

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: P882895

Luminaire Tested: **NAV-SB3A-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882895
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 12063 lumens
Efficiency: N/A
Efficacy: 142.4 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

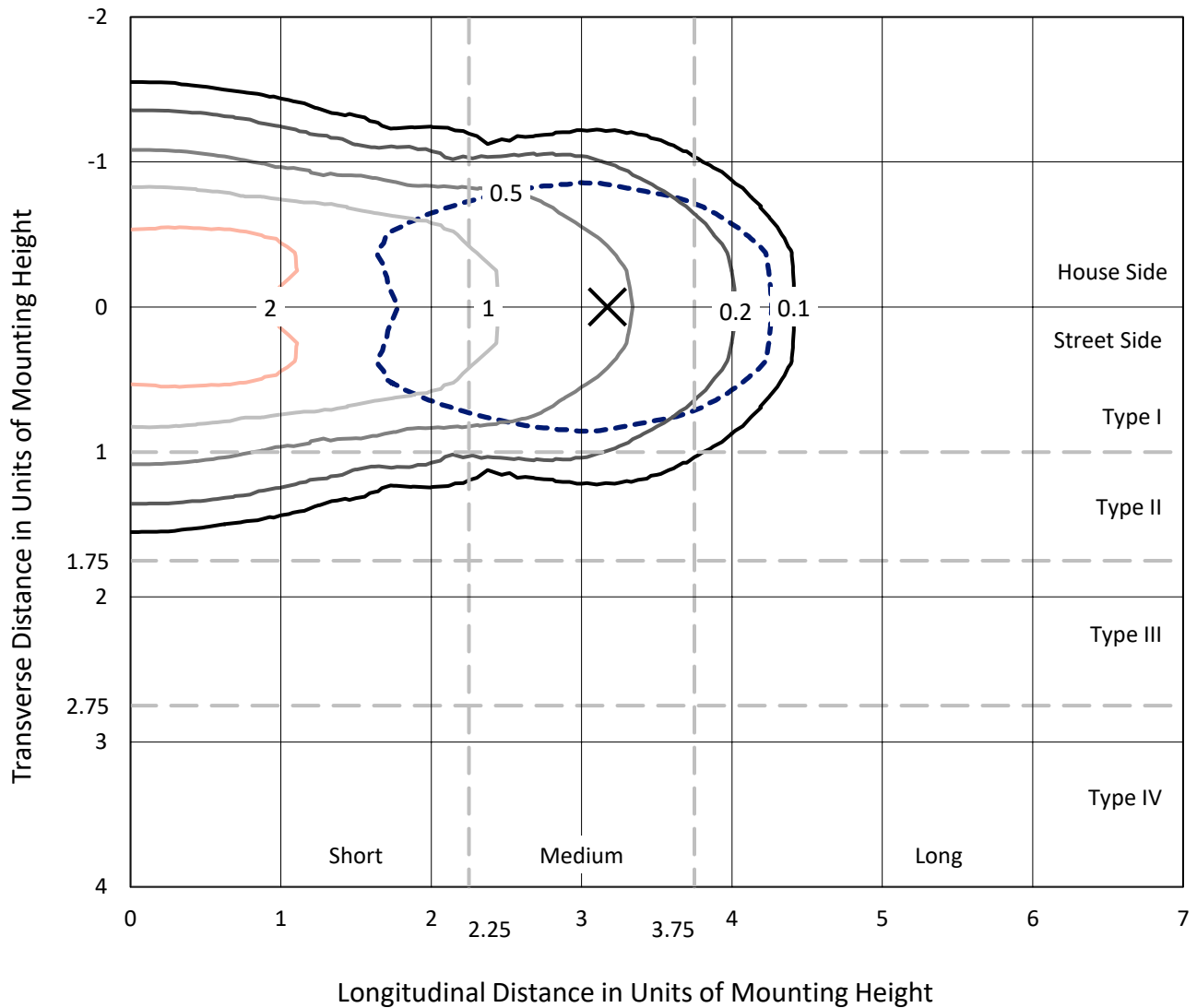
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

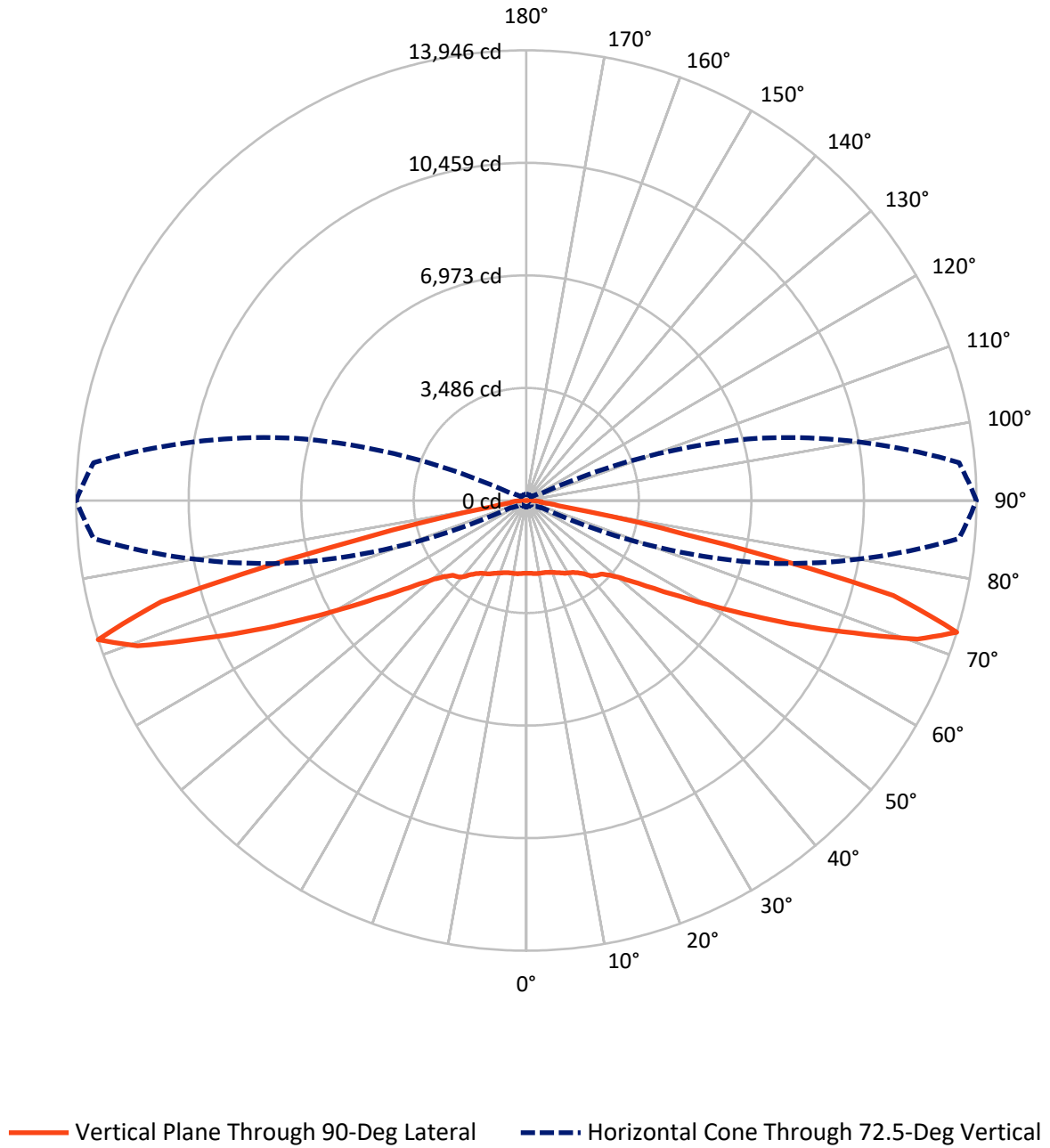
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	6031.5	0.0	6031.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6031.5	0.0	6031.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12063.0	0.0	12063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.8
10°-20°	668.3	5.5
20°-30°	1114.3	9.2
30°-40°	1532.5	12.7
40°-50°	1871.6	15.5
50°-60°	2164.7	17.9
60°-70°	2581.0	21.4
70°-80°	1801.4	14.9
80°-90°	110.7	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°	12063.0	100.0
0°-180°	12063.0	100.0

Coefficient of Utilization



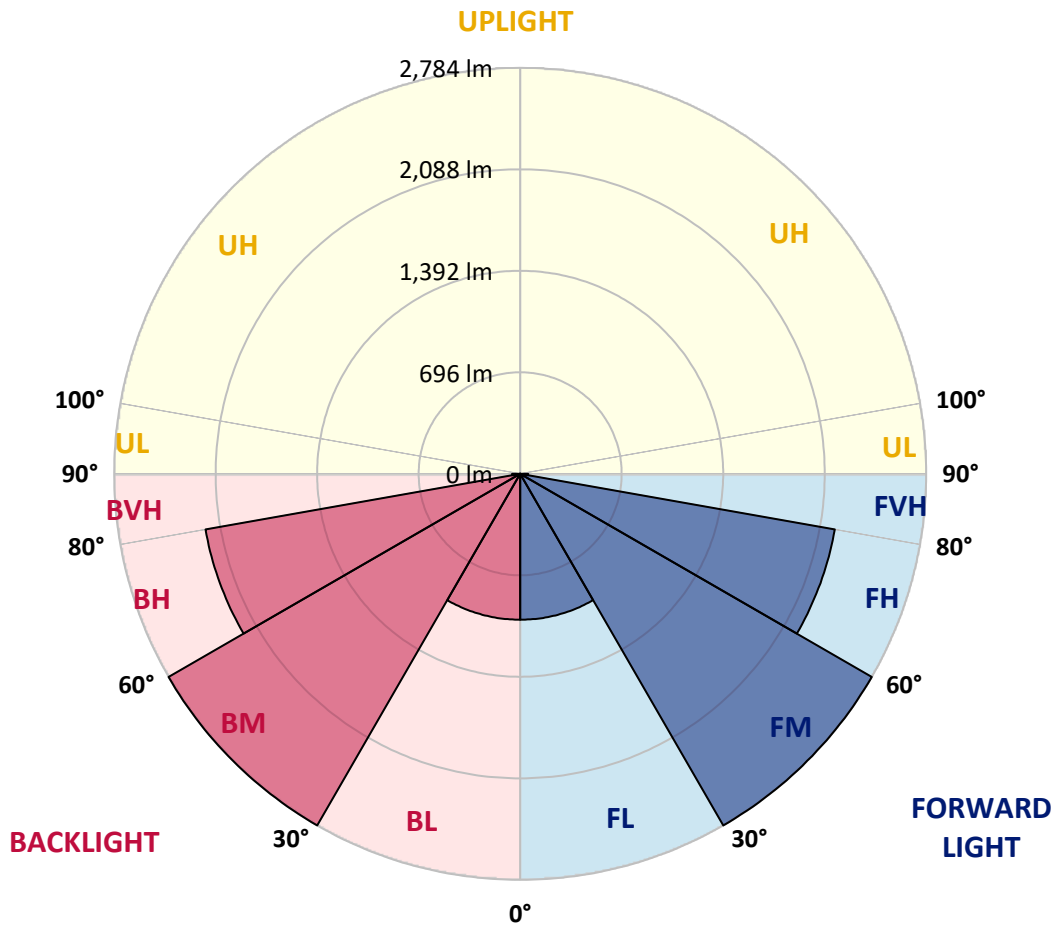
REPORT NUMBER: P882895
