

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: P881885

Luminaire Tested: **NAV-SB1C-730-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881885  
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-SB1C-730-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

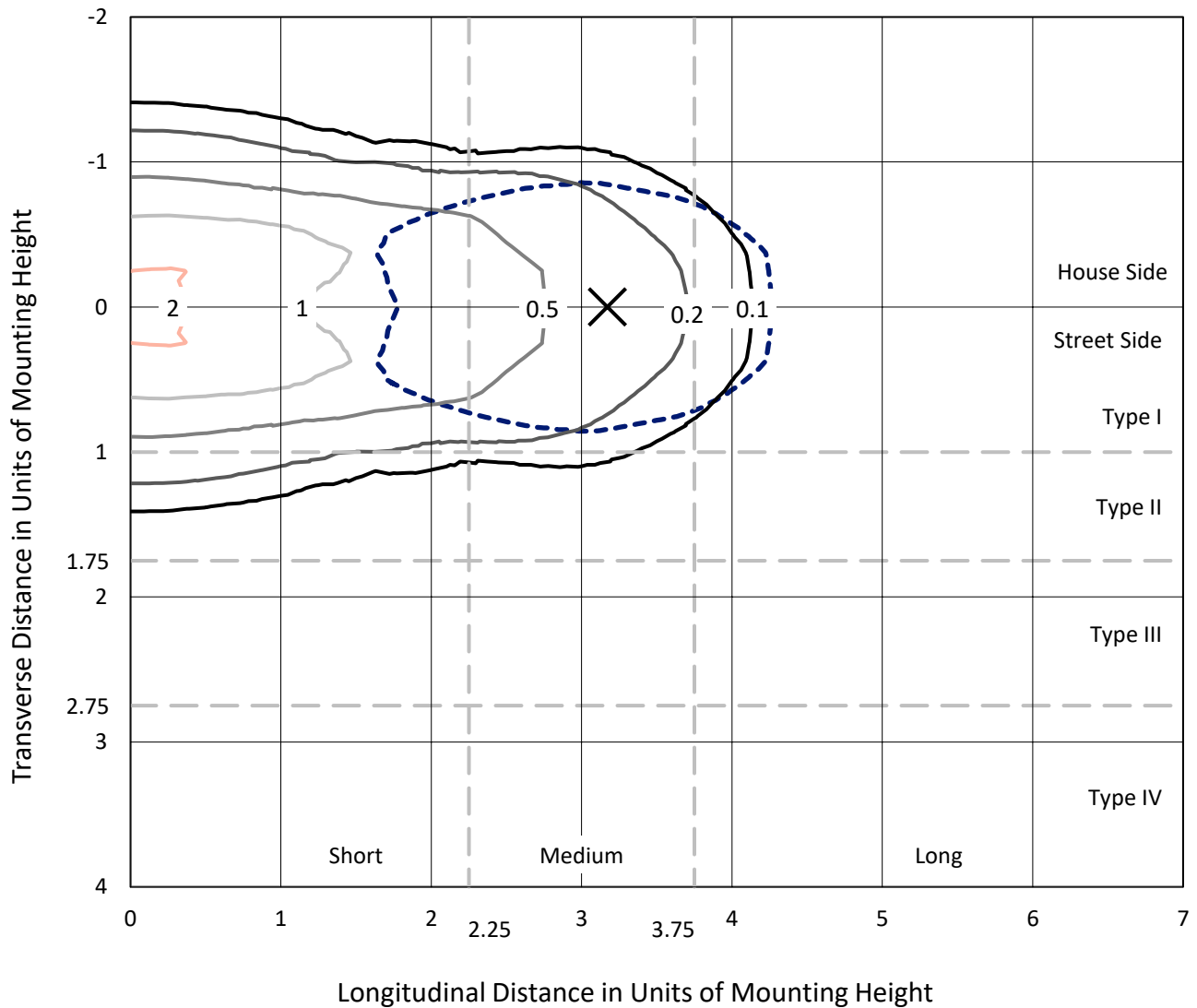
Lumens per Lamp: N/A  
Luminaire Lumens: 7299 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

