

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: P882445

Luminaire Tested: **NAV-SB2B-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882445
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9225 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

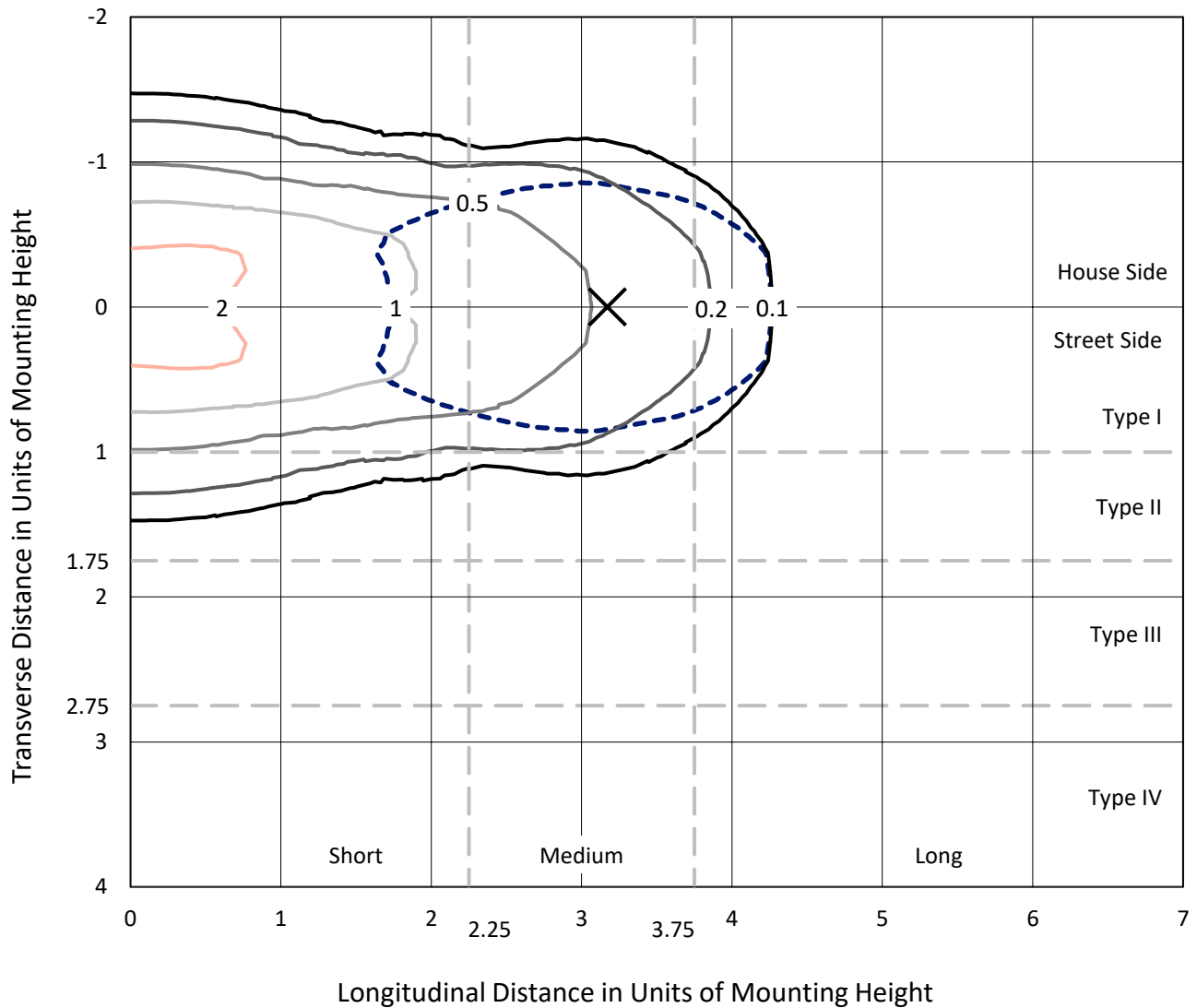
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

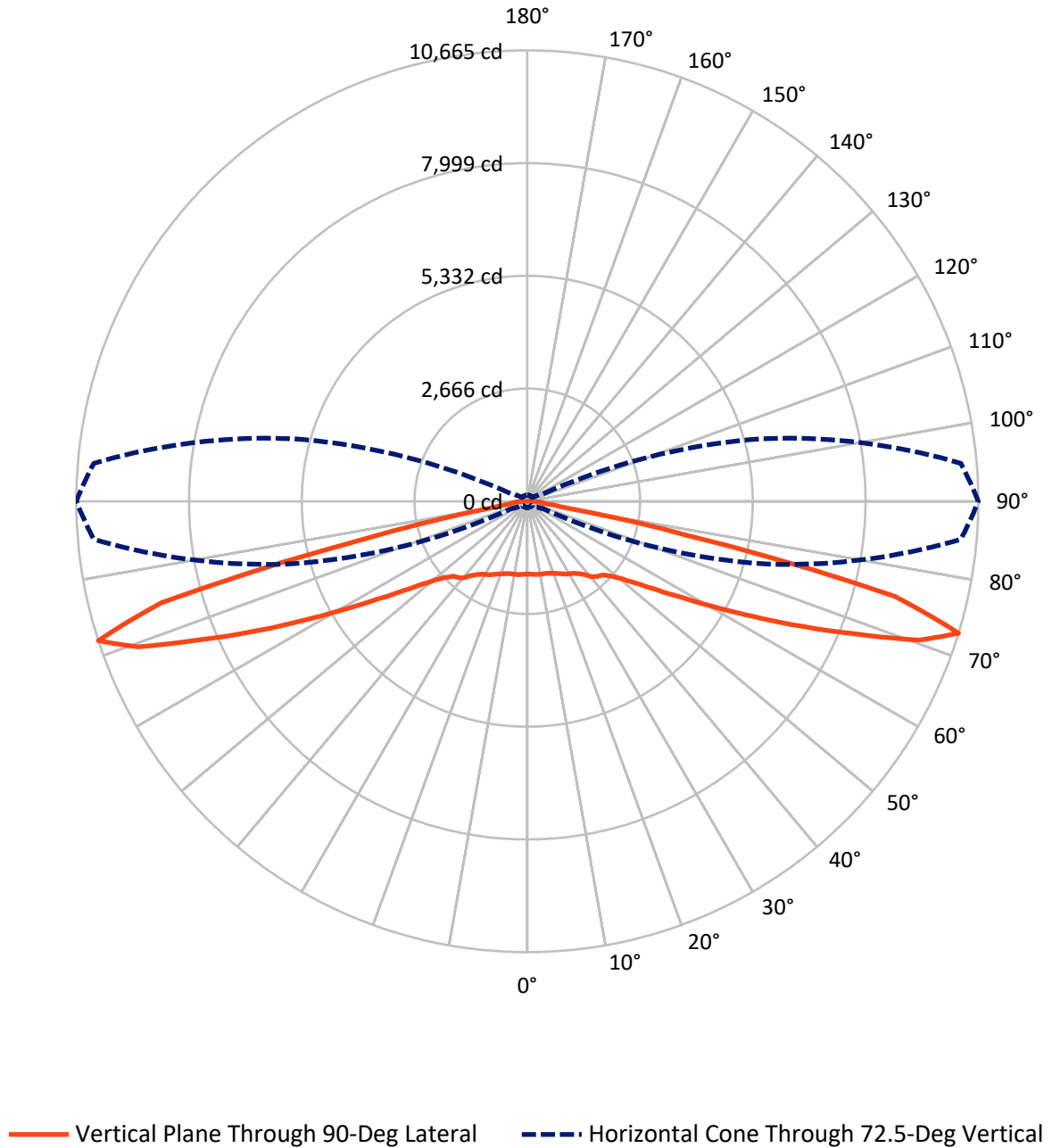
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	4612.5	0.0	4612.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4612.5	0.0	4612.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9225.0	0.0	9225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.8
10°-20°	511.1	5.5
20°-30°	852.1	9.2
30°-40°	1172.0	12.7
40°-50°	1431.3	15.5
50°-60°	1655.4	17.9
60°-70°	1973.8	21.4
70°-80°	1377.6	14.9
80°-90°	84.6	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°	9225.0	100.0
0°-180°	9225.0	100.0

Coefficient of Utilization



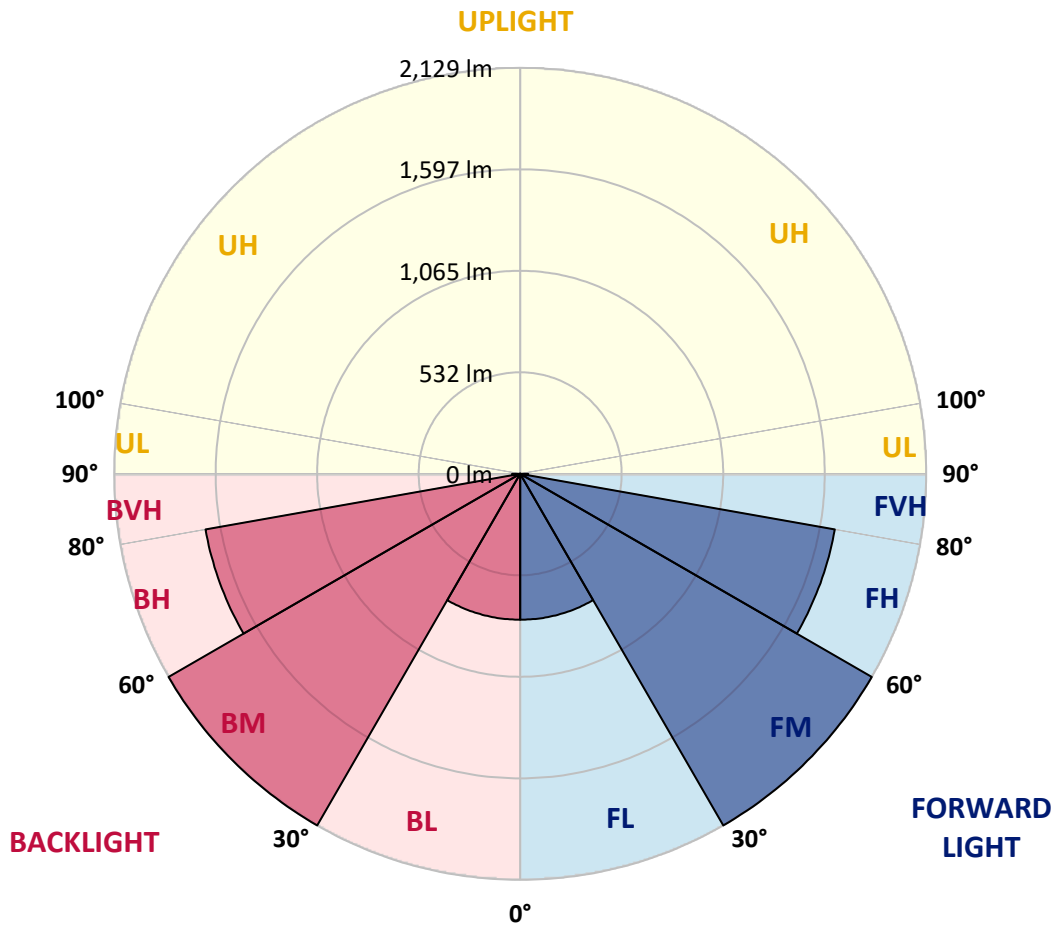
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.2	8.3			
