

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: P883562

Luminaire Tested: **NAV-SB4A-722-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883562  
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: LUMARK  
Catalog Number: NAV-SB4A-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 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: 14653 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

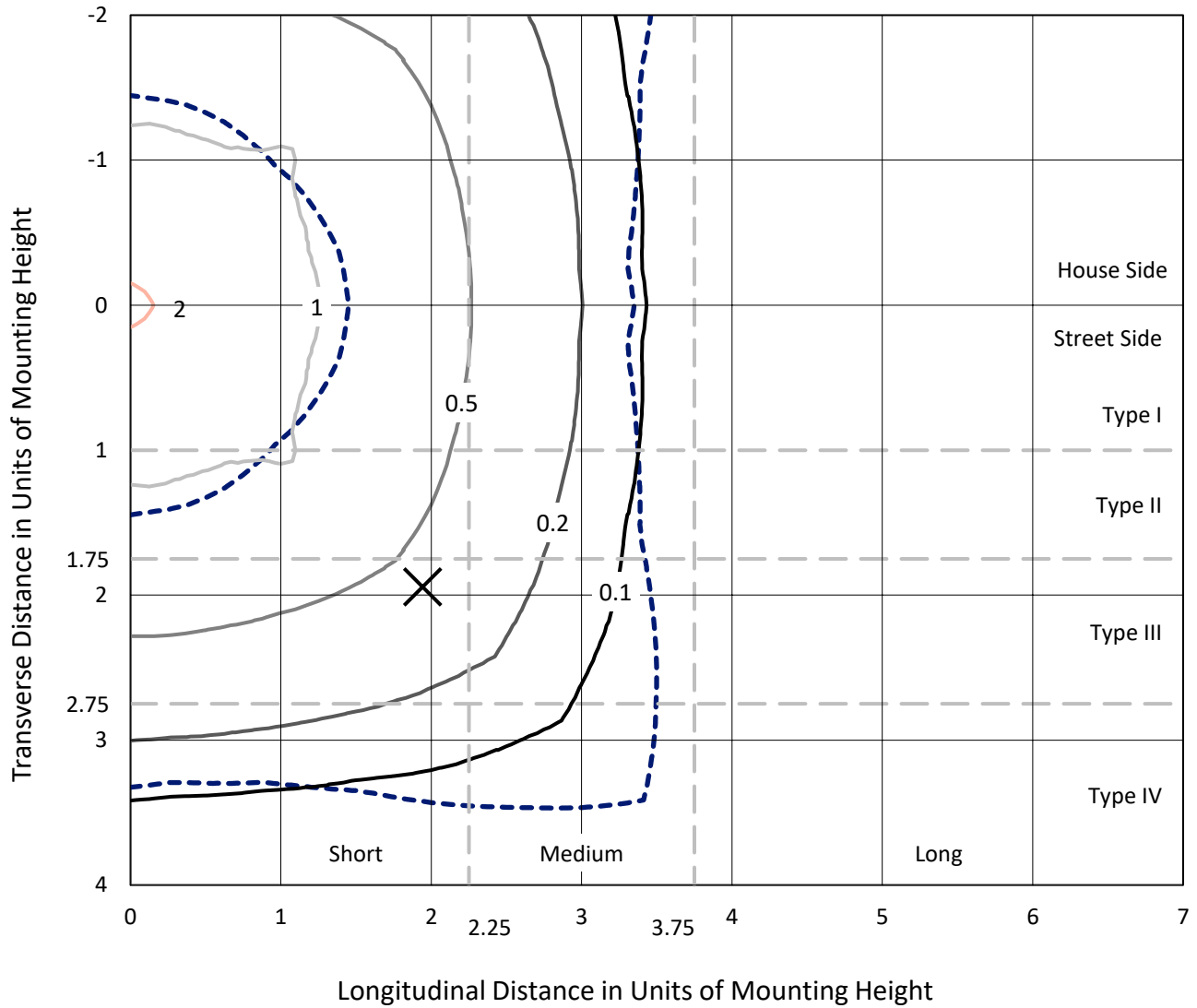
Input Watts (W): 114  
Input Voltage (V): 120.0  
Input Current (Ain): 0.952  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.206  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883562  
 CATALOG NUMBER: NAV-SB4A-722-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

