

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: P882905

Luminaire Tested: **NAV-SB3A-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882905
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-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13103 lumens
Efficiency: N/A
Efficacy: 154.7 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

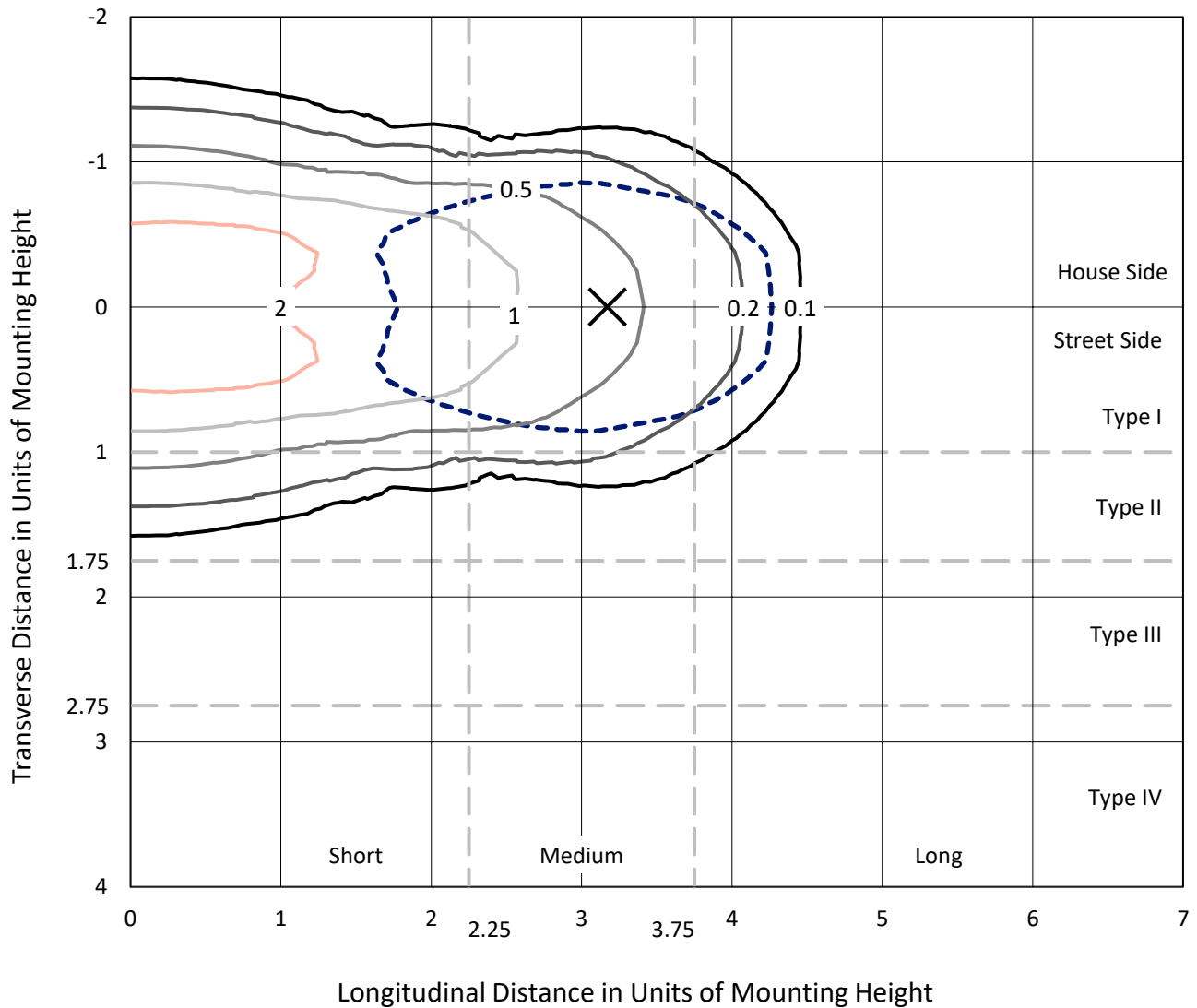
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

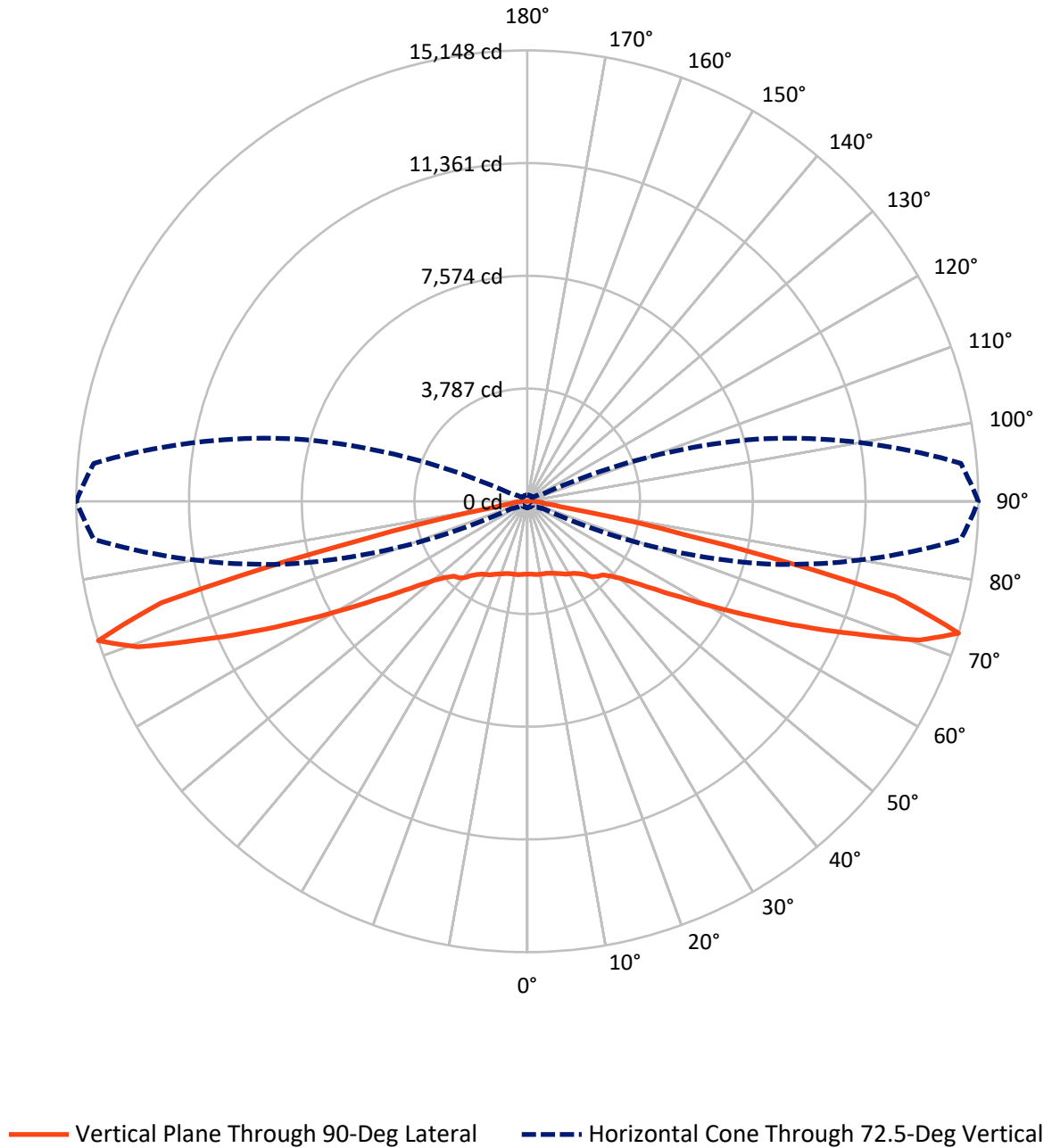
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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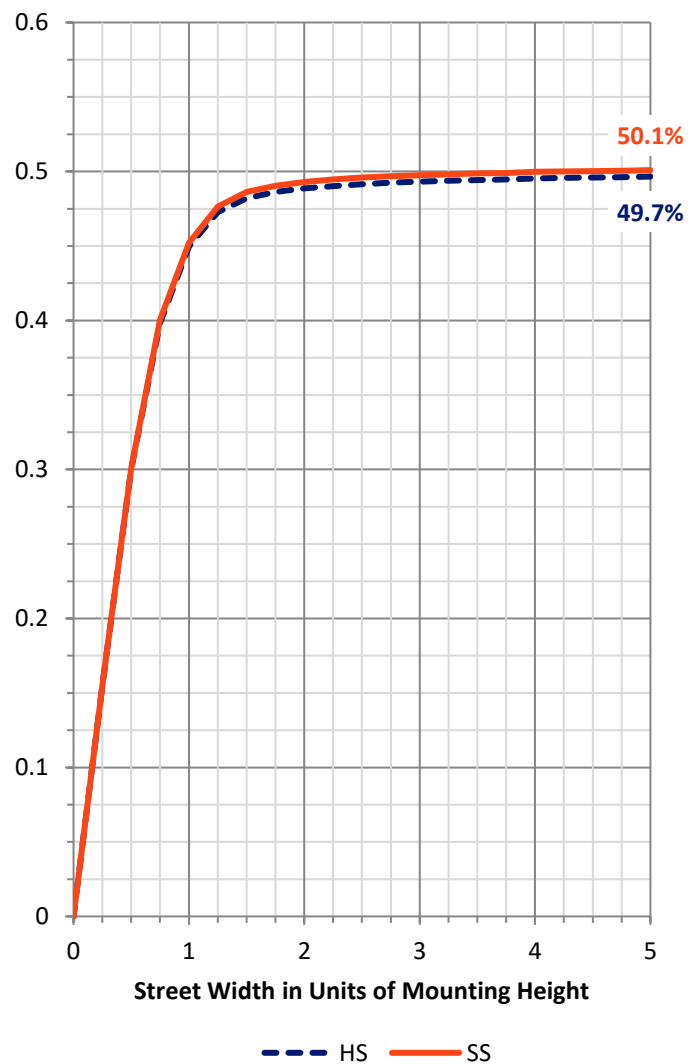
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6551.5	0.0	6551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6551.5	0.0	6551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13103.0	0.0	13103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.8
