

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: P961822

Luminaire Tested: **NAV-SB2B-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

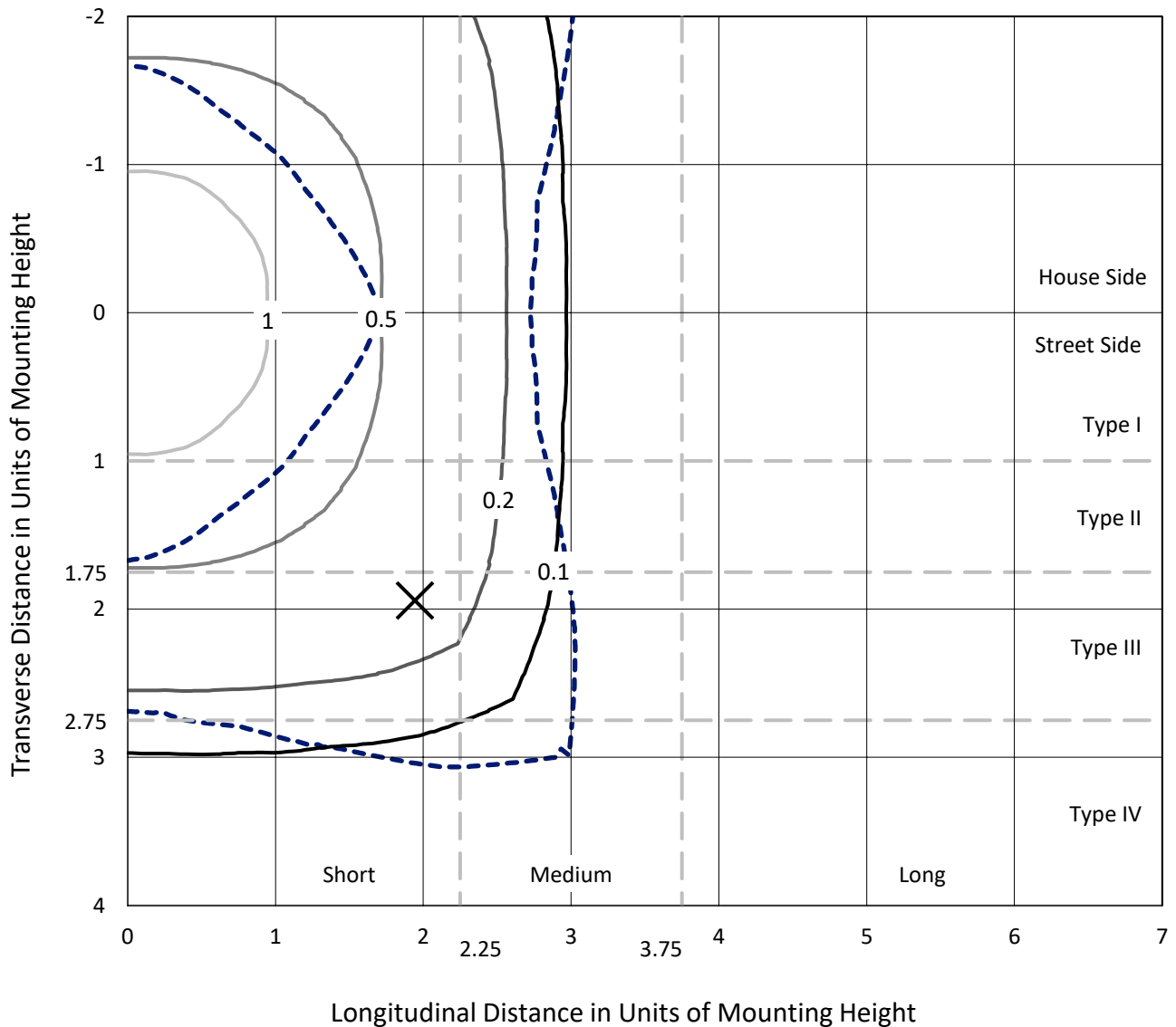
Lumens per Lamp: N/A  
Luminaire Lumens: 9985.5 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

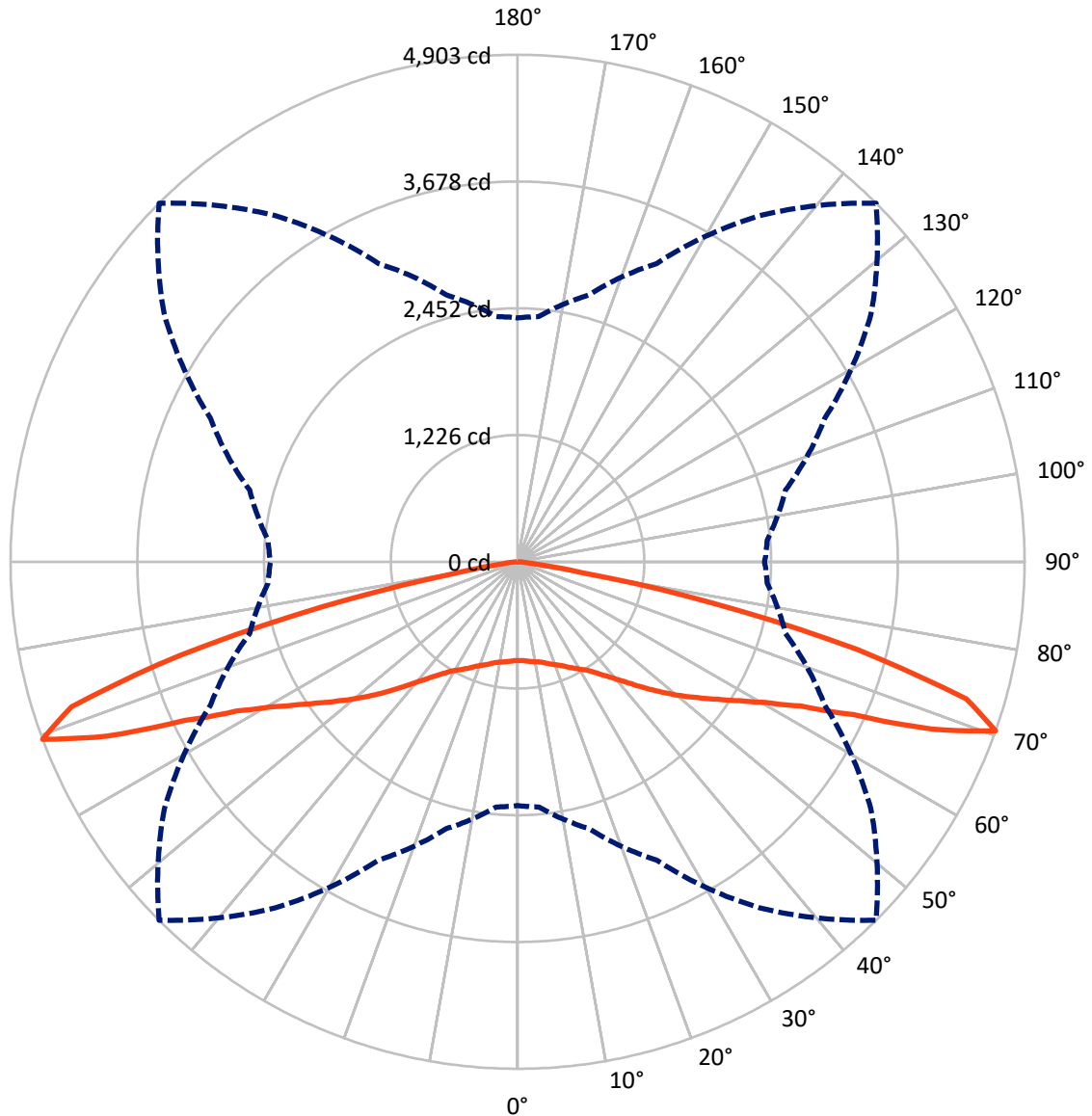
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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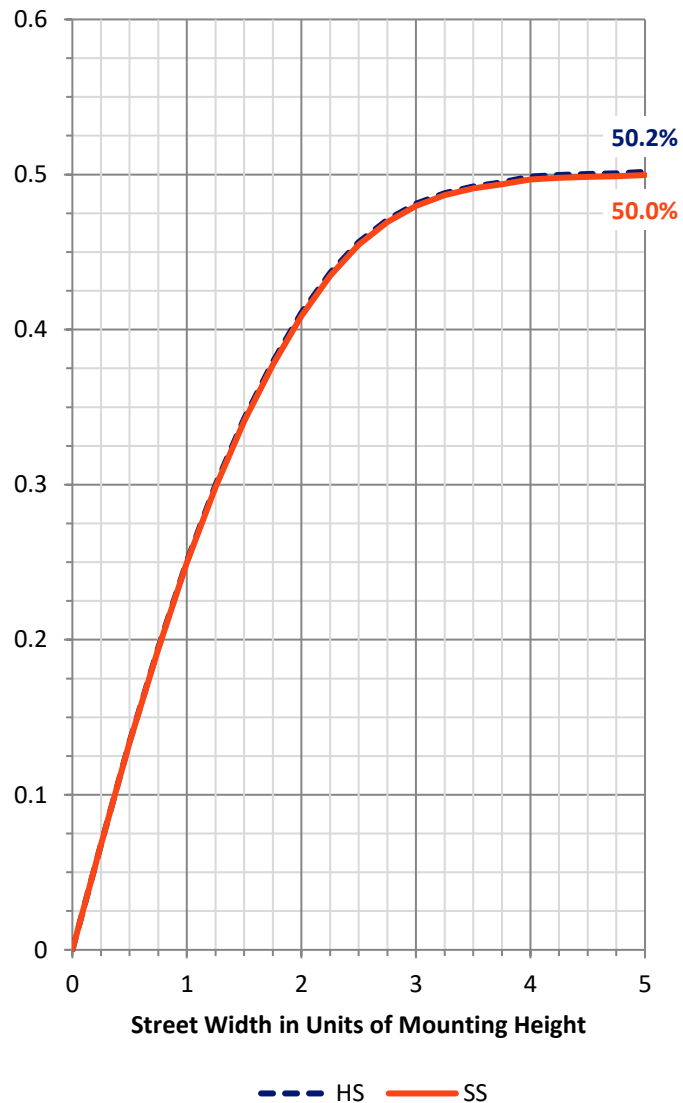
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4992.8	0.0	4992.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4992.8	0.0	4992.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9985.5	0.0	9985.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	0.9
10°-20°	288.2	2.9
20°-30°	515.0	5.2
30°-40°	834.7	8.4
40°-50°	1359.7	13.6
50°-60°	2073.0	20.8
