

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: P882375

Luminaire Tested: **NAV-SB2B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882375
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-SB2B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9047 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

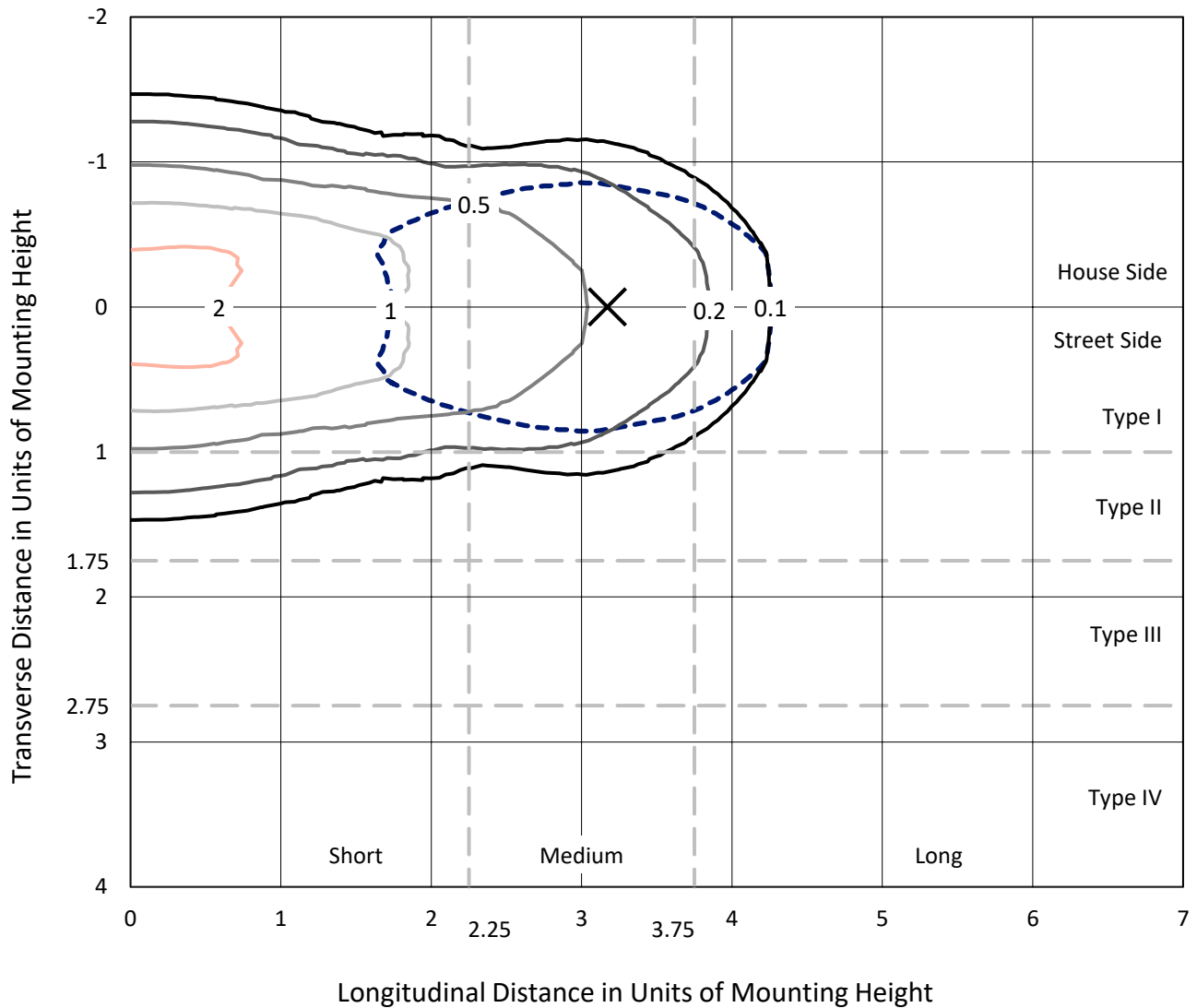
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

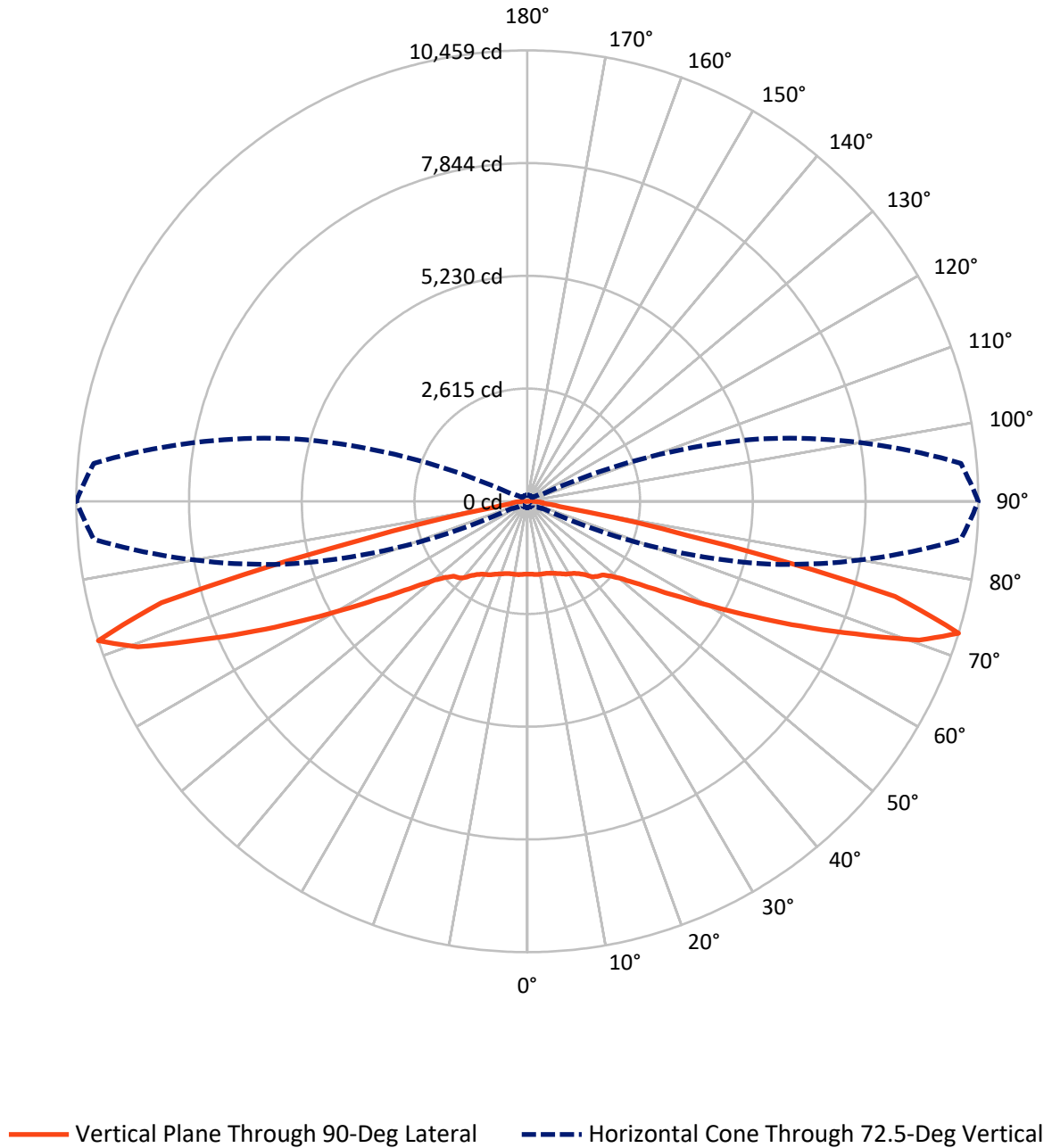
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4523.5	0.0	4523.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4523.5	0.0	4523.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9047.0	0.0	9047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.8
10°-20°	501.2	5.5
20°-30°	835.7	9.2
30°-40°	1149.3	12.7
40°-50°	1403.7	15.5
50°-60°	1623.5	17.9
60°-70°	1935.7	21.4
70°-80°	1351.0	14.9
80°-90°	83.0	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°	9047.0	100.0
0°-180°	9047.0	100.0

Coefficient of Utilization



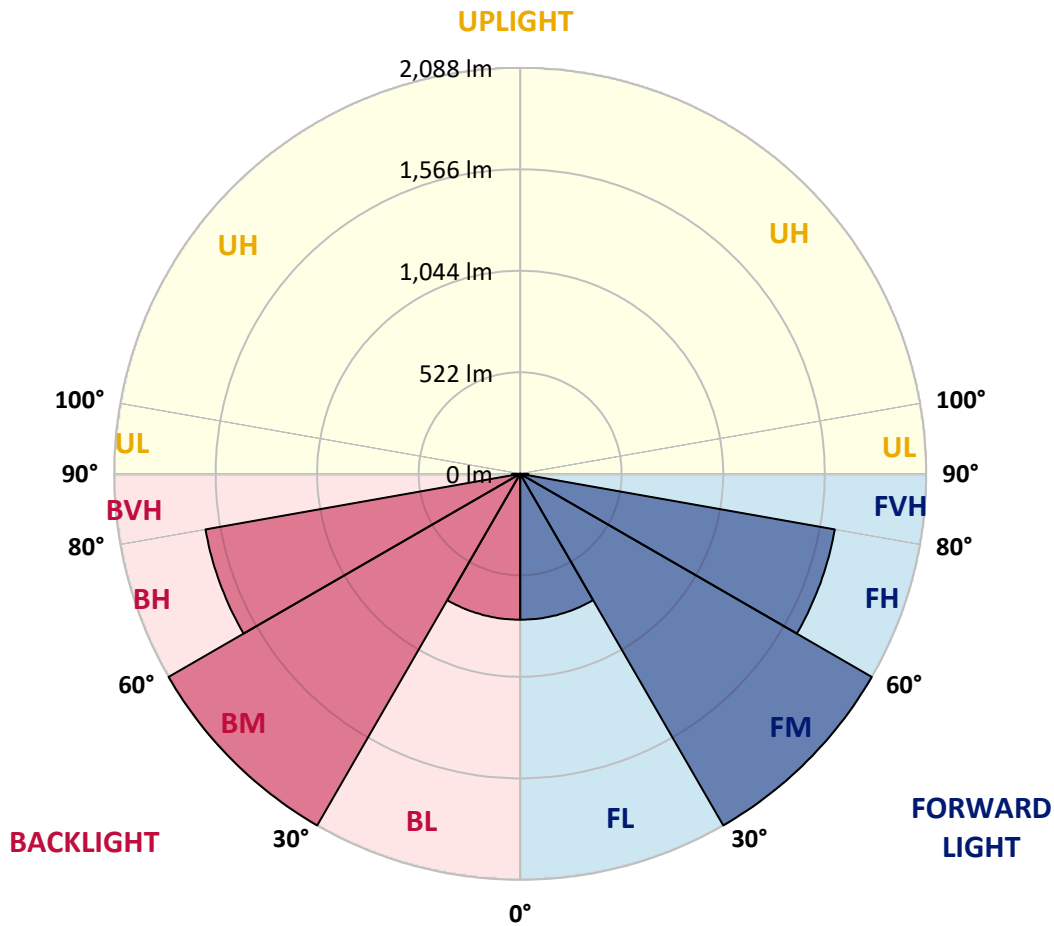
