

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: P882035

Luminaire Tested: **NAV-SB1D-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882035
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029 lumens
Efficiency: N/A
Efficacy: 100.9 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

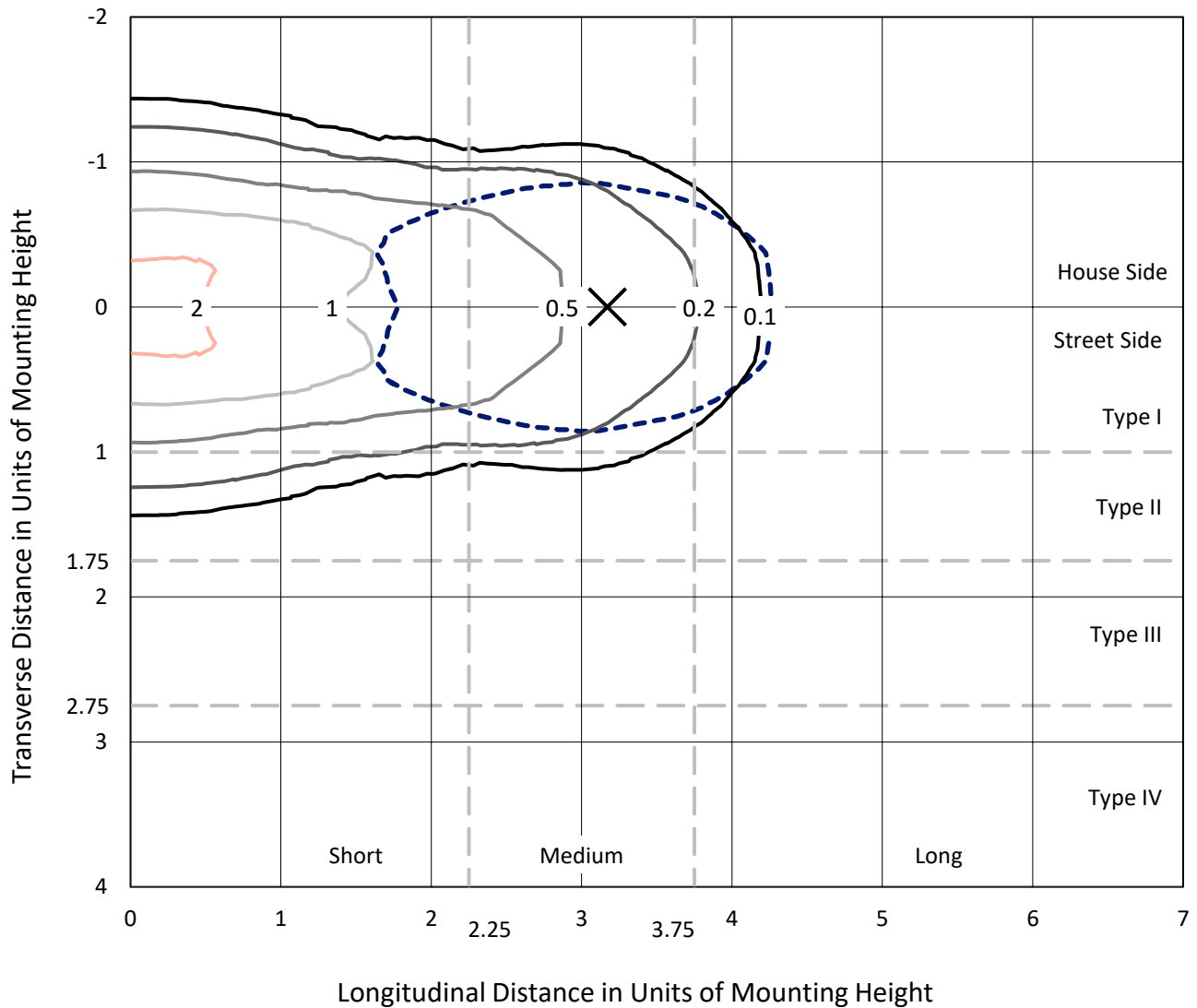
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

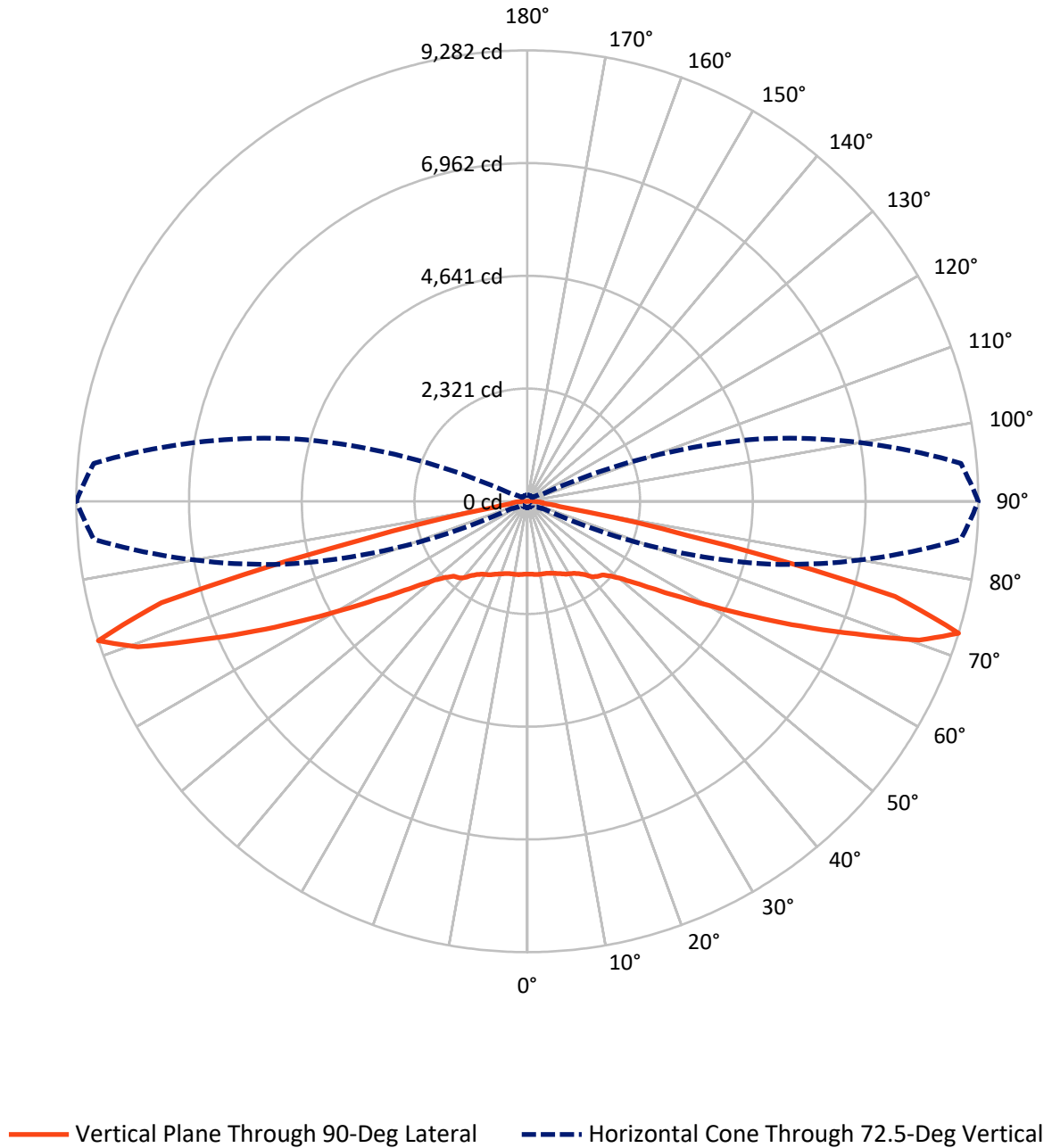
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4014.5	0.0	4014.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4014.5	0.0	4014.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8029.0	0.0	8029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.8
10°-20°	444.8	5.5
20°-30°	741.7	9.2
30°-40°	1020.0	12.7
40°-50°	1245.7	15.5
50°-60°	1440.8	17.9
60°-70°	1717.9	21.4
70°-80°	1199.0	14.9
80°-90°	73.6	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°	8029.0	100.0
0°-180°	8029.0	100.0

Coefficient of Utilization



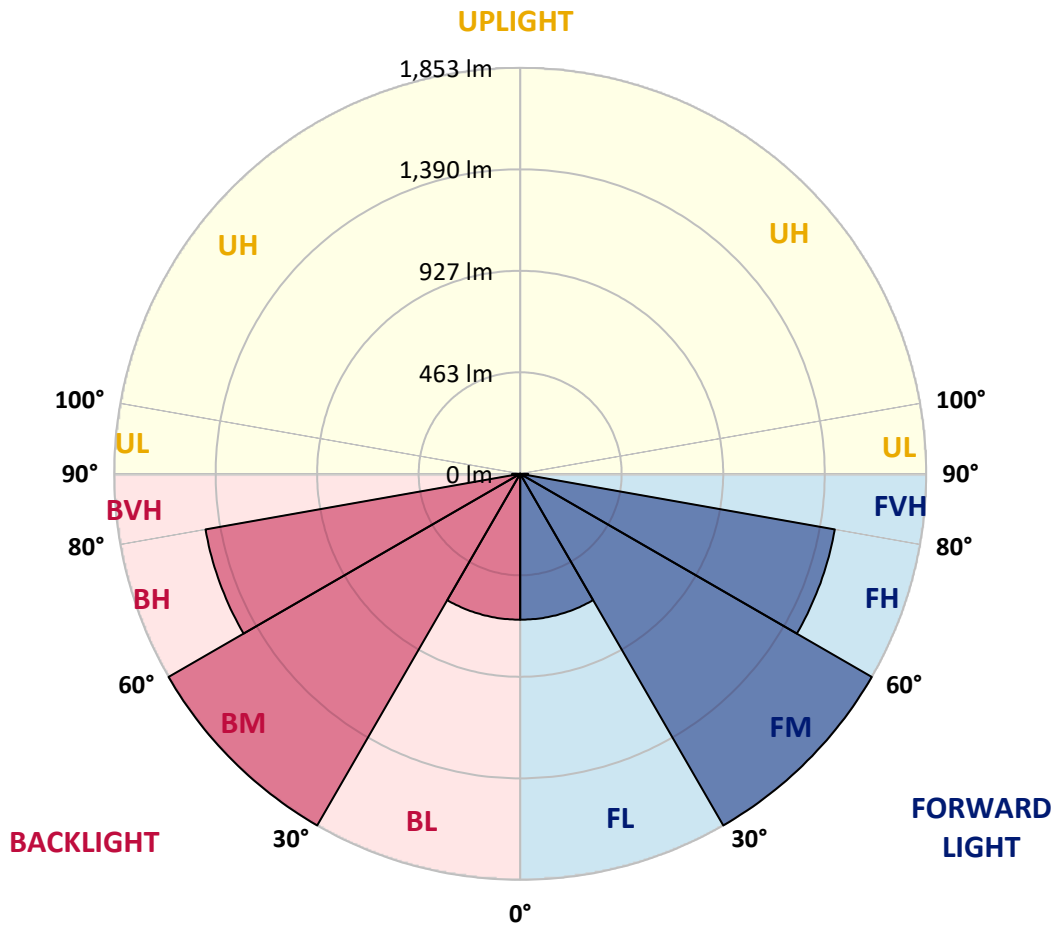
