

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: P968363

Luminaire Tested: **NVN-SB5B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26551.6 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

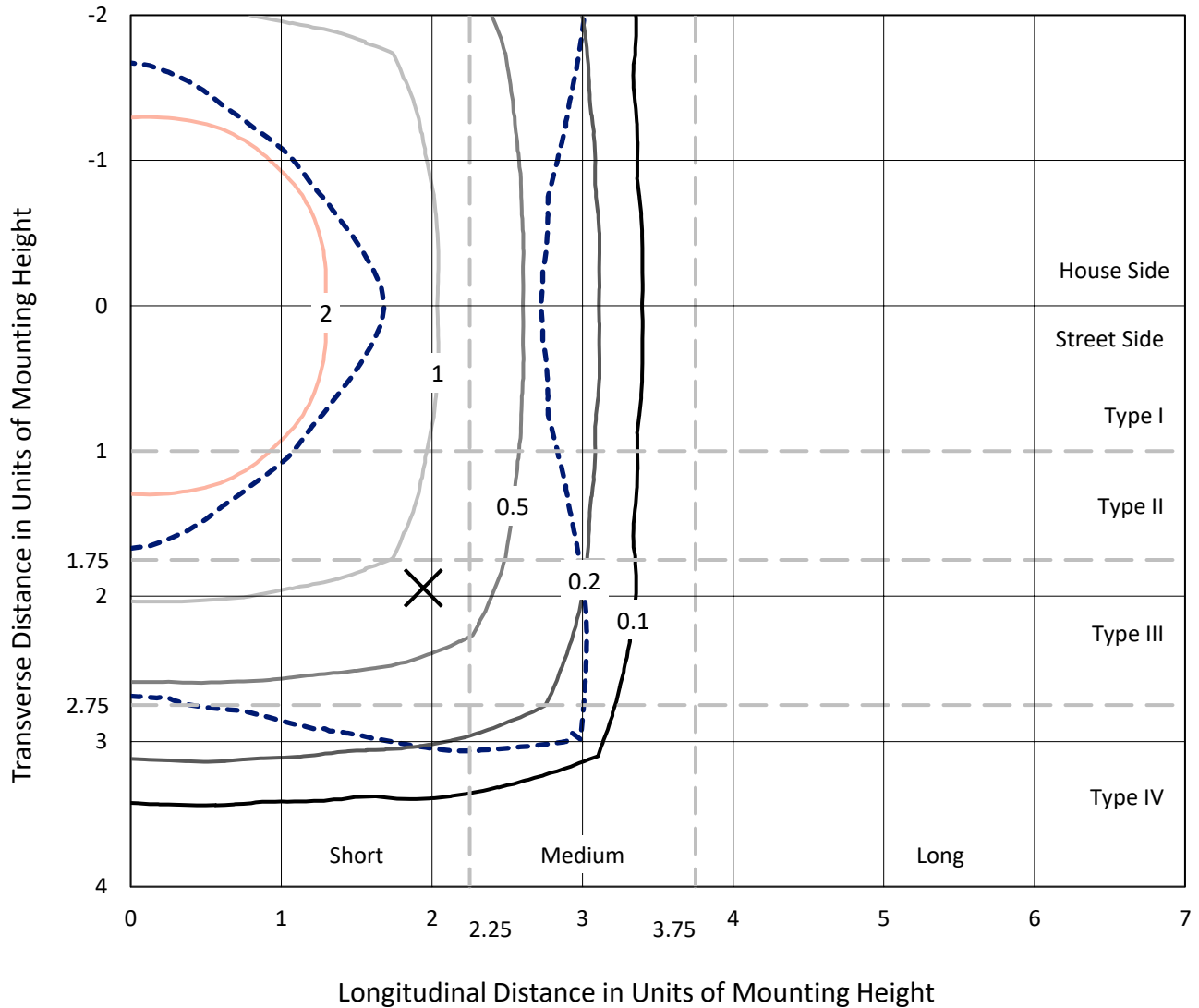
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

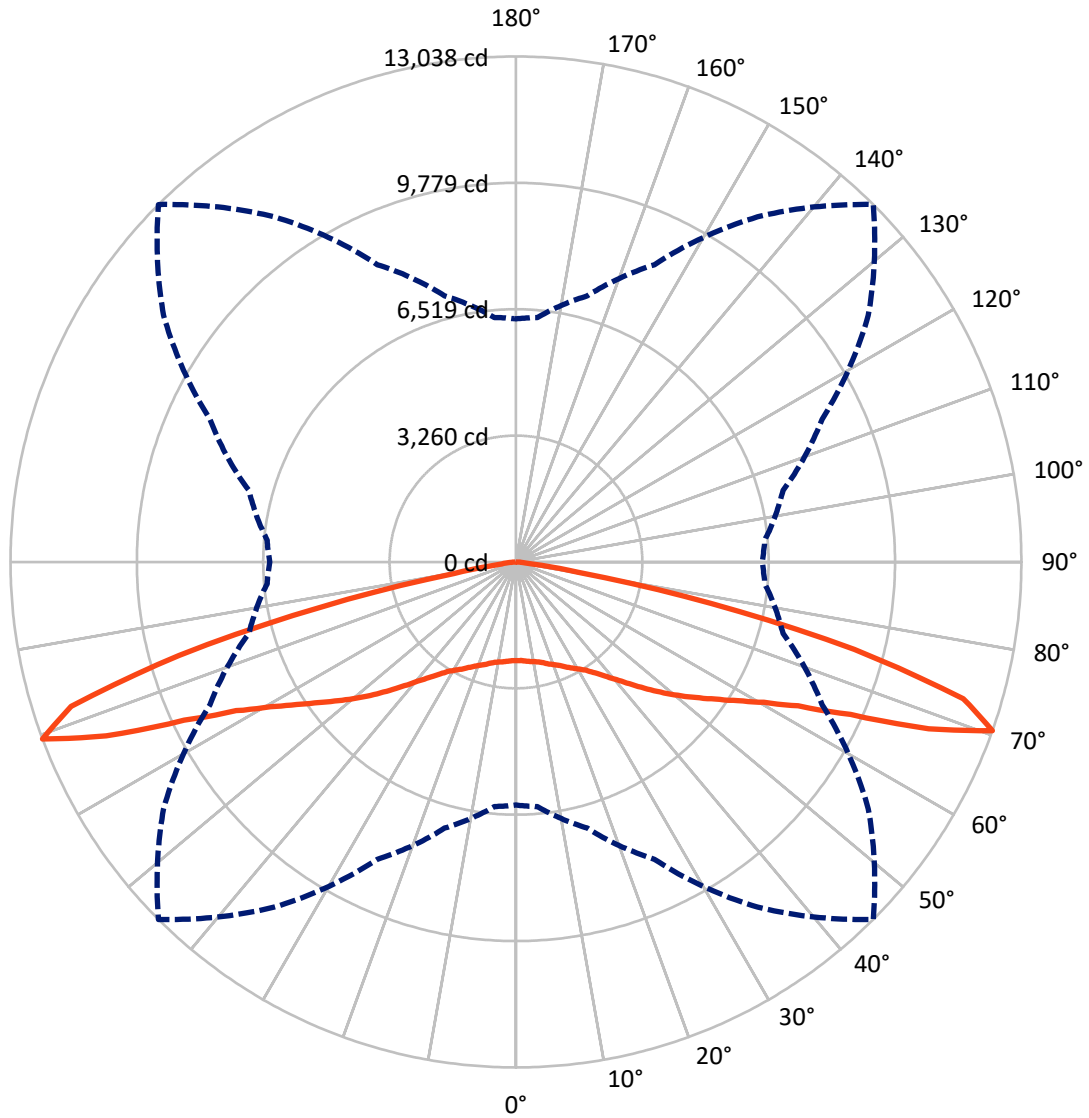
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13275.8	0.0	13275.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13275.8	0.0	13275.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26551.6	0.0	26551.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	0.9
10°-20°	766.2	2.9
20°-30°	1369.3	5.2
30°-40°	2219.6	8.4
40°-50°	3615.3	13.6
50°-60°	5512.2	20.8
60°-70°	8200.3	30.9
70°-80°	4469.5	16.8
80°-90°	152.2	0.6
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°	26551.6	100.0
0°-180°	26551.6	100.0



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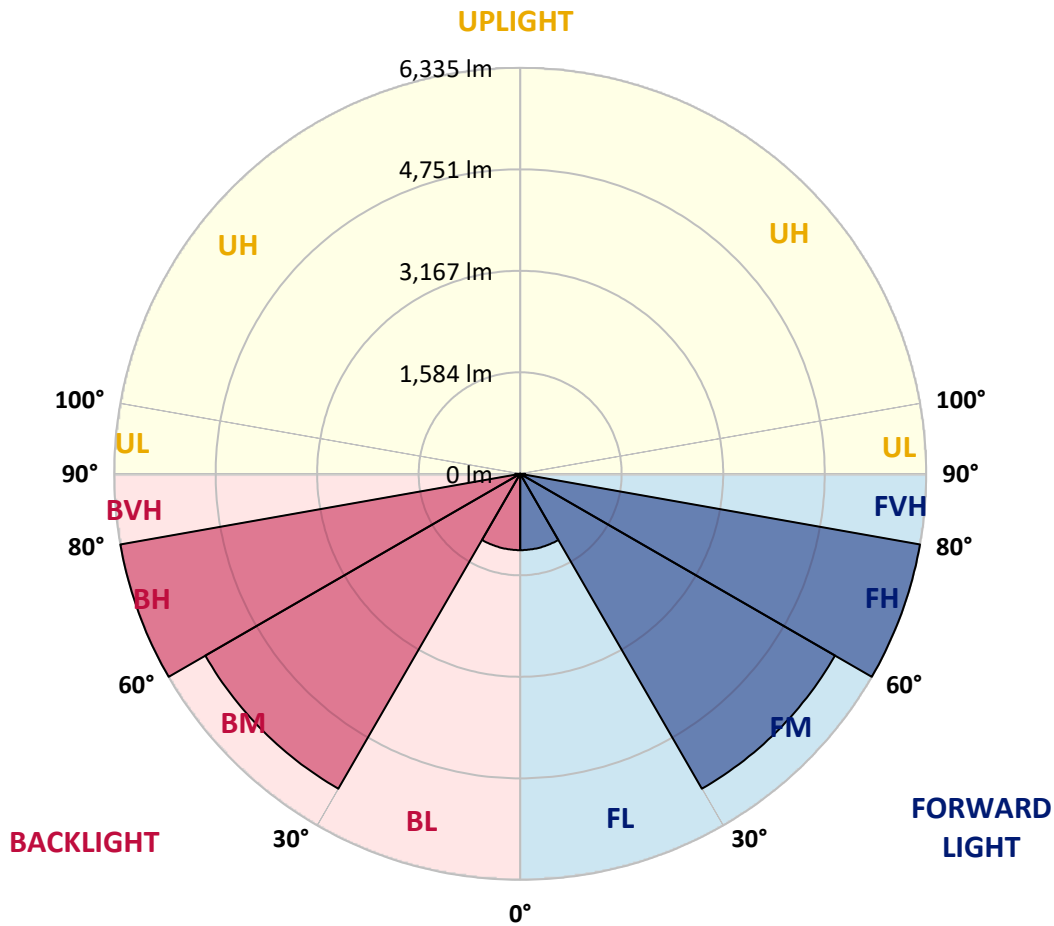
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.3	4.5			
FM (30°-60°)	5673.5	21.4			
