

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: P883565

Luminaire Tested: **NAV-SB4A-722-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883565  
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-SB4A-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

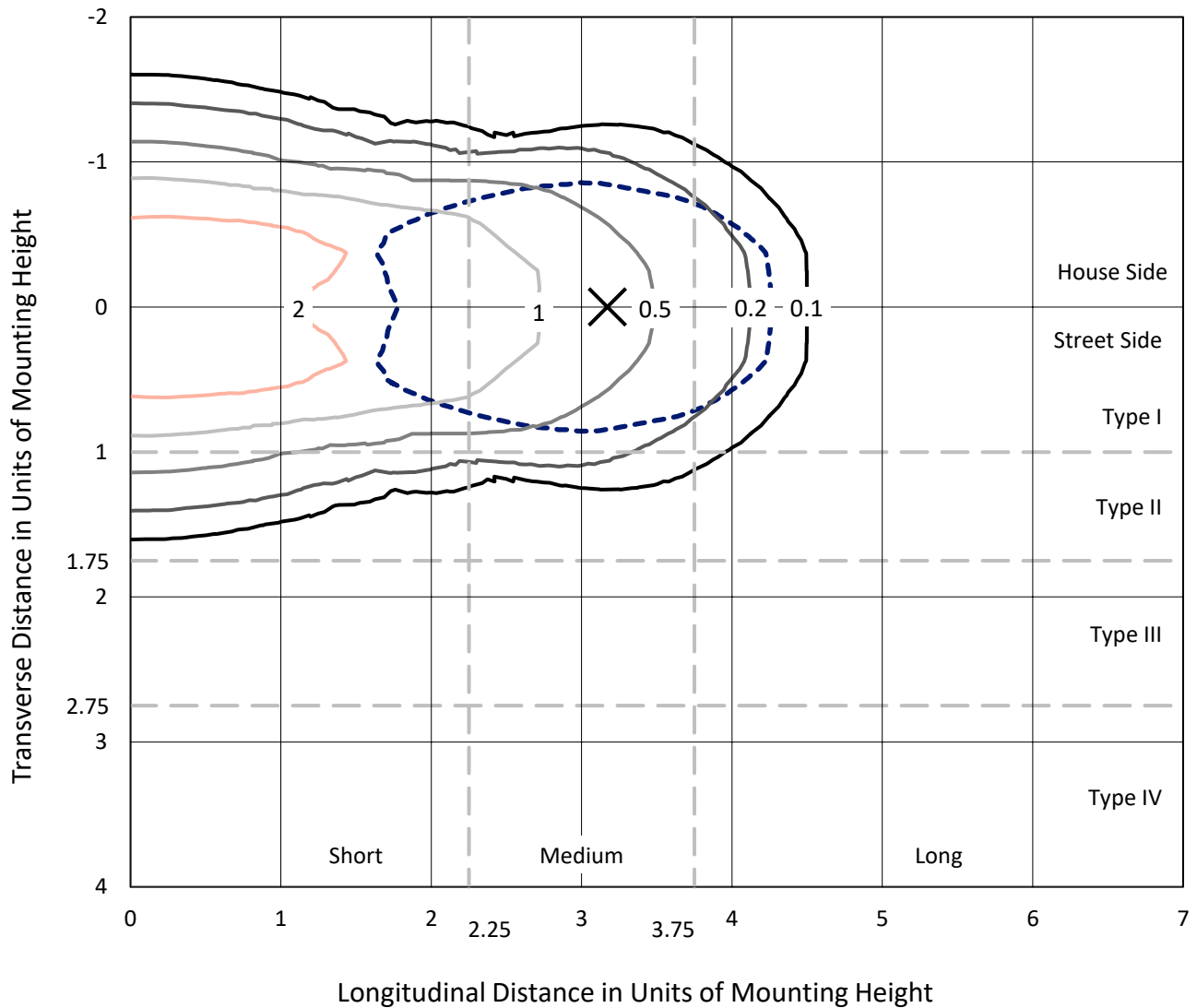
Lumens per Lamp: N/A  
Luminaire Lumens: 14331 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 114  
Input Voltage (V): 120.0  
Input Current (Ain): 0.952  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.206  
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

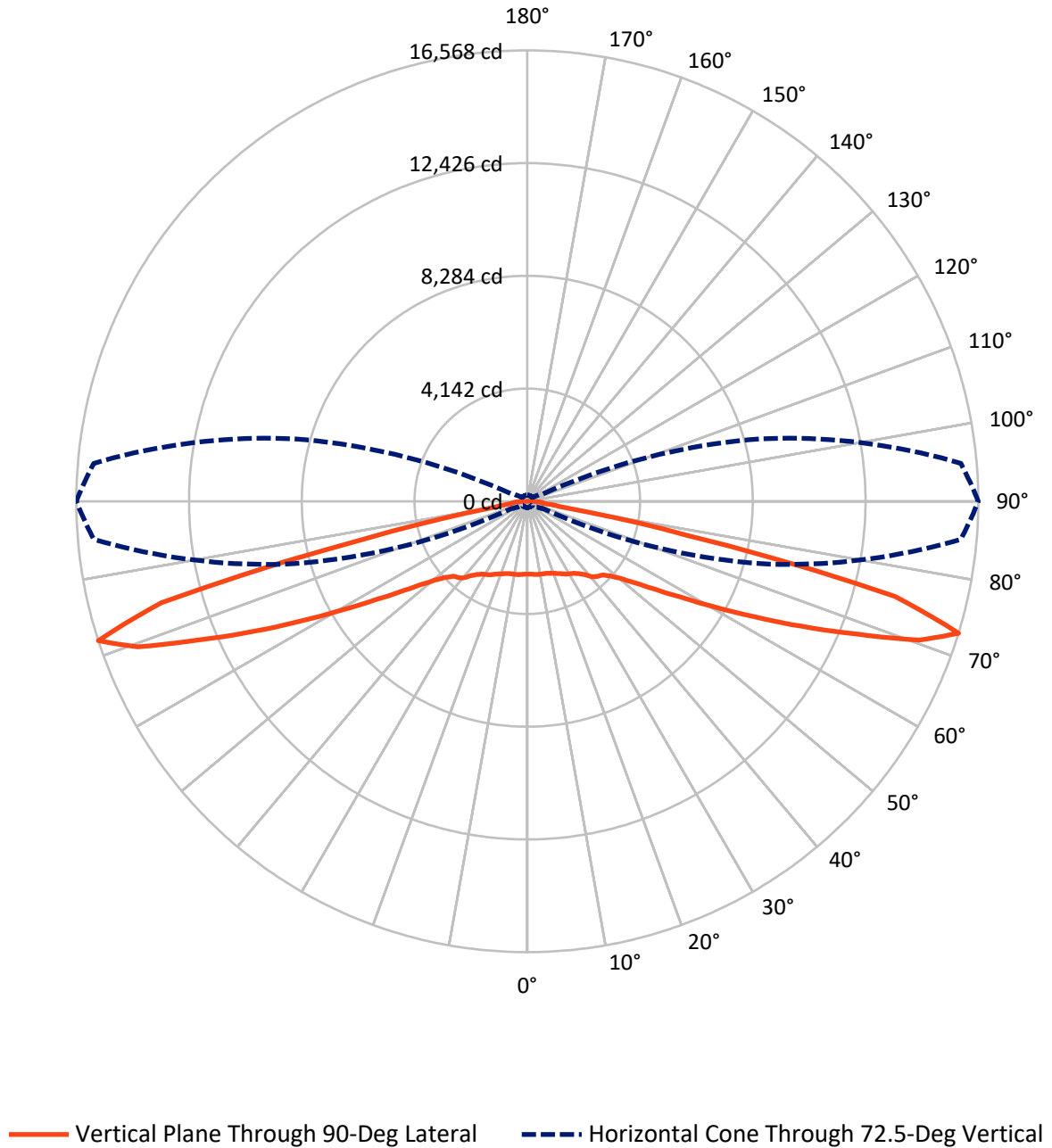
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7165.5	0.0	7165.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7165.5	0.0	7165.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14331.0	0.0	14331.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.7	1.8
10°-20°	793.9	5.5
20°-30°	1323.8	9.2
30°-40°	1820.6	12.7
40°-50°	2223.5	15.5
50°-60°	2571.7	17.9
60°-70°	3066.3	21.4
70°-80°	2140.1	14.9
80°-90°	131.4	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°	14331.0	100.0
