

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: P969422

Luminaire Tested: **NVN-SB5D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969422
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-SB5D-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 47179.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

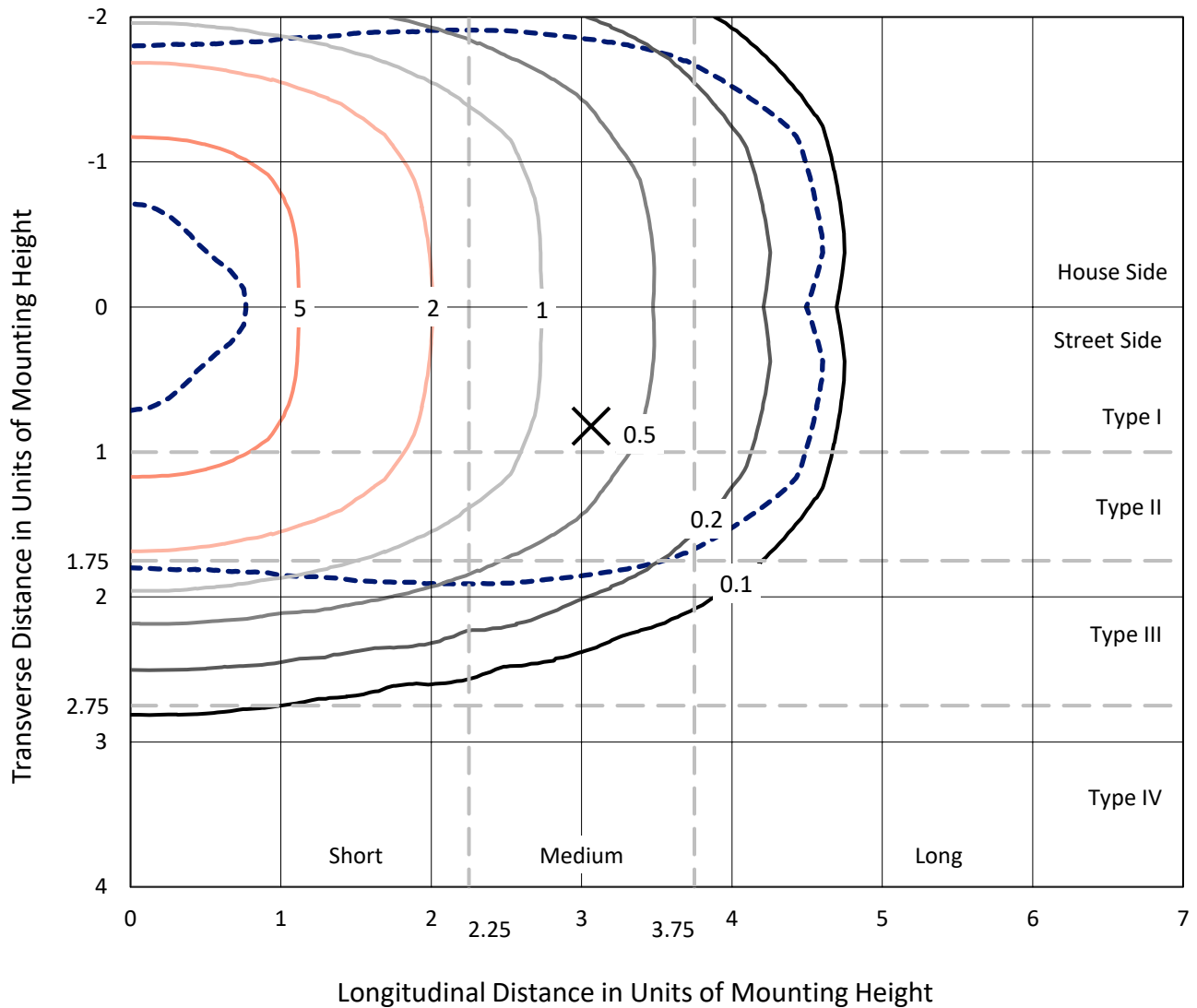
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

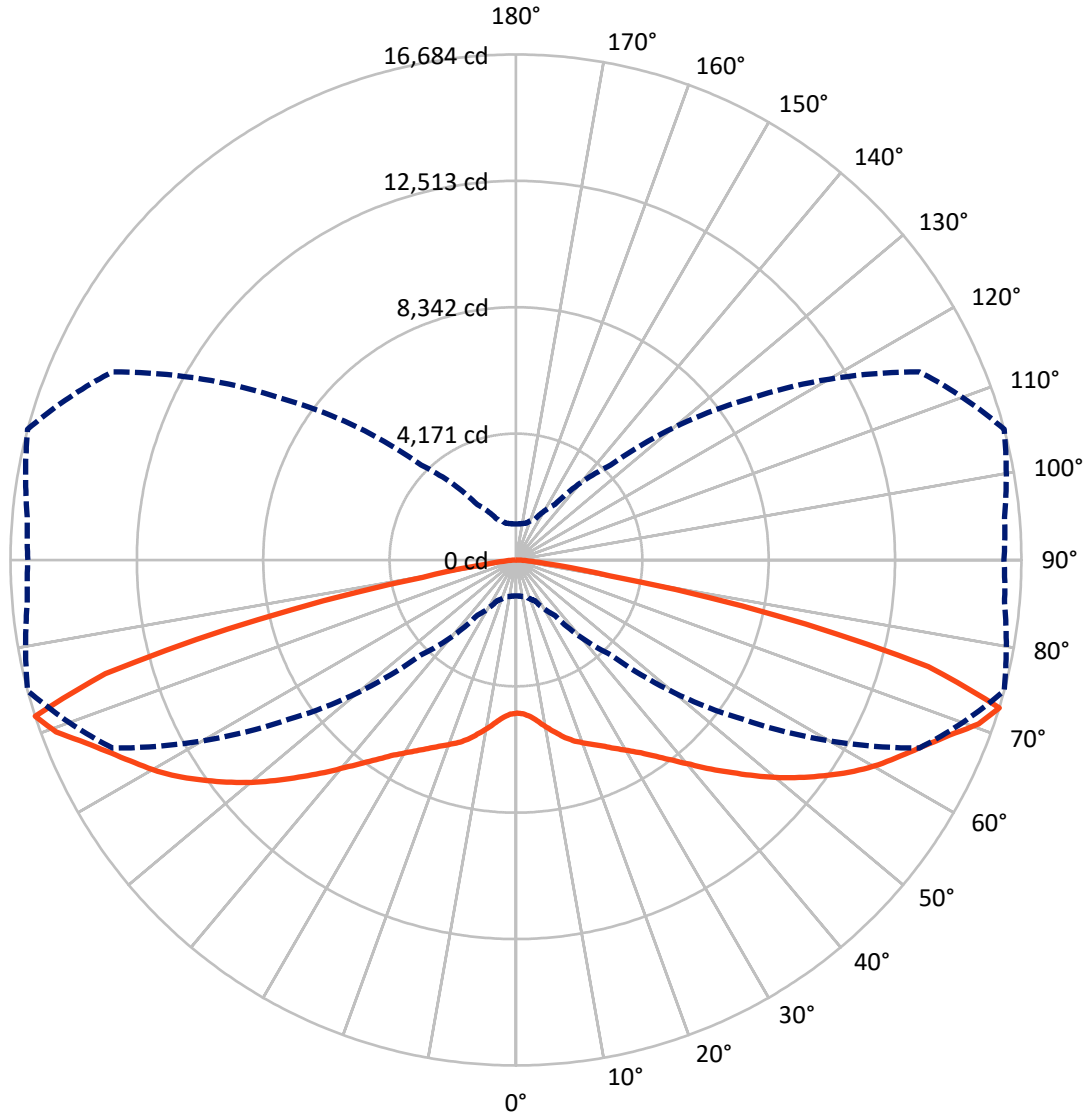
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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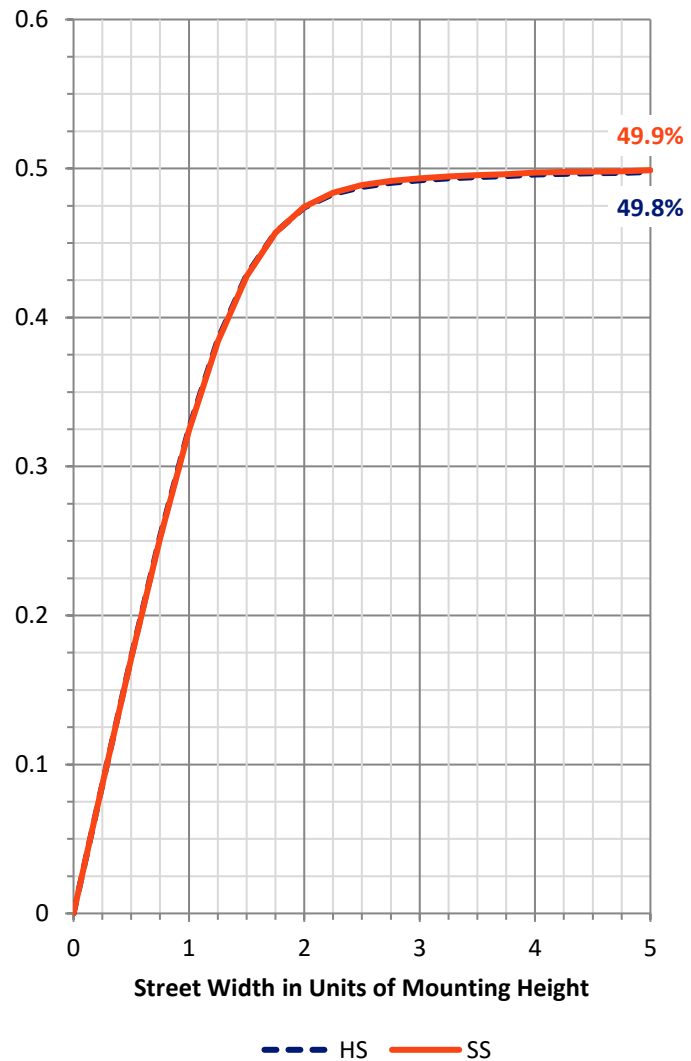
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23589.9	0.0	23589.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23589.9	0.0	23589.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	47179.7	0.0	47179.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.1	1.0
10°-20°	1632.8	3.5
20°-30°	3155.1	6.7
