

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: P965206

Luminaire Tested: **NVN-SB3D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965206
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-SB3D-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28022.5 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

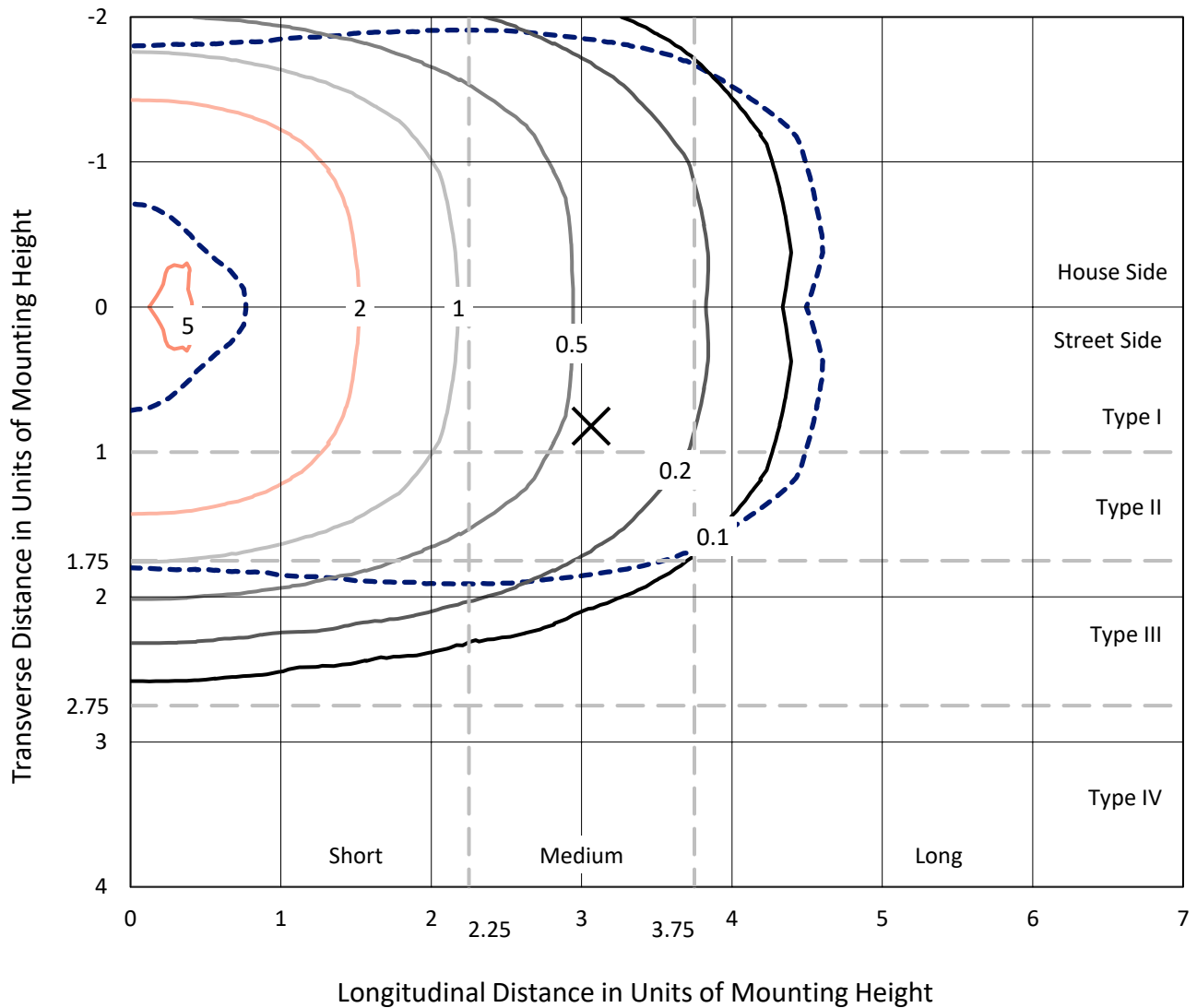
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

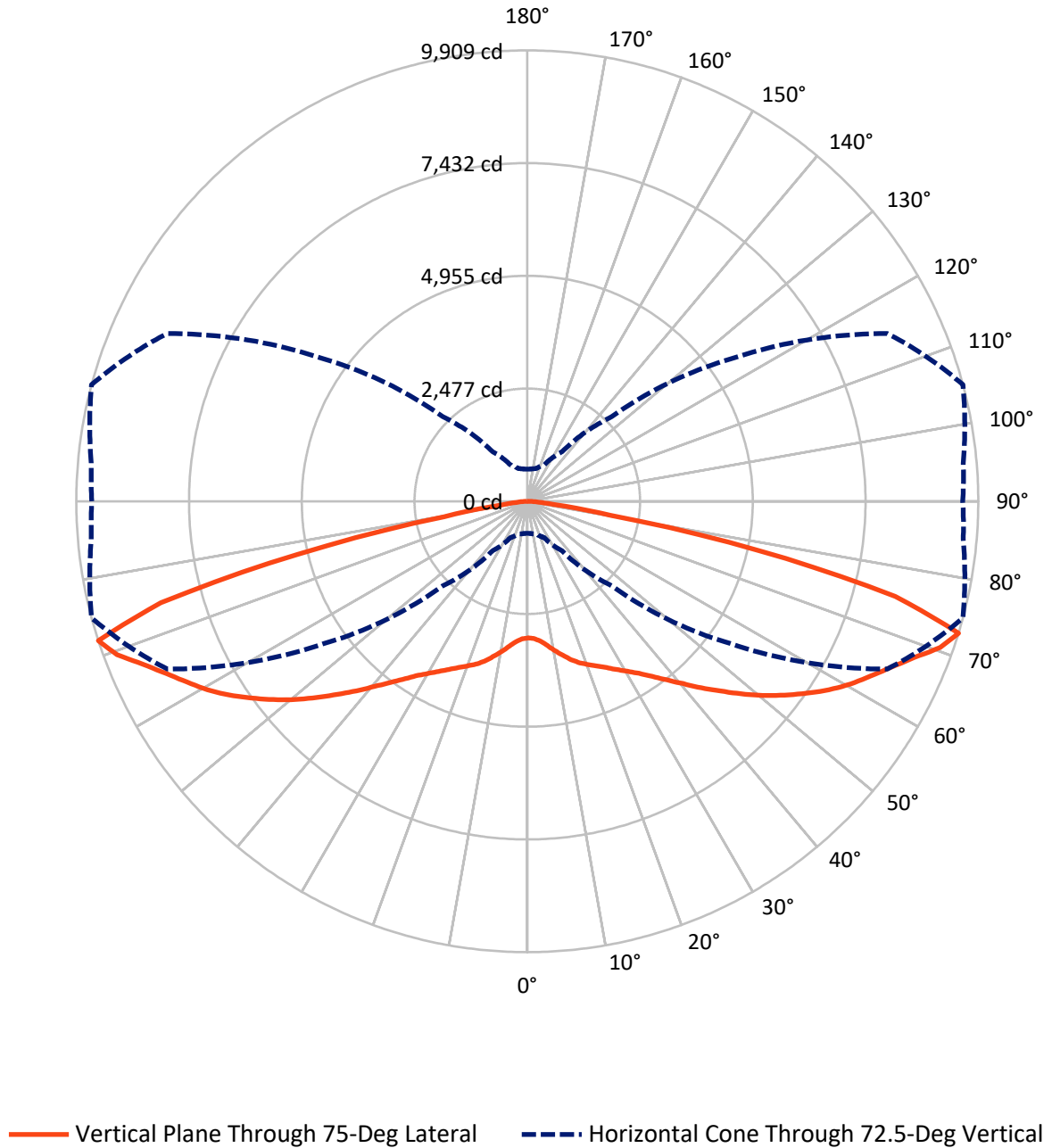
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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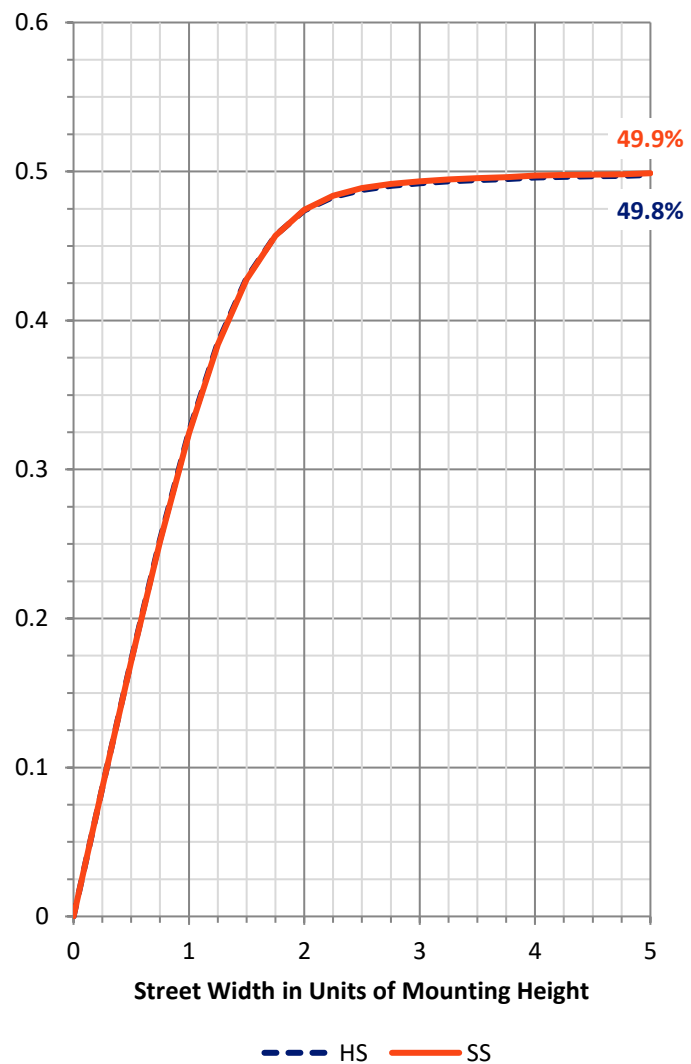
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14011.2	0.0	14011.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14011.2	0.0	14011.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28022.5	0.0	28022.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.0
