

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: P884242

Luminaire Tested: **NVN-SB5A-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18347 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

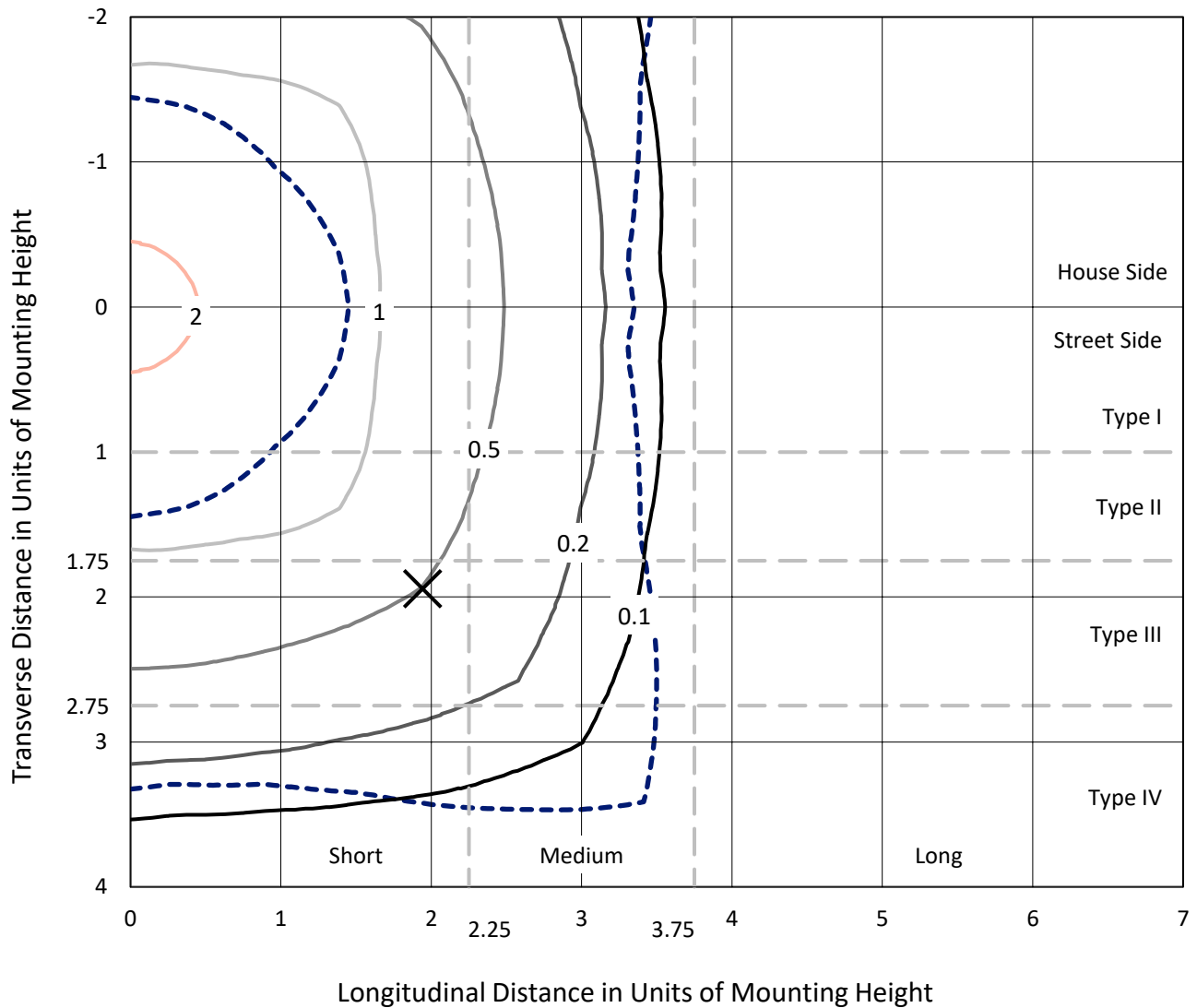
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

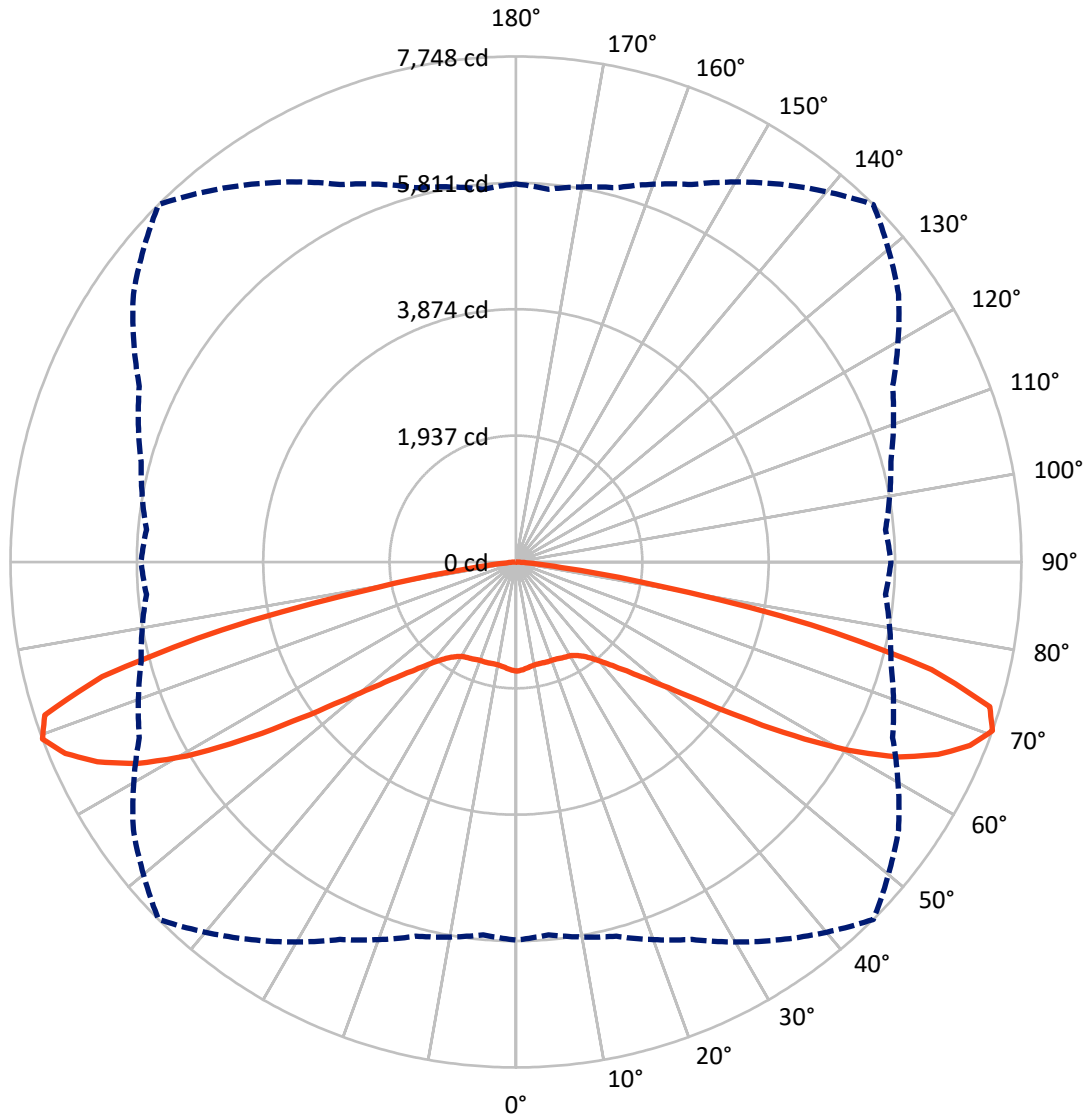
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	9173.5	0.0	9173.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9173.5	0.0	9173.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18347.0	0.0	18347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	0.8
10°-20°	457.1	2.5
20°-30°	760.7	4.1
30°-40°	1150.5	6.3
40°-50°	1911.8	10.4
50°-60°	3607.5	19.7
60°-70°	6091.4	33.2
70°-80°	4002.7	21.8
80°-90°	209.7	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°	18347.0	100.0
0°-180°	18347.0	100.0



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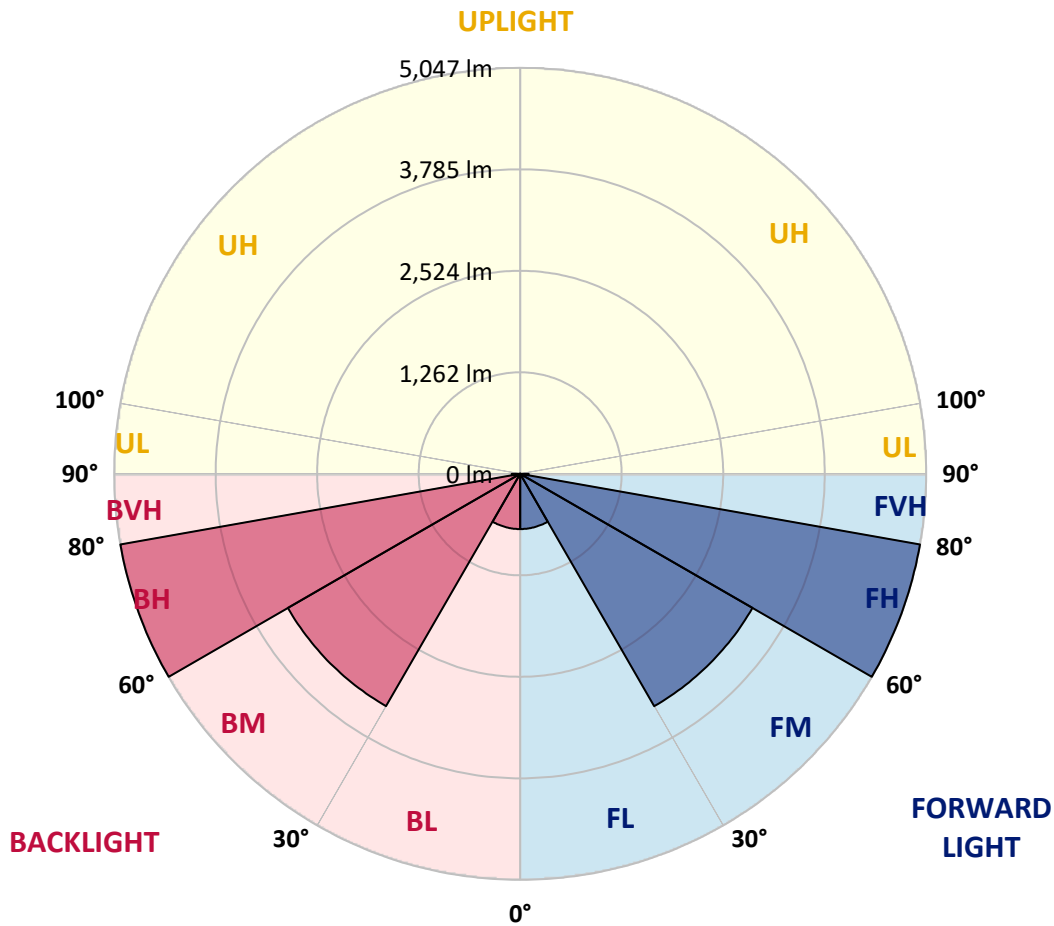
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.8	3.7			
FM	(30°-60°)	3334.9	18.2			
