

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: P964149

Luminaire Tested: **NVN-SB3B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964149  
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-SB3B-827-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

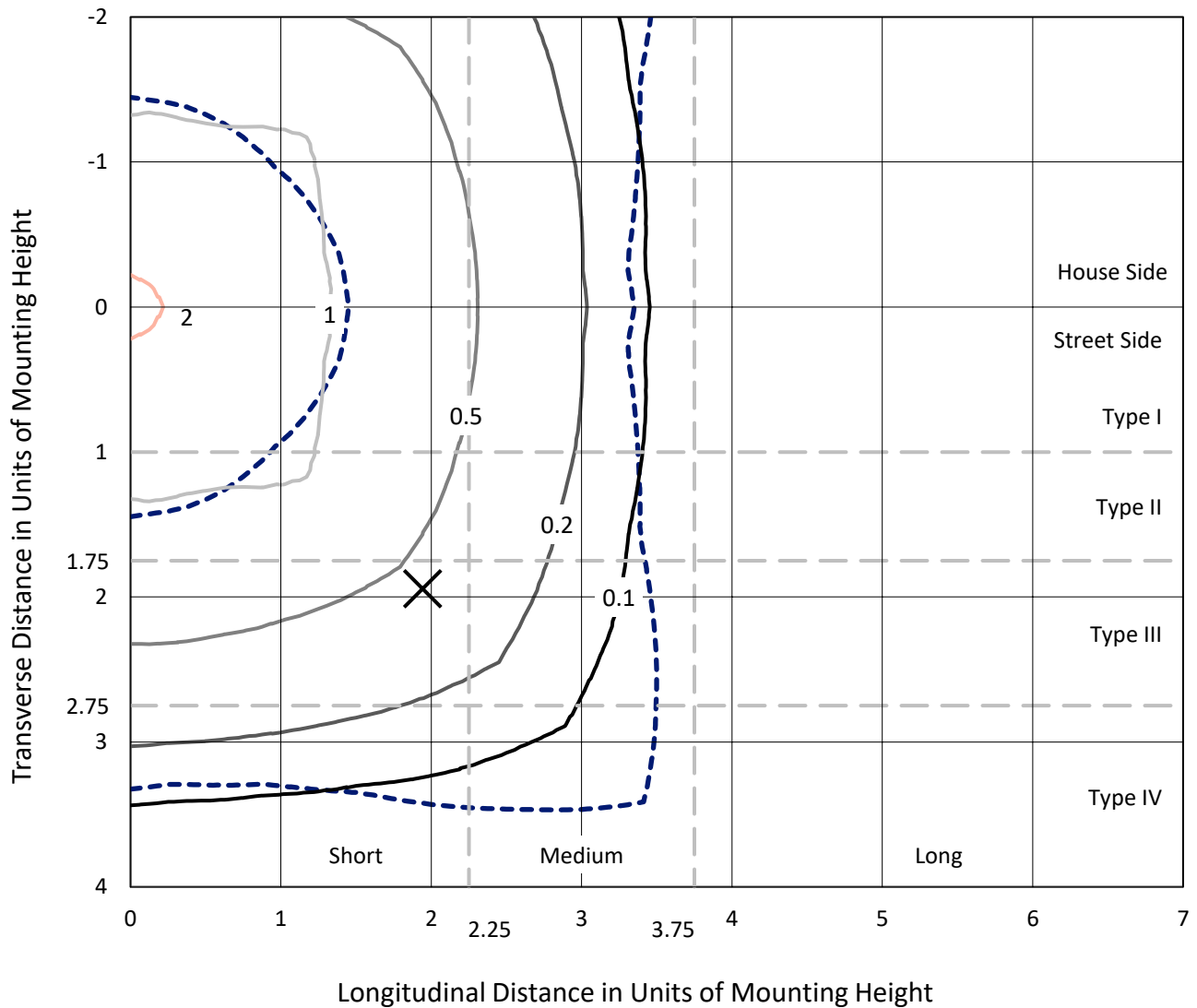
Lumens per Lamp: N/A  
Luminaire Lumens: 15232.5 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

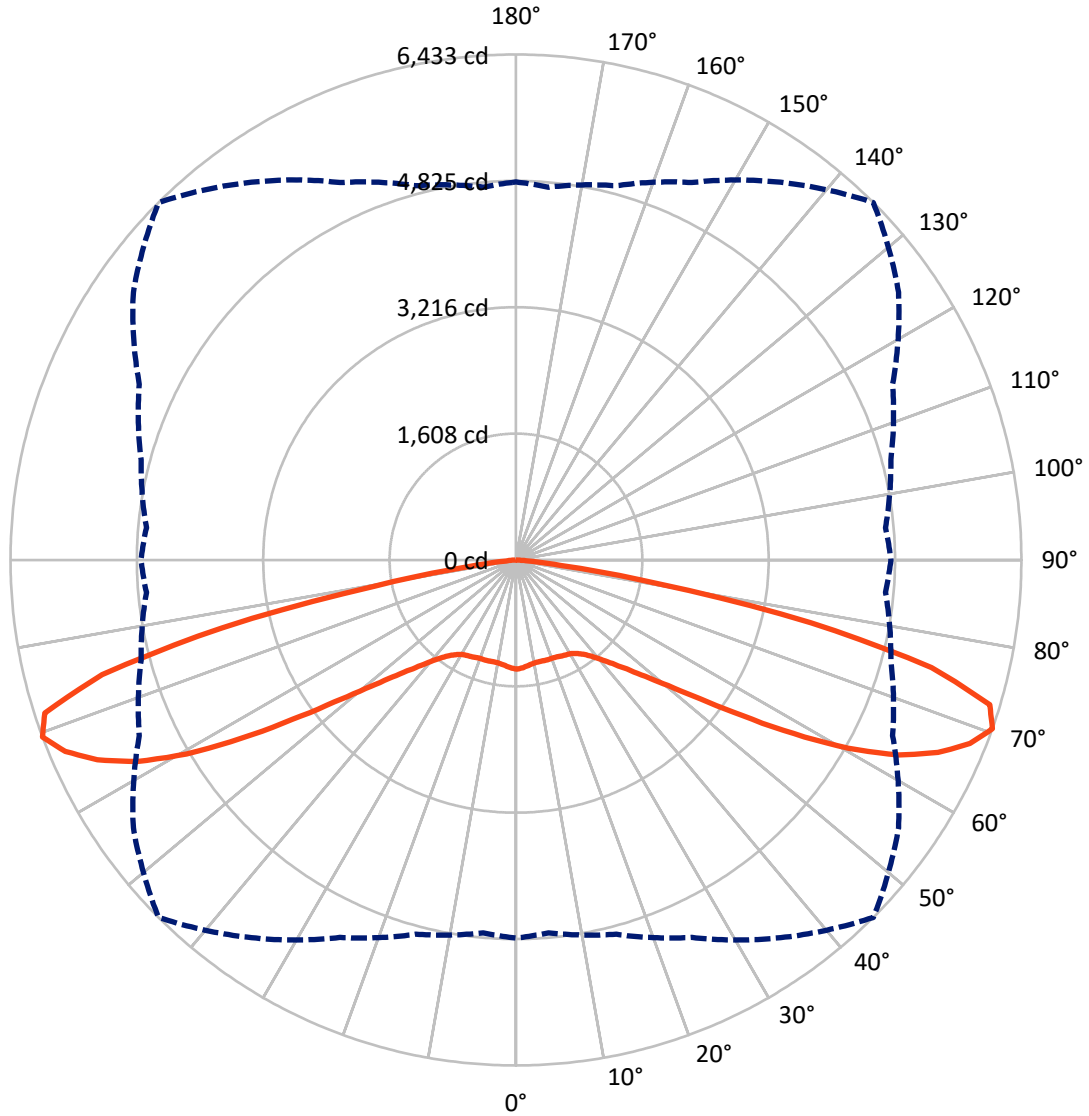
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	7616.3	0.0	7616.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7616.3	0.0	7616.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15232.5	0.0	15232.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	0.8
10°-20°	379.5	2.5
20°-30°	631.6	4.1
30°-40°	955.2	6.3
40°-50°	1587.3	10.4
50°-60°	2995.1	19.7
60°-70°	5057.3	33.2
70°-80°	3323.2	21.8
80°-90°	174.1	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°	15232.5	100.0
0°-180°	15232.5	100.0



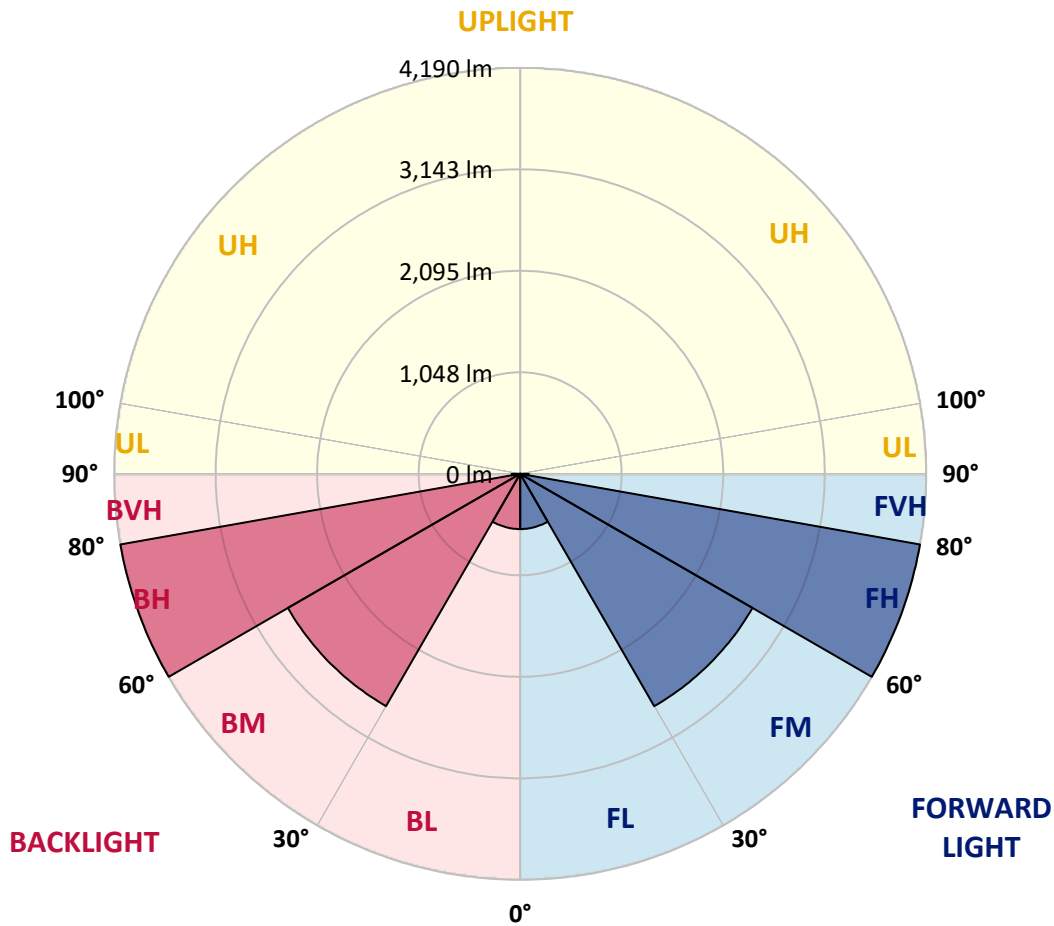
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.2	3.7			
