

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: P881875

Luminaire Tested: **NAV-SB1C-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881875  
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-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

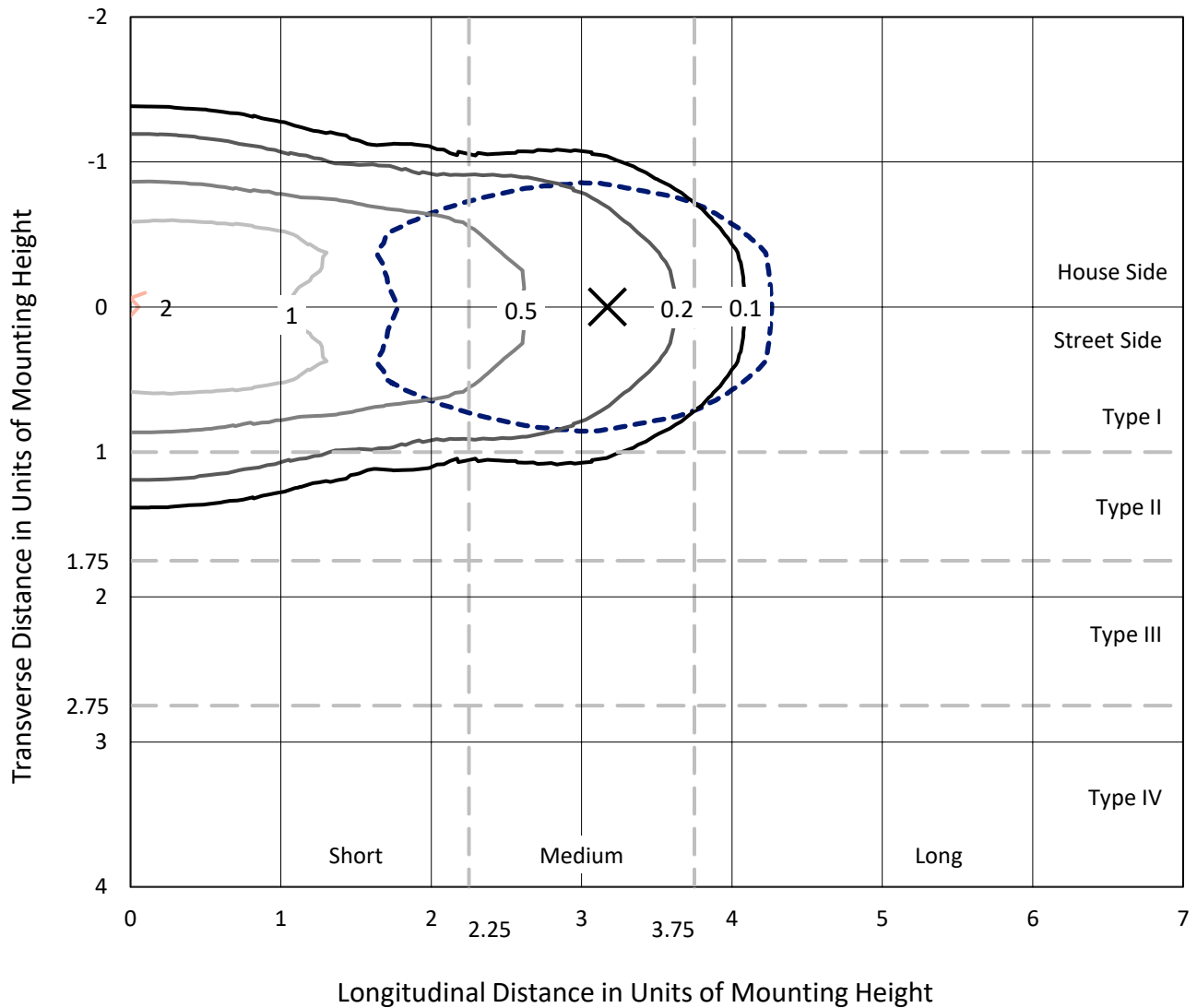
Lumens per Lamp: N/A  
Luminaire Lumens: 6720 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

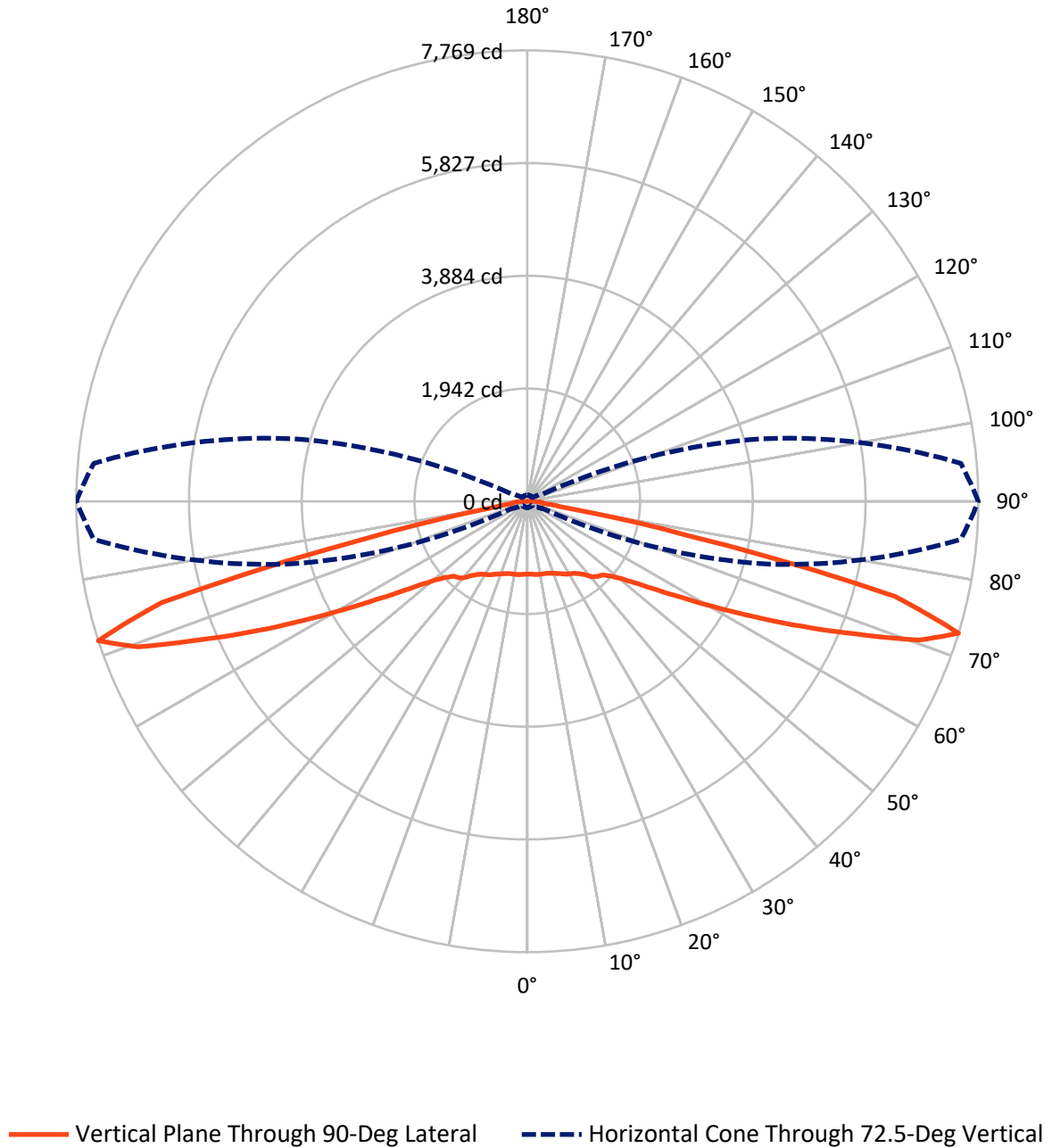
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	3360.0	0.0	3360.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3360.0	0.0	3360.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6720.0	0.0	6720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.8	1.8
10°-20°	372.3	5.5
20°-30°	620.7	9.2
30°-40°	853.7	12.7
40°-50°	1042.6	15.5
50°-60°	1205.9	17.9
60°-70°	1437.8	21.4
70°-80°	1003.5	14.9
80°-90°	61.6	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°	6720.0	100.0
0°-180°	6720.0	100.0

**Coefficient of Utilization**



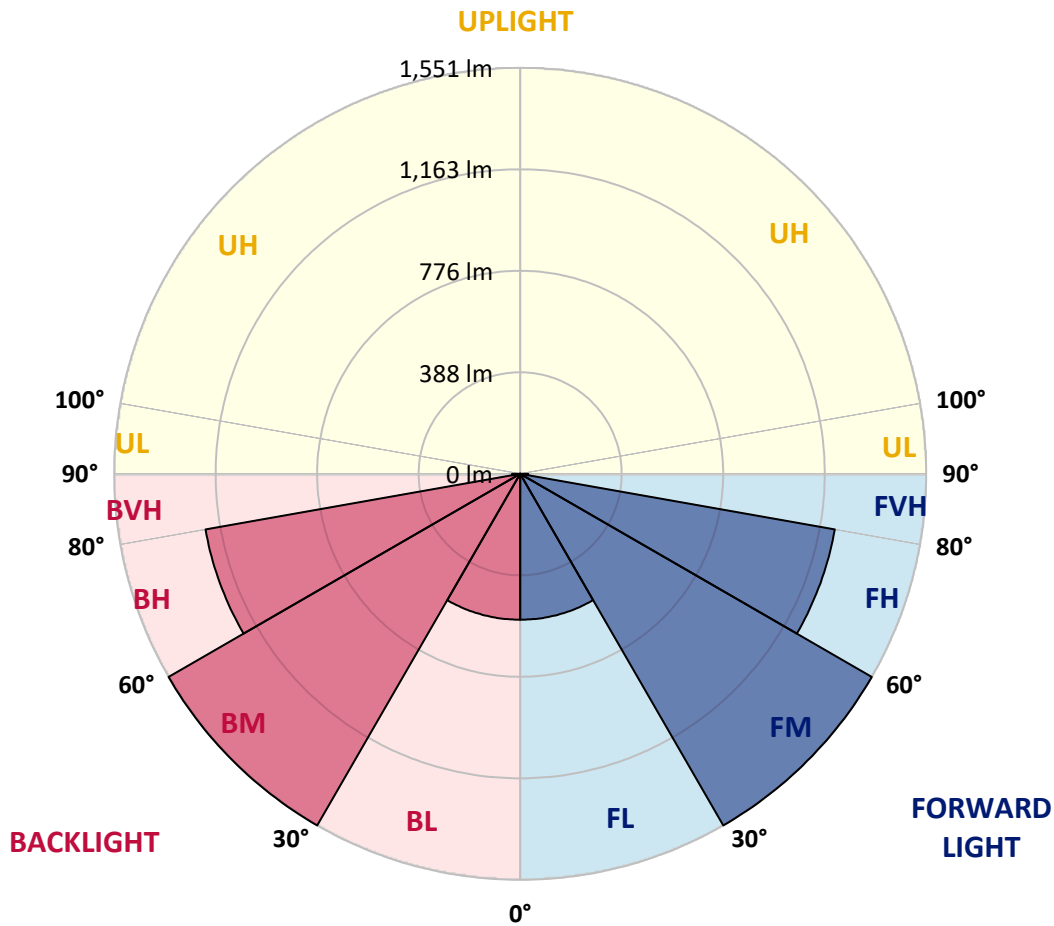