60°-70°	3084.0	30.9
70°-80°	1680.9	16.8
80°-90°	57.2	0.6
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°	9985.5	100.0
0°-180°	9985.5	100.0

**Coefficient of Utilization**



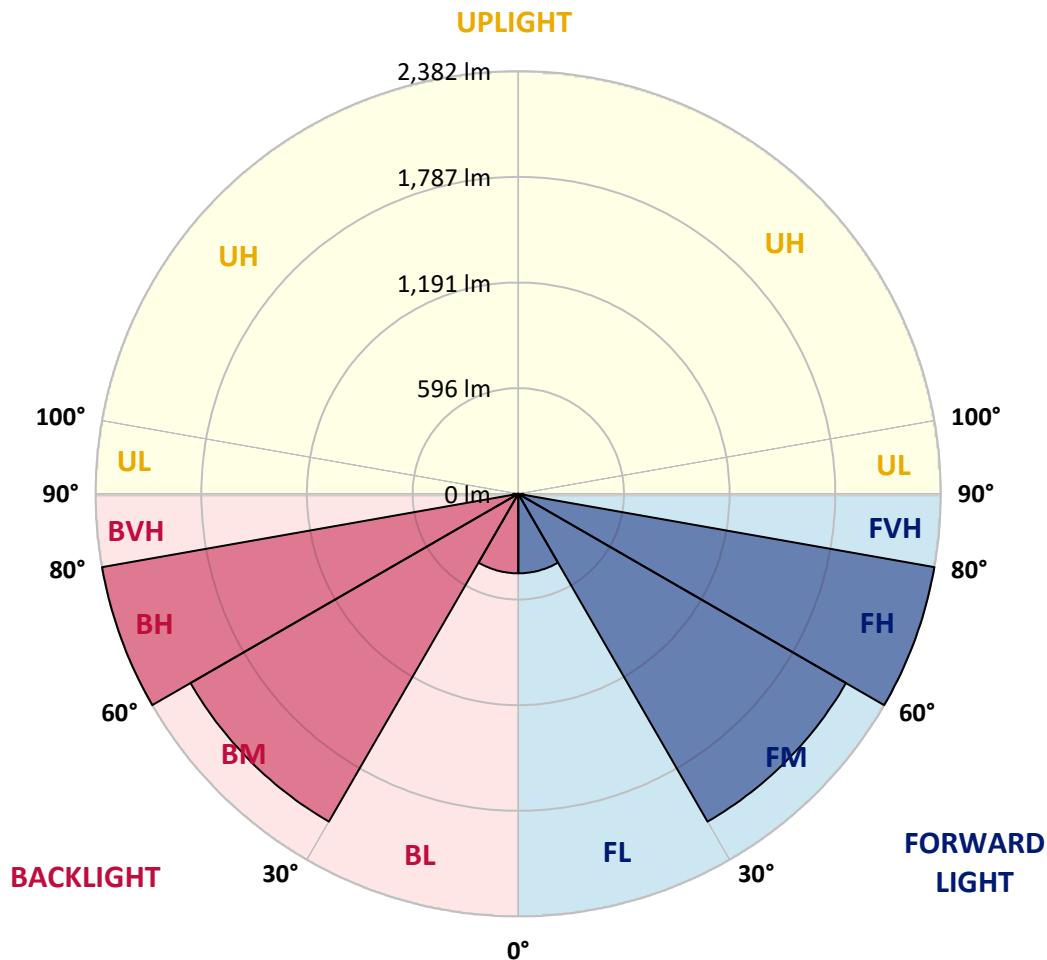
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.0	4.5			
FM (30°-60°)	2133.7	21.4			
FH (60°-80°)	2382.4	23.9			G2/5000
FVH (80°-90°)	28.6	0.3			G1/100
BL (0°-30°)	448.0	4.5	B1/500		
BM (30°-60°)	2133.7	21.4	B2/2500		
BH (60°-80°)	2382.4	23.9	B3/2500		G2/5000
BVH (80°-90°)	28.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	961.0	962.1	960.0	959.0	958.1	956.5	957.0	959.5	961.6	961.0	961.6
5°	969.0	970.1	968.5	968.0	966.1	965.6	965.6	968.0	969.5	968.5	969.0
7.5°	978.1	979.6	977.0	976.5	975.6	974.6	974.1	976.5	978.1	978.1	978.1
10°	986.6	988.1	986.0	984.6	983.6	983.6	982.6	984.6	987.1	986.6	986.6
