

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: P967094

Luminaire Tested: **NAV-SB4D-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967094  
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-SB4D-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 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: 34930 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

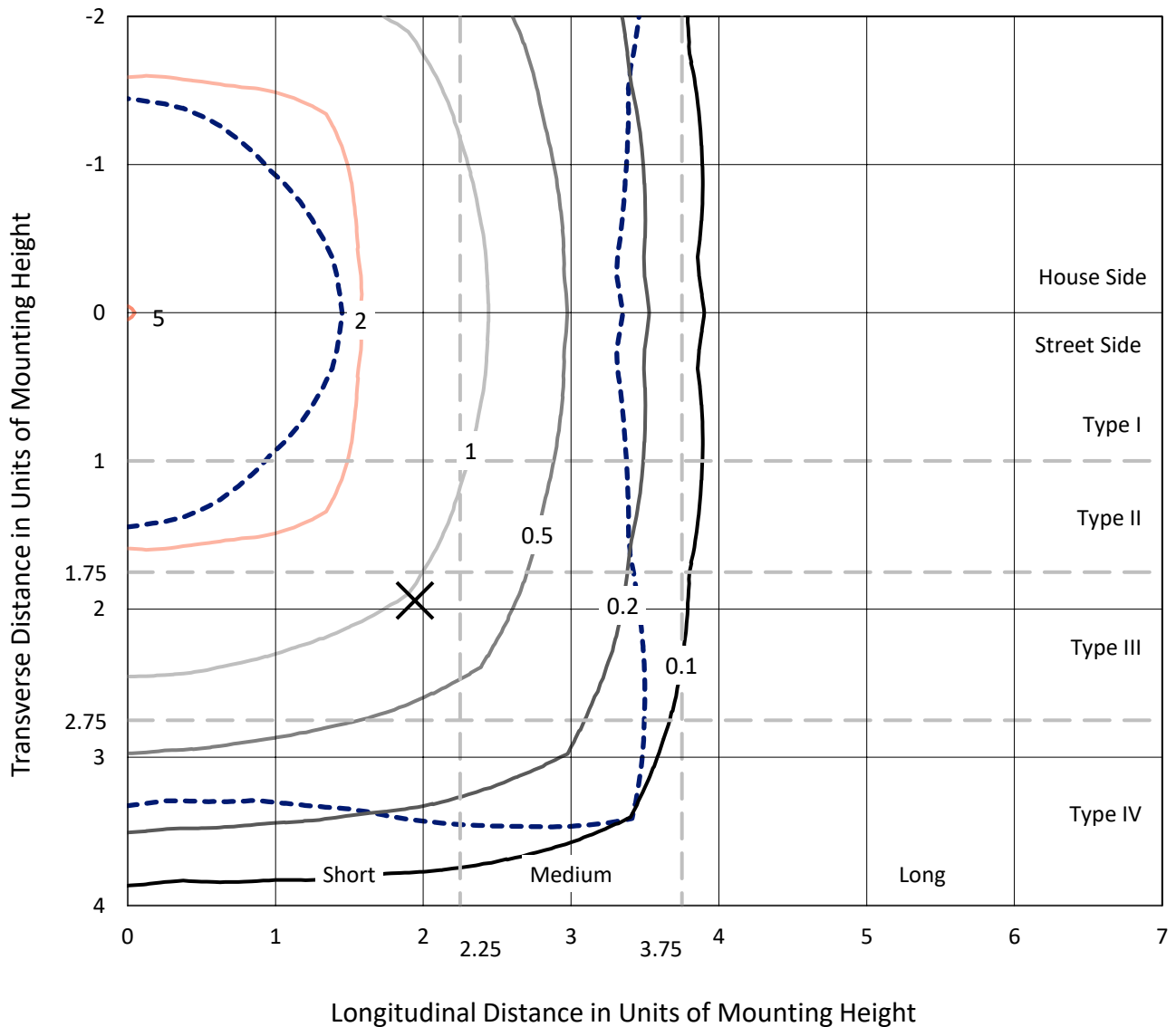
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

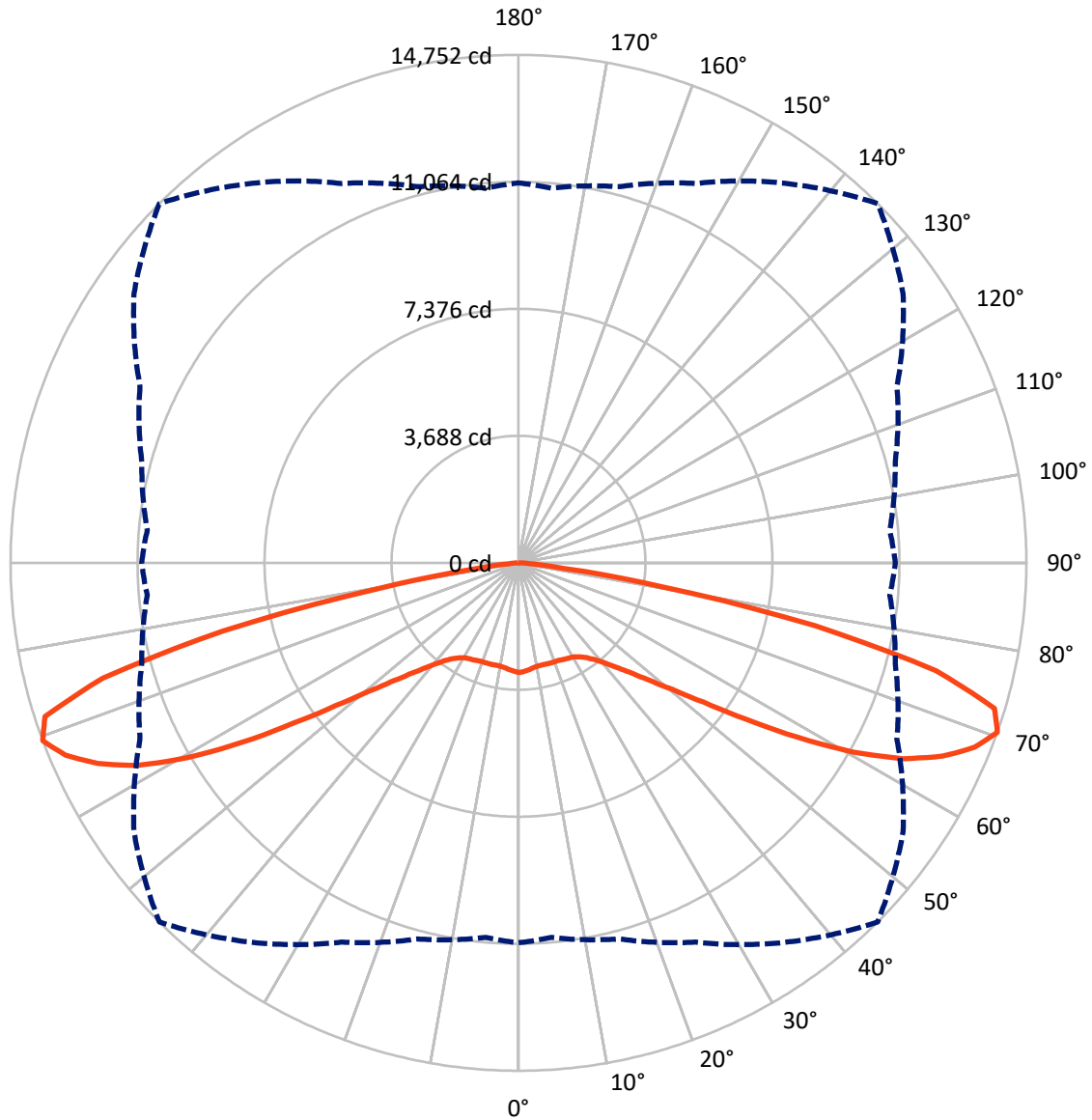
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	17465.0	0.0	17465.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17465.0	0.0	17465.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34930.0	0.0	34930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	0.8
10°-20°	870.3	2.5
20°-30°	1448.3	4.1
30°-40°	2190.3	6.3
40°-50°	3639.8	10.4
50°-60°	6868.1	19.7
60°-70°	11597.1	33.2
70°-80°	7620.5	21.8
80°-90°	399.2	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°	34930.0	100.0
0°-180°	34930.0	100.0

**Coefficient of Utilization**



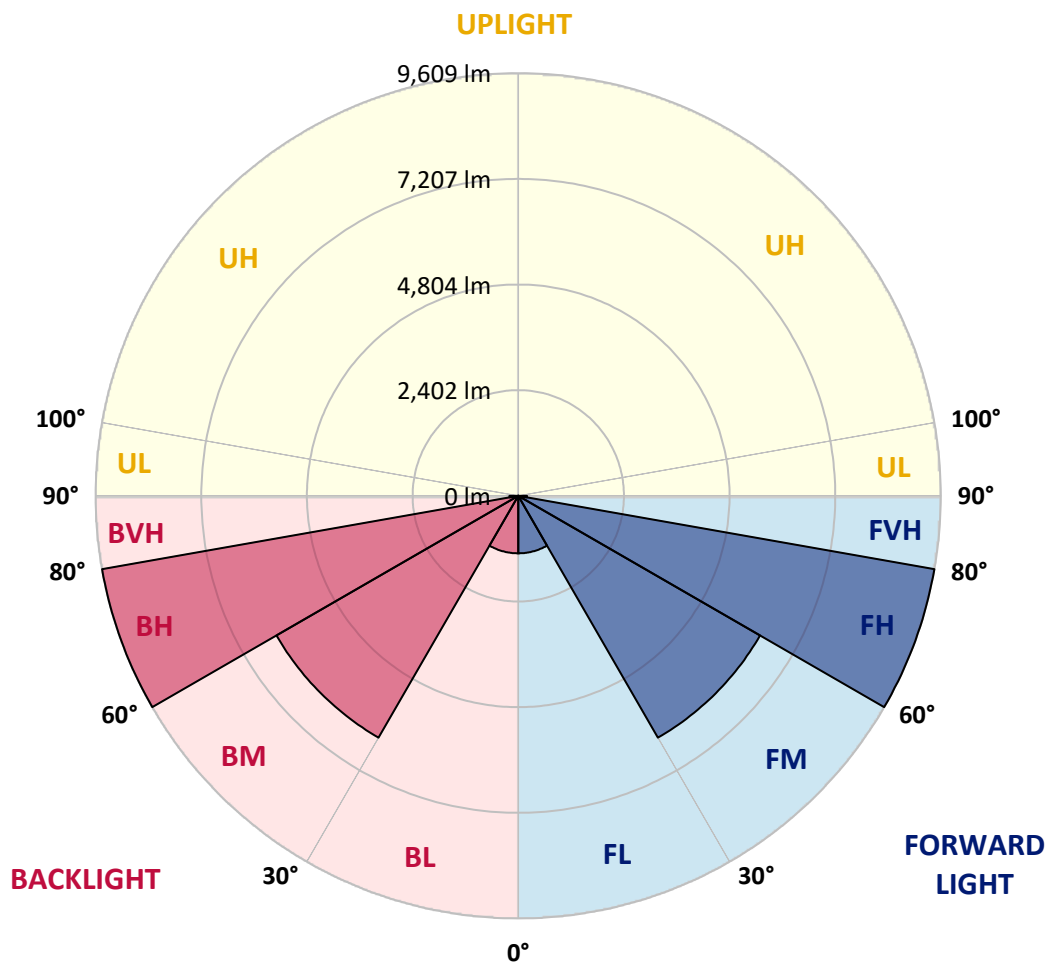
