

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: P882955

Luminaire Tested: **NAV-SB3A-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882955
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-SB3A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10815 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

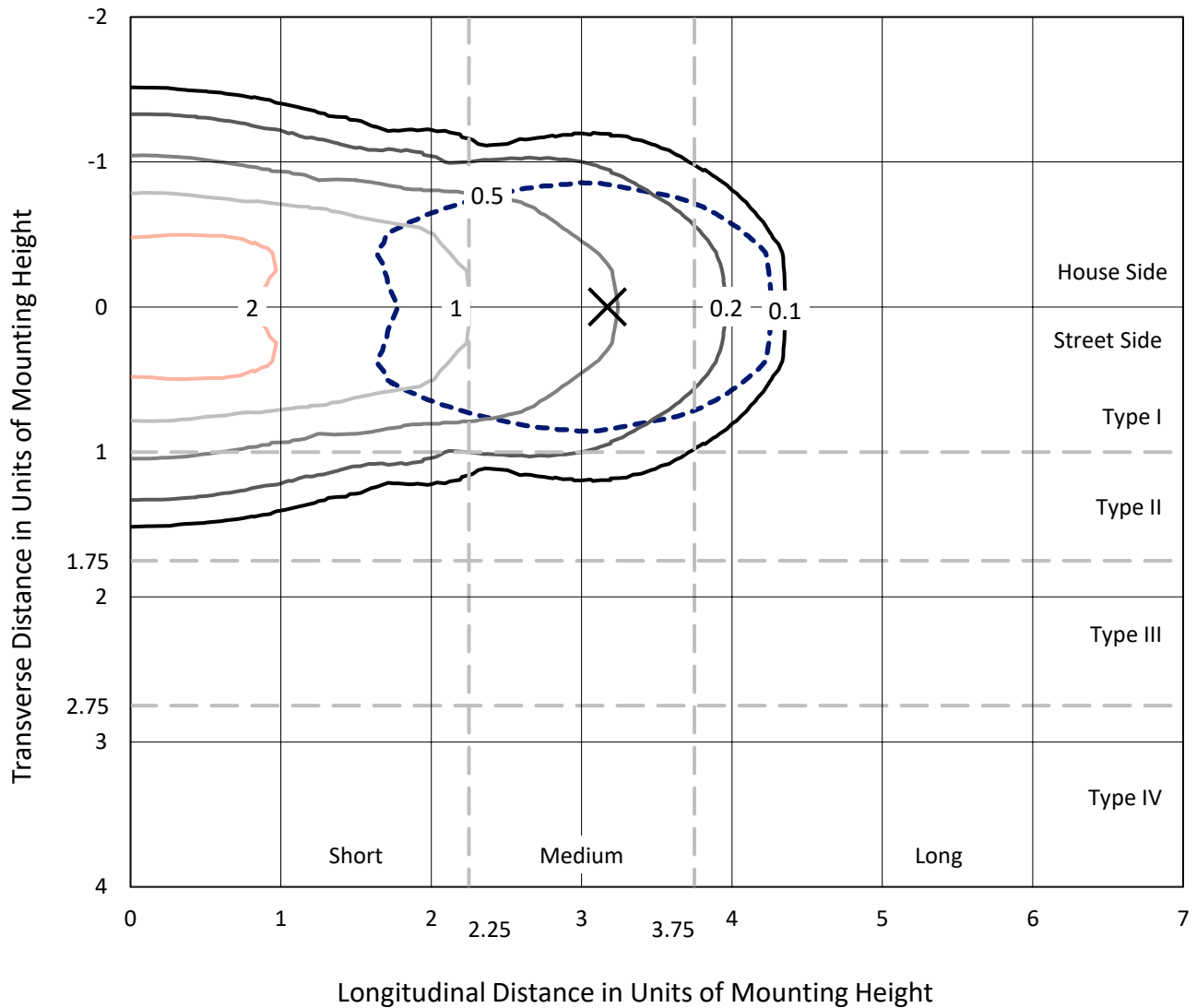
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

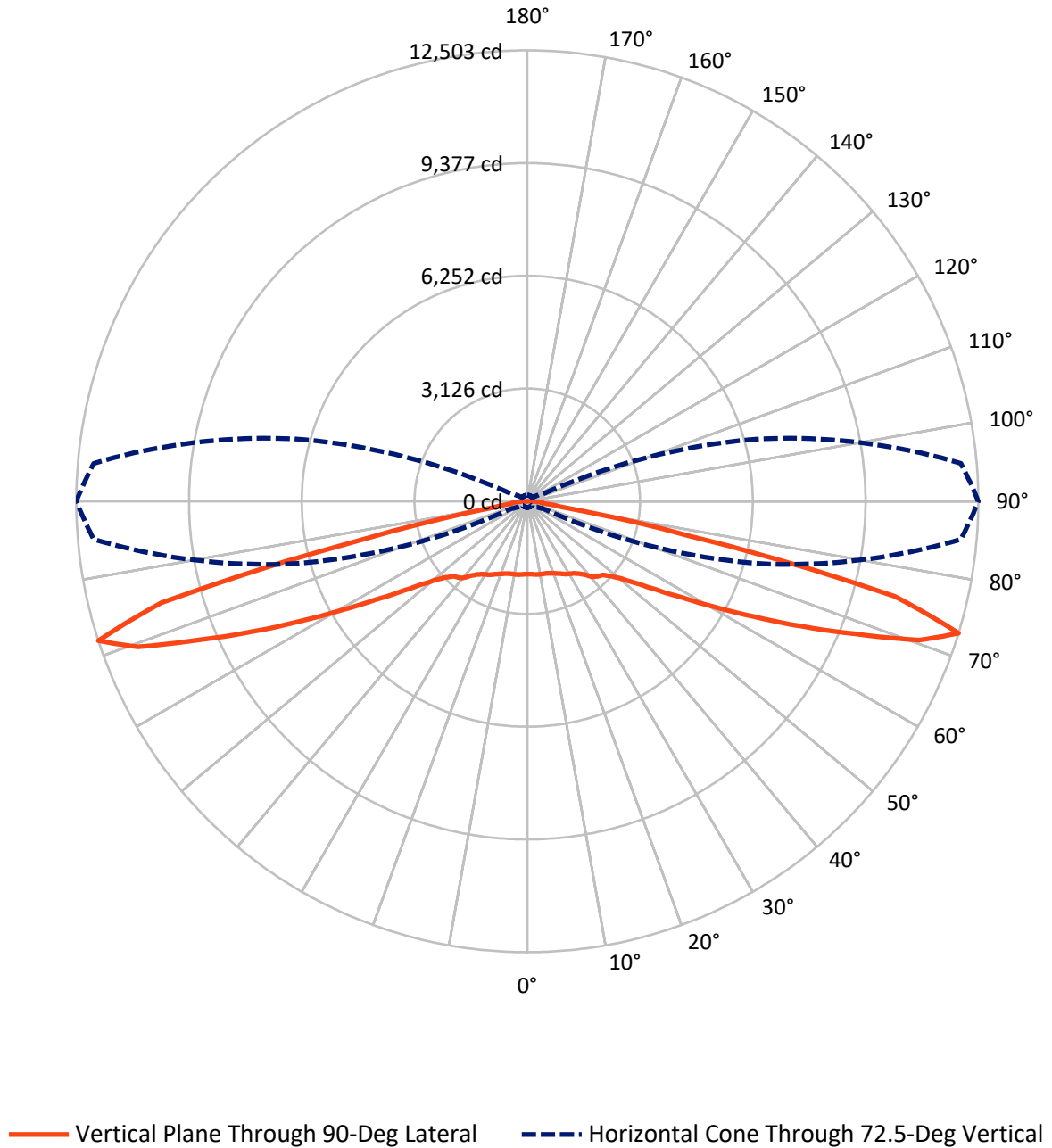
✕ Max cd
 - - - 1/2 Max cd



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	5407.5	0.0	5407.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5407.5	0.0	5407.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10815.0	0.0	10815.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	1.8
10°-20°	599.1	5.5
20°-30°	999.0	9.2
30°-40°	1373.9	12.7
40°-50°	1678.0	15.5
50°-60°	1940.7	17.9
60°-70°	2314.0	21.4
70°-80°	1615.0	14.9
80°-90°	99.2	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°	10815.0	100.0
0°-180°	10815.0	100.0



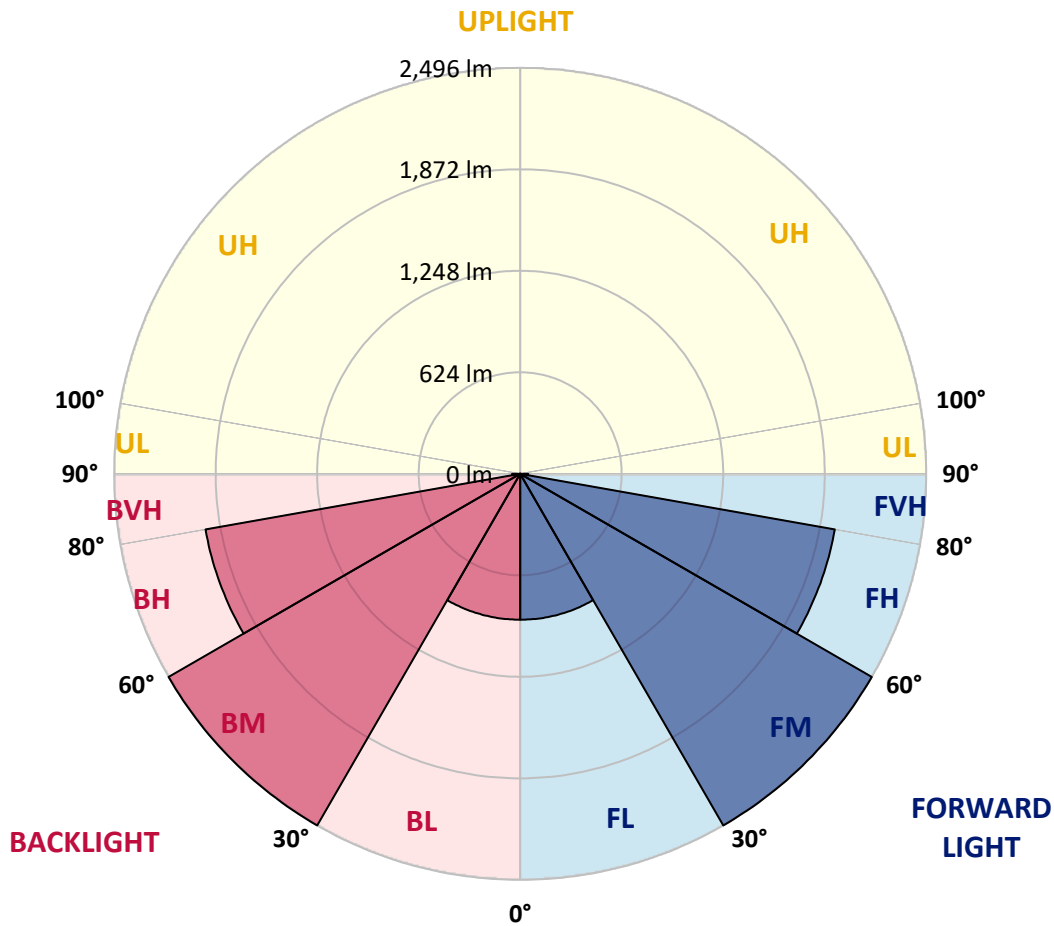
