

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: P965217

Luminaire Tested: **NVN-SB3D-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26920.6 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

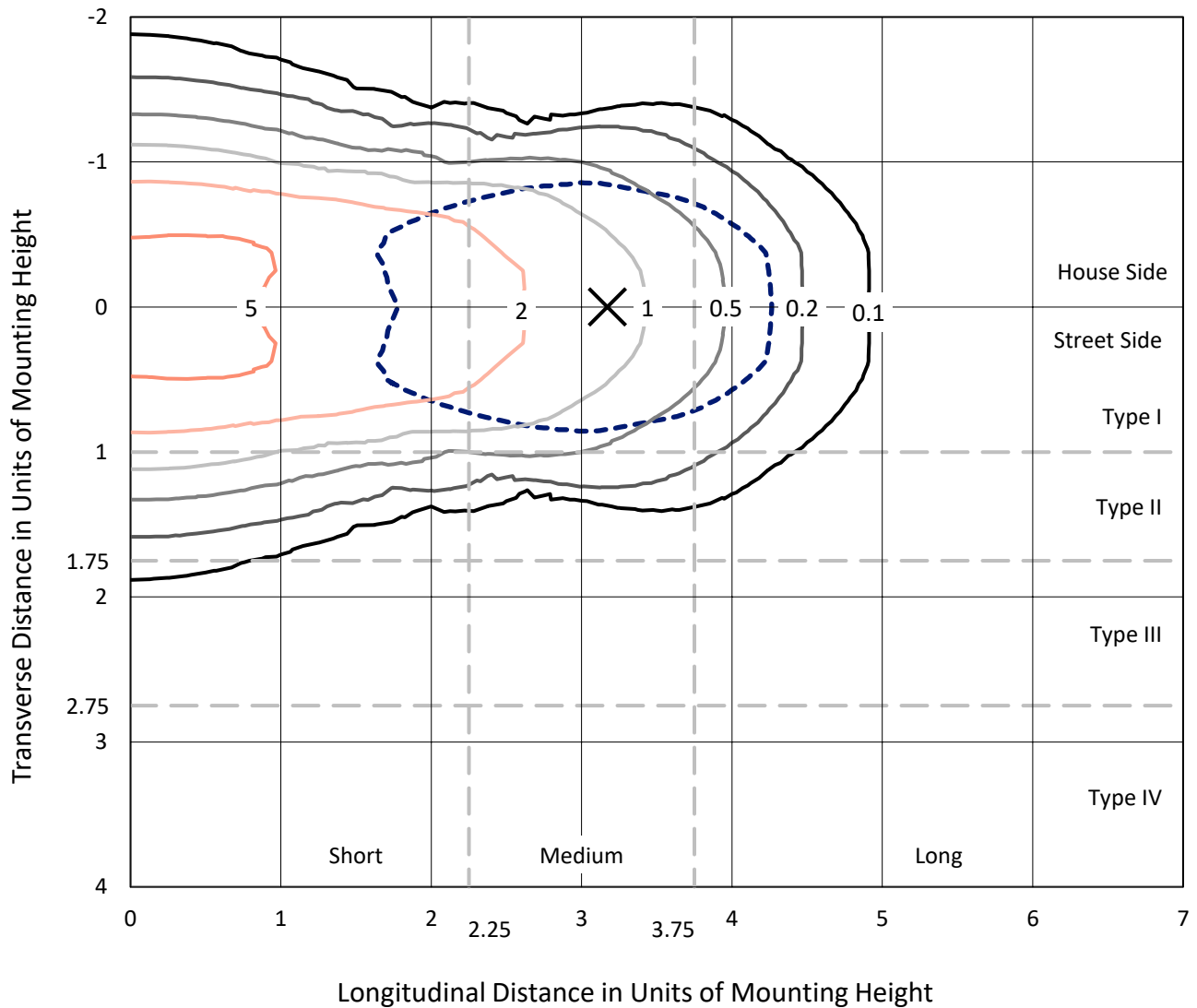
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

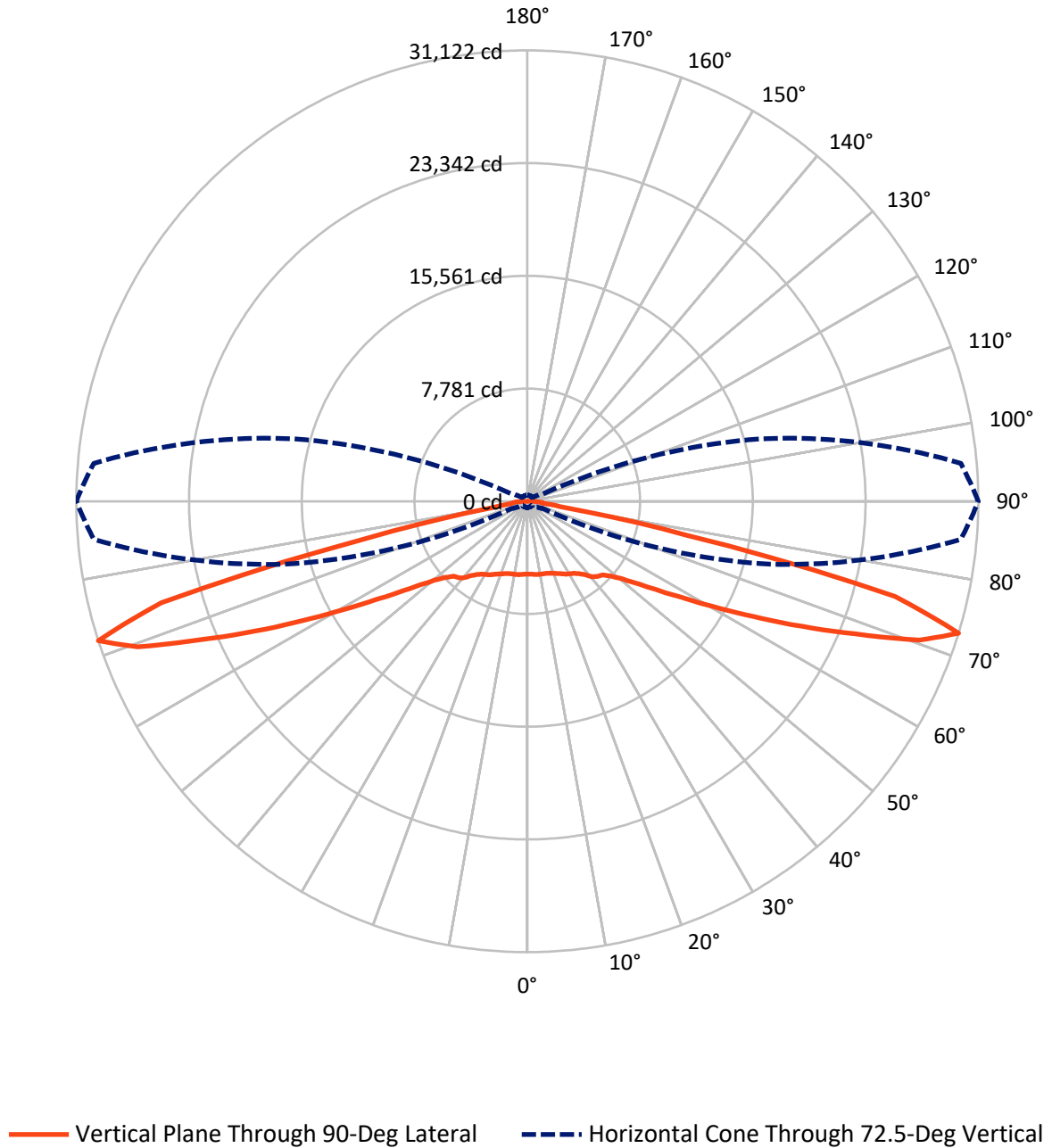
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13460.3	0.0	13460.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13460.3	0.0	13460.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26920.6	0.0	26920.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.8	1.8
10°-20°	1491.4	5.5
20°-30°	2486.7	9.2
30°-40°	3420.0	12.7
40°-50°	4176.8	15.5
50°-60°	4830.9	17.9
60°-70°	5760.0	21.4
70°-80°	4020.1	14.9
80°-90°	246.9	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°	26920.6	100.0
0°-180°	26920.6	100.0



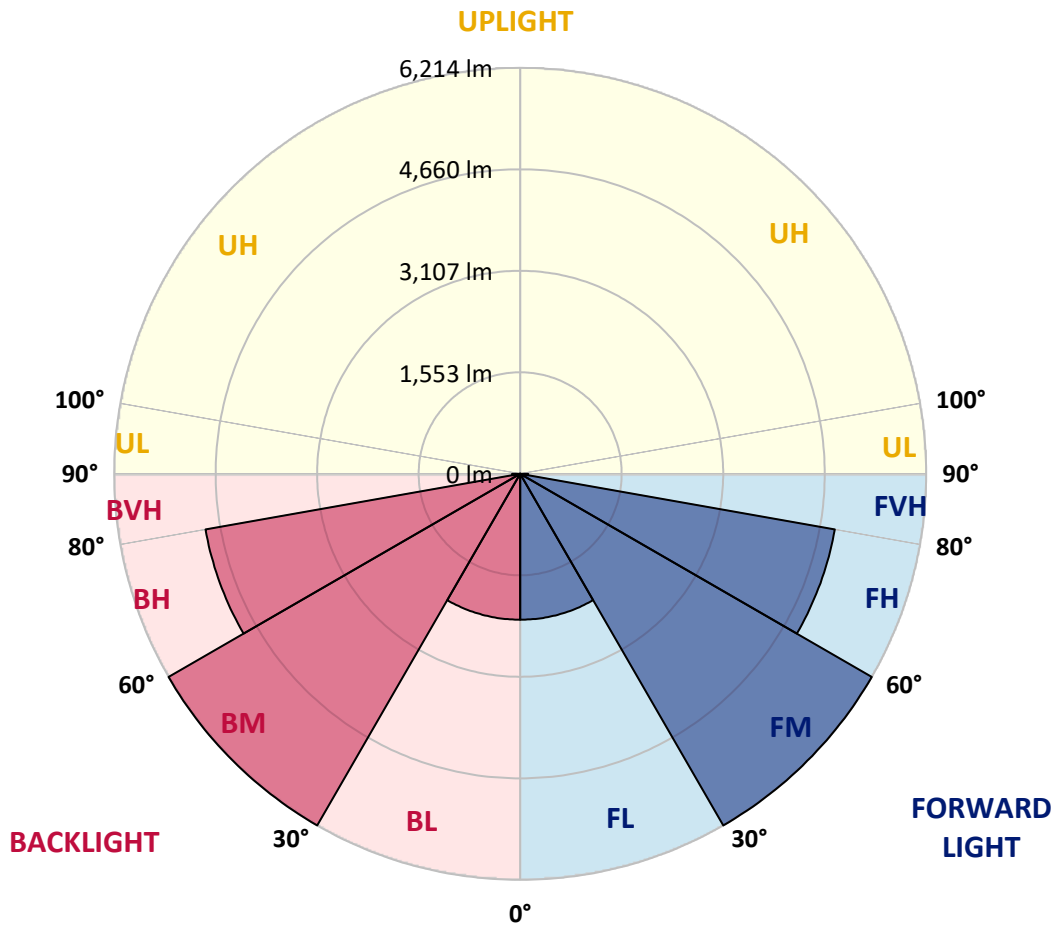
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.9	8.3			
FM (30°-60°)	6213.8	23.1			
FH (60°-80°)	4890.1	18.2			G2/5000
