

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: P965728

Luminaire Tested: **NVN-SB4A-827-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965728  
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-SB4A-827-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

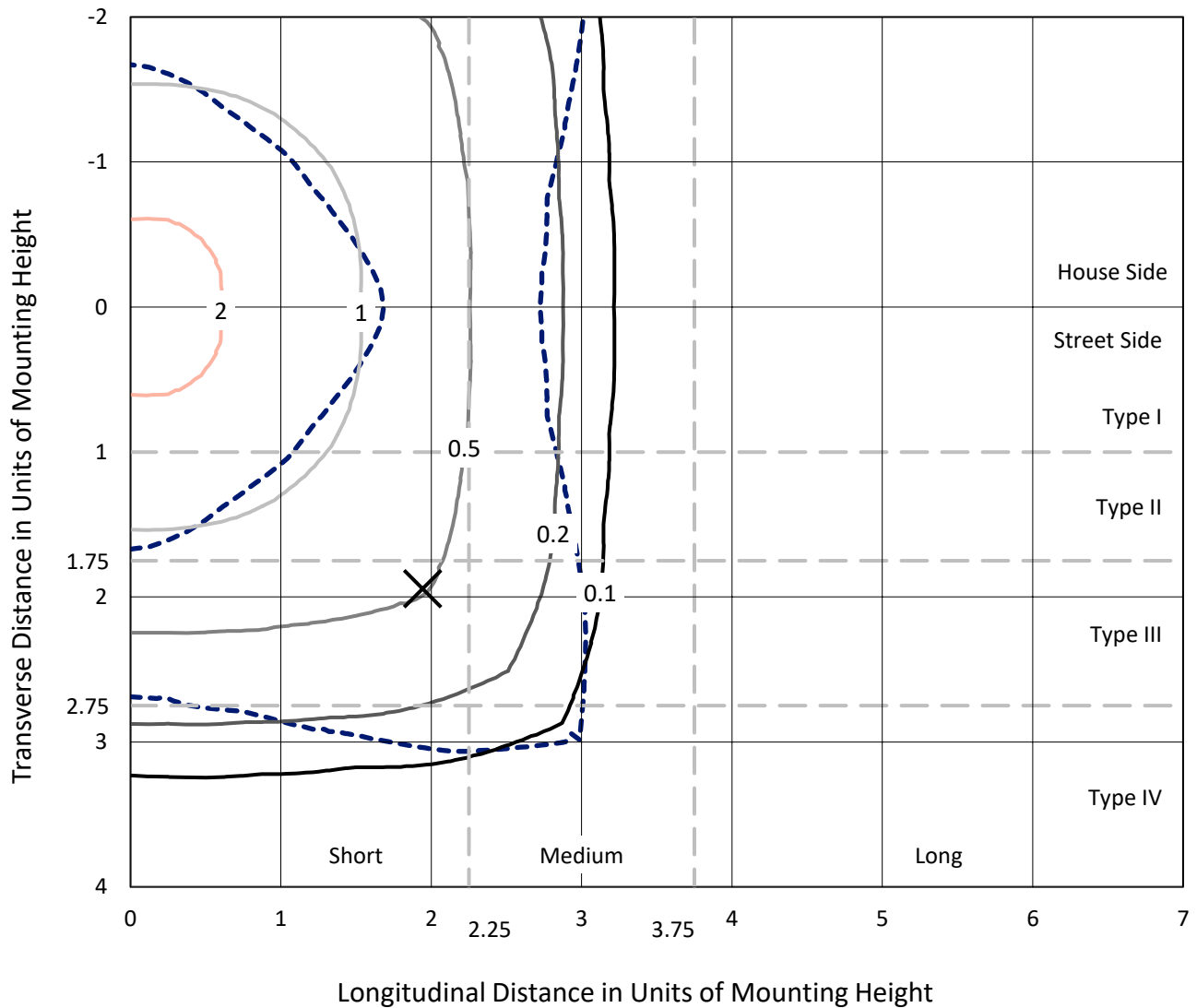
Lumens per Lamp: N/A  
Luminaire Lumens: 16781.3 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

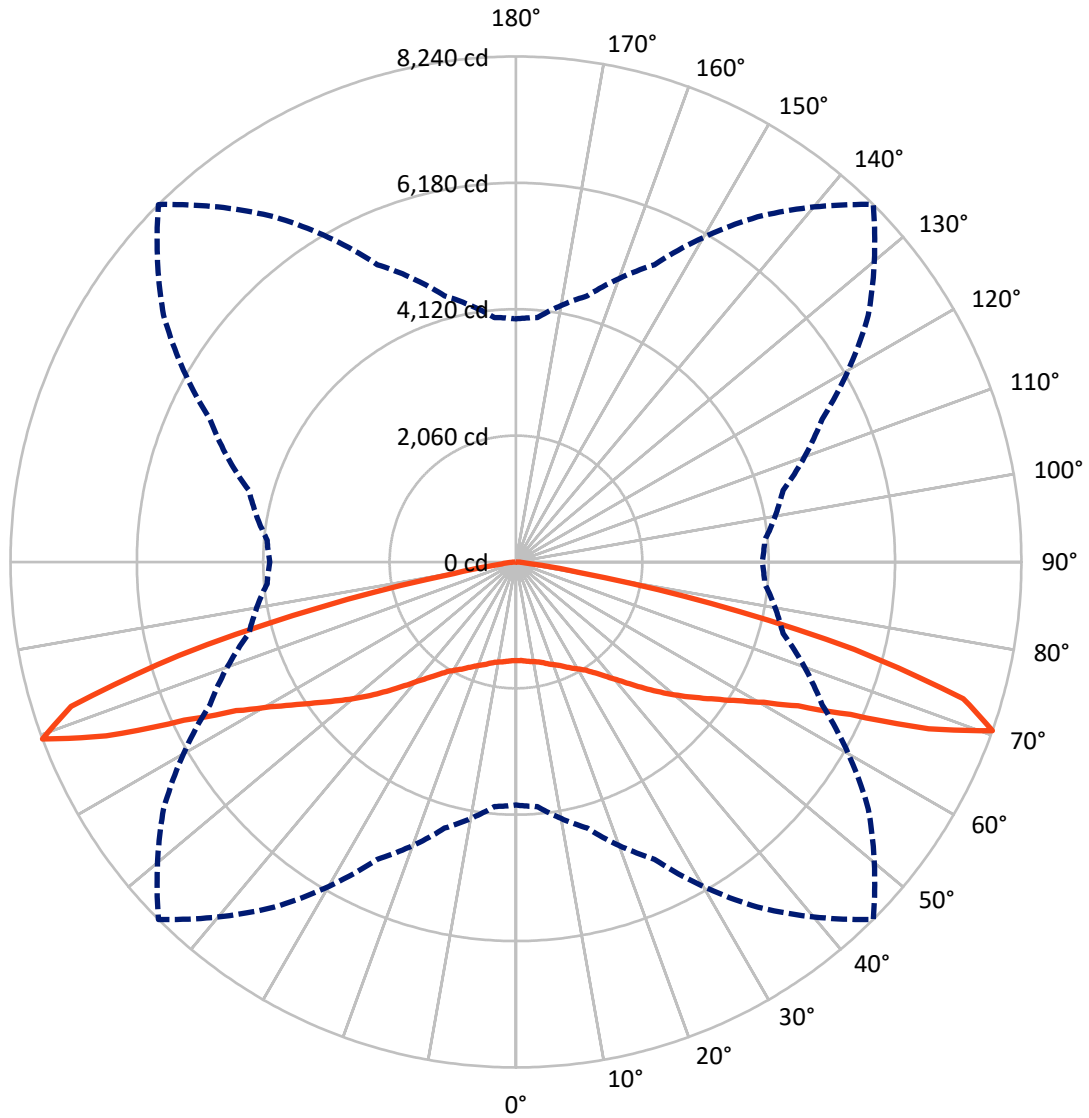
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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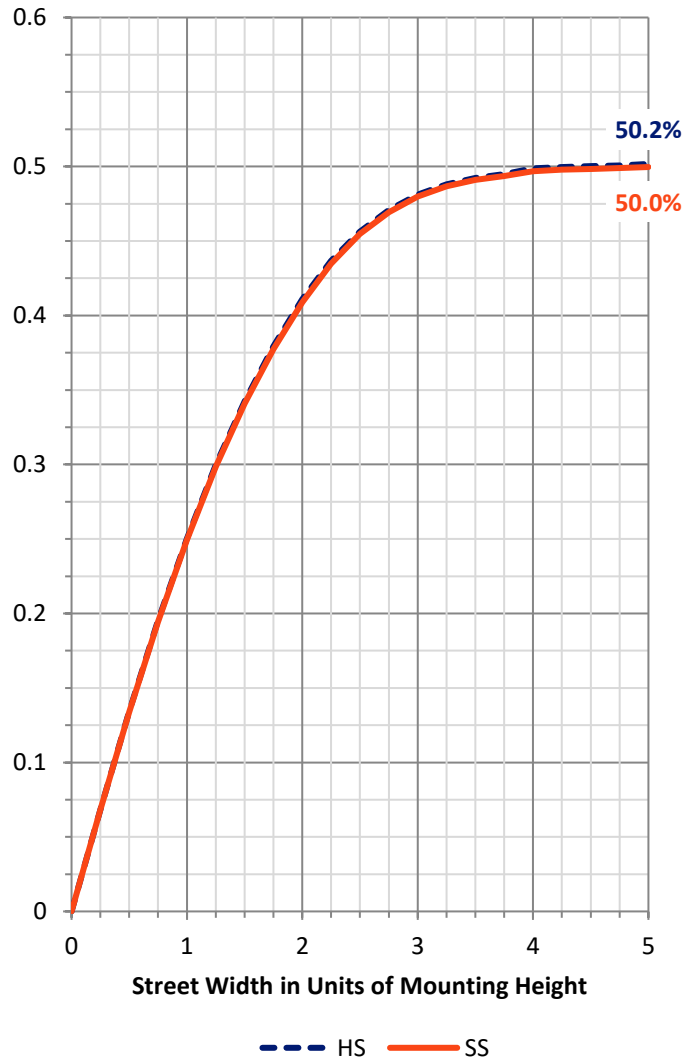
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8390.6	0.0	8390.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8390.6	0.0	8390.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16781.3	0.0	16781.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	0.9
