

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: P961342

Luminaire Tested: **NAV-SB2A-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961342  
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-SB2A-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8436.8 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

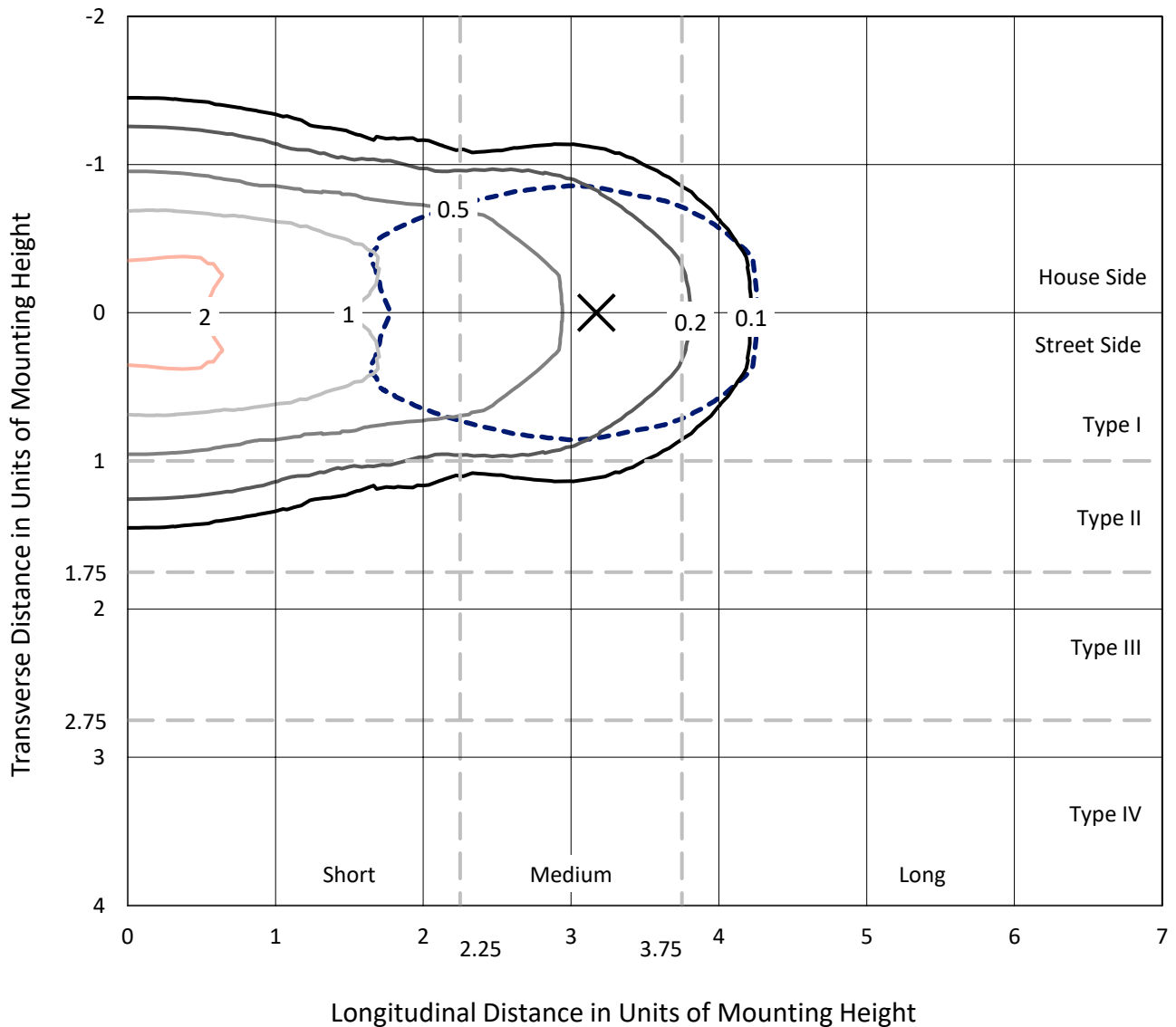
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P961342  
 CATALOG NUMBER: NAV-SB2A-727-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