FVH (80°-90°)	123.5	0.5			G2/225
BL (0°-30°)	2232.9	8.3	B3/2500		
BM (30°-60°)	6213.8	23.1	B4/8500		
BH (60°-80°)	4890.1	18.2	B4/5000		G4/5000
BVH (80°-90°)	123.5	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 I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4
2.5°	5034.7	5040.4	5040.4	5036.1	5046.2	5037.6	5037.6	5033.3	5037.6	5033.3	5033.3
5°	5060.4	5067.6	5070.5	5069.0	5082.0	5074.8	5074.8	5069.0	5070.5	5066.2	5066.2
7.5°	5109.1	5119.1	5124.8	5132.0	5150.6	5142.0	5136.3	5119.1	5112.0	5100.5	5100.5
10°	5124.8	5136.3	5154.8	5192.0	5235.0	5236.4	5219.3	5176.4	5143.4	5117.7	5113.4
12.5°	5076.2	5091.9	5130.5	5206.4	5302.2	5340.9	5313.7	5242.2	5177.8	5132.0	5124.8
15°	5014.7	5031.8	5090.5	5205.0	5346.6	5436.7	5433.8	5339.4	5236.4	5164.9	5153.4
17.5°	4918.8	4936.0	5020.3	5180.7	5380.9	5529.7	5569.7	5472.5	5328.0	5232.1	5216.4
20°	4745.6	4761.4	4878.7	5103.4	5392.3	5628.5	5732.9	5647.0	5466.7	5336.6	5312.3
22.5°	4521.1	4545.4	4682.7	4970.3	5365.2	5731.5	5918.9	5860.2	5628.5	5448.2	5415.3