10°-20°	969.8	3.5
20°-30°	1874.0	6.7
30°-40°	3164.3	11.3
40°-50°	5018.2	17.9
50°-60°	6718.8	24.0
60°-70°	6394.2	22.8
70°-80°	3336.6	11.9
80°-90°	252.6	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°	28022.5	100.0
0°-180°	28022.5	100.0

Coefficient of Utilization



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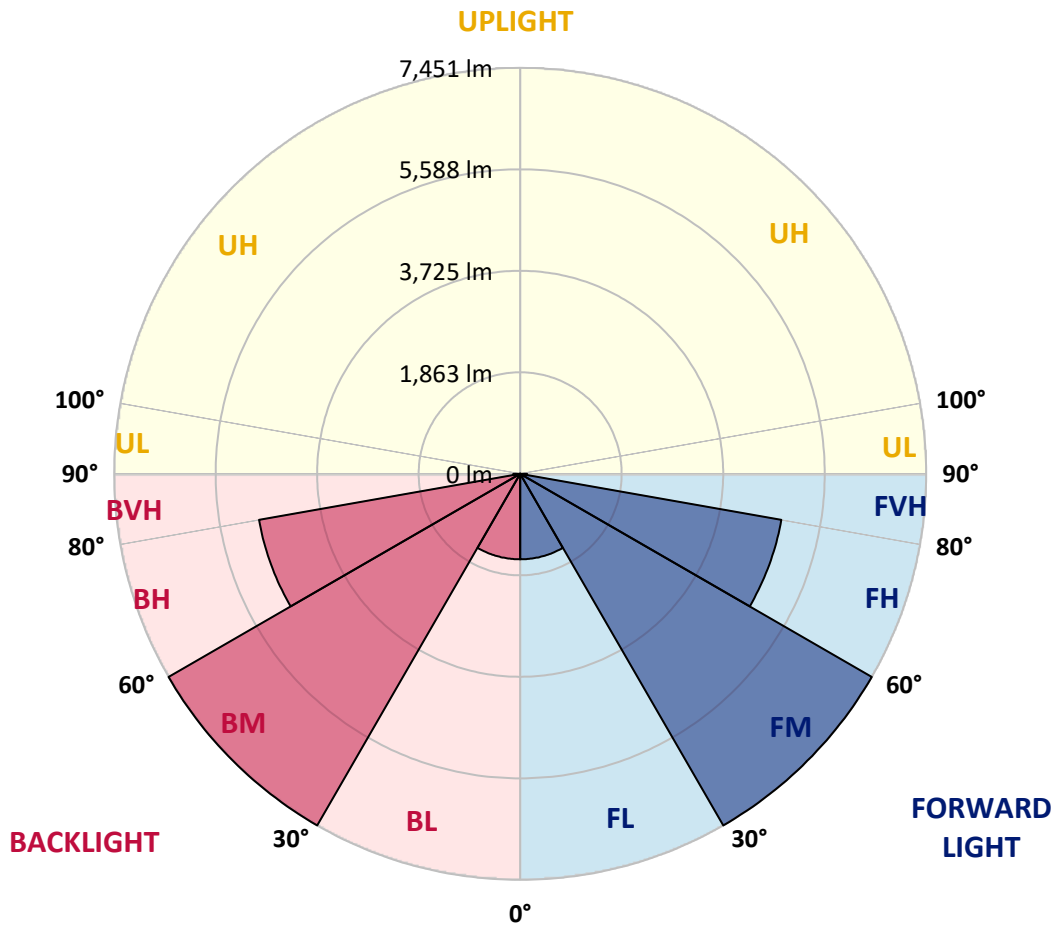
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.9	5.6			
FM (30°-60°)	7450.7	26.6			
FH (60°-80°)	4865.4	17.4			G2/5000
FVH (80°-90°)	126.3	0.5			G2/225
BL (0°-30°)	1568.9	5.6	B3/2500		
BM (30°-60°)	7450.7	26.6	B4/8500		
BH (60°-80°)	4865.4	17.4	B4/5000		G4/5000
BVH (80°-90°)	126.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7	3001.7
2.5°	3001.7	2998.8	3001.7	3004.6	3003.1	3003.1	3010.3	3014.6	3023.1	3021.7	3020.3
5°	2981.7	2980.3	2991.7	3004.6	3014.6	3031.7	3053.2	3069.0	3088.9	3093.2	3093.2