0°-180°	14331.0	100.0



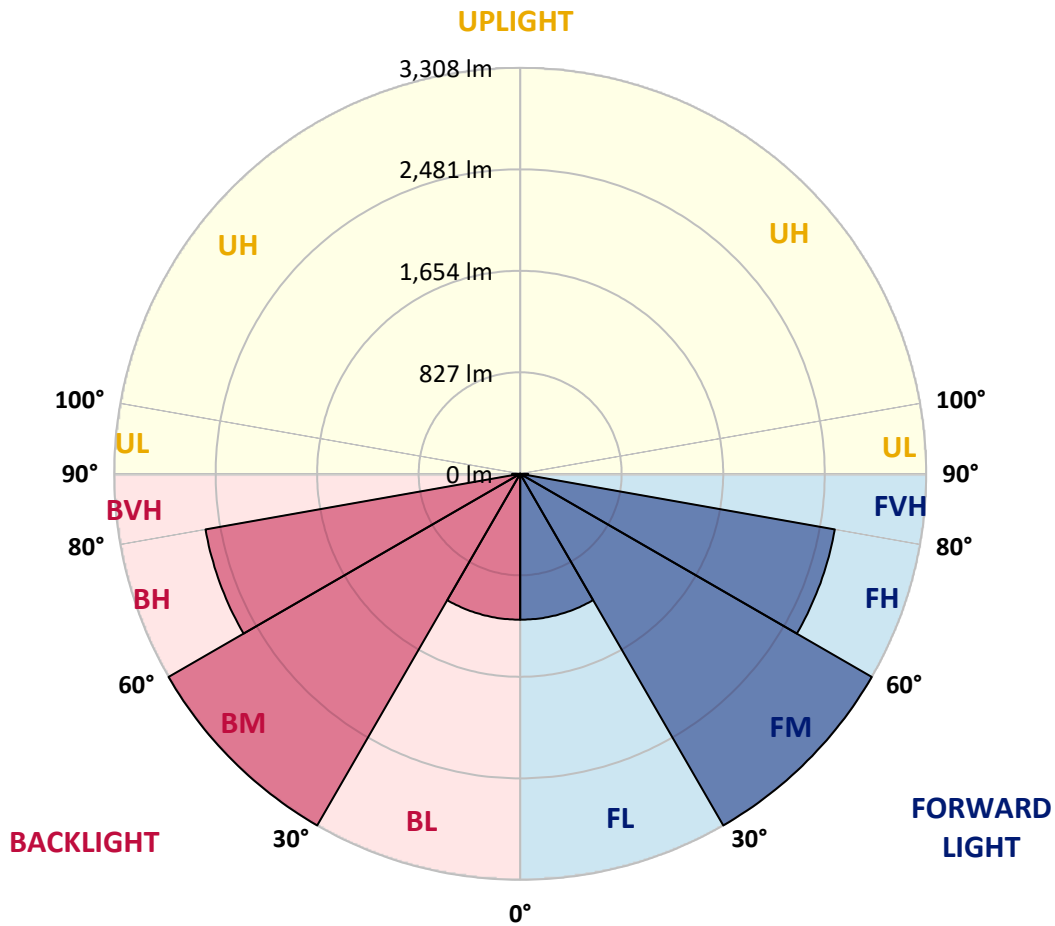
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.7	8.3			
FM (30°-60°)	3307.9	23.1			
FH (60°-80°)	2603.2	18.2			G2/5000
FVH (80°-90°)	65.7	0.5			G1/100
BL (0°-30°)	1188.7	8.3	B3/2500		
BM (30°-60°)	3307.9	23.1	B3/5000		
BH (60°-80°)	2603.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	65.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9	2677.9
2.5°	2680.2	2683.2	2683.2	2680.9	2686.3	2681.7	2681.7	2679.4	2681.7	2679.4	2679.4
5°	2693.9	2697.7	2699.2	2698.5	2705.3	2701.5	2701.5	2698.5	2699.2	2696.9	2696.9
7.5°	2719.8	2725.1	2728.2	2732.0	2741.9	2737.3	2734.3	2725.1	2721.3	2715.2	2715.2
10°	2728.2	2734.3	2744.2	2764.0	2786.8	2787.6	2778.4	2755.6	2738.1	2724.4	2722.1
12.5°	2702.3	2710.6	2731.2	2771.6	2822.6	2843.2	2828.7	2790.6	2756.3	2732.0	2728.2
15°	2669.5	2678.7	2709.9	2770.8	2846.2	2894.2	2892.7	2842.4	2787.6	2749.5	2743.4
17.5°	2618.5	2627.6	2672.6	2757.9	2864.5	2943.7	2965.0	2913.2	2836.3	2785.3	2776.9
20°	2526.3	2534.7	2597.2	2716.7	2870.6	2996.3	3051.9	3006.2	2910.2	2840.9	2827.9
