

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: P966039

Luminaire Tested: **NAV-SB4B-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966039
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-SB4B-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20024.4 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

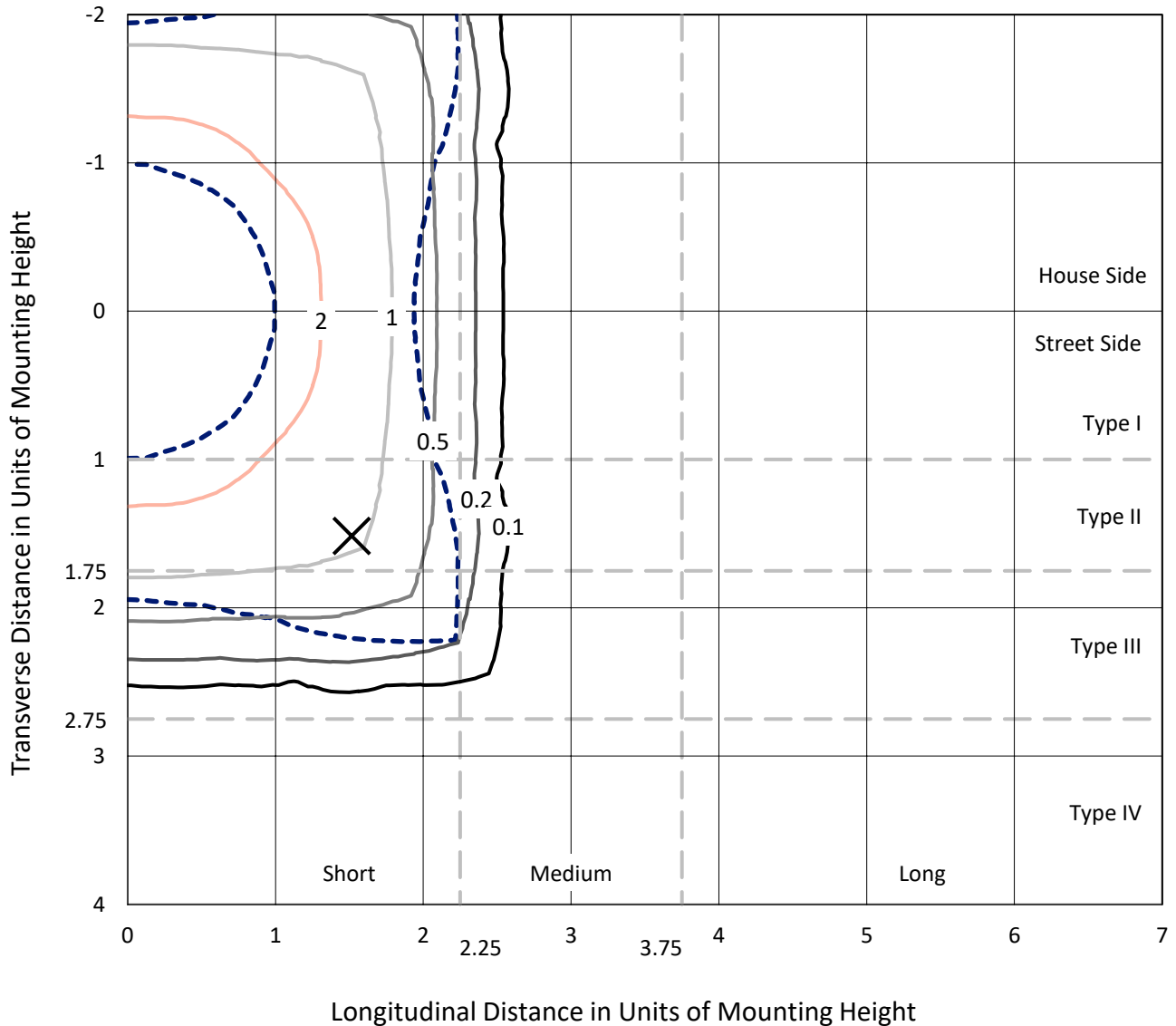
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

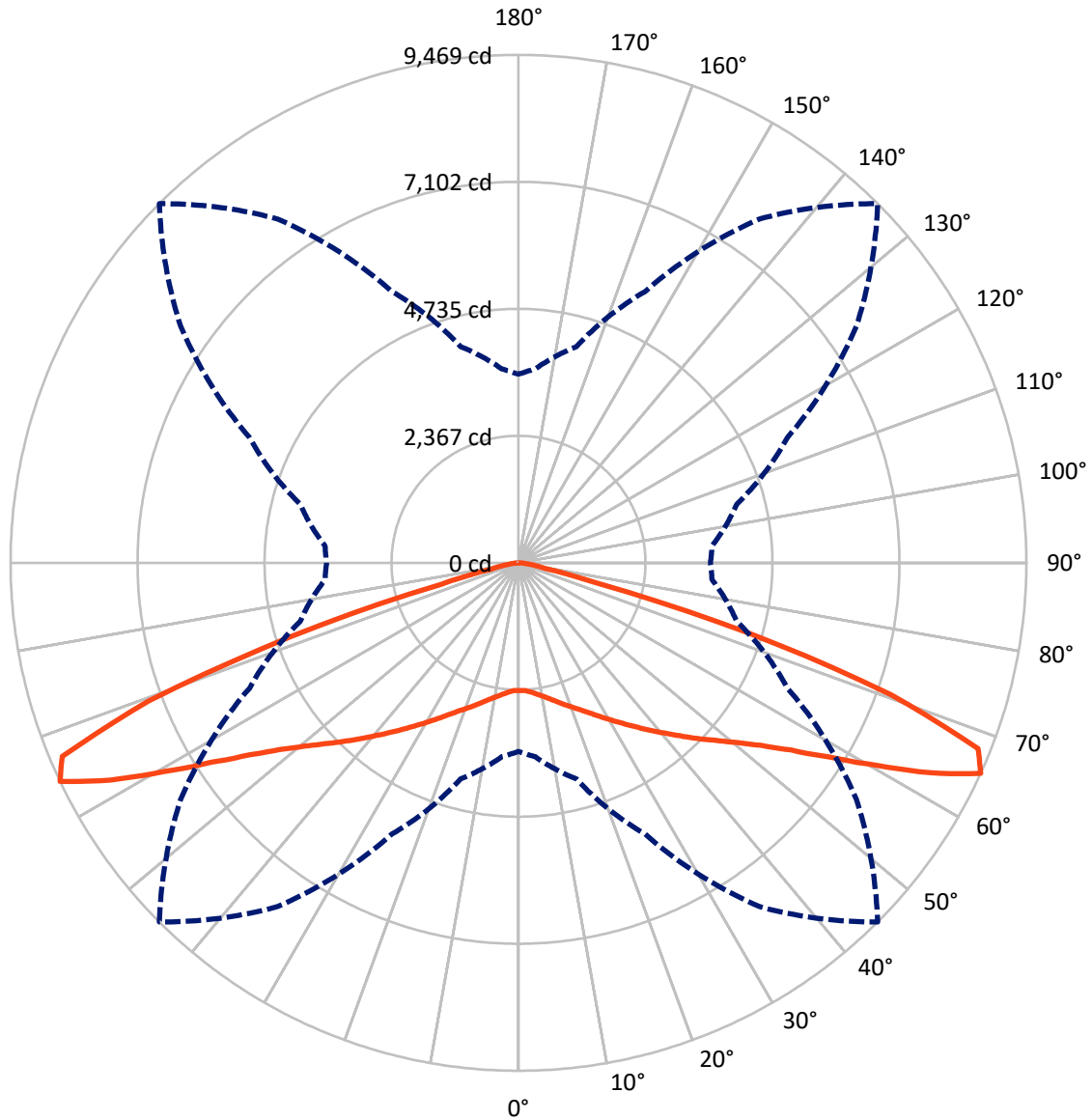
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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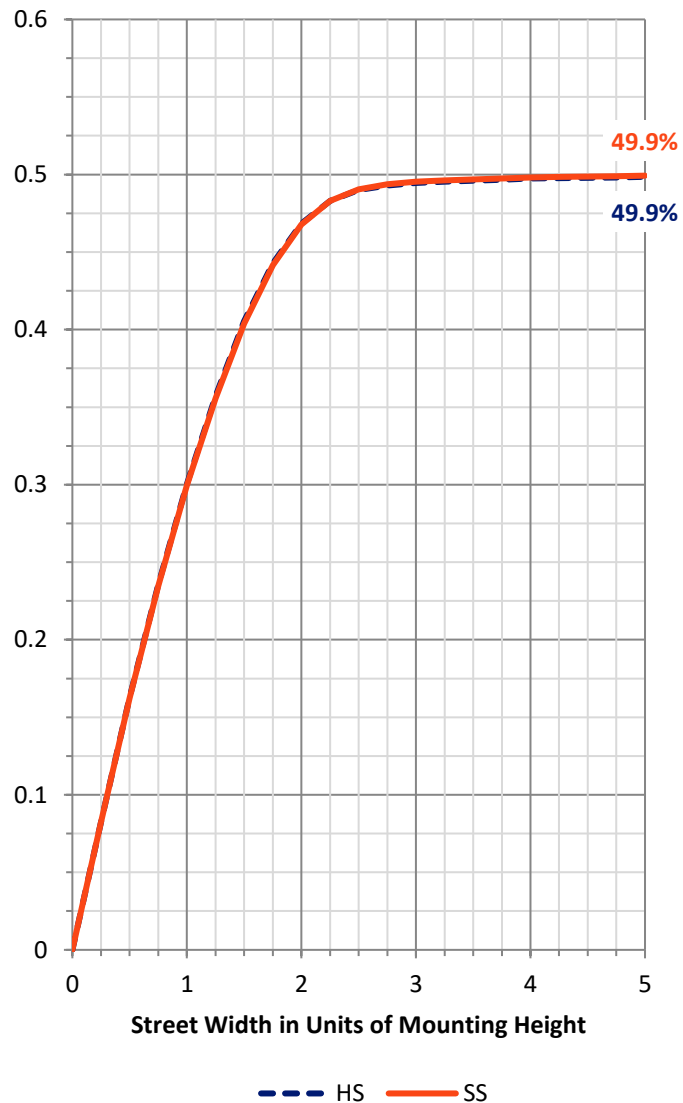
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10012.2	0.0	10012.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10012.2	0.0	10012.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20024.4	0.0	20024.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.2
