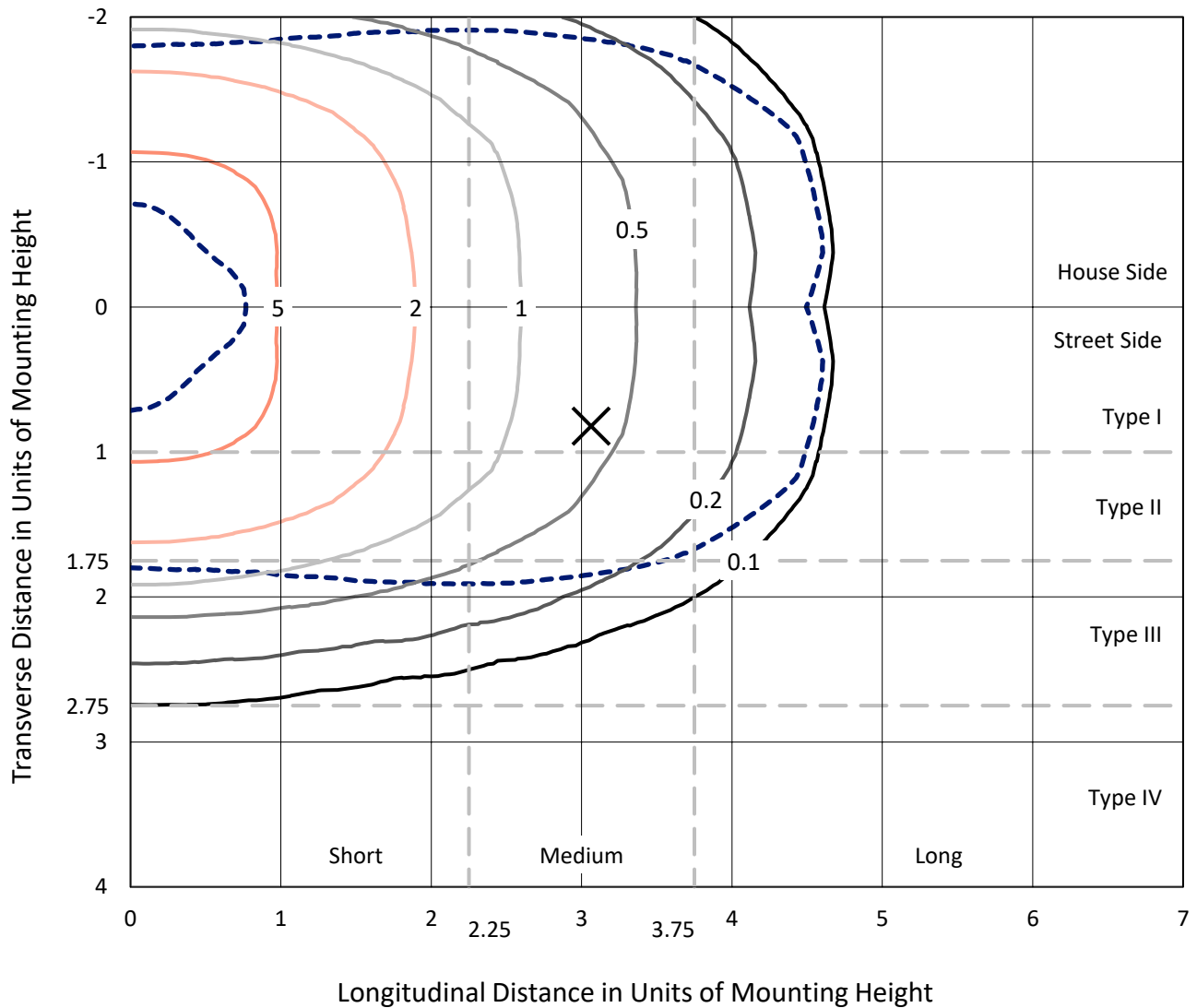
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

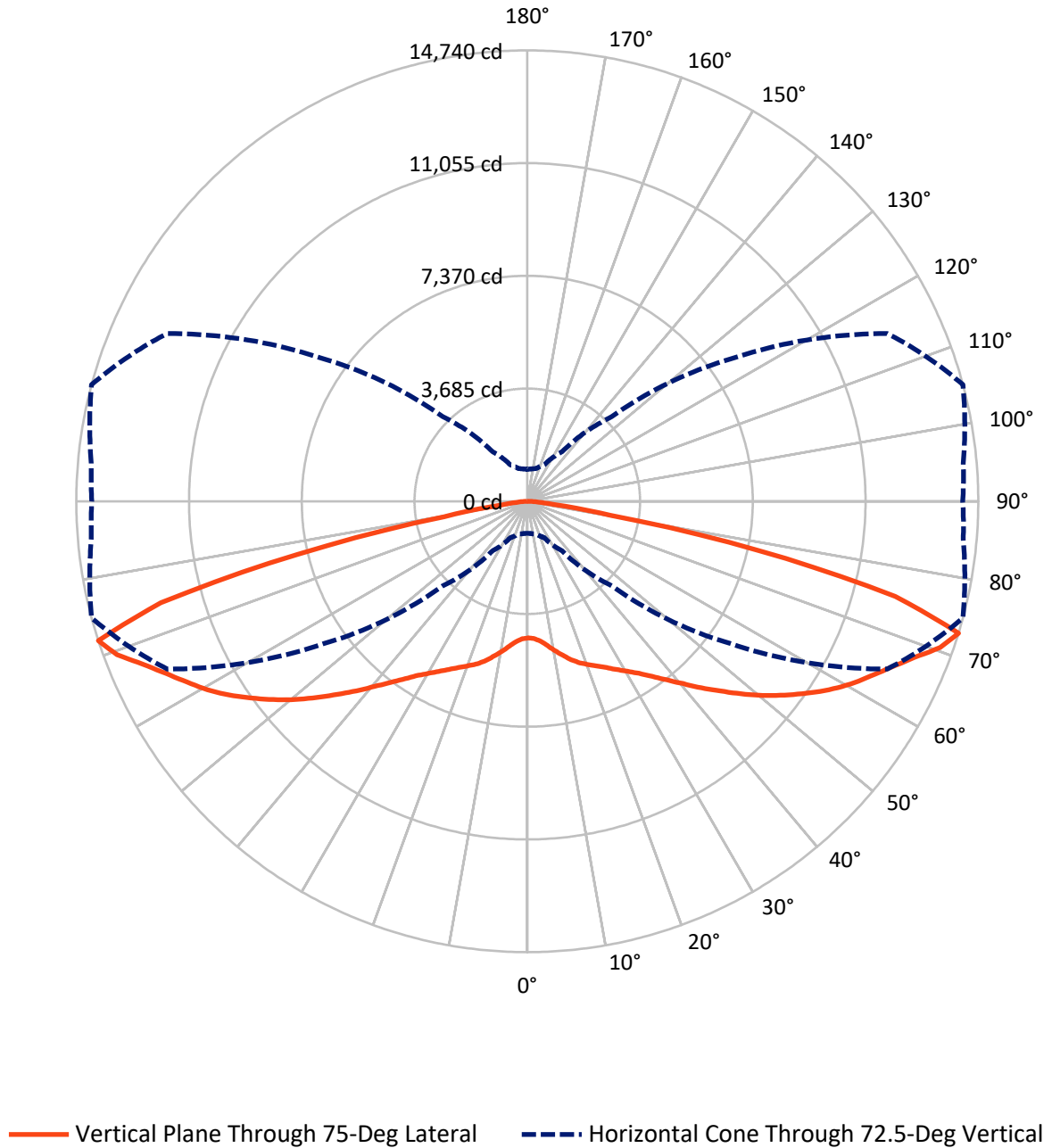
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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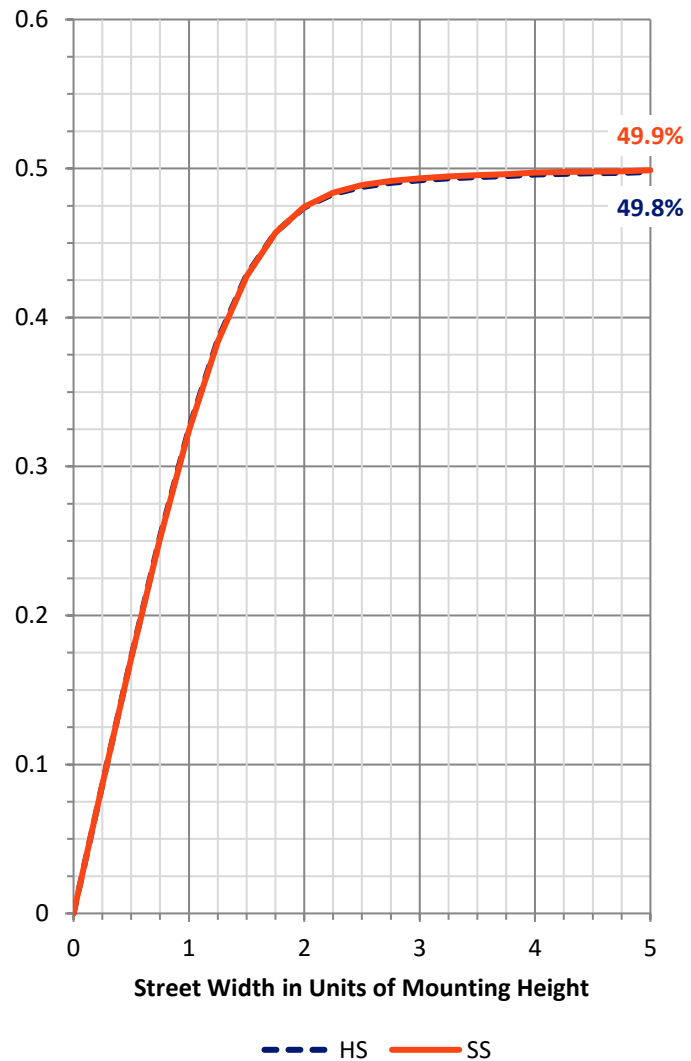
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20841.3	0.0	20841.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20841.3	0.0	20841.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	41682.6	0.0	41682.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	1.0
10°-20°	1442.6	3.5
20°-30°	2787.5	6.7
30°-40°	4706.8	11.3
40°-50°	7464.5	17.9
50°-60°	9994.1	24.0
60°-70°	9511.1	22.8
70°-80°	4963.1	11.9
80°-90°	375.7	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°	41682.6	100.0
0°-180°	41682.6	100.0



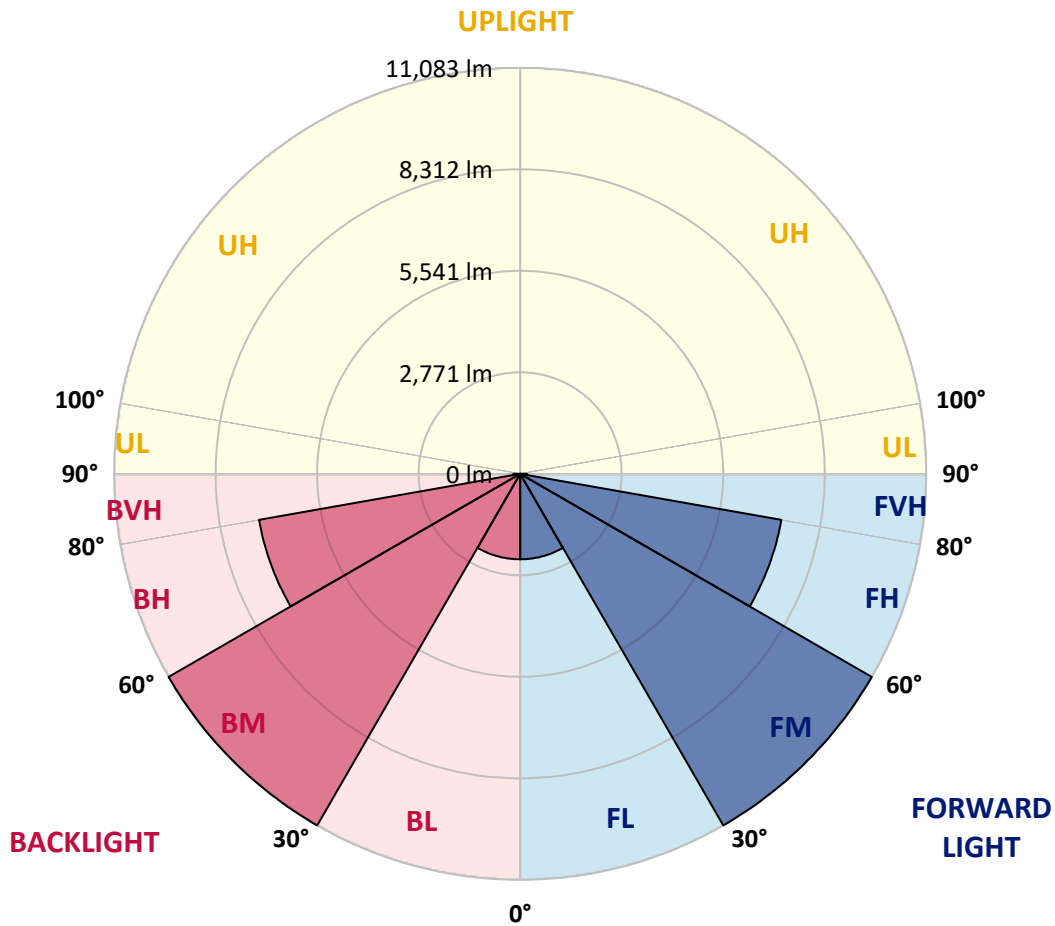
