

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: P882045

Luminaire Tested: **NAV-SB1D-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882045  
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-SB1D-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

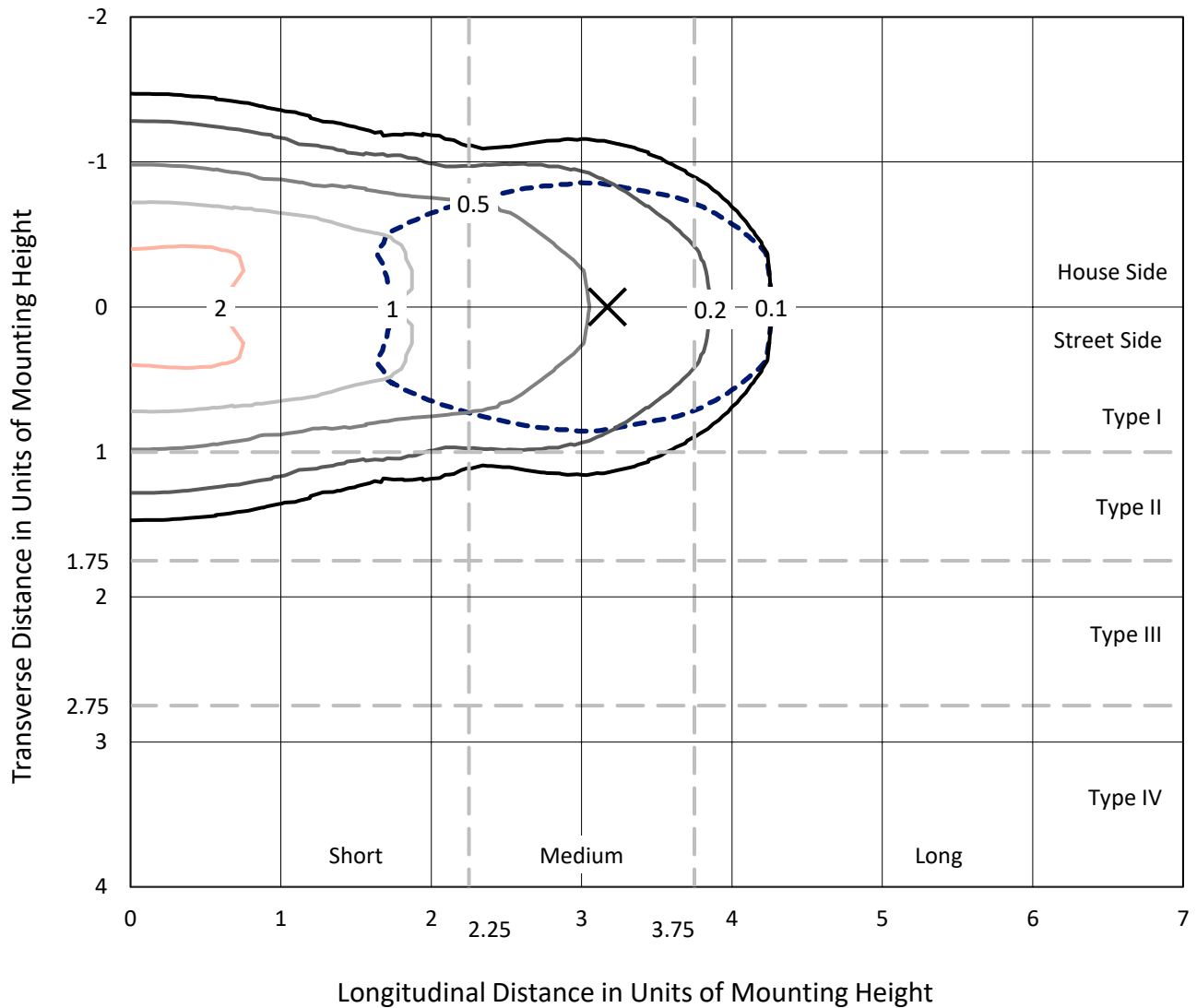
Lumens per Lamp: N/A  
Luminaire Lumens: 9131 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.638  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.673  
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

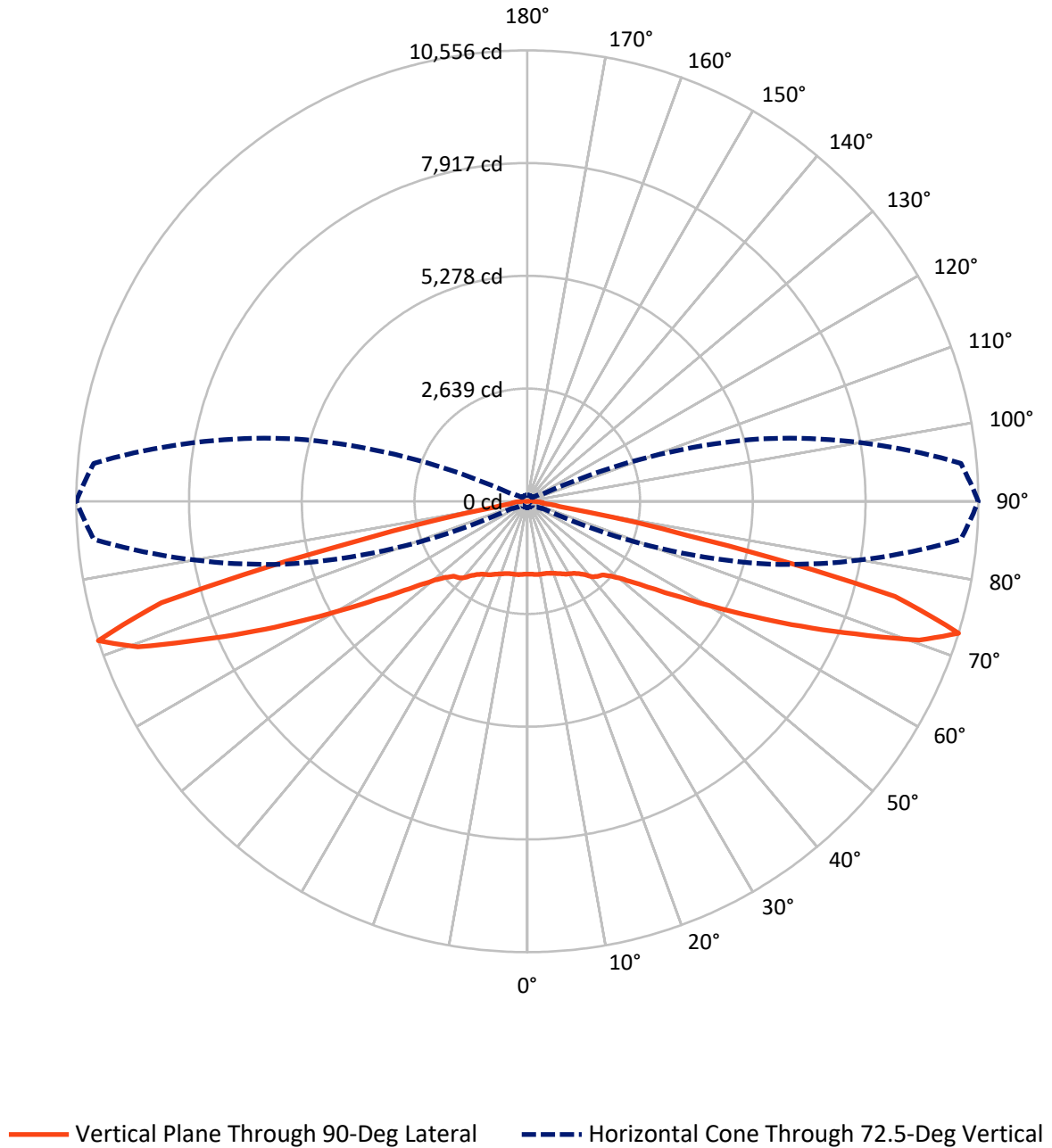
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	4565.5	0.0	4565.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4565.5	0.0	4565.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9131.0	0.0	9131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	1.8
10°-20°	505.8	5.5
20°-30°	843.5	9.2
30°-40°	1160.0	12.7
40°-50°	1416.7	15.5
50°-60°	1638.6	17.9
60°-70°	1953.7	21.4
70°-80°	1363.6	14.9
80°-90°	83.7	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°	9131.0	100.0
0°-180°	9131.0	100.0