10°-20°	484.3	2.9
20°-30°	865.4	5.2
30°-40°	1402.8	8.4
40°-50°	2285.0	13.6
50°-60°	3483.8	20.8
60°-70°	5182.8	30.9
70°-80°	2824.8	16.8
80°-90°	96.2	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°	16781.3	100.0
0°-180°	16781.3	100.0

**Coefficient of Utilization**



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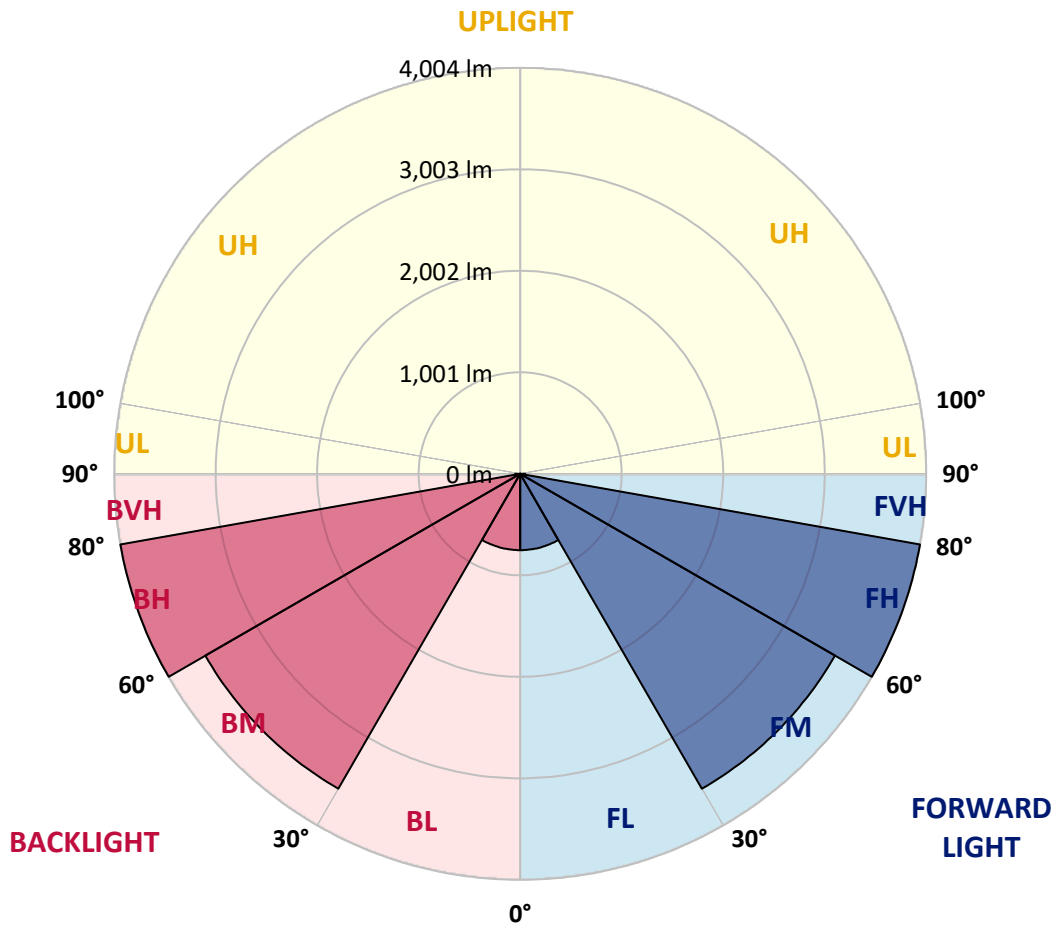
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.9	4.5			
FM (30°-60°)	3585.8	21.4			
FH (60°-80°)	4003.8	23.9			G2/5000
FVH (80°-90°)	48.1	0.3			G1/100
BL (0°-30°)	752.9	4.5	B2/1000		
BM (30°-60°)	3585.8	21.4	B3/5000		
BH (60°-80°)	4003.8	23.9	B4/5000		G2/5000
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1615.1	1616.7	1613.4	1611.7	1610.0	1607.5	1608.3	1612.5	1615.9	1615.1	1615.9
5°	1628.5	1630.3	1627.7	1626.9	1623.5	1622.7	1622.7	1626.9	1629.3	1627.7	1628.5
