

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: P882215

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882215
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-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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8196 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

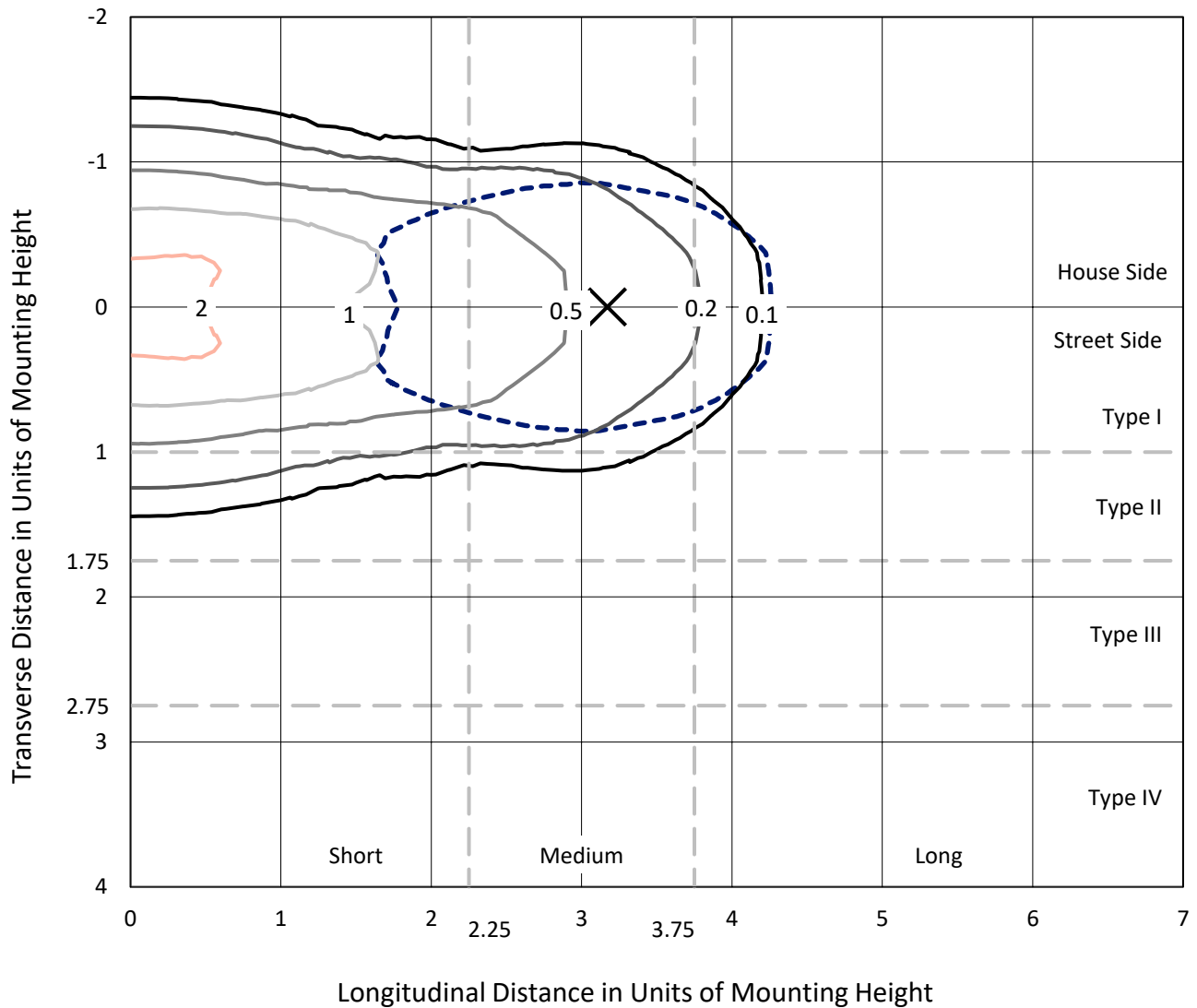
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882215
 CATALOG NUMBER: NAV-SB2A-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

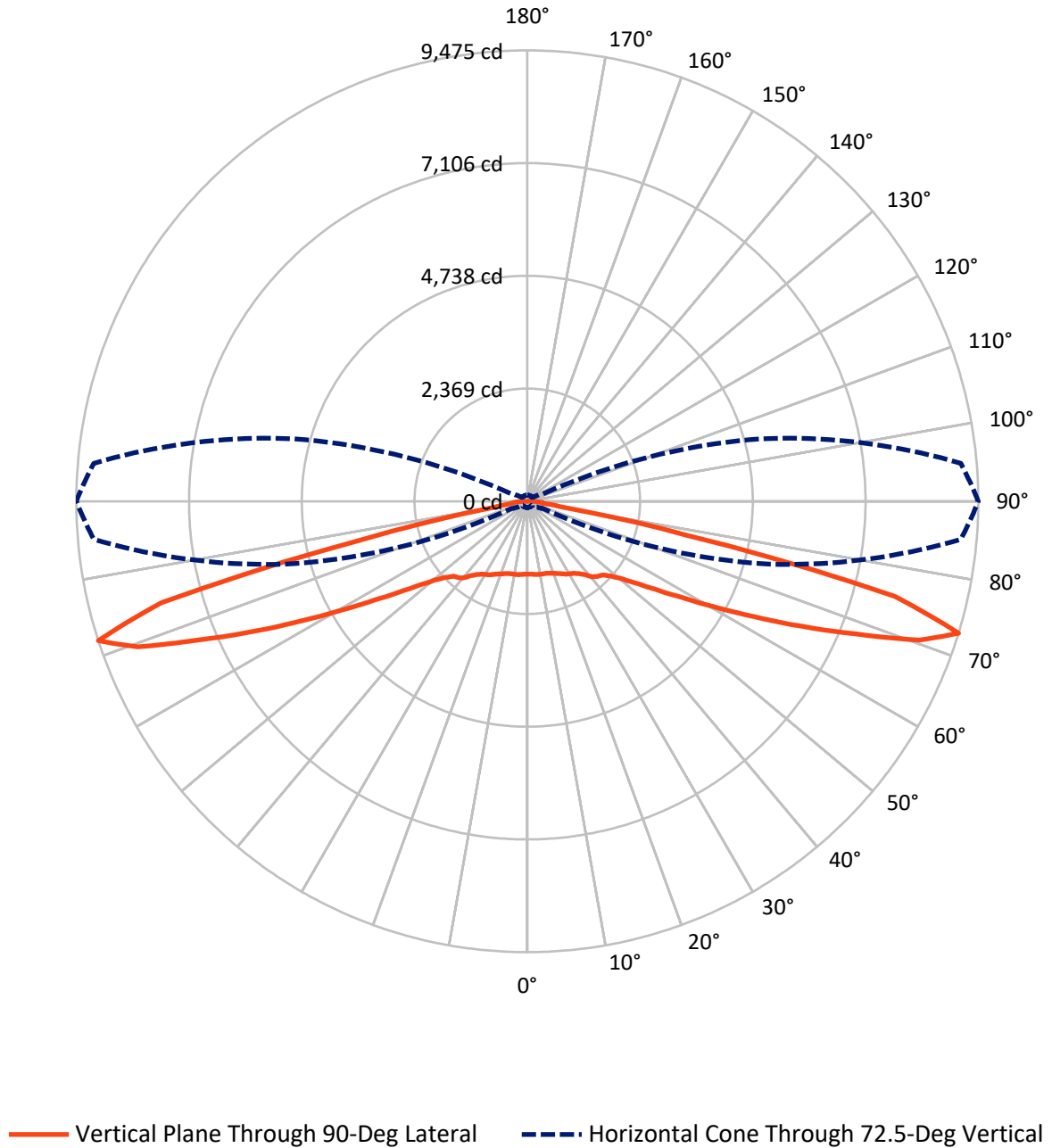
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P882215
CATALOG NUMBER: NAV-SB2A-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P882215
 CATALOG NUMBER: NAV-SB2A-727-U-T1

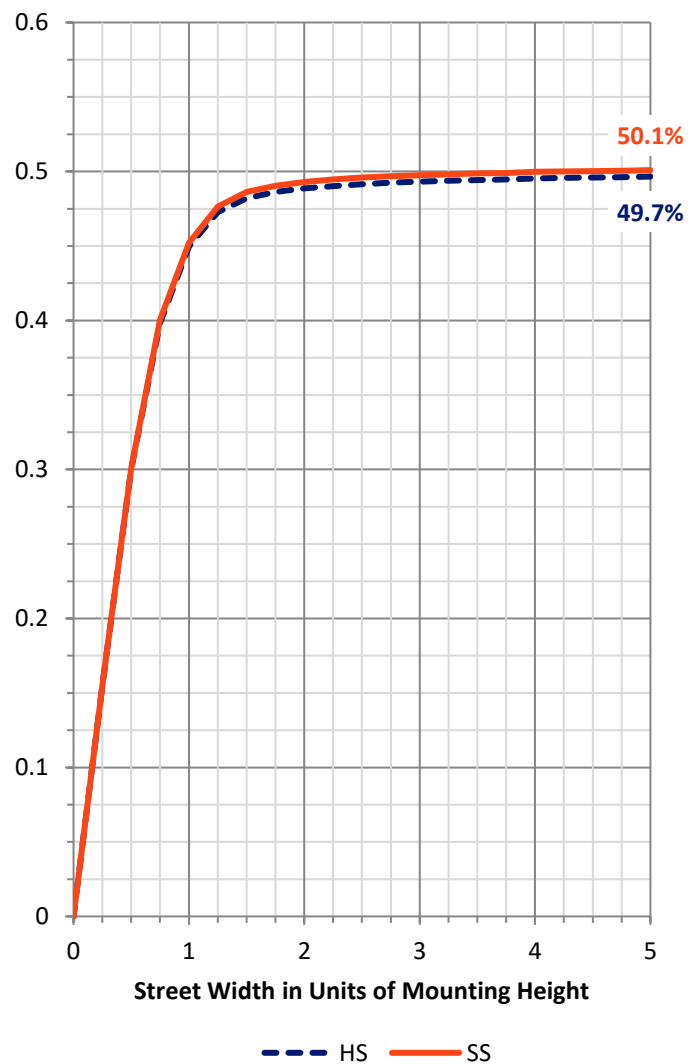
