

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: P963932

Luminaire Tested: **NAV-SB3B-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963932  
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-SB3B-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14469.9 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

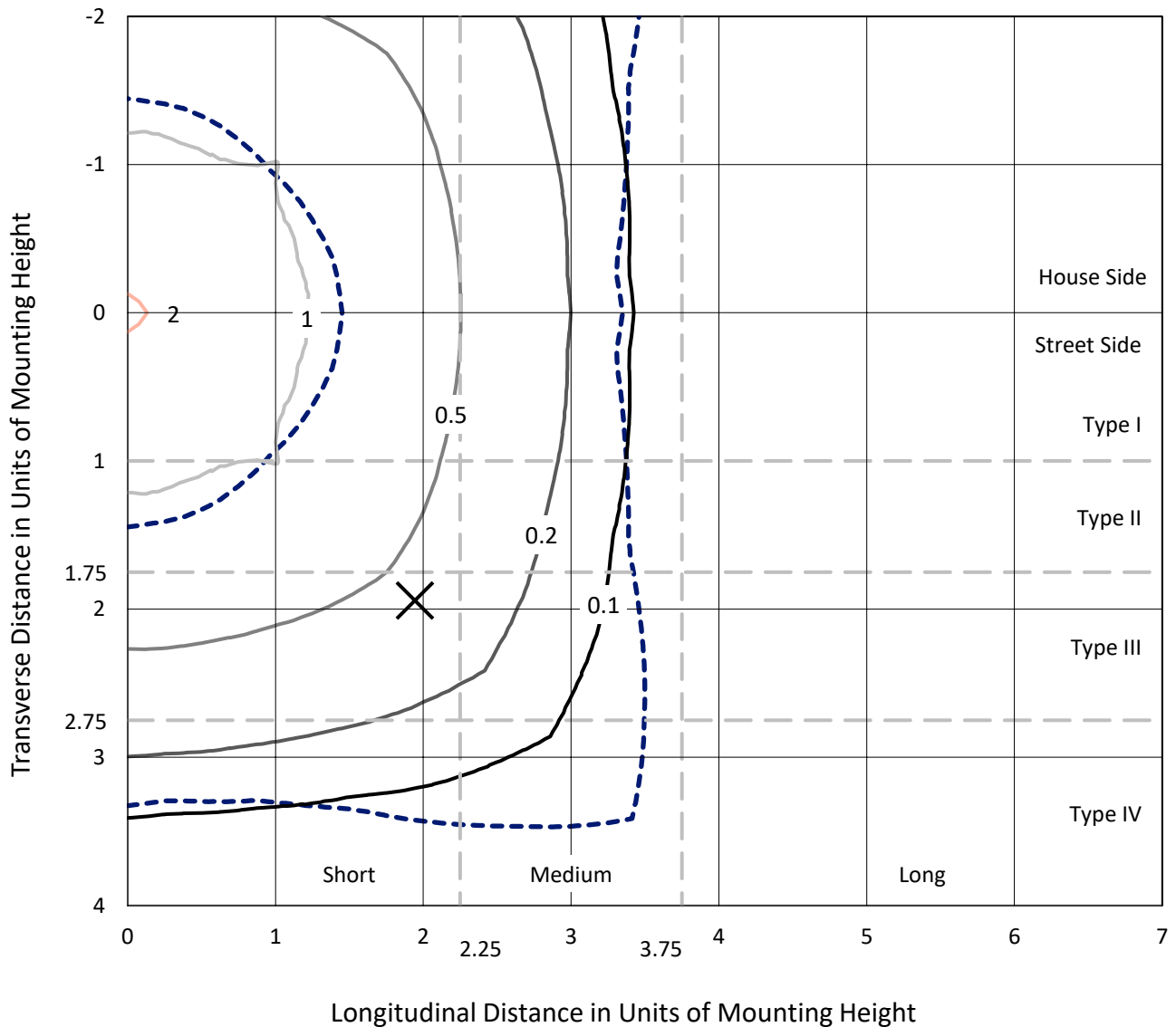
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

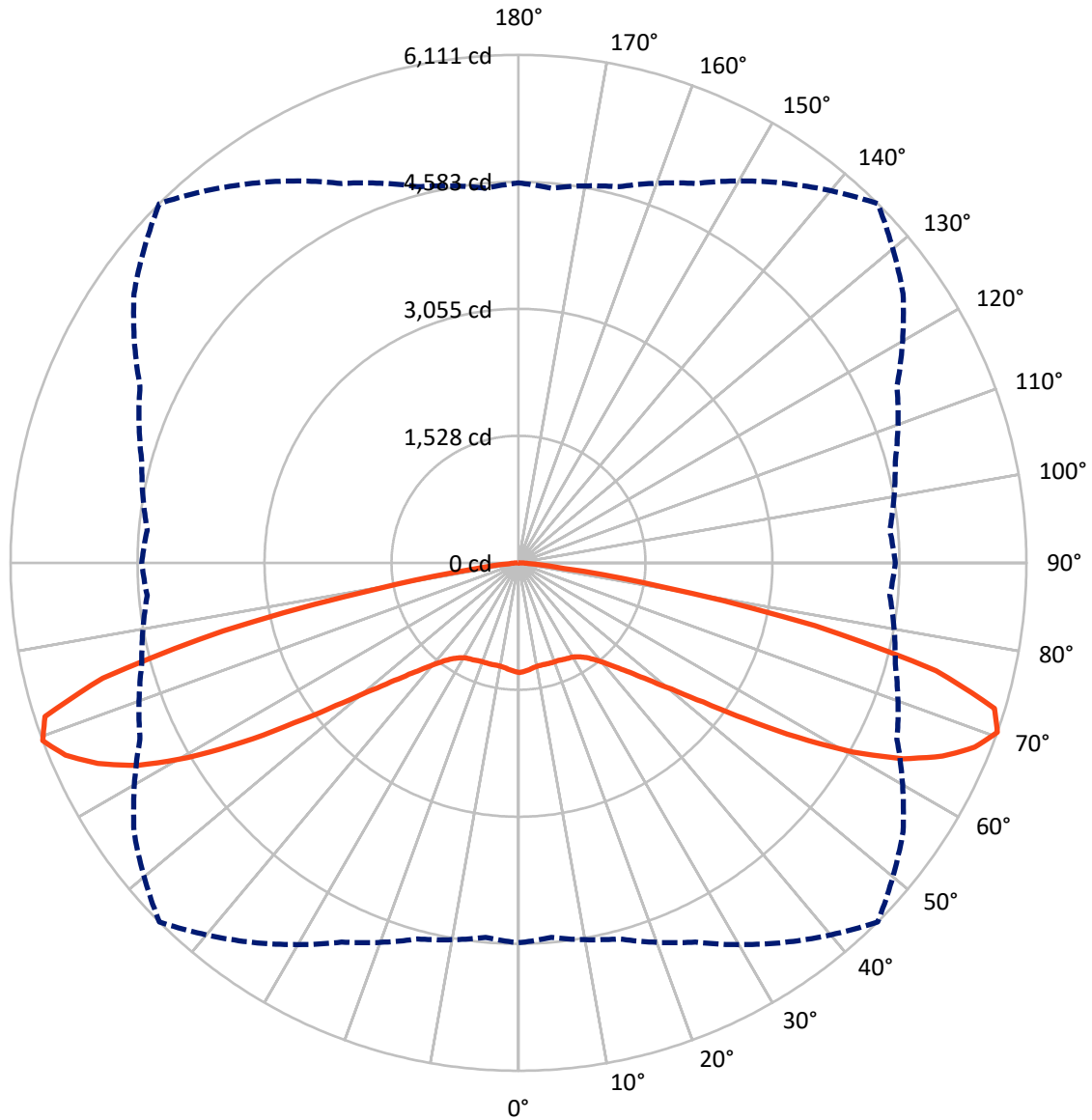
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	7235.0	0.0	7235.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7235.0	0.0	7235.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14469.9	0.0	14469.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.8	0.8
10°-20°	360.5	2.5
20°-30°	600.0	4.1
30°-40°	907.3	6.3
40°-50°	1507.8	10.4
50°-60°	2845.1	19.7
60°-70°	4804.1	33.2
70°-80°	3156.8	21.8
80°-90°	165.4	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°	14469.9	100.0
0°-180°	14469.9	100.0

**Coefficient of Utilization**



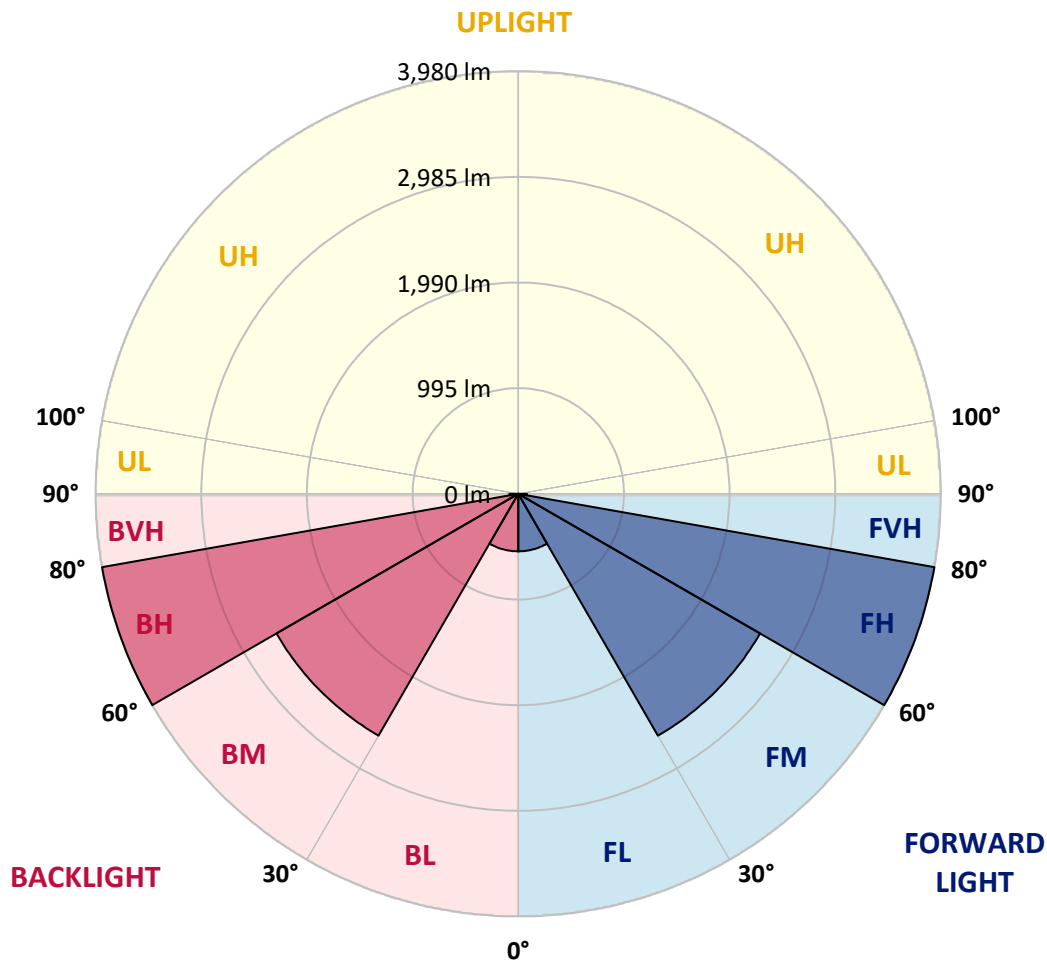