FM (30°-60°)	2768.8	18.2			
FH (60°-80°)	4190.3	27.5			G2/5000
FVH (80°-90°)	87.0	0.6			G1/100
BL (0°-30°)	570.2	3.7	B2/1000		
BM (30°-60°)	2768.8	18.2	B3/5000		
BH (60°-80°)	4190.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	87.0	0.6			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°	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5	1389.5
2.5°	1380.8	1384.8	1383.1	1380.1	1380.1	1377.6	1380.1	1381.6	1384.0	1385.6	1384.8
5°	1362.6	1365.7	1365.0	1362.6	1363.4	1361.0	1362.6	1365.0	1366.5	1367.4	1367.4
7.5°	1346.7	1349.9	1348.4	1344.4	1344.4	1342.0	1342.7	1345.2	1347.6	1348.4	1348.4
10°	1342.7	1345.9	1341.2	1334.9	1332.5	1329.3	1330.1	1332.5	1337.2	1339.7	1339.7
12.5°	1344.4	1346.7	1342.0	1332.5	1330.1	1327.0	1327.0	1329.3	1335.7	1338.9	1339.7
15°	1349.1	1351.5	1344.4	1334.1	1331.7	1329.3	1328.5	1331.7	1338.9	1344.4	1345.2
17.5°	1357.8	1360.2	1349.1	1334.9	1331.7	1332.5	1331.7	1334.1	1345.2	1355.5	1355.5
20°	1365.7	1367.4	1352.3	1334.9	1331.7	1332.5	1331.7	1336.5	1350.7	1365.0	1365.7
22.5°	1368.2	1369.7	1355.5	1340.4	1338.0	1338.9	1338.0	1342.7	1356.3	1370.5	1370.5
