

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: P968146

Luminaire Tested: **NAV-SB5B-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5B-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25223.2 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

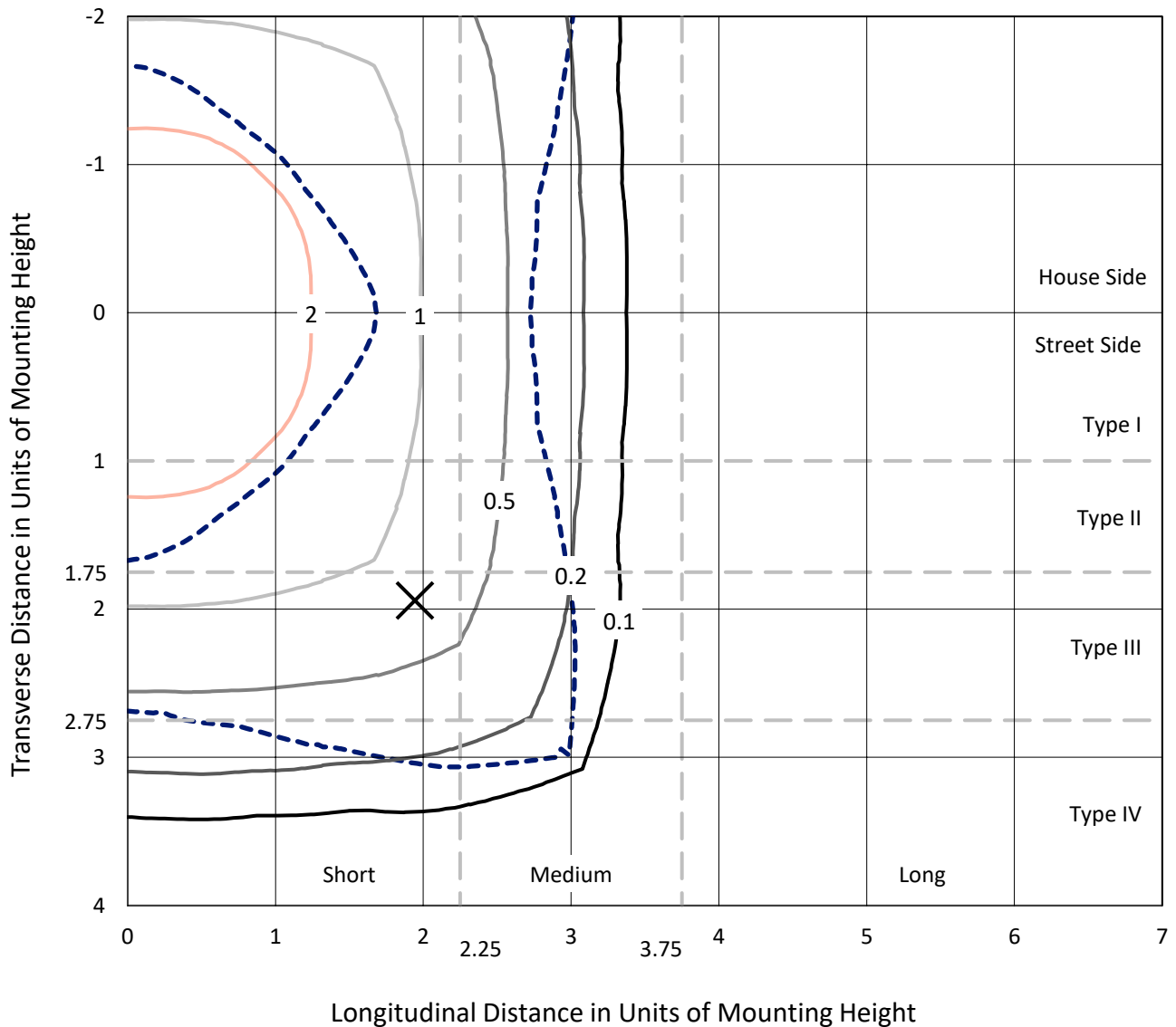
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

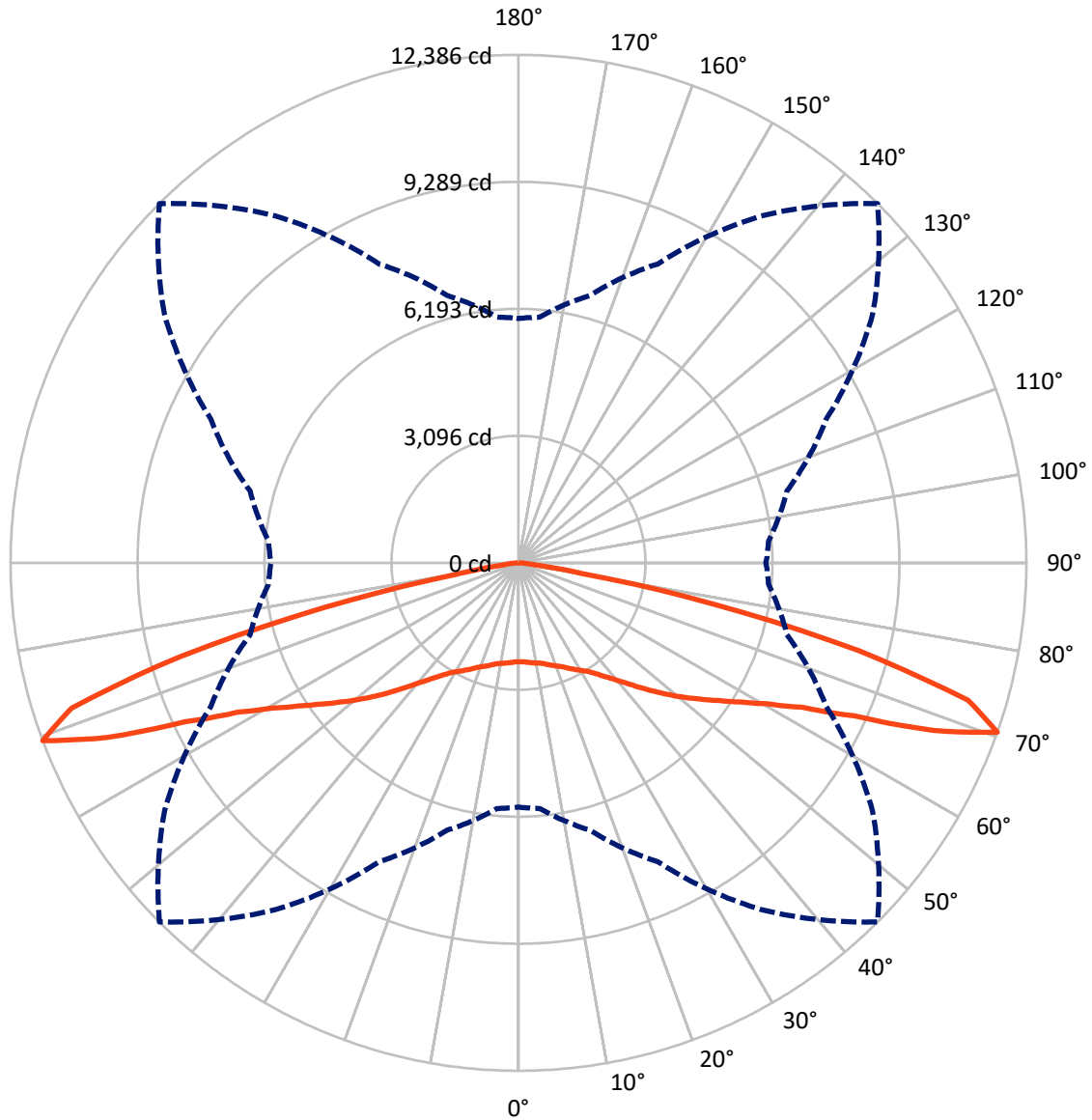
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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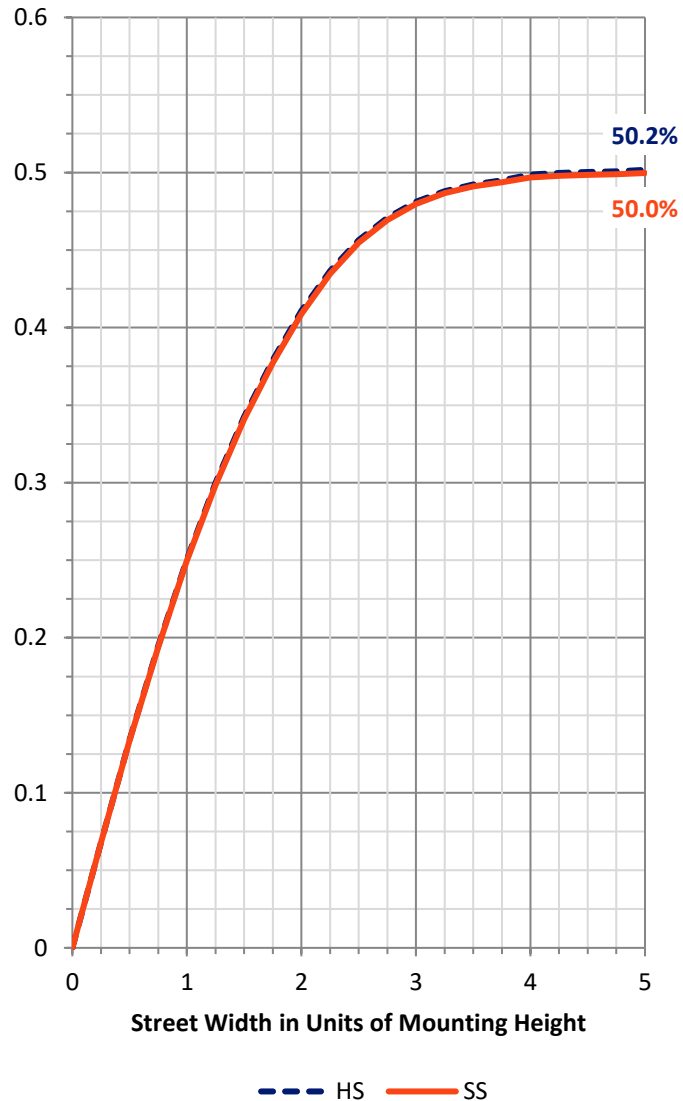
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12611.6	0.0	12611.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12611.6	0.0	12611.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25223.2	0.0	25223.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.7	0.9
10°-20°	727.9	2.9
20°-30°	1300.8	5.2
