

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: P882205

Luminaire Tested: **NAV-SB2A-722-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

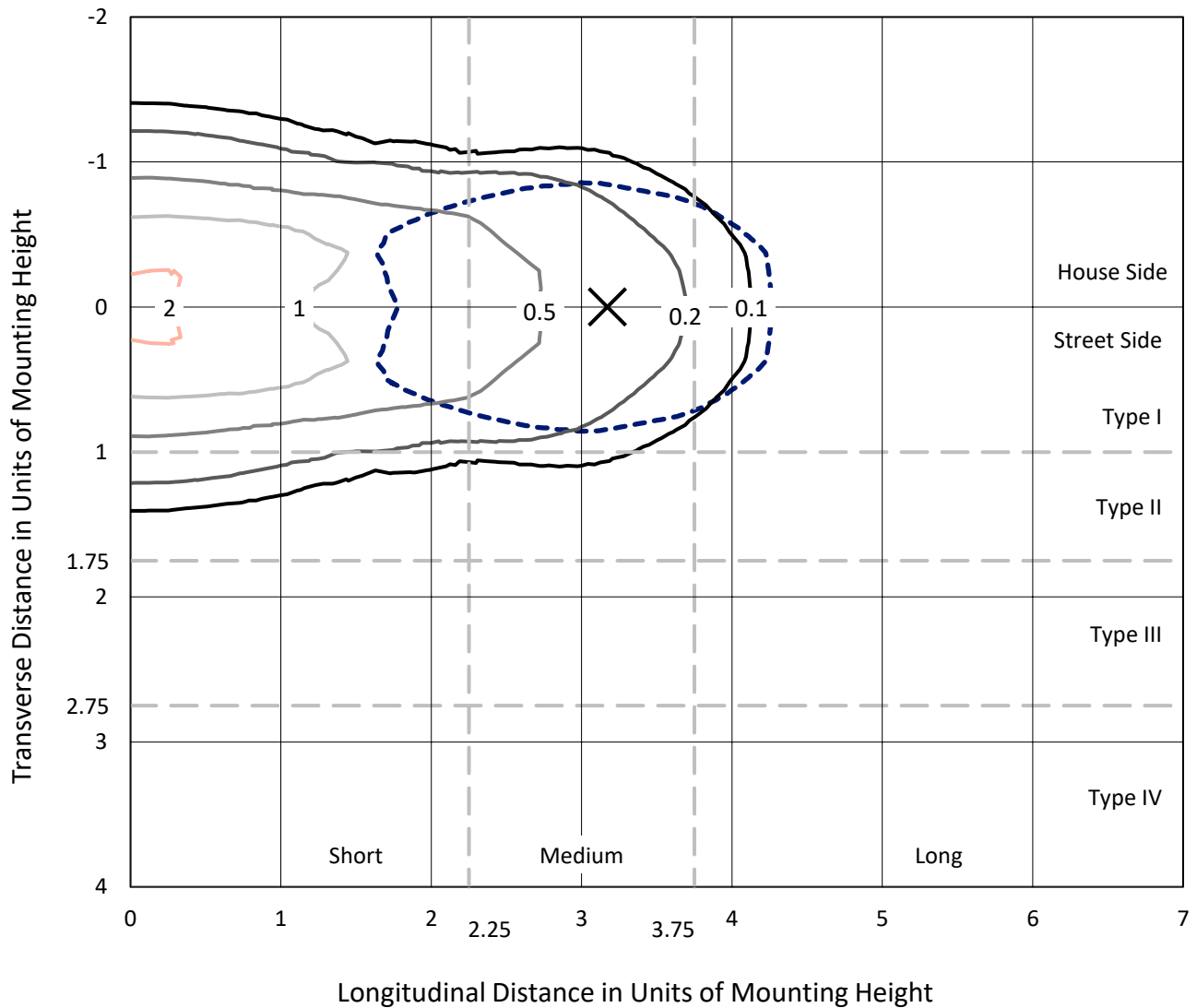
Lumens per Lamp: N/A  
Luminaire Lumens: 7207 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 57.3  
Input Voltage (V): 120.0  
Input Current (Ain): 0.484  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.038  
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

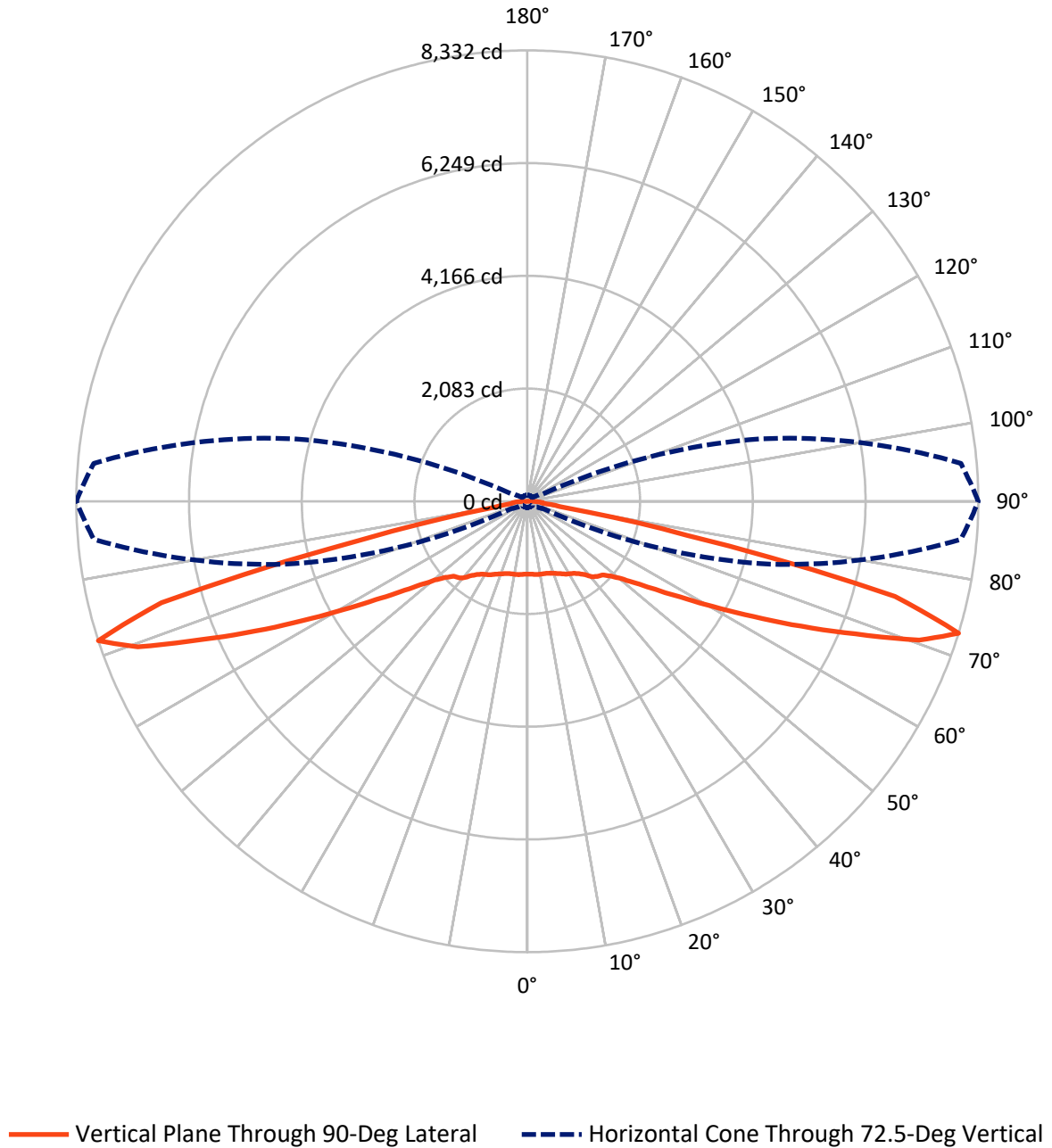
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3603.5	0.0	3603.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3603.5	0.0	3603.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7207.0	0.0	7207.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	1.8
10°-20°	399.3	5.5
20°-30°	665.7	9.2
30°-40°	915.6	12.7
40°-50°	1118.2	15.5
50°-60°	1293.3	17.9
60°-70°	1542.0	21.4
70°-80°	1076.2	14.9
80°-90°	66.1	0.9
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°	7207.0	100.0
0°-180°	7207.0	100.0