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4098.0	0.0	4098.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4098.0	0.0	4098.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8196.0	0.0	8196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.8
10°-20°	454.0	5.5
20°-30°	757.1	9.2
30°-40°	1041.2	12.7
40°-50°	1271.6	15.5
50°-60°	1470.8	17.9
60°-70°	1753.6	21.4
70°-80°	1223.9	14.9
80°-90°	75.2	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°	8196.0	100.0
0°-180°	8196.0	100.0

Coefficient of Utilization



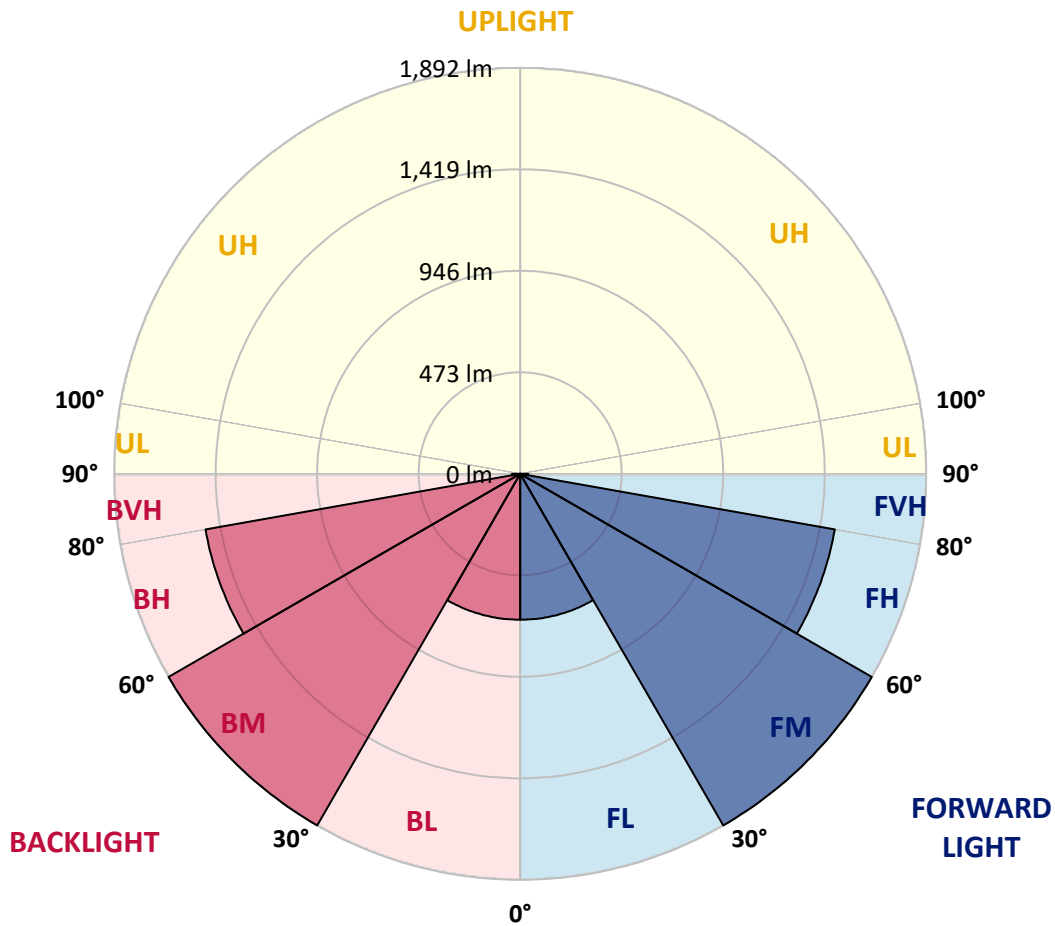
REPORT NUMBER: P882215
 CATALOG NUMBER: NAV-SB2A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.8	8.3			
FM (30°-60°)	1891.8	23.1			
FH (60°-80°)	1488.8	18.2			G1/1800
FVH (80°-90°)	37.6	0.5			G1/100
BL (0°-30°)	679.8	8.3	B2/1000		
BM (30°-60°)	1891.8	23.1	B2/2500		
BH (60°-80°)	1488.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	37.6	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: P882215
 CATALOG NUMBER: NAV-SB2A-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5
