

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: P881772

Luminaire Tested: **NVN-SB1B-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881772
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-SB1B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4988 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

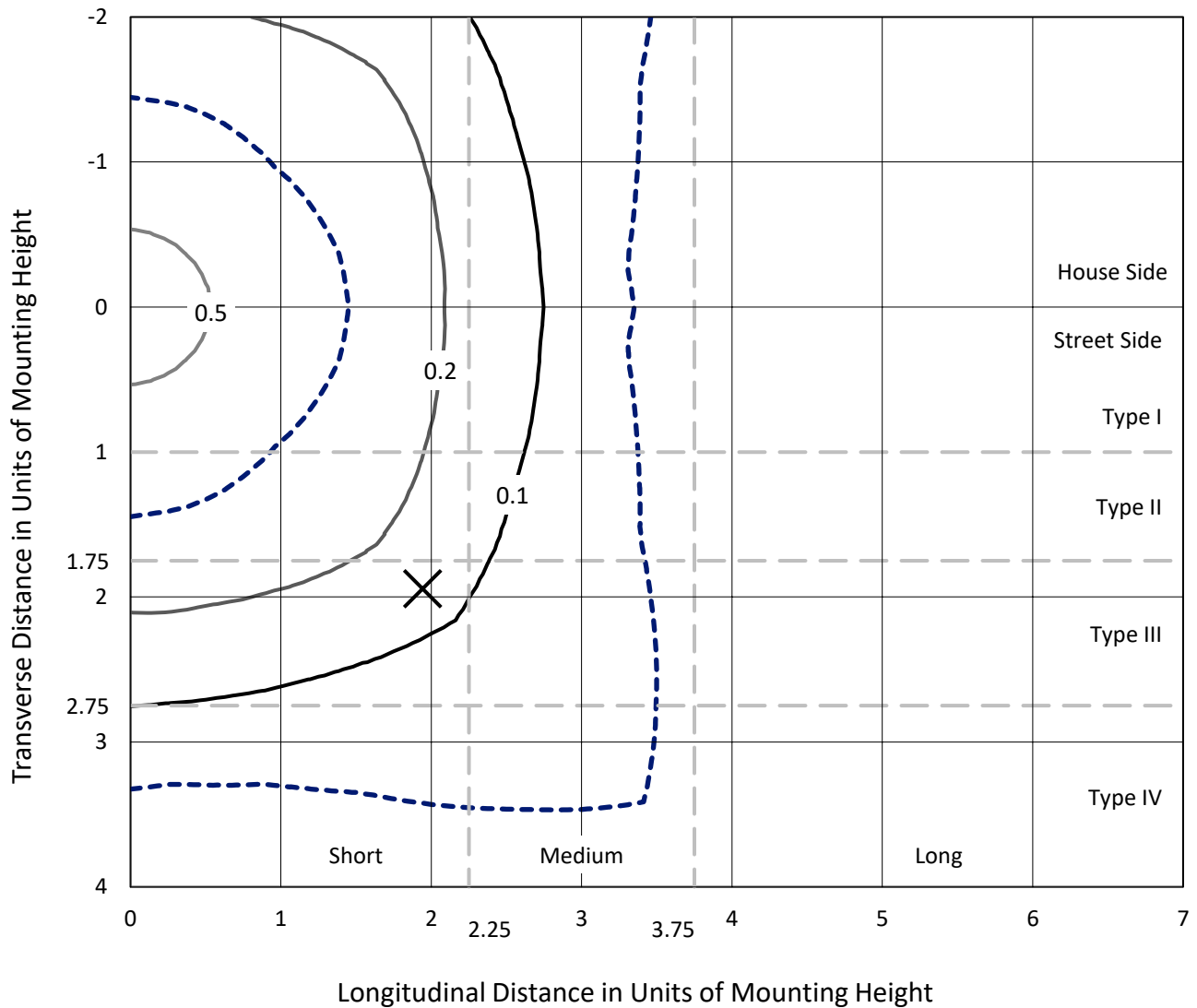
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

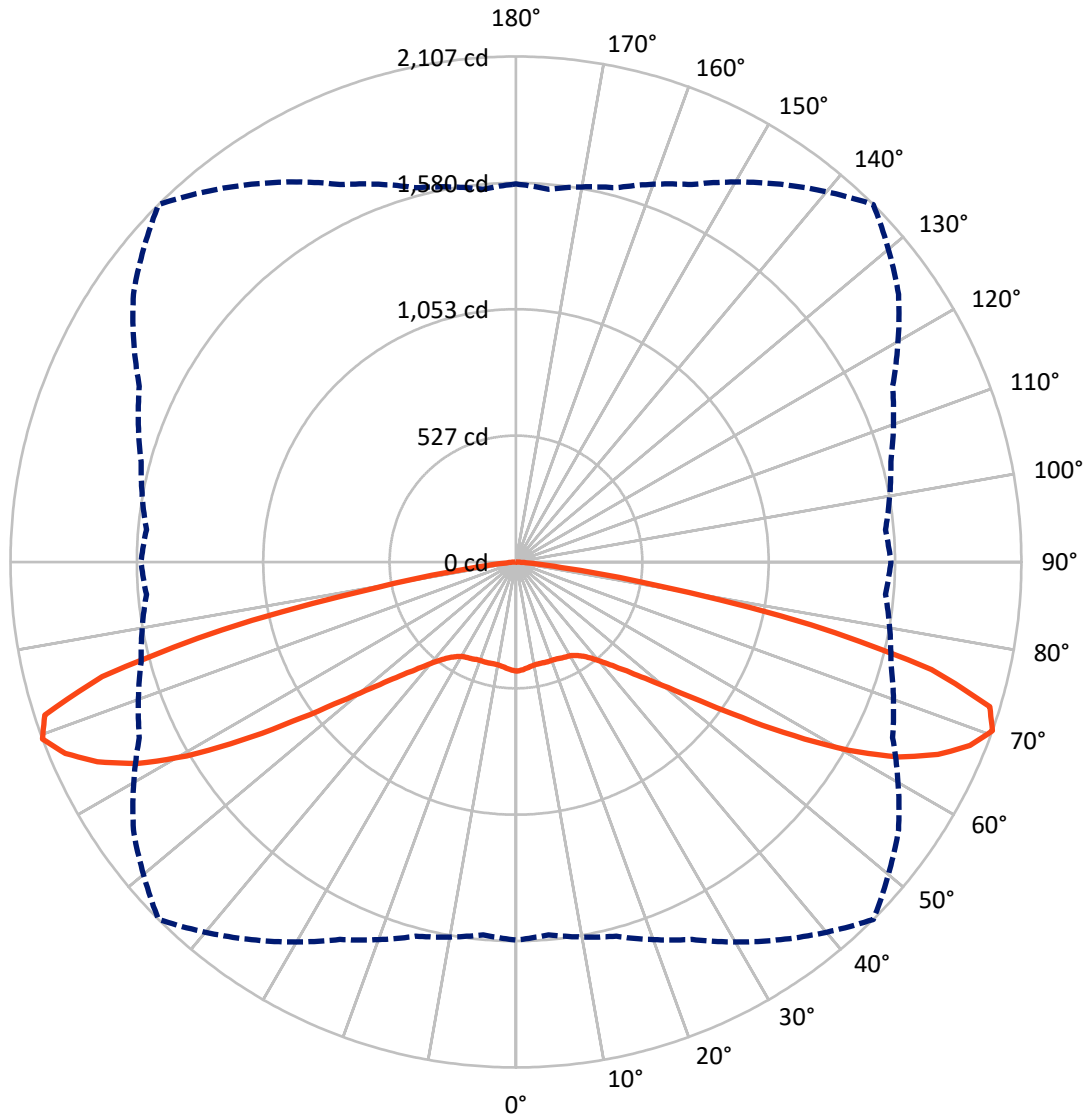
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	2494.0	0.0	2494.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2494.0	0.0	2494.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4988.0	0.0	4988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	0.8
10°-20°	124.3	2.5
20°-30°	206.8	4.1
30°-40°	312.8	6.3
40°-50°	519.8	10.4
50°-60°	980.8	19.7
60°-70°	1656.1	33.2
70°-80°	1088.2	21.8
80°-90°	57.0	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°	4988.0	100.0
0°-180°	4988.0	100.0

Coefficient of Utilization