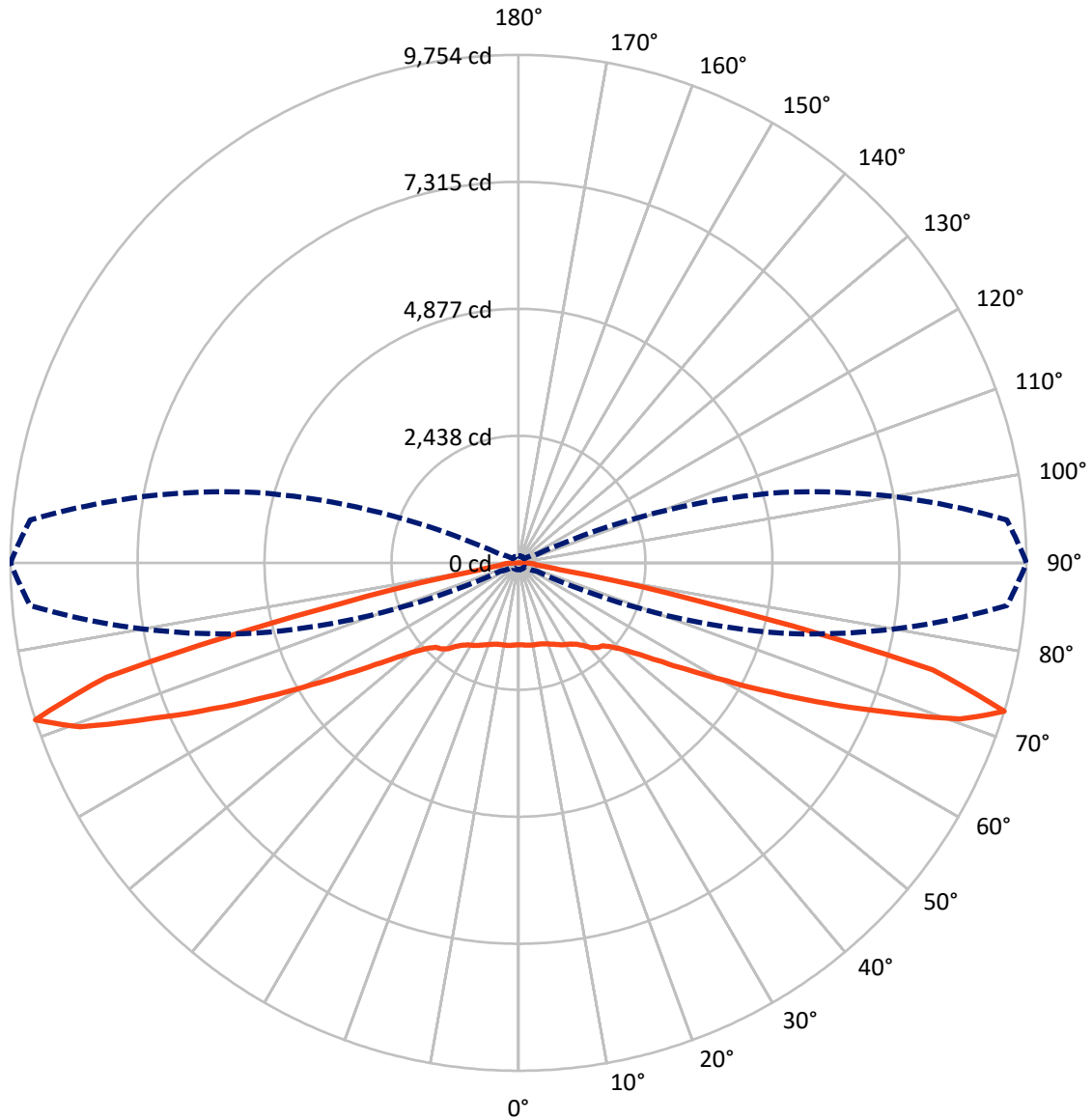
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P961342  
CATALOG NUMBER: NAV-SB2A-727-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P961342  
 CATALOG NUMBER: NAV-SB2A-727-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4218.4	0.0	4218.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4218.4	0.0	4218.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8436.8	0.0	8436.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	1.8
10°-20°	467.4	5.5
20°-30°	779.3	9.2
30°-40°	1071.8	12.7
40°-50°	1309.0	15.5
50°-60°	1514.0	17.9
60°-70°	1805.2	21.4
70°-80°	1259.9	14.9
80°-90°	77.4	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°	8436.8	100.0
0°-180°	8436.8	100.0