10°-20°	725.9	5.5
20°-30°	1210.4	9.2
30°-40°	1664.6	12.7
40°-50°	2032.9	15.5
50°-60°	2351.3	17.9
60°-70°	2803.6	21.4
70°-80°	1956.7	14.9
80°-90°	120.2	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°	13103.0	100.0
0°-180°	13103.0	100.0

Coefficient of Utilization



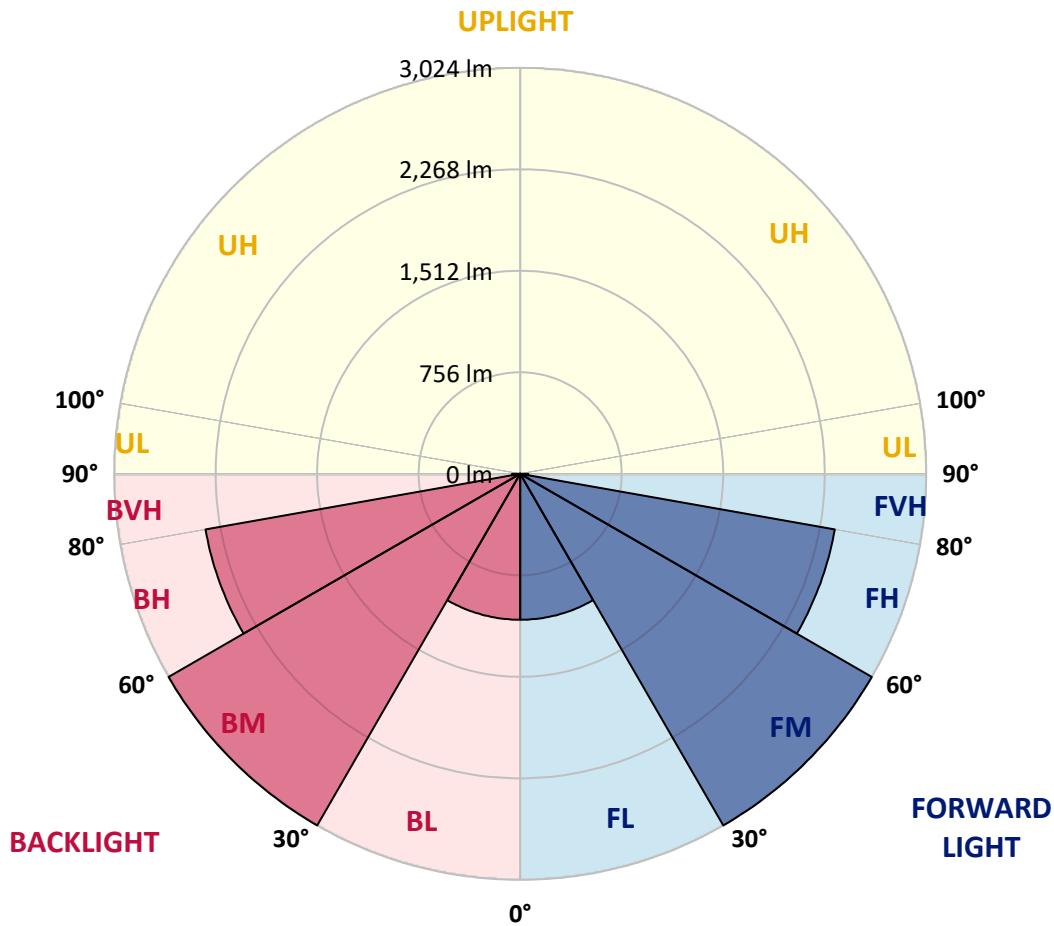
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.8	8.3			
FM (30°-60°)	3024.4	23.1			
FH (60°-80°)	2380.1	18.2			G2/5000
FVH (80°-90°)	60.1	0.5			G1/100
BL (0°-30°)	1086.8	8.3	B3/2500		
BM (30°-60°)	3024.4	23.1	B3/5000		
BH (60°-80°)	2380.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	60.1	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°	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4
2.5°	2450.5	2453.3	2453.3	2451.2	2456.1	2451.9	2451.9	2449.8	2451.9	2449.8	2449.8
5°	2463.1	2466.5	2467.9	2467.2	2473.5	2470.0	2470.0	2467.2	2467.9	2465.8	2465.8