10°-20°	767.4	3.8
20°-30°	1449.0	7.2
30°-40°	2372.7	11.8
40°-50°	3678.9	18.4
50°-60°	5434.5	27.1
60°-70°	5173.2	25.8
70°-80°	834.8	4.2
80°-90°	78.7	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°	20024.4	100.0
0°-180°	20024.4	100.0

Coefficient of Utilization



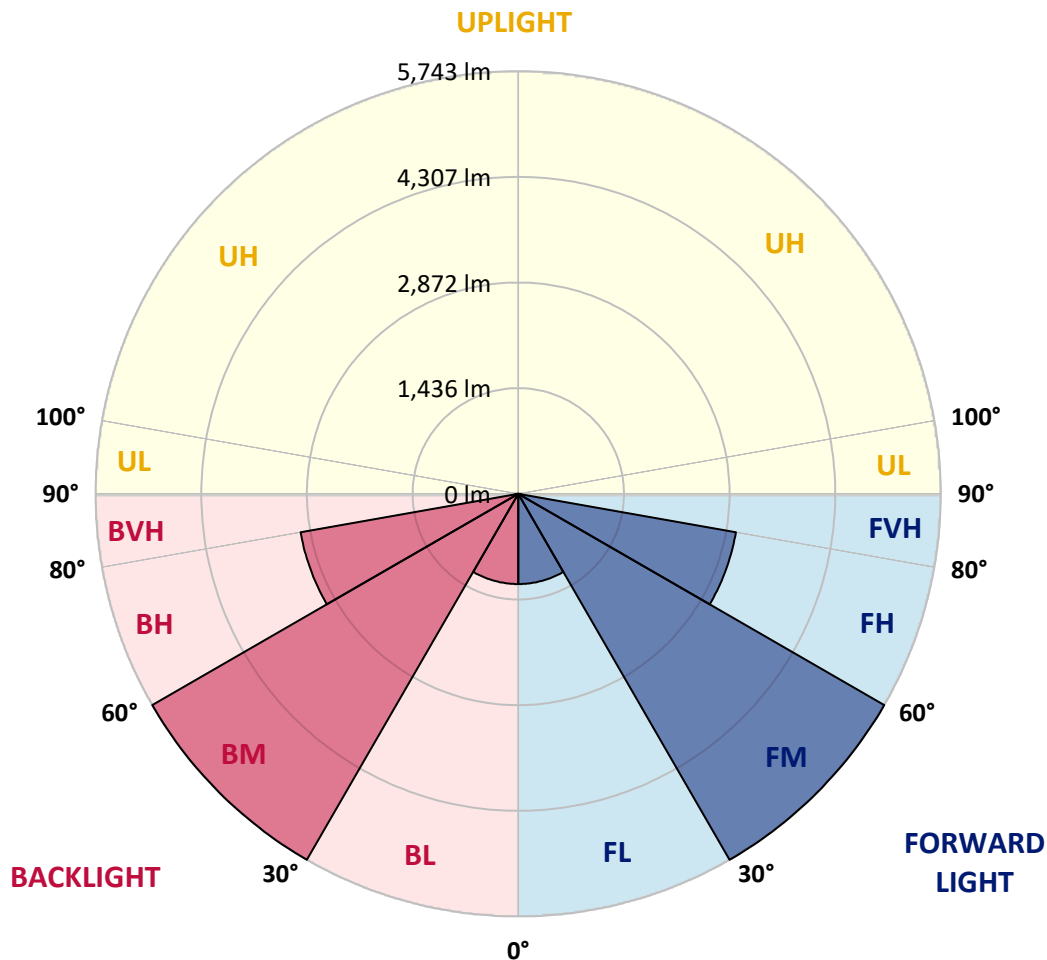
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.8	6.1			
FM (30°-60°)	5743.1	28.7			
FH (60°-80°)	3004.0	15.0			G2/5000
FVH (80°-90°)	39.3	0.2			G1/100
BL (0°-30°)	1225.8	6.1	B3/2500		
BM (30°-60°)	5743.1	28.7	B4/8500		
BH (60°-80°)	3004.0	15.0	B4/5000		G2/5000
BVH (80°-90°)	39.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1
2.5°	2399.2	2391.1	2397.2	2392.1	2388.1	2384.1	2386.1	2393.2	2396.1	2397.2	2397.2
5°	2431.3	2424.3	2427.3	2427.3	2420.2	2418.3	2419.3	2424.3	2430.3	2430.3	2430.3
7.5°	2483.6	2476.5	2483.6	2479.6	2473.5	2471.5	2470.6	2474.6	2483.6	2483.6	2480.6
