

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: P969732

Luminaire Tested: **NAV-SB6A-722-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23718.5 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4

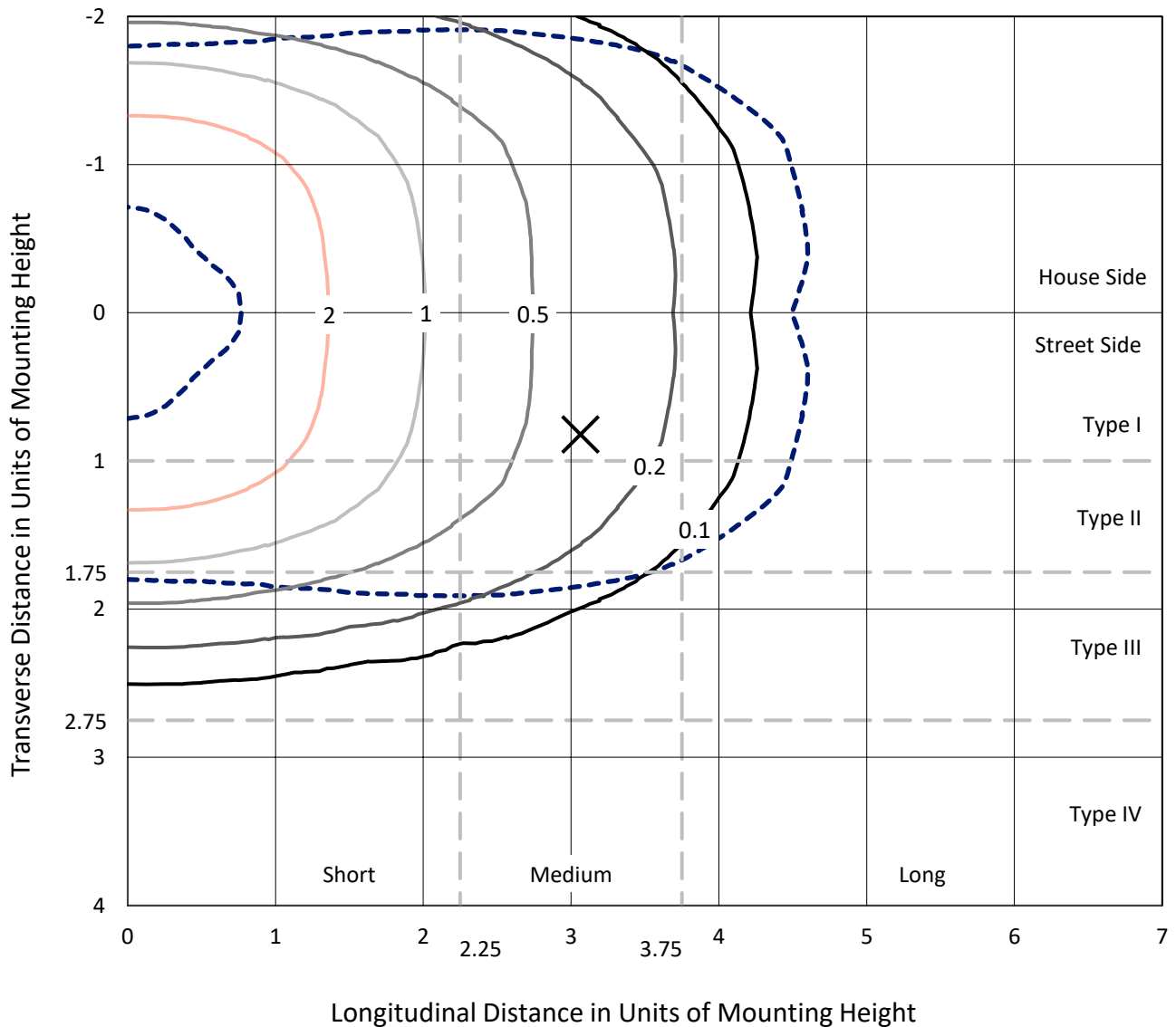
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

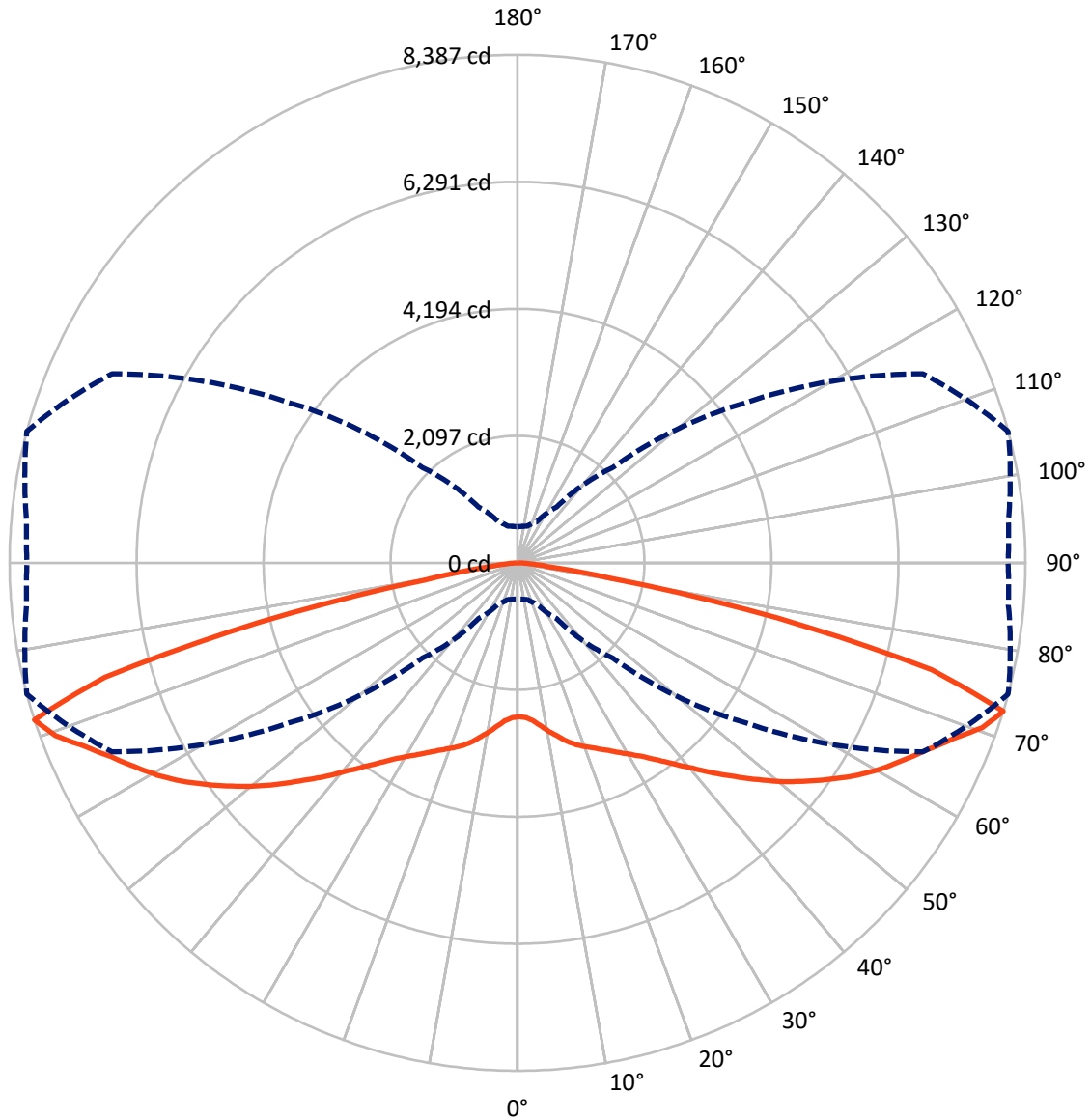
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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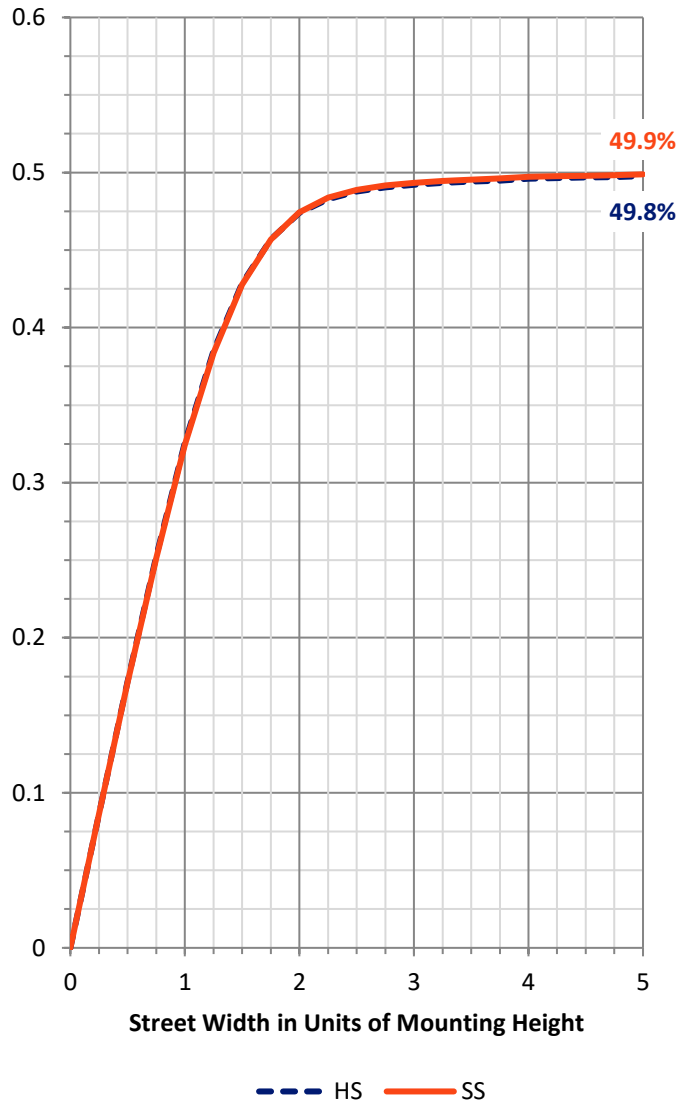
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11859.2	0.0	11859.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11859.2	0.0	11859.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23718.5	0.0	23718.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.9	1.0
10°-20°	820.9	3.5
20°-30°	1586.1	6.7
30°-40°	2678.3	11.3
40°-50°	4247.5	17.9
