

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: P882225

Luminaire Tested: **NAV-SB2A-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882225
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-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8903 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

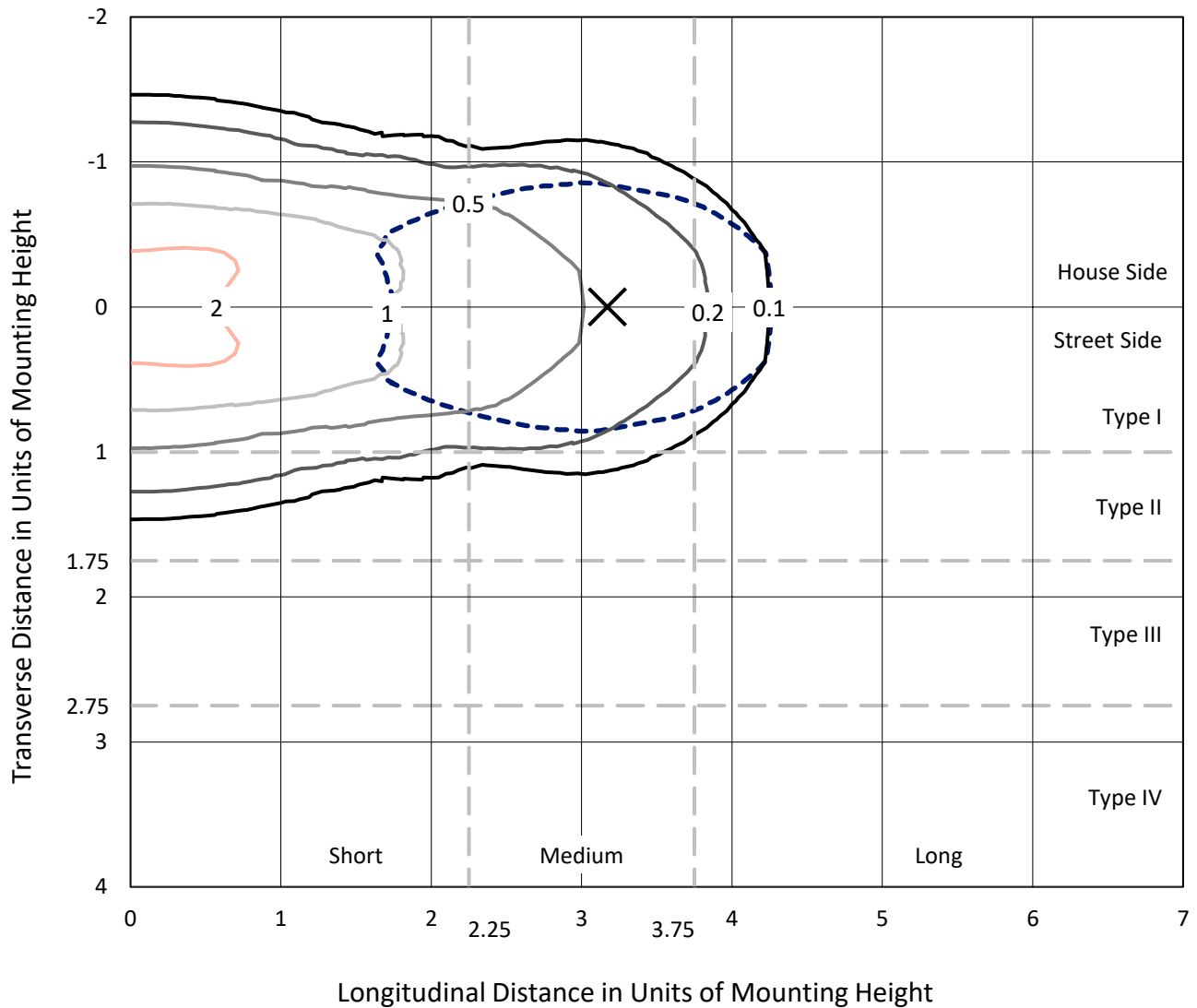
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