FH	(60°-80°)	5047.0	27.5			G3/7500
FVH	(80°-90°)	104.8	0.6			G2/225
BL	(0°-30°)	686.8	3.7	B2/1000		
BM	(30°-60°)	3334.9	18.2	B3/5000		
BH	(60°-80°)	5047.0	27.5	B5		G3/7500
BVH	(80°-90°)	104.8	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°	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6	1673.6
2.5°	1663.1	1667.9	1666.0	1662.2	1662.2	1659.3	1662.2	1664.1	1666.9	1668.8	1667.9
5°	1641.2	1645.0	1644.1	1641.2	1642.1	1639.3	1641.2	1644.1	1646.0	1646.9	1646.9
7.5°	1622.1	1625.9	1624.0	1619.3	1619.3	1616.4	1617.4	1620.2	1623.1	1624.0	1624.0
10°	1617.4	1621.2	1615.4	1607.8	1605.0	1601.1	1602.1	1605.0	1610.7	1613.5	1613.5
12.5°	1619.3	1622.1	1616.4	1605.0	1602.1	1598.3	1598.3	1601.1	1608.8	1612.6	1613.5
15°	1625.0	1627.8	1619.3	1606.9	1604.0	1601.1	1600.2	1604.0	1612.6	1619.3	1620.2
17.5°	1635.5	1638.3	1625.0	1607.8	1604.0	1605.0	1604.0	1606.9	1620.2	1632.6	1632.6
20°	1645.0	1646.9	1628.8	1607.8	1604.0	1605.0	1604.0	1609.7	1626.9	1644.1	1645.0
22.5°	1647.9	1649.8	1632.6	1614.5	1611.6	1612.6	1611.6	1617.4	1633.6	1650.7	1650.7