25°	4280.7	4306.4	4466.7	4807.2	5295.0	5805.8	6139.2	6102.0	5811.5	5587.0	5541.2
27.5°	4073.2	4100.4	4275.0	4645.5	5186.4	5834.5	6356.6	6375.3	6033.4	5740.0	5691.4
30°	3910.2	3935.9	4121.9	4515.3	5046.2	5805.8	6547.0	6675.7	6259.4	5873.0	5802.9
32.5°	3731.3	3764.2	3960.2	4356.6	4880.1	5737.1	6712.9	7000.5	6521.3	6016.1	5927.5
35°	3505.3	3535.3	3741.4	4139.1	4662.7	5627.0	6851.7	7361.0	6896.1	6233.6	6134.9
37.5°	3230.6	3259.2	3463.8	3867.2	4446.7	5472.5	6957.6	7767.3	7342.5	6547.0	6415.4
40°	2954.5	2981.6	3173.3	3563.9	4187.7	5275.1	6994.8	8165.0	7854.7	6977.6	6837.4
42.5°	2701.2	2725.5	2901.5	3264.9	3897.3	5023.2	6946.1	8511.3	8313.9	7278.0	7097.8
45°	2468.0	2489.4	2645.4	2984.5	3595.4	4717.0	6800.2	8883.4	8860.4	7492.6	7249.4
47.5°	2201.9	2223.3	2385.0	2712.7	3293.5	4358.0	6552.7	9249.6	9620.1	7979.1	7698.7
50°	1877.1	1895.7	2061.7	2399.3	2980.2	3976.0	6209.3	9537.1	10578.7	8715.9	8364.0
52.5°	1492.2	1512.3	1673.9	2011.6	2608.2	3565.4	5757.2	9724.6	11686.1	9791.8	9358.4
55°	1110.3	1124.5	1264.7	1568.0	2147.5	3097.5	5190.6	9777.5	12942.3	11262.6	10720.4