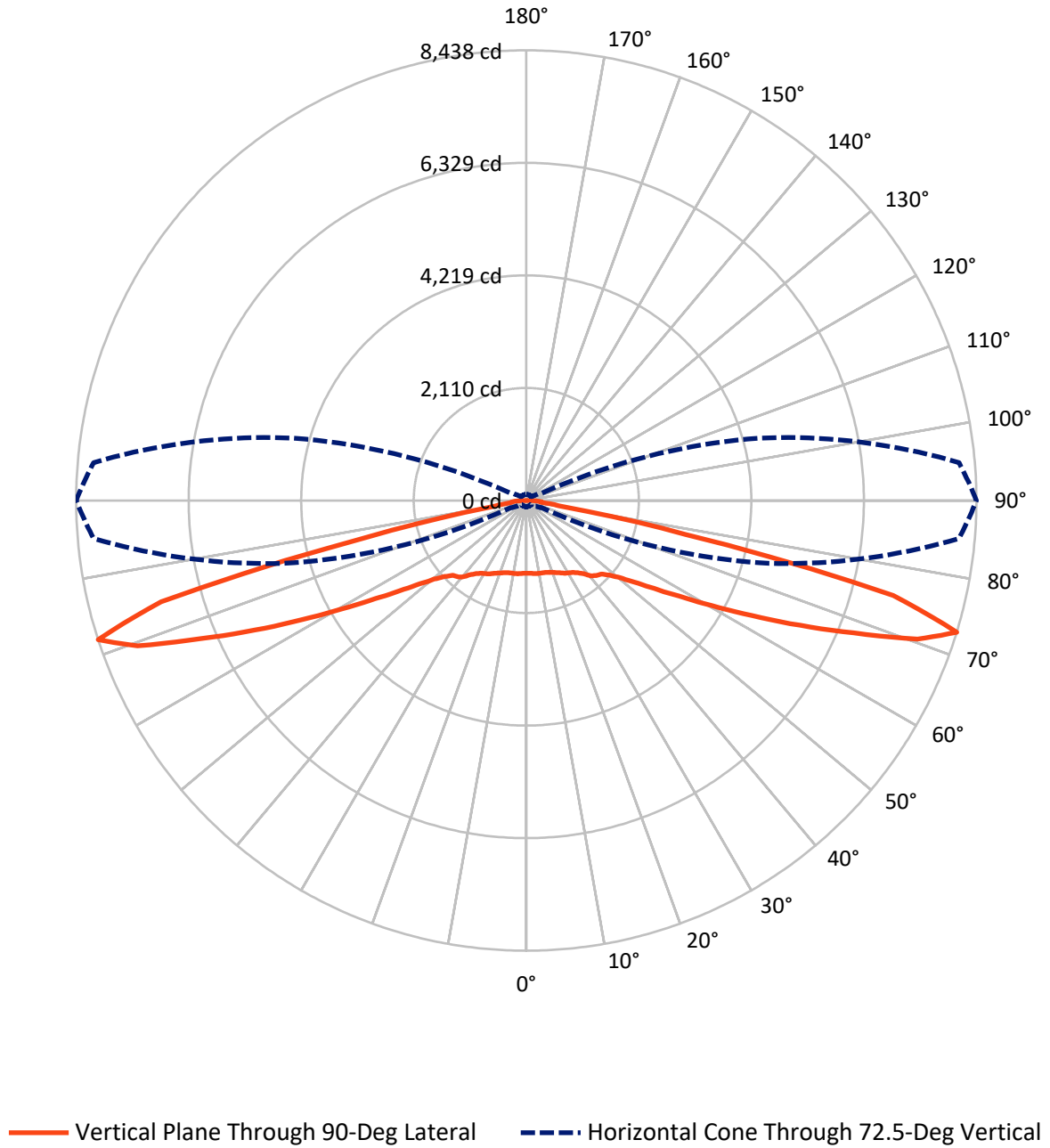
× Max cd  
 - - - 1/2 Max cd



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	3649.5	0.0	3649.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3649.5	0.0	3649.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7299.0	0.0	7299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	1.8
10°-20°	404.4	5.5
20°-30°	674.2	9.2
30°-40°	927.3	12.7
40°-50°	1132.4	15.5
50°-60°	1309.8	17.9
60°-70°	1561.7	21.4
70°-80°	1090.0	14.9
80°-90°	66.9	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°	7299.0	100.0
0°-180°	7299.0	100.0