FH (60°-80°)	6334.9	23.9			G3/7500
FVH (80°-90°)	76.1	0.3			G1/100
BL (0°-30°)	1191.3	4.5	B3/2500		
BM (30°-60°)	5673.5	21.4	B4/8500		
BH (60°-80°)	6334.9	23.9	B5		G3/7500
BVH (80°-90°)	76.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3	2543.3
2.5°	2555.3	2558.0	2552.7	2550.0	2547.3	2543.3	2544.7	2551.3	2556.7	2555.3	2556.7
5°	2576.6	2579.3	2575.3	2574.0	2568.6	2567.3	2567.3	2574.0	2578.0	2575.3	2576.6
7.5°	2600.7	2604.7	2598.1	2596.7	2594.1	2591.4	2590.1	2596.7	2600.7	2600.7	2600.7
10°	2623.4	2627.4	2622.1	2618.1	2615.4	2615.4	2612.7	2618.1	2624.7	2623.4	2623.4
12.5°	2647.4	2650.0	2644.7	2642.0	2642.0	2646.0	2642.0	2644.7	2650.0	2647.4	2646.0
15°	2676.7	2678.0	2676.7	2680.7	2687.3	2700.7	2688.7	2686.0	2688.7	2682.0	2682.0
17.5°	2716.7	2719.3	2724.7	2734.0	2743.3	2767.3	2746.0	2739.3	2739.3	2726.0	2726.0
20°	2766.0	2770.0	2778.0	2793.9	2805.9	2828.6	2807.3	2797.9	2793.9	2776.6	2776.6
22.5°	2817.9	2824.6	2836.6	2858.0	2879.3	2900.6	2879.3	2863.3	2851.2	2828.6	2827.3
25°	2878.0	2886.0	2904.6	2939.3	2968.6	2999.3	2973.9	2942.0	2918.0	2886.0	2884.7
