

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: P884142

Luminaire Tested: **NVN-SB4D-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33893 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

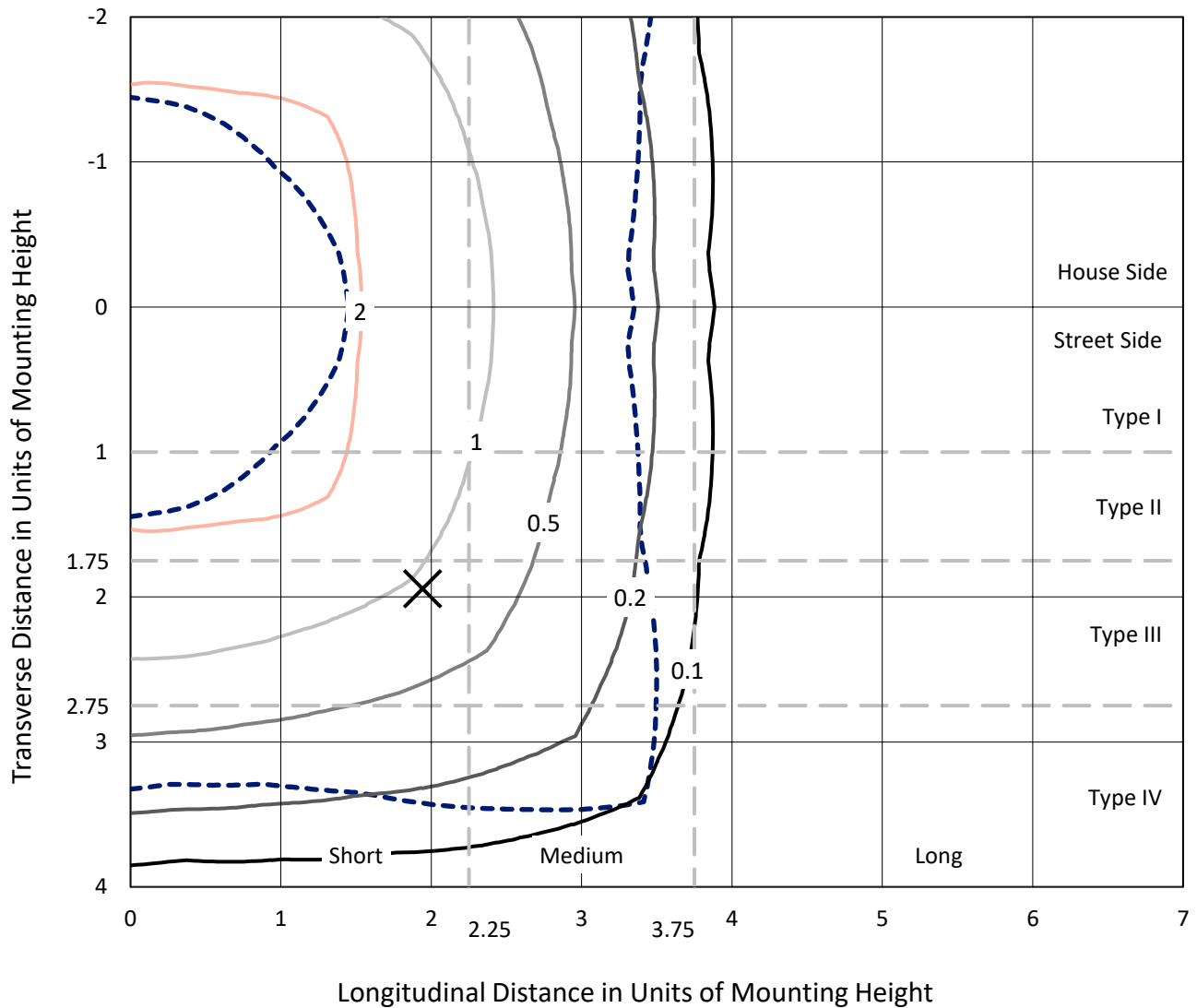
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

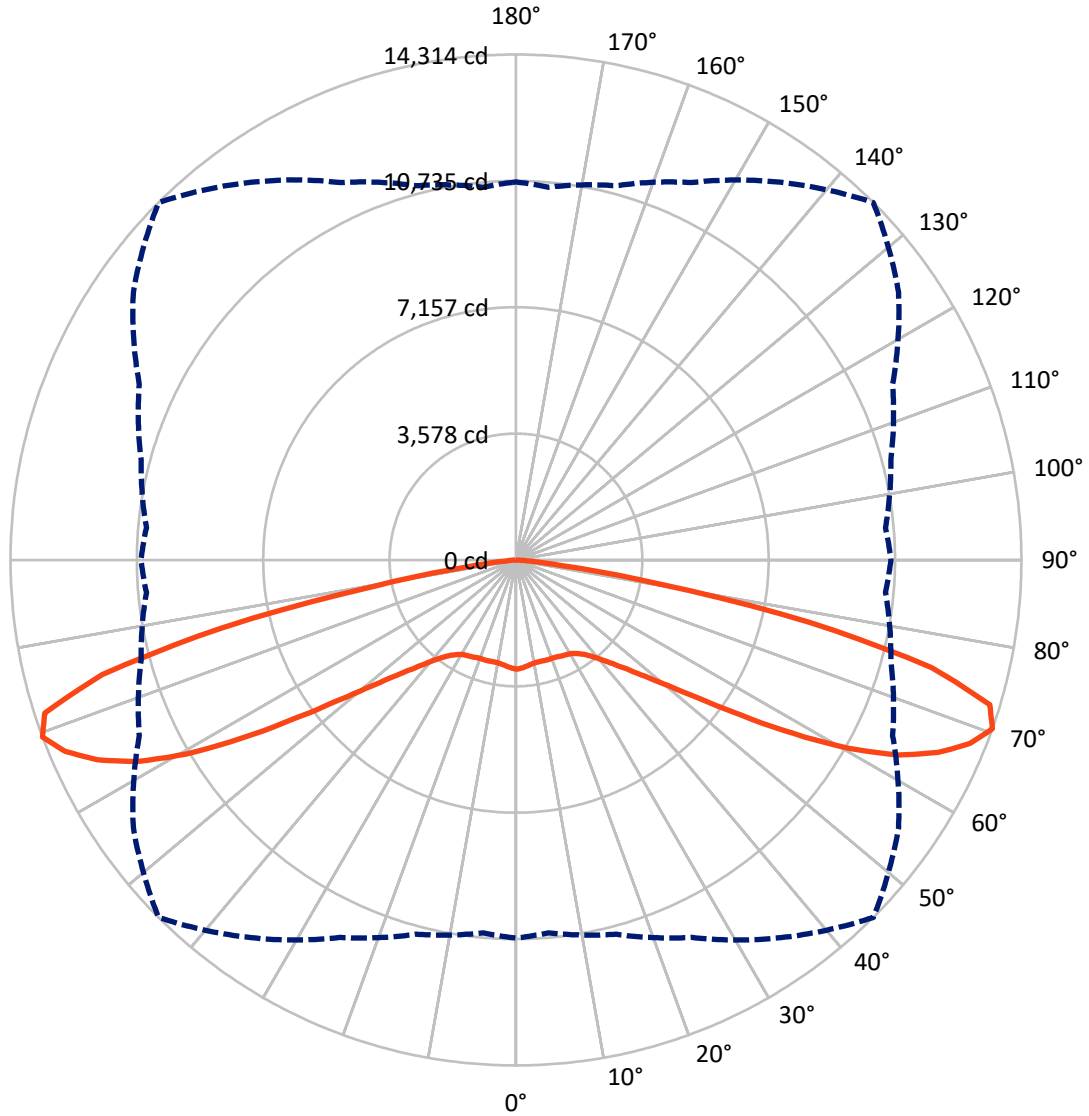
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	16946.5	0.0	16946.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16946.5	0.0	16946.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33893.0	0.0	33893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	0.8
10°-20°	844.5	2.5
20°-30°	1405.3	4.1
30°-40°	2125.3	6.3
40°-50°	3531.7	10.4
50°-60°	6664.2	19.7
60°-70°	11252.8	33.2
70°-80°	7394.2	21.8
80°-90°	387.4	1.1
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°	33893.0	100.0
0°-180°	33893.0	100.0

Coefficient of Utilization



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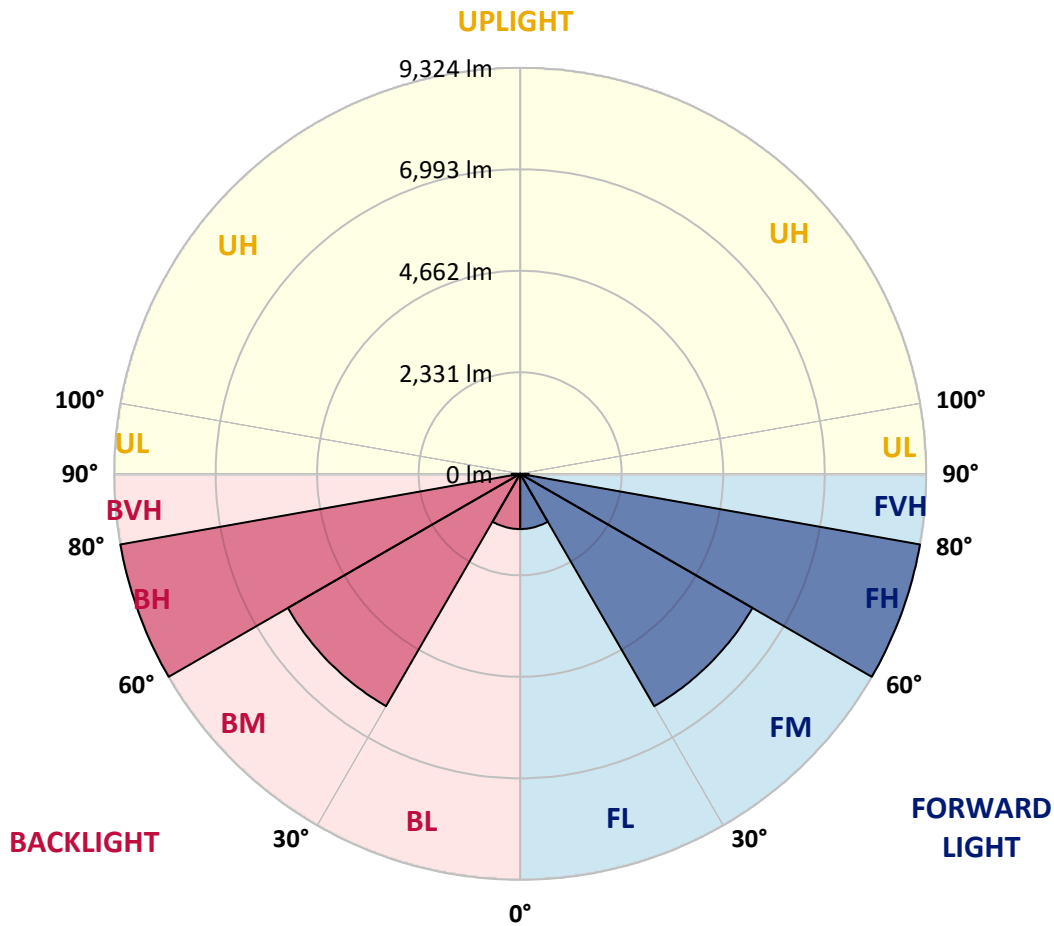
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.7	3.7			
