

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: P960288

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
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: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7045.8 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

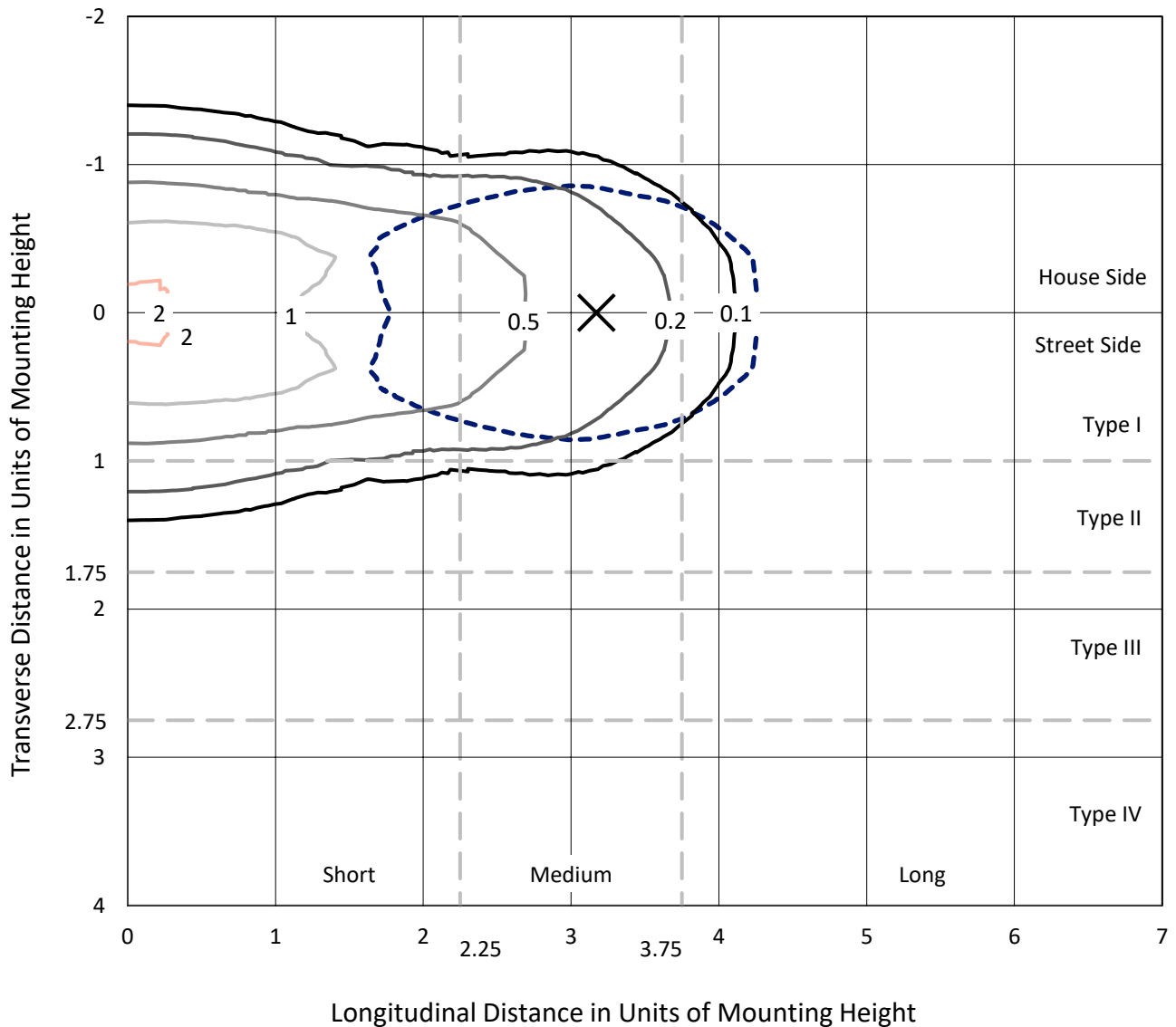
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

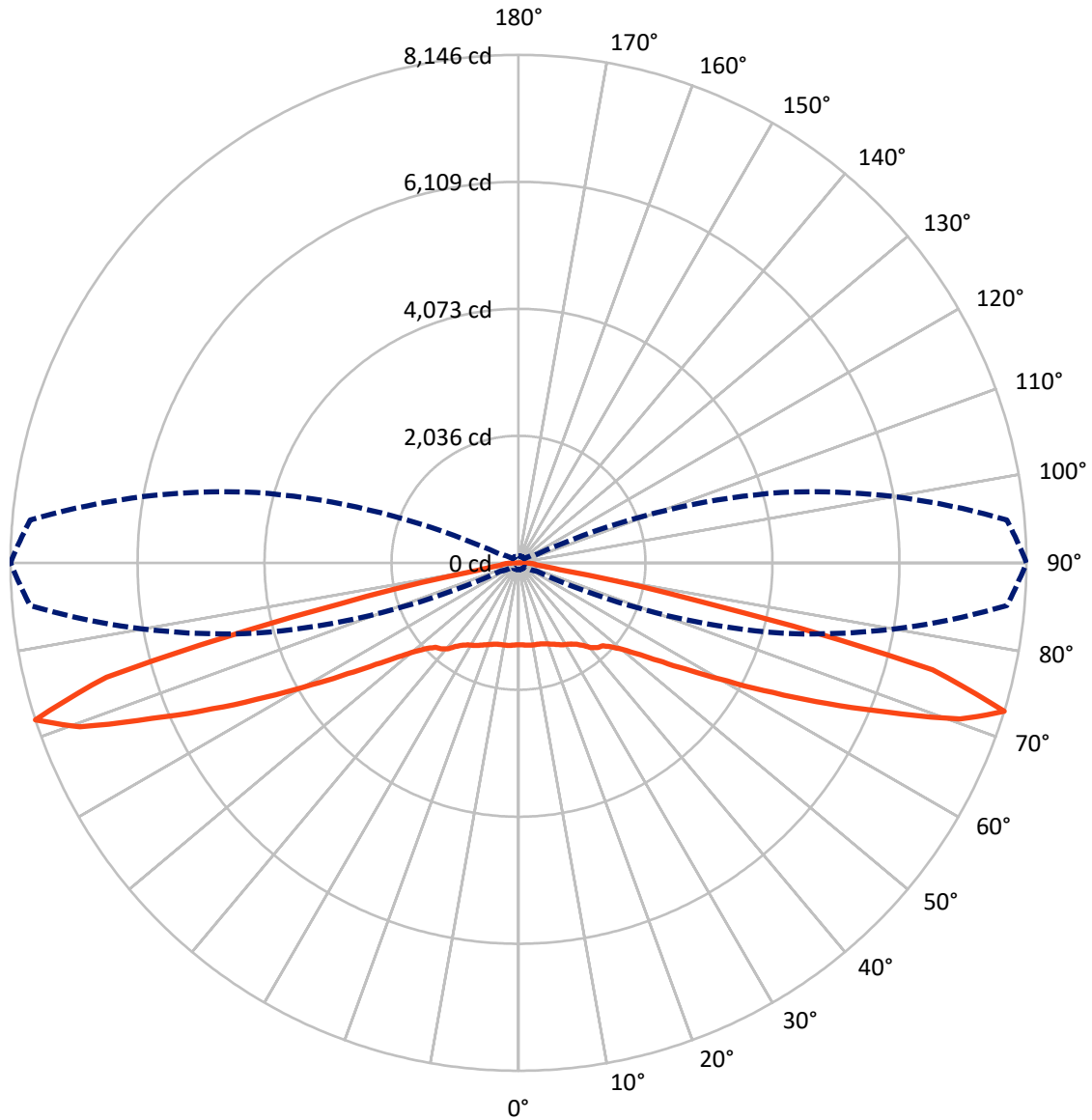
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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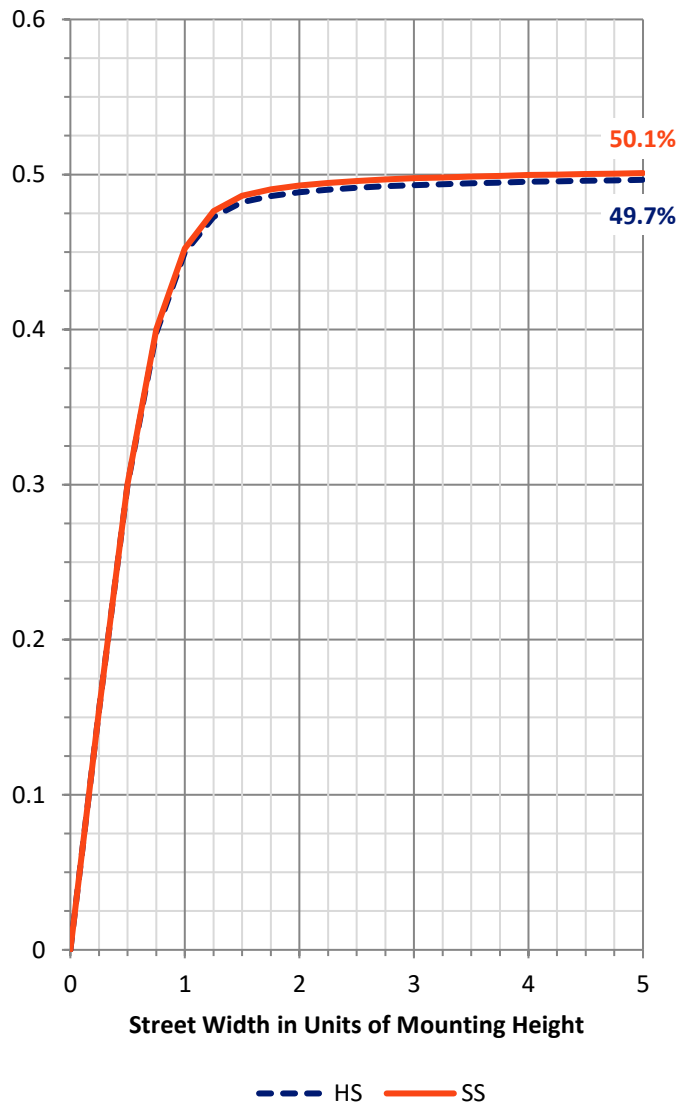
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3522.9	0.0	3522.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3522.9	0.0	3522.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7045.8	0.0	7045.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	1.8
10°-20°	390.3	5.5