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.5	3.7			
FM (30°-60°)	6349.1	18.2			
FH (60°-80°)	9608.8	27.5			G4/12000
FVH (80°-90°)	199.6	0.6			G2/225
BL (0°-30°)	1307.5	3.7	B3/2500		
BM (30°-60°)	6349.1	18.2	B4/8500		
BH (60°-80°)	9608.8	27.5	B5		G4/12000
BVH (80°-90°)	199.6	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3	3186.3
2.5°	3166.3	3175.4	3171.8	3164.5	3164.5	3159.0	3164.5	3168.2	3173.6	3177.2	3175.4
5°	3124.6	3131.9	3130.0	3124.6	3126.4	3120.9	3124.6	3130.0	3133.6	3135.5	3135.5
7.5°	3088.3	3095.5	3091.9	3082.8	3082.8	3077.4	3079.2	3084.6	3090.1	3091.9	3091.9
10°	3079.2	3086.5	3075.6	3061.1	3055.6	3048.4	3050.2	3055.6	3066.5	3071.9	3071.9
12.5°	3082.8	3088.3	3077.4	3055.6	3050.2	3042.9	3042.9	3048.4	3062.9	3070.1	3071.9
15°	3093.8	3099.2	3082.8	3059.2	3053.8	3048.4	3046.5	3053.8	3070.1	3082.8	3084.6
17.5°	3113.6	3119.2	3093.8	3061.1	3053.8	3055.6	3053.8	3059.2	3084.6	3108.2	3108.2
20°	3131.9	3135.5	3100.9	3061.1	3053.8	3055.6	3053.8	3064.6	3097.3	3130.0	3131.9
22.5°	3137.3	3140.9	3108.2	3073.8	3068.3	3070.1	3068.3	3079.2	3110.1	3142.8	3142.8