**Coefficient of Utilization**



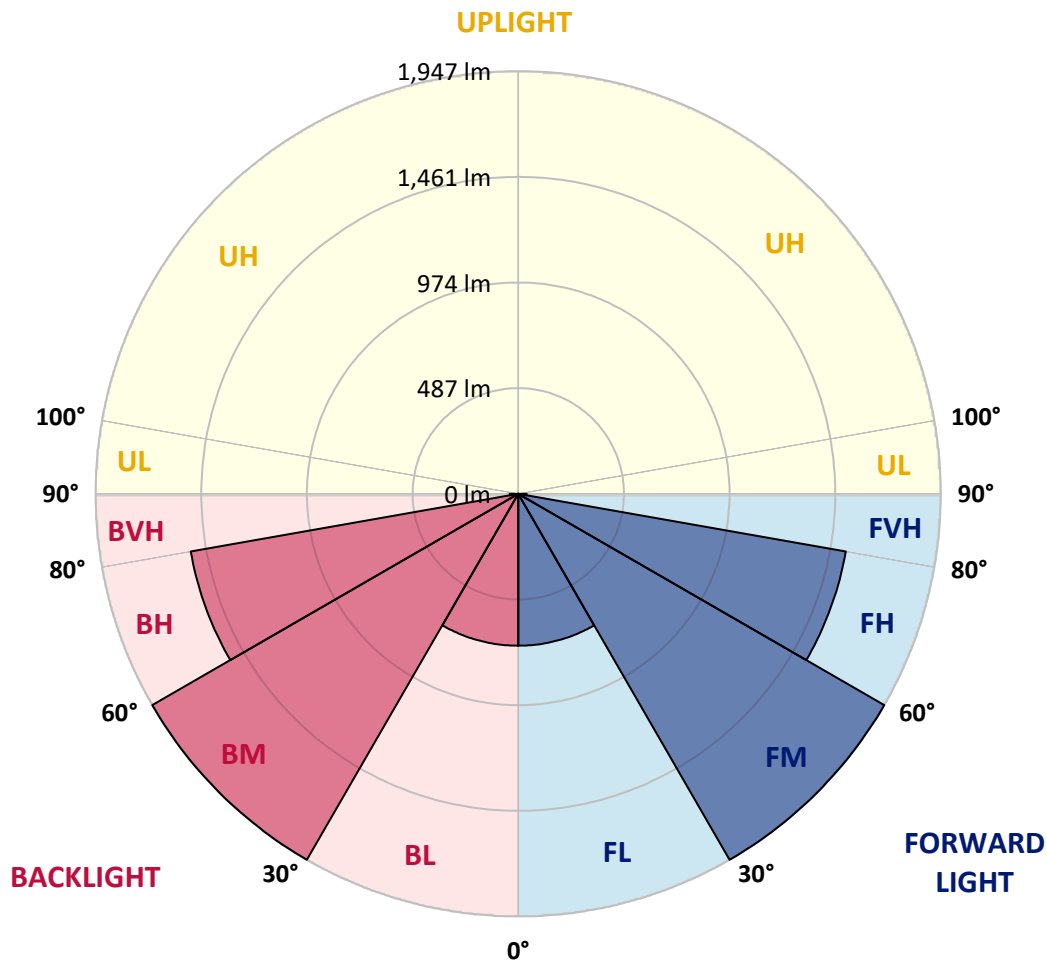
REPORT NUMBER: P961342  
 CATALOG NUMBER: NAV-SB2A-727-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.8	8.3			
FM (30°-60°)	1947.4	23.1			
FH (60°-80°)	1532.5	18.2			G1/1800
FVH (80°-90°)	38.7	0.5			G1/100
BL (0°-30°)	699.8	8.3	B2/1000		
BM (30°-60°)	1947.4	23.1	B2/2500		
BH (60°-80°)	1532.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	38.7	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