30°-40°	2108.5	8.4
40°-50°	3434.5	13.6
50°-60°	5236.4	20.8
60°-70°	7790.1	30.9
70°-80°	4245.8	16.8
80°-90°	144.6	0.6
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°	25223.2	100.0
0°-180°	25223.2	100.0

**Coefficient of Utilization**



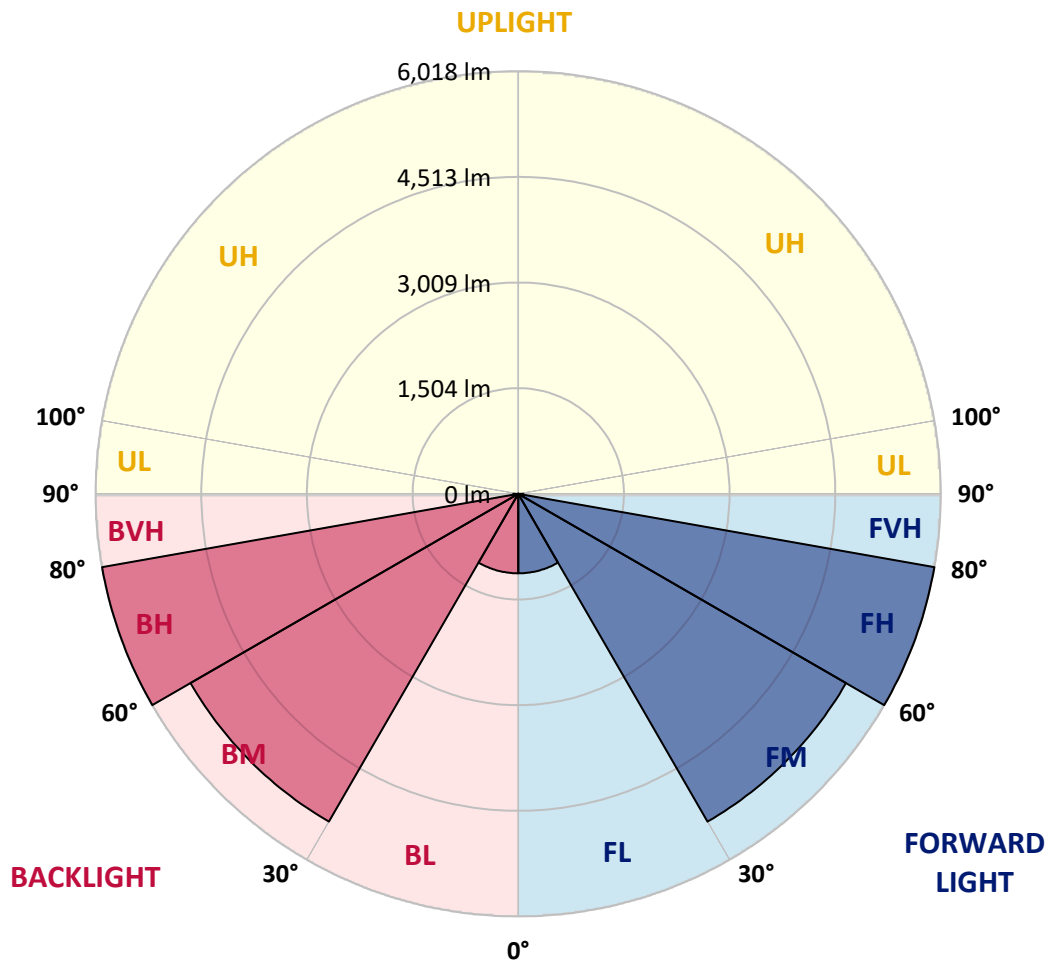
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.7	4.5			
FM (30°-60°)	5389.7	21.4			
FH (60°-80°)	6018.0	23.9			G3/7500
FVH (80°-90°)	72.3	0.3			G1/100
BL (0°-30°)	1131.7	4.5	B3/2500		
BM (30°-60°)	5389.7	21.4	B4/8500		
BH (60°-80°)	6018.0	23.9	B5		G3/7500
BVH (80°-90°)	72.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1
2.5°	2427.5	2430.1	2424.9	2422.5	2419.9	2416.1	2417.4	2423.7	2428.7	2427.5	2428.7
5°	2447.8	2450.3	2446.5	2445.2	2440.2	2438.9	2438.9	2445.2	2449.0	2446.5	2447.8
7.5°	2470.6	2474.4	2468.0	2466.8	2464.2	2461.7	2460.4	2466.8	2470.6	2470.6	2470.6