25°	3139.1	3144.6	3119.2	3091.9	3100.9	3104.6	3100.9	3102.8	3126.4	3155.5	3153.6
27.5°	3166.3	3173.6	3150.0	3126.4	3131.9	3130.0	3135.5	3140.9	3159.0	3188.2	3180.9
30°	3222.6	3228.0	3208.1	3184.5	3180.9	3168.2	3184.5	3202.6	3222.6	3248.0	3242.6
32.5°	3315.3	3326.1	3300.7	3275.3	3259.0	3251.7	3264.4	3295.3	3322.4	3349.7	3338.8
35°	3469.5	3476.8	3453.2	3406.0	3377.0	3377.0	3387.8	3427.8	3471.4	3505.8	3493.1
37.5°	3687.4	3696.5	3654.7	3598.5	3554.9	3554.9	3569.4	3611.2	3676.5	3725.6	3707.4
40°	3952.5	3965.2	3912.5	3854.4	3812.7	3805.4	3823.6	3870.8	3932.5	3994.2	3974.2
42.5°	4272.0	4286.5	4217.6	4166.7	4134.0	4134.0	4143.2	4186.7	4243.0	4319.2	4313.8
45°	4680.6	4706.0	4611.6	4560.7	4529.8	4537.1	4542.5	4580.6	4631.5	4718.7	4715.0
47.5°	5167.1	5192.5	5092.6	5040.0	5034.6	5069.0	5047.3	5074.5	5101.7	5201.6	5172.6
50°	5719.0	5762.5	5693.6	5690.0	5700.8	5764.4	5713.6	5728.1	5697.3	5760.8	5722.7
52.5°	6394.5	6457.9	6445.3	6467.0	6588.7	6719.4	6603.3	6552.4	6436.2	6456.2	6388.9
55°	7213.2	7309.5	7327.6	7458.3	7734.3	8001.2	7754.2	7549.1	7302.2	7256.8	7186.0
