

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: P882085

Luminaire Tested: **NAV-SB1D-750-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882085
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-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10862 lumens
Efficiency: N/A
Efficacy: 136.5 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

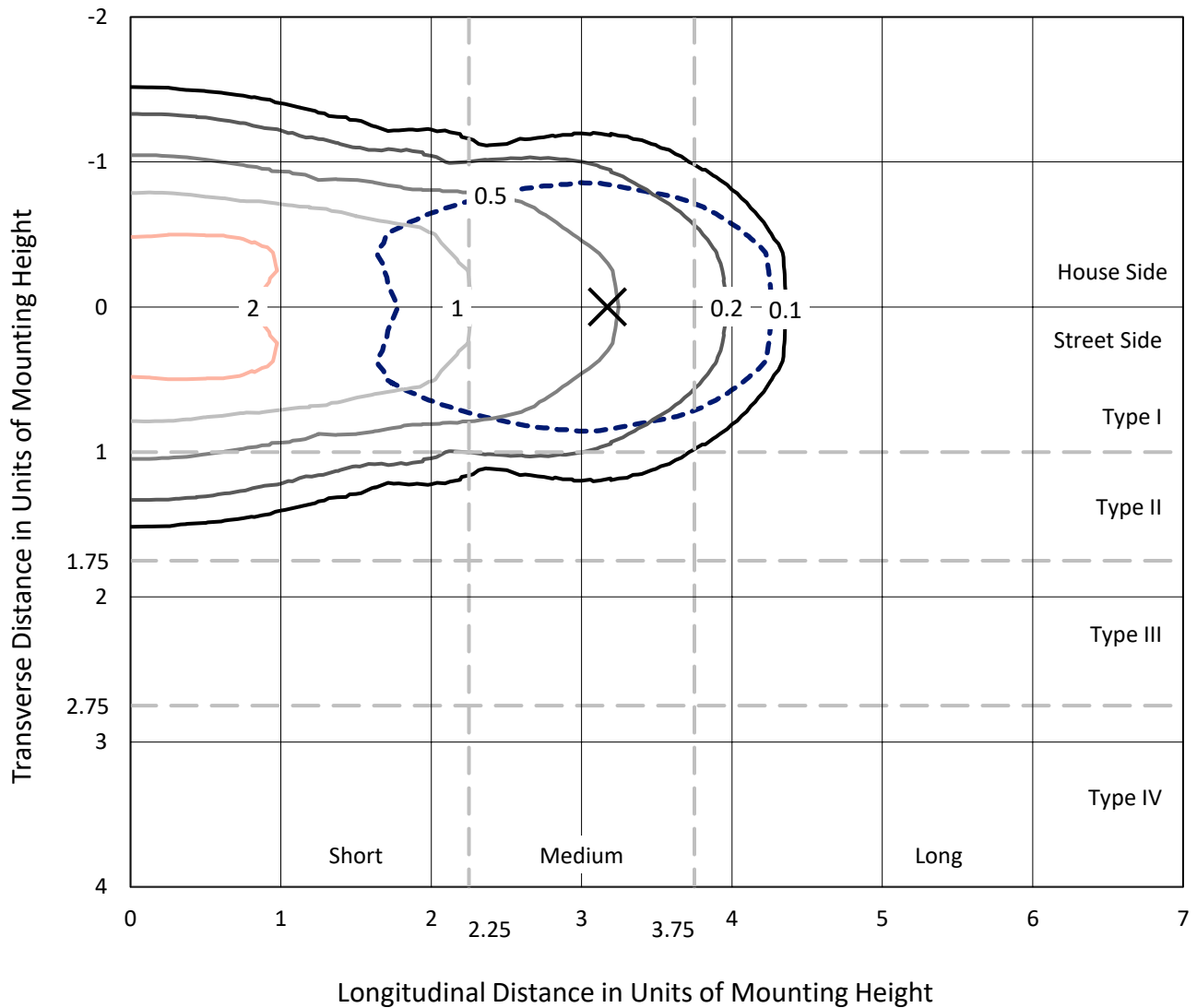
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

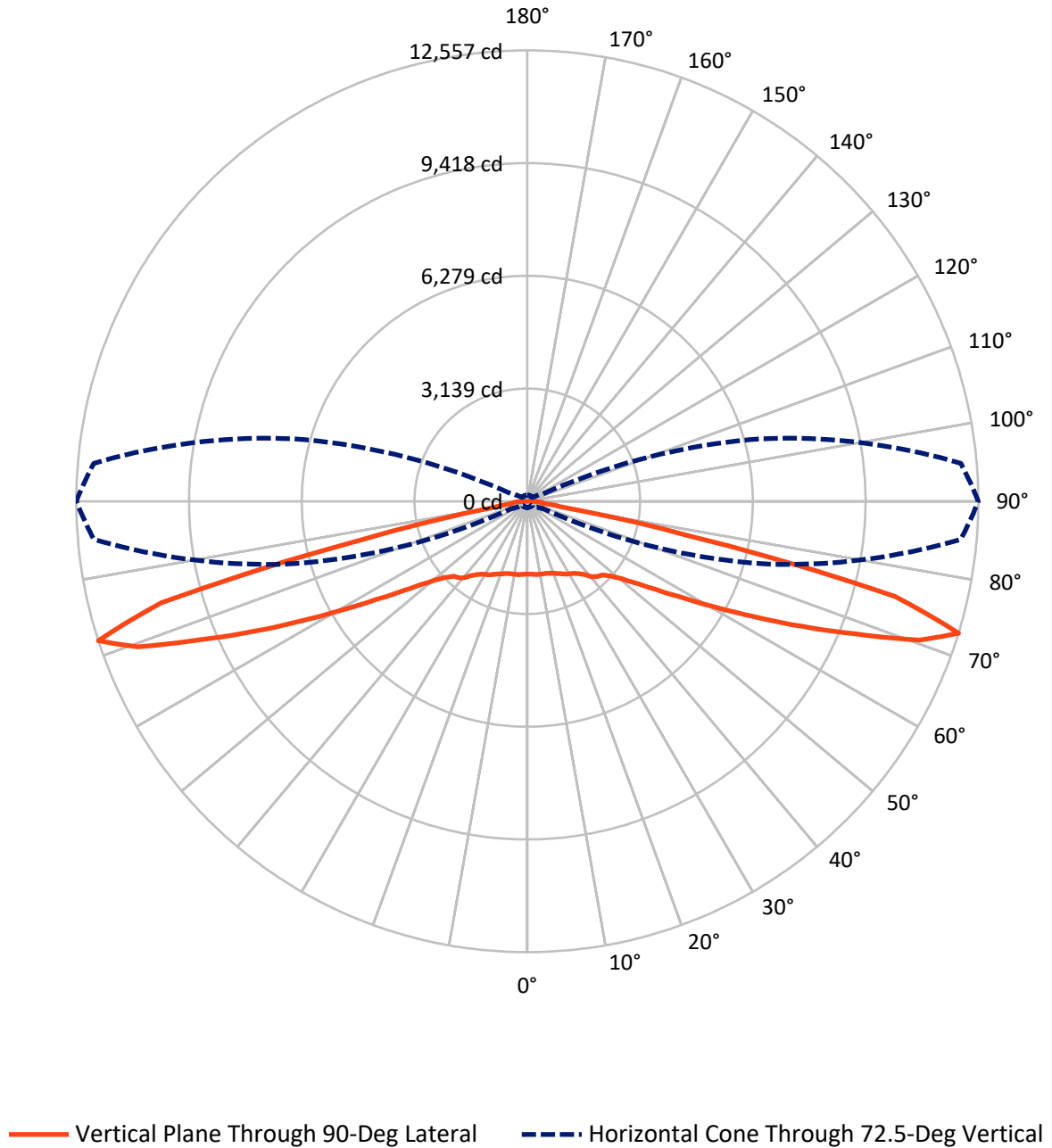
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	5431.0	0.0	5431.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5431.0	0.0	5431.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10862.0	0.0	10862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	1.8
10°-20°	601.7	5.5
20°-30°	1003.4	9.2
30°-40°	1379.9	12.7
40°-50°	1685.3	15.5
50°-60°	1949.2	17.9
60°-70°	2324.1	21.4
70°-80°	1622.0	14.9
80°-90°	99.6	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°	10862.0	100.0
0°-180°	10862.0	100.0

Coefficient of Utilization



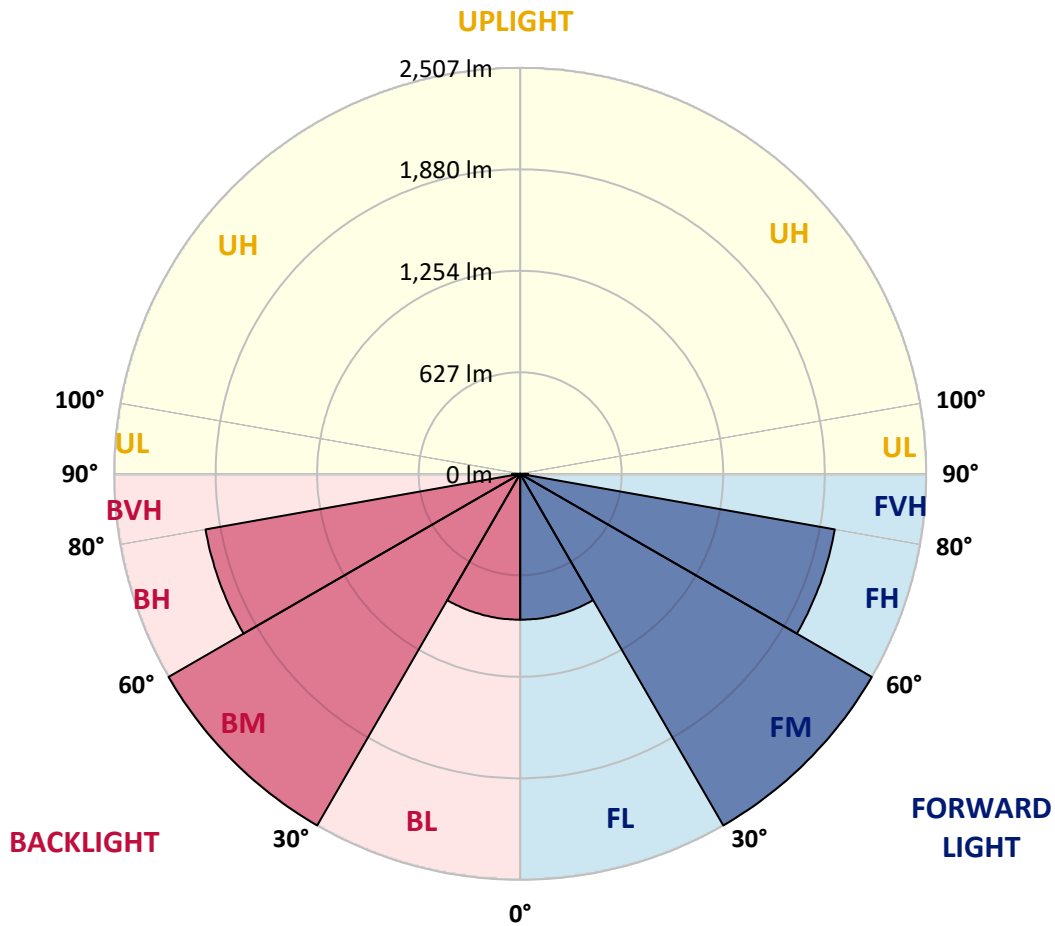