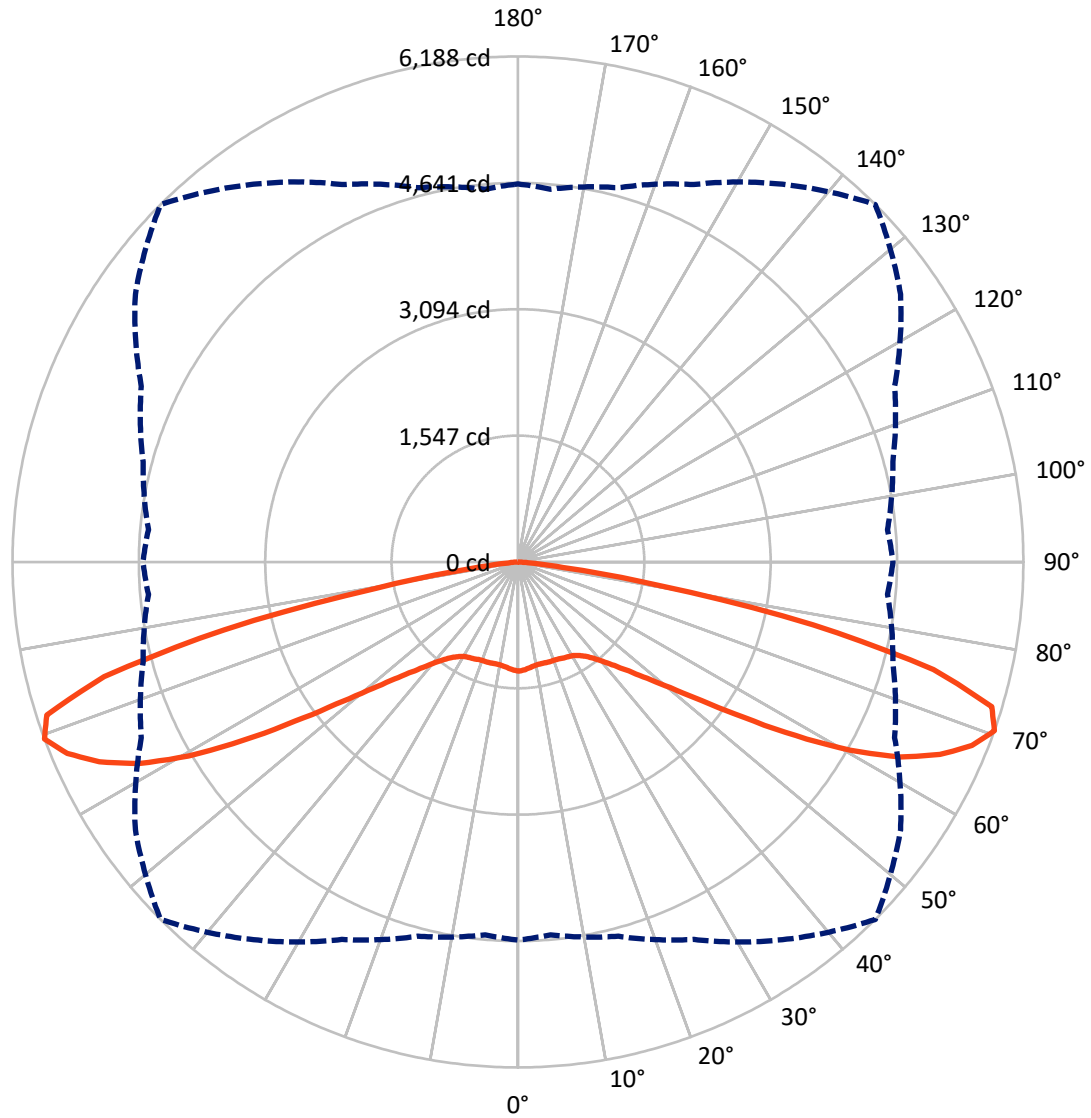
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P883562  
CATALOG NUMBER: NAV-SB4A-722-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P883562  
 CATALOG NUMBER: NAV-SB4A-722-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7326.5	0.0	7326.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7326.5	0.0	7326.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14653.0	0.0	14653.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	0.8
10°-20°	365.1	2.5
20°-30°	607.6	4.1
30°-40°	918.8	6.3
40°-50°	1526.9	10.4
50°-60°	2881.1	19.7
60°-70°	4864.9	33.2
70°-80°	3196.8	21.8
80°-90°	167.5	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°	14653.0	100.0
0°-180°	14653.0	100.0