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.7	5.6			
FM (30°-60°)	11082.7	26.6			
FH (60°-80°)	7237.1	17.4			G3/7500
FVH (80°-90°)	187.8	0.5			G2/225
BL (0°-30°)	2333.7	5.6	B3/2500		
BM (30°-60°)	11082.7	26.6	B5		
BH (60°-80°)	7237.1	17.4	B5		G5
BVH (80°-90°)	187.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0	4465.0
2.5°	4465.0	4460.7	4465.0	4469.2	4467.1	4467.1	4477.7	4484.1	4496.9	4494.7	4492.6
5°	4435.2	4433.0	4450.0	4469.2	4484.1	4509.7	4541.6	4564.9	4594.8	4601.1	4601.1
7.5°	4420.3	4413.9	4443.7	4477.7	4524.6	4588.4	4650.1	4714.0	4765.0	4782.0	4786.3
10°	4430.9	4433.0	4473.5	4537.4	4611.8	4701.2	4788.5	4896.9	4969.3	4986.3	5003.4
12.5°	4479.9	4475.6	4543.7	4645.8	4748.0	4860.8	4962.9	5082.2	5160.9	5201.4	5218.4
15°	4569.2	4560.7	4656.5	4807.6	4956.6	5088.5	5171.5	5284.3	5375.8	5426.9	5446.0
