

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: P966567

Luminaire Tested: **NAV-SB4C-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25707 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

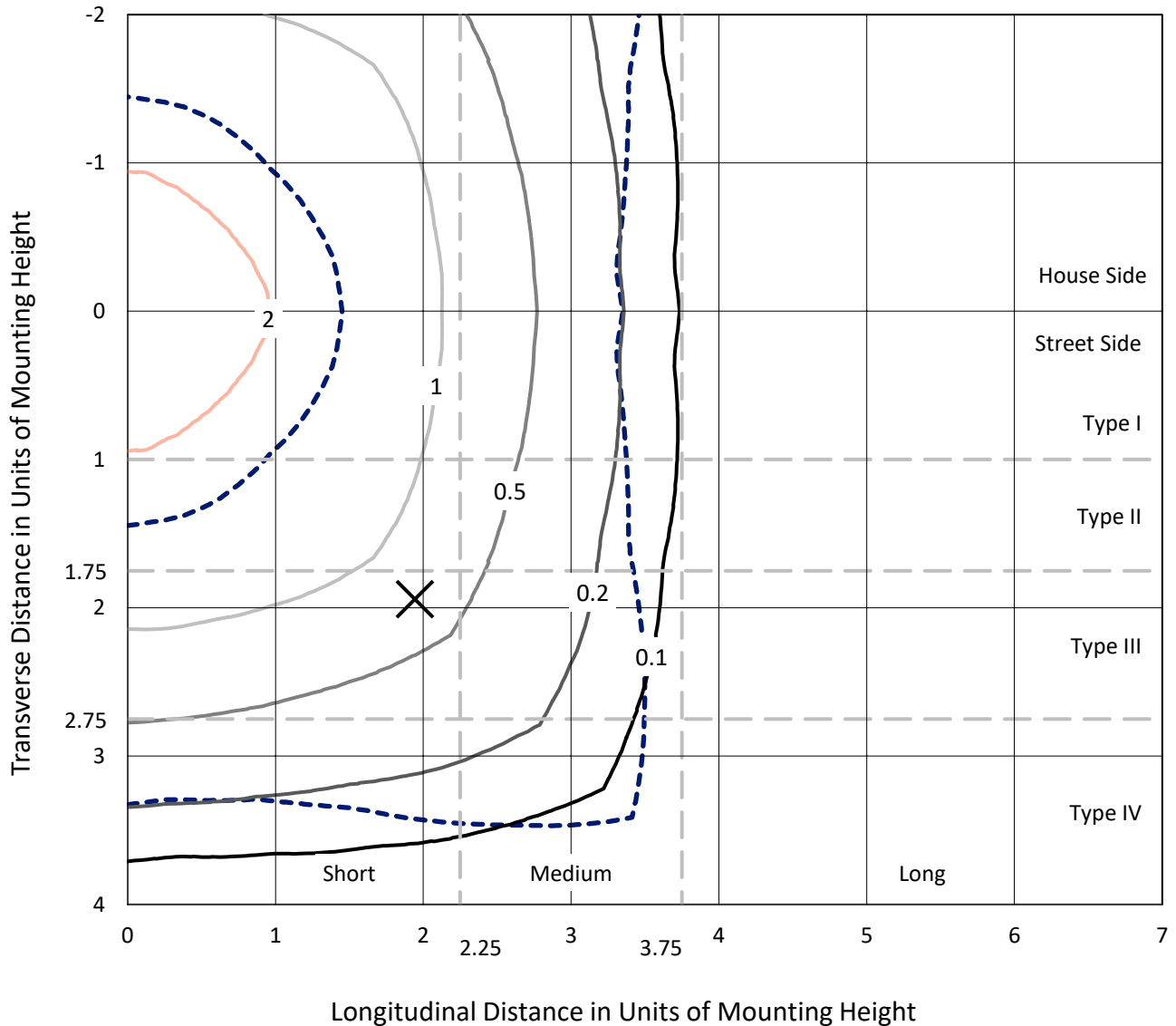
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

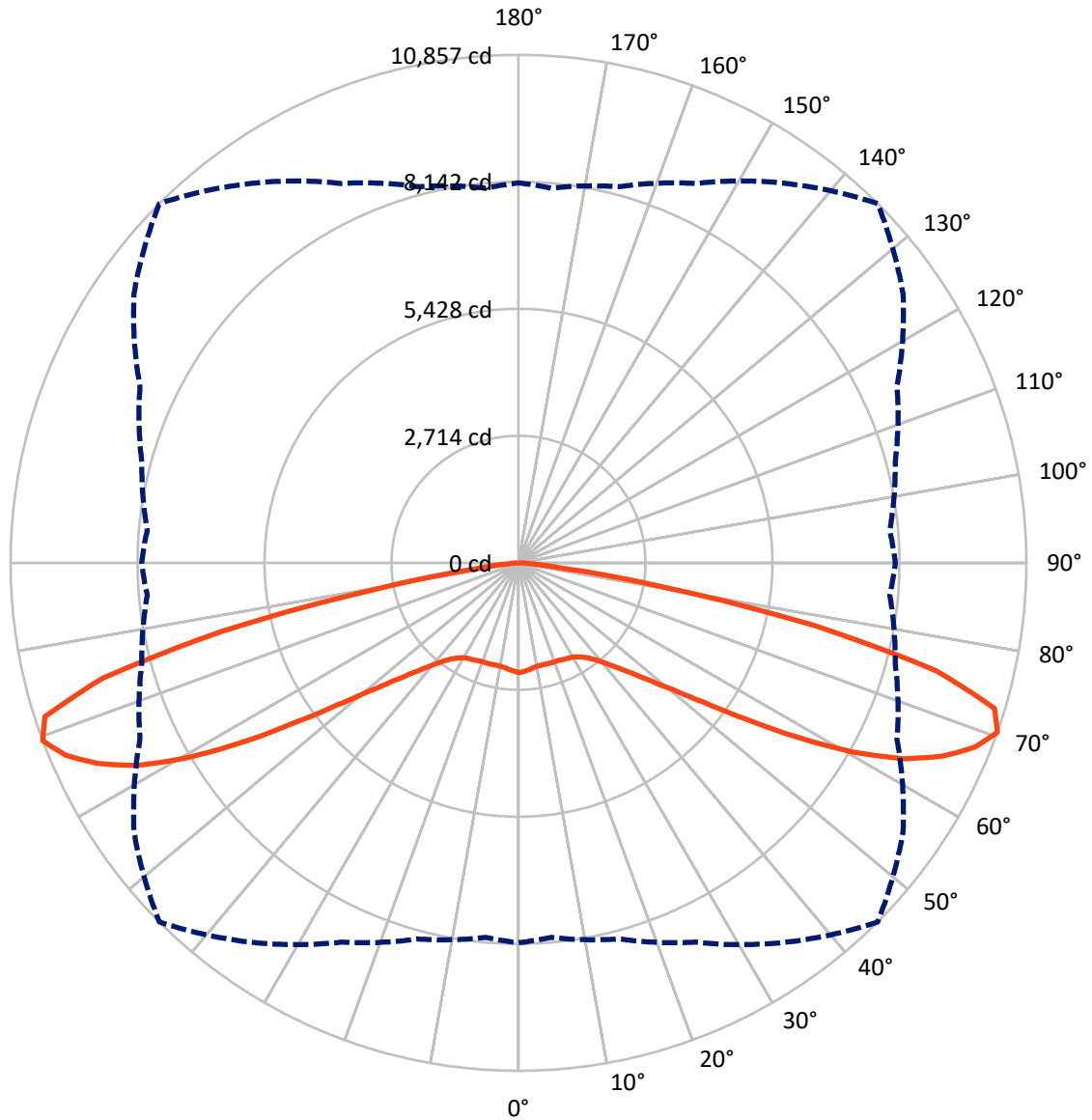
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
House Side	Lumens	12853.5	0.0	12853.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12853.5	0.0	12853.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25707.0	0.0	25707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	0.8
10°-20°	640.5	2.5
20°-30°	1065.9	4.1
30°-40°	1612.0	6.3
40°-50°	2678.7	10.4
50°-60°	5054.6	19.7
60°-70°	8535.0	33.2
70°-80°	5608.3	21.8
80°-90°	293.8	1.1
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°	25707.0	100.0
0°-180°	25707.0	100.0

Coefficient of Utilization



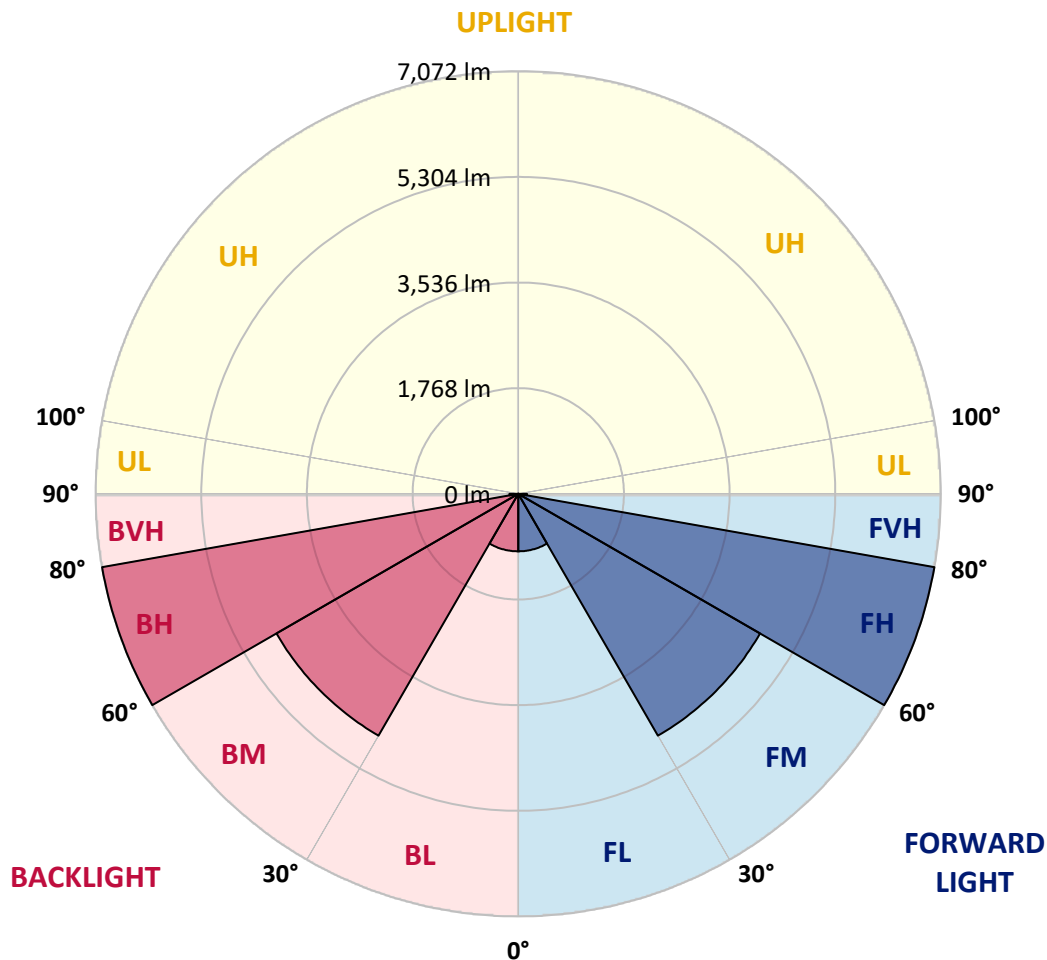
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.3	3.7			
FM (30°-60°)	4672.7	18.2			