REPORT NUMBER: P883562

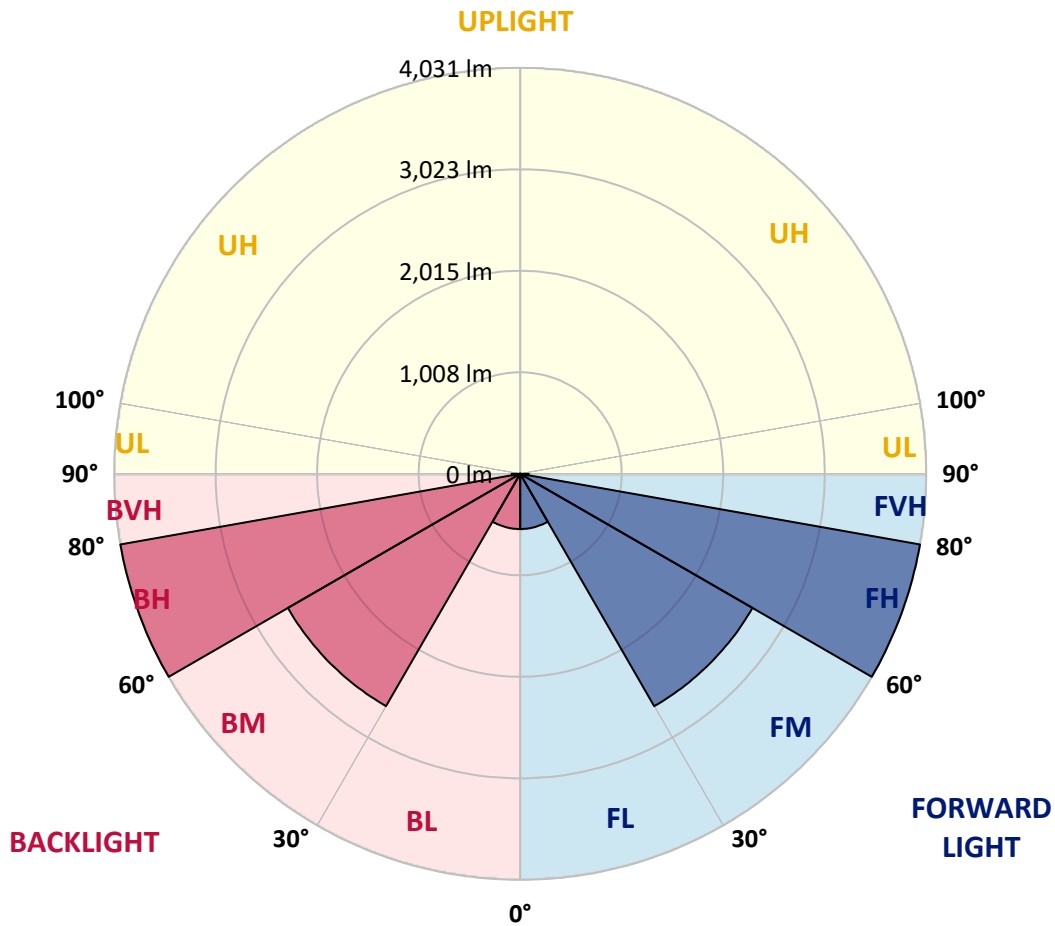
CATALOG NUMBER: NAV-SB4A-722-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.5	3.7			
FM (30°-60°)	2663.4	18.2			
FH (60°-80°)	4030.8	27.5			G2/5000
FVH (80°-90°)	83.7	0.6			G1/100
BL (0°-30°)	548.5	3.7	B2/1000		
BM (30°-60°)	2663.4	18.2	B3/5000		
BH (60°-80°)	4030.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	83.7	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



