

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: P964986

Luminaire Tested: **NAV-SB3D-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964986  
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-SB3D-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26149.8 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

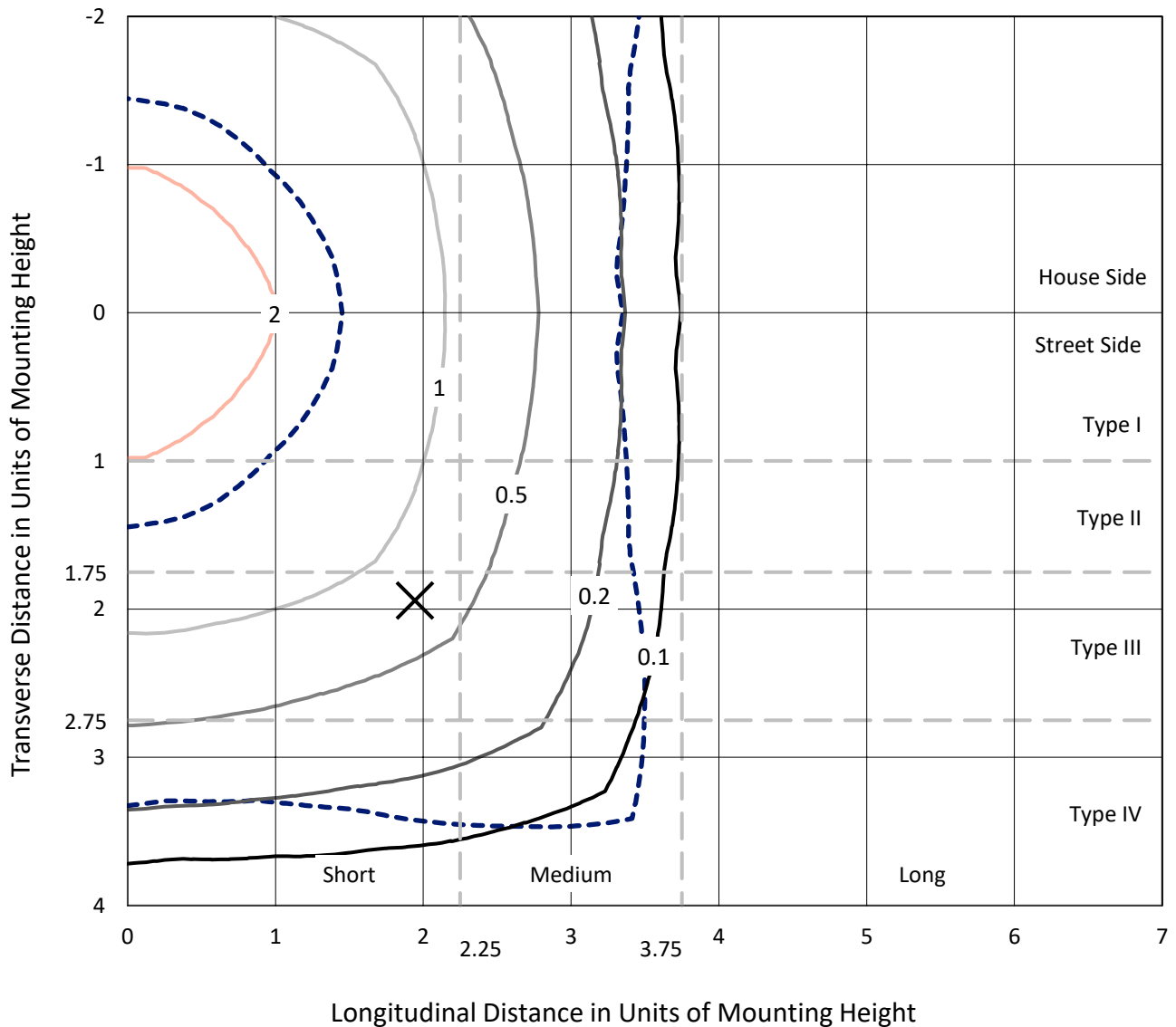
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

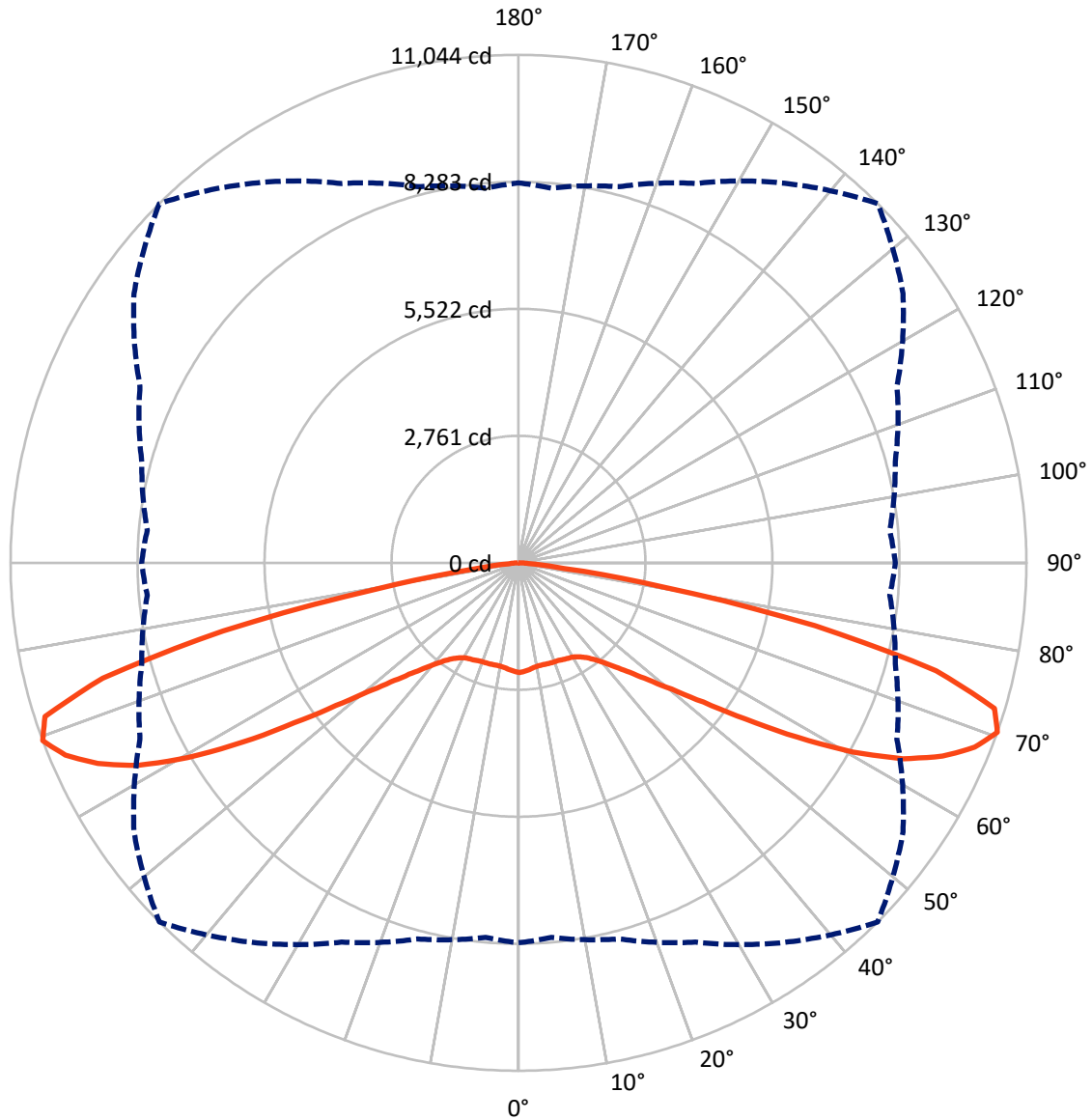
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	13074.9	0.0	13074.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13074.9	0.0	13074.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26149.8	0.0	26149.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.9	0.8
10°-20°	651.5	2.5
20°-30°	1084.3	4.1
30°-40°	1639.7	6.3
40°-50°	2724.9	10.4
50°-60°	5141.7	19.7
60°-70°	8682.0	33.2
70°-80°	5705.0	21.8
80°-90°	298.9	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°	26149.8	100.0
0°-180°	26149.8	100.0

**Coefficient of Utilization**



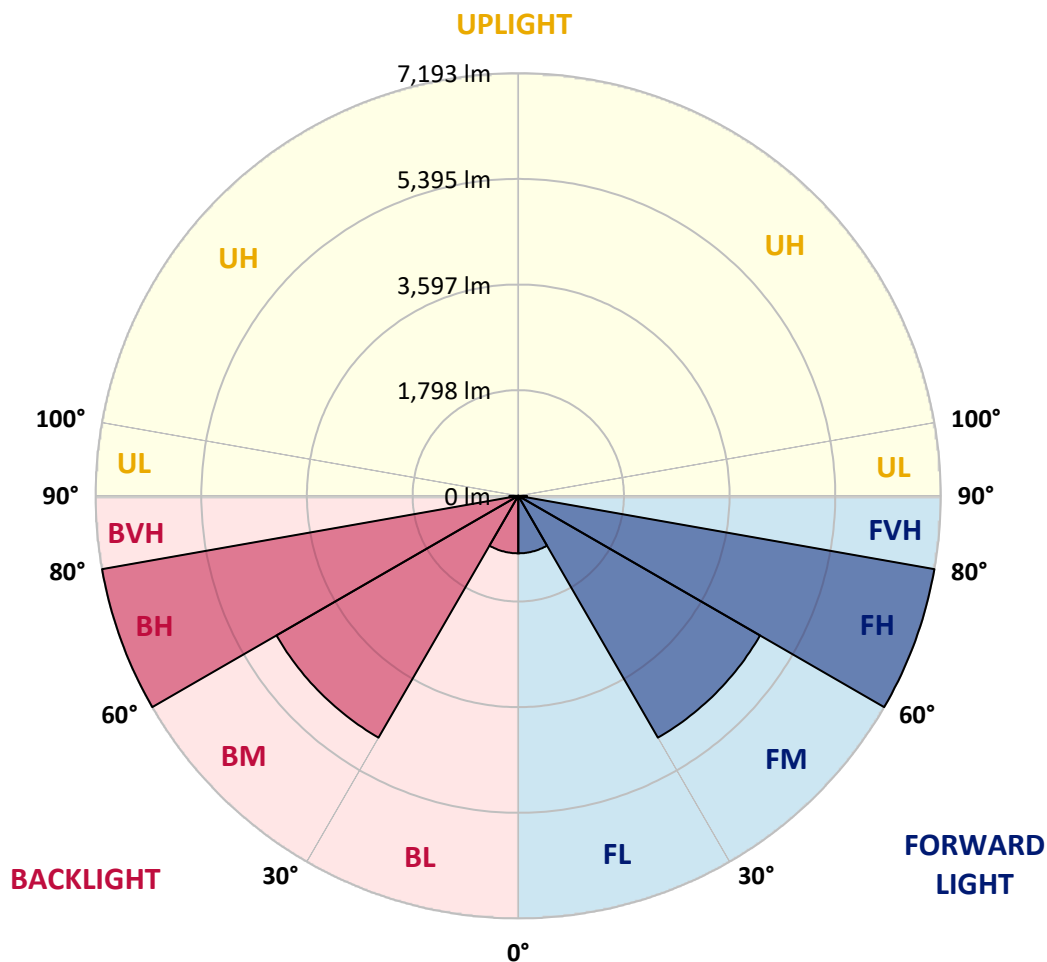