7.5°	1643.7	1646.3	1642.0	1641.1	1639.5	1637.8	1636.9	1641.1	1643.7	1643.7	1643.7
10°	1658.0	1660.6	1657.2	1654.7	1653.0	1653.0	1651.3	1654.7	1658.9	1658.0	1658.0
12.5°	1673.2	1674.8	1671.5	1669.8	1669.8	1672.4	1669.8	1671.5	1674.8	1673.2	1672.4
15°	1691.8	1692.6	1691.8	1694.2	1698.4	1706.9	1699.3	1697.6	1699.3	1695.1	1695.1
17.5°	1717.0	1718.7	1722.1	1727.9	1733.9	1749.1	1735.5	1731.3	1731.3	1722.9	1722.9
20°	1748.1	1750.7	1755.7	1765.9	1773.5	1787.8	1774.3	1768.4	1765.9	1754.9	1754.9
22.5°	1781.0	1785.2	1792.8	1806.3	1819.8	1833.2	1819.8	1809.6	1802.1	1787.8	1786.9
25°	1819.0	1824.0	1835.8	1857.7	1876.3	1895.6	1879.6	1859.4	1844.2	1824.0	1823.2
27.5°	1872.9	1878.7	1893.1	1920.0	1943.6	1960.5	1945.3	1919.2	1898.1	1873.7	1872.9
30°	1948.7	1954.6	1971.4	2000.1	2016.1	2027.0	2016.9	1996.7	1971.4	1943.6	1943.6
32.5°	2046.4	2054.0	2072.5	2099.5	2102.9	2104.5	2101.1	2091.1	2072.5	2038.8	2039.6