25°	1648.8	1651.7	1638.3	1624.0	1628.8	1630.7	1628.8	1629.7	1642.1	1657.4	1656.5
27.5°	1663.1	1666.9	1654.5	1642.1	1645.0	1644.1	1646.9	1649.8	1659.3	1674.6	1670.8
30°	1692.7	1695.5	1685.1	1672.7	1670.8	1664.1	1672.7	1682.2	1692.7	1706.0	1703.2
32.5°	1741.3	1747.0	1733.7	1720.3	1711.8	1707.9	1714.6	1730.8	1745.1	1759.4	1753.7
35°	1822.4	1826.2	1813.8	1789.0	1773.7	1773.7	1779.5	1800.4	1823.3	1841.5	1834.8
37.5°	1936.8	1941.6	1919.7	1890.1	1867.2	1867.2	1874.8	1896.8	1931.1	1956.8	1947.3
40°	2076.0	2082.7	2055.1	2024.6	2002.6	1998.8	2008.3	2033.1	2065.6	2098.0	2087.5
42.5°	2243.9	2251.5	2215.3	2188.6	2171.4	2171.4	2176.2	2199.1	2228.6	2268.7	2265.8
45°	2458.5	2471.8	2422.2	2395.5	2379.3	2383.1	2386.0	2406.0	2432.7	2478.5	2476.6
47.5°	2714.0	2727.4	2674.9	2647.3	2644.4	2662.5	2651.1	2665.4	2679.7	2732.1	2716.9
50°	3003.9	3026.8	2990.6	2988.7	2994.4	3027.8	3001.1	3008.7	2992.5	3025.9	3005.8
52.5°	3358.7	3392.1	3385.4	3396.8	3460.7	3529.4	3468.3	3441.6	3380.6	3391.1	3355.8
55°	3788.8	3839.3	3848.8	3917.5	4062.5	4202.6	4072.9	3965.2	3835.5	3811.6	3774.5