FM (30°-60°)	6160.6	18.2			
FH (60°-80°)	9323.5	27.5			G4/12000
FVH (80°-90°)	193.7	0.6			G2/225
BL (0°-30°)	1268.7	3.7	B3/2500		
BM (30°-60°)	6160.6	18.2	B4/8500		
BH (60°-80°)	9323.5	27.5	B5		G4/12000
BVH (80°-90°)	193.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7
2.5°	3072.3	3081.2	3077.6	3070.6	3070.6	3065.3	3070.6	3074.1	3079.4	3082.9	3081.2
5°	3031.8	3038.9	3037.1	3031.8	3033.6	3028.3	3031.8	3037.1	3040.6	3042.4	3042.4
7.5°	2996.6	3003.6	3000.1	2991.3	2991.3	2986.0	2987.8	2993.1	2998.4	3000.1	3000.1
10°	2987.8	2994.8	2984.3	2970.2	2964.9	2957.8	2959.6	2964.9	2975.5	2980.7	2980.7
12.5°	2991.3	2996.6	2986.0	2964.9	2959.6	2952.6	2952.6	2957.8	2971.9	2979.0	2980.7
15°	3001.9	3007.2	2991.3	2968.4	2963.1	2957.8	2956.1	2963.1	2979.0	2991.3	2993.1
17.5°	3021.3	3026.5	3001.9	2970.2	2963.1	2964.9	2963.1	2968.4	2993.1	3016.0	3016.0
20°	3038.9	3042.4	3008.9	2970.2	2963.1	2964.9	2963.1	2973.7	3005.4	3037.1	3038.9
22.5°	3044.2	3047.7	3016.0	2982.5	2977.2	2979.0	2977.2	2987.8	3017.7	3049.4	3049.4
25°	3045.9	3051.2	3026.5	3000.1	3008.9	3012.4	3008.9	3010.7	3033.6	3061.8	3060.0