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.0	8.3			
FM (30°-60°)	1853.3	23.1			
FH (60°-80°)	1458.5	18.2			G1/1800
FVH (80°-90°)	36.8	0.5			G1/100
BL (0°-30°)	666.0	8.3	B2/1000		
BM (30°-60°)	1853.3	23.1	B2/2500		
BH (60°-80°)	1458.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	36.8	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°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1501.6	1503.3	1503.3	1502.0	1505.0	1502.4	1502.4	1501.2	1502.4	1501.2	1501.2
5°	1509.3	1511.4	1512.3	1511.8	1515.7	1513.5	1513.5	1511.8	1512.3	1511.0	1511.0
7.5°	1523.8	1526.8	1528.5	1530.6	1536.1	1533.6	1531.9	1526.8	1524.6	1521.2	1521.2
10°	1528.5	1531.9	1537.4	1548.5	1561.3	1561.7	1556.6	1543.8	1534.0	1526.3	1525.1
12.5°	1514.0	1518.7	1530.2	1552.8	1581.4	1592.9	1584.8	1563.5	1544.3	1530.6	1528.5
15°	1495.6	1500.7	1518.2	1552.4	1594.6	1621.5	1620.6	1592.5	1561.7	1540.4	1537.0
17.5°	1467.0	1472.1	1497.3	1545.1	1604.8	1649.2	1661.2	1632.2	1589.1	1560.5	1555.8
20°	1415.4	1420.1	1455.1	1522.1	1608.3	1678.7	1709.8	1684.2	1630.4	1591.6	1584.4
