

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: P967838

Luminaire Tested: **NVN-SB5A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20429.3 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

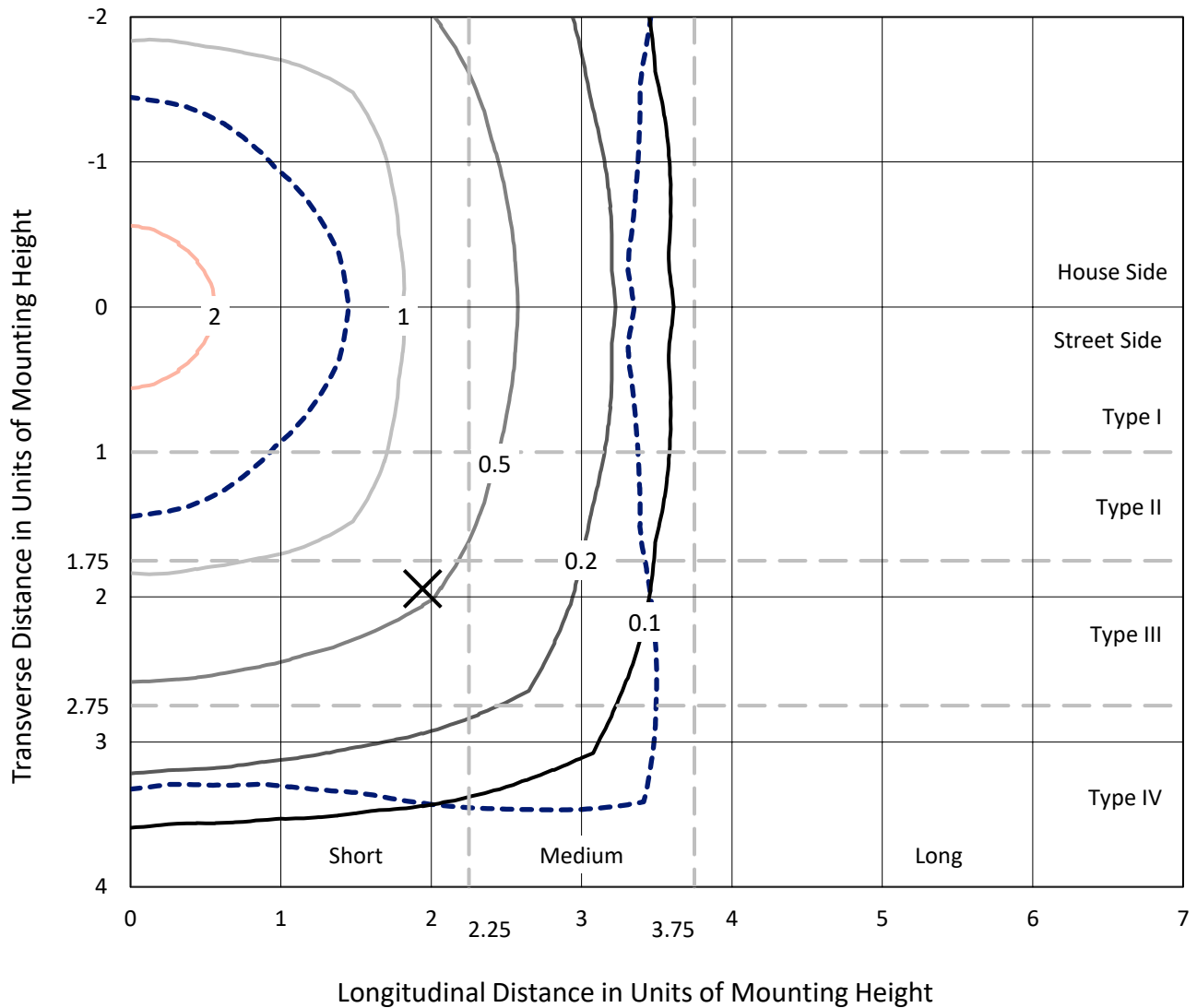
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

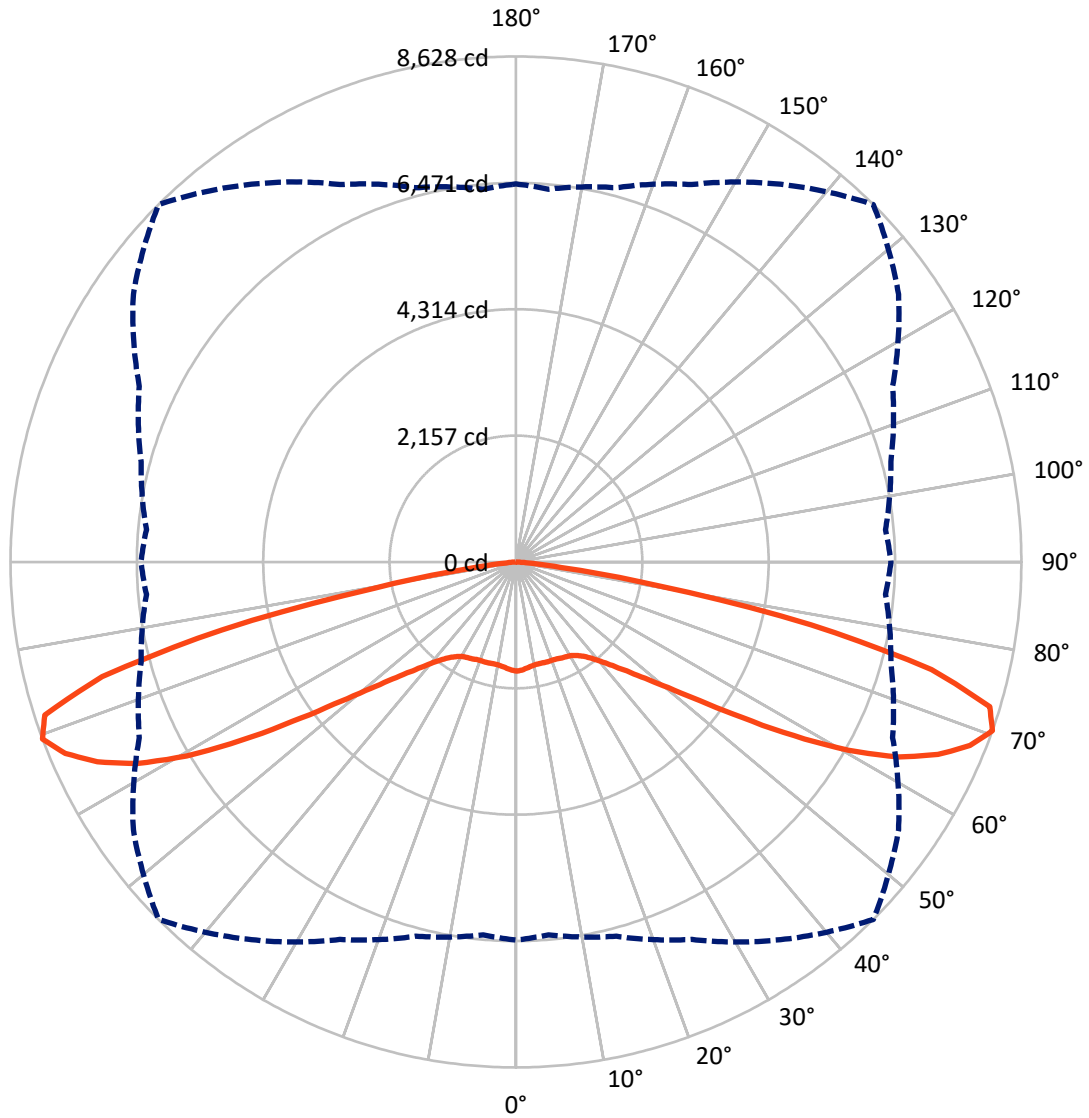
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	10214.6	0.0	10214.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10214.6	0.0	10214.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20429.3	0.0	20429.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	0.8
10°-20°	509.0	2.5
20°-30°	847.1	4.1
30°-40°	1281.0	6.3
40°-50°	2128.8	10.4
50°-60°	4016.9	19.7
60°-70°	6782.7	33.2
70°-80°	4457.0	21.8
80°-90°	233.5	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°	20429.3	100.0
0°-180°	20429.3	100.0

Coefficient of Utilization



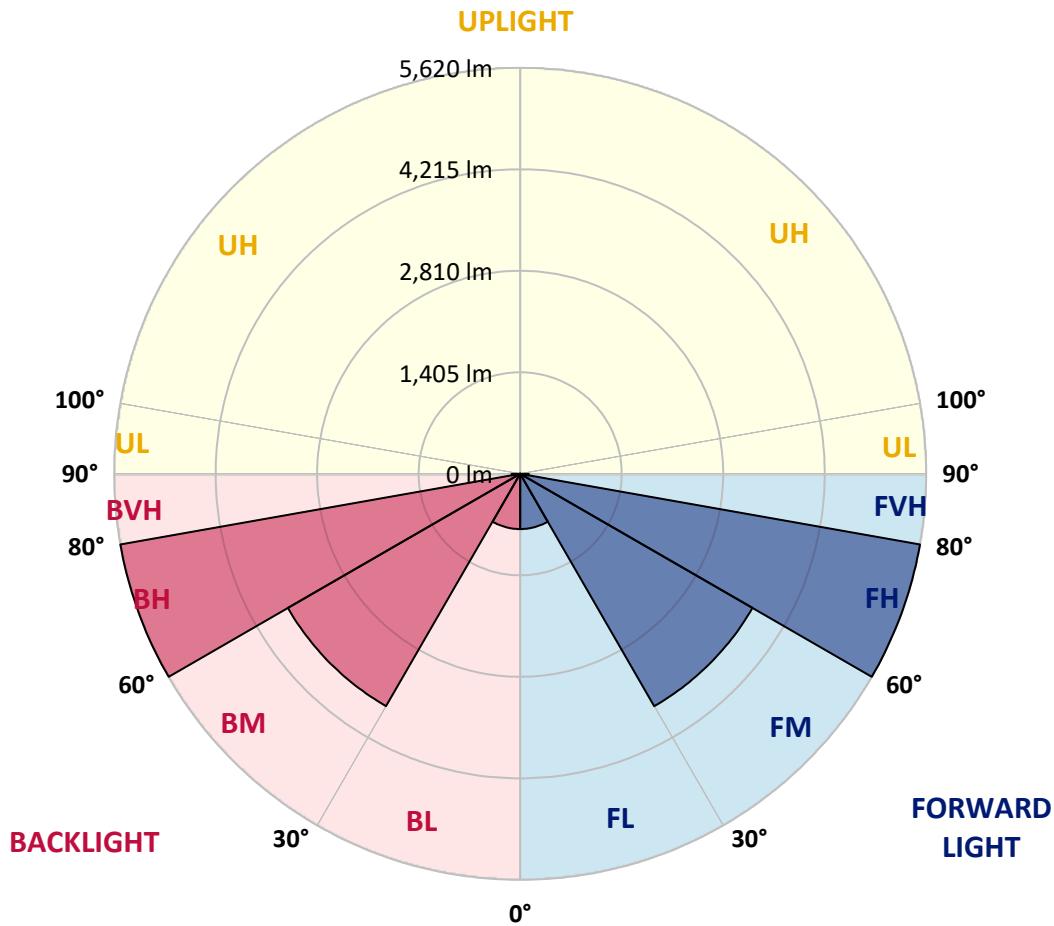
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.7	3.7			
FM (30°-60°)	3713.3	18.2			