22.5°	2406.8	2419.7	2492.8	2645.9	2856.1	3051.1	3150.9	3119.6	2996.3	2900.3	2882.8
25°	2278.8	2292.5	2377.8	2559.1	2818.8	3090.7	3268.2	3248.4	3093.7	2974.2	2949.8
27.5°	2168.4	2182.8	2275.8	2473.0	2760.9	3105.9	3383.9	3393.8	3211.8	3055.7	3029.8
30°	2081.5	2095.3	2194.3	2403.7	2686.3	3090.7	3485.2	3553.8	3332.1	3126.5	3089.2
32.5°	1986.3	2003.9	2108.2	2319.2	2597.9	3054.1	3573.6	3726.7	3471.5	3202.7	3155.4
35°	1866.0	1882.0	1991.7	2203.4	2482.2	2995.5	3647.5	3918.6	3671.1	3318.4	3265.9
37.5°	1719.8	1735.0	1843.9	2058.7	2367.2	2913.2	3703.8	4134.9	3908.7	3485.2	3415.2
40°	1572.8	1587.2	1689.3	1897.2	2229.3	2808.1	3723.6	4346.6	4181.4	3714.5	3639.8
42.5°	1438.0	1450.9	1544.6	1738.0	2074.7	2674.1	3697.7	4530.9	4425.8	3874.4	3778.5
45°	1313.8	1325.2	1408.3	1588.8	1914.0	2511.1	3620.0	4729.0	4716.8	3988.7	3859.2
47.5°	1172.2	1183.6	1269.6	1444.1	1753.3	2319.9	3488.3	4924.0	5121.2	4247.6	4098.3
50°	999.3	1009.2	1097.5	1277.3	1586.5	2116.6	3305.5	5077.0	5631.5	4639.9	4452.5
52.5°	794.4	805.0	891.1	1070.9	1388.5	1898.0	3064.8	5176.8	6221.0	5212.6	4981.8