25°	1368.9	1371.3	1360.2	1348.4	1352.3	1353.9	1352.3	1353.1	1363.4	1376.1	1375.2
27.5°	1380.8	1384.0	1373.7	1363.4	1365.7	1365.0	1367.4	1369.7	1377.6	1390.3	1387.1
30°	1405.4	1407.7	1399.0	1388.7	1387.1	1381.6	1388.7	1396.7	1405.4	1416.4	1414.1
32.5°	1445.8	1450.5	1439.4	1428.3	1421.2	1418.0	1423.5	1437.0	1448.9	1460.7	1456.0
35°	1513.0	1516.2	1505.9	1485.3	1472.6	1472.6	1477.4	1494.9	1513.8	1528.9	1523.4
37.5°	1608.0	1612.0	1593.8	1569.3	1550.2	1550.2	1556.6	1574.8	1603.3	1624.6	1616.7
40°	1723.6	1729.2	1706.2	1680.9	1662.7	1659.5	1667.4	1688.0	1714.9	1741.9	1733.2
42.5°	1862.9	1869.3	1839.3	1817.0	1802.8	1802.8	1806.8	1825.7	1850.3	1883.5	1881.2
45°	2041.1	2052.3	2011.0	1988.9	1975.4	1978.6	1980.9	1997.6	2019.8	2057.8	2056.1
47.5°	2253.3	2264.4	2220.9	2197.9	2195.5	2210.5	2201.1	2213.0	2224.8	2268.3	2255.7
50°	2494.0	2513.0	2483.0	2481.3	2486.0	2513.8	2491.7	2497.9	2484.5	2512.2	2495.6
52.5°	2788.5	2816.2	2810.7	2820.2	2873.3	2930.3	2879.5	2857.4	2806.8	2815.5	2786.2
55°	3145.6	3187.5	3195.4	3252.5	3372.9	3489.2	3381.6	3292.1	3184.4	3164.6	3133.7
