

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: P965527

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
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: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15059.3 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

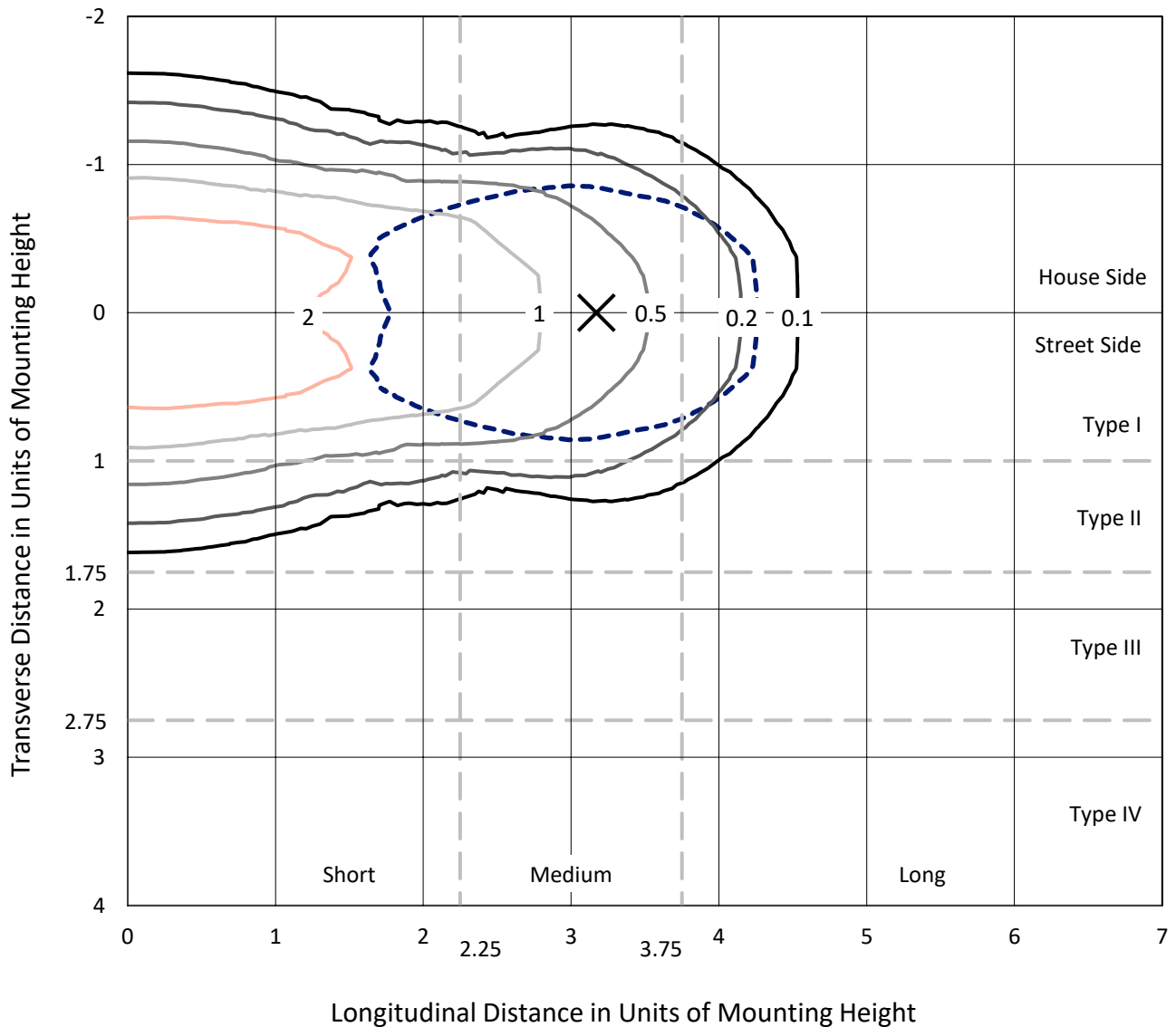
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

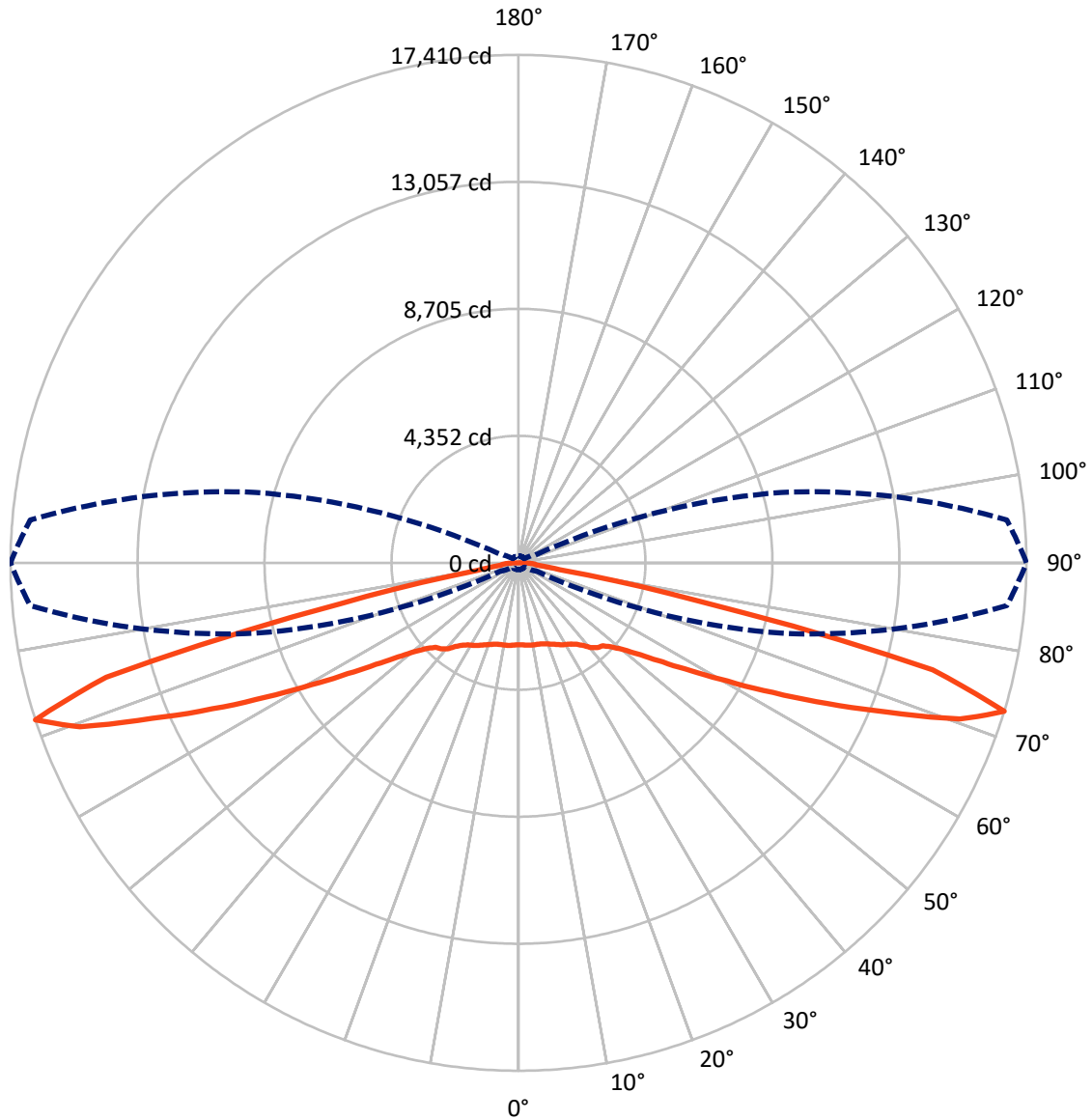
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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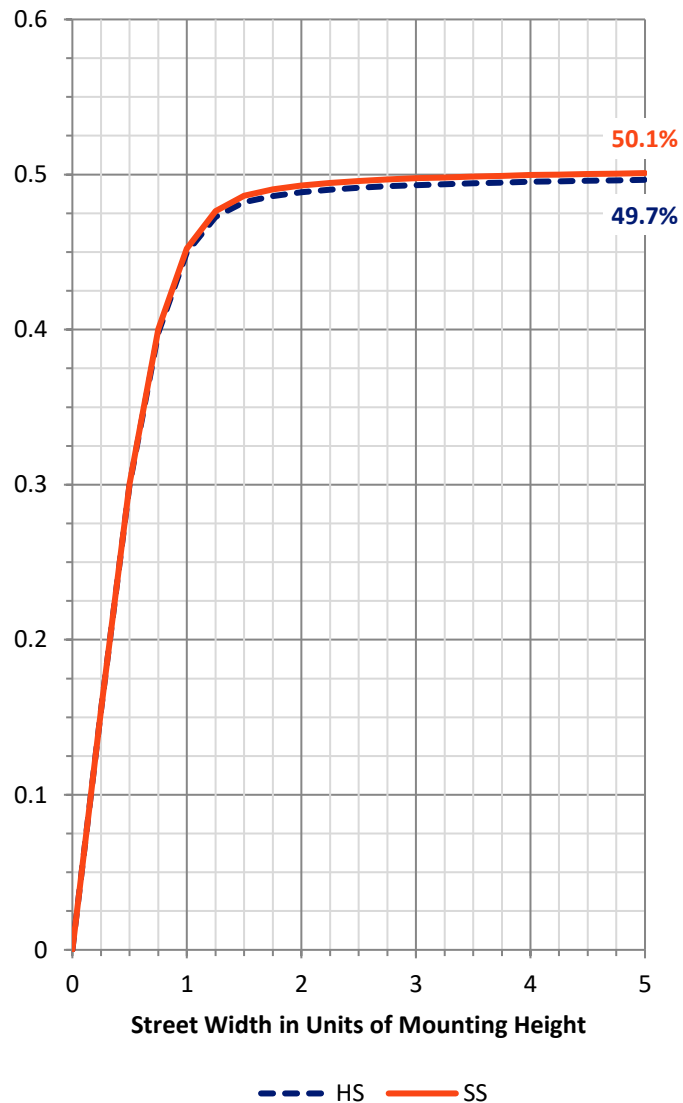
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7529.6	0.0	7529.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7529.6	0.0	7529.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15059.3	0.0	15059.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	1.8
10°-20°	834.3	5.5
