

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: P965513

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965513  
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: 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: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15397.5 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

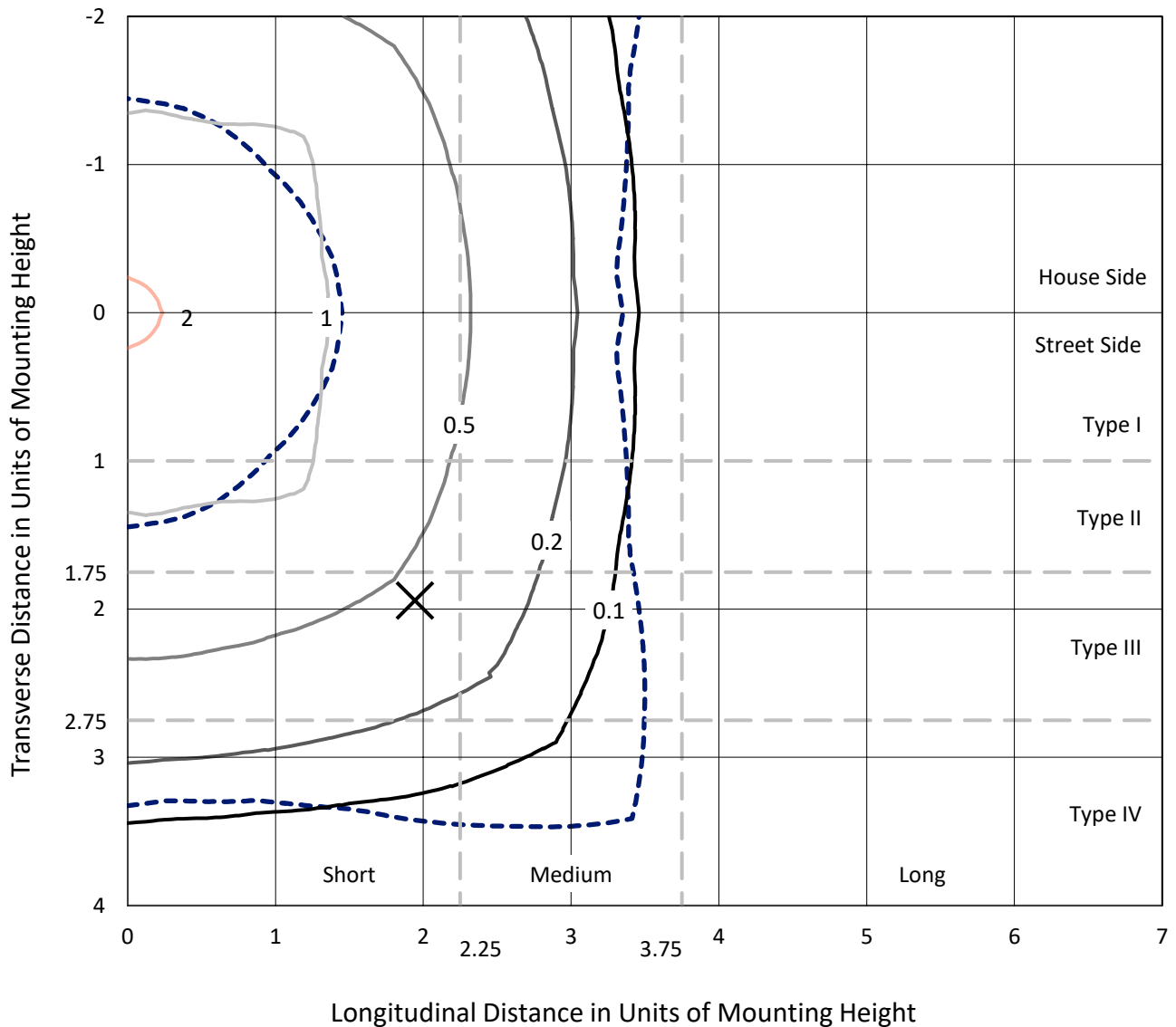
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