30°-40°	5327.5	11.3
40°-50°	8448.9	17.9
50°-60°	11312.1	24.0
60°-70°	10765.5	22.8
70°-80°	5617.6	11.9
80°-90°	425.2	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°	47179.7	100.0
0°-180°	47179.7	100.0

Coefficient of Utilization



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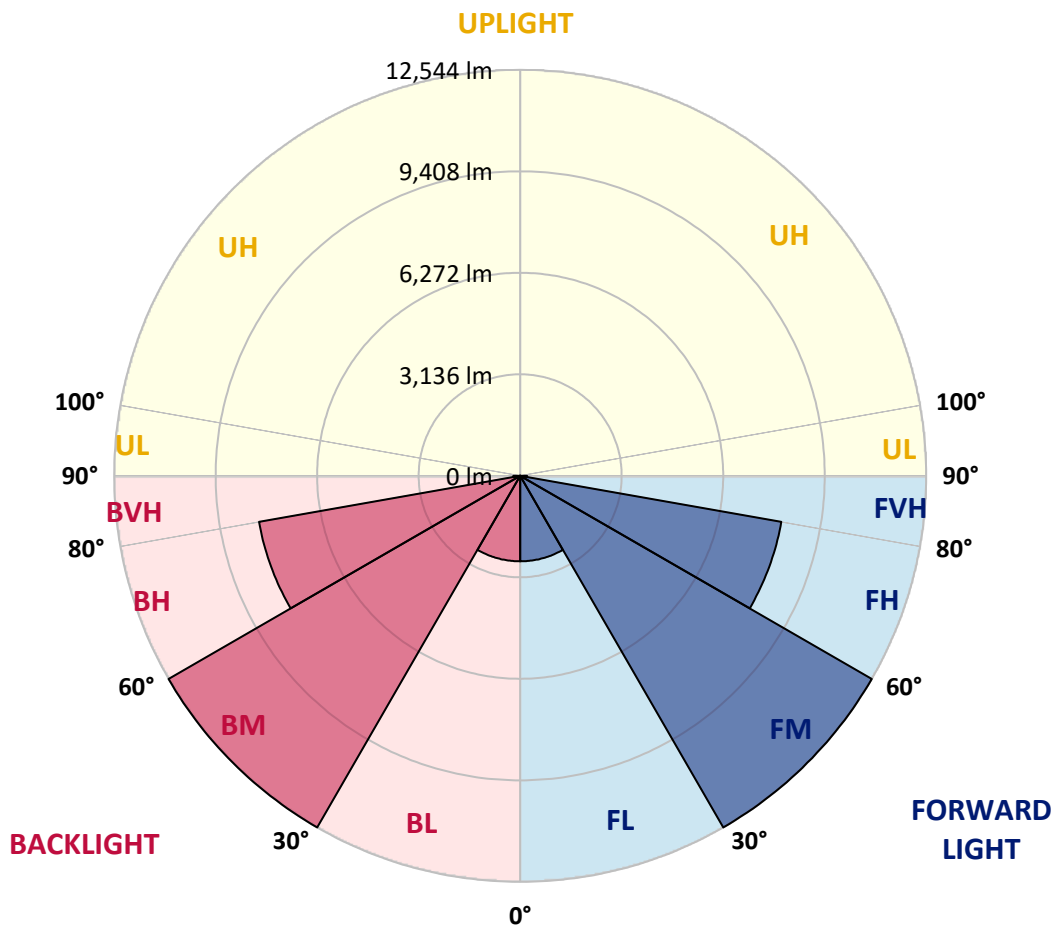
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2641.5	5.6			
FM (30°-60°)	12544.2	26.6			
FH (60°-80°)	8191.5	17.4			G4/12000
FVH (80°-90°)	212.6	0.5			G2/225
BL (0°-30°)	2641.5	5.6	B4/5000		
BM (30°-60°)	12544.2	26.6	B5		
BH (60°-80°)	8191.5	17.4	B5		G5
BVH (80°-90°)	212.6	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°	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8	5053.8
2.5°	5053.8	5048.9	5053.8	5058.6	5056.2	5056.2	5068.2	5075.5	5089.9	5087.5	5085.1
5°	5020.0	5017.7	5037.0	5058.6	5075.5	5104.4	5140.5	5167.0	5200.7	5207.9	5207.9