20°-30°	650.8	9.2
30°-40°	895.1	12.7
40°-50°	1093.2	15.5
50°-60°	1264.4	17.9
60°-70°	1507.6	21.4
70°-80°	1052.2	14.9
80°-90°	64.6	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°	7045.8	100.0
0°-180°	7045.8	100.0

**Coefficient of Utilization**



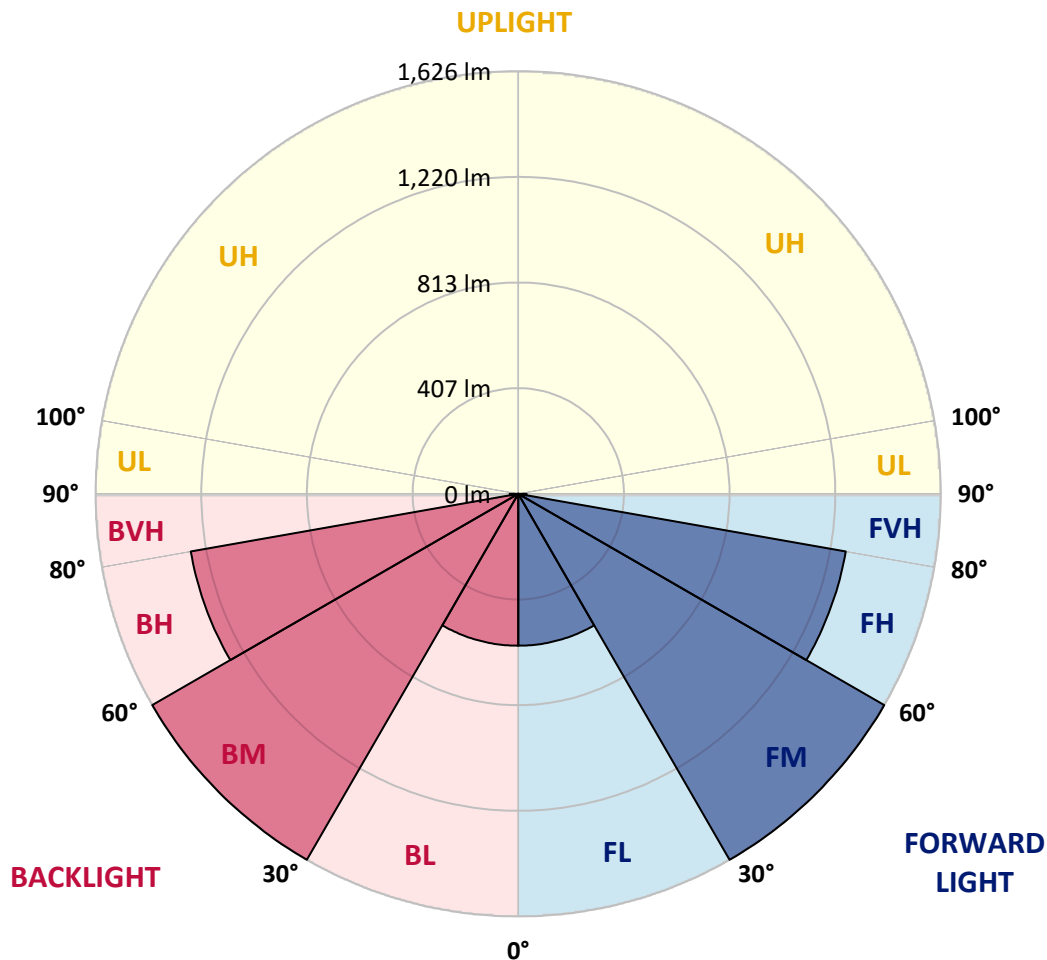
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.4	8.3			
FM (30°-60°)	1626.3	23.1			
FH (60°-80°)	1279.9	18.2			G1/1800
FVH (80°-90°)	32.3	0.5			G1/100
BL (0°-30°)	584.4	8.3	B2/1000		
BM (30°-60°)	1626.3	23.1	B2/2500		
BH (60°-80°)	1279.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	32.3	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°	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6	1316.6
2.5°	1317.7	1319.2	1319.2	1318.0	1320.7	1318.5	1318.5	1317.3	1318.5	1317.3	1317.3
5°	1324.5	1326.4	1327.1	1326.7	1330.0	1328.2	1328.2	1326.7	1327.1	1325.9	1325.9