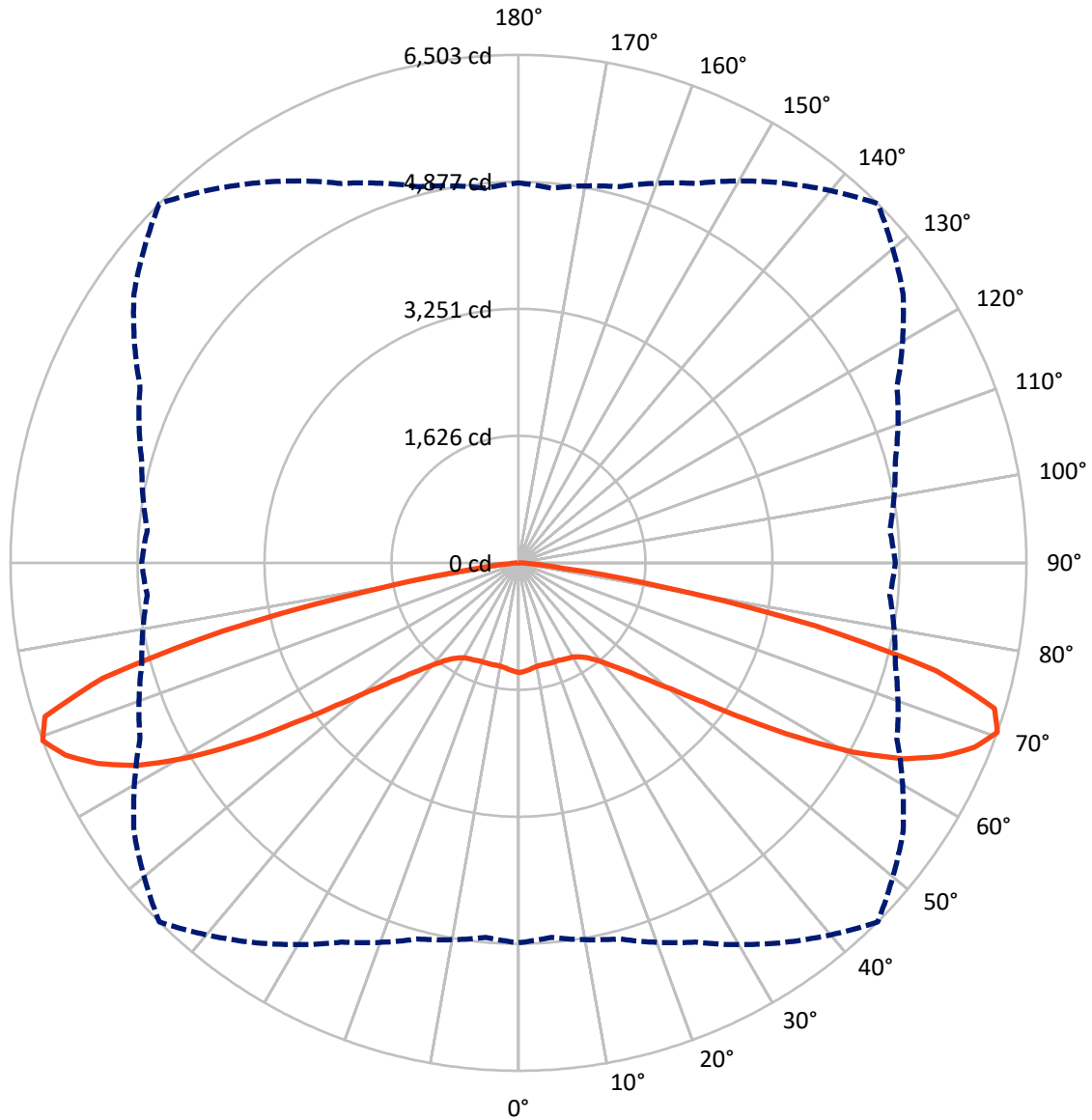
× Max cd  
 - - - 1/2 Max cd



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	7698.8	0.0	7698.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7698.8	0.0	7698.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15397.5	0.0	15397.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	0.8
10°-20°	383.6	2.5
20°-30°	638.4	4.1
30°-40°	965.5	6.3
40°-50°	1604.4	10.4
50°-60°	3027.5	19.7
60°-70°	5112.1	33.2
70°-80°	3359.2	21.8
80°-90°	176.0	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°	15397.5	100.0
0°-180°	15397.5	100.0

