

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: P882545

Luminaire Tested: **NAV-SB2C-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882545
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-SB2C-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12032 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

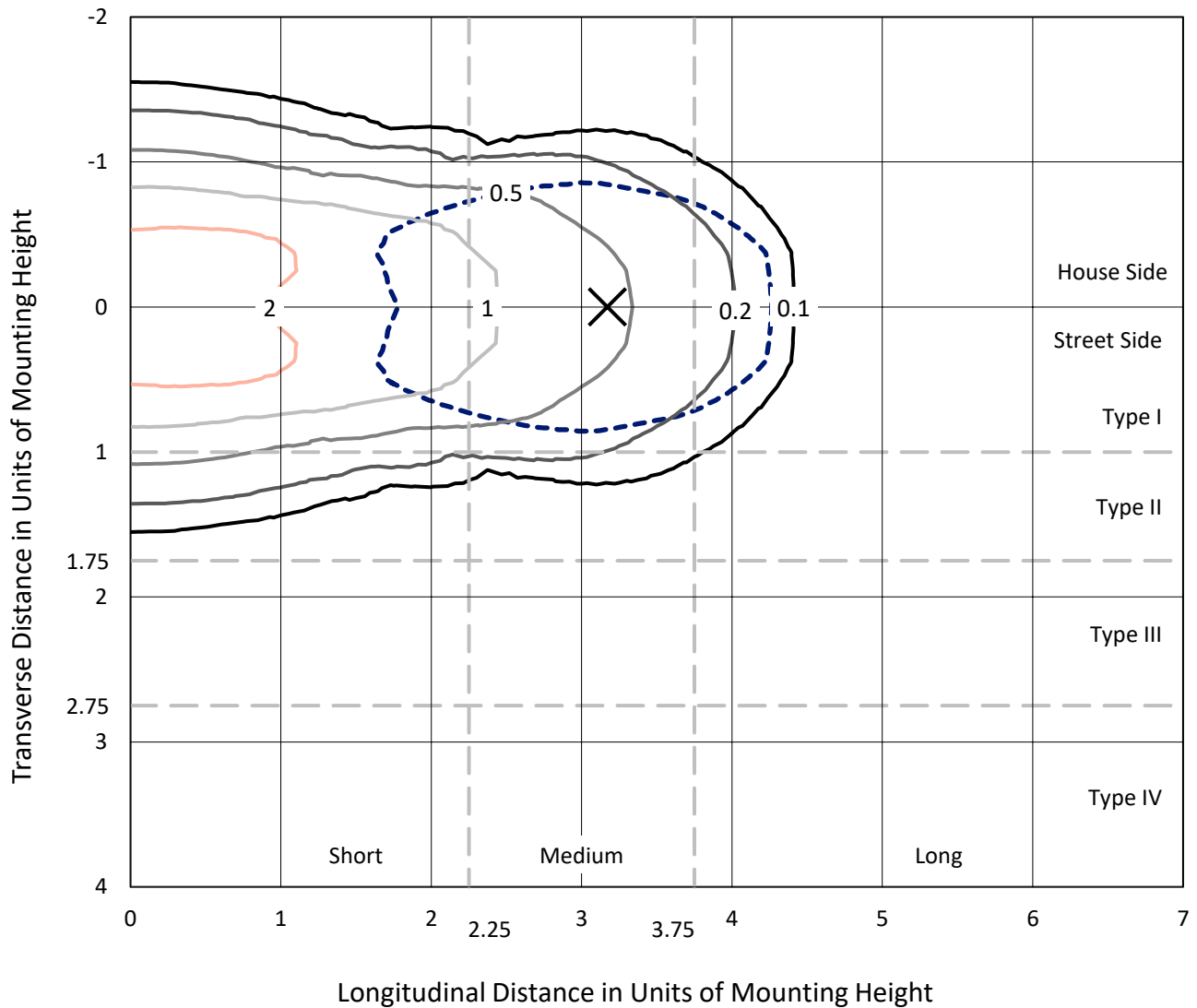
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

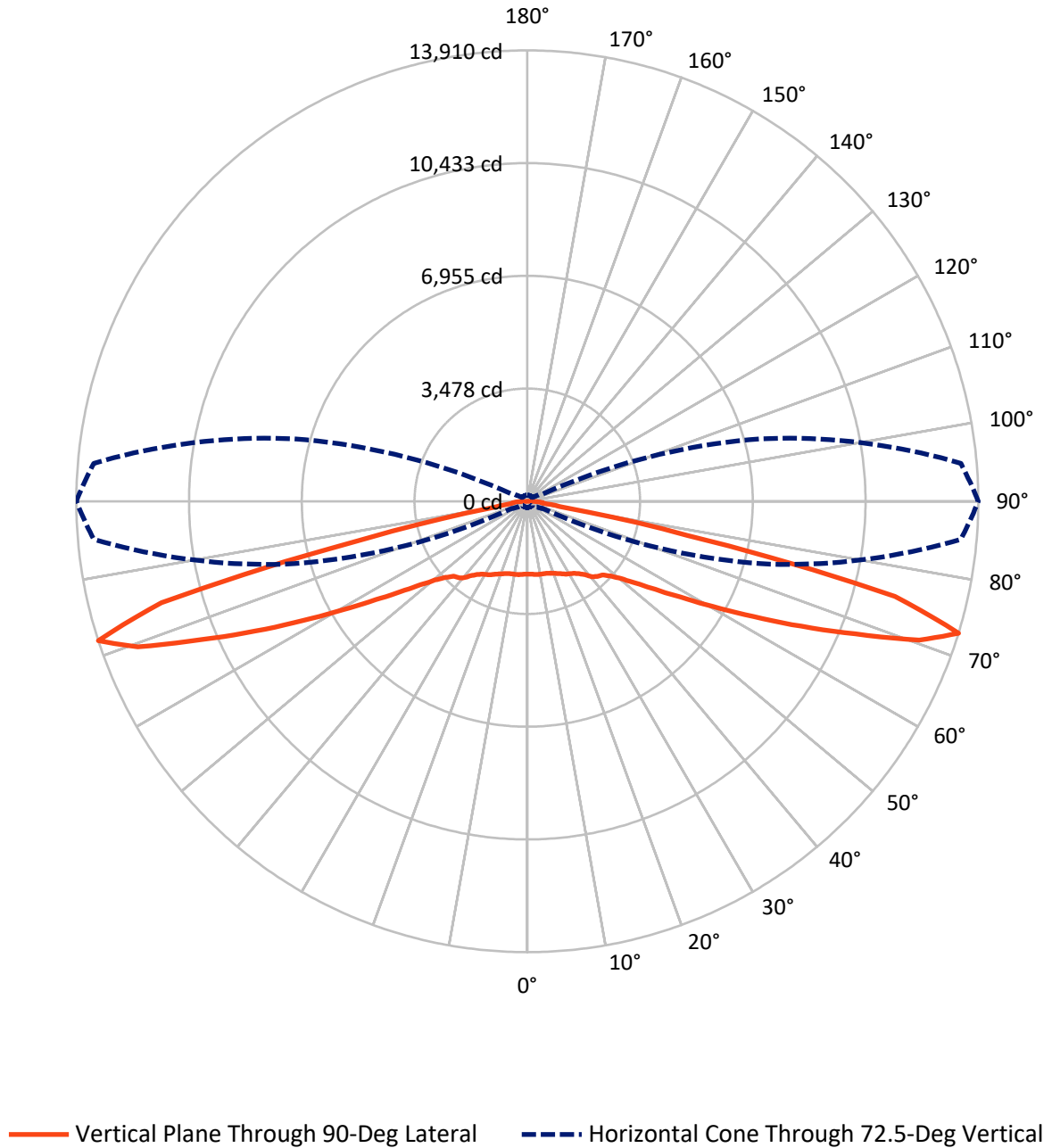
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	6016.0	0.0	6016.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6016.0	0.0	6016.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12032.0	0.0	12032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	1.8
10°-20°	666.6	5.5
20°-30°	1111.4	9.2
30°-40°	1528.6	12.7
40°-50°	1866.8	15.5
50°-60°	2159.1	17.9
60°-70°	2574.4	21.4
70°-80°	1796.8	14.9
80°-90°	110.4	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°	12032.0	100.0
0°-180°	12032.0	100.0

Coefficient of Utilization



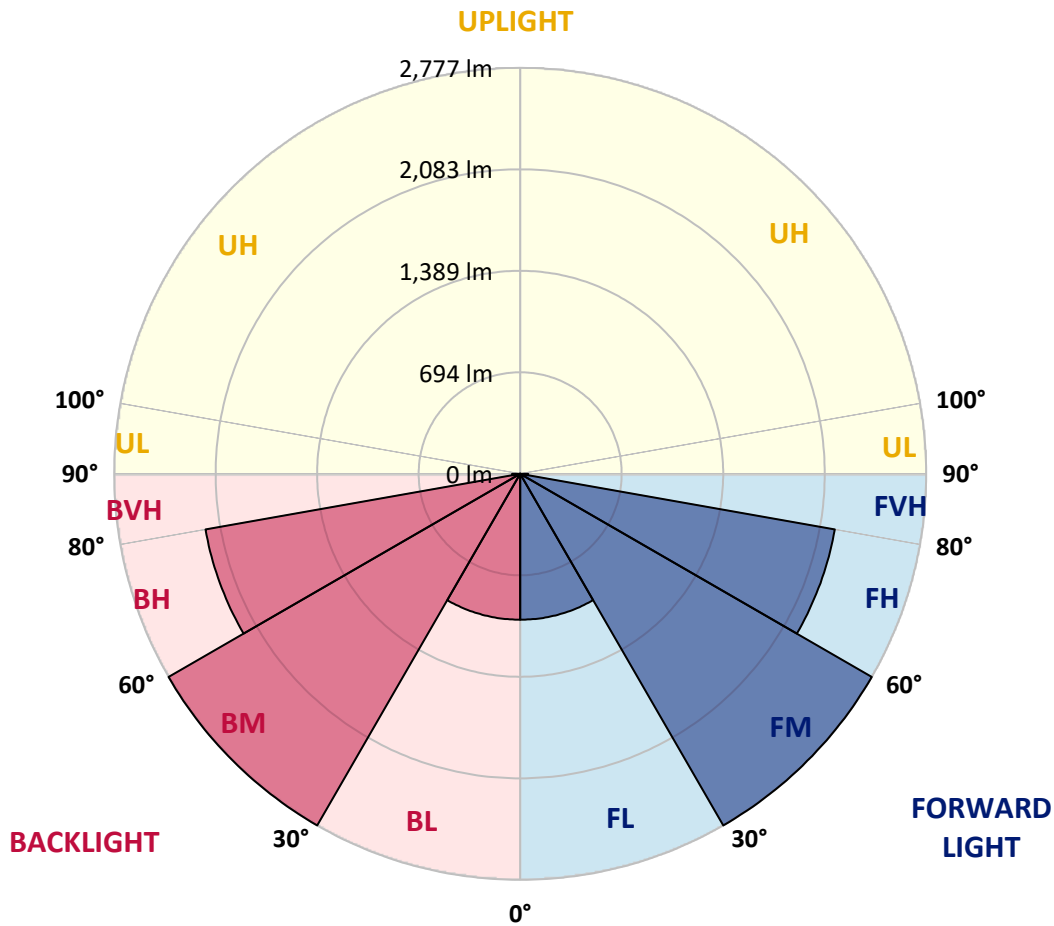