57.5°	805.4	814.1	904.3	1130.3	1628.1	2512.4	4502.4	9640.1	14437.3	13148.3	12465.8
60°	652.4	655.3	682.4	782.6	1131.7	1851.4	3671.2	9168.0	16059.8	15579.1	14719.2
62.5°	592.3	592.3	599.4	626.7	765.5	1221.8	2665.4	8189.4	17799.5	18650.8	17499.1
65°	550.8	550.8	553.7	566.5	603.7	778.3	1682.5	6595.6	19266.0	22249.1	20792.6
67.5°	513.6	515.1	513.6	517.9	539.4	575.1	975.7	4555.4	20055.8	25977.5	24405.1
70°	475.0	477.9	470.7	470.7	487.9	489.3	610.9	2498.0	19400.5	29102.2	28688.7
72.5°	429.2	433.5	422.1	419.2	432.0	426.4	459.3	1198.9	16656.4	30035.1	31122.4
75°	389.2	394.8	369.1	361.9	361.9	357.7	373.4	615.2	10810.5	24501.0	26206.4
77.5°	353.4	364.8	323.4	300.4	294.7	281.9	304.7	376.3	4728.5	11503.0	11264.0
80°	291.8	307.6	266.1	238.9	228.9	214.6	240.4	263.2	1406.4	2671.1	2558.1
82.5°	217.5	224.6	188.8	170.3	161.6	151.7	180.3	183.2	457.9	945.7	1068.8
85°	138.8	141.7	115.9	100.1	95.8	91.5	114.5	100.1	174.6	695.4	1010.0
87.5°	48.7	55.8	44.4	40.1	42.9	35.8	52.9	30.0	48.7	490.8	608.0
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)