20°-30°	1391.1	9.2
30°-40°	1913.1	12.7
40°-50°	2336.5	15.5
50°-60°	2702.4	17.9
60°-70°	3222.2	21.4
70°-80°	2248.8	14.9
80°-90°	138.1	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°	15059.3	100.0
0°-180°	15059.3	100.0

**Coefficient of Utilization**

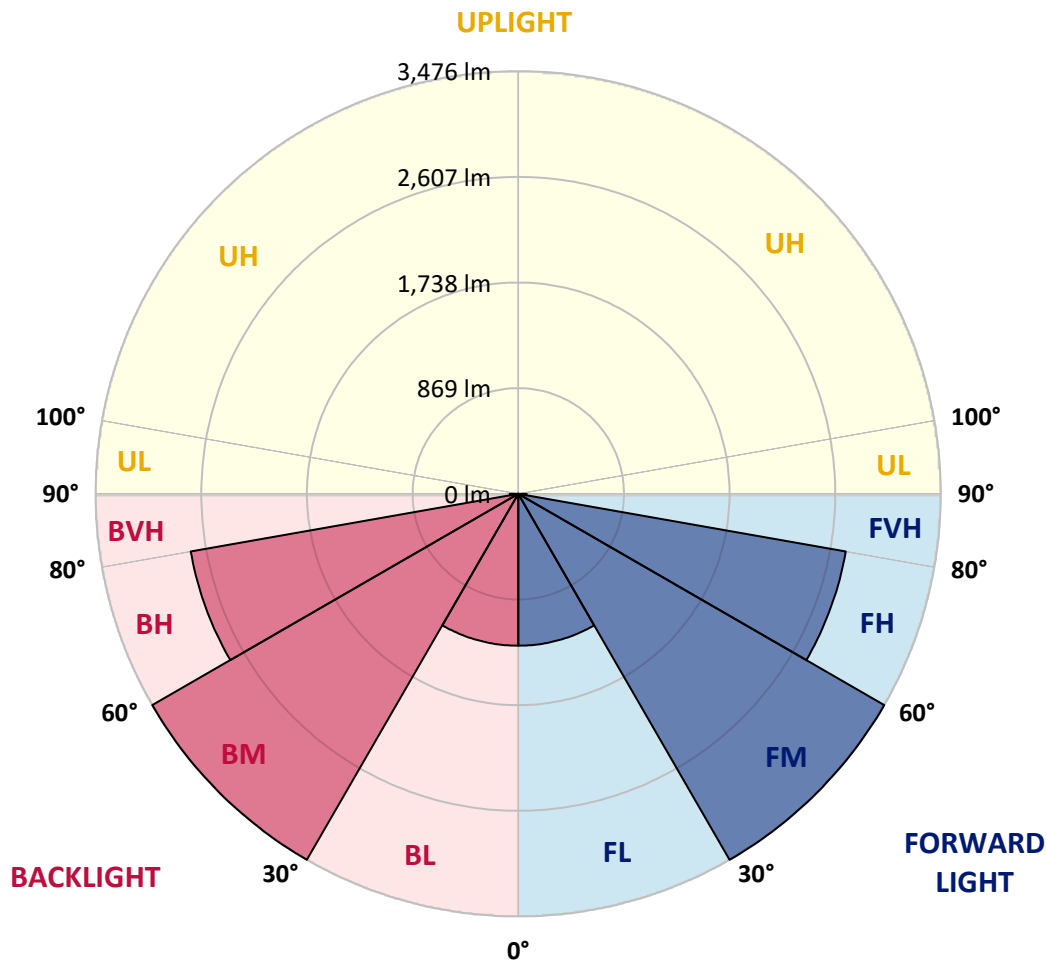


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.1	8.3			
FM (30°-60°)	3476.0	23.1			
FH (60°-80°)	2735.5	18.2			G2/5000
FVH (80°-90°)	69.1	0.5			G1/100
BL (0°-30°)	1249.1	8.3	B3/2500		
BM (30°-60°)	3476.0	23.1	B3/5000		
BH (60°-80°)	2735.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	69.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0	2814.0
2.5°	2816.4	2819.6	2819.6	2817.2	2822.7	2818.0	2818.0	2815.6	2818.0	2815.6	2815.6
5°	2830.8	2834.8	2836.4	2835.6	2842.8	2838.8	2838.8	2835.6	2836.4	2834.0	2834.0
7.5°	2858.0	2863.6	2866.8	2870.8	2881.2	2876.5	2873.2	2863.6	2859.6	2853.2	2853.2