10°	2492.1	2495.9	2490.9	2487.1	2484.5	2484.5	2481.9	2487.1	2493.4	2492.1	2492.1
12.5°	2514.9	2517.4	2512.4	2509.8	2509.8	2513.6	2509.8	2512.4	2517.4	2514.9	2513.6
15°	2542.7	2544.0	2542.7	2546.5	2552.9	2565.6	2554.2	2551.6	2554.2	2547.8	2547.8
17.5°	2580.7	2583.3	2588.3	2597.2	2606.1	2628.8	2608.6	2602.3	2602.3	2589.6	2589.6
20°	2627.6	2631.4	2639.0	2654.2	2665.6	2687.1	2666.8	2658.0	2654.2	2637.7	2637.7
22.5°	2677.0	2683.3	2694.7	2715.0	2735.2	2755.5	2735.2	2720.0	2708.7	2687.1	2685.8
25°	2734.0	2741.6	2759.3	2792.2	2820.1	2849.2	2825.1	2794.8	2771.9	2741.6	2740.3
27.5°	2815.1	2823.9	2845.4	2885.9	2921.4	2946.7	2923.9	2884.7	2853.0	2816.3	2815.1
30°	2928.9	2937.9	2963.2	3006.2	3030.3	3046.7	3031.5	3001.2	2963.2	2921.4	2921.4
32.5°	3075.8	3087.3	3115.1	3155.7	3160.7	3163.3	3158.2	3143.0	3115.1	3064.4	3065.8
35°	3262.1	3274.7	3306.3	3339.2	3334.2	3339.2	3331.7	3326.6	3306.3	3248.1	3248.1