27.5°	3072.3	3079.4	3056.5	3033.6	3038.9	3037.1	3042.4	3047.7	3065.3	3093.5	3086.4
30°	3127.0	3132.2	3112.9	3090.0	3086.4	3074.1	3090.0	3107.6	3127.0	3151.6	3146.3
32.5°	3216.8	3227.4	3202.7	3178.0	3162.2	3155.1	3167.5	3197.4	3223.8	3250.3	3239.7
35°	3366.5	3373.6	3350.7	3304.9	3276.7	3276.7	3287.3	3326.0	3368.3	3401.8	3389.4
37.5°	3577.9	3586.8	3546.2	3491.6	3449.3	3449.3	3463.4	3504.0	3567.4	3614.9	3597.3
40°	3835.1	3847.5	3796.4	3740.0	3699.5	3692.5	3710.1	3755.9	3815.8	3875.7	3856.3
42.5°	4145.2	4159.3	4092.4	4043.0	4011.3	4011.3	4020.1	4062.4	4117.0	4191.0	4185.7
45°	4541.6	4566.2	4474.6	4425.3	4395.4	4402.4	4407.7	4444.7	4494.0	4578.6	4575.0
47.5°	5013.7	5038.4	4941.5	4890.4	4885.1	4918.6	4897.4	4923.9	4950.3	5047.2	5019.0
50°	5549.2	5591.5	5524.6	5521.1	5531.6	5593.3	5544.0	5558.1	5528.1	5589.8	5552.8
52.5°	6204.6	6266.2	6253.9	6275.1	6393.1	6519.9	6407.2	6357.9	6245.1	6264.5	6199.3
55°	6999.1	7092.5	7110.1	7236.9	7504.7	7763.7	7524.1	7325.0	7085.4	7041.4	6972.7
57.5°	7902.8	7976.8	8061.4	8320.3	8820.7	9280.5	8820.7	8380.2	8003.2	7913.4	7850.0