7.5°	1337.2	1339.8	1341.3	1343.2	1348.1	1345.8	1344.3	1339.8	1337.9	1335.0	1335.0
10°	1341.3	1344.3	1349.2	1358.9	1370.1	1370.5	1366.0	1354.7	1346.1	1339.5	1338.3
12.5°	1328.6	1332.7	1342.9	1362.6	1387.7	1397.9	1390.7	1372.0	1355.2	1343.2	1341.3
15°	1312.5	1316.9	1332.3	1362.2	1399.3	1422.9	1422.2	1397.5	1370.5	1351.8	1348.8
17.5°	1287.4	1291.9	1313.9	1355.9	1408.4	1447.3	1457.8	1432.3	1394.5	1369.4	1365.3
20°	1242.1	1246.2	1276.9	1335.7	1411.3	1473.1	1500.5	1477.9	1430.8	1396.8	1390.3
22.5°	1183.3	1189.6	1225.6	1300.8	1404.2	1500.1	1549.1	1533.8	1473.1	1426.0	1417.4
25°	1120.3	1127.1	1169.0	1258.2	1385.9	1519.6	1606.8	1597.1	1521.0	1462.3	1450.3
27.5°	1066.1	1073.2	1118.9	1215.9	1357.4	1527.0	1663.7	1668.6	1579.1	1502.3	1489.6
30°	1023.4	1030.1	1078.8	1181.8	1320.7	1519.6	1713.5	1747.2	1638.3	1537.2	1518.8