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.4	8.3			
FM (30°-60°)	2088.2	23.1			
FH (60°-80°)	1643.4	18.2			G1/1800
FVH (80°-90°)	41.5	0.5			G1/100
BL (0°-30°)	750.4	8.3	B2/1000		
BM (30°-60°)	2088.2	23.1	B2/2500		
BH (60°-80°)	1643.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	41.5	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°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5
2.5°	1692.0	1693.9	1693.9	1692.5	1695.8	1692.9	1692.9	1691.5	1692.9	1691.5	1691.5
5°	1700.6	1703.0	1704.0	1703.5	1707.8	1705.4	1705.4	1703.5	1704.0	1702.5	1702.5
7.5°	1717.0	1720.3	1722.3	1724.7	1730.9	1728.0	1726.1	1720.3	1717.9	1714.1	1714.1
10°	1722.3	1726.1	1732.4	1744.9	1759.3	1759.8	1754.0	1739.6	1728.5	1719.9	1718.4
12.5°	1705.9	1711.2	1724.2	1749.7	1781.9	1794.9	1785.7	1761.7	1740.1	1724.7	1722.3
15°	1685.2	1691.0	1710.7	1749.2	1796.8	1827.1	1826.1	1794.4	1759.8	1735.7	1731.9
17.5°	1653.0	1658.8	1687.2	1741.0	1808.3	1858.3	1871.8	1839.1	1790.5	1758.3	1753.0
20°	1594.8	1600.1	1639.6	1715.0	1812.2	1891.5	1926.6	1897.8	1837.2	1793.4	1785.2
