

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: P965574

Luminaire Tested: **NAV-SB4A-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965574
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-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19310 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

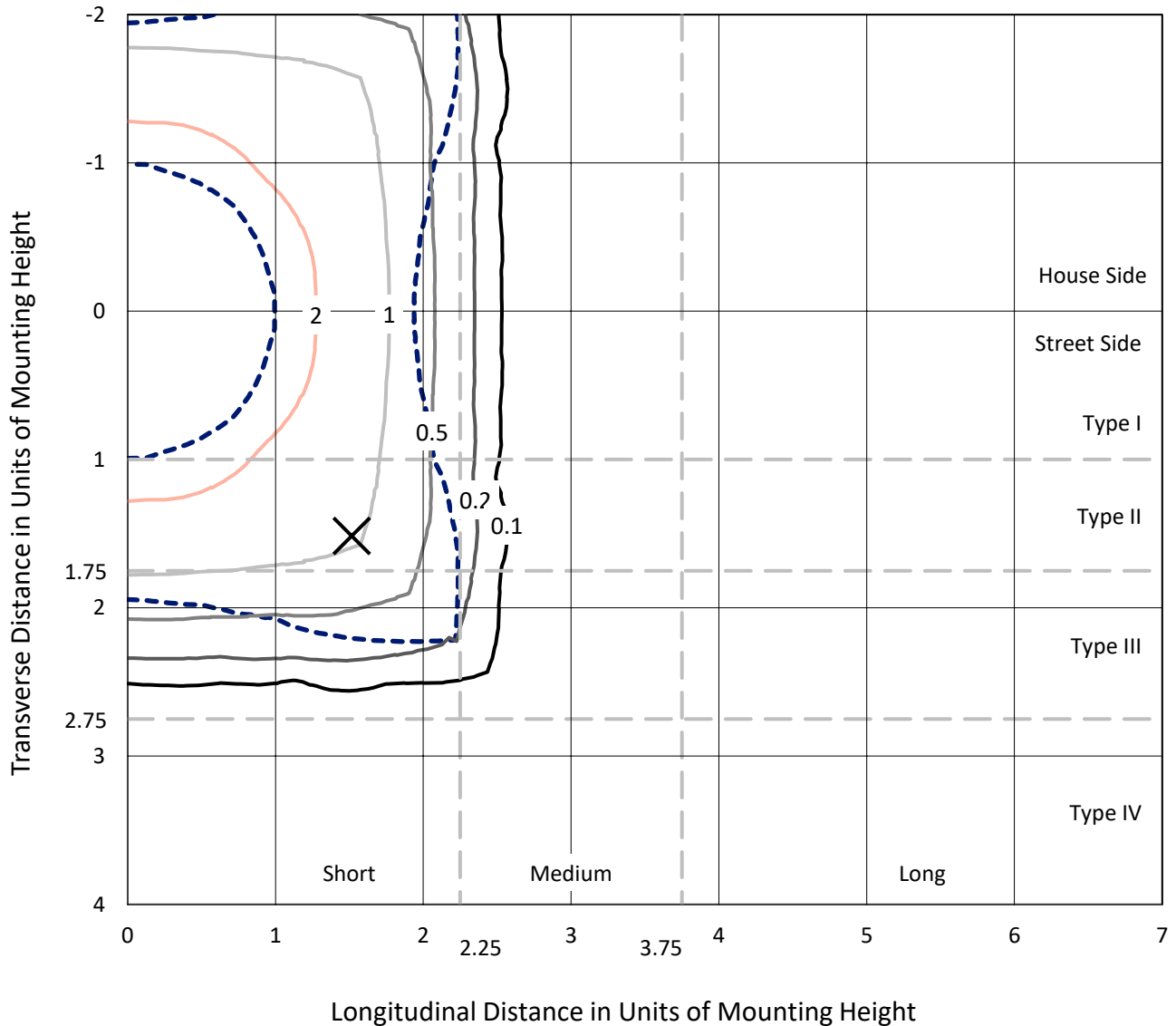
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

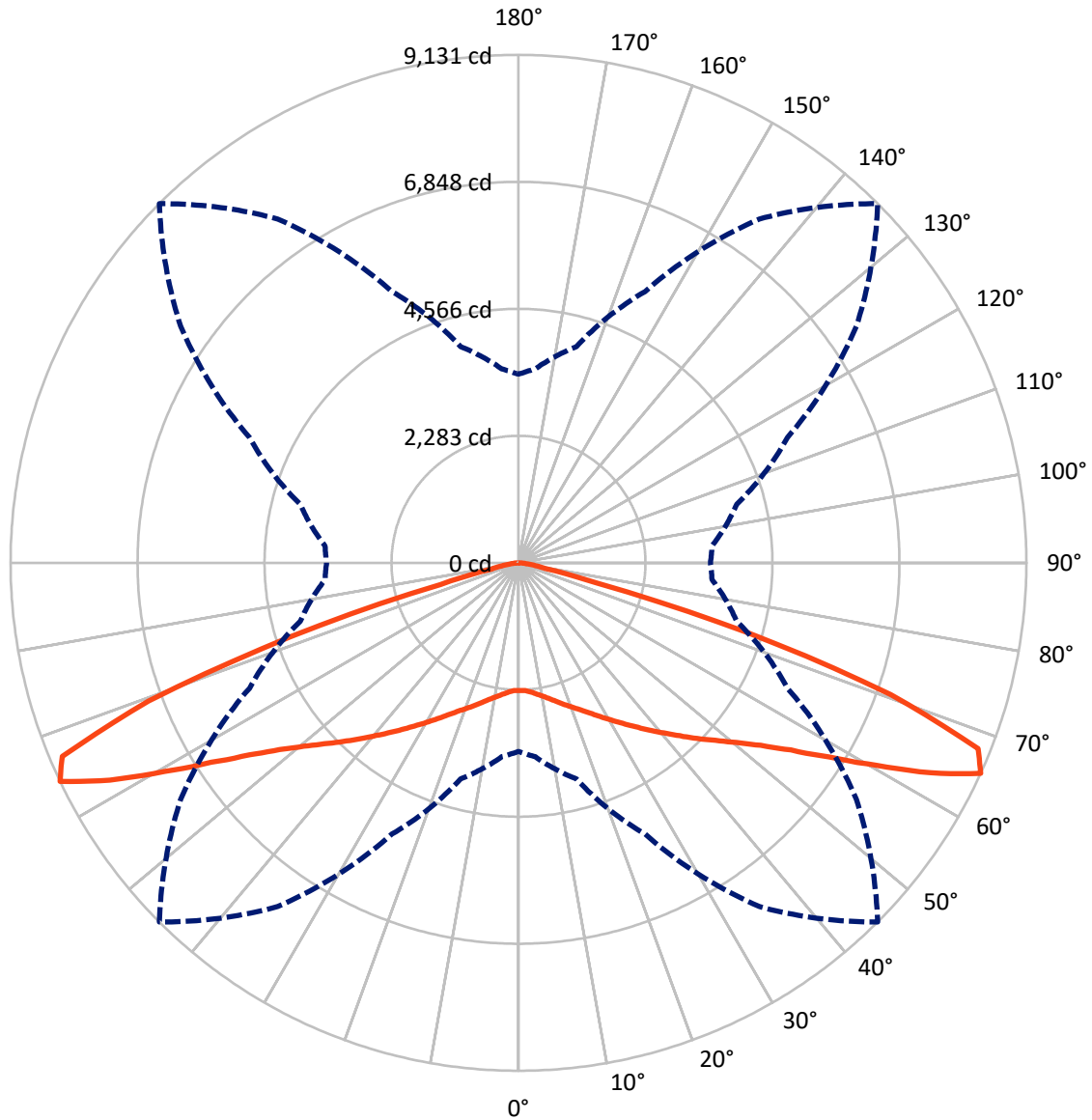
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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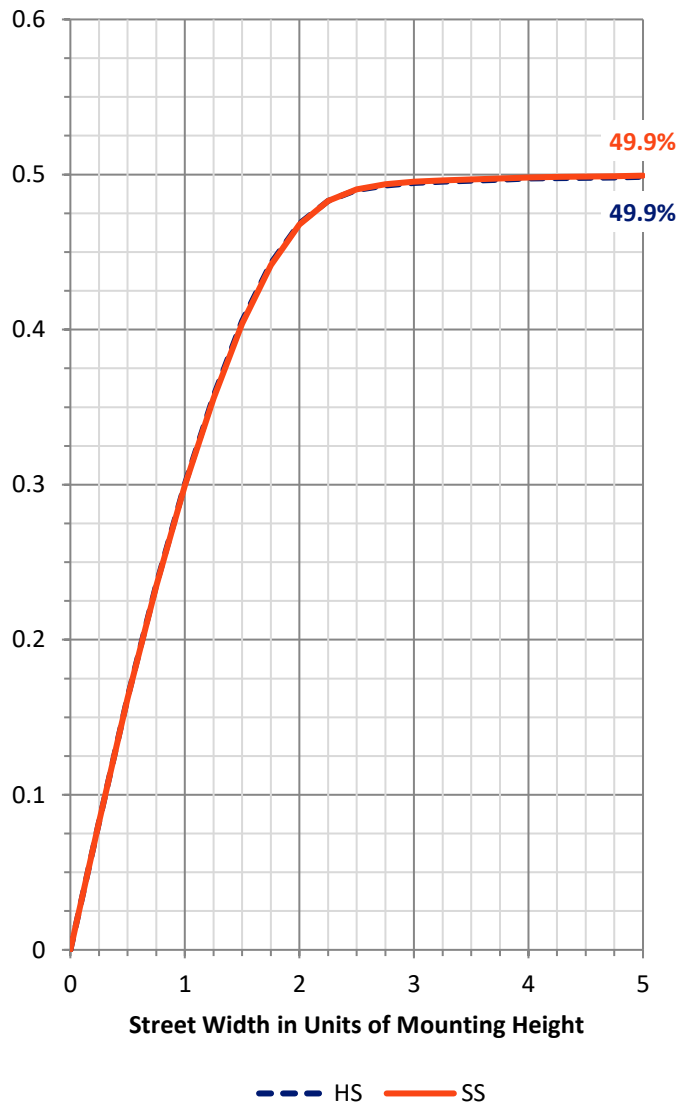
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9655.0	0.0	9655.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9655.0	0.0	9655.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19310.0	0.0	19310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	1.2
10°-20°	740.1	3.8