 CATALOG NUMBER: NAV-SB3A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.6	8.3			
FM (30°-60°)	2784.4	23.1			
FH (60°-80°)	2191.2	18.2			G2/5000
FVH (80°-90°)	55.3	0.5			G1/100
BL (0°-30°)	1000.6	8.3	B3/2500		
BM (30°-60°)	2784.4	23.1	B3/5000		
BH (60°-80°)	2191.2	18.2	B3/2500		G3/2500
BVH (80°-90°)	55.3	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°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2256.0	2258.6	2258.6	2256.7	2261.2	2257.3	2257.3	2255.4	2257.3	2255.4	2255.4
5°	2267.6	2270.8	2272.0	2271.4	2277.2	2274.0	2274.0	2271.4	2272.0	2270.1	2270.1
7.5°	2289.4	2293.8	2296.4	2299.6	2308.0	2304.1	2301.5	2293.8	2290.6	2285.5	2285.5
10°	2296.4	2301.5	2309.9	2326.5	2345.8	2346.4	2338.7	2319.5	2304.7	2293.2	2291.3
12.5°	2274.6	2281.7	2299.0	2333.0	2375.9	2393.2	2381.0	2349.0	2320.1	2299.6	2296.4
15°	2247.0	2254.7	2281.0	2332.3	2395.8	2436.2	2434.9	2392.6	2346.4	2314.4	2309.2
17.5°	2204.1	2211.8	2249.6	2321.4	2411.2	2477.8	2495.8	2452.2	2387.4	2344.5	2337.4
20°	2126.5	2133.6	2186.1	2286.8	2416.3	2522.1	2568.9	2530.4	2449.6	2391.3	2380.4