7.5°	2486.7	2491.6	2494.4	2497.9	2506.9	2502.8	2500.0	2491.6	2488.1	2482.6	2482.6
10°	2494.4	2500.0	2509.0	2527.1	2548.0	2548.7	2540.4	2519.5	2503.4	2490.9	2488.8
12.5°	2470.7	2478.4	2497.2	2534.1	2580.7	2599.5	2586.3	2551.5	2520.2	2497.9	2494.4
15°	2440.8	2449.1	2477.7	2533.4	2602.3	2646.2	2644.8	2598.8	2548.7	2513.9	2508.3
17.5°	2394.1	2402.5	2443.6	2521.6	2619.0	2691.5	2711.0	2663.6	2593.3	2546.6	2539.0
20°	2309.9	2317.5	2374.6	2483.9	2624.6	2739.5	2790.4	2748.6	2660.8	2597.5	2585.6
22.5°	2200.5	2212.4	2279.2	2419.2	2611.4	2789.7	2880.9	2852.3	2739.5	2651.8	2635.8
25°	2083.5	2096.1	2174.1	2339.8	2577.3	2825.9	2988.1	2970.0	2828.7	2719.3	2697.0
27.5°	1982.6	1995.8	2080.8	2261.1	2524.3	2839.8	3094.0	3103.0	2936.6	2793.8	2770.2
30°	1903.2	1915.7	2006.2	2197.7	2456.1	2825.9	3186.6	3249.3	3046.6	2858.6	2824.5