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.0	8.3			
FM (30°-60°)	2496.3	23.1			
FH (60°-80°)	1964.5	18.2			G2/5000
FVH (80°-90°)	49.6	0.5			G1/100
BL (0°-30°)	897.0	8.3	B2/1000		
BM (30°-60°)	2496.3	23.1	B2/2500		
BH (60°-80°)	1964.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	49.6	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°	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9	2020.9
2.5°	2022.6	2024.9	2024.9	2023.2	2027.2	2023.8	2023.8	2022.0	2023.8	2022.0	2022.0
5°	2033.0	2035.8	2037.0	2036.4	2041.6	2038.7	2038.7	2036.4	2037.0	2035.3	2035.3
7.5°	2052.5	2056.5	2058.8	2061.7	2069.2	2065.7	2063.4	2056.5	2053.7	2049.1	2049.1
10°	2058.8	2063.4	2070.9	2085.8	2103.1	2103.7	2096.8	2079.5	2066.3	2056.0	2054.2
12.5°	2039.3	2045.6	2061.1	2091.6	2130.1	2145.6	2134.7	2106.0	2080.1	2061.7	2058.8
15°	2014.6	2021.5	2045.0	2091.0	2147.9	2184.1	2183.0	2145.0	2103.7	2074.9	2070.3
17.5°	1976.1	1983.0	2016.9	2081.2	2161.7	2221.5	2237.6	2198.5	2140.4	2101.9	2095.6
20°	1906.5	1912.8	1960.0	2050.2	2166.3	2261.2	2303.1	2268.6	2196.2	2143.9	2134.1