**Coefficient of Utilization**



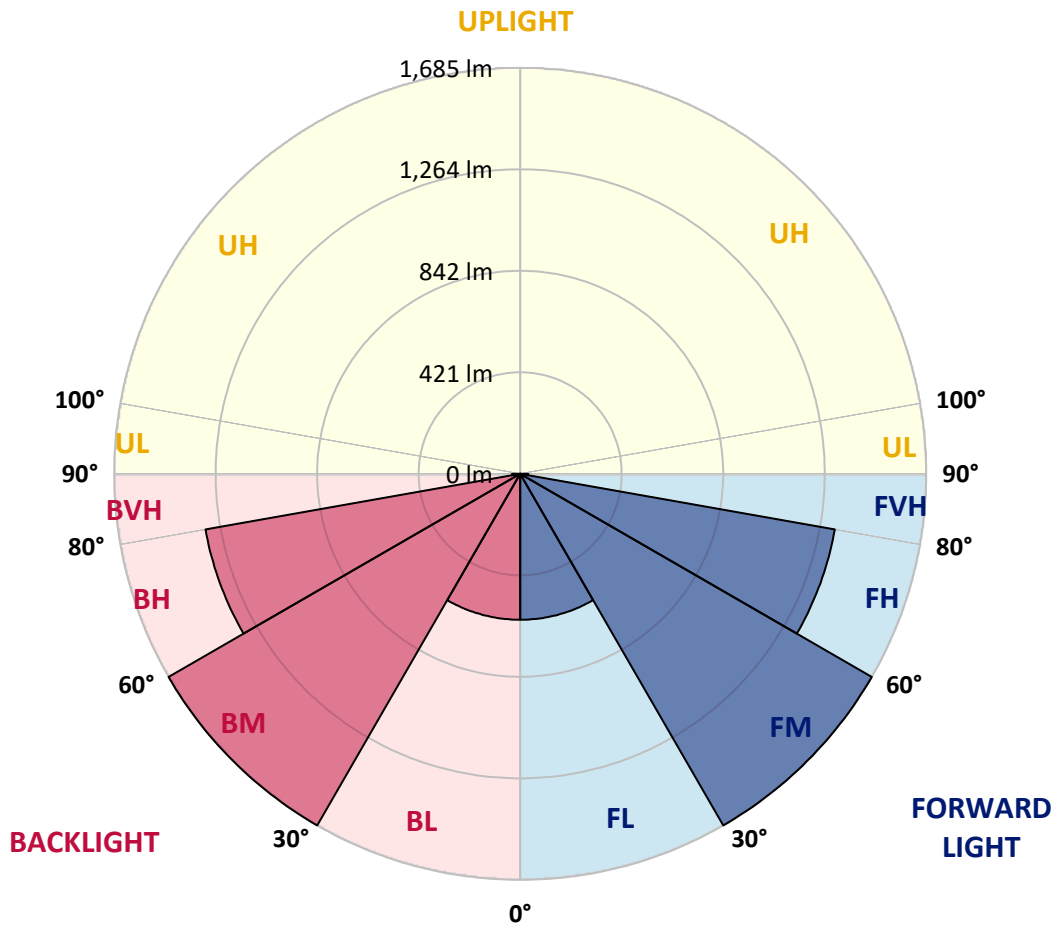
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.4	8.3			
FM (30°-60°)	1684.8	23.1			
FH (60°-80°)	1325.8	18.2			G1/1800
FVH (80°-90°)	33.5	0.5			G1/100
BL (0°-30°)	605.4	8.3	B2/1000		
BM (30°-60°)	1684.8	23.1	B2/2500		
BH (60°-80°)	1325.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	33.5	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°	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1365.1	1366.6	1366.6	1365.4	1368.2	1365.8	1365.8	1364.7	1365.8	1364.7	1364.7
5°	1372.0	1374.0	1374.8	1374.4	1377.9	1375.9	1375.9	1374.4	1374.8	1373.6	1373.6
7.5°	1385.2	1387.9	1389.5	1391.4	1396.5	1394.2	1392.6	1387.9	1386.0	1382.9	1382.9
10°	1389.5	1392.6	1397.6	1407.7	1419.4	1419.8	1415.1	1403.5	1394.5	1387.6	1386.4
12.5°	1376.3	1380.6	1391.0	1411.6	1437.6	1448.1	1440.7	1421.3	1403.9	1391.4	1389.5
15°	1359.6	1364.3	1380.2	1411.2	1449.6	1474.1	1473.3	1447.7	1419.8	1400.4	1397.3
17.5°	1333.6	1338.3	1361.2	1404.6	1458.9	1499.3	1510.1	1483.8	1444.6	1418.6	1414.3
20°	1286.7	1291.0	1322.8	1383.7	1462.0	1526.0	1554.4	1531.1	1482.2	1446.9	1440.3
22.5°	1225.8	1232.4	1269.6	1347.6	1454.7	1554.0	1604.8	1588.9	1526.0	1477.2	1468.2
25°	1160.6	1167.6	1211.1	1303.4	1435.7	1574.1	1664.5	1654.4	1575.7	1514.8	1502.4
27.5°	1104.4	1111.8	1159.1	1259.5	1406.2	1581.9	1723.5	1728.5	1635.8	1556.3	1543.1
30°	1060.2	1067.1	1117.6	1224.2	1368.2	1574.1	1775.1	1810.0	1697.1	1592.4	1573.4
32.5°	1011.7	1020.6	1073.7	1181.2	1323.2	1555.5	1820.1	1898.0	1768.1	1631.2	1607.1
35°	950.4	958.5	1014.4	1122.2	1264.2	1525.7	1857.7	1995.8	1869.7	1690.1	1663.4