**Coefficient of Utilization**



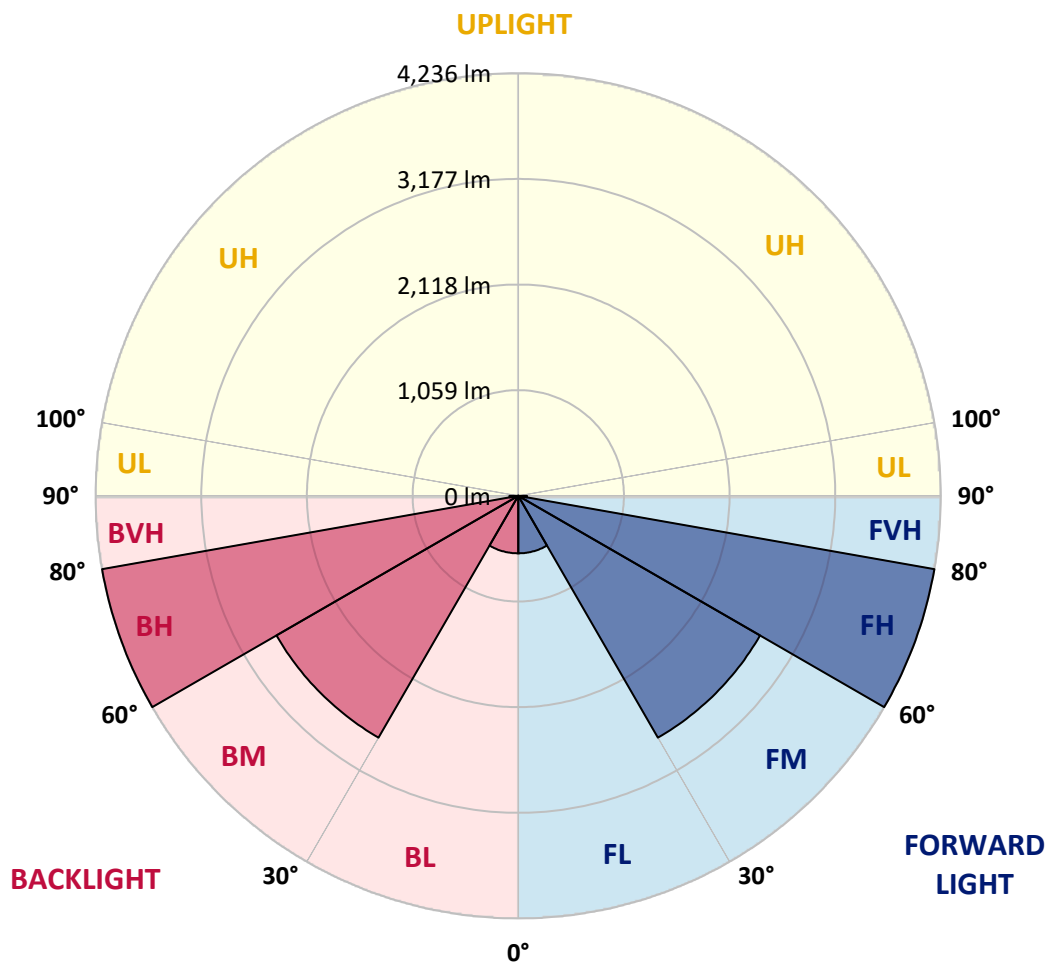
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.4	3.7			
FM (30°-60°)	2798.7	18.2			
FH (60°-80°)	4235.7	27.5			G2/5000
FVH (80°-90°)	88.0	0.6			G1/100
BL (0°-30°)	576.4	3.7	B2/1000		
BM (30°-60°)	2798.7	18.2	B3/5000		
BH (60°-80°)	4235.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	88.0	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°	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6	1404.6
2.5°	1395.7	1399.7	1398.2	1394.9	1394.9	1392.6	1394.9	1396.6	1398.9	1400.6	1399.7
5°	1377.4	1380.6	1379.8	1377.4	1378.1	1375.8	1377.4	1379.8	1381.4	1382.1	1382.1
7.5°	1361.3	1364.6	1362.9	1358.9	1358.9	1356.6	1357.3	1359.8	1362.1	1362.9	1362.9
10°	1357.3	1360.6	1355.8	1349.3	1347.0	1343.8	1344.5	1347.0	1351.8	1354.1	1354.1
12.5°	1358.9	1361.3	1356.6	1347.0	1344.5	1341.3	1341.3	1343.8	1350.1	1353.3	1354.1
15°	1363.8	1366.1	1358.9	1348.6	1346.1	1343.8	1343.0	1346.1	1353.3	1358.9	1359.8
17.5°	1372.6	1374.9	1363.8	1349.3	1346.1	1347.0	1346.1	1348.6	1359.8	1370.1	1370.1
20°	1380.6	1382.1	1366.9	1349.3	1346.1	1347.0	1346.1	1350.9	1365.3	1379.8	1380.6
22.5°	1382.9	1384.6	1370.1	1354.9	1352.6	1353.3	1352.6	1357.3	1370.9	1385.4	1385.4
25°	1383.7	1386.2	1374.9	1362.9	1366.9	1368.6	1366.9	1367.8	1378.1	1390.9	1390.2
27.5°	1395.7	1398.9	1388.6	1378.1	1380.6	1379.8	1382.1	1384.6	1392.6	1405.4	1402.2
30°	1420.5	1423.0	1414.2	1403.7	1402.2	1396.6	1403.7	1411.7	1420.5	1431.8	1429.4
32.5°	1461.3	1466.2	1455.0	1443.8	1436.5	1433.4	1439.0	1452.6	1464.6	1476.6	1471.8
35°	1529.4	1532.6	1522.2	1501.4	1488.6	1488.6	1493.4	1511.1	1530.2	1545.4	1539.9