57.5°	3551.7	3585.0	3623.1	3739.4	3964.3	4170.9	3964.3	3766.4	3596.9	3556.5	3528.0
60°	3988.8	4030.0	4066.4	4238.2	4572.3	4862.9	4566.0	4251.7	4027.6	3973.0	3925.4
62.5°	4458.3	4511.3	4536.6	4727.5	5117.0	5463.9	5122.6	4741.8	4493.2	4434.6	4387.1
65°	4908.8	4952.4	4980.9	5184.3	5556.4	5904.0	5581.8	5206.5	4950.8	4874.0	4836.0
67.5°	5118.6	5142.4	5212.0	5442.4	5835.1	6231.8	5901.6	5467.0	5181.2	5046.6	5048.1
70°	4811.5	4763.2	4931.0	5300.0	5868.4	6432.9	5944.4	5288.9	4938.9	4720.4	4772.6
72.5°	3718.1	3634.9	3926.3	4557.3	5488.4	6304.7	5526.4	4592.9	4107.6	3664.2	3774.3
75°	2022.9	1928.7	2330.8	3129.0	4376.8	5464.6	4477.3	3218.4	2595.3	2007.9	2138.5
77.5°	570.8	535.3	859.9	1513.8	2632.5	3836.8	2733.9	1547.0	1019.8	604.9	672.2
80°	175.0	169.4	229.6	456.0	1118.0	1837.6	1074.4	461.6	292.1	184.5	194.7
82.5°	103.7	95.0	114.0	166.3	285.1	577.2	277.2	173.4	139.3	93.4	101.4
85°	59.3	55.5	67.3	80.8	95.8	122.7	79.9	82.3	74.4	49.9	52.3
87.5°	24.5	22.1	26.1	25.3	22.1	28.5	21.4	25.3	30.1	19.8	18.2
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)