35°	2170.2	2178.6	2199.8	2221.7	2218.3	2221.7	2216.6	2213.2	2199.8	2161.0	2161.0
37.5°	2321.9	2332.0	2353.9	2370.7	2362.3	2358.1	2358.9	2359.9	2352.3	2309.2	2309.2
40°	2498.0	2511.5	2527.4	2545.2	2530.8	2518.2	2526.6	2533.4	2526.6	2482.9	2482.9
42.5°	2679.1	2698.5	2715.3	2740.6	2728.9	2712.9	2724.7	2732.2	2717.9	2670.7	2674.0
45°	2880.5	2899.0	2920.9	2958.9	2950.4	2933.5	2950.4	2952.1	2927.7	2872.0	2878.0
47.5°	3088.5	3107.9	3140.8	3191.3	3188.0	3169.5	3191.3	3179.5	3148.4	3081.9	3077.7
50°	3285.7	3312.7	3363.2	3434.0	3440.7	3418.0	3447.5	3424.7	3372.5	3289.1	3287.4
52.5°	3471.1	3499.8	3579.7	3675.8	3700.2	3670.7	3710.3	3670.7	3592.4	3485.4	3475.3
55°	3665.7	3697.7	3792.9	3918.5	3967.3	3945.4	3982.4	3922.7	3811.5	3681.7	3664.0
57.5°	3894.8	3914.2	4027.9	4177.1	4259.6	4264.7	4281.5	4180.5	4045.7	3898.2	3878.0
60°	4143.4	4170.3	4294.1	4472.8	4603.4	4645.5	4627.8	4477.8	4321.1	4151.8	4124.8