37.5°	1625.4	1629.4	1611.1	1586.3	1567.0	1567.0	1573.5	1591.8	1620.6	1642.3	1634.3
40°	1742.3	1747.9	1724.7	1699.0	1680.7	1677.5	1685.5	1706.3	1733.5	1760.7	1751.9
42.5°	1883.1	1889.6	1859.1	1836.7	1822.3	1822.3	1826.3	1845.5	1870.3	1903.9	1901.6
45°	2063.2	2074.4	2032.8	2010.4	1996.8	2000.0	2002.4	2019.2	2041.6	2080.0	2078.4
47.5°	2277.8	2288.9	2245.0	2221.7	2219.3	2234.5	2224.9	2236.9	2249.0	2292.9	2280.1
50°	2521.0	2540.3	2509.8	2508.2	2513.0	2541.0	2518.6	2525.0	2511.5	2539.4	2522.6
52.5°	2818.7	2846.7	2841.1	2850.7	2904.3	2962.0	2910.8	2888.3	2837.1	2845.9	2816.3
55°	3179.7	3222.1	3230.1	3287.7	3409.4	3527.0	3418.2	3327.8	3218.9	3198.9	3167.7
57.5°	3590.3	3623.9	3662.3	3779.9	4007.2	4216.1	4007.2	3807.2	3635.9	3595.1	3566.3
60°	4032.0	4073.7	4110.5	4284.1	4621.8	4915.6	4615.5	4297.7	4071.2	4016.1	3968.0
62.5°	4506.6	4560.2	4585.8	4778.8	5172.5	5523.0	5178.1	4793.1	4541.9	4482.6	4434.6
65°	4962.0	5006.0	5034.8	5240.5	5616.7	5968.0	5642.3	5263.0	5004.5	4926.8	4888.3
67.5°	5174.1	5198.1	5268.5	5501.4	5898.4	6299.3	5965.6	5526.2	5237.3	5101.2	5102.9
70°	4863.5	4814.7	4984.4	5357.4	5932.0	6502.6	6008.9	5346.2	4992.4	4771.5	4824.4
72.5°	3758.3	3674.3	3968.8	4606.7	5547.8	6372.9	5586.2	4642.6	4152.1	3703.9	3815.2
75°	2044.9	1949.5	2356.2	3162.8	4424.2	5523.8	4525.8	3253.4	2623.5	2029.6	2161.6
77.5°	577.1	541.0	869.2	1530.2	2661.1	3878.4	2763.5	1563.8	1030.8	611.4	679.5
80°	176.9	171.3	232.1	460.9	1130.1	1857.5	1086.0	466.6	295.3	186.4	196.9
82.5°	104.9	96.0	115.2	168.1	288.1	583.4	280.1	175.3	140.8	94.4	102.4
85°	60.1	56.1	68.1	81.6	96.9	124.0	80.9	83.2	75.2	50.4	52.8
87.5°	24.8	22.4	26.4	25.6	22.4	28.8	21.6	25.6	30.4	20.0	18.4
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)