

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: P882245

Luminaire Tested: **NAV-SB2A-740-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882245
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9751 lumens
Efficiency: N/A
Efficacy: 170.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

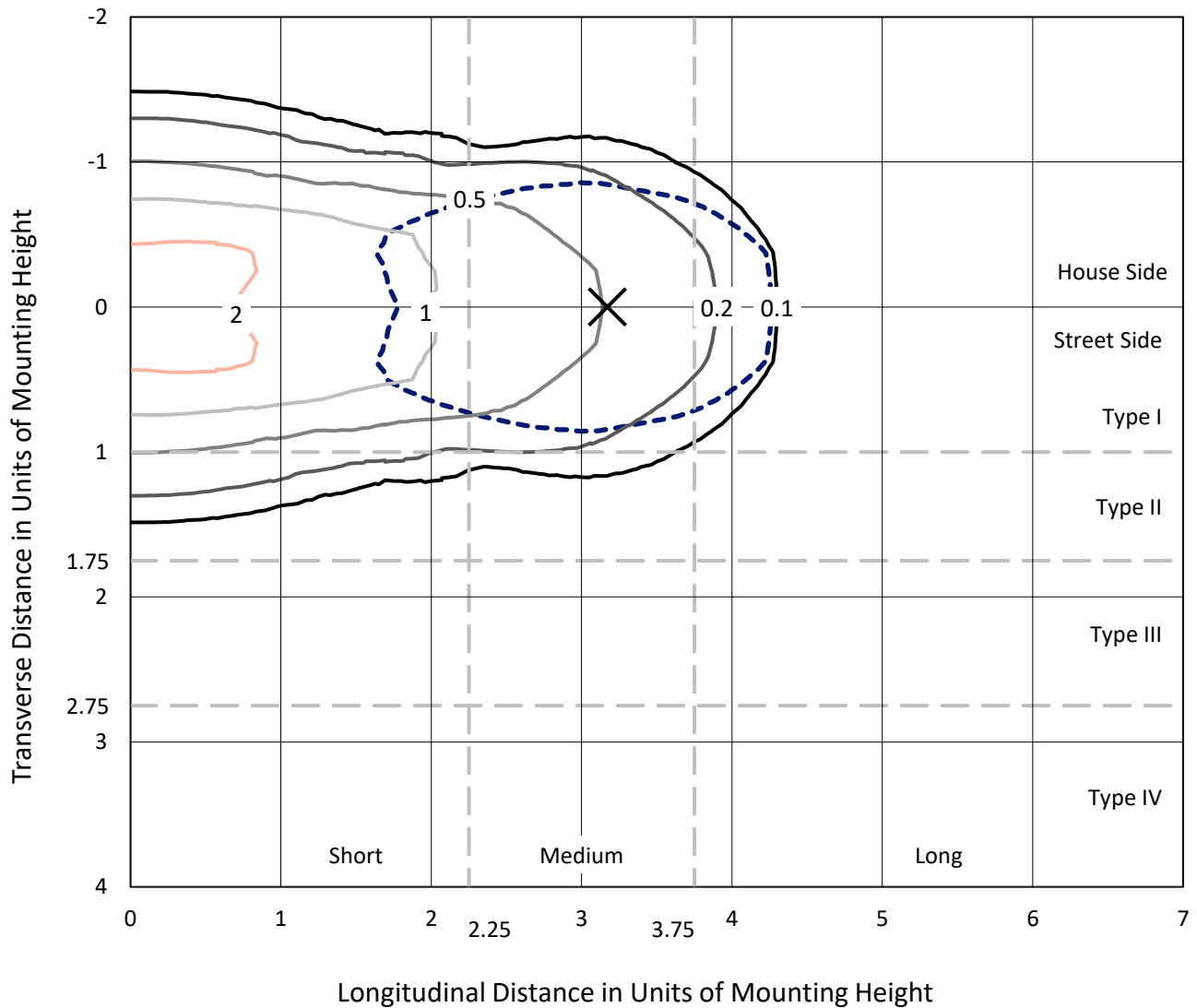
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

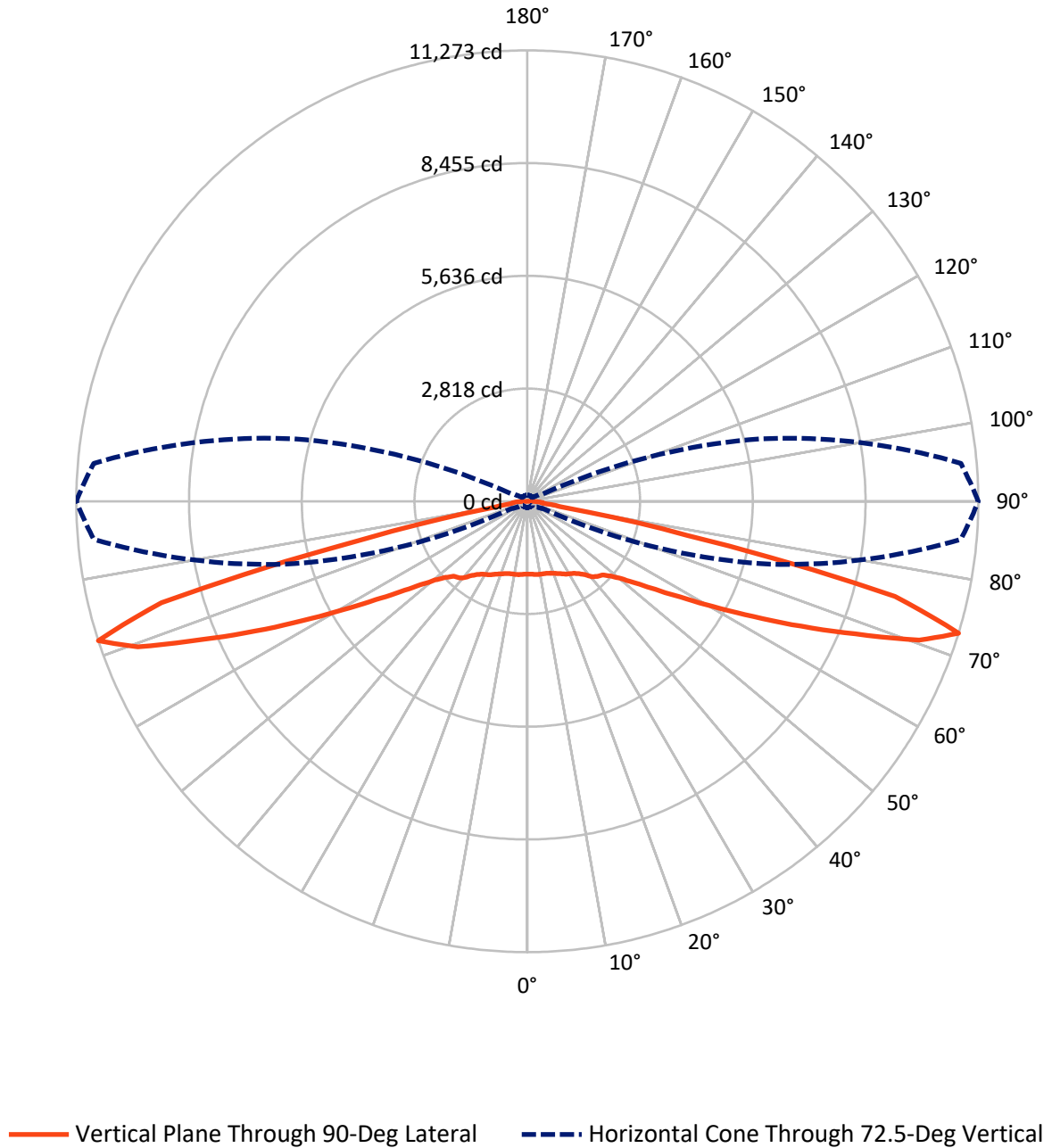
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	4875.5	0.0	4875.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4875.5	0.0	4875.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9751.0	0.0	9751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.8
10°-20°	540.2	5.5
20°-30°	900.7	9.2
30°-40°	1238.8	12.7
40°-50°	1512.9	15.5
50°-60°	1749.8	17.9
60°-70°	2086.4	21.4
70°-80°	1456.1	14.9
80°-90°	89.4	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°	9751.0	100.0
0°-180°	9751.0	100.0

Coefficient of Utilization



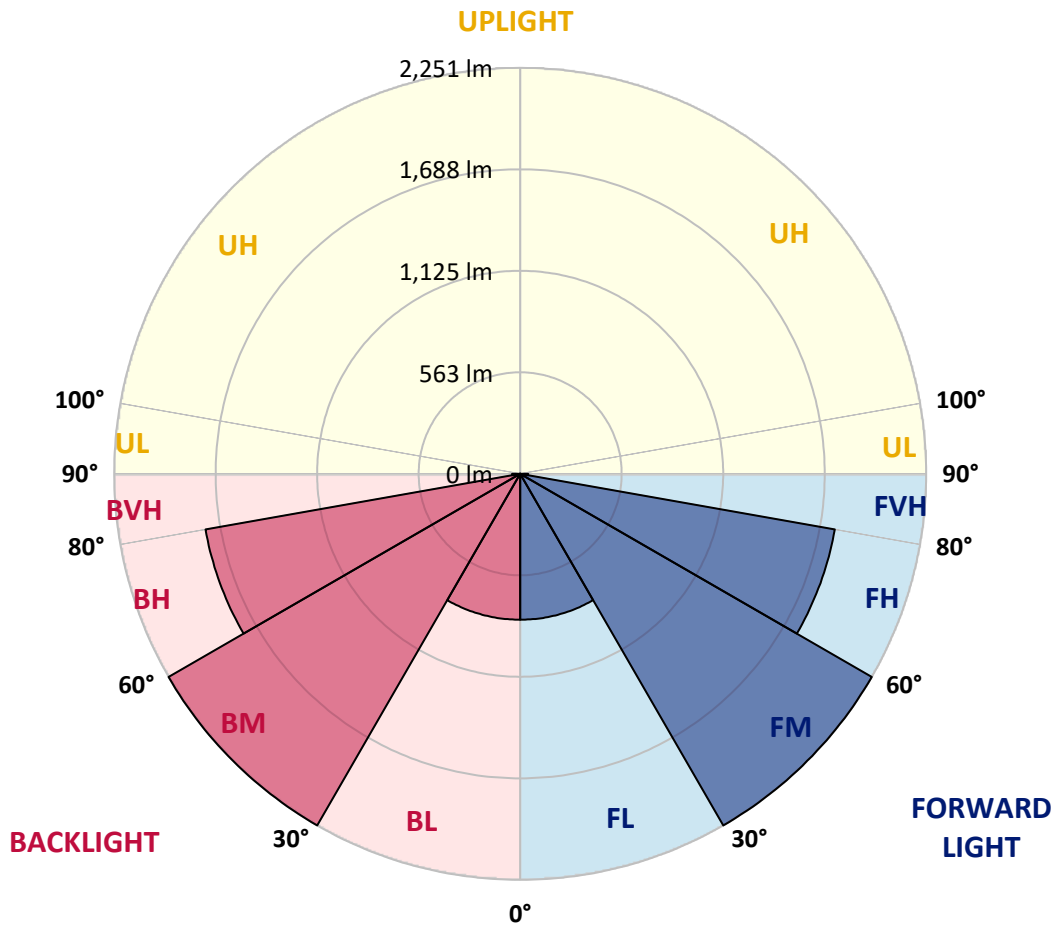