62.5°	4461.8	4491.3	4639.6	4853.6	5060.0	5164.5	5095.4	4878.1	4684.2	4481.2	4445.8
65°	4725.6	4758.4	5026.3	5408.0	5783.7	5993.5	5820.0	5419.8	5071.0	4784.5	4737.3
67.5°	4534.3	4574.8	4995.1	5696.1	6630.4	7256.4	6662.4	5782.0	5098.8	4710.4	4652.3
70°	3963.1	4001.0	4491.3	5348.1	6868.8	8240.4	7012.0	5505.7	4507.3	4072.6	4014.5
72.5°	2631.1	2753.3	3249.5	4277.3	6133.3	7625.4	6194.0	4190.5	3014.4	2625.2	2540.2
75°	872.8	970.6	1309.2	2217.5	4108.0	5702.8	3910.9	1962.2	1037.1	746.4	706.0
77.5°	219.9	253.6	349.6	634.4	1638.7	3247.0	1475.2	518.1	282.3	197.1	176.1
80°	107.0	118.0	168.5	211.5	410.3	1032.1	385.0	198.8	133.1	102.8	94.4
82.5°	58.9	59.9	95.2	119.6	152.5	267.1	158.4	116.2	76.7	62.3	62.3
85°	36.2	35.4	50.5	64.1	64.1	95.2	75.8	64.1	43.8	38.7	40.5
87.5°	14.3	14.3	18.6	20.2	17.7	24.4	19.4	21.0	16.8	16.0	16.8
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)