20°-30°	1397.3	7.2
30°-40°	2288.1	11.8
40°-50°	3547.7	18.4
50°-60°	5240.6	27.1
60°-70°	4988.6	25.8
70°-80°	805.0	4.2
80°-90°	75.9	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°	19310.0	100.0
0°-180°	19310.0	100.0

Coefficient of Utilization



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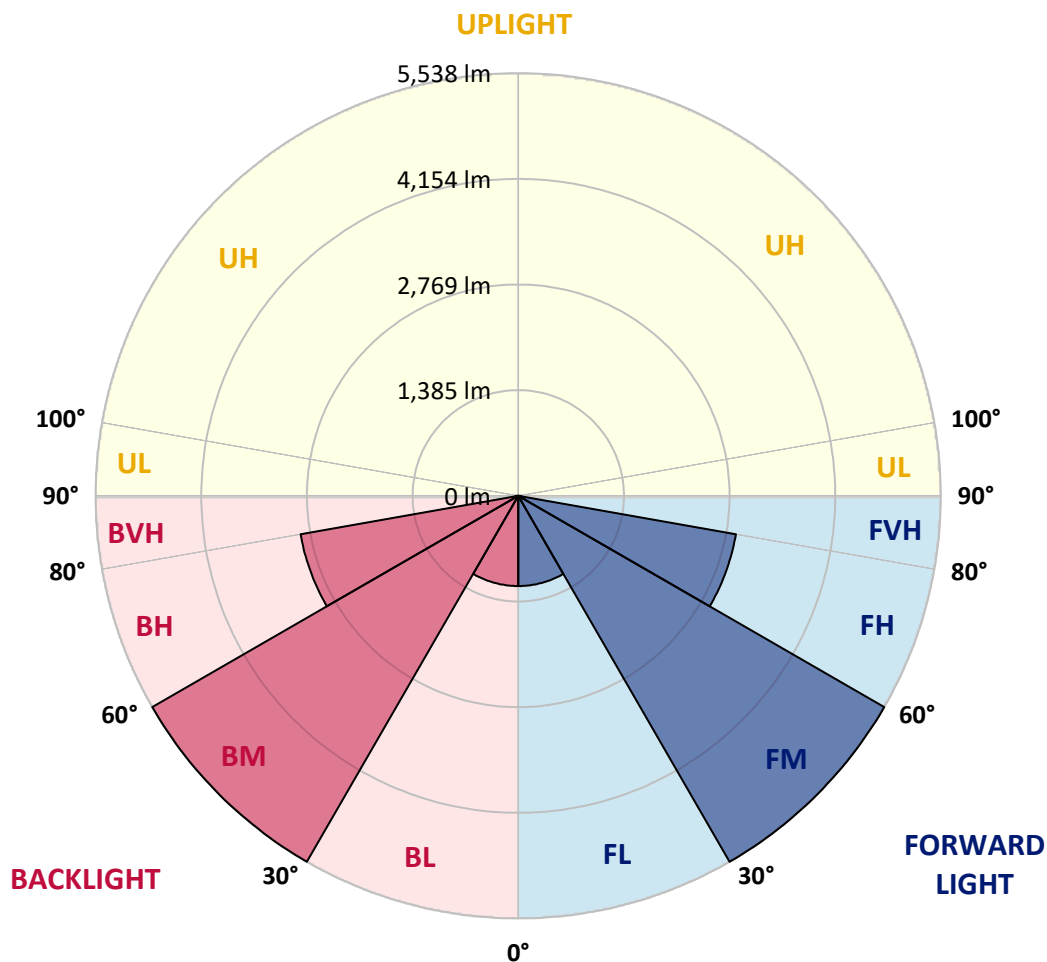
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.1	6.1			
FM (30°-60°)	5538.2	28.7			
FH (60°-80°)	2896.8	15.0			G2/5000
FVH (80°-90°)	37.9	0.2			G1/100
BL (0°-30°)	1182.1	6.1	B3/2500		
BM (30°-60°)	5538.2	28.7	B4/8500		
BH (60°-80°)	2896.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	37.9	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°	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0	2298.0
2.5°	2313.6	2305.8	2311.7	2306.8	2303.0	2299.1	2301.0	2307.8	2310.7	2311.7	2311.7
5°	2344.6	2337.8	2340.7	2340.7	2333.9	2332.0	2333.0	2337.8	2343.7	2343.7	2343.7
