

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: P964458

Luminaire Tested: **NAV-SB3C-722-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964458  
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-SB3C-722-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19937.3 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

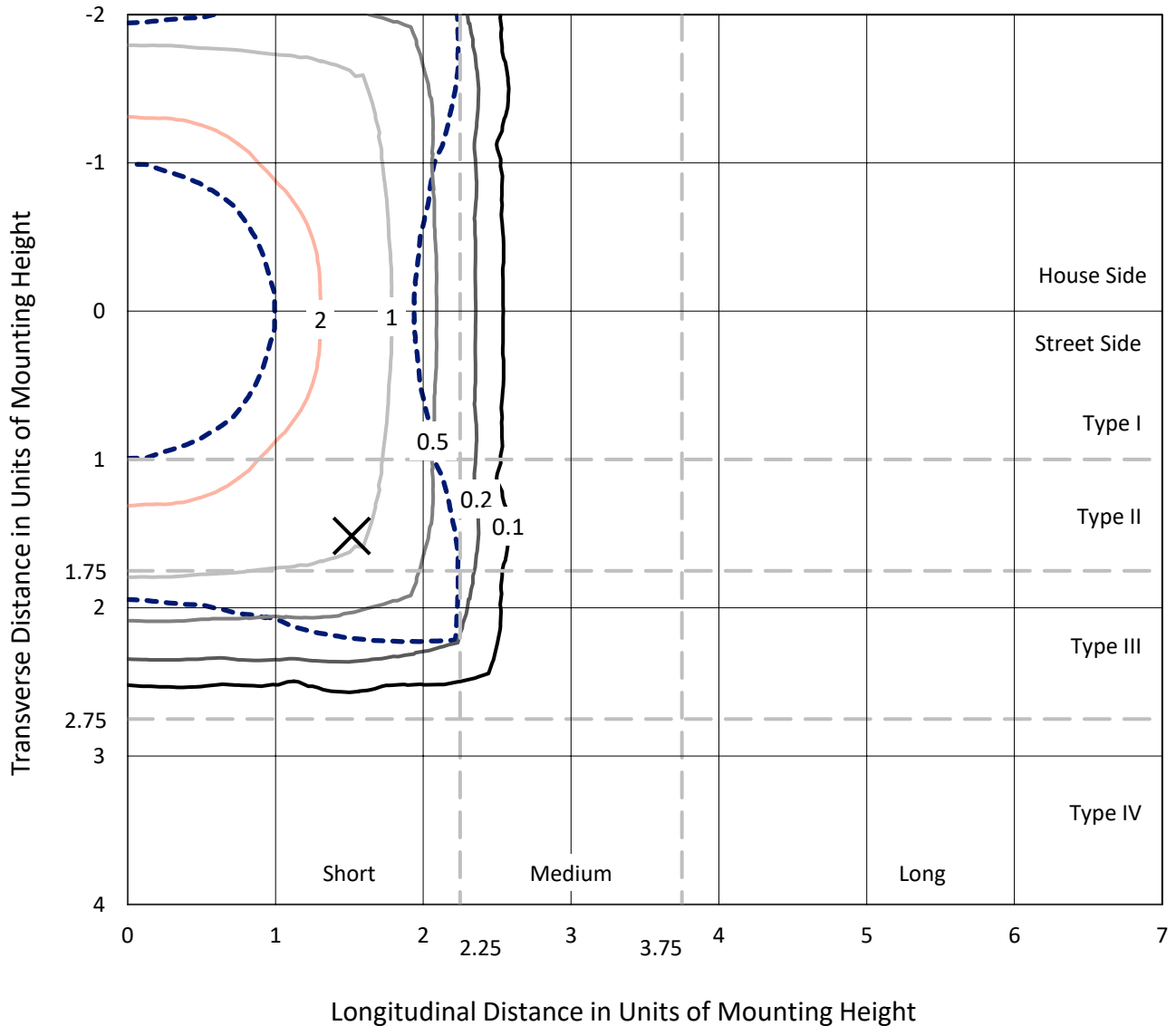
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