7.5°	2971.7	2967.4	2987.4	3010.3	3041.8	3084.7	3126.1	3169.1	3203.4	3214.9	3217.8
10°	2978.9	2980.3	3007.5	3050.4	3100.4	3160.5	3219.2	3292.2	3340.8	3352.3	3363.6
12.5°	3011.8	3008.9	3054.6	3123.3	3192.0	3267.8	3336.5	3416.6	3469.5	3496.8	3508.2
15°	3071.8	3066.1	3130.5	3232.0	3332.2	3420.9	3476.7	3552.5	3614.0	3648.4	3661.3
17.5°	3143.4	3146.2	3230.6	3362.3	3493.9	3594.1	3647.0	3685.6	3732.8	3762.9	3777.1
20°	3269.2	3275.0	3369.4	3525.4	3675.5	3790.0	3833.0	3818.6	3831.6	3854.4	3871.6
22.5°	3438.1	3440.9	3546.8	3715.6	3873.1	3998.9	4027.5	3968.9	3933.1	3948.8	3960.3
25°	3634.1	3652.7	3758.6	3931.7	4093.3	4213.6	4226.4	4137.7	4049.1	4053.3	4060.4
27.5°	3873.1	3890.2	3997.5	4169.2	4333.7	4438.1	4436.7	4318.0	4187.8	4154.9	4164.9
30°	4132.0	4150.6	4260.7	4438.1	4591.3	4682.8	4662.8	4521.2	4335.1	4273.6	4280.8
32.5°	4439.6	4451.1	4562.7	4740.1	4881.7	4954.6	4913.2	4738.7	4506.8	4436.7	4453.9
