

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: P967314

Luminaire Tested: **NVN-SB4D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967314
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-SB4D-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 37432 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

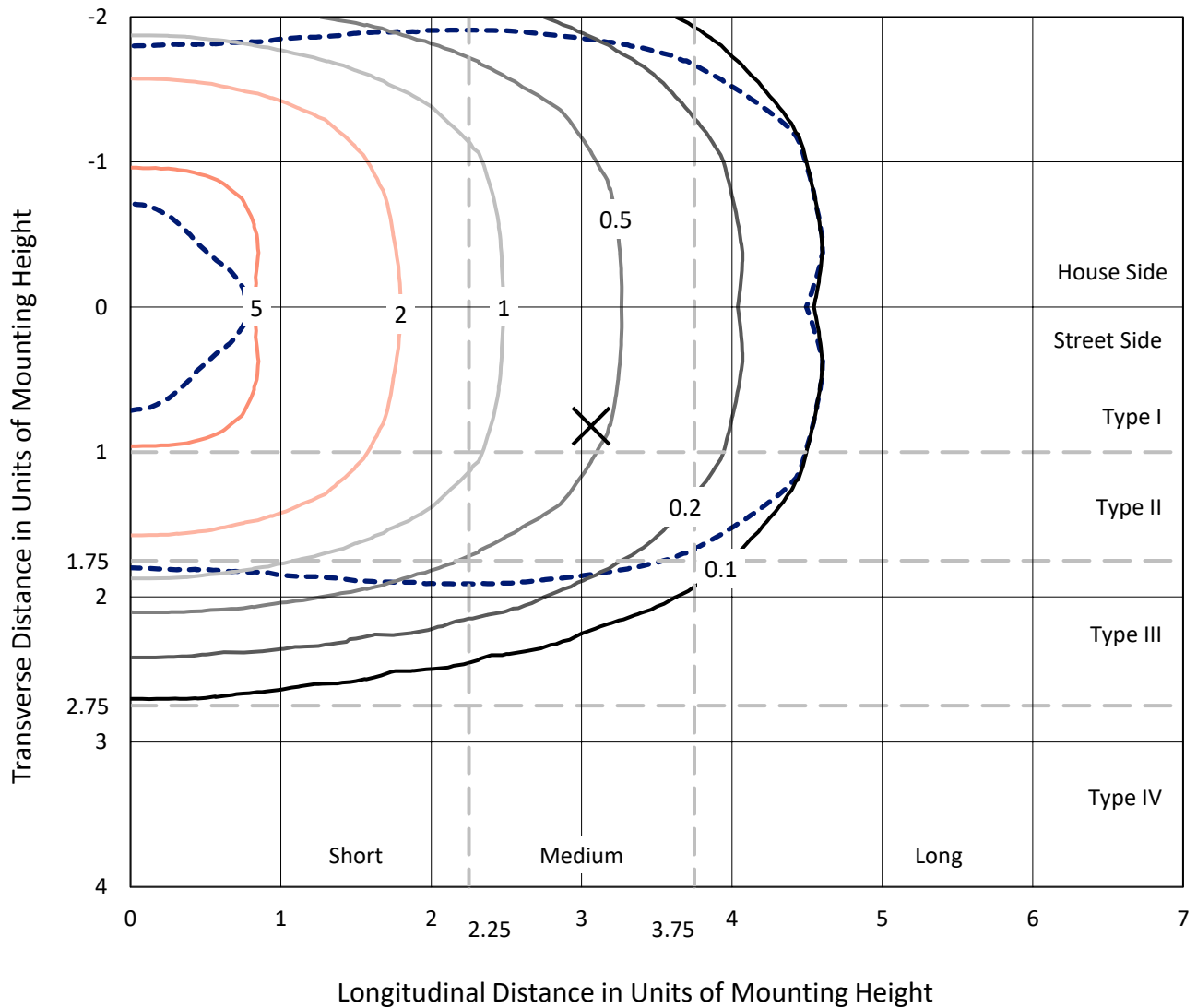
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

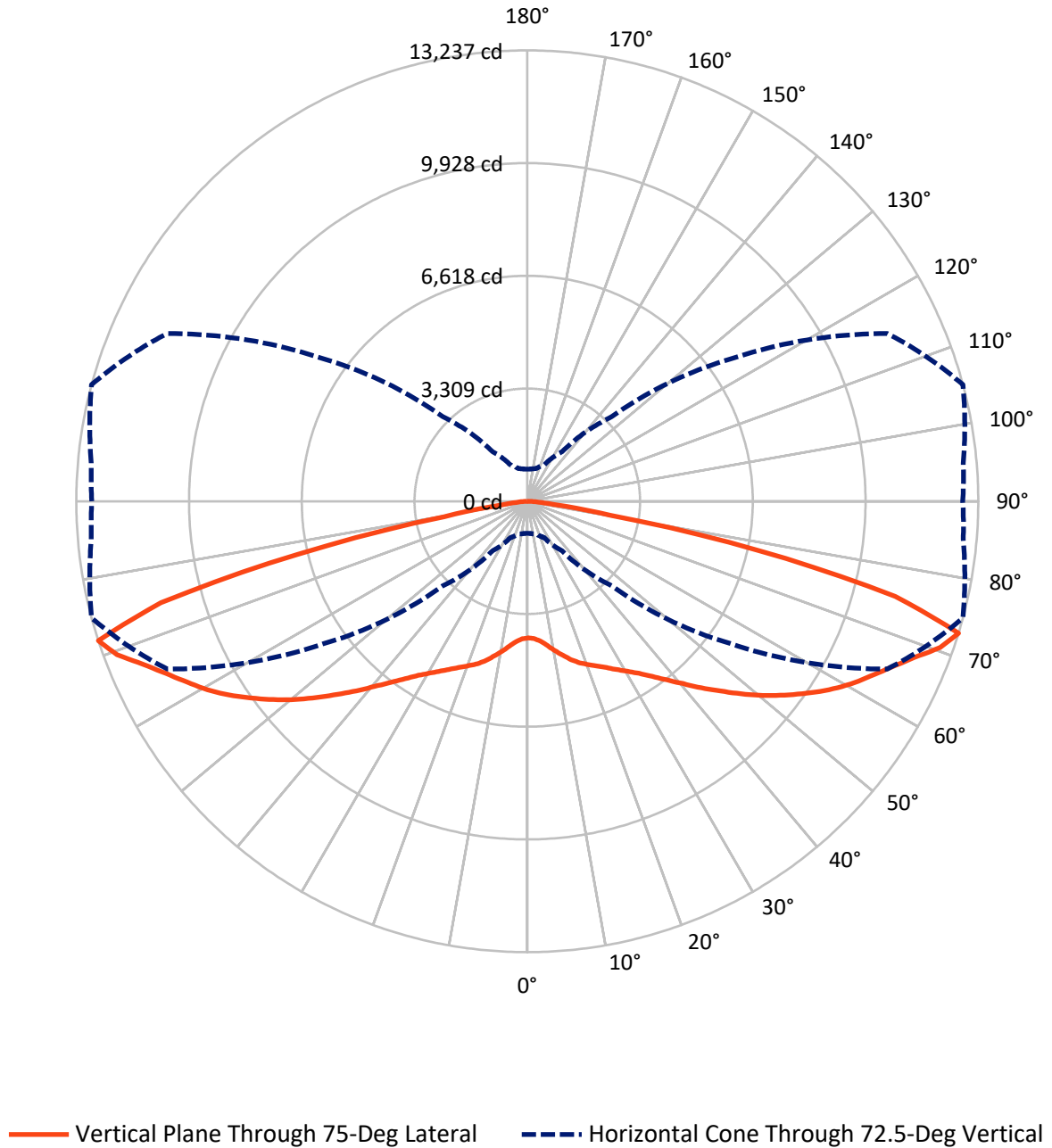
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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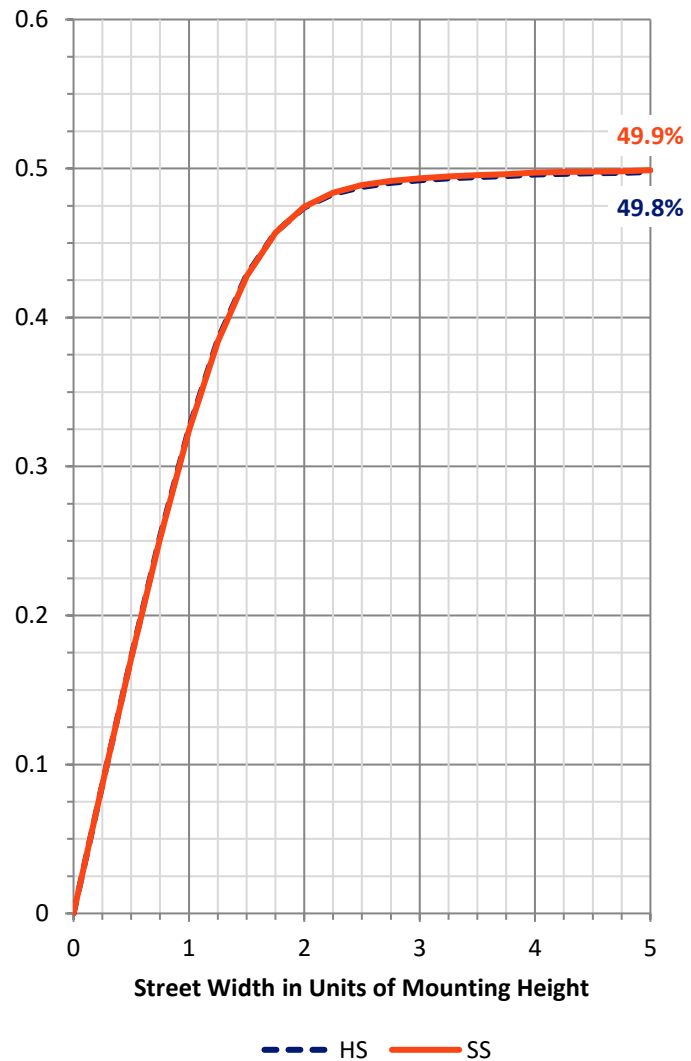
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18716.0	0.0	18716.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18716.0	0.0	18716.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37432.0	0.0	37432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	1.0
10°-20°	1295.5	3.5
20°-30°	2503.2	6.7