FH (60°-80°)	7071.7	27.5			G3/7500
FVH (80°-90°)	146.9	0.6			G2/225
BL (0°-30°)	962.3	3.7	B2/1000		
BM (30°-60°)	4672.7	18.2	B3/5000		
BH (60°-80°)	7071.7	27.5	B5		G3/7500
BVH (80°-90°)	146.9	0.6			G2/225
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°	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0	2345.0
2.5°	2330.3	2337.0	2334.3	2329.0	2329.0	2324.9	2329.0	2331.7	2335.7	2338.3	2337.0
5°	2299.6	2304.9	2303.6	2299.6	2300.9	2296.9	2299.6	2303.6	2306.2	2307.6	2307.6
7.5°	2272.8	2278.2	2275.5	2268.8	2268.8	2264.8	2266.2	2270.2	2274.2	2275.5	2275.5
10°	2266.2	2271.5	2263.5	2252.8	2248.7	2243.4	2244.8	2248.7	2256.8	2260.8	2260.8
12.5°	2268.8	2272.8	2264.8	2248.7	2244.8	2239.4	2239.4	2243.4	2254.2	2259.5	2260.8
15°	2276.8	2280.8	2268.8	2251.4	2247.4	2243.4	2242.1	2247.4	2259.5	2268.8	2270.2
17.5°	2291.6	2295.6	2276.8	2252.8	2247.4	2248.7	2247.4	2251.4	2270.2	2287.5	2287.5
20°	2304.9	2307.6	2282.2	2252.8	2247.4	2248.7	2247.4	2255.5	2279.5	2303.6	2304.9
22.5°	2308.9	2311.6	2287.5	2262.2	2258.2	2259.5	2258.2	2266.2	2288.9	2312.9	2312.9