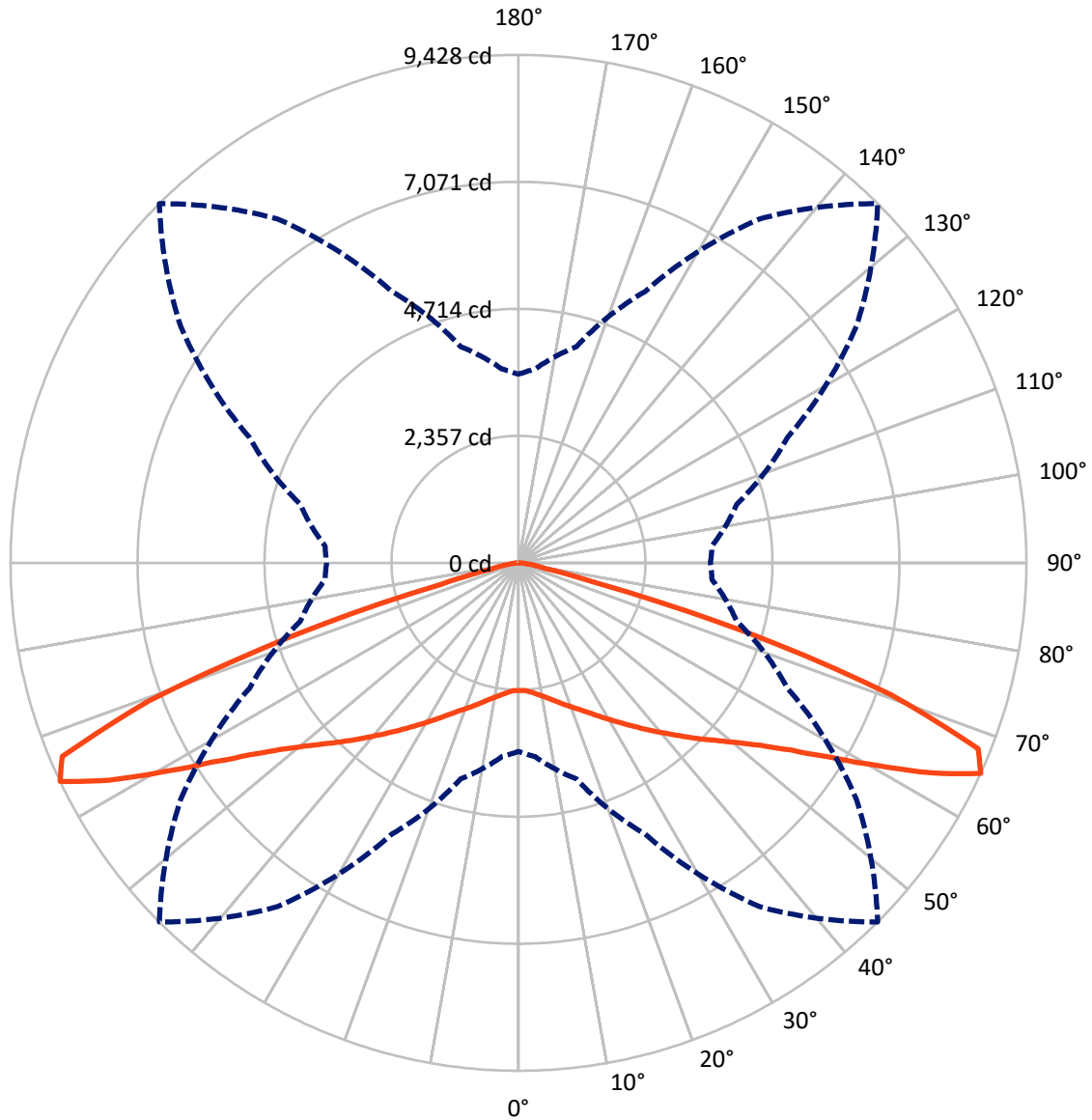