32.5°	1816.1	1832.1	1927.5	2120.4	2375.3	2792.4	3267.4	3407.3	3174.1	2928.2	2885.1
35°	1706.1	1720.7	1821.0	2014.6	2269.5	2738.8	3334.9	3582.8	3356.5	3034.1	2986.0
37.5°	1572.4	1586.3	1685.9	1882.3	2164.3	2663.6	3386.4	3780.6	3573.8	3186.6	3122.5
40°	1438.0	1451.2	1544.5	1734.7	2038.3	2567.5	3404.5	3974.2	3823.1	3396.2	3327.9
42.5°	1314.7	1326.6	1412.2	1589.1	1896.9	2445.0	3380.9	4142.7	4046.6	3542.4	3454.7
45°	1201.2	1211.7	1287.6	1452.6	1750.0	2295.9	3309.8	4323.8	4312.6	3646.9	3528.5
47.5°	1071.7	1082.2	1160.8	1320.3	1603.0	2121.1	3189.4	4502.0	4682.4	3883.7	3747.2
50°	913.6	922.7	1003.5	1167.8	1450.5	1935.2	3022.2	4642.0	5149.0	4242.3	4071.0
52.5°	726.3	736.1	814.8	979.1	1269.5	1735.4	2802.2	4733.2	5687.9	4766.0	4555.0
55°	540.4	547.3	615.6	763.2	1045.3	1507.6	2526.4	4759.0	6299.4	5481.8	5217.9
57.5°	392.1	396.2	440.1	550.1	792.5	1222.8	2191.5	4692.1	7027.1	6399.6	6067.5
60°	317.5	318.9	332.2	380.9	550.8	901.1	1786.9	4462.3	7816.7	7582.8	7164.2