27.5°	2963.3	2972.6	2995.3	3037.9	3075.2	3101.9	3077.9	3036.6	3003.2	2964.6	2963.3
30°	3083.2	3092.5	3119.2	3164.6	3189.9	3207.2	3191.2	3159.3	3119.2	3075.2	3075.2
32.5°	3237.9	3249.9	3279.2	3321.8	3327.2	3329.8	3324.5	3308.5	3279.2	3225.9	3227.2
35°	3433.9	3447.2	3480.5	3515.1	3509.8	3515.1	3507.1	3501.8	3480.5	3419.2	3419.2
37.5°	3673.8	3689.8	3724.4	3751.1	3737.8	3731.1	3732.4	3733.8	3721.8	3653.7	3653.7
40°	3952.4	3973.7	3999.0	4027.0	4004.4	3984.4	3997.7	4008.4	3997.7	3928.3	3928.3
42.5°	4239.0	4269.6	4296.3	4336.3	4317.6	4292.3	4310.9	4322.9	4300.3	4225.7	4231.0
45°	4557.6	4586.9	4621.5	4681.5	4668.2	4641.5	4668.2	4670.8	4632.2	4544.2	4553.6
47.5°	4886.8	4917.4	4969.4	5049.5	5044.1	5014.7	5049.5	5030.7	4981.4	4876.1	4869.5
50°	5198.7	5241.3	5321.4	5433.3	5444.0	5408.0	5454.6	5418.7	5336.0	5204.0	5201.4
52.5°	5492.0	5537.3	5663.9	5815.8	5854.6	5807.9	5870.6	5807.9	5683.9	5514.6	5498.6
55°	5799.9	5850.6	6001.2	6199.8	6277.1	6242.5	6301.1	6206.5	6030.5	5825.2	5797.2