60°	8875.3	8966.9	9047.9	9430.2	10173.6	10820.2	10159.5	9460.1	8961.6	8840.0	8734.3
62.5°	9919.9	10038.0	10094.3	10518.9	11385.6	12157.3	11398.0	10550.6	9997.5	9867.1	9761.4
65°	10922.3	11019.2	11082.6	11535.4	12363.4	13136.7	12419.7	11584.7	11015.7	10844.8	10760.3
67.5°	11389.2	11442.0	11597.0	12109.7	12983.5	13866.1	13131.5	12164.3	11528.3	11228.9	11232.4
70°	10705.6	10598.2	10971.7	11792.6	13057.5	14313.5	13226.6	11767.9	10989.3	10503.1	10619.3
72.5°	8272.8	8087.8	8736.1	10140.2	12211.9	14028.1	12296.4	10219.4	9139.5	8153.0	8397.9
75°	4501.1	4291.4	5186.3	6962.1	9738.5	12159.0	9962.2	7161.2	5774.7	4467.6	4758.3
77.5°	1270.2	1190.9	1913.2	3368.3	5857.5	8537.0	6083.0	3442.3	2269.0	1345.9	1495.7
80°	389.3	377.0	510.9	1014.7	2487.5	4088.8	2390.6	1027.1	650.1	410.5	433.4
82.5°	230.8	211.4	253.7	369.9	634.2	1284.3	616.6	385.8	310.1	207.9	225.5
85°	132.1	123.3	149.7	179.7	213.2	273.1	177.9	183.2	165.6	111.0	116.3
87.5°	54.6	49.3	58.1	56.4	49.3	63.4	47.6	56.4	66.9	44.0	40.5
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)