

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: LUMARK

Report Number: P960769

Luminaire Tested: **NAV-SB1D-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9032.3 lumens
Efficiency: N/A
Efficacy: 113.5 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

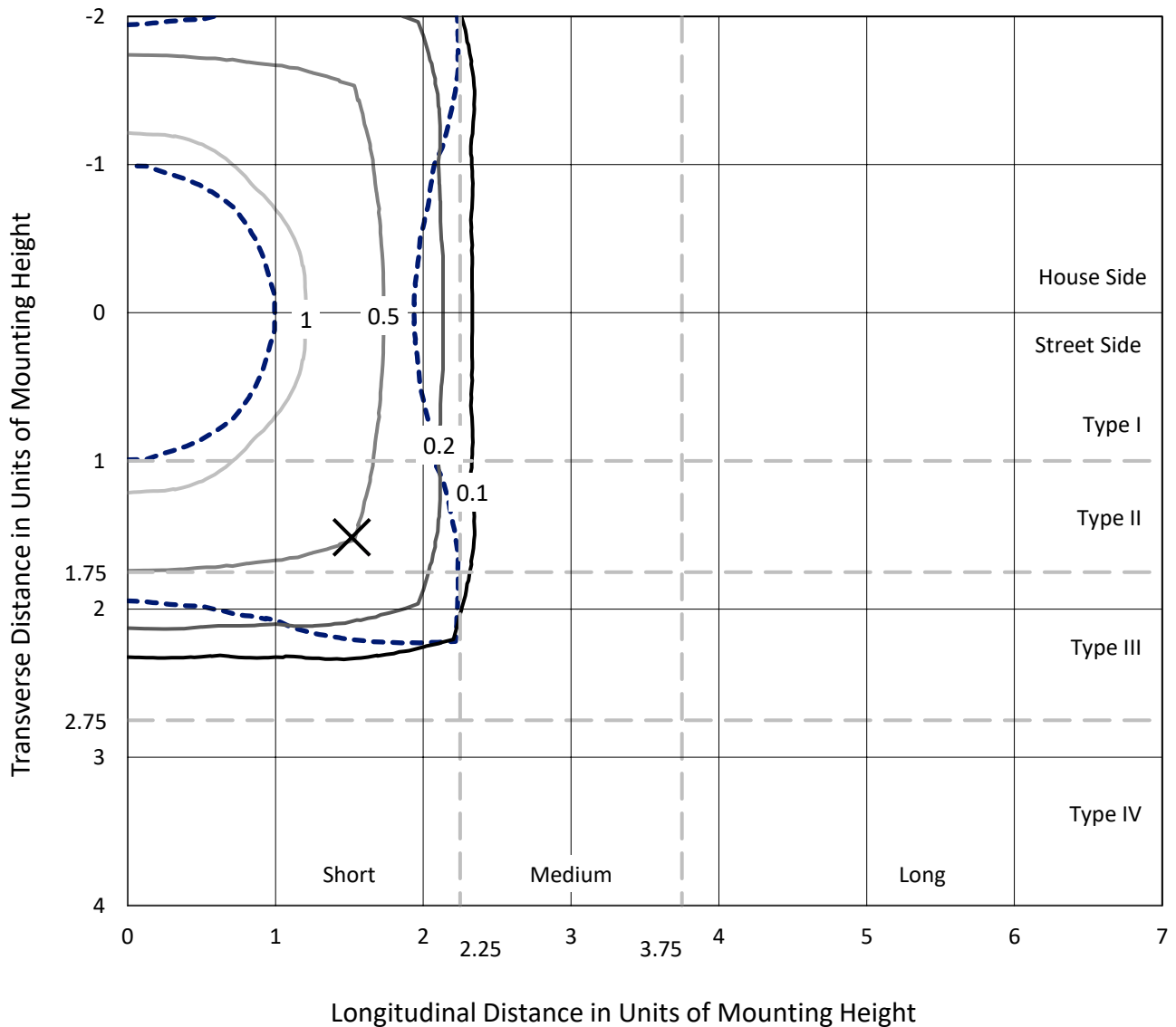
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