55°	591.0	598.6	673.3	834.7	1143.2	1648.9	2763.2	5205.0	6889.7	5995.6	5706.9
57.5°	428.8	433.4	481.4	601.7	866.7	1337.4	2396.9	5131.9	7685.6	6999.4	6636.1
60°	347.3	348.8	363.3	416.6	602.5	985.6	1954.3	4880.5	8549.3	8293.4	7835.7
62.5°	315.3	315.3	319.1	333.6	407.5	650.4	1418.9	4359.6	9475.5	9928.6	9315.5
65°	293.2	293.2	294.8	301.6	321.4	414.3	895.7	3511.1	10256.1	11844.1	11068.8
67.5°	273.4	274.2	273.4	275.7	287.1	306.2	519.4	2425.0	10676.6	13829.0	12991.9
70°	252.9	254.4	250.6	250.6	259.7	260.5	325.2	1329.8	10327.7	15492.4	15272.2
72.5°	228.5	230.8	224.7	223.2	230.0	227.0	244.5	638.2	8866.9	15988.9	16567.8
75°	207.2	210.2	196.5	192.7	192.7	190.4	198.8	327.5	5754.9	13043.0	13950.8
77.5°	188.1	194.2	172.1	159.9	156.9	150.0	162.2	200.3	2517.2	6123.5	5996.3
80°	155.4	163.8	141.7	127.2	121.9	114.2	128.0	140.1	748.7	1422.0	1361.8
82.5°	115.8	119.6	100.5	90.6	86.1	80.7	96.0	97.5	243.7	503.4	568.9
85°	73.9	75.4	61.7	53.3	51.0	48.7	60.9	53.3	92.9	370.2	537.7
87.5°	25.9	29.7	23.6	21.3	22.8	19.0	28.2	16.0	25.9	261.2	323.7
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)