22.5°	1519.4	1527.5	1573.7	1670.3	1803.0	1926.1	1989.1	1969.4	1891.5	1830.9	1819.9
25°	1438.6	1447.2	1501.1	1615.5	1779.5	1951.1	2063.2	2050.7	1953.0	1877.6	1862.2
27.5°	1368.9	1378.0	1436.7	1561.2	1742.9	1960.7	2136.2	2142.5	2027.6	1929.0	1912.7
30°	1314.1	1322.7	1385.2	1517.4	1695.8	1951.1	2200.2	2243.5	2103.5	1973.7	1950.2
32.5°	1254.0	1265.0	1330.9	1464.1	1640.0	1928.0	2256.0	2352.6	2191.5	2021.8	1992.0
35°	1178.0	1188.1	1257.3	1391.0	1567.0	1891.0	2302.6	2473.8	2317.5	2094.9	2061.7
37.5°	1085.7	1095.3	1164.0	1299.6	1494.4	1839.1	2338.2	2610.3	2467.5	2200.2	2156.0
40°	992.9	1002.0	1066.4	1197.7	1407.3	1772.7	2350.7	2744.0	2639.6	2344.9	2297.8
42.5°	907.8	915.9	975.1	1097.2	1309.7	1688.1	2334.3	2860.3	2794.0	2445.9	2385.3
45°	829.4	836.6	889.0	1003.0	1208.3	1585.2	2285.3	2985.3	2977.7	2518.0	2436.3
47.5°	740.0	747.2	801.5	911.6	1106.8	1464.5	2202.1	3108.4	3233.0	2681.5	2587.2
50°	630.8	637.1	692.8	806.3	1001.5	1336.2	2086.7	3205.1	3555.1	2929.1	2810.8
52.5°	501.5	508.2	562.5	676.0	876.5	1198.2	1934.8	3268.1	3927.3	3290.7	3145.0