32.5°	976.6	985.2	1036.5	1140.2	1277.3	1501.5	1757.0	1832.2	1706.7	1574.6	1551.3
35°	917.4	925.3	979.2	1083.3	1220.4	1472.7	1793.2	1926.6	1804.9	1631.5	1605.7
37.5°	845.5	853.0	906.5	1012.2	1163.8	1432.3	1821.0	2032.9	1921.7	1713.5	1679.1
40°	773.3	780.3	830.6	932.7	1096.0	1380.6	1830.8	2137.0	2055.7	1826.2	1789.5
42.5°	706.9	713.3	759.4	854.5	1020.0	1314.8	1817.9	2227.6	2176.0	1904.9	1857.7
45°	646.0	651.6	692.4	781.2	941.1	1234.6	1779.8	2325.0	2319.1	1961.0	1897.4
47.5°	576.3	581.9	624.2	710.0	862.0	1140.6	1715.0	2420.8	2517.8	2088.3	2014.9
50°	491.3	496.2	539.6	627.9	780.0	1040.6	1625.1	2496.2	2768.7	2281.2	2189.1
52.5°	390.5	395.8	438.1	526.4	682.6	933.2	1506.9	2545.2	3058.6	2562.8	2449.3
55°	290.6	294.3	331.0	410.4	562.1	810.7	1358.5	2559.0	3387.3	2947.7	2805.8
57.5°	210.8	213.1	236.7	295.8	426.1	657.5	1178.4	2523.1	3778.7	3441.2	3262.7