7.5°	5003.2	4996.0	5029.7	5068.2	5121.2	5193.5	5263.4	5335.6	5393.4	5412.7	5417.5
10°	5015.2	5017.7	5063.4	5135.7	5220.0	5321.2	5419.9	5542.8	5624.7	5644.0	5663.2
12.5°	5070.7	5065.9	5142.9	5258.6	5374.2	5501.9	5617.5	5752.4	5841.5	5887.3	5906.6
15°	5171.8	5162.2	5270.5	5441.6	5610.2	5759.6	5853.6	5981.2	6084.8	6142.6	6164.2
17.5°	5292.3	5297.1	5439.2	5660.9	5882.5	6051.1	6140.2	6205.2	6284.7	6335.3	6359.4
20°	5504.2	5513.9	5672.9	5935.5	6188.3	6381.0	6453.3	6429.2	6450.9	6489.5	6518.4
22.5°	5788.5	5793.3	5971.5	6255.8	6520.7	6732.8	6781.0	6682.2	6622.0	6648.5	6667.7
25°	6118.5	6149.8	6328.0	6619.6	6891.8	7094.1	7115.8	6966.4	6817.1	6824.3	6836.3
27.5°	6520.7	6549.6	6730.4	7019.4	7296.5	7472.2	7469.9	7269.9	7050.8	6995.3	7012.2
30°	6956.8	6988.1	7173.6	7472.2	7730.0	7884.2	7850.5	7612.0	7298.8	7195.3	7207.3
32.5°	7474.7	7494.0	7681.9	7980.5	8219.1	8341.9	8272.1	7978.2	7587.9	7469.9	7498.8
35°	8101.0	8129.9	8269.6	8551.5	8761.0	8862.3	8744.2	8397.3	7958.9	7826.4	7845.7