FM (30°-60°)	2129.3	23.1			
FH (60°-80°)	1675.7	18.2			G1/1800
FVH (80°-90°)	42.3	0.5			G1/100
BL (0°-30°)	765.2	8.3	B2/1000		
BM (30°-60°)	2129.3	23.1	B2/2500		
BH (60°-80°)	1675.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	42.3	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°	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
2.5°	1725.3	1727.2	1727.2	1725.7	1729.2	1726.2	1726.2	1724.8	1726.2	1724.8	1724.8
5°	1734.1	1736.5	1737.5	1737.0	1741.4	1739.0	1739.0	1737.0	1737.5	1736.0	1736.0
7.5°	1750.8	1754.2	1756.1	1758.6	1765.0	1762.0	1760.1	1754.2	1751.7	1747.8	1747.8
10°	1756.1	1760.1	1766.4	1779.2	1793.9	1794.4	1788.5	1773.8	1762.5	1753.7	1752.2
12.5°	1739.5	1744.9	1758.1	1784.1	1816.9	1830.2	1820.9	1796.3	1774.3	1758.6	1756.1
15°	1718.4	1724.3	1744.4	1783.6	1832.1	1863.0	1862.0	1829.7	1794.4	1769.9	1766.0
17.5°	1685.5	1691.4	1720.4	1775.3	1843.9	1894.9	1908.6	1875.3	1825.8	1792.9	1787.5
20°	1626.2	1631.6	1671.8	1748.8	1847.8	1928.7	1964.5	1935.1	1873.3	1828.7	1820.4