30°-40°	4226.8	11.3
40°-50°	6703.3	17.9
50°-60°	8974.9	24.0
60°-70°	8541.2	22.8
70°-80°	4456.9	11.9
80°-90°	337.4	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°	37432.0	100.0
0°-180°	37432.0	100.0

Coefficient of Utilization



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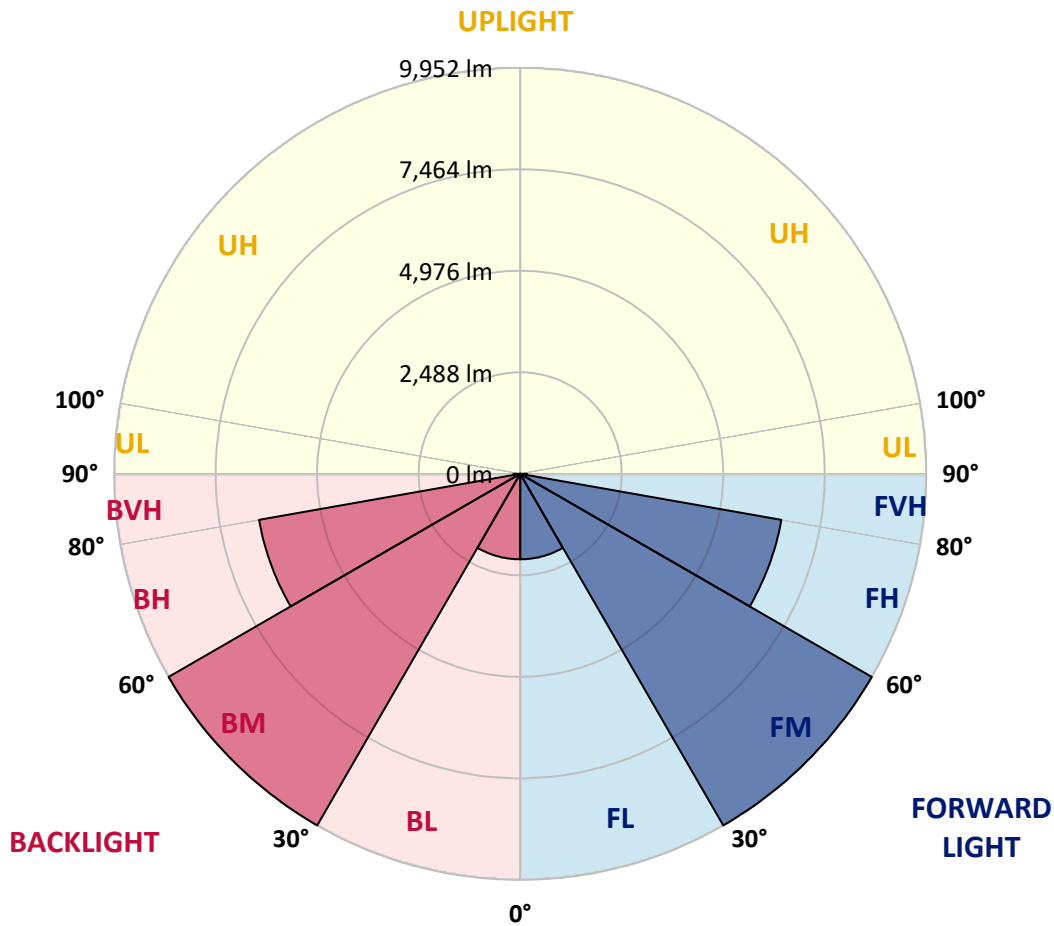
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2095.7	5.6			
FM (30°-60°)	9952.5	26.6			
FH (60°-80°)	6499.1	17.4			G3/7500
FVH (80°-90°)	168.7	0.5			G2/225
BL (0°-30°)	2095.7	5.6	B3/2500		
BM (30°-60°)	9952.5	26.6	B5		
BH (60°-80°)	6499.1	17.4	B5		G5
BVH (80°-90°)	168.7	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°	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6	4009.6
2.5°	4009.6	4005.8	4009.6	4013.5	4011.5	4011.5	4021.1	4026.8	4038.3	4036.3	4034.5
5°	3982.8	3981.0	3996.3	4013.5	4026.8	4049.8	4078.5	4099.5	4126.2	4132.0	4132.0