12.5°	995.6	996.6	994.7	993.6	993.6	995.1	993.6	994.7	996.6	995.6	995.1
15°	1006.7	1007.2	1006.7	1008.2	1010.6	1015.7	1011.2	1010.1	1011.2	1008.6	1008.6
17.5°	1021.7	1022.6	1024.7	1028.2	1031.7	1040.7	1032.7	1030.2	1030.2	1025.2	1025.2
20°	1040.3	1041.7	1044.8	1050.7	1055.2	1063.7	1055.8	1052.3	1050.7	1044.3	1044.3
22.5°	1059.7	1062.3	1066.8	1074.8	1082.8	1090.9	1082.8	1076.9	1072.4	1063.7	1063.3
25°	1082.3	1085.4	1092.3	1105.4	1116.4	1128.0	1118.5	1106.4	1097.4	1085.4	1084.9
27.5°	1114.4	1118.0	1126.5	1142.5	1156.5	1166.6	1157.5	1142.0	1129.4	1114.9	1114.4
30°	1159.6	1163.1	1173.1	1190.1	1199.7	1206.1	1200.2	1188.1	1173.1	1156.5	1156.5
32.5°	1217.7	1222.2	1233.3	1249.3	1251.3	1252.2	1250.3	1244.2	1233.3	1213.2	1213.7
35°	1291.4	1296.4	1308.9	1321.9	1320.0	1321.9	1319.0	1316.9	1308.9	1285.9	1285.9