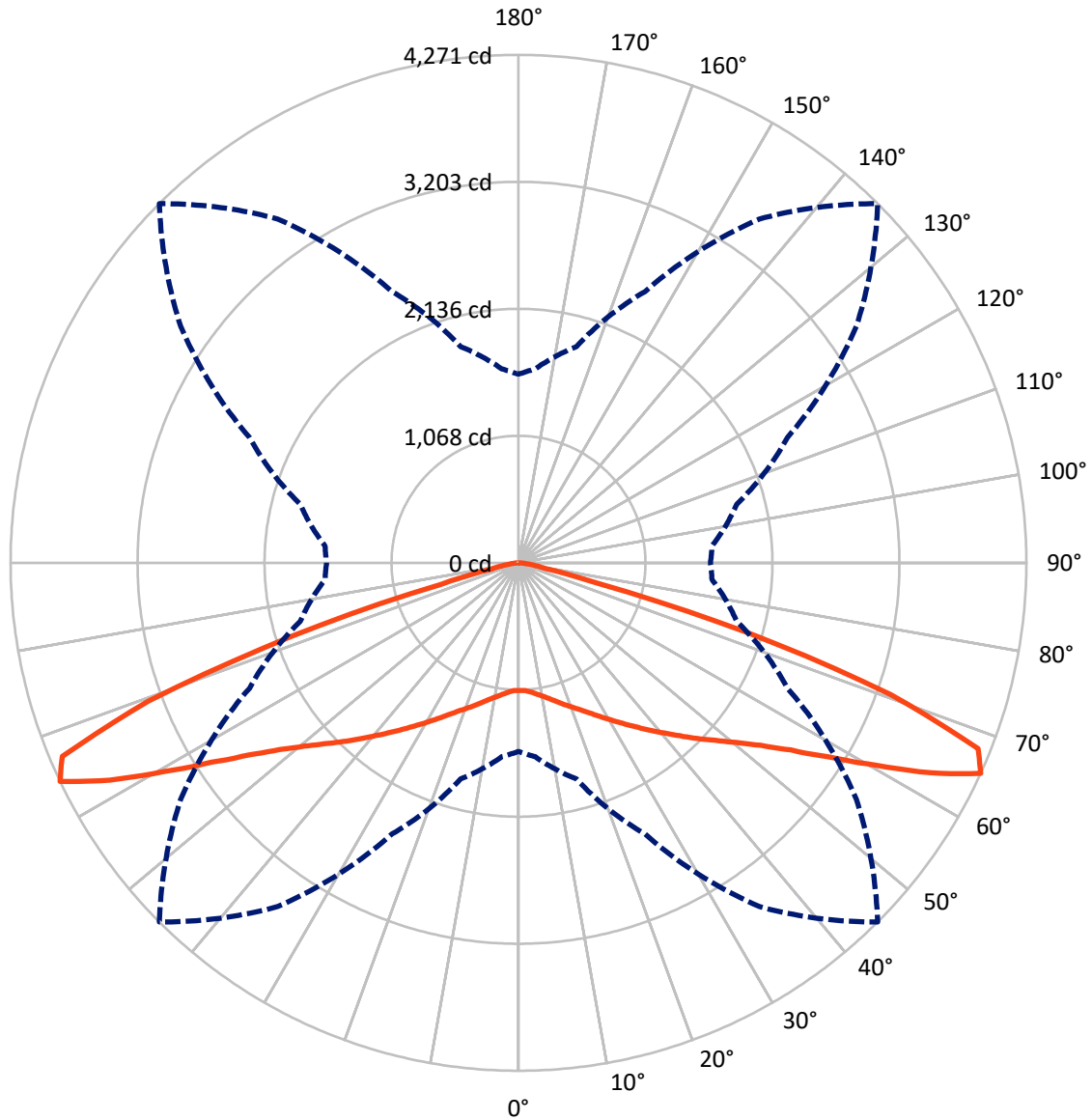
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

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CATALOG NUMBER: NAV-SB1D-722-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4516.2	0.0	4516.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4516.2	0.0	4516.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9032.3	0.0	9032.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.2
10°-20°	346.2	3.8
20°-30°	653.6	7.2
30°-40°	1070.3	11.8
40°-50°	1659.4	18.4
50°-60°	2451.3	27.1
60°-70°	2333.4	25.8
70°-80°	376.5	4.2
80°-90°	35.5	0.4
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°	9032.3	100.0
0°-180°	9032.3	100.0