**Coefficient of Utilization**



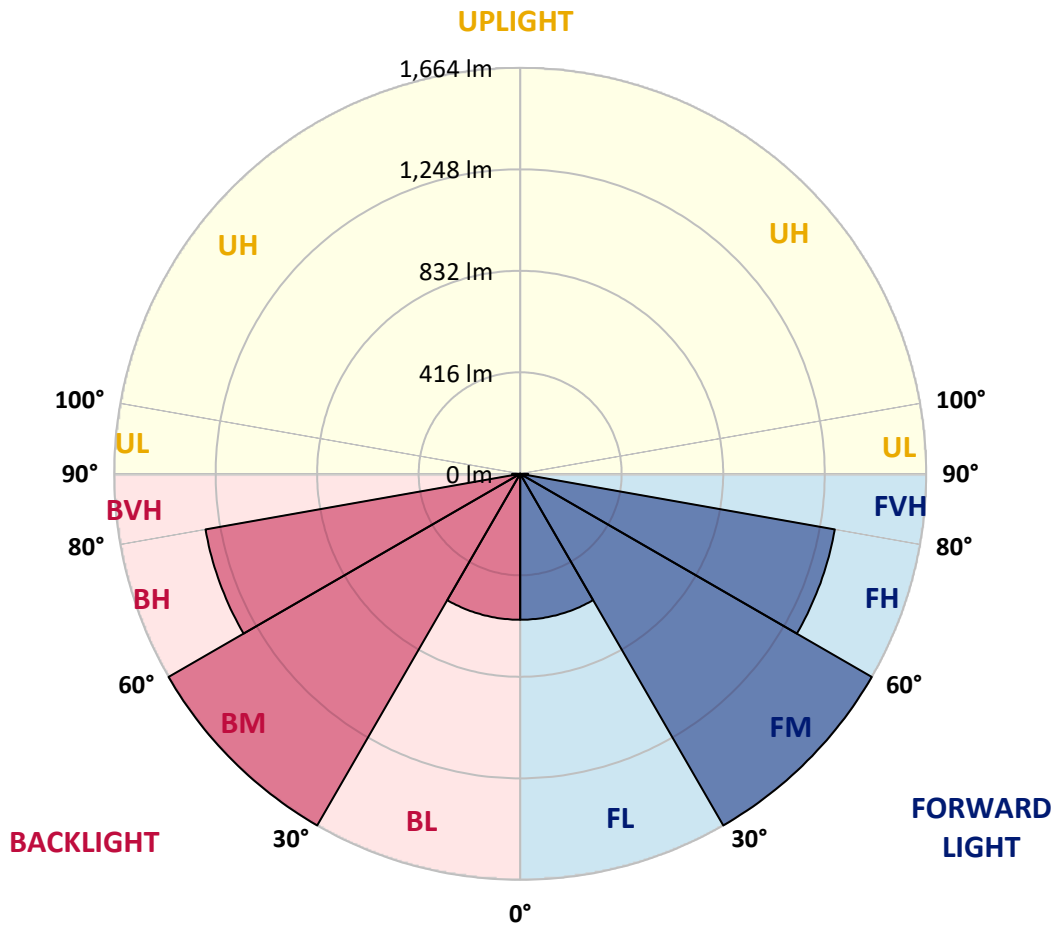
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.8	8.3			
FM (30°-60°)	1663.5	23.1			
FH (60°-80°)	1309.1	18.2			G1/1800
FVH (80°-90°)	33.1	0.5			G1/100
BL (0°-30°)	597.8	8.3	B2/1000		
BM (30°-60°)	1663.5	23.1	B2/2500		
BH (60°-80°)	1309.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	33.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1347.9	1349.4	1349.4	1348.2	1350.9	1348.6	1348.6	1347.5	1348.6	1347.5	1347.5
5°	1354.7	1356.7	1357.4	1357.0	1360.5	1358.6	1358.6	1357.0	1357.4	1356.3	1356.3
7.5°	1367.8	1370.5	1372.0	1373.9	1378.9	1376.6	1375.0	1370.5	1368.5	1365.5	1365.5
10°	1372.0	1375.0	1380.0	1390.0	1401.5	1401.9	1397.3	1385.8	1377.0	1370.1	1368.9
12.5°	1359.0	1363.2	1373.5	1393.8	1419.5	1429.8	1422.5	1403.4	1386.2	1373.9	1372.0
15°	1342.5	1347.1	1362.8	1393.4	1431.4	1455.5	1454.7	1429.4	1401.9	1382.7	1379.6
17.5°	1316.8	1321.4	1344.0	1386.9	1440.5	1480.4	1491.1	1465.1	1426.4	1400.7	1396.5
20°	1270.5	1274.7	1306.1	1366.2	1443.6	1506.8	1534.8	1511.8	1463.5	1428.7	1422.2