50°-60°	5686.9	24.0
60°-70°	5412.1	22.8
70°-80°	2824.1	11.9
80°-90°	213.8	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°	23718.5	100.0
0°-180°	23718.5	100.0

**Coefficient of Utilization**

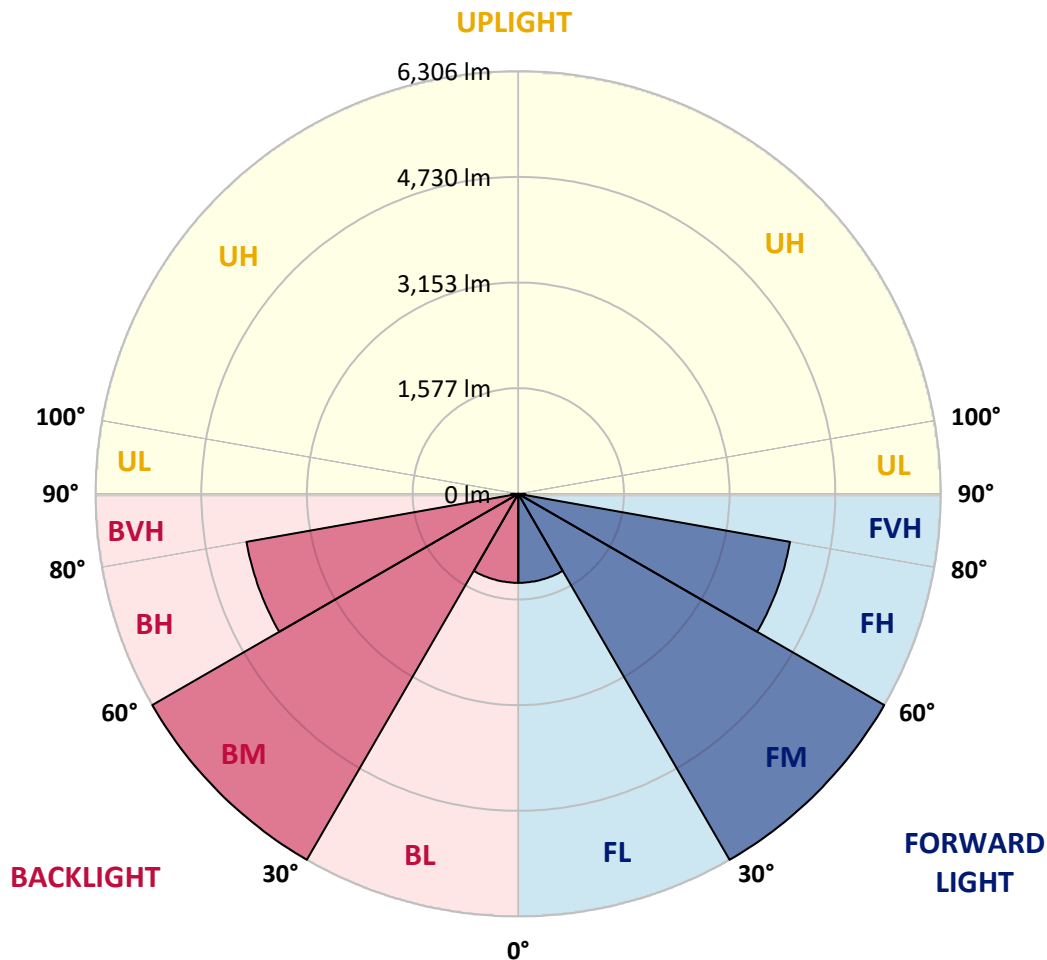


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.9	5.6			
FM (30°-60°)	6306.3	26.6			
FH (60°-80°)	4118.1	17.4			G2/5000
FVH (80°-90°)	106.9	0.5			G2/225
BL (0°-30°)	1327.9	5.6	B3/2500		
BM (30°-60°)	6306.3	26.6	B4/8500		
BH (60°-80°)	4118.1	17.4	B4/5000		G4/5000
BVH (80°-90°)	106.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2540.7	2538.2	2540.7	2543.1	2541.9	2541.9	2547.9	2551.5	2558.8	2557.6	2556.5
5°	2523.8	2522.5	2532.2	2543.1	2551.5	2566.1	2584.2	2597.6	2614.6	2618.2	2618.2
7.5°	2515.2	2511.7	2528.6	2547.9	2574.6	2610.9	2646.0	2682.3	2711.4	2721.1	2723.5