17.5°	4675.6	4679.9	4805.5	5001.3	5197.1	5346.0	5424.8	5482.2	5552.4	5597.1	5618.4
20°	4862.9	4871.4	5011.9	5243.9	5467.3	5637.6	5701.5	5680.1	5699.3	5733.3	5758.9
22.5°	5114.0	5118.3	5275.8	5526.9	5761.0	5948.3	5990.9	5903.6	5850.4	5873.9	5890.9
25°	5405.6	5433.3	5590.8	5848.2	6088.8	6267.6	6286.7	6154.7	6022.8	6029.2	6039.8
27.5°	5761.0	5786.5	5946.2	6201.6	6446.3	6601.7	6599.6	6422.9	6229.2	6180.2	6195.2
30°	6146.2	6173.9	6337.8	6601.7	6829.4	6965.6	6935.8	6725.1	6448.5	6356.9	6367.6
32.5°	6603.8	6620.8	6786.8	7050.7	7261.4	7370.0	7308.2	7048.6	6703.8	6599.6	6625.1
35°	7157.2	7182.7	7306.1	7555.1	7740.3	7829.7	7725.3	7418.8	7031.6	6914.5	6931.6
37.5°	7789.2	7772.2	7912.6	8134.0	8287.2	8342.6	8199.9	7836.0	7406.1	7267.8	7293.3
40°	8449.0	8440.5	8593.7	8806.5	8889.5	8923.5	8712.8	8314.9	7838.2	7689.1	7738.1