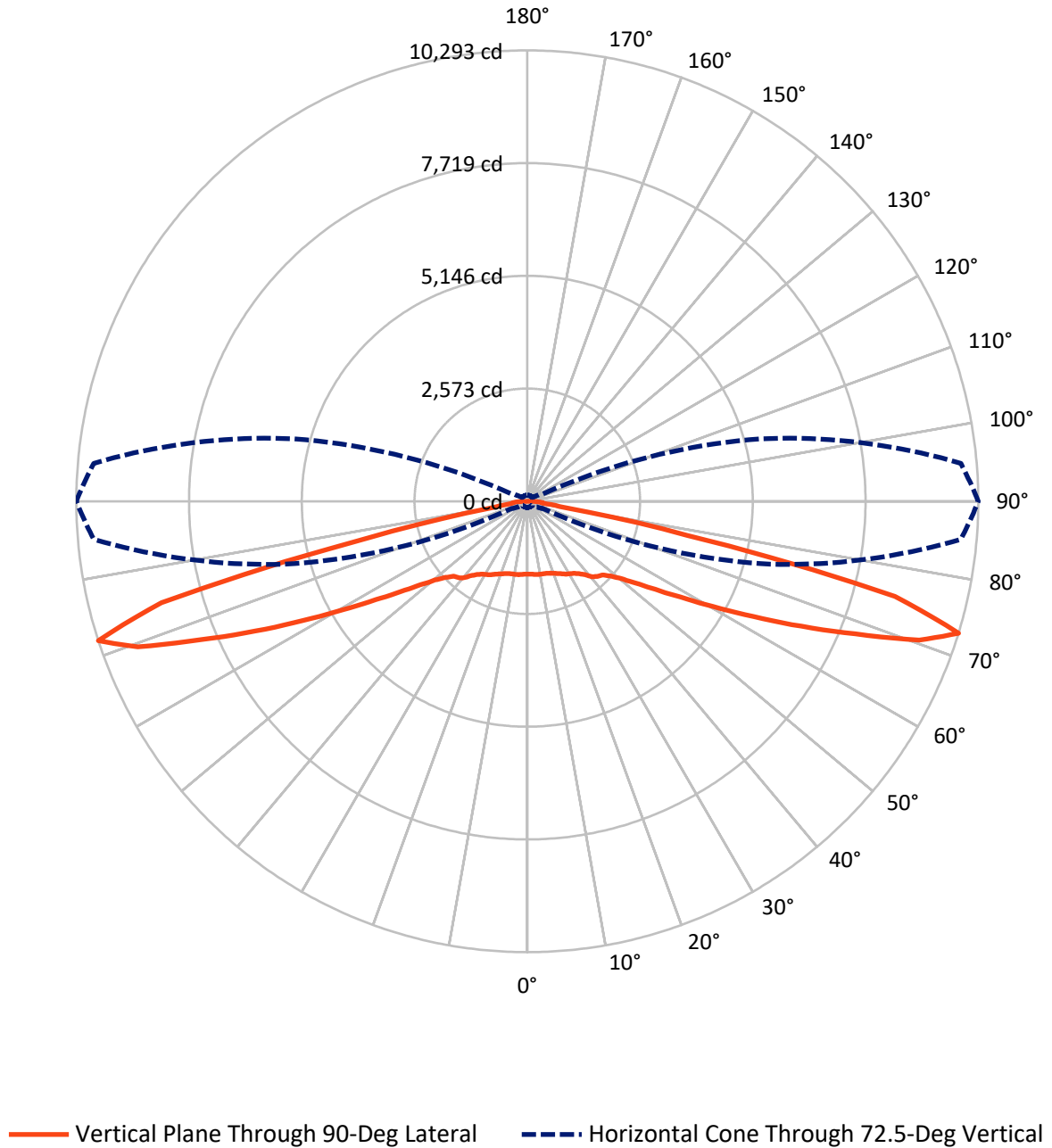
× Max cd
 - - - 1/2 Max cd



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	4451.5	0.0	4451.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4451.5	0.0	4451.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8903.0	0.0	8903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.8
10°-20°	493.2	5.5
20°-30°	822.4	9.2
30°-40°	1131.0	12.7
40°-50°	1381.3	15.5
50°-60°	1597.6	17.9
60°-70°	1904.9	21.4
70°-80°	1329.5	14.9
80°-90°	81.7	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°	8903.0	100.0
0°-180°	8903.0	100.0