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.4	8.3			
FM (30°-60°)	1551.1	23.1			
FH (60°-80°)	1220.7	18.2			G1/1800
FVH (80°-90°)	30.8	0.5			G1/100
BL (0°-30°)	557.4	8.3	B2/1000		
BM (30°-60°)	1551.1	23.1	B2/2500		
BH (60°-80°)	1220.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	30.8	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°	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7	1255.7
2.5°	1256.8	1258.2	1258.2	1257.1	1259.6	1257.5	1257.5	1256.4	1257.5	1256.4	1256.4
5°	1263.2	1265.0	1265.7	1265.3	1268.6	1266.8	1266.8	1265.3	1265.7	1264.6	1264.6
7.5°	1275.3	1277.8	1279.3	1281.1	1285.7	1283.6	1282.1	1277.8	1276.1	1273.2	1273.2
10°	1279.3	1282.1	1286.8	1296.1	1306.8	1307.1	1302.8	1292.1	1283.9	1277.5	1276.4
12.5°	1267.1	1271.1	1280.7	1299.6	1323.6	1333.2	1326.4	1308.6	1292.5	1281.1	1279.3
15°	1251.8	1256.1	1270.7	1299.3	1334.6	1357.1	1356.4	1332.8	1307.1	1289.3	1286.4
17.5°	1227.8	1232.1	1253.2	1293.2	1343.2	1380.3	1390.3	1366.1	1330.0	1306.1	1302.1
20°	1184.6	1188.6	1217.8	1273.9	1346.1	1405.0	1431.1	1409.6	1364.6	1332.1	1326.1
