

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: P961016

Luminaire Tested: **NVN-SB1D-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961016
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-SB1D-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

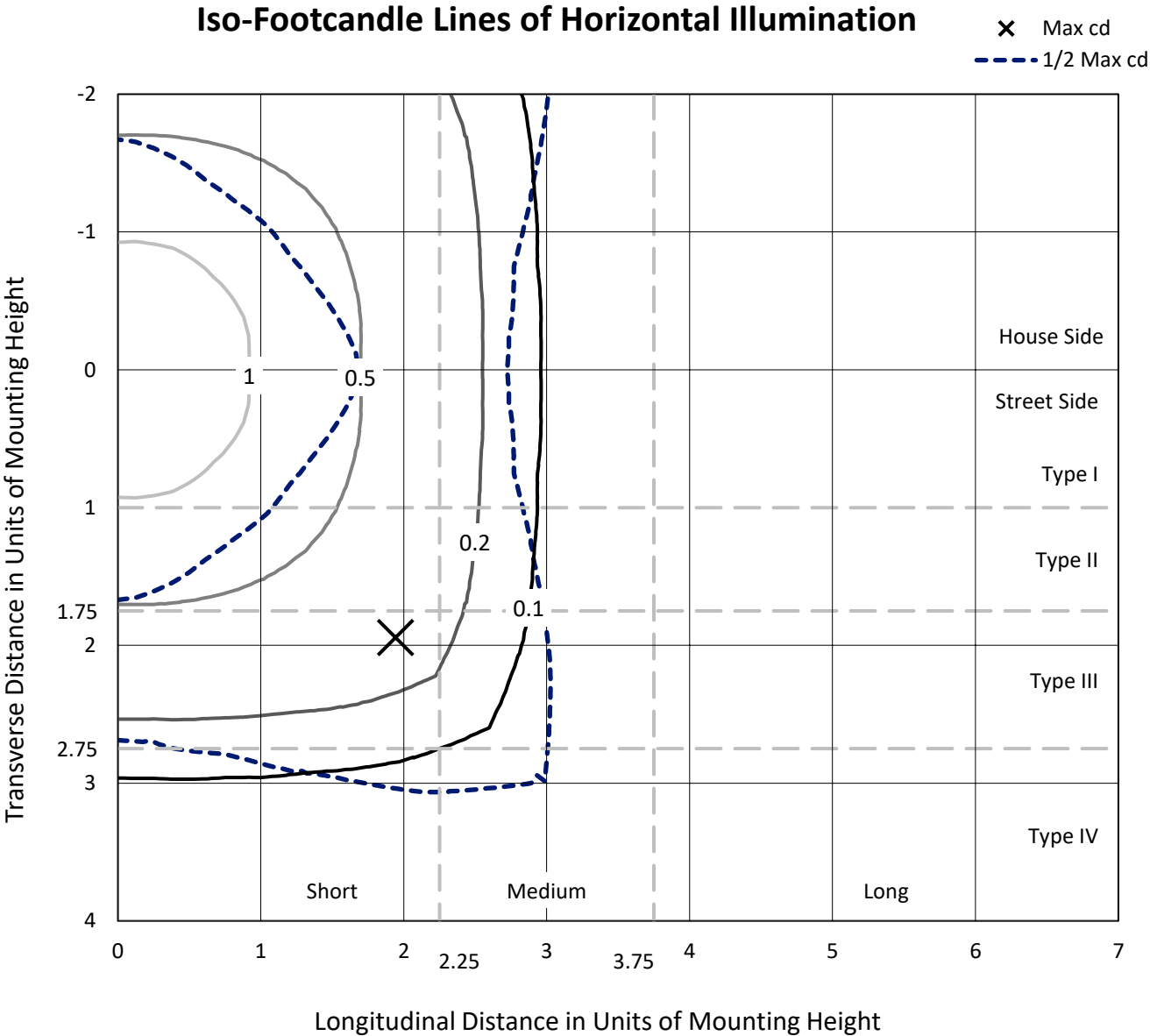
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9818.5 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 79.6
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



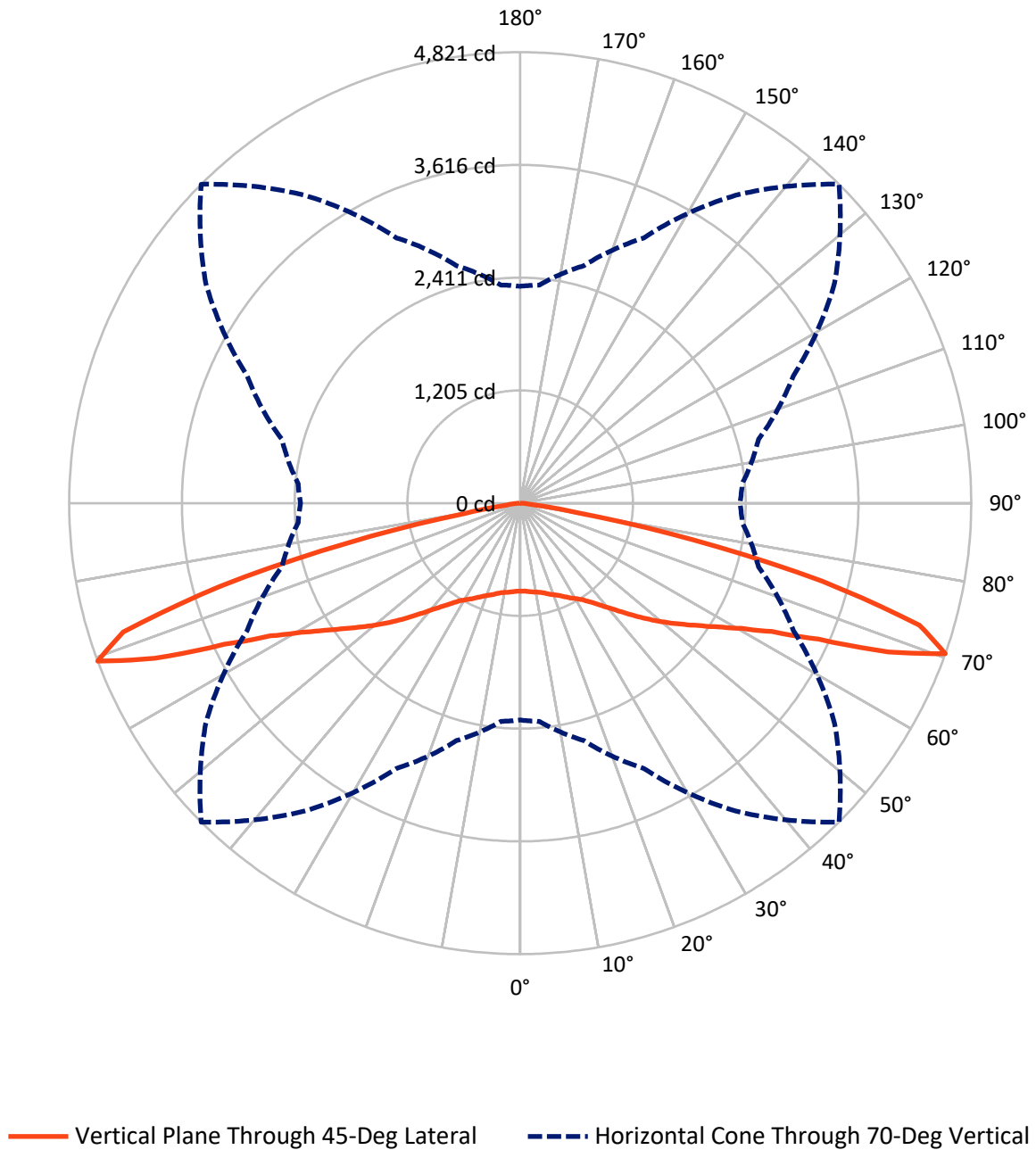
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4909.2	0.0	4909.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4909.2	0.0	4909.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9818.5	0.0	9818.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	0.9
10°-20°	283.3	2.9
20°-30°	506.3	5.2
30°-40°	820.8	8.4
40°-50°	1336.9	13.6
50°-60°	2038.3	20.8
60°-70°	3032.4	30.9
70°-80°	1652.8	16.8
80°-90°	56.3	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°	9818.5	100.0
0°-180°	9818.5	100.0

Coefficient of Utilization