10°	2866.8	2873.2	2883.6	2904.4	2928.4	2929.2	2919.6	2895.6	2877.2	2862.8	2860.4
12.5°	2839.6	2848.4	2870.0	2912.4	2966.0	2987.7	2972.5	2932.4	2896.4	2870.8	2866.8
15°	2805.2	2814.8	2847.6	2911.6	2990.8	3041.3	3039.6	2986.8	2929.2	2889.3	2882.8
17.5°	2751.6	2761.1	2808.4	2898.0	3010.1	3093.3	3115.7	3061.3	2980.5	2926.9	2918.1
20°	2654.7	2663.6	2729.2	2854.8	3016.5	3148.5	3206.9	3158.9	3058.1	2985.3	2971.7
22.5°	2529.1	2542.7	2619.5	2780.4	3001.3	3206.2	3311.0	3278.2	3148.5	3047.7	3029.3
25°	2394.6	2409.1	2498.6	2689.1	2962.0	3247.8	3434.3	3413.5	3251.0	3125.3	3099.7
27.5°	2278.6	2293.7	2391.4	2598.7	2901.3	3263.8	3555.9	3566.3	3375.0	3210.9	3183.8
30°	2187.4	2201.7	2305.7	2525.9	2822.7	3247.8	3662.3	3734.4	3501.5	3285.4	3246.2
32.5°	2087.3	2105.7	2215.3	2437.0	2730.0	3209.4	3755.2	3916.0	3648.0	3365.4	3315.8