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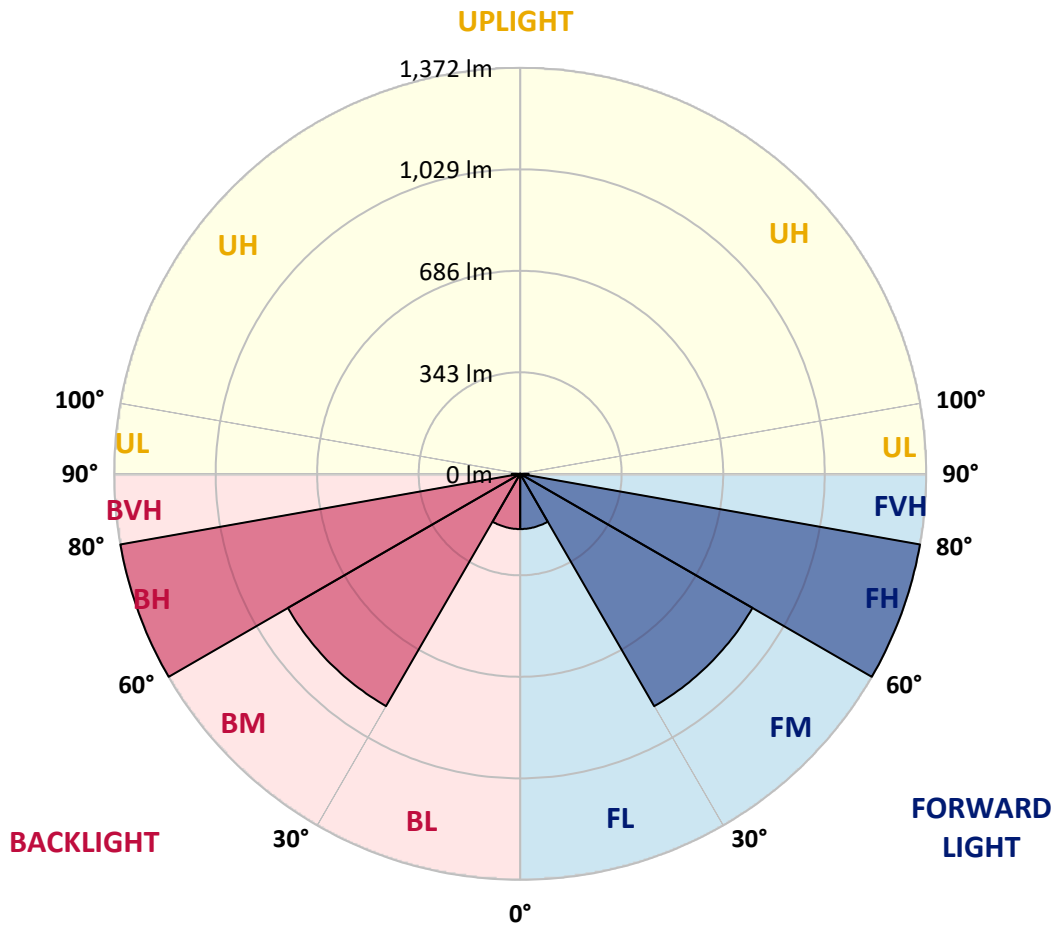
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.7	3.7			
FM (30°-60°)	906.6	18.2			
FH (60°-80°)	1372.1	27.5			G1/1800
FVH (80°-90°)	28.5	0.6			G1/100
BL (0°-30°)	186.7	3.7	B1/500		
BM (30°-60°)	906.6	18.2	B1/1000		
BH (60°-80°)	1372.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	28.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	452.2	453.5	452.9	451.9	451.9	451.1	451.9	452.4	453.2	453.7	453.5
5°	446.2	447.2	447.0	446.2	446.5	445.7	446.2	447.0	447.5	447.7	447.7
7.5°	441.0	442.0	441.5	440.2	440.2	439.5	439.7	440.5	441.3	441.5	441.5
10°	439.7	440.7	439.2	437.1	436.3	435.3	435.6	436.3	437.9	438.7	438.7
12.5°	440.2	441.0	439.5	436.3	435.6	434.5	434.5	435.3	437.4	438.4	438.7
15°	441.8	442.6	440.2	436.9	436.1	435.3	435.0	436.1	438.4	440.2	440.5
17.5°	444.6	445.4	441.8	437.1	436.1	436.3	436.1	436.9	440.5	443.9	443.9
20°	447.2	447.7	442.8	437.1	436.1	436.3	436.1	437.6	442.3	447.0	447.2