37.5°	1381.6	1387.6	1400.7	1410.7	1405.7	1403.2	1403.7	1404.1	1399.6	1374.1	1374.1
40°	1486.5	1494.4	1504.0	1514.4	1505.9	1498.4	1503.5	1507.5	1503.5	1477.3	1477.3
42.5°	1594.2	1605.8	1615.7	1630.8	1623.8	1614.3	1621.2	1625.8	1617.2	1589.2	1591.2
45°	1714.0	1725.1	1738.1	1760.6	1755.6	1745.6	1755.6	1756.6	1742.1	1709.0	1712.5
47.5°	1837.8	1849.4	1868.9	1899.0	1897.0	1886.0	1899.0	1891.9	1873.4	1833.8	1831.3
50°	1955.1	1971.2	2001.2	2043.3	2047.3	2033.8	2051.4	2037.8	2006.7	1957.1	1956.1
52.5°	2065.4	2082.5	2130.1	2187.2	2201.8	2184.3	2207.8	2184.3	2137.6	2074.0	2067.9
55°	2181.2	2200.3	2256.9	2331.7	2360.7	2347.7	2369.7	2334.1	2267.9	2190.7	2180.3
57.5°	2317.6	2329.1	2396.8	2485.5	2534.6	2537.7	2547.7	2487.6	2407.3	2319.6	2307.6
60°	2465.4	2481.5	2555.2	2661.5	2739.2	2764.2	2753.8	2664.5	2571.2	2470.5	2454.5