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.9	3.7			
FM (30°-60°)	4753.1	18.2			
FH (60°-80°)	7193.5	27.5			G3/7500
FVH (80°-90°)	149.4	0.6			G2/225
BL (0°-30°)	978.9	3.7	B2/1000		
BM (30°-60°)	4753.1	18.2	B3/5000		
BH (60°-80°)	7193.5	27.5	B5		G3/7500
BVH (80°-90°)	149.4	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°	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4
2.5°	2370.4	2377.3	2374.5	2369.1	2369.1	2365.0	2369.1	2371.7	2375.8	2378.6	2377.3
5°	2339.2	2344.6	2343.3	2339.2	2340.5	2336.5	2339.2	2343.3	2346.0	2347.4	2347.4
7.5°	2312.0	2317.4	2314.8	2307.9	2307.9	2303.8	2305.2	2309.2	2313.3	2314.8	2314.8
10°	2305.2	2310.7	2302.5	2291.6	2287.5	2282.1	2283.5	2287.5	2295.7	2299.8	2299.8
12.5°	2307.9	2312.0	2303.8	2287.5	2283.5	2278.1	2278.1	2282.1	2292.9	2298.4	2299.8
15°	2316.1	2320.2	2307.9	2290.3	2286.2	2282.1	2280.7	2286.2	2298.4	2307.9	2309.2
17.5°	2331.1	2335.1	2316.1	2291.6	2286.2	2287.5	2286.2	2290.3	2309.2	2327.0	2327.0
20°	2344.6	2347.4	2321.5	2291.6	2286.2	2287.5	2286.2	2294.4	2318.8	2343.3	2344.6
22.5°	2348.7	2351.5	2327.0	2301.1	2297.0	2298.4	2297.0	2305.2	2328.3	2352.8	2352.8