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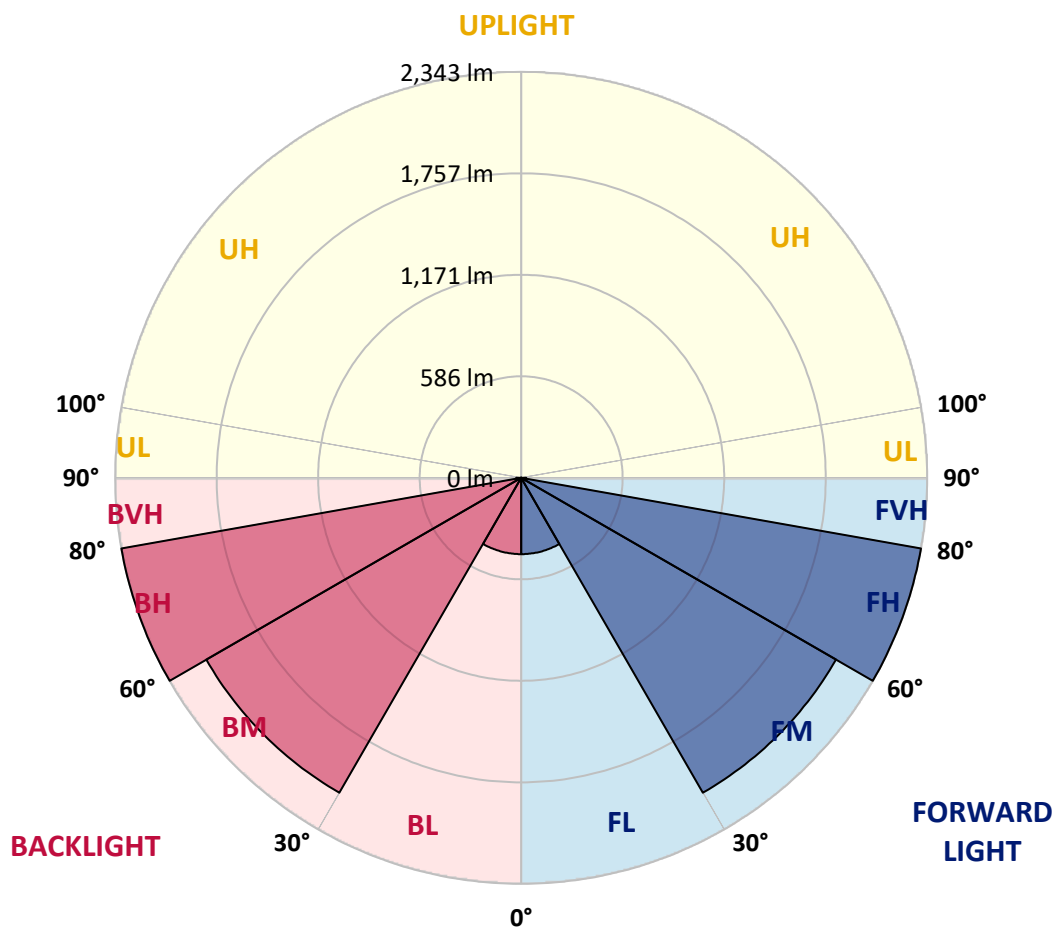
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.5	4.5			
FM	(30°-60°)	2098.0	21.4			
FH	(60°-80°)	2342.6	23.9			G2/5000
FVH	(80°-90°)	28.1	0.3			G1/100
BL	(0°-30°)	440.5	4.5	B1/500		
BM	(30°-60°)	2098.0	21.4	B2/2500		
BH	(60°-80°)	2342.6	23.9	B3/2500		G2/5000
BVH	(80°-90°)	28.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5
2.5°	944.9	946.0	943.9	943.0	942.0	940.5	941.0	943.5	945.5	944.9	945.5
5°	952.8	953.9	952.3	951.8	949.9	949.4	949.4	951.8	953.4	952.3	952.8
7.5°	961.7	963.2	960.7	960.2	959.2	958.3	957.8	960.2	961.7	961.7	961.7
10°	970.1	971.6	969.5	968.1	967.1	967.1	966.2	968.1	970.6	970.1	970.1
12.5°	979.0	979.9	978.0	977.0	977.0	978.5	977.0	978.0	979.9	979.0	978.5
15°	989.8	990.3	989.8	991.3	993.7	998.7	994.2	993.2	994.2	991.8	991.8
17.5°	1004.6	1005.5	1007.6	1011.0	1014.4	1023.4	1015.5	1013.0	1013.0	1008.1	1008.1
20°	1022.8	1024.3	1027.3	1033.2	1037.6	1046.0	1038.1	1034.6	1033.2	1026.7	1026.7
22.5°	1042.0	1044.5	1049.0	1056.9	1064.8	1072.7	1064.8	1058.8	1054.4	1046.0	1045.5