7.5°	3969.5	3963.8	3990.5	4021.1	4063.1	4120.5	4176.0	4233.2	4279.1	4294.4	4298.2
10°	3979.0	3981.0	4017.3	4074.6	4141.5	4221.8	4300.2	4397.6	4462.5	4477.9	4493.2
12.5°	4023.0	4019.2	4080.3	4172.1	4263.8	4365.1	4456.8	4563.9	4634.5	4670.9	4686.2
15°	4103.3	4095.6	4181.6	4317.3	4451.2	4569.7	4644.2	4745.4	4827.6	4873.5	4890.7
17.5°	4198.8	4202.7	4315.5	4491.2	4667.0	4800.9	4871.6	4923.2	4986.2	5026.4	5045.5
20°	4367.0	4374.7	4500.8	4709.2	4909.8	5062.7	5120.0	5100.9	5118.1	5148.7	5171.6
22.5°	4592.5	4596.4	4737.8	4963.4	5173.6	5341.7	5379.9	5301.6	5253.8	5274.9	5290.1
25°	4854.4	4879.2	5020.7	5251.9	5467.9	5628.4	5645.6	5527.1	5408.6	5414.4	5423.9
27.5°	5173.6	5196.4	5339.8	5569.1	5788.9	5928.5	5926.5	5767.9	5594.0	5550.1	5563.4
30°	5519.4	5544.3	5691.4	5928.5	6133.0	6255.3	6228.5	6039.3	5790.8	5708.6	5718.3
32.5°	5930.3	5945.6	6094.8	6331.7	6520.9	6618.4	6563.0	6329.8	6020.2	5926.5	5949.5