35°	4811.6	4828.8	4911.8	5079.2	5203.6	5263.7	5193.6	4987.5	4727.2	4648.5	4660.0
37.5°	5236.5	5225.0	5319.5	5468.3	5571.3	5608.5	5512.7	5268.0	4979.0	4886.0	4903.2
40°	5680.0	5674.3	5777.3	5920.4	5976.3	5999.1	5857.5	5589.9	5269.4	5169.3	5202.2
42.5°	6082.1	6077.8	6216.6	6375.4	6442.6	6416.9	6238.0	5931.9	5605.6	5491.2	5519.8
45°	6404.0	6398.3	6568.6	6791.8	6923.4	6880.4	6640.1	6309.6	5946.2	5827.4	5854.6
47.5°	6651.5	6654.4	6837.6	7113.7	7344.0	7359.8	7050.8	6694.5	6321.1	6186.6	6226.6
50°	6830.4	6839.0	7035.0	7341.2	7655.9	7794.7	7469.9	7089.3	6708.7	6557.1	6602.9
52.5°	6874.8	6890.5	7126.5	7485.7	7856.2	8121.0	7896.3	7468.5	7076.5	6932.0	6969.2
55°	6638.7	6670.2	6969.2	7474.2	7979.3	8335.5	8271.1	7853.3	7447.0	7298.2	7339.7
57.5°	6096.4	6140.8	6489.9	7149.5	7952.1	8482.9	8561.6	8222.6	7817.6	7674.5	7707.5
60°	5336.7	5389.7	5724.4	6444.1	7568.7	8537.2	8766.2	8581.6	8158.1	8019.3	8049.4