37.5°	875.9	883.7	939.1	1048.5	1205.6	1483.8	1886.4	2106.0	1990.8	1775.1	1739.4
40°	801.0	808.4	860.4	966.3	1135.4	1430.2	1896.5	2213.8	2129.6	1891.8	1853.8
42.5°	732.4	739.0	786.7	885.2	1056.7	1362.0	1883.3	2307.7	2254.2	1973.3	1924.4
45°	669.1	675.0	717.2	809.2	974.8	1278.9	1843.7	2408.5	2402.3	2031.5	1965.5
47.5°	597.0	602.8	646.6	735.5	893.0	1181.6	1776.6	2507.8	2608.3	2163.4	2087.3
50°	508.9	514.0	559.0	650.5	808.0	1078.0	1683.5	2585.8	2868.2	2363.2	2267.7
52.5°	404.6	410.0	453.9	545.4	707.2	966.7	1561.0	2636.6	3168.5	2654.9	2537.3
55°	301.0	304.9	342.9	425.2	582.3	839.8	1407.3	2651.0	3509.0	3053.6	2906.6
57.5°	218.4	220.7	245.2	306.4	441.4	681.2	1220.8	2613.7	3914.4	3564.9	3379.9
60°	176.9	177.7	185.0	212.2	306.8	502.0	995.4	2485.7	4354.3	4224.0	3990.8
62.5°	160.6	160.6	162.5	169.9	207.5	331.3	722.7	2220.4	4826.0	5056.8	4744.5
65°	149.3	149.3	150.1	153.6	163.7	211.0	456.2	1788.3	5223.6	6032.4	5637.5
67.5°	139.3	139.6	139.3	140.4	146.2	155.9	264.6	1235.1	5437.7	7043.3	6617.0
70°	128.8	129.6	127.6	127.6	132.3	132.7	165.6	677.3	5260.1	7890.5	7778.4
72.5°	116.4	117.5	114.4	113.7	117.1	115.6	124.5	325.1	4516.1	8143.4	8438.2
75°	105.5	107.1	100.1	98.1	98.1	97.0	101.2	166.8	2931.1	6643.0	7105.4
77.5°	95.8	98.9	87.7	81.5	79.9	76.4	82.6	102.0	1282.0	3118.8	3054.0
80°	79.1	83.4	72.2	64.8	62.1	58.2	65.2	71.4	381.3	724.2	693.6
82.5°	59.0	60.9	51.2	46.2	43.8	41.1	48.9	49.7	124.1	256.4	289.8
85°	37.6	38.4	31.4	27.2	26.0	24.8	31.0	27.2	47.3	188.5	273.9
87.5°	13.2	15.1	12.0	10.9	11.6	9.7	14.4	8.1	13.2	133.1	164.9
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)