2.5°	1532.8	1534.6	1534.6	1533.3	1536.3	1533.7	1533.7	1532.4	1533.7	1532.4	1532.4
5°	1540.7	1542.8	1543.7	1543.3	1547.2	1545.0	1545.0	1543.3	1543.7	1542.4	1542.4
7.5°	1555.5	1558.5	1560.3	1562.4	1568.1	1565.5	1563.7	1558.5	1556.3	1552.9	1552.9
10°	1560.3	1563.7	1569.4	1580.7	1593.8	1594.2	1589.0	1575.9	1565.9	1558.1	1556.8
12.5°	1545.4	1550.2	1562.0	1585.1	1614.3	1626.0	1617.8	1596.0	1576.4	1562.4	1560.3
15°	1526.7	1531.9	1549.8	1584.7	1627.8	1655.2	1654.3	1625.6	1594.2	1572.5	1569.0
17.5°	1497.5	1502.8	1528.5	1577.2	1638.2	1683.5	1695.7	1666.1	1622.1	1592.9	1588.1
20°	1444.8	1449.6	1485.3	1553.7	1641.7	1713.6	1745.4	1719.2	1664.4	1624.7	1617.3
22.5°	1376.4	1383.8	1425.7	1513.2	1633.4	1744.9	1802.0	1784.1	1713.6	1658.7	1648.7
25°	1303.3	1311.1	1359.9	1463.6	1612.1	1767.6	1869.1	1857.8	1769.3	1701.0	1687.0
27.5°	1240.1	1248.4	1301.5	1414.3	1579.0	1776.3	1935.3	1941.0	1836.9	1747.6	1732.7