22.5°	1549.3	1557.6	1604.7	1703.2	1838.5	1964.0	2028.2	2008.1	1928.7	1866.9	1855.7
25°	1466.9	1475.7	1530.6	1647.3	1814.5	1989.5	2103.7	2091.0	1991.5	1914.5	1898.8
27.5°	1395.8	1405.1	1464.9	1591.9	1777.2	1999.3	2178.3	2184.6	2067.5	1967.0	1950.3
30°	1339.9	1348.7	1412.5	1547.3	1729.2	1989.5	2243.5	2287.6	2144.9	2012.6	1988.5
32.5°	1278.6	1289.9	1357.1	1492.9	1672.3	1966.0	2300.3	2398.9	2234.6	2061.6	2031.2
35°	1201.2	1211.5	1282.1	1418.4	1597.8	1928.2	2347.9	2522.4	2363.1	2136.1	2102.3
37.5°	1107.0	1116.8	1186.9	1325.2	1523.8	1875.3	2384.2	2661.7	2516.1	2243.5	2198.4
40°	1012.4	1021.7	1087.4	1221.3	1435.0	1807.6	2396.9	2798.0	2691.6	2391.0	2343.0
42.5°	925.6	934.0	994.3	1118.8	1335.5	1721.3	2380.3	2916.6	2849.0	2494.0	2432.2
45°	845.7	853.1	906.5	1022.7	1232.0	1616.4	2330.3	3044.1	3036.2	2567.5	2484.2
47.5°	754.5	761.9	817.3	929.6	1128.6	1493.4	2245.4	3169.6	3296.6	2734.2	2638.1
50°	643.2	649.6	706.5	822.2	1021.2	1362.5	2127.8	3268.1	3625.1	2986.7	2866.1
52.5°	511.4	518.2	573.6	689.3	893.8	1221.8	1972.8	3332.4	4004.5	3355.4	3206.9
