

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: P965512

Luminaire Tested: **NAV-SB4A-722-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4A-722-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15952.1 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

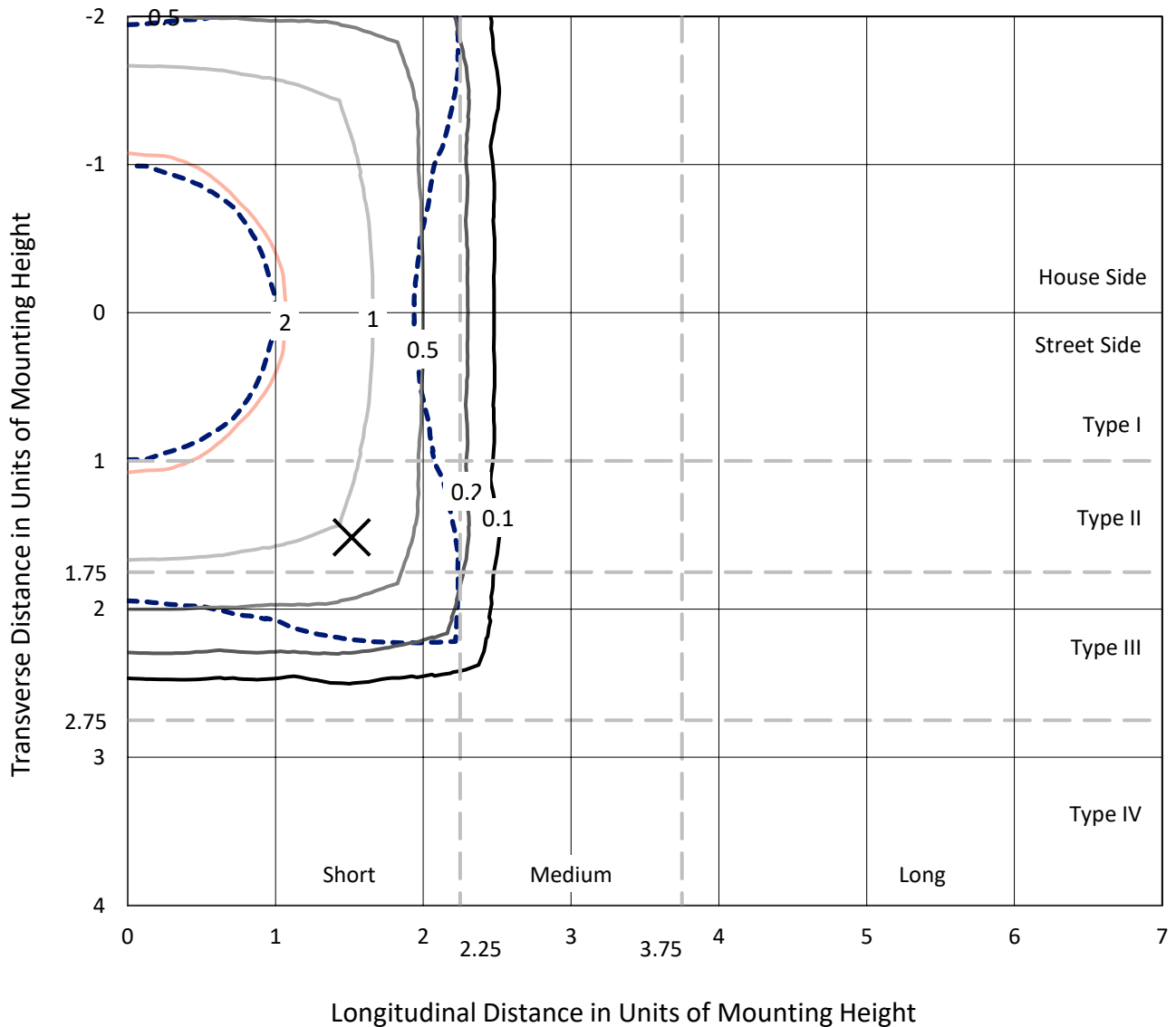
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

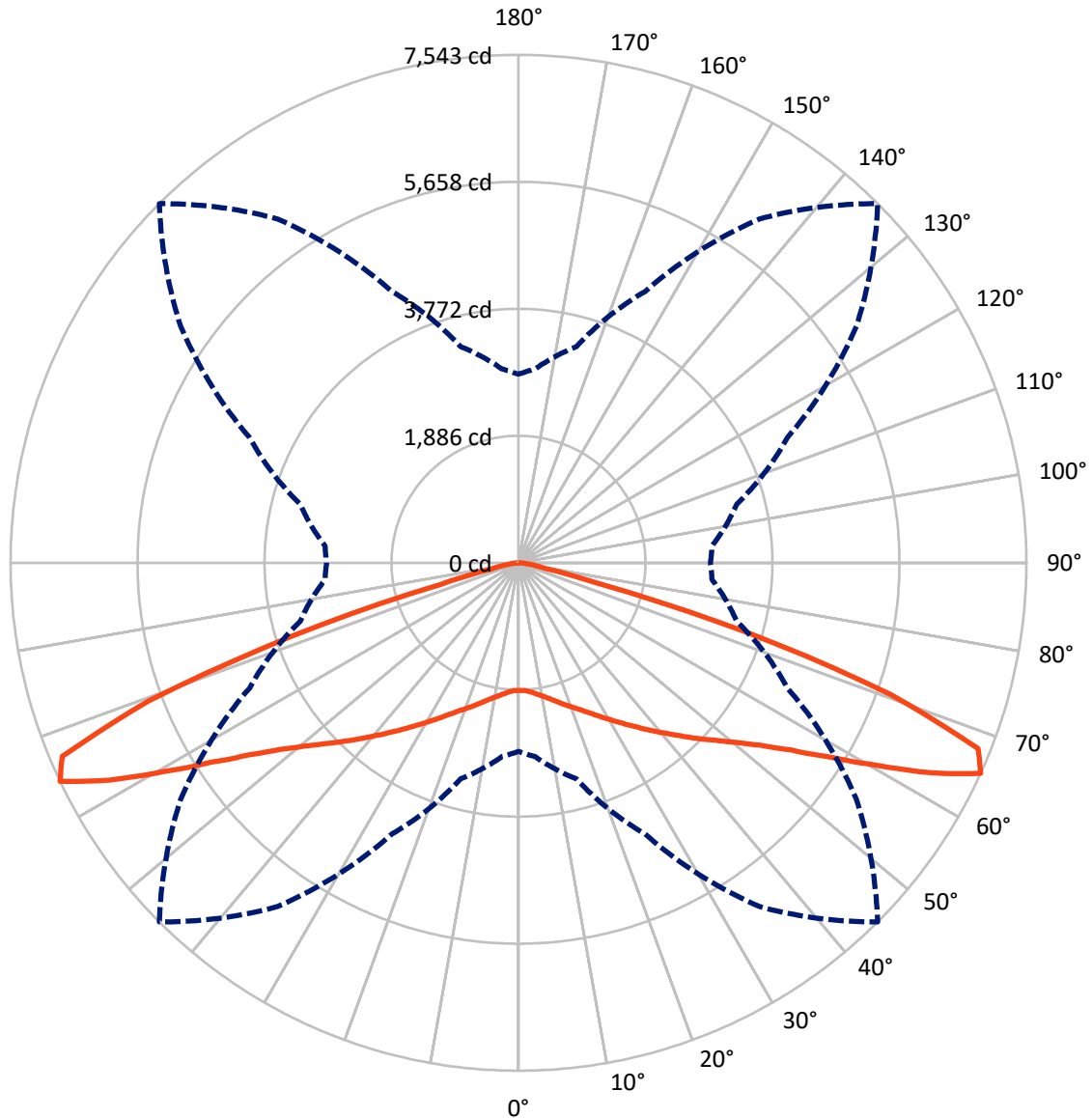
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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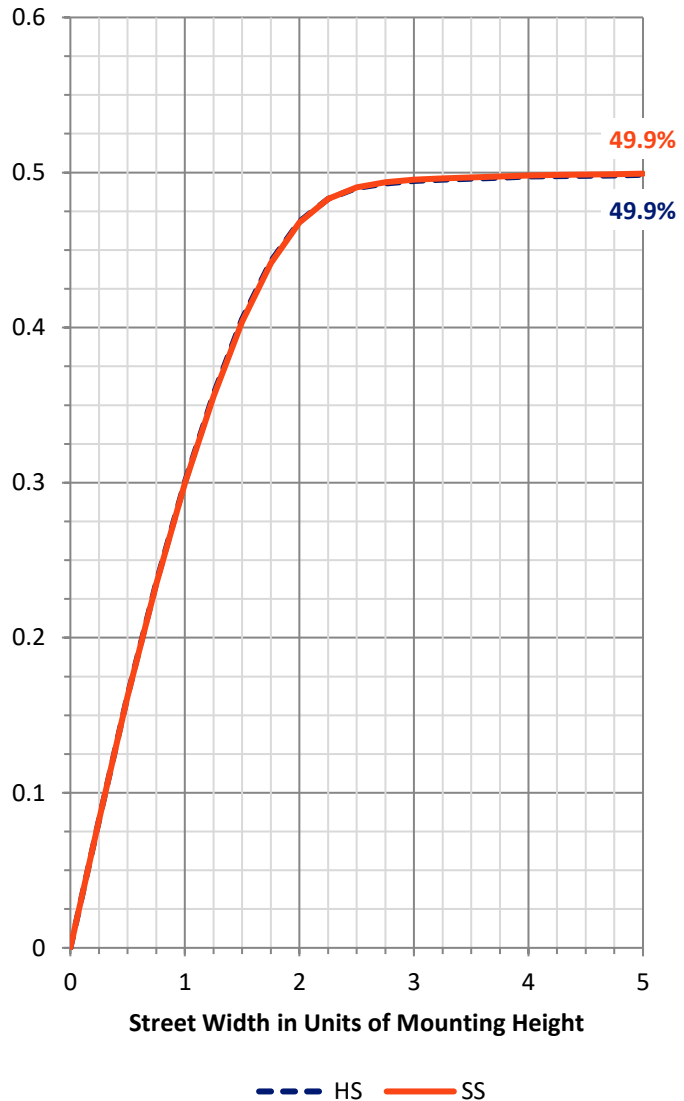
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7976.0	0.0	7976.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7976.0	0.0	7976.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15952.1	0.0	15952.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	1.2
10°-20°	611.4	3.8
20°-30°	1154.3	7.2