Coefficient of Utilization



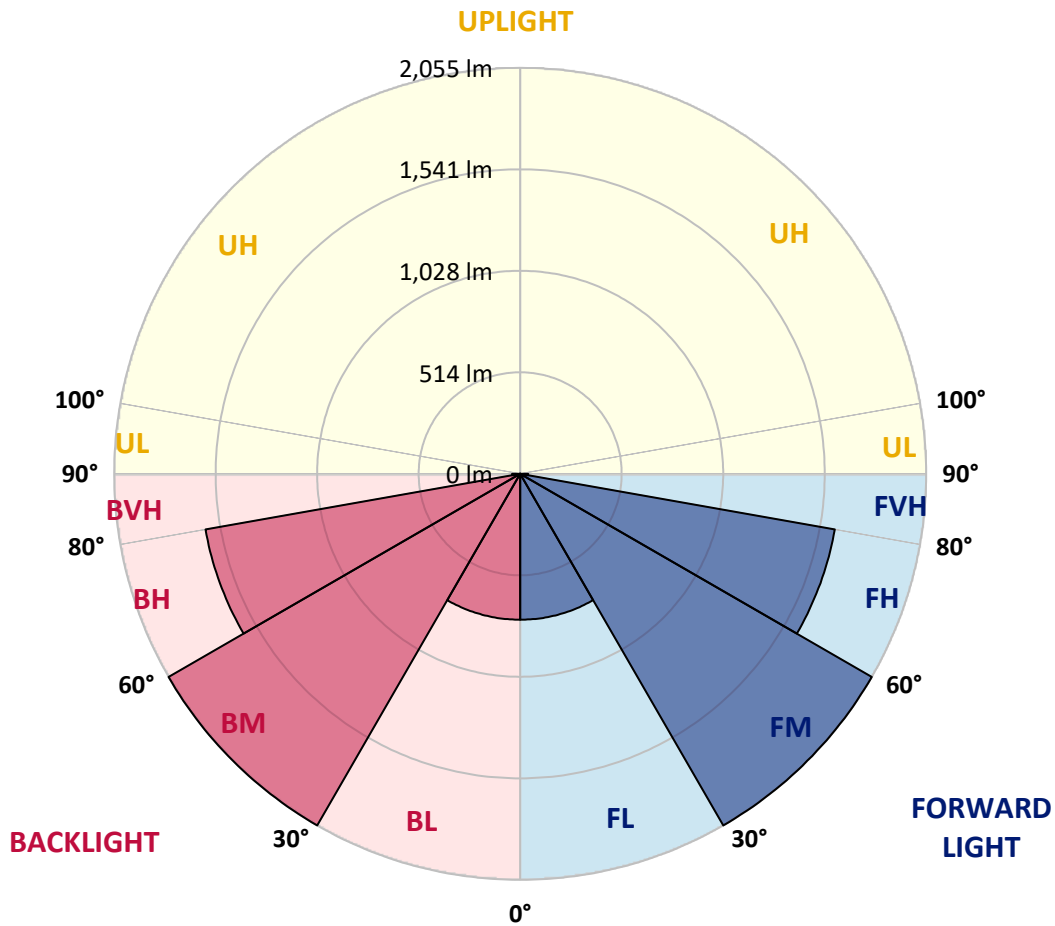
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.5	8.3			
FM (30°-60°)	2055.0	23.1			
FH (60°-80°)	1617.2	18.2			G1/1800
FVH (80°-90°)	40.8	0.5			G1/100
BL (0°-30°)	738.5	8.3	B2/1000		
BM (30°-60°)	2055.0	23.1	B2/2500		
BH (60°-80°)	1617.2	18.2	B3/2500		G3/2500
BVH (80°-90°)	40.8	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°	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6	1663.6
2.5°	1665.0	1666.9	1666.9	1665.5	1668.8	1666.0	1666.0	1664.6	1666.0	1664.6	1664.6
5°	1673.6	1675.9	1676.9	1676.4	1680.7	1678.3	1678.3	1676.4	1676.9	1675.4	1675.4
7.5°	1689.6	1693.0	1694.8	1697.2	1703.4	1700.5	1698.6	1693.0	1690.6	1686.8	1686.8
10°	1694.8	1698.6	1704.8	1717.1	1731.3	1731.8	1726.1	1711.9	1701.0	1692.5	1691.1
12.5°	1678.8	1684.0	1696.7	1721.8	1753.5	1766.3	1757.3	1733.6	1712.4	1697.2	1694.8
15°	1658.4	1664.1	1683.5	1721.3	1768.2	1798.0	1797.0	1765.8	1731.8	1708.1	1704.3
17.5°	1626.7	1632.4	1660.3	1713.3	1779.5	1828.8	1842.0	1809.8	1762.0	1730.3	1725.1
20°	1569.5	1574.7	1613.5	1687.8	1783.3	1861.4	1895.9	1867.6	1807.9	1764.9	1756.8
22.5°	1495.2	1503.2	1548.6	1643.7	1774.3	1895.5	1957.4	1938.1	1861.4	1801.8	1790.9
25°	1415.7	1424.2	1477.2	1589.8	1751.2	1920.1	2030.3	2018.0	1922.0	1847.7	1832.5
27.5°	1347.1	1356.1	1413.8	1536.3	1715.2	1929.5	2102.2	2108.4	1995.3	1898.3	1882.2
30°	1293.1	1301.7	1363.2	1493.3	1668.8	1920.1	2165.2	2207.7	2070.1	1942.3	1919.1
32.5°	1234.0	1244.9	1309.7	1440.8	1613.9	1897.4	2220.1	2315.2	2156.6	1989.6	1960.3
35°	1159.2	1169.2	1237.3	1368.8	1542.0	1860.9	2265.9	2434.4	2280.6	2061.5	2028.9