35°	6427.3	6450.2	6561.0	6784.7	6950.9	7031.2	6937.5	6662.3	6314.5	6209.3	6224.7
37.5°	6994.9	6979.6	7105.7	7304.5	7442.1	7491.8	7363.7	7036.9	6650.9	6526.7	6549.5
40°	7587.4	7579.7	7717.3	7908.4	7983.0	8013.6	7824.3	7466.9	7038.9	6905.0	6949.0
42.5°	8124.4	8118.6	8304.0	8516.2	8606.0	8571.6	8332.7	7923.7	7487.9	7335.1	7373.3
45°	8554.4	8546.8	8774.2	9072.3	9248.2	9190.9	8869.7	8428.3	7942.8	7784.2	7820.5
47.5°	8885.0	8888.9	9133.5	9502.4	9810.1	9831.1	9418.2	8942.4	8443.5	8263.9	8317.4
50°	9123.9	9135.4	9397.2	9806.2	10226.6	10412.1	9978.2	9469.9	8961.5	8758.9	8820.0
52.5°	9183.2	9204.2	9519.6	9999.3	10494.3	10847.8	10547.8	9976.3	9452.7	9259.6	9309.4
55°	8867.8	8909.9	9309.4	9983.9	10658.6	11134.5	11048.5	10490.4	9947.6	9748.9	9804.3
57.5°	8143.5	8202.8	8669.0	9550.1	10622.3	11331.4	11436.4	10983.5	10442.6	10251.5	10295.5
60°	7128.7	7199.4	7646.6	8607.9	10110.1	11403.9	11709.7	11463.2	10897.5	10712.1	10752.2