30°-40°	1890.2	11.8
40°-50°	2930.7	18.4
50°-60°	4329.3	27.1
60°-70°	4121.1	25.8
70°-80°	665.0	4.2
80°-90°	62.7	0.4
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°	15952.1	100.0
0°-180°	15952.1	100.0

**Coefficient of Utilization**

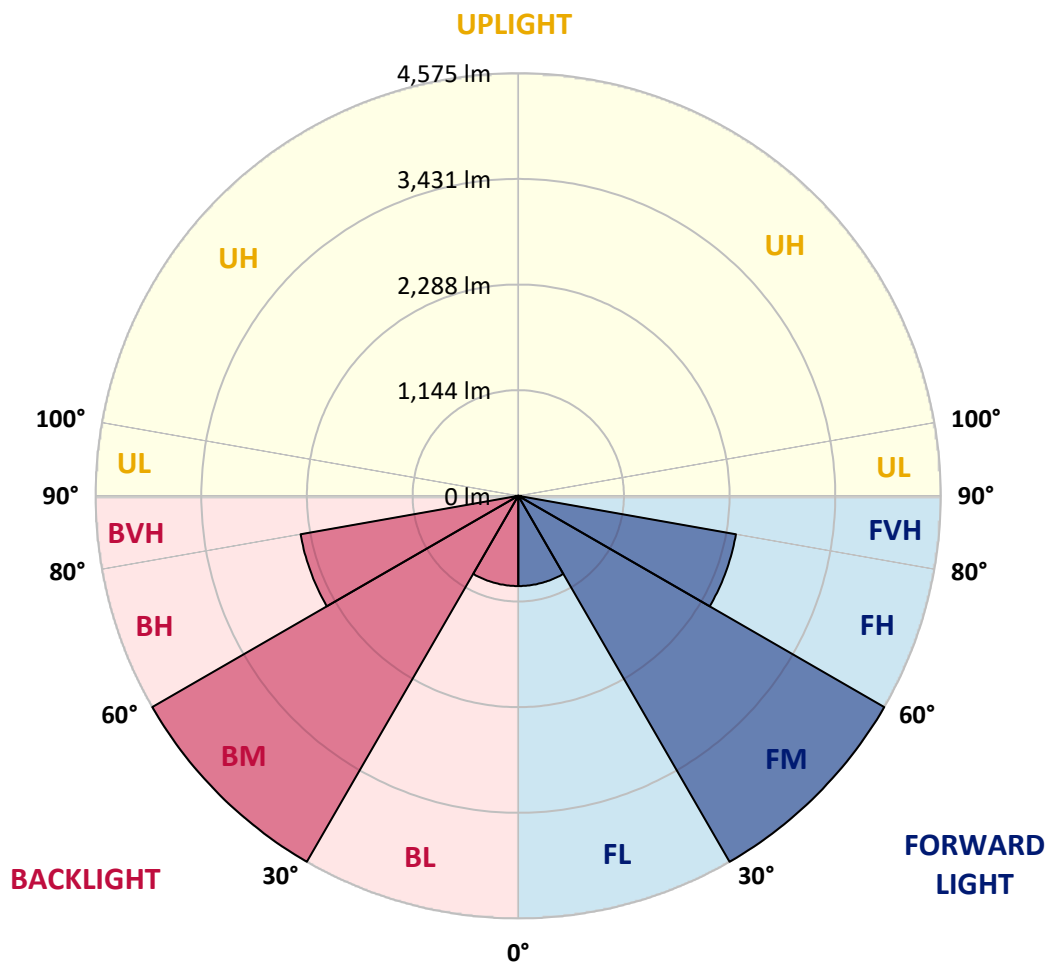


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.5	6.1			
FM (30°-60°)	4575.1	28.7			
FH (60°-80°)	2393.1	15.0			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	976.5	6.1	B2/1000		
BM (30°-60°)	4575.1	28.7	B3/5000		
BH (60°-80°)	2393.1	15.0	B3/2500		G2/5000
BVH (80°-90°)	31.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5	1898.5
2.5°	1911.2	1904.9	1909.7	1905.7	1902.5	1899.2	1900.9	1906.5	1908.9	1909.7	1909.7
5°	1936.8	1931.3	1933.7	1933.7	1928.0	1926.5	1927.3	1931.3	1936.1	1936.1	1936.1
7.5°	1978.5	1972.9	1978.5	1975.3	1970.5	1968.9	1968.1	1971.3	1978.5	1978.5	1976.1