25°	2350.0	2354.1	2335.1	2314.8	2321.5	2324.2	2321.5	2322.9	2340.5	2362.3	2360.9
27.5°	2370.4	2375.8	2358.2	2340.5	2344.6	2343.3	2347.4	2351.5	2365.0	2386.7	2381.3
30°	2412.5	2416.6	2401.7	2384.0	2381.3	2371.7	2384.0	2397.6	2412.5	2431.6	2427.5
32.5°	2481.9	2490.0	2471.0	2452.0	2439.7	2434.3	2443.8	2467.0	2487.4	2507.8	2499.6
35°	2597.5	2602.9	2585.2	2549.9	2528.1	2528.1	2536.3	2566.2	2598.8	2624.6	2615.1
37.5°	2760.5	2767.3	2736.0	2693.9	2661.3	2661.3	2672.2	2703.4	2752.3	2789.0	2775.5
40°	2959.0	2968.5	2929.0	2885.6	2854.3	2848.9	2862.4	2897.8	2944.0	2990.2	2975.3
42.5°	3198.2	3209.1	3157.4	3119.4	3094.9	3094.9	3101.6	3134.3	3176.5	3233.6	3229.5
45°	3504.0	3523.0	3452.4	3414.3	3391.2	3396.6	3400.7	3429.2	3467.3	3532.6	3529.8
47.5°	3868.2	3887.3	3812.6	3773.1	3769.0	3794.9	3778.6	3799.0	3819.4	3894.1	3872.3
50°	4281.4	4314.1	4262.5	4259.7	4267.9	4315.5	4277.4	4288.3	4265.1	4312.7	4284.2
52.5°	4787.1	4834.6	4825.2	4841.5	4932.5	5030.4	4943.4	4905.3	4818.3	4833.3	4783.1
55°	5400.1	5472.2	5485.7	5583.6	5790.1	5990.0	5805.1	5651.5	5466.7	5432.7	5379.7