**Coefficient of Utilization**



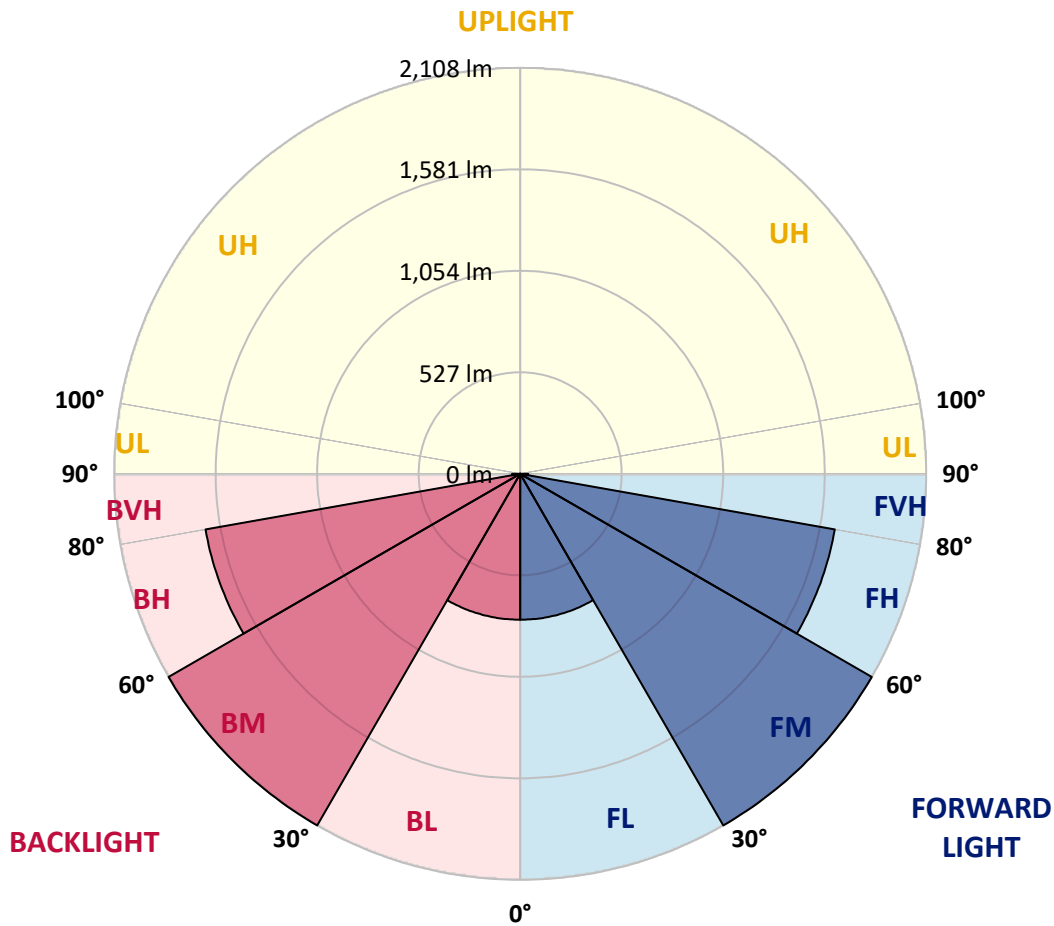
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.4	8.3			
FM (30°-60°)	2107.6	23.1			
FH (60°-80°)	1658.6	18.2			G1/1800
FVH (80°-90°)	41.9	0.5			G1/100
BL (0°-30°)	757.4	8.3	B2/1000		
BM (30°-60°)	2107.6	23.1	B2/2500		
BH (60°-80°)	1658.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	41.9	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°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1707.7	1709.6	1709.6	1708.2	1711.6	1708.7	1708.7	1707.2	1708.7	1707.2	1707.2
5°	1716.4	1718.8	1719.8	1719.3	1723.7	1721.3	1721.3	1719.3	1719.8	1718.4	1718.4
7.5°	1732.9	1736.3	1738.3	1740.7	1747.0	1744.1	1742.1	1736.3	1733.9	1730.0	1730.0
10°	1738.3	1742.1	1748.4	1761.1	1775.6	1776.1	1770.3	1755.7	1744.6	1735.8	1734.4
12.5°	1721.8	1727.1	1740.2	1765.9	1798.4	1811.5	1802.3	1778.0	1756.2	1740.7	1738.3
15°	1700.9	1706.7	1726.6	1765.4	1813.5	1844.0	1843.1	1811.0	1776.1	1751.8	1748.0
17.5°	1668.4	1674.2	1702.8	1757.2	1825.1	1875.6	1889.2	1856.2	1807.2	1774.6	1769.3