10°	2028.9	2022.5	2025.7	2024.1	2018.5	2016.1	2015.4	2020.1	2026.5	2025.7	2024.1
12.5°	2084.1	2077.0	2081.0	2076.1	2074.5	2072.1	2072.1	2071.3	2075.3	2072.1	2073.8
15°	2145.7	2140.9	2142.6	2139.4	2141.7	2140.2	2133.7	2130.6	2132.2	2127.4	2128.2
17.5°	2218.6	2207.4	2213.0	2211.4	2211.4	2214.6	2204.2	2200.2	2203.4	2198.6	2202.6
20°	2302.7	2291.4	2293.8	2290.7	2286.7	2289.8	2277.0	2280.2	2282.7	2279.4	2286.7
22.5°	2394.7	2380.3	2379.4	2381.1	2372.3	2373.1	2364.3	2372.3	2377.1	2368.3	2377.1
25°	2489.1	2473.9	2484.3	2480.3	2469.1	2471.5	2465.1	2473.1	2477.1	2465.9	2478.8
27.5°	2589.1	2578.8	2588.3	2590.8	2577.2	2586.8	2577.2	2584.3	2588.3	2571.5	2584.3
30°	2706.0	2695.6	2704.5	2710.8	2694.8	2710.0	2702.0	2706.8	2707.6	2687.7	2699.6
32.5°	2833.3	2817.3	2839.7	2842.8	2825.3	2843.7	2833.3	2839.7	2843.7	2816.5	2834.8