35°	1960.8	1977.6	2092.8	2315.4	2608.3	3147.8	3832.8	4117.7	3857.6	3487.0	3431.8
37.5°	1807.2	1823.2	1937.7	2163.4	2487.5	3061.3	3892.0	4345.1	4107.4	3662.3	3588.7
40°	1652.7	1667.9	1775.2	1993.6	2342.6	2950.9	3912.8	4567.5	4393.9	3903.2	3824.8
42.5°	1511.1	1524.7	1623.1	1826.3	2180.1	2810.0	3885.7	4761.2	4650.7	4071.3	3970.4
45°	1380.6	1392.6	1479.8	1669.5	2011.3	2638.8	3804.0	4969.3	4956.5	4191.3	4055.3
47.5°	1231.7	1243.7	1334.1	1517.4	1842.3	2437.9	3665.5	5174.2	5381.5	4463.5	4306.6
50°	1050.0	1060.5	1153.3	1342.1	1667.1	2224.1	3473.4	5335.0	5917.7	4875.6	4678.8
52.5°	834.8	845.9	936.4	1125.2	1459.0	1994.4	3220.5	5439.9	6537.1	5477.5	5235.0
55°	621.0	629.0	707.5	877.2	1201.3	1732.8	2903.6	5469.5	7239.9	6300.3	5997.0
57.5°	450.6	455.4	505.8	632.2	910.8	1405.4	2518.6	5392.7	8076.2	7355.1	6973.4
60°	365.0	366.5	381.8	437.8	633.0	1035.7	2053.7	5128.6	8983.8	8714.9	8233.9