37.5°	8816.4	8797.2	8956.1	9206.7	9380.1	9442.7	9281.4	8869.4	8382.9	8226.2	8255.1
40°	9563.1	9553.5	9726.9	9967.9	10061.8	10100.3	9861.8	9411.4	8871.9	8703.2	8758.6
42.5°	10240.1	10232.9	10466.5	10733.9	10847.1	10803.7	10502.7	9987.2	9437.9	9245.2	9293.4
45°	10782.1	10772.4	11059.1	11434.9	11656.5	11584.2	11179.6	10623.1	10011.3	9811.3	9857.0
47.5°	11198.8	11203.7	11512.0	11976.8	12364.7	12391.2	11870.8	11271.1	10642.4	10415.9	10483.4
50°	11499.9	11514.3	11844.4	12359.9	12889.8	13123.5	12576.6	11935.9	11295.2	11039.9	11116.9
52.5°	11574.6	11601.1	11998.5	12603.2	13227.1	13672.7	13294.6	12574.3	11914.2	11671.0	11733.6
55°	11177.1	11230.1	11733.6	12583.9	13434.3	14034.0	13925.6	13222.3	12538.1	12287.6	12357.5
57.5°	10264.1	10338.9	10926.6	12037.1	13388.4	14282.1	14414.7	13843.8	13162.0	12921.2	12976.5
60°	8985.0	9074.2	9637.9	10849.5	12742.9	14373.7	14759.1	14448.4	13735.3	13501.7	13552.2