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.0	8.3			
FM (30°-60°)	2777.2	23.1			
FH (60°-80°)	2185.6	18.2			G2/5000
FVH (80°-90°)	55.2	0.5			G1/100
BL (0°-30°)	998.0	8.3	B2/1000		
BM (30°-60°)	2777.2	23.1	B3/5000		
BH (60°-80°)	2185.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	55.2	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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2250.2	2252.8	2252.8	2250.9	2255.3	2251.5	2251.5	2249.6	2251.5	2249.6	2249.6
5°	2261.7	2264.9	2266.2	2265.6	2271.3	2268.1	2268.1	2265.6	2266.2	2264.3	2264.3
7.5°	2283.5	2288.0	2290.5	2293.7	2302.0	2298.2	2295.6	2288.0	2284.8	2279.6	2279.6
10°	2290.5	2295.6	2303.9	2320.6	2339.7	2340.4	2332.7	2313.5	2298.8	2287.3	2285.4
12.5°	2268.8	2275.8	2293.1	2327.0	2369.8	2387.1	2374.9	2342.9	2314.2	2293.7	2290.5
15°	2241.3	2248.9	2275.2	2326.3	2389.6	2429.9	2428.6	2386.4	2340.4	2308.4	2303.3
17.5°	2198.4	2206.1	2243.8	2315.4	2405.0	2471.5	2489.4	2445.9	2381.3	2338.5	2331.4
20°	2121.1	2128.1	2180.5	2280.9	2410.1	2515.6	2562.3	2523.9	2443.3	2385.1	2374.3