57.5°	6097.3	6154.4	6219.7	6419.5	6805.5	7160.2	6805.5	6465.7	6174.8	6105.5	6056.6
60°	6847.6	6918.3	6980.9	7275.8	7849.3	8348.2	7838.5	7298.9	6914.2	6820.5	6738.9
62.5°	7653.7	7744.7	7788.2	8115.7	8784.5	9379.8	8794.0	8140.2	7713.4	7612.9	7531.3
65°	8427.0	8501.8	8550.7	8900.0	9538.9	10135.5	9582.3	8938.1	8499.1	8367.2	8302.0
67.5°	8787.2	8828.0	8947.6	9343.1	10017.2	10698.2	10131.4	9385.2	8894.5	8663.5	8666.3
70°	8259.9	8176.9	8465.1	9098.4	10074.3	11043.5	10204.8	9079.4	8478.7	8103.5	8193.2
72.5°	6382.8	6240.1	6740.3	7823.5	9421.9	10823.3	9487.2	7884.7	7051.5	6290.3	6479.3
75°	3472.7	3311.0	4001.5	5371.5	7513.7	9381.2	7686.3	5525.2	4455.5	3446.9	3671.1
77.5°	980.0	918.8	1476.1	2598.8	4519.3	6586.6	4693.3	2655.9	1750.6	1038.4	1153.9
80°	300.4	290.9	394.2	782.9	1919.2	3154.6	1844.4	792.4	501.5	316.7	334.4
82.5°	178.0	163.1	195.8	285.5	489.3	990.9	475.7	297.7	239.2	160.4	173.9
85°	102.0	95.1	115.5	138.7	164.5	210.6	137.2	141.3	127.7	85.6	89.7
87.5°	42.1	38.0	44.9	43.5	38.0	48.9	36.7	43.5	51.7	34.0	31.3
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)