30°	1190.4	1198.3	1254.9	1374.7	1536.3	1767.6	1993.2	2032.4	1905.7	1788.1	1766.7
32.5°	1136.0	1146.0	1205.7	1326.3	1485.8	1746.7	2043.8	2131.3	1985.4	1831.6	1804.6
35°	1067.2	1076.3	1139.0	1260.1	1419.6	1713.1	2086.0	2241.1	2099.5	1897.8	1867.8
37.5°	983.5	992.3	1054.5	1177.4	1353.8	1666.1	2118.2	2364.8	2235.4	1993.2	1953.2
40°	899.5	907.8	966.1	1085.0	1275.0	1606.0	2129.6	2485.9	2391.3	2124.3	2081.7
42.5°	822.4	829.8	883.4	994.0	1186.5	1529.3	2114.8	2591.3	2531.2	2215.8	2160.9
45°	751.4	757.9	805.4	908.6	1094.6	1436.1	2070.3	2704.5	2697.6	2281.1	2207.1
47.5°	670.4	676.9	726.1	825.9	1002.7	1326.8	1995.0	2816.0	2928.9	2429.2	2343.9
50°	571.5	577.1	627.7	730.5	907.3	1210.5	1890.4	2903.6	3220.7	2653.6	2546.4
52.5°	454.3	460.4	509.6	612.4	794.1	1085.5	1752.8	2960.7	3557.8	2981.1	2849.1
55°	338.0	342.4	385.1	477.4	653.8	943.0	1580.3	2976.8	3940.3	3428.9	3263.8
57.5°	245.2	247.8	275.3	344.1	495.7	764.9	1370.8	2935.0	4395.5	4003.0	3795.2