37.5°	1068.4	1077.9	1145.5	1278.9	1470.6	1809.8	2301.0	2568.8	2428.2	2165.2	2121.6
40°	977.1	986.1	1049.5	1178.6	1384.9	1744.5	2313.3	2700.3	2597.6	2307.6	2261.2
42.5°	893.3	901.4	959.6	1079.7	1288.9	1661.3	2297.2	2814.8	2749.5	2406.9	2347.3
45°	816.2	823.3	874.9	987.0	1189.0	1560.0	2248.9	2937.8	2930.3	2477.9	2397.5
47.5°	728.2	735.3	788.8	897.1	1089.2	1441.2	2167.1	3059.0	3181.5	2638.8	2546.1
50°	620.8	626.9	681.8	793.5	985.6	1314.9	2053.5	3154.1	3498.5	2882.5	2766.1
52.5°	493.5	500.1	553.6	665.3	862.6	1179.1	1904.0	3216.0	3864.7	3238.3	3094.9
55°	367.2	371.9	418.3	518.6	710.2	1024.4	1716.6	3233.6	4280.2	3724.7	3545.4
57.5°	266.4	269.2	299.0	373.8	538.5	830.9	1489.0	3188.1	4774.6	4348.3	4122.6
60°	215.8	216.7	225.7	258.8	374.3	612.3	1214.1	3032.0	5311.2	5152.2	4867.8
62.5°	195.9	195.9	198.3	207.2	253.1	404.1	881.5	2708.3	5886.5	6168.1	5787.2
65°	182.2	182.2	183.1	187.4	199.7	257.4	556.4	2181.3	6371.5	7358.1	6876.4
67.5°	169.9	170.3	169.9	171.3	178.4	190.2	322.7	1506.5	6632.7	8591.1	8071.1
70°	157.1	158.0	155.7	155.7	161.3	161.8	202.0	826.1	6416.0	9624.5	9487.7
72.5°	141.9	143.4	139.6	138.6	142.9	141.0	151.9	396.5	5508.5	9933.0	10292.6
75°	128.7	130.6	122.1	119.7	119.7	118.3	123.5	203.5	3575.2	8102.8	8666.8
77.5°	116.9	120.7	106.9	99.4	97.5	93.2	100.8	124.4	1563.8	3804.2	3725.2
80°	96.5	101.7	88.0	79.0	75.7	71.0	79.5	87.1	465.1	883.4	846.0
82.5°	71.9	74.3	62.5	56.3	53.5	50.2	59.6	60.6	151.4	312.8	353.4
85°	45.9	46.8	38.3	33.1	31.7	30.3	37.9	33.1	57.7	230.0	334.0
87.5°	16.1	18.5	14.7	13.2	14.2	11.8	17.5	9.9	16.1	162.3	201.1
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)