22.5°	2025.9	2036.8	2098.3	2227.2	2404.1	2568.2	2652.2	2625.9	2522.1	2441.3	2426.6
25°	1918.2	1929.7	2001.5	2154.1	2372.7	2601.6	2750.9	2734.3	2604.1	2503.5	2483.0
27.5°	1825.2	1837.4	1915.6	2081.6	2324.0	2614.4	2848.4	2856.7	2703.5	2572.1	2550.3
30°	1752.1	1763.7	1847.0	2023.3	2261.2	2601.6	2933.7	2991.4	2804.8	2631.7	2600.3
32.5°	1672.0	1686.7	1774.6	1952.1	2186.8	2570.8	3008.0	3136.9	2922.1	2695.8	2656.1
35°	1570.7	1584.2	1676.5	1854.7	2089.3	2521.4	3070.2	3298.4	3090.1	2793.3	2749.0
37.5°	1447.6	1460.4	1552.1	1732.9	1992.5	2452.2	3117.7	3480.5	3290.1	2933.7	2874.7
40°	1323.9	1336.0	1422.0	1597.0	1876.5	2363.7	3134.3	3658.7	3519.6	3126.6	3063.8
42.5°	1210.4	1221.3	1300.1	1463.0	1746.3	2250.9	3112.5	3813.9	3725.4	3261.3	3180.5
45°	1105.9	1115.5	1185.4	1337.3	1611.1	2113.7	3047.1	3980.6	3970.3	3357.4	3248.4
47.5°	986.6	996.3	1068.7	1215.5	1475.8	1952.8	2936.2	4144.7	4310.7	3575.4	3449.7
50°	841.1	849.5	923.8	1075.1	1335.4	1781.6	2782.4	4273.6	4740.3	3905.6	3747.9
52.5°	668.7	677.6	750.1	901.4	1168.7	1597.6	2579.8	4357.5	5236.5	4387.7	4193.4