57.5°	4278.0	4318.0	4363.8	4504.0	4774.8	5023.7	4774.8	4536.4	4332.3	4283.7	4249.4
60°	4804.4	4854.0	4897.8	5104.8	5507.2	5857.2	5499.6	5121.0	4851.1	4785.3	4728.1
62.5°	5369.9	5433.8	5464.3	5694.1	6163.3	6581.0	6170.0	5711.3	5411.8	5341.3	5284.0
65°	5912.5	5964.9	5999.3	6244.4	6692.6	7111.2	6723.1	6271.1	5963.0	5870.5	5824.8
67.5°	6165.2	6193.8	6277.7	6555.2	7028.2	7506.0	7108.3	6584.8	6240.5	6078.4	6080.3
70°	5795.2	5737.0	5939.2	6383.6	7068.3	7748.2	7159.8	6370.2	5948.7	5685.5	5748.5
72.5°	4478.2	4378.1	4729.0	5489.1	6610.5	7593.7	6656.3	5532.0	4947.4	4413.4	4545.9
75°	2436.5	2323.0	2807.5	3768.7	5271.7	6581.9	5392.8	3876.5	3126.0	2418.4	2575.7
77.5°	687.6	644.7	1035.6	1823.3	3170.8	4621.3	3292.9	1863.4	1228.3	728.6	809.6
80°	210.8	204.1	276.6	549.3	1346.5	2213.4	1294.1	556.0	351.9	222.2	234.6
82.5°	124.9	114.4	137.3	200.3	343.3	695.2	333.8	208.8	167.8	112.5	122.1
85°	71.5	66.8	81.1	97.3	115.4	147.8	96.3	99.2	89.6	60.1	62.9
87.5°	29.6	26.7	31.5	30.5	26.7	34.3	25.7	30.5	36.2	23.8	21.9
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)