62.5°	331.4	331.4	335.4	350.5	428.1	683.5	1491.1	4581.1	9957.1	10433.2	9789.0
65°	308.1	308.1	309.8	316.9	337.7	435.4	941.2	3689.6	10777.4	12446.1	11631.3
67.5°	287.3	288.1	287.3	289.8	301.8	321.7	545.8	2548.3	11219.1	14531.7	13652.2
70°	265.7	267.3	263.3	263.3	273.0	273.7	341.7	1397.4	10852.6	16279.7	16048.4
72.5°	240.1	242.5	236.1	234.5	241.7	238.5	256.9	670.7	9317.6	16801.5	17409.7
75°	217.7	220.9	206.5	202.4	202.4	200.1	208.9	344.2	6047.4	13705.8	14659.8
77.5°	197.7	204.1	180.9	168.1	164.8	157.6	170.5	210.5	2645.1	6434.7	6301.1
80°	163.3	172.1	148.8	133.7	128.0	120.0	134.5	147.3	786.7	1494.2	1431.0
82.5°	121.7	125.7	105.7	95.2	90.4	84.9	100.9	102.4	256.1	529.0	597.9
85°	77.6	79.2	64.8	56.1	53.6	51.2	64.1	56.1	97.7	389.0	565.1
87.5°	27.2	31.3	24.8	22.4	24.0	20.0	29.6	16.8	27.2	274.5	340.1
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)