7.5°	2395.0	2388.1	2395.0	2391.1	2385.3	2383.3	2382.4	2386.2	2395.0	2395.0	2392.0
10°	2456.0	2448.2	2452.1	2450.2	2443.4	2440.5	2439.5	2445.3	2453.1	2452.1	2450.2
12.5°	2522.8	2514.1	2518.9	2513.2	2511.2	2508.3	2508.3	2507.4	2512.2	2508.3	2510.2
15°	2597.5	2591.6	2593.6	2589.7	2592.6	2590.7	2582.9	2579.0	2581.0	2575.2	2576.1
17.5°	2685.6	2672.1	2678.8	2676.9	2676.9	2680.8	2668.2	2663.4	2667.3	2661.4	2666.2
20°	2787.4	2773.8	2776.7	2772.8	2768.0	2771.8	2756.3	2760.2	2763.1	2759.2	2768.0
22.5°	2898.8	2881.3	2880.4	2882.3	2871.6	2872.6	2861.9	2871.6	2877.5	2866.8	2877.5
25°	3013.1	2994.6	3007.2	3002.4	2988.9	2991.8	2984.0	2993.7	2998.5	2985.0	3000.5
27.5°	3134.1	3121.6	3133.2	3136.1	3119.7	3131.3	3119.7	3128.4	3133.2	3112.8	3128.4
30°	3275.6	3263.1	3273.7	3281.4	3262.1	3280.5	3270.8	3276.6	3277.5	3253.4	3267.9
32.5°	3429.6	3410.3	3437.4	3441.3	3420.0	3442.3	3429.6	3437.4	3442.3	3409.4	3431.6