22.5°	1816.3	1826.0	1881.2	1996.8	2155.4	2302.5	2377.8	2354.3	2261.2	2188.7	2175.5
25°	1719.7	1730.1	1794.4	1931.2	2127.2	2332.4	2466.3	2451.4	2334.7	2244.5	2226.1
27.5°	1636.4	1647.3	1717.4	1866.3	2083.5	2343.9	2553.7	2561.2	2423.8	2306.0	2286.4
30°	1570.9	1581.2	1655.9	1814.0	2027.2	2332.4	2630.2	2681.9	2514.6	2359.4	2331.3
32.5°	1499.0	1512.2	1591.0	1750.2	1960.5	2304.8	2696.8	2812.4	2619.8	2416.9	2381.3
35°	1408.2	1420.3	1503.0	1662.8	1873.2	2260.6	2752.6	2957.2	2770.4	2504.3	2464.6
37.5°	1297.8	1309.3	1391.5	1553.6	1786.4	2198.5	2795.1	3120.4	2949.7	2630.2	2577.3
40°	1186.9	1197.8	1274.8	1431.8	1682.4	2119.2	2810.1	3280.2	3155.5	2803.2	2746.8
42.5°	1085.2	1094.9	1165.6	1311.6	1565.7	2018.0	2790.5	3419.3	3340.0	2923.9	2851.4
45°	991.5	1000.1	1062.8	1199.0	1444.4	1895.0	2731.9	3568.8	3559.6	3010.1	2912.4
47.5°	884.6	893.2	958.1	1089.8	1323.1	1750.8	2632.5	3715.9	3864.8	3205.5	3092.8
50°	754.1	761.6	828.2	963.9	1197.2	1597.3	2494.5	3831.4	4249.9	3501.5	3360.1
52.5°	599.5	607.5	672.5	808.1	1047.8	1432.3	2312.9	3906.7	4694.7	3933.7	3759.6