FH (60°-80°)	5619.8	27.5			G3/7500
FVH (80°-90°)	116.7	0.6			G2/225
BL (0°-30°)	764.7	3.7	B2/1000		
BM (30°-60°)	3713.3	18.2	B3/5000		
BH (60°-80°)	5619.8	27.5	B5		G3/7500
BVH (80°-90°)	116.7	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6
2.5°	1851.9	1857.2	1855.0	1850.8	1850.8	1847.7	1850.8	1852.9	1856.2	1858.2	1857.2
5°	1827.5	1831.7	1830.6	1827.5	1828.5	1825.3	1827.5	1830.6	1832.8	1833.8	1833.8
7.5°	1806.3	1810.5	1808.3	1803.1	1803.1	1799.9	1800.9	1804.1	1807.3	1808.3	1808.3
10°	1800.9	1805.1	1798.8	1790.3	1787.1	1782.9	1783.9	1787.1	1793.4	1796.6	1796.6
12.5°	1803.1	1806.3	1799.9	1787.1	1783.9	1779.7	1779.7	1782.9	1791.4	1795.6	1796.6
15°	1809.4	1812.6	1803.1	1789.2	1786.1	1782.9	1781.8	1786.1	1795.6	1803.1	1804.1
17.5°	1821.1	1824.3	1809.4	1790.3	1786.1	1787.1	1786.1	1789.2	1804.1	1817.9	1817.9
20°	1831.7	1833.8	1813.6	1790.3	1786.1	1787.1	1786.1	1792.4	1811.5	1830.6	1831.7
22.5°	1834.9	1837.0	1817.9	1797.7	1794.6	1795.6	1794.6	1800.9	1819.0	1838.0	1838.0
25°	1836.0	1839.2	1824.3	1808.3	1813.6	1815.8	1813.6	1814.8	1828.5	1845.5	1844.5