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.8	8.3			
FM (30°-60°)	2250.7	23.1			
FH (60°-80°)	1771.3	18.2			G1/1800
FVH (80°-90°)	44.7	0.5			G1/100
BL (0°-30°)	808.8	8.3	B2/1000		
BM (30°-60°)	2250.7	23.1	B2/2500		
BH (60°-80°)	1771.3	18.2	B3/2500		G3/2500
BVH (80°-90°)	44.7	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°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1823.6	1825.7	1825.7	1824.2	1827.8	1824.7	1824.7	1823.1	1824.7	1823.1	1823.1
5°	1833.0	1835.6	1836.6	1836.1	1840.7	1838.1	1838.1	1836.1	1836.6	1835.0	1835.0
7.5°	1850.6	1854.2	1856.3	1858.9	1865.6	1862.5	1860.4	1854.2	1851.6	1847.5	1847.5
10°	1856.3	1860.4	1867.2	1880.6	1896.2	1896.7	1890.5	1874.9	1863.0	1853.7	1852.1
12.5°	1838.7	1844.4	1858.4	1885.8	1920.5	1934.5	1924.7	1898.8	1875.5	1858.9	1856.3
15°	1816.4	1822.6	1843.8	1885.3	1936.6	1969.3	1968.2	1934.0	1896.7	1870.8	1866.6
17.5°	1781.7	1787.9	1818.4	1876.5	1949.0	2002.9	2017.4	1982.2	1929.9	1895.1	1889.4
20°	1719.0	1724.7	1767.1	1848.5	1953.2	2038.7	2076.5	2045.4	1980.1	1933.0	1924.2