22.5°	2020.7	2031.5	2092.9	2221.4	2397.9	2561.6	2645.4	2619.2	2515.6	2435.0	2420.3
25°	1913.2	1924.7	1996.4	2148.6	2366.6	2594.9	2743.9	2727.3	2597.4	2497.1	2476.6
27.5°	1820.5	1832.7	1910.7	2076.3	2318.0	2607.7	2841.1	2849.4	2696.6	2565.5	2543.7
30°	1747.6	1759.1	1842.3	2018.1	2255.3	2594.9	2926.1	2983.7	2797.6	2624.9	2593.6
32.5°	1667.7	1682.4	1770.0	1947.1	2181.2	2564.2	3000.3	3128.8	2914.6	2688.9	2649.2
35°	1566.7	1580.1	1672.2	1849.9	2084.0	2515.0	3062.3	3290.0	3082.1	2786.1	2742.0
37.5°	1443.9	1456.7	1548.1	1728.4	1987.4	2445.9	3109.6	3471.6	3281.7	2926.1	2867.3
40°	1320.5	1332.6	1418.3	1592.9	1871.7	2357.7	3126.3	3649.3	3510.6	3118.6	3055.9
42.5°	1207.3	1218.2	1296.8	1459.2	1741.9	2245.1	3104.5	3804.1	3715.8	3252.9	3172.3
45°	1103.1	1112.6	1182.3	1333.9	1606.9	2108.3	3039.3	3970.3	3960.1	3348.8	3240.1
47.5°	984.1	993.7	1066.0	1212.4	1472.0	1947.8	2928.7	4134.0	4299.7	3566.2	3440.9
50°	839.0	847.3	921.4	1072.4	1332.0	1777.0	2775.2	4262.6	4728.1	3895.5	3738.2
52.5°	666.9	675.9	748.2	899.1	1165.7	1593.5	2573.1	4346.3	5223.0	4376.4	4182.6