27.5°	1851.9	1856.2	1842.3	1828.5	1831.7	1830.6	1833.8	1837.0	1847.7	1864.6	1860.4
30°	1884.8	1887.9	1876.3	1862.5	1860.4	1852.9	1862.5	1873.1	1884.8	1899.6	1896.5
32.5°	1939.0	1945.3	1930.5	1915.6	1906.0	1901.8	1909.3	1927.3	1943.2	1959.1	1952.7
35°	2029.2	2033.5	2019.7	1992.1	1975.1	1975.1	1981.4	2004.8	2030.3	2050.4	2043.0
37.5°	2156.6	2161.9	2137.5	2104.6	2079.1	2079.1	2087.6	2112.0	2150.2	2178.9	2168.3
40°	2311.7	2319.1	2288.3	2254.3	2229.9	2225.7	2236.2	2263.9	2300.0	2336.1	2324.4
42.5°	2498.5	2507.0	2466.7	2436.9	2417.9	2417.9	2423.2	2448.6	2481.5	2526.1	2522.9
45°	2737.5	2752.3	2697.1	2667.4	2649.3	2653.6	2656.8	2679.0	2708.8	2759.8	2757.7
47.5°	3022.0	3036.9	2978.5	2947.7	2944.5	2964.7	2952.0	2967.9	2983.8	3042.2	3025.2
50°	3344.9	3370.3	3330.0	3327.9	3334.2	3371.4	3341.7	3350.2	3332.1	3369.3	3346.9
52.5°	3739.8	3777.0	3769.6	3782.4	3853.5	3930.0	3862.0	3832.3	3764.3	3776.0	3736.6
55°	4218.8	4275.1	4285.6	4362.1	4523.5	4679.6	4535.2	4415.2	4270.8	4244.2	4202.8