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.9	8.3			
FM (30°-60°)	2507.2	23.1			
FH (60°-80°)	1973.1	18.2			G2/5000
FVH (80°-90°)	49.8	0.5			G1/100
BL (0°-30°)	900.9	8.3	B2/1000		
BM (30°-60°)	2507.2	23.1	B3/5000		
BH (60°-80°)	1973.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	49.8	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°	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7	2029.7
2.5°	2031.4	2033.7	2033.7	2032.0	2036.0	2032.6	2032.6	2030.8	2032.6	2030.8	2030.8
5°	2041.8	2044.7	2045.8	2045.3	2050.5	2047.6	2047.6	2045.3	2045.8	2044.1	2044.1
7.5°	2061.4	2065.5	2067.8	2070.7	2078.2	2074.7	2072.4	2065.5	2062.6	2058.0	2058.0
10°	2067.8	2072.4	2079.9	2094.9	2112.2	2112.8	2105.9	2088.6	2075.3	2064.9	2063.2
12.5°	2048.2	2054.5	2070.1	2100.7	2139.4	2154.9	2144.0	2115.1	2089.1	2070.7	2067.8
15°	2023.3	2030.3	2053.9	2100.1	2157.3	2193.6	2192.5	2154.4	2112.8	2083.9	2079.3
17.5°	1984.7	1991.6	2025.6	2090.3	2171.1	2231.1	2247.3	2208.1	2149.8	2111.1	2104.7
20°	1914.8	1921.2	1968.5	2059.1	2175.7	2271.0	2313.1	2278.5	2205.7	2153.2	2143.4