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.6	3.7			
FM (30°-60°)	2630.1	18.2			
FH (60°-80°)	3980.5	27.5			G2/5000
FVH (80°-90°)	82.7	0.6			G1/100
BL (0°-30°)	541.6	3.7	B2/1000		
BM (30°-60°)	2630.1	18.2	B3/5000		
BH (60°-80°)	3980.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	82.7	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1311.7	1315.5	1313.9	1310.9	1310.9	1308.6	1310.9	1312.4	1314.7	1316.2	1315.5
5°	1294.4	1297.3	1296.6	1294.4	1295.1	1292.8	1294.4	1296.6	1298.2	1298.9	1298.9
7.5°	1279.3	1282.4	1280.8	1277.0	1277.0	1274.8	1275.6	1277.9	1280.1	1280.8	1280.8
10°	1275.6	1278.6	1274.1	1268.0	1265.8	1262.8	1263.5	1265.8	1270.3	1272.5	1272.5
12.5°	1277.0	1279.3	1274.8	1265.8	1263.5	1260.5	1260.5	1262.8	1268.8	1271.8	1272.5
15°	1281.6	1283.8	1277.0	1267.3	1265.1	1262.8	1262.1	1265.1	1271.8	1277.0	1277.9
17.5°	1289.9	1292.1	1281.6	1268.0	1265.1	1265.8	1265.1	1267.3	1277.9	1287.6	1287.6
20°	1297.3	1298.9	1284.6	1268.0	1265.1	1265.8	1265.1	1269.6	1283.1	1296.6	1297.3
22.5°	1299.6	1301.1	1287.6	1273.4	1271.1	1271.8	1271.1	1275.6	1288.3	1301.9	1301.9