22.5°	1637.6	1646.4	1696.1	1800.3	1943.3	2076.0	2143.9	2122.6	2038.7	1973.4	1961.5
25°	1550.5	1559.9	1617.9	1741.2	1917.9	2103.0	2223.7	2210.2	2105.0	2023.7	2007.1
27.5°	1475.4	1485.2	1548.5	1682.7	1878.6	2113.3	2302.5	2309.2	2185.4	2079.1	2061.5
30°	1416.3	1425.6	1493.0	1635.5	1827.8	2103.0	2371.4	2418.0	2267.2	2127.3	2101.9
32.5°	1351.5	1363.4	1434.4	1578.0	1767.7	2078.1	2431.5	2535.7	2362.1	2179.1	2147.0
35°	1269.6	1280.5	1355.2	1499.2	1688.9	2038.2	2481.8	2666.3	2497.8	2257.9	2222.1
37.5°	1170.2	1180.5	1254.6	1400.8	1610.6	1982.2	2520.1	2813.4	2659.5	2371.4	2323.7
40°	1070.1	1080.0	1149.4	1290.9	1516.8	1910.7	2533.6	2957.5	2845.1	2527.4	2476.6
42.5°	978.4	987.2	1051.0	1182.6	1411.6	1819.5	2516.0	3082.9	3011.4	2636.2	2570.9
45°	893.9	901.7	958.2	1081.0	1302.3	1708.6	2463.1	3217.7	3209.4	2713.9	2625.8
47.5°	797.5	805.3	863.9	982.6	1193.0	1578.5	2373.5	3350.3	3484.5	2890.1	2788.6
50°	679.9	686.6	746.8	869.1	1079.5	1440.1	2249.1	3454.5	3831.8	3157.0	3029.5
52.5°	540.5	547.8	606.3	728.6	944.7	1291.4	2085.3	3522.4	4232.9	3546.7	3389.7