25°	1064.3	1067.2	1074.1	1086.9	1097.8	1109.0	1099.7	1087.9	1079.0	1067.2	1066.7
27.5°	1095.8	1099.2	1107.6	1123.4	1137.2	1147.1	1138.2	1122.9	1110.6	1096.2	1095.8
30°	1140.1	1143.6	1153.4	1170.2	1179.6	1186.0	1180.1	1168.2	1153.4	1137.2	1137.2
32.5°	1197.3	1201.7	1212.6	1228.4	1230.3	1231.3	1229.4	1223.4	1212.6	1192.9	1193.4
35°	1269.8	1274.7	1287.0	1299.8	1297.9	1299.8	1296.9	1294.9	1287.0	1264.3	1264.3
37.5°	1358.5	1364.4	1377.3	1387.1	1382.2	1379.8	1380.2	1380.7	1376.3	1351.2	1351.2
40°	1461.5	1469.4	1478.8	1489.1	1480.7	1473.3	1478.3	1482.3	1478.3	1452.6	1452.6
42.5°	1567.5	1578.8	1588.7	1603.5	1596.6	1587.2	1594.2	1598.6	1590.2	1562.6	1564.6
45°	1685.3	1696.2	1709.0	1731.1	1726.2	1716.4	1726.2	1727.2	1712.9	1680.4	1683.9
47.5°	1807.1	1818.5	1837.6	1867.2	1865.2	1854.4	1867.2	1860.3	1842.0	1803.2	1800.7
50°	1922.4	1938.2	1967.8	2009.2	2013.1	1999.8	2017.1	2003.8	1973.2	1924.4	1923.4
52.5°	2030.8	2047.6	2094.5	2150.7	2164.9	2147.7	2170.8	2147.7	2101.9	2039.2	2033.3