62.5°	288.3	288.3	291.8	305.0	372.6	594.7	1297.3	3986.0	8663.5	9077.9	8517.3
65°	268.1	268.1	269.5	275.8	293.9	378.8	818.9	3210.3	9377.3	10829.2	10120.3
67.5°	250.0	250.7	250.0	252.1	262.5	279.9	474.9	2217.2	9761.7	12644.0	11878.7
70°	231.2	232.6	229.1	229.1	237.5	238.2	297.3	1215.9	9442.8	14164.8	13963.6
72.5°	208.9	211.0	205.4	204.0	210.3	207.5	223.5	583.6	8107.1	14618.9	15148.1
75°	189.4	192.2	179.7	176.2	176.2	174.1	181.8	299.4	5261.8	11925.3	12755.4
77.5°	172.0	177.6	157.4	146.2	143.5	137.2	148.3	183.1	2301.5	5598.8	5482.5
80°	142.1	149.7	129.5	116.3	111.4	104.5	117.0	128.1	684.5	1300.1	1245.1
82.5°	105.8	109.3	91.9	82.9	78.7	73.8	87.7	89.1	222.8	460.3	520.2
85°	67.5	68.9	56.4	48.7	46.7	44.6	55.7	48.7	85.0	338.4	491.6
87.5°	23.7	27.2	21.6	19.5	20.9	17.4	25.8	14.6	23.7	238.9	296.0
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)