20°	1609.7	1615.0	1654.8	1731.0	1829.0	1909.1	1944.5	1915.4	1854.2	1810.1	1801.8
22.5°	1533.5	1541.7	1588.3	1685.8	1819.8	1944.0	2007.6	1987.7	1909.1	1847.9	1836.8
25°	1451.9	1460.7	1515.0	1630.5	1796.0	1969.2	2082.3	2069.7	1971.2	1895.0	1879.5
27.5°	1381.6	1390.8	1450.0	1575.7	1759.1	1978.9	2156.1	2162.4	2046.4	1946.9	1930.4
30°	1326.3	1335.0	1398.1	1531.5	1711.6	1969.2	2220.6	2264.3	2123.1	1992.1	1968.3
32.5°	1265.6	1276.8	1343.2	1477.7	1655.3	1945.9	2276.9	2374.4	2211.9	2040.6	2010.5
35°	1188.9	1199.1	1269.0	1403.9	1581.5	1908.6	2324.0	2496.7	2339.0	2114.3	2080.9
37.5°	1095.7	1105.5	1174.8	1311.7	1508.2	1856.2	2359.9	2634.6	2490.4	2220.6	2176.0
40°	1002.1	1011.3	1076.3	1208.8	1420.4	1789.2	2372.5	2769.5	2664.2	2366.7	2319.1
42.5°	916.2	924.4	984.1	1107.4	1321.9	1703.8	2356.0	2886.9	2819.9	2468.6	2407.4
45°	837.1	844.4	897.3	1012.3	1219.5	1599.9	2306.5	3013.1	3005.3	2541.4	2458.9
47.5°	746.8	754.1	809.0	920.1	1117.1	1478.1	2222.6	3137.3	3263.0	2706.4	2611.3
50°	636.7	643.0	699.3	813.8	1010.8	1348.6	2106.1	3234.8	3588.1	2956.3	2836.9
52.5°	506.1	512.9	567.8	682.3	884.7	1209.3	1952.7	3298.4	3963.7	3321.2	3174.2