55°	496.2	502.6	565.3	700.8	959.8	1384.4	2319.9	4370.0	5784.5	5033.8	4791.4
57.5°	360.0	363.8	404.1	505.2	727.7	1122.9	2012.3	4308.6	6452.7	5876.5	5571.5
60°	291.6	292.9	305.0	349.8	505.8	827.4	1640.8	4097.6	7177.8	6963.0	6578.7
62.5°	264.7	264.7	267.9	280.1	342.1	546.1	1191.3	3660.2	7955.4	8335.9	7821.1
65°	246.2	246.2	247.5	253.2	269.8	347.9	752.0	2947.9	8610.8	9944.1	9293.1
67.5°	229.6	230.2	229.6	231.5	241.1	257.1	436.1	2036.0	8963.8	11610.5	10907.7
70°	212.3	213.6	210.4	210.4	218.1	218.7	273.0	1116.5	8670.9	13007.1	12822.3
72.5°	191.8	193.8	188.6	187.4	193.1	190.6	205.3	535.9	7444.5	13424.0	13910.0
75°	173.9	176.5	165.0	161.8	161.8	159.9	166.9	275.0	4831.7	10950.6	11712.8
77.5°	157.9	163.1	144.5	134.3	131.7	126.0	136.2	168.2	2113.4	5141.2	5034.4
80°	130.4	137.5	118.9	106.8	102.3	95.9	107.4	117.7	628.6	1193.9	1143.3
82.5°	97.2	100.4	84.4	76.1	72.3	67.8	80.6	81.8	204.6	422.7	477.7
85°	62.0	63.3	51.8	44.8	42.8	40.9	51.2	44.8	78.0	310.8	451.5
87.5°	21.7	24.9	19.8	17.9	19.2	16.0	23.7	13.4	21.7	219.3	271.8
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)