22.5°	1128.6	1134.6	1168.9	1240.7	1339.3	1430.7	1477.5	1462.8	1405.0	1360.0	1351.8
25°	1068.6	1075.0	1115.0	1200.0	1321.8	1449.3	1532.5	1523.2	1450.7	1394.6	1383.2
27.5°	1016.8	1023.6	1067.1	1159.6	1294.6	1456.4	1586.8	1591.4	1506.1	1432.8	1420.7
30°	976.1	982.5	1028.9	1127.1	1259.6	1449.3	1634.3	1666.4	1562.5	1466.1	1448.6
32.5°	931.4	939.6	988.6	1087.5	1218.2	1432.1	1675.7	1747.5	1627.8	1501.8	1479.6
35°	875.0	882.5	933.9	1033.2	1163.9	1404.6	1710.3	1837.5	1721.4	1556.1	1531.4
37.5°	806.4	813.6	864.6	965.3	1110.0	1366.1	1736.8	1938.9	1832.8	1634.3	1601.4
40°	737.5	744.3	792.1	889.6	1045.3	1316.8	1746.1	2038.2	1960.7	1741.8	1706.8
42.5°	674.3	680.4	724.3	815.0	972.8	1253.9	1733.9	2124.6	2075.3	1816.8	1771.8
45°	616.1	621.4	660.4	745.0	897.5	1177.5	1697.5	2217.5	2211.8	1870.3	1809.6
47.5°	549.6	555.0	595.4	677.1	822.1	1087.8	1635.7	2308.9	2401.4	1991.8	1921.8
50°	468.6	473.2	514.6	598.9	743.9	992.5	1550.0	2380.7	2640.7	2175.7	2087.8
52.5°	372.5	377.5	417.9	502.1	651.1	890.0	1437.1	2427.5	2917.1	2444.3	2336.1