10°	2546.8	2538.8	2542.8	2540.9	2533.8	2530.8	2529.8	2535.8	2543.8	2542.8	2540.9
12.5°	2616.2	2607.2	2612.2	2606.2	2604.1	2601.1	2601.1	2600.1	2605.1	2601.1	2603.1
15°	2693.6	2687.5	2689.5	2685.5	2688.6	2686.5	2678.5	2674.4	2676.5	2670.4	2671.5
17.5°	2785.0	2770.9	2778.0	2775.9	2775.9	2779.9	2766.9	2761.9	2765.9	2759.8	2764.8
20°	2890.5	2876.4	2879.4	2875.4	2870.4	2874.4	2858.3	2862.3	2865.4	2861.3	2870.4
22.5°	3006.0	2987.9	2987.0	2988.9	2977.8	2978.9	2967.8	2977.8	2983.9	2972.8	2983.9
25°	3124.5	3105.4	3118.6	3113.5	3099.4	3102.5	3094.4	3104.4	3109.4	3095.4	3111.5
27.5°	3250.2	3237.1	3249.1	3252.1	3235.1	3247.1	3235.1	3244.1	3249.1	3228.0	3244.1
30°	3396.8	3383.7	3394.8	3402.9	3382.8	3401.9	3391.8	3397.9	3398.8	3373.7	3388.8
32.5°	3556.5	3536.5	3564.6	3568.6	3546.5	3569.7	3556.5	3564.6	3569.7	3535.4	3558.6