22.5°	1348.4	1355.6	1396.6	1482.4	1600.2	1709.4	1765.3	1747.8	1678.7	1624.9	1615.1
25°	1276.7	1284.4	1332.2	1433.7	1579.2	1731.6	1831.0	1819.9	1733.3	1666.3	1652.6
27.5°	1214.8	1222.9	1275.0	1385.5	1546.8	1740.1	1895.9	1901.4	1799.4	1712.0	1697.4
30°	1166.2	1173.9	1229.3	1346.7	1505.0	1731.6	1952.6	1991.0	1866.8	1751.6	1730.7
32.5°	1112.9	1122.7	1181.1	1299.3	1455.5	1711.1	2002.1	2087.9	1944.9	1794.3	1767.8
35°	1045.4	1054.4	1115.8	1234.5	1390.6	1678.2	2043.5	2195.4	2056.7	1859.2	1829.7
37.5°	963.5	972.0	1033.1	1153.4	1326.2	1632.2	2075.1	2316.6	2189.9	1952.6	1913.4
40°	881.2	889.3	946.4	1062.9	1249.0	1573.3	2086.2	2435.2	2342.6	2081.1	2039.2
42.5°	805.6	812.9	865.4	973.7	1162.4	1498.2	2071.7	2538.5	2479.6	2170.7	2116.9
45°	736.1	742.5	789.0	890.1	1072.3	1406.9	2028.1	2649.4	2642.6	2234.7	2162.1
47.5°	656.7	663.1	711.3	809.0	982.3	1299.8	1954.3	2758.7	2869.2	2379.7	2296.1
50°	559.8	565.4	614.9	715.6	888.8	1185.8	1851.9	2844.4	3155.1	2599.5	2494.5
52.5°	445.1	451.0	499.2	600.0	777.9	1063.4	1717.1	2900.3	3485.3	2920.4	2791.1