42.5°	9047.0	9040.6	9247.0	9483.2	9583.2	9545.0	9278.9	8823.5	8338.3	8168.0	8210.6
45°	9525.8	9517.3	9770.5	10102.5	10298.4	10234.5	9877.0	9385.3	8844.8	8668.1	8708.6
47.5°	9894.0	9898.2	10170.7	10581.4	10924.0	10947.4	10487.8	9957.9	9402.3	9202.3	9261.9
50°	10160.0	10172.8	10464.3	10919.7	11388.0	11594.4	11111.3	10545.2	9979.1	9753.5	9821.7
52.5°	10226.0	10249.4	10600.6	11134.7	11685.9	12079.6	11745.5	11109.2	10526.0	10311.1	10366.4
55°	9874.8	9921.7	10366.4	11117.7	11869.0	12398.9	12303.1	11681.7	11077.3	10856.0	10917.7
57.5°	9068.3	9134.2	9653.6	10634.6	11828.5	12618.1	12735.1	12230.7	11628.4	11415.6	11464.6
60°	7938.2	8016.9	8514.9	9585.4	11258.2	12698.9	13039.4	12764.9	12135.0	11928.5	11973.2
62.5°	6233.5	6335.6	6931.6	8187.2	10053.6	12322.2	13299.1	13248.0	12590.4	12332.9	12362.7