35°	3617.6	3593.4	3624.4	3619.6	3601.1	3619.6	3607.9	3619.6	3631.2	3591.5	3615.7
37.5°	3820.1	3795.0	3827.9	3819.2	3801.7	3814.3	3807.6	3815.3	3833.7	3791.1	3817.2
40°	4042.9	4012.0	4056.5	4041.1	4024.6	4022.6	4026.5	4031.3	4055.5	4008.1	4023.5
42.5°	4281.3	4248.3	4315.1	4291.0	4267.7	4252.2	4264.8	4274.6	4297.7	4244.4	4272.6
45°	4553.6	4515.7	4603.0	4573.9	4537.1	4505.1	4525.5	4539.9	4573.9	4509.9	4542.9
47.5°	4853.9	4811.2	4904.2	4895.5	4835.4	4765.7	4812.2	4853.9	4879.1	4801.5	4827.8
50°	5147.4	5114.4	5236.5	5247.2	5173.6	5075.7	5140.7	5203.6	5210.4	5108.7	5121.3
52.5°	5422.6	5389.7	5567.0	5633.8	5567.9	5451.7	5520.4	5584.4	5533.1	5401.2	5405.1
55°	5642.5	5615.4	5841.1	6013.6	6035.8	5940.0	5980.7	5978.7	5810.1	5607.7	5614.4
57.5°	5695.8	5691.9	5976.8	6342.0	6574.6	6586.1	6505.8	6300.4	5937.0	5664.8	5647.3