55°	331.1	335.4	377.2	467.7	640.5	923.8	1548.1	2916.1	3860.0	3359.0	3197.3
57.5°	240.2	242.8	269.7	337.1	485.6	749.3	1342.8	2875.2	4305.9	3921.4	3717.9
60°	194.6	195.4	203.5	233.4	337.5	552.2	1094.9	2734.3	4789.8	4646.4	4390.0
62.5°	176.7	176.7	178.8	186.9	228.3	364.4	795.0	2442.5	5308.7	5562.6	5219.1
65°	164.3	164.3	165.1	169.0	180.1	232.1	501.8	1967.1	5746.0	6635.7	6201.3
67.5°	153.2	153.6	153.2	154.5	160.9	171.5	291.0	1358.6	5981.6	7747.7	7278.8
70°	141.7	142.5	140.4	140.4	145.5	145.9	182.2	745.0	5786.2	8679.7	8556.3
72.5°	128.0	129.3	125.9	125.0	128.9	127.2	137.0	357.6	4967.7	8957.9	9282.2
75°	116.1	117.8	110.1	108.0	108.0	106.7	111.4	183.5	3224.2	7307.4	7816.0
77.5°	105.4	108.8	96.4	89.6	87.9	84.1	90.9	112.2	1410.3	3430.7	3359.5
80°	87.0	91.7	79.4	71.3	68.3	64.0	71.7	78.5	419.5	796.7	763.0
82.5°	64.9	67.0	56.3	50.8	48.2	45.2	53.8	54.6	136.5	282.1	318.8
85°	41.4	42.2	34.6	29.9	28.6	27.3	34.1	29.9	52.1	207.4	301.3
87.5°	14.5	16.6	13.2	11.9	12.8	10.7	15.8	9.0	14.5	146.4	181.4
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)