25°	1300.4	1302.7	1292.1	1280.8	1284.6	1286.1	1284.6	1285.4	1295.1	1307.2	1306.4
27.5°	1311.7	1314.7	1304.9	1295.1	1297.3	1296.6	1298.9	1301.1	1308.6	1320.7	1317.7
30°	1335.0	1337.2	1329.0	1319.2	1317.7	1312.4	1319.2	1326.8	1335.0	1345.5	1343.3
32.5°	1373.4	1377.9	1367.4	1356.8	1350.0	1347.1	1352.3	1365.1	1376.4	1387.6	1383.1
35°	1437.3	1440.3	1430.5	1410.9	1398.9	1398.9	1403.4	1419.9	1438.1	1452.3	1447.1
37.5°	1527.6	1531.2	1514.0	1490.7	1472.6	1472.6	1478.7	1496.0	1523.0	1543.3	1535.8
40°	1637.3	1642.6	1620.8	1596.7	1579.4	1576.4	1583.9	1603.5	1629.0	1654.7	1646.4
42.5°	1769.7	1775.7	1747.1	1726.1	1712.6	1712.6	1716.3	1734.4	1757.7	1789.2	1787.0
45°	1938.9	1949.4	1910.4	1889.3	1876.5	1879.5	1881.8	1897.6	1918.6	1954.8	1953.2
47.5°	2140.5	2151.1	2109.7	2087.8	2085.6	2099.9	2090.9	2102.2	2113.4	2154.8	2142.8
50°	2369.2	2387.2	2358.6	2357.1	2361.6	2387.9	2366.9	2372.9	2360.1	2386.4	2370.6
52.5°	2648.9	2675.2	2670.0	2679.0	2729.4	2783.6	2735.4	2714.4	2666.2	2674.5	2646.7
55°	2988.1	3028.0	3035.5	3089.7	3203.9	3314.5	3212.2	3127.3	3025.0	3006.2	2976.8