62.5°	7055.6	7171.2	7845.7	9266.9	11379.4	13947.3	15052.9	14995.1	14250.8	13959.4	13993.1
65°	4526.3	4649.1	5359.7	7038.7	9560.8	12641.7	15144.5	15527.5	14795.3	14388.1	14438.8
67.5°	2729.3	2784.6	3136.3	4266.0	6988.1	10673.6	14368.9	16117.7	15431.2	14925.3	14963.9
70°	1746.4	1777.8	1987.3	2505.2	3950.6	7787.8	12446.6	16228.5	16202.0	15477.0	15472.2
72.5°	1185.2	1194.8	1250.2	1483.9	2235.4	4425.1	9180.2	14691.6	16683.8	16187.5	16110.4
75°	867.2	920.1	1009.3	1050.2	1269.5	2211.3	5260.9	10322.0	14060.5	14277.3	13752.2
77.5°	645.5	648.0	770.8	819.0	905.7	1177.9	2225.8	5762.0	8729.7	9165.8	8175.7
80°	546.8	517.9	515.5	660.0	681.7	734.7	994.9	1989.7	3126.7	1895.7	1433.3
82.5°	455.3	423.9	383.0	515.5	464.9	450.5	431.2	809.3	994.9	489.0	416.8
85°	318.0	303.5	289.0	337.2	265.0	226.4	207.2	378.2	419.1	207.2	183.1
87.5°	137.4	142.2	144.5	149.3	110.8	79.5	79.5	106.0	106.0	81.9	60.3
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)