10°	2521.3	2522.5	2545.5	2581.9	2624.2	2675.1	2724.8	2786.5	2827.7	2837.4	2847.0
12.5°	2549.2	2546.7	2585.5	2643.6	2701.7	2766.0	2824.1	2891.8	2936.6	2959.7	2969.3
15°	2600.0	2595.2	2649.6	2735.6	2820.4	2895.5	2942.8	3006.9	3059.0	3088.0	3099.0
17.5°	2660.6	2663.0	2734.4	2845.8	2957.2	3042.0	3086.8	3119.5	3159.5	3184.9	3197.1
20°	2767.1	2772.0	2851.9	2983.9	3111.1	3207.9	3244.2	3232.1	3243.1	3262.5	3276.9
22.5°	2910.1	2912.4	3002.0	3145.0	3278.2	3384.8	3408.9	3359.3	3329.0	3342.3	3352.1
25°	3075.9	3091.7	3181.3	3327.9	3464.7	3566.4	3577.2	3502.2	3427.1	3430.8	3436.8
27.5°	3278.2	3292.7	3383.5	3528.9	3668.1	3756.5	3755.3	3654.8	3544.6	3516.8	3525.2
30°	3497.4	3513.1	3606.4	3756.5	3886.1	3963.6	3946.7	3826.7	3669.3	3617.2	3623.3
32.5°	3757.8	3767.4	3861.9	4012.1	4131.9	4193.7	4158.5	4010.8	3814.6	3755.3	3769.8
35°	4072.6	4087.1	4157.4	4299.1	4404.4	4455.3	4395.9	4221.6	4001.2	3934.6	3944.2