62.5°	2655.0	2672.5	2760.7	2888.0	3010.9	3073.1	3032.0	2902.6	2787.3	2666.5	2645.4
65°	2811.9	2831.5	2990.8	3218.0	3441.5	3566.4	3463.1	3225.0	3017.4	2846.9	2819.0
67.5°	2698.1	2722.2	2972.3	3389.4	3945.3	4317.8	3964.4	3440.5	3034.0	2802.9	2768.3
70°	2358.2	2380.8	2672.5	3182.3	4087.2	4903.4	4172.5	3276.1	2682.0	2423.4	2388.8
72.5°	1565.6	1638.3	1933.6	2545.2	3649.6	4537.4	3685.7	2493.5	1793.7	1562.1	1511.5
75°	519.4	577.5	779.0	1319.5	2444.4	3393.4	2327.2	1167.6	617.2	444.1	420.1
77.5°	130.9	150.9	208.1	377.5	975.1	1932.1	877.8	308.3	167.9	117.3	104.8
80°	63.7	70.2	100.2	125.9	244.2	614.1	229.1	118.3	79.2	61.2	56.2
82.5°	35.1	35.6	56.7	71.2	90.7	158.9	94.2	69.2	45.6	37.1	37.1
85°	21.5	21.0	30.0	38.1	38.1	56.7	45.1	38.1	26.0	23.1	24.1
87.5°	8.5	8.5	11.1	12.0	10.6	14.6	11.5	12.5	10.0	9.5	10.0
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)