55°	380.4	385.4	433.4	537.3	735.9	1061.4	1778.7	3350.5	4435.0	3859.4	3673.6
57.5°	276.0	279.0	309.9	387.3	557.9	860.9	1542.9	3303.4	4947.3	4505.6	4271.7
60°	223.6	224.5	233.9	268.2	387.8	634.4	1258.0	3141.6	5503.3	5338.5	5043.9
62.5°	203.0	203.0	205.4	214.7	262.3	418.7	913.4	2806.3	6099.4	6391.2	5996.5
65°	188.8	188.8	189.7	194.1	206.9	266.7	576.6	2260.1	6602.0	7624.2	7125.1
67.5°	176.0	176.5	176.0	177.5	184.8	197.1	334.4	1561.0	6872.6	8901.8	8363.0
70°	162.8	163.8	161.3	161.3	167.2	167.7	209.3	856.0	6648.1	9972.6	9830.9
72.5°	147.1	148.6	144.6	143.6	148.1	146.1	157.4	410.8	5707.7	10292.2	10664.8
75°	133.4	135.3	126.5	124.0	124.0	122.6	128.0	210.8	3704.5	8395.9	8980.3
77.5°	121.1	125.0	110.8	103.0	101.0	96.6	104.4	128.9	1620.3	3941.8	3859.9
80°	100.0	105.4	91.2	81.9	78.4	73.5	82.4	90.2	481.9	915.3	876.6
82.5°	74.5	77.0	64.7	58.3	55.4	52.0	61.8	62.8	156.9	324.1	366.2
85°	47.6	48.5	39.7	34.3	32.8	31.4	39.2	34.3	59.8	238.3	346.1
87.5°	16.7	19.1	15.2	13.7	14.7	12.3	18.1	10.3	16.7	168.2	208.4
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)