57.5°	8144.6	8220.9	8308.0	8574.9	9090.5	9564.4	9090.5	8636.6	8248.1	8155.5	8090.1
60°	9146.8	9241.2	9324.7	9718.7	10484.9	11151.2	10470.4	9749.6	9235.8	9110.5	9001.6
62.5°	10223.5	10345.1	10403.1	10840.7	11734.0	12529.2	11746.7	10873.4	10303.3	10168.9	10060.1
65°	11256.4	11356.4	11421.7	11888.4	12741.7	13538.6	12799.7	11939.1	11352.7	11176.6	11089.5
67.5°	11737.6	11792.1	11951.8	12480.2	13380.7	14290.3	13533.2	12536.5	11881.1	11572.5	11576.0
70°	11033.2	10922.4	11307.3	12153.4	13456.9	14751.5	13631.3	12128.0	11325.5	10824.4	10944.2
72.5°	8525.8	8335.3	9003.4	10450.4	12585.5	14457.3	12672.6	10532.1	9419.1	8402.4	8654.8
75°	4638.7	4422.7	5345.1	7175.1	10036.4	12531.0	10267.0	7380.3	5951.5	4604.3	4903.8
77.5°	1309.0	1227.3	1971.7	3471.4	6036.7	8798.2	6269.1	3547.6	2338.4	1387.1	1541.4
80°	401.3	388.6	526.5	1045.8	2563.6	4213.9	2463.7	1058.5	669.9	423.0	446.6
82.5°	237.8	217.9	261.5	381.3	653.6	1323.6	635.4	397.6	319.5	214.2	232.4
85°	136.1	127.1	154.4	185.2	219.7	281.4	183.4	188.8	170.7	114.4	119.8
87.5°	56.3	50.8	60.0	58.1	50.8	65.4	49.0	58.1	69.0	45.4	41.7
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)