25°	2310.2	2314.2	2295.6	2275.5	2282.2	2284.8	2282.2	2283.5	2300.9	2322.2	2320.9
27.5°	2330.3	2335.7	2318.2	2300.9	2304.9	2303.6	2307.6	2311.6	2324.9	2346.3	2341.0
30°	2371.7	2375.7	2361.0	2343.7	2341.0	2331.7	2343.7	2357.0	2371.7	2390.4	2386.4
32.5°	2439.9	2447.9	2429.1	2410.5	2398.4	2393.1	2402.5	2425.1	2445.2	2465.2	2457.2
35°	2553.5	2558.8	2541.4	2506.6	2485.3	2485.3	2493.3	2522.7	2554.8	2580.1	2570.8
37.5°	2713.8	2720.5	2689.7	2648.3	2616.2	2616.2	2627.0	2657.6	2705.8	2741.9	2728.4
40°	2908.8	2918.2	2879.4	2836.7	2805.9	2800.6	2814.0	2848.8	2894.2	2939.6	2924.9
42.5°	3144.0	3154.7	3103.9	3066.5	3042.5	3042.5	3049.2	3081.3	3122.7	3178.7	3174.7
45°	3444.7	3463.4	3393.9	3356.5	3333.8	3339.1	3343.1	3371.2	3408.6	3472.7	3470.0
47.5°	3802.7	3821.5	3748.0	3709.3	3705.3	3730.6	3714.6	3734.6	3754.7	3828.2	3806.7
50°	4209.0	4241.0	4190.3	4187.6	4195.6	4242.4	4205.0	4215.6	4193.0	4239.7	4211.6
52.5°	4706.0	4752.8	4743.4	4759.5	4849.0	4945.2	4859.7	4822.3	4736.7	4751.5	4702.0
55°	5308.7	5379.5	5392.8	5489.0	5692.1	5888.5	5706.8	5555.8	5374.1	5340.8	5288.6