57.5°	3374.0	3405.6	3441.6	3552.2	3765.8	3962.1	3765.8	3577.8	3416.8	3378.5	3351.3
60°	3789.1	3828.3	3862.8	4026.0	4343.4	4619.5	4337.4	4038.8	3826.0	3774.0	3729.0
62.5°	4235.1	4285.5	4309.6	4490.8	4860.9	5190.3	4866.1	4504.4	4268.2	4212.5	4167.4
65°	4663.0	4704.4	4731.5	4924.8	5278.3	5608.5	5302.3	4945.8	4702.9	4629.9	4593.8
67.5°	4862.4	4884.9	4951.2	5170.0	5543.0	5919.9	5606.2	5193.3	4921.7	4793.9	4795.5
70°	4570.6	4524.7	4684.1	5034.6	5574.7	6110.8	5646.8	5024.0	4691.6	4484.1	4533.7
72.5°	3531.9	3452.9	3729.7	4329.1	5213.6	5989.1	5249.7	4363.0	3902.0	3480.8	3585.2
75°	1921.7	1832.1	2214.2	2972.3	4157.6	5191.0	4253.1	3057.3	2465.4	1907.3	2031.4
77.5°	542.2	508.4	816.8	1438.1	2500.8	3644.7	2597.0	1469.6	968.7	574.6	638.6
80°	166.3	160.9	218.1	433.2	1062.0	1745.7	1020.6	438.5	277.6	175.3	185.0
82.5°	98.5	90.3	108.3	158.0	270.8	548.3	263.2	164.7	132.3	88.8	96.2
85°	56.4	52.7	64.0	76.7	91.0	116.5	76.0	78.2	70.7	47.4	49.6
87.5°	23.3	21.0	24.8	24.1	21.0	27.1	20.3	24.1	28.6	18.8	17.3
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)