57.5°	4763.5	4808.1	4859.0	5015.1	5316.7	5593.8	5316.7	5051.3	4824.1	4769.8	4731.6
60°	5349.7	5404.8	5453.7	5684.1	6132.3	6522.0	6123.8	5702.2	5401.6	5328.4	5264.7
62.5°	5979.3	6050.5	6084.4	6340.3	6862.8	7327.9	6870.3	6359.5	6026.1	5947.5	5883.8
65°	6583.5	6641.9	6680.1	6953.1	7452.2	7918.2	7486.1	6982.8	6639.8	6536.8	6485.8
67.5°	6864.9	6896.8	6990.2	7299.2	7825.9	8357.8	7915.0	7332.1	6948.8	6768.3	6770.4
70°	6452.9	6388.1	6613.3	7108.1	7870.5	8627.6	7972.4	7093.2	6623.9	6330.8	6400.9
72.5°	4986.5	4875.0	5265.7	6112.1	7360.8	8455.5	7411.8	6159.8	5509.0	4914.3	5061.9
75°	2713.1	2586.7	3126.1	4196.5	5870.0	7329.0	6004.8	4316.5	3480.8	2692.9	2868.1
77.5°	765.6	717.8	1153.2	2030.3	3530.7	5145.8	3666.6	2074.9	1367.7	811.3	901.5
80°	234.6	227.2	307.9	611.6	1499.4	2464.6	1440.9	619.1	391.9	247.4	261.2
82.5°	139.1	127.4	152.9	223.0	382.2	774.1	371.7	232.6	186.9	125.3	135.9
85°	79.6	74.3	90.3	108.3	128.5	164.6	107.2	110.4	99.8	66.9	70.1
87.5°	32.9	29.7	35.1	34.0	29.7	38.2	28.7	34.0	40.4	26.5	24.4
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)