22.5°	448.0	448.5	443.9	438.9	438.2	438.4	438.2	439.7	444.1	448.8	448.8
25°	448.3	449.0	445.4	441.5	442.8	443.3	442.8	443.1	446.5	450.6	450.3
27.5°	452.2	453.2	449.8	446.5	447.2	447.0	447.7	448.5	451.1	455.3	454.2
30°	460.2	461.0	458.1	454.7	454.2	452.4	454.7	457.3	460.2	463.8	463.0
32.5°	473.4	475.0	471.3	467.7	465.4	464.3	466.2	470.6	474.5	478.3	476.8
35°	495.5	496.5	493.1	486.4	482.2	482.2	483.8	489.5	495.7	500.6	498.8
37.5°	526.6	527.9	521.9	513.9	507.6	507.6	509.7	515.7	525.0	532.0	529.4
40°	564.4	566.2	558.7	550.4	544.5	543.4	546.0	552.7	561.6	570.4	567.5
42.5°	610.0	612.1	602.3	595.0	590.3	590.3	591.6	597.9	605.9	616.8	616.0
45°	668.4	672.0	658.5	651.3	646.9	647.9	648.7	654.1	661.4	673.8	673.3
47.5°	737.9	741.5	727.2	719.7	718.9	723.9	720.8	724.6	728.5	742.8	738.6
50°	816.7	822.9	813.0	812.5	814.1	823.2	815.9	818.0	813.6	822.6	817.2
52.5°	913.1	922.2	920.4	923.5	940.9	959.5	942.9	935.7	919.1	921.9	912.3
55°	1030.1	1043.8	1046.4	1065.1	1104.5	1142.6	1107.3	1078.0	1042.8	1036.3	1026.2