35°	2988.6	2968.5	2994.1	2990.1	2975.0	2990.1	2980.5	2990.1	2999.8	2967.0	2987.0
37.5°	3155.9	3135.1	3162.2	3155.1	3140.6	3151.1	3145.4	3151.8	3167.0	3131.8	3153.4
40°	3339.9	3314.3	3351.1	3338.3	3324.7	3323.0	3326.3	3330.3	3350.3	3311.1	3323.9
42.5°	3536.8	3509.6	3564.8	3544.8	3525.6	3512.8	3523.2	3531.2	3550.4	3506.4	3529.6
45°	3761.6	3730.5	3802.5	3778.5	3748.1	3721.7	3738.5	3750.5	3778.5	3725.7	3752.9
47.5°	4009.8	3974.6	4051.4	4044.2	3994.6	3937.0	3975.4	4009.8	4030.6	3966.5	3988.2
50°	4252.3	4225.2	4325.9	4334.7	4273.9	4193.1	4246.7	4298.7	4304.4	4220.3	4230.7
52.5°	4479.7	4452.4	4598.9	4654.1	4599.7	4503.6	4560.4	4613.3	4570.9	4462.0	4465.2
55°	4661.3	4638.8	4825.4	4967.9	4986.2	4907.0	4940.6	4939.1	4799.8	4632.5	4638.1
57.5°	4705.4	4702.1	4937.4	5239.2	5431.3	5440.9	5374.4	5204.7	4904.6	4679.7	4665.3
60°	4505.2	4525.3	4848.6	5380.8	5893.0	6105.9	5818.6	5334.4	4785.3	4473.2	4436.4