REPORT NUMBER: P961342  
 CATALOG NUMBER: NAV-SB2A-727-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4	1576.4
2.5°	1577.9	1579.6	1579.6	1578.3	1581.5	1578.7	1578.7	1577.4	1578.7	1577.4	1577.4
5°	1585.9	1588.1	1589.1	1588.6	1592.6	1590.4	1590.4	1588.6	1589.1	1587.7	1587.7
7.5°	1601.2	1604.3	1606.1	1608.3	1614.2	1611.5	1609.7	1604.3	1602.1	1598.5	1598.5
10°	1606.1	1609.7	1615.5	1627.2	1640.6	1641.0	1635.7	1622.3	1611.9	1603.8	1602.5
12.5°	1590.8	1595.8	1607.9	1631.7	1661.7	1673.8	1665.3	1642.9	1622.7	1608.3	1606.1
15°	1571.5	1577.0	1595.3	1631.2	1675.6	1703.9	1702.9	1673.3	1641.0	1618.7	1615.1
17.5°	1541.5	1546.9	1573.4	1623.6	1686.3	1733.0	1745.6	1715.0	1669.7	1639.7	1634.8
20°	1487.3	1492.2	1529.0	1599.4	1689.9	1763.9	1796.6	1769.8	1713.3	1672.5	1664.8
22.5°	1416.9	1424.5	1467.6	1557.7	1681.4	1796.2	1854.9	1836.6	1763.9	1707.4	1697.1
25°	1341.5	1349.6	1399.8	1506.5	1659.5	1819.5	1924.0	1912.3	1821.3	1750.9	1736.6
27.5°	1276.5	1285.0	1339.8	1455.9	1625.3	1828.5	1992.2	1997.9	1890.8	1798.9	1783.6
30°	1225.4	1233.5	1291.8	1415.1	1581.5	1819.5	2051.7	2092.1	1961.6	1840.6	1818.7
32.5°	1169.4	1179.7	1241.1	1365.3	1529.4	1798.0	2103.8	2193.9	2043.7	1885.4	1857.6
35°	1098.5	1107.9	1172.5	1297.1	1461.2	1763.5	2147.3	2306.9	2161.2	1953.5	1922.7
37.5°	1012.4	1021.4	1085.5	1212.0	1393.6	1715.0	2180.5	2434.3	2301.1	2051.7	2010.5
40°	925.9	934.4	994.5	1116.9	1312.4	1653.2	2192.2	2558.9	2461.6	2186.7	2142.8
42.5°	846.5	854.1	909.3	1023.2	1221.4	1574.3	2176.9	2667.4	2605.5	2280.9	2224.5
45°	773.5	780.2	829.0	935.3	1126.8	1478.3	2131.2	2784.0	2776.8	2348.2	2271.9
47.5°	690.0	696.8	747.4	850.1	1032.2	1365.8	2053.6	2898.8	3014.9	2500.6	2412.7
50°	588.2	594.1	646.2	751.9	934.0	1246.1	1946.0	2988.9	3315.4	2731.5	2621.2
52.5°	467.7	474.0	524.6	630.4	817.4	1117.4	1804.3	3047.6	3662.3	3068.7	2932.8
55°	348.0	352.4	396.4	491.4	673.0	970.8	1626.7	3064.2	4056.0	3529.7	3359.7
57.5°	252.5	255.1	283.4	354.2	510.2	787.3	1411.0	3021.2	4524.6	4120.6	3906.7
60°	204.5	205.3	213.9	245.3	354.6	580.3	1150.6	2873.2	5033.1	4882.4	4612.9
62.5°	185.6	185.6	187.9	196.4	239.8	382.9	835.4	2566.5	5578.3	5845.1	5484.2
65°	172.6	172.6	173.5	177.5	189.2	244.0	527.3	2067.0	6037.9	6972.8	6516.3
67.5°	160.9	161.4	160.9	162.4	169.0	180.3	305.8	1427.6	6285.4	8141.3	7648.4
70°	148.8	149.8	147.5	147.5	152.9	153.3	191.5	782.9	6080.0	9120.4	8990.9
72.5°	134.5	135.8	132.2	131.4	135.4	133.7	143.9	375.8	5220.0	9412.8	9753.6
75°	122.0	123.7	115.7	113.5	113.5	112.1	117.1	192.8	3387.9	7678.5	8212.9
77.5°	110.7	114.3	101.4	94.2	92.4	88.4	95.5	117.9	1481.8	3604.9	3530.1
80°	91.4	96.5	83.4	74.9	71.8	67.2	75.3	82.5	440.7	837.1	801.7
82.5°	68.2	70.4	59.1	53.4	50.6	47.6	56.5	57.4	143.5	296.3	335.0
85°	43.5	44.4	36.3	31.4	30.0	28.7	35.9	31.4	54.7	217.9	316.5
87.5°	15.3	17.5	13.9	12.5	13.4	11.2	16.6	9.4	15.3	153.8	190.5
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)