57.5°	6162.5	6193.2	6373.0	6609.0	6739.7	6747.7	6774.3	6614.3	6401.1	6167.8	6135.9
60°	6555.7	6598.3	6794.3	7076.9	7283.5	7350.2	7322.2	7084.9	6837.0	6569.0	6526.4
62.5°	7059.6	7106.2	7340.8	7679.4	8006.0	8171.3	8062.0	7718.0	7411.5	7090.2	7034.3
65°	7476.8	7528.8	7952.7	8556.5	9151.1	9483.0	9208.4	8575.3	8023.3	7570.1	7495.5
67.5°	7174.2	7238.2	7903.4	9012.4	10490.8	11481.1	10541.4	9148.4	8067.4	7452.8	7360.8
70°	6270.4	6330.4	7106.2	8461.9	10868.0	13038.1	11094.6	8711.2	7131.5	6443.8	6351.7
72.5°	4162.9	4356.2	5141.4	6767.7	9704.3	12065.0	9800.2	6630.3	4769.5	4153.6	4019.0
75°	1381.0	1535.7	2071.5	3508.5	6499.7	9023.1	6187.8	3104.5	1640.9	1181.0	1117.0
77.5°	347.9	401.2	553.2	1003.8	2592.7	5137.4	2334.1	819.8	446.6	311.9	278.6
80°	169.3	186.7	266.6	334.6	649.1	1632.9	609.2	314.6	210.6	162.7	149.3
82.5°	93.3	94.6	150.7	189.3	241.3	422.6	250.6	184.0	121.3	98.6	98.6
85°	57.3	56.0	79.9	101.3	101.3	150.7	119.9	101.3	69.3	61.3	64.0
87.5°	22.7	22.7	29.3	32.0	28.0	38.6	30.6	33.3	26.6	25.3	26.6
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)