55°	376.6	381.4	429.0	531.9	728.4	1050.6	1760.6	3316.4	4389.8	3820.1	3636.2
57.5°	273.2	276.1	306.7	383.4	552.2	852.1	1527.2	3269.8	4896.9	4459.7	4228.2
60°	221.3	222.3	231.5	265.4	383.9	627.9	1245.2	3109.6	5447.2	5284.1	4992.5
62.5°	200.9	200.9	203.3	212.6	259.6	414.4	904.1	2777.7	6037.3	6326.0	5935.4
65°	186.8	186.8	187.8	192.2	204.8	264.0	570.7	2237.1	6534.7	7546.5	7052.5
67.5°	174.2	174.7	174.2	175.7	182.9	195.1	331.0	1545.1	6802.6	8811.1	8277.8
70°	161.1	162.1	159.7	159.7	165.5	166.0	207.2	847.3	6580.3	9871.0	9730.7
72.5°	145.6	147.0	143.2	142.2	146.6	144.6	155.8	406.7	5649.6	10187.4	10556.2
75°	132.0	133.9	125.2	122.8	122.8	121.3	126.7	208.7	3666.7	8310.3	8888.8
77.5°	119.9	123.7	109.7	101.9	100.0	95.6	103.4	127.6	1603.8	3901.6	3820.6
80°	99.0	104.3	90.3	81.0	77.6	72.8	81.5	89.3	477.0	906.0	867.7
82.5°	73.8	76.2	64.1	57.7	54.8	51.4	61.1	62.1	155.3	320.8	362.5
85°	47.1	48.0	39.3	34.0	32.5	31.1	38.8	34.0	59.2	235.8	342.6
87.5°	16.5	18.9	15.0	13.6	14.6	12.1	18.0	10.2	16.5	166.4	206.2
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)