57.5°	1163.1	1173.9	1186.4	1224.5	1298.1	1365.8	1298.1	1233.3	1177.8	1164.6	1155.3
60°	1306.2	1319.6	1331.6	1387.8	1497.2	1592.4	1495.2	1392.2	1318.9	1301.0	1285.4
62.5°	1459.9	1477.3	1485.6	1548.1	1675.6	1789.2	1677.4	1552.7	1471.3	1452.1	1436.6
65°	1607.4	1621.7	1631.0	1697.7	1819.5	1933.3	1827.8	1704.9	1621.2	1596.0	1583.6
67.5°	1676.1	1683.9	1706.7	1782.2	1910.8	2040.7	1932.5	1790.2	1696.6	1652.5	1653.1
70°	1575.5	1559.7	1614.7	1735.5	1921.7	2106.5	1946.5	1731.9	1617.3	1545.7	1562.8
72.5°	1217.5	1190.3	1285.7	1492.3	1797.2	2064.5	1809.7	1504.0	1345.1	1199.9	1235.9
75°	662.4	631.6	763.3	1024.6	1433.2	1789.4	1466.1	1053.9	849.9	657.5	700.3
77.5°	186.9	175.3	281.6	495.7	862.0	1256.4	895.2	506.6	333.9	198.1	220.1
80°	57.3	55.5	75.2	149.3	366.1	601.7	351.8	151.2	95.7	60.4	63.8
82.5°	34.0	31.1	37.3	54.4	93.3	189.0	90.7	56.8	45.6	30.6	33.2
85°	19.4	18.1	22.0	26.4	31.4	40.2	26.2	27.0	24.4	16.3	17.1
87.5°	8.0	7.3	8.6	8.3	7.3	9.3	7.0	8.3	9.9	6.5	6.0
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)