22.5°	1824.2	1834.0	1889.4	2005.4	2164.8	2312.5	2388.2	2364.5	2271.0	2198.2	2185.0
25°	1727.2	1737.6	1802.2	1939.6	2136.5	2342.6	2477.1	2462.1	2344.9	2254.2	2235.8
27.5°	1643.5	1654.5	1724.9	1874.4	2092.6	2354.1	2564.8	2572.3	2434.3	2316.0	2296.4
30°	1577.7	1588.1	1663.1	1821.9	2036.0	2342.6	2641.6	2693.5	2525.6	2369.7	2341.4
32.5°	1505.5	1518.8	1597.9	1757.8	1969.1	2314.9	2708.5	2824.6	2631.2	2427.4	2391.6
35°	1414.3	1426.4	1509.6	1670.0	1881.3	2270.4	2764.5	2970.1	2782.4	2515.2	2475.3
37.5°	1303.5	1315.0	1397.6	1560.4	1794.2	2208.1	2807.3	3134.0	2962.5	2641.6	2588.5
40°	1192.1	1203.0	1280.4	1438.0	1689.7	2128.4	2822.3	3294.5	3169.2	2815.3	2758.8
42.5°	1089.9	1099.7	1170.7	1317.3	1572.5	2026.8	2802.6	3434.2	3354.5	2936.6	2863.8
45°	995.8	1004.4	1067.4	1204.2	1450.7	1903.3	2743.8	3584.3	3575.0	3023.2	2925.0
47.5°	888.4	897.1	962.3	1094.5	1328.9	1758.4	2643.9	3732.0	3881.6	3219.4	3106.3
50°	757.4	764.9	831.8	968.1	1202.5	1604.2	2505.3	3848.1	4268.3	3516.7	3374.7
52.5°	602.1	610.2	675.4	811.6	1052.4	1438.6	2322.9	3923.7	4715.1	3950.8	3775.9