60°	5453.6	5477.8	5869.3	6513.5	7133.6	7391.3	7043.5	6457.3	5792.7	5414.9	5370.3
62.5°	4728.9	4792.8	5264.7	6304.3	7585.0	8317.5	7474.6	6219.0	5199.7	4706.6	4677.6
65°	3389.0	3500.4	4021.7	5379.9	7544.3	9131.3	7412.6	5336.4	4060.4	3491.7	3450.0
67.5°	1537.5	1650.9	2093.7	3683.5	6558.1	8910.4	6542.6	3722.3	2198.3	1656.7	1632.5
70°	557.1	576.5	718.8	1474.6	4191.2	7099.7	4370.4	1485.2	764.4	614.3	606.5
72.5°	337.1	340.1	370.1	528.0	1456.1	4310.3	1518.1	545.5	377.8	335.2	341.0
75°	214.1	212.2	263.5	322.7	516.4	1454.3	541.6	322.7	262.6	239.3	241.3
77.5°	154.1	158.9	188.9	241.3	325.5	493.1	319.7	230.6	188.9	155.0	158.0
80°	115.3	118.2	137.6	188.0	228.7	307.1	203.5	170.6	142.4	96.9	99.8
82.5°	83.3	83.3	90.1	136.6	139.5	165.6	110.5	120.1	94.0	68.8	68.8
85°	49.4	48.5	56.2	81.4	72.7	61.0	50.4	73.6	59.1	42.6	41.6
87.5°	17.4	18.4	17.4	23.3	19.4	16.5	15.5	20.3	16.5	14.6	13.5
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)