62.5°	3906.6	3959.4	4349.2	5207.9	6266.0	6871.1	6174.8	5137.5	4295.6	3888.1	3864.1
65°	2799.7	2891.7	3322.3	4444.4	6232.4	7543.4	6123.6	4408.4	3354.3	2884.5	2850.1
67.5°	1270.2	1363.9	1729.6	3043.0	5417.6	7360.9	5404.8	3075.0	1816.0	1368.6	1348.6
70°	460.2	476.2	593.9	1218.1	3462.3	5865.0	3610.5	1226.9	631.5	507.5	501.0
72.5°	278.5	281.0	305.8	436.2	1202.9	3560.8	1254.2	450.6	312.1	277.0	281.8
75°	176.9	175.3	217.7	266.5	426.6	1201.3	447.4	266.5	216.9	197.7	199.3
77.5°	127.3	131.3	156.1	199.3	269.0	407.3	264.1	190.4	156.1	128.0	130.5
80°	95.2	97.7	113.7	155.3	188.9	253.7	168.1	140.8	117.7	80.1	82.4
82.5°	68.9	68.9	74.4	112.9	115.2	136.8	91.2	99.2	77.6	56.8	56.8
85°	40.8	40.0	46.4	67.2	60.1	50.4	41.6	60.8	48.8	35.3	34.4
87.5°	14.5	15.2	14.5	19.2	16.0	13.6	12.8	16.8	13.6	12.0	11.2
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)