REPORT NUMBER: P883562  
 CATALOG NUMBER: NAV-SB4A-722-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6	1336.6
2.5°	1328.3	1332.1	1330.6	1327.5	1327.5	1325.2	1327.5	1329.0	1331.3	1332.8	1332.1
5°	1310.8	1313.8	1313.0	1310.8	1311.5	1309.2	1310.8	1313.0	1314.6	1315.3	1315.3
7.5°	1295.5	1298.6	1297.0	1293.2	1293.2	1291.0	1291.7	1294.0	1296.3	1297.0	1297.0
10°	1291.7	1294.8	1290.2	1284.1	1281.8	1278.8	1279.5	1281.8	1286.4	1288.7	1288.7
12.5°	1293.2	1295.5	1291.0	1281.8	1279.5	1276.5	1276.5	1278.8	1284.9	1287.9	1288.7
15°	1297.8	1300.1	1293.2	1283.3	1281.1	1278.8	1278.0	1281.1	1287.9	1293.2	1294.0
17.5°	1306.2	1308.5	1297.8	1284.1	1281.1	1281.8	1281.1	1283.3	1294.0	1303.9	1303.9
20°	1313.8	1315.3	1300.9	1284.1	1281.1	1281.8	1281.1	1285.6	1299.3	1313.0	1313.8
22.5°	1316.1	1317.6	1303.9	1289.4	1287.1	1287.9	1287.1	1291.7	1304.7	1318.4	1318.4
25°	1316.8	1319.1	1308.5	1297.0	1300.9	1302.4	1300.9	1301.6	1311.5	1323.7	1322.9
27.5°	1328.3	1331.3	1321.4	1311.5	1313.8	1313.0	1315.3	1317.6	1325.2	1337.4	1334.4
30°	1351.9	1354.2	1345.8	1335.9	1334.4	1329.0	1335.9	1343.5	1351.9	1362.5	1360.3
32.5°	1390.7	1395.3	1384.6	1374.0	1367.1	1364.1	1369.4	1382.3	1393.8	1405.2	1400.6
35°	1455.5	1458.5	1448.6	1428.8	1416.6	1416.6	1421.2	1437.9	1456.2	1470.7	1465.4
37.5°	1546.9	1550.7	1533.1	1509.5	1491.3	1491.3	1497.4	1514.9	1542.3	1562.9	1555.2
40°	1658.1	1663.4	1641.3	1616.9	1599.4	1596.4	1604.0	1623.8	1649.7	1675.6	1667.2
42.5°	1792.1	1798.2	1769.3	1747.9	1734.2	1734.2	1738.0	1756.3	1779.9	1811.9	1809.6
45°	1963.5	1974.1	1934.5	1913.2	1900.2	1903.3	1905.6	1921.6	1942.9	1979.5	1977.9
47.5°	2167.6	2178.2	2136.4	2114.3	2112.0	2126.5	2117.3	2128.7	2140.2	2182.1	2169.9
50°	2399.1	2417.4	2388.5	2386.9	2391.5	2418.2	2396.8	2402.9	2390.0	2416.6	2400.6
52.5°	2682.4	2709.1	2703.8	2712.9	2763.9	2818.8	2770.0	2748.7	2700.0	2708.3	2680.2
55°	3025.9	3066.3	3073.9	3128.7	3244.5	3356.5	3252.9	3166.8	3063.2	3044.2	3014.5
57.5°	3416.6	3448.6	3485.2	3597.1	3813.4	4012.2	3813.4	3623.0	3460.1	3421.2	3393.8
60°	3837.1	3876.7	3911.7	4077.0	4398.4	4677.9	4392.3	4089.9	3874.4	3821.8	3776.1
62.5°	4288.7	4339.7	4364.1	4547.7	4922.4	5256.0	4927.7	4561.4	4322.2	4265.9	4220.2
65°	4722.1	4764.0	4791.4	4987.1	5345.1	5679.4	5369.4	5008.4	4762.4	4688.6	4652.0
67.5°	4923.9	4946.7	5013.8	5235.4	5613.2	5994.7	5677.1	5259.0	4984.1	4854.6	4856.1
70°	4628.4	4581.9	4743.4	5098.3	5645.2	6188.2	5718.3	5087.6	4751.0	4540.8	4591.1
72.5°	3576.6	3496.6	3776.9	4383.9	5279.6	6064.8	5316.1	4418.2	3951.3	3524.8	3630.7
75°	1945.9	1855.3	2242.2	3009.9	4210.3	5256.7	4307.0	3096.0	2496.6	1931.5	2057.1
77.5°	549.1	514.9	827.1	1456.2	2532.4	3690.8	2629.9	1488.2	981.0	581.9	646.6
80°	168.3	163.0	220.9	438.7	1075.4	1767.7	1033.5	444.0	281.0	177.5	187.4
82.5°	99.8	91.4	109.7	159.9	274.2	555.2	266.6	166.8	134.0	89.9	97.5
85°	57.1	53.3	64.7	77.7	92.2	118.1	76.9	79.2	71.6	48.0	50.3
87.5°	23.6	21.3	25.1	24.4	21.3	27.4	20.6	24.4	28.9	19.0	17.5
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)