55°	2144.7	2163.5	2219.1	2292.6	2321.2	2308.4	2330.0	2295.1	2230.0	2154.1	2143.8
57.5°	2278.8	2290.2	2356.7	2443.9	2492.3	2495.2	2505.1	2446.0	2367.0	2280.8	2268.9
60°	2424.2	2440.0	2512.5	2616.9	2693.4	2718.0	2707.6	2619.9	2528.3	2429.1	2413.4
62.5°	2610.6	2627.8	2714.6	2839.8	2960.5	3021.7	2981.2	2854.0	2740.6	2621.8	2601.1
65°	2764.8	2784.1	2940.8	3164.1	3383.9	3506.7	3405.2	3171.0	2967.0	2799.4	2771.7
67.5°	2652.9	2676.6	2922.6	3332.7	3879.3	4245.5	3898.1	3383.0	2983.2	2755.9	2722.0
70°	2318.8	2340.9	2627.8	3129.1	4018.8	4821.3	4102.7	3221.3	2637.1	2382.8	2348.8
72.5°	1539.4	1610.9	1901.3	2502.6	3588.5	4461.5	3624.0	2451.8	1763.7	1536.0	1486.1
75°	510.7	567.8	766.0	1297.3	2403.5	3336.7	2288.2	1148.0	606.8	436.8	413.1
77.5°	128.6	148.4	204.6	371.2	958.8	1899.7	863.2	303.2	165.1	115.3	103.0
80°	62.6	69.0	98.6	123.7	240.1	603.8	225.3	116.3	77.9	60.2	55.2
82.5°	34.5	35.0	55.7	70.0	89.2	156.2	92.7	68.1	44.9	36.5	36.5
85°	21.2	20.7	29.6	37.4	37.4	55.7	44.4	37.4	25.6	22.7	23.7
87.5°	8.4	8.4	10.9	11.8	10.4	14.2	11.4	12.3	9.8	9.3	9.8
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)