55°	446.0	451.8	508.1	629.9	862.7	1244.4	2085.3	3928.0	5199.4	4524.6	4306.8
57.5°	323.6	327.0	363.3	454.1	654.1	1009.3	1808.8	3872.8	5800.0	5282.2	5008.0
60°	262.1	263.2	274.2	314.4	454.6	743.8	1474.9	3683.1	6451.8	6258.7	5913.3
62.5°	238.0	238.0	240.8	251.7	307.5	490.9	1070.8	3290.0	7150.7	7492.7	7030.0
65°	221.3	221.3	222.4	227.6	242.6	312.7	675.9	2649.7	7739.9	8938.3	8353.2
67.5°	206.3	206.9	206.3	208.1	216.7	231.1	392.0	1830.1	8057.1	10436.1	9804.5
70°	190.8	192.0	189.1	189.1	196.0	196.6	245.4	1003.6	7793.9	11691.4	11525.3
72.5°	172.4	174.2	169.6	168.4	173.6	171.3	184.5	481.7	6691.5	12066.2	12503.0
75°	156.3	158.6	148.3	145.4	145.4	143.7	150.0	247.2	4343.0	9843.0	10528.1
77.5°	142.0	146.6	129.9	120.7	118.4	113.2	122.4	151.2	1899.6	4621.2	4525.2
80°	117.3	123.6	106.9	96.0	92.0	86.2	96.6	105.8	565.0	1073.1	1027.7
82.5°	87.4	90.2	75.9	68.4	64.9	60.9	72.4	73.6	183.9	379.9	429.4
85°	55.8	56.9	46.6	40.2	38.5	36.8	46.0	40.2	70.1	279.3	405.8
87.5°	19.5	22.4	17.8	16.1	17.2	14.4	21.3	12.1	19.5	197.1	244.3
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)