60°	170.8	171.5	178.7	204.8	296.2	484.5	960.8	2399.5	4203.3	4077.4	3852.5
62.5°	155.0	155.0	156.9	164.0	200.3	319.8	697.6	2143.4	4658.6	4881.5	4580.0
65°	144.1	144.1	144.9	148.3	158.1	203.7	440.3	1726.2	5042.5	5823.2	5442.0
67.5°	134.5	134.8	134.5	135.5	141.1	150.6	255.4	1192.3	5249.1	6799.0	6387.5
70°	124.3	125.0	123.2	123.2	127.7	128.0	159.9	653.8	5077.6	7616.9	7508.6
72.5°	112.3	113.5	110.5	109.7	113.1	111.6	120.2	313.8	4359.4	7860.9	8145.6
75°	101.9	103.3	96.7	94.7	94.7	93.6	97.7	161.0	2829.4	6412.6	6858.9
77.5°	92.5	95.5	84.7	78.6	77.2	73.8	79.7	98.5	1237.6	3010.6	2948.1
80°	76.4	80.5	69.7	62.5	60.0	56.2	62.9	68.9	368.1	699.2	669.5
82.5°	56.9	58.8	49.4	44.6	42.3	39.7	47.2	48.0	119.8	247.5	279.7
85°	36.3	37.1	30.3	26.2	25.1	24.0	29.9	26.2	45.7	181.9	264.3
87.5°	12.7	14.6	11.6	10.5	11.3	9.3	13.8	7.9	12.7	128.4	159.2
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)