35°	3751.5	3726.4	3758.5	3753.4	3734.4	3753.4	3741.5	3753.4	3765.5	3724.3	3749.4
37.5°	3961.4	3935.4	3969.5	3960.5	3942.4	3955.5	3948.4	3956.4	3975.6	3931.3	3958.4
40°	4192.6	4160.4	4206.6	4190.5	4173.5	4171.4	4175.4	4180.5	4205.6	4156.4	4172.5
42.5°	4439.7	4405.6	4474.8	4449.7	4425.6	4409.5	4422.6	4432.6	4456.8	4401.6	4430.7
45°	4722.0	4682.8	4773.2	4743.1	4705.0	4671.7	4692.9	4707.9	4743.1	4676.8	4710.9
47.5°	5033.5	4989.3	5085.7	5076.6	5014.4	4942.0	4990.2	5033.5	5059.6	4979.2	5006.3
50°	5337.9	5303.8	5430.3	5441.3	5365.0	5263.5	5330.8	5396.1	5403.2	5297.7	5310.7
52.5°	5623.2	5589.0	5772.9	5842.2	5773.9	5653.4	5724.6	5790.9	5737.7	5601.1	5605.1
55°	5851.2	5823.1	6057.2	6236.1	6259.2	6159.7	6201.9	6199.9	6025.1	5815.1	5822.1
57.5°	5906.6	5902.5	6197.9	6576.6	6817.8	6829.8	6746.4	6533.5	6156.7	5874.4	5856.3
60°	5655.3	5680.4	6086.3	6754.4	7397.4	7664.7	7304.0	6696.2	6007.0	5615.2	5568.9