Coefficient of Utilization



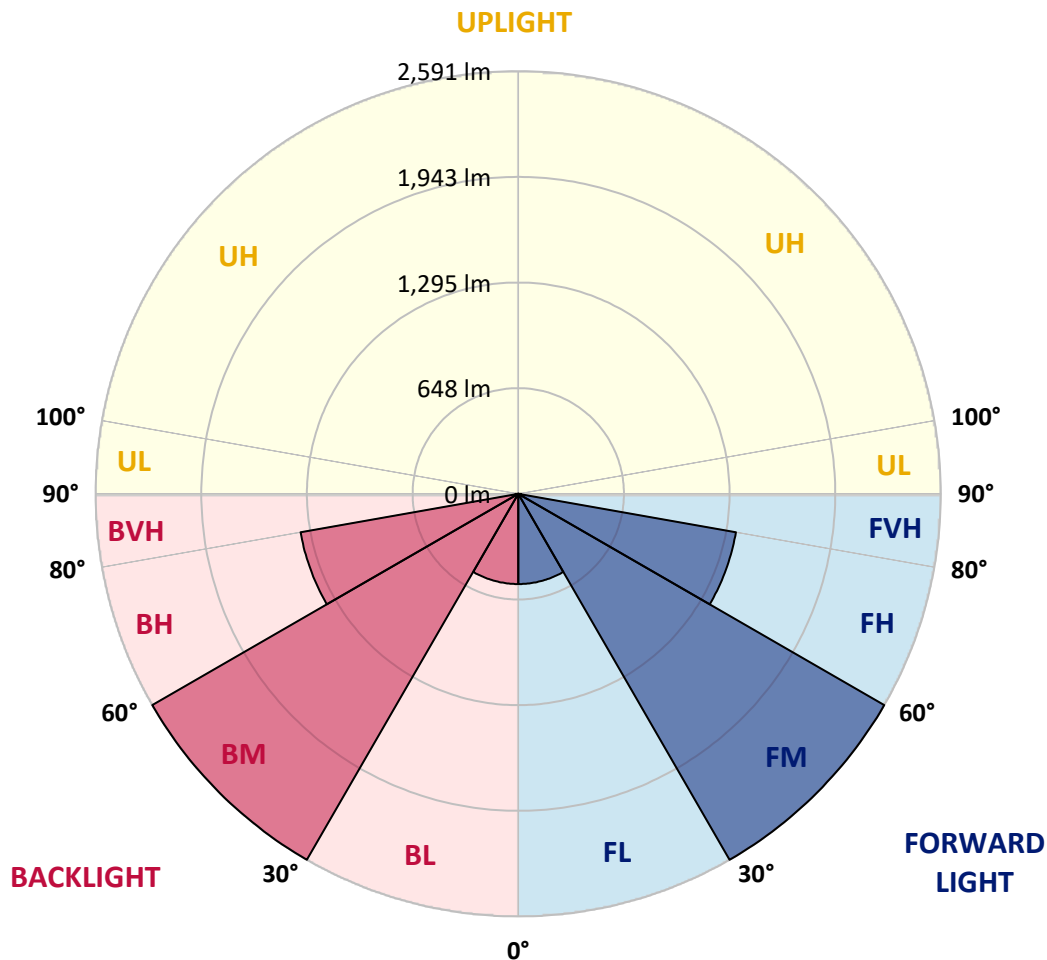
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.9	6.1			
FM (30°-60°)	2590.5	28.7			
FH (60°-80°)	1355.0	15.0			G1/1800
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	552.9	6.1	B2/1000		
BM (30°-60°)	2590.5	28.7	B3/5000		
BH (60°-80°)	1355.0	15.0	B3/2500		G1/1800
BVH (80°-90°)	17.7	0.2			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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1082.2	1078.6	1081.3	1079.0	1077.2	1075.4	1076.2	1079.4	1080.9	1081.3	1081.3
5°	1096.6	1093.5	1094.9	1094.9	1091.7	1090.8	1091.2	1093.5	1096.2	1096.2	1096.2
7.5°	1120.2	1117.0	1120.2	1118.5	1115.7	1114.8	1114.4	1116.1	1120.2	1120.2	1118.9
10°	1148.8	1145.1	1147.0	1146.1	1142.9	1141.5	1141.1	1143.8	1147.5	1147.0	1146.1
12.5°	1180.1	1176.0	1178.2	1175.6	1174.6	1173.3	1173.3	1172.8	1175.1	1173.3	1174.1
15°	1214.9	1212.3	1213.2	1211.3	1212.7	1211.8	1208.2	1206.3	1207.2	1204.6	1205.0
17.5°	1256.2	1249.9	1253.1	1252.1	1252.1	1254.0	1248.0	1245.8	1247.6	1244.9	1247.1
20°	1303.8	1297.4	1298.8	1297.0	1294.7	1296.5	1289.2	1291.1	1292.4	1290.7	1294.7
22.5°	1355.9	1347.8	1347.3	1348.2	1343.3	1343.7	1338.6	1343.3	1345.9	1340.9	1345.9
25°	1409.4	1400.8	1406.7	1404.4	1398.0	1399.4	1395.7	1400.4	1402.6	1396.3	1403.5
27.5°	1466.1	1460.1	1465.5	1467.0	1459.2	1464.6	1459.2	1463.3	1465.5	1456.0	1463.3
30°	1532.2	1526.3	1531.2	1534.9	1525.8	1534.4	1529.9	1532.7	1533.1	1521.7	1528.6
32.5°	1604.2	1595.2	1607.9	1609.7	1599.7	1610.2	1604.2	1607.9	1610.2	1594.7	1605.1
35°	1692.2	1680.8	1695.4	1693.1	1684.5	1693.1	1687.7	1693.1	1698.5	1680.0	1691.2