22.5°	1210.3	1216.9	1253.6	1330.6	1436.3	1534.4	1584.6	1568.9	1506.8	1458.5	1449.7
25°	1146.0	1152.9	1195.8	1287.0	1417.6	1554.3	1643.5	1633.6	1555.8	1495.7	1483.4
27.5°	1090.5	1097.7	1144.5	1243.7	1388.5	1562.0	1701.8	1706.7	1615.2	1536.7	1523.7
30°	1046.8	1053.7	1103.5	1208.8	1350.9	1554.3	1752.7	1787.2	1675.7	1572.3	1553.5
32.5°	998.9	1007.7	1060.2	1166.3	1306.5	1535.9	1797.1	1874.1	1745.8	1610.6	1586.9
35°	938.4	946.4	1001.6	1108.1	1248.3	1506.4	1834.3	1970.6	1846.2	1668.8	1642.4
37.5°	864.9	872.5	927.3	1035.3	1190.4	1465.1	1862.6	2079.4	1965.7	1752.7	1717.5
40°	790.9	798.2	849.5	954.1	1121.1	1412.2	1872.6	2185.9	2102.8	1868.0	1830.5
42.5°	723.1	729.7	776.8	874.1	1043.4	1344.8	1859.6	2278.6	2225.7	1948.4	1900.2
45°	660.7	666.5	708.2	799.0	962.5	1262.8	1820.5	2378.2	2372.1	2005.9	1940.8
47.5°	589.5	595.2	638.5	726.2	881.7	1166.7	1754.2	2476.2	2575.4	2136.1	2061.0
50°	502.5	507.5	551.9	642.3	797.8	1064.4	1662.3	2553.2	2832.1	2333.4	2239.1
52.5°	399.5	404.9	448.1	538.5	698.2	954.5	1541.3	2603.4	3128.5	2621.4	2505.3