62.5°	4903.8	4970.1	5459.5	6537.4	7865.6	8625.2	7751.2	6449.1	5392.1	4880.7	4850.6
65°	3514.4	3629.9	4170.4	5579.0	7823.4	9469.2	7686.8	5533.8	4210.6	3620.9	3577.7
67.5°	1594.4	1712.0	2171.2	3819.8	6800.7	9240.1	6784.6	3859.9	2279.6	1718.0	1692.9
70°	577.7	597.8	745.5	1529.1	4346.2	7362.3	4532.1	1540.2	792.7	636.9	628.9
72.5°	349.6	352.6	383.8	547.6	1510.0	4469.8	1574.3	565.6	391.9	347.6	353.6
75°	222.0	220.1	273.3	334.6	535.5	1508.0	561.6	334.6	272.2	248.2	250.2
77.5°	159.7	164.7	195.9	250.2	337.5	511.4	331.6	239.1	195.9	160.7	163.8
80°	119.5	122.6	142.7	195.0	237.1	318.5	210.9	176.8	147.7	100.4	103.5
82.5°	86.4	86.4	93.5	141.7	144.6	171.8	114.5	124.5	97.5	71.3	71.3
85°	51.2	50.2	58.3	84.4	75.3	63.3	52.3	76.4	61.3	44.2	43.2
87.5°	18.0	19.1	18.0	24.1	20.1	17.1	16.1	21.1	17.1	15.1	14.0
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)