37.5°	4432.3	4422.6	4502.5	4628.4	4715.6	4747.1	4666.0	4458.9	4214.3	4135.6	4150.1
40°	4807.7	4802.8	4890.0	5011.1	5058.4	5077.7	4957.8	4731.4	4460.1	4375.3	4403.2
42.5°	5148.0	5144.4	5261.8	5396.2	5453.1	5431.4	5280.0	5020.8	4744.7	4647.9	4672.1
45°	5420.4	5415.6	5559.7	5748.6	5860.0	5823.7	5620.3	5340.5	5033.0	4932.4	4955.4
47.5°	5629.9	5632.4	5787.4	6021.1	6216.0	6229.3	5967.8	5666.3	5350.2	5236.3	5270.2
50°	5781.3	5788.6	5954.5	6213.7	6480.0	6597.5	6322.6	6000.5	5678.4	5550.0	5588.7
52.5°	5818.8	5832.1	6032.0	6335.9	6649.6	6873.6	6683.5	6321.4	5989.6	5867.3	5898.8
55°	5619.0	5645.7	5898.8	6326.3	6753.7	7055.3	7000.7	6647.1	6303.2	6177.3	6212.4
57.5°	5160.1	5197.6	5493.1	6051.4	6730.8	7180.0	7246.6	6959.6	6616.9	6495.8	6523.6
60°	4517.1	4561.9	4845.2	5454.3	6406.1	7226.0	7419.8	7263.6	6905.1	6787.7	6813.1