55°	297.2	301.1	338.6	419.8	574.9	829.2	1389.6	2617.6	3464.8	3015.1	2870.0
57.5°	215.6	217.9	242.1	302.6	435.9	672.6	1205.4	2580.8	3865.1	3520.0	3337.3
60°	174.7	175.4	182.7	209.5	303.0	495.6	982.8	2454.4	4299.4	4170.7	3940.5
62.5°	158.6	158.6	160.5	167.8	204.9	327.1	713.6	2192.4	4765.2	4993.1	4684.7
65°	147.5	147.5	148.2	151.7	161.6	208.4	450.4	1765.7	5157.8	5956.4	5566.5
67.5°	137.5	137.9	137.5	138.7	144.4	154.0	261.2	1219.5	5369.2	6954.5	6533.6
70°	127.2	127.9	126.0	126.0	130.6	131.0	163.6	668.8	5193.8	7791.0	7680.3
72.5°	114.9	116.1	113.0	112.2	115.7	114.1	122.9	321.0	4459.1	8040.8	8331.9
75°	104.2	105.7	98.8	96.9	96.9	95.8	100.0	164.7	2894.1	6559.2	7015.8
77.5°	94.6	97.7	86.6	80.4	78.9	75.5	81.6	100.7	1265.9	3079.5	3015.5
80°	78.1	82.3	71.2	64.0	61.3	57.5	64.3	70.5	376.5	715.1	684.8
82.5°	58.2	60.1	50.6	45.6	43.3	40.6	48.3	49.0	122.6	253.2	286.1
85°	37.2	37.9	31.0	26.8	25.7	24.5	30.6	26.8	46.7	186.1	270.4
87.5°	13.0	14.9	11.9	10.7	11.5	9.6	14.2	8.0	13.0	131.4	162.8
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)