37.5°	1786.9	1775.1	1790.5	1786.4	1778.3	1784.1	1780.9	1784.6	1793.2	1773.2	1785.6
40°	1891.1	1876.6	1897.5	1890.2	1882.5	1881.6	1883.4	1885.7	1897.0	1874.8	1882.0
42.5°	2002.5	1987.2	2018.4	2007.2	1996.3	1989.0	1994.9	1999.4	2010.3	1985.3	1998.5
45°	2130.0	2112.2	2153.0	2139.5	2122.3	2107.3	2116.8	2123.6	2139.5	2109.6	2124.9
47.5°	2270.4	2250.5	2294.0	2289.8	2261.8	2229.2	2250.9	2270.4	2282.2	2246.0	2258.2
50°	2407.7	2392.4	2449.4	2454.4	2419.9	2374.2	2404.5	2434.0	2437.1	2389.6	2395.5
52.5°	2536.5	2521.0	2603.9	2635.2	2604.4	2550.0	2582.2	2612.1	2588.1	2526.4	2528.3
55°	2639.3	2626.6	2732.2	2812.9	2823.3	2778.5	2797.4	2796.5	2717.7	2623.0	2626.2
57.5°	2664.2	2662.4	2795.7	2966.5	3075.2	3080.7	3043.1	2947.0	2777.0	2649.7	2641.5
60°	2550.9	2562.3	2745.4	3046.7	3336.8	3457.3	3294.6	3020.5	2709.6	2532.8	2512.0
62.5°	2212.0	2241.9	2462.6	2948.8	3547.9	3890.5	3496.3	2909.0	2432.2	2201.5	2188.0
65°	1585.2	1637.3	1881.2	2516.5	3528.9	4271.2	3467.3	2496.1	1899.2	1633.2	1613.8
67.5°	719.1	772.2	979.3	1723.0	3067.5	4167.9	3060.3	1741.1	1028.3	774.9	763.6
70°	260.6	269.7	336.3	689.7	1960.4	3320.9	2044.3	694.7	357.5	287.3	283.7
72.5°	157.7	159.1	173.1	247.0	681.1	2016.2	710.1	255.1	176.7	156.8	159.5
75°	100.1	99.2	123.3	150.9	241.6	680.2	253.3	150.9	122.8	111.9	112.9
77.5°	72.1	74.3	88.4	112.9	152.3	230.6	149.5	107.8	88.4	72.5	73.9
80°	53.9	55.2	64.4	87.9	106.9	143.7	95.1	79.7	66.6	45.3	46.6
82.5°	38.9	38.9	42.1	63.9	65.3	77.5	51.7	56.2	44.0	32.2	32.2
85°	23.1	22.7	26.2	38.0	34.0	28.6	23.6	34.4	27.7	20.0	19.5
87.5°	8.2	8.6	8.2	10.9	9.0	7.7	7.3	9.5	7.7	6.8	6.4
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)