65°	3998.8	4107.4	4735.2	6218.6	8446.8	11168.8	13379.9	13718.4	13071.4	12711.7	12756.4
67.5°	2411.2	2460.2	2770.9	3769.0	6173.9	9430.0	12694.7	14239.8	13633.2	13186.3	13220.3
70°	1542.9	1570.6	1755.7	2213.3	3490.2	6880.4	10996.4	14337.7	14314.2	13673.7	13669.4
72.5°	1047.0	1055.5	1104.5	1311.0	1975.0	3909.5	8110.5	12979.9	14739.9	14301.5	14233.4
75°	766.2	812.9	891.7	927.9	1121.6	1953.6	4648.0	9119.3	12422.3	12613.9	12149.8
77.5°	570.3	572.5	681.0	723.5	800.2	1040.7	1966.5	5090.7	7712.6	8097.8	7223.1
80°	483.1	457.6	455.4	583.1	602.3	649.1	878.9	1757.9	2762.4	1674.8	1266.3
82.5°	402.2	374.5	338.4	455.4	410.7	398.0	381.0	715.0	878.9	432.0	368.2
85°	281.0	268.1	255.4	298.0	234.1	200.1	183.1	334.2	370.3	183.1	161.7
87.5°	121.3	125.6	127.7	131.9	97.9	70.2	70.2	93.7	93.7	72.4	53.2
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)