62.5°	4190.6	4259.3	4660.0	5504.0	6758.8	8284.0	8940.8	8906.4	8464.3	8291.2	8311.2
65°	2688.4	2761.4	3183.4	4180.7	5678.6	7508.5	8995.1	9222.6	8787.6	8545.8	8575.9
67.5°	1621.0	1653.9	1862.8	2533.9	4150.6	6339.6	8534.5	9573.1	9165.3	8864.9	8887.8
70°	1037.3	1055.9	1180.4	1488.0	2346.4	4625.6	7392.7	9639.0	9623.2	9192.5	9189.7
72.5°	704.0	709.6	742.5	881.3	1327.8	2628.3	5452.6	8726.1	9909.4	9614.6	9568.9
75°	515.1	546.5	599.5	623.8	754.0	1313.4	3124.7	6130.7	8351.3	8480.0	8168.1
77.5°	383.5	384.9	457.9	486.5	537.9	699.7	1322.0	3422.4	5185.1	5444.0	4855.9
80°	324.8	307.6	306.2	392.1	404.9	436.3	590.9	1181.8	1857.1	1126.0	851.3
82.5°	270.4	251.8	227.4	306.2	276.1	267.5	256.1	480.7	590.9	290.5	247.5
85°	188.9	180.3	171.7	200.3	157.3	134.5	123.0	224.6	249.0	123.0	108.8
87.5°	81.6	84.5	85.9	88.7	65.8	47.3	47.3	62.9	62.9	48.7	35.8
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)