55°	448.0	453.7	510.3	632.7	866.5	1249.8	2094.3	3945.1	5222.0	4544.3	4325.5
57.5°	325.0	328.5	364.8	456.0	656.9	1013.7	1816.7	3889.6	5825.2	5305.1	5029.7
60°	263.2	264.4	275.4	315.8	456.6	747.0	1481.3	3699.1	6479.8	6285.9	5938.9
62.5°	239.0	239.0	241.9	252.8	308.8	493.0	1075.5	3304.3	7181.8	7525.3	7060.6
65°	222.2	222.2	223.4	228.6	243.6	314.0	678.9	2661.2	7773.5	8977.1	8389.5
67.5°	207.2	207.8	207.2	209.0	217.6	232.1	393.7	1838.0	8092.2	10481.5	9847.1
70°	191.7	192.8	189.9	189.9	196.8	197.4	246.5	1007.9	7827.8	11742.2	11575.4
72.5°	173.2	174.9	170.3	169.1	174.3	172.0	185.3	483.8	6720.6	12118.6	12557.3
75°	157.0	159.3	148.9	146.0	146.0	144.3	150.7	248.2	4361.8	9885.7	10573.8
77.5°	142.6	147.2	130.5	121.2	118.9	113.7	123.0	151.8	1907.9	4641.2	4544.8
80°	117.8	124.1	107.4	96.4	92.4	86.6	97.0	106.2	567.5	1077.8	1032.2
82.5°	87.7	90.6	76.2	68.7	65.2	61.2	72.7	73.9	184.7	381.6	431.2
85°	56.0	57.1	46.8	40.4	38.7	36.9	46.2	40.4	70.4	280.6	407.6
87.5°	19.6	22.5	17.9	16.2	17.3	14.4	21.4	12.1	19.6	198.0	245.3
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)