55°	373.1	377.9	425.0	527.0	721.7	1041.0	1744.4	3285.9	4349.4	3784.9	3602.7
57.5°	270.7	273.6	303.9	379.8	547.2	844.3	1513.1	3239.7	4851.9	4418.6	4189.3
60°	219.2	220.2	229.3	263.0	380.3	622.2	1233.8	3081.0	5397.1	5235.5	4946.6
62.5°	199.1	199.1	201.5	210.6	257.2	410.6	895.7	2752.2	5981.8	6267.8	5880.8
65°	185.1	185.1	186.1	190.4	202.9	261.6	565.4	2216.5	6474.6	7477.1	6987.6
67.5°	172.6	173.1	172.6	174.1	181.3	193.3	327.9	1530.9	6740.0	8730.1	8201.7
70°	159.6	160.6	158.2	158.2	164.0	164.4	205.3	839.5	6519.8	9780.2	9641.2
72.5°	144.2	145.7	141.8	140.9	145.2	143.3	154.3	402.9	5597.6	10093.6	10459.1
75°	130.8	132.7	124.0	121.6	121.6	120.2	125.5	206.7	3633.0	8233.9	8807.0
77.5°	118.8	122.6	108.7	101.0	99.0	94.7	102.4	126.5	1589.1	3865.7	3785.4
80°	98.1	103.4	89.4	80.3	76.9	72.1	80.8	88.5	472.6	897.7	859.7
82.5°	73.1	75.5	63.5	57.2	54.3	51.0	60.6	61.5	153.9	317.8	359.2
85°	46.6	47.6	38.9	33.7	32.2	30.8	38.5	33.7	58.7	233.7	339.5
87.5°	16.3	18.8	14.9	13.5	14.4	12.0	17.8	10.1	16.3	164.9	204.3
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)