37.5°	3489.9	3505.2	3538.1	3563.4	3550.7	3544.4	3545.7	3546.9	3535.5	3471.0	3471.0
40°	3754.6	3774.9	3799.0	3825.5	3804.0	3785.0	3797.6	3807.8	3797.6	3731.8	3731.8
42.5°	4026.9	4056.0	4081.3	4119.3	4101.5	4077.6	4095.3	4106.7	4085.1	4014.2	4019.2
45°	4329.5	4357.4	4390.3	4447.3	4434.7	4409.3	4434.7	4437.1	4400.4	4316.9	4325.7
47.5°	4642.3	4671.4	4720.8	4796.8	4791.7	4763.9	4796.8	4779.1	4732.2	4632.2	4625.8
50°	4938.7	4979.1	5055.1	5161.5	5171.6	5137.4	5181.8	5147.5	5069.0	4943.7	4941.1
52.5°	5217.2	5260.3	5380.5	5525.0	5561.6	5517.3	5576.8	5517.3	5399.6	5238.8	5223.5
55°	5509.7	5557.9	5700.9	5889.6	5963.0	5930.1	5985.9	5895.9	5728.8	5533.8	5507.2
57.5°	5854.2	5883.3	6054.3	6278.3	6402.5	6410.0	6435.4	6283.5	6080.8	5859.2	5828.9
60°	6227.7	6268.3	6454.4	6722.9	6919.2	6982.4	6955.9	6730.5	6494.9	6240.4	6199.8