55°	277.1	280.7	315.7	391.4	536.1	773.2	1295.7	2440.7	3230.7	2811.4	2676.0
57.5°	201.1	203.2	225.7	282.1	406.4	627.1	1123.9	2406.4	3603.9	3282.1	3111.8
60°	162.9	163.6	170.4	195.4	282.5	462.1	916.4	2288.6	4008.9	3888.9	3674.3
62.5°	147.9	147.9	149.6	156.4	191.1	305.0	665.4	2044.3	4443.2	4655.7	4368.2
65°	137.5	137.5	138.2	141.4	150.7	194.3	420.0	1646.4	4809.2	5553.9	5190.3
67.5°	128.2	128.6	128.2	129.3	134.6	143.6	243.6	1137.1	5006.4	6484.6	6092.1
70°	118.6	119.3	117.5	117.5	121.8	122.1	152.5	623.6	4842.8	7264.6	7161.4
72.5°	107.1	108.2	105.4	104.6	107.9	106.4	114.6	299.3	4157.8	7497.4	7768.9
75°	97.1	98.6	92.1	90.4	90.4	89.3	93.2	153.6	2698.5	6116.0	6541.7
77.5°	88.2	91.1	80.7	75.0	73.6	70.4	76.1	93.9	1180.3	2871.4	2811.8
80°	72.9	76.8	66.4	59.6	57.1	53.6	60.0	65.7	351.1	666.8	638.6
82.5°	54.3	56.1	47.1	42.5	40.4	37.9	45.0	45.7	114.3	236.1	266.8
85°	34.6	35.4	28.9	25.0	23.9	22.9	28.6	25.0	43.6	173.6	252.1
87.5°	12.1	13.9	11.1	10.0	10.7	8.9	13.2	7.5	12.1	122.5	151.8
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)