62.5°	3547.0	3605.1	3944.2	4658.7	5720.7	7011.7	7567.6	7538.5	7164.2	7017.8	7034.7
65°	2275.5	2337.2	2694.5	3538.5	4806.4	6355.3	7613.6	7806.1	7437.9	7233.3	7258.7
67.5°	1372.1	1399.9	1576.8	2144.7	3513.1	5366.0	7223.6	8102.8	7757.6	7503.3	7522.7
70°	878.0	893.7	999.1	1259.4	1986.0	3915.2	6257.2	8158.5	8145.2	7780.7	7778.2
72.5°	595.8	600.6	628.5	746.0	1123.8	2224.6	4615.2	7385.8	8387.4	8137.9	8099.1
75°	435.9	462.6	507.4	528.0	638.2	1111.7	2644.8	5189.2	7068.6	7177.6	6913.6
77.5°	324.5	325.7	387.6	411.7	455.3	592.1	1119.0	2896.8	4388.6	4607.9	4110.1
80°	274.9	260.3	259.1	331.8	342.8	369.3	500.1	1000.3	1571.8	953.0	720.6
82.5°	228.9	213.1	192.6	259.1	233.7	226.4	216.8	406.9	500.1	245.8	209.5
85°	159.9	152.6	145.3	169.5	133.2	113.9	104.1	190.1	210.7	104.1	92.0
87.5°	69.0	71.4	72.7	75.1	55.7	40.0	40.0	53.3	53.3	41.2	30.2
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)