62.5°	6706.4	6750.8	6973.6	7295.2	7605.5	7762.5	7658.7	7331.9	7040.7	6735.5	6682.3
65°	7102.7	7152.1	7554.8	8128.5	8693.2	9008.5	8747.7	8146.2	7621.9	7191.4	7120.5
67.5°	6815.3	6876.1	7507.9	8561.5	9965.9	10906.7	10013.9	8690.7	7663.7	7080.0	6992.6
70°	5956.7	6013.7	6750.8	8038.6	10324.2	12385.8	10539.5	8275.3	6774.7	6121.3	6034.0
72.5°	3954.7	4138.3	4884.1	6429.1	9218.7	11461.3	9309.9	6298.6	4530.9	3945.8	3817.9
75°	1311.9	1458.8	1967.9	3332.9	6174.5	8571.7	5878.2	2949.2	1558.8	1122.0	1061.2
77.5°	330.5	381.2	525.5	953.6	2463.0	4880.3	2217.3	778.8	424.2	296.3	264.7
80°	160.8	177.3	253.3	317.9	616.7	1551.2	578.7	298.9	200.1	154.5	141.9
82.5°	88.7	89.9	143.1	179.8	229.2	401.4	238.1	174.8	115.2	93.7	93.7
85°	54.4	53.2	76.0	96.2	96.2	143.1	114.0	96.2	65.8	58.2	60.8
87.5°	21.5	21.5	27.9	30.4	26.5	36.7	29.1	31.7	25.3	24.1	25.3
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)