60°	198.6	199.5	207.8	238.3	344.5	563.6	1117.7	2791.2	4889.4	4743.1	4481.3
62.5°	180.3	180.3	182.5	190.8	233.0	372.0	811.5	2493.3	5419.1	5678.3	5327.6
65°	167.7	167.7	168.6	172.5	183.8	237.0	512.2	2008.0	5865.6	6773.7	6330.3
67.5°	156.4	156.8	156.4	157.7	164.2	175.1	297.1	1386.9	6106.0	7908.9	7430.2
70°	144.6	145.5	143.3	143.3	148.5	149.0	186.0	760.5	5906.5	8860.2	8734.3
72.5°	130.7	132.0	128.5	127.6	131.5	129.8	139.8	365.0	5071.1	9144.2	9475.2
75°	118.5	120.2	112.4	110.2	110.2	108.9	113.7	187.3	3291.3	7459.4	7978.6
77.5°	107.6	111.1	98.4	91.5	89.7	85.8	92.8	114.6	1439.6	3502.1	3429.3
80°	88.9	93.7	81.0	72.7	69.7	65.3	73.2	80.1	428.2	813.2	778.8
82.5°	66.2	68.4	57.5	51.8	49.2	46.2	54.9	55.8	139.4	287.9	325.4
85°	42.3	43.1	35.3	30.5	29.2	27.9	34.8	30.5	53.1	211.7	307.5
87.5°	14.8	17.0	13.5	12.2	13.1	10.9	16.1	9.1	14.8	149.4	185.1
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)