55°	497.5	503.9	566.7	702.6	962.3	1388.0	2325.9	4381.3	5799.4	5046.7	4803.7
57.5°	360.9	364.8	405.2	506.5	729.6	1125.8	2017.5	4319.7	6469.3	5891.7	5585.9
60°	292.3	293.6	305.8	350.7	507.1	829.6	1645.1	4108.2	7196.3	6980.9	6595.6
62.5°	265.4	265.4	268.6	280.8	343.0	547.5	1194.4	3669.6	7975.9	8357.3	7841.3
65°	246.8	246.8	248.1	253.9	270.5	348.8	753.9	2955.5	8633.0	9969.7	9317.1
67.5°	230.2	230.8	230.2	232.1	241.7	257.7	437.2	2041.3	8986.9	11640.4	10935.8
70°	212.8	214.1	210.9	210.9	218.6	219.3	273.7	1119.4	8693.3	13040.6	12855.3
72.5°	192.3	194.3	189.1	187.8	193.6	191.0	205.8	537.2	7463.7	13458.6	13945.8
75°	174.4	176.9	165.4	162.2	162.2	160.3	167.3	275.7	4844.1	10978.8	11743.0
77.5°	158.4	163.5	144.9	134.6	132.1	126.3	136.6	168.6	2118.8	5154.4	5047.4
80°	130.8	137.8	119.2	107.1	102.6	96.2	107.7	118.0	630.2	1196.9	1146.3
82.5°	97.4	100.7	84.6	76.3	72.4	68.0	80.8	82.1	205.2	423.8	478.9
85°	62.2	63.5	51.9	44.9	43.0	41.0	51.3	44.9	78.2	311.6	452.6
87.5°	21.8	25.0	19.9	18.0	19.2	16.0	23.7	13.5	21.8	219.9	272.5
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)