55°	402.1	407.3	458.1	568.0	777.9	1122.0	1880.1	3541.5	4687.9	4079.5	3883.1
57.5°	291.8	294.9	327.5	409.4	589.7	910.0	1630.9	3491.8	5229.4	4762.5	4515.3
60°	236.3	237.3	247.2	283.5	409.9	670.6	1329.8	3320.8	5817.1	5642.9	5331.5
62.5°	214.5	214.5	217.1	227.0	277.3	442.6	965.5	2966.3	6447.2	6755.6	6338.4
65°	199.5	199.5	200.6	205.2	218.7	281.9	609.4	2389.0	6978.4	8058.9	7531.4
67.5°	186.0	186.6	186.0	187.6	195.4	208.3	353.4	1650.0	7264.5	9409.4	8839.9
70°	172.1	173.1	170.5	170.5	176.7	177.2	221.3	904.8	7027.1	10541.2	10391.4
72.5°	155.5	157.0	152.9	151.8	156.5	154.4	166.4	434.3	6033.2	10879.1	11272.9
75°	141.0	143.0	133.7	131.1	131.1	129.6	135.3	222.8	3915.7	8874.6	9492.3
77.5°	128.0	132.1	117.1	108.8	106.8	102.1	110.4	136.3	1712.7	4166.5	4080.0
80°	105.7	111.4	96.4	86.5	82.9	77.7	87.1	95.4	509.4	967.5	926.6
82.5°	78.8	81.4	68.4	61.7	58.6	54.9	65.3	66.3	165.8	342.5	387.1
85°	50.3	51.3	42.0	36.3	34.7	33.2	41.5	36.3	63.2	251.9	365.9
87.5°	17.6	20.2	16.1	14.5	15.5	13.0	19.2	10.9	17.6	177.8	220.2
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)