57.5°	5994.1	6050.3	6114.3	6310.8	6690.3	7039.0	6690.3	6356.2	6070.3	6002.1	5954.0
60°	6731.7	6801.2	6862.6	7152.6	7716.4	8206.9	7705.7	7175.3	6797.2	6704.9	6624.8
62.5°	7524.0	7613.6	7656.3	7978.3	8635.7	9221.0	8645.1	8002.4	7582.8	7483.9	7403.8
65°	8284.4	8357.8	8405.9	8749.3	9377.3	9963.9	9420.1	8786.7	8355.2	8225.5	8161.4
67.5°	8638.4	8678.5	8796.0	9184.9	9847.7	10517.1	9959.9	9226.3	8744.0	8516.8	8519.5
70°	8119.9	8038.5	8321.8	8944.4	9903.8	10856.5	10032.1	8925.7	8335.1	7966.3	8054.4
72.5°	6274.7	6134.4	6626.1	7691.1	9262.4	10640.0	9326.6	7751.2	6932.1	6183.8	6369.6
75°	3414.0	3254.9	3933.7	5280.6	7386.4	9222.3	7556.1	5431.6	4380.0	3388.5	3609.0
77.5°	963.4	903.2	1451.1	2554.8	4442.8	6475.1	4613.8	2610.9	1721.0	1020.8	1134.4
80°	295.3	286.0	387.4	769.7	1886.7	3101.2	1813.2	779.0	493.0	311.3	328.7
82.5°	175.1	160.3	192.4	280.6	481.0	974.1	467.7	292.6	235.1	157.6	171.1
85°	100.2	93.6	113.6	136.3	161.6	207.2	135.0	139.0	125.6	84.2	88.1
87.5°	41.4	37.4	44.1	42.7	37.4	48.1	36.1	42.7	50.7	33.4	30.7
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)