62.5°	5597.8	5689.6	6224.7	7352.2	9028.4	11065.7	11942.9	11897.1	11306.5	11075.2	11102.0
65°	3591.1	3688.6	4252.3	5584.4	7585.4	10029.8	12015.6	12319.4	11738.4	11415.4	11455.5
67.5°	2165.3	2209.3	2488.4	3384.7	5544.3	8468.3	11400.2	12787.6	12242.9	11841.6	11872.2
70°	1385.6	1410.4	1576.8	1987.6	3134.3	6178.8	9875.1	12875.5	12854.5	12279.3	12275.4
72.5°	940.3	947.9	991.9	1177.3	1773.6	3510.8	7283.4	11656.2	13236.7	12843.0	12782.0
75°	688.0	730.1	800.7	833.2	1007.2	1754.5	4174.0	8189.3	11155.5	11327.5	10910.9
77.5°	512.2	514.1	611.6	649.7	718.6	934.6	1765.9	4571.5	6926.1	7272.0	6486.5
80°	433.9	410.9	409.0	523.7	540.9	582.9	789.4	1578.6	2480.7	1504.1	1137.1
82.5°	361.2	336.4	303.9	409.0	368.9	357.4	342.1	642.2	789.4	388.0	330.7
85°	252.3	240.8	229.3	267.5	210.2	179.7	164.4	300.0	332.5	164.4	145.2
87.5°	109.0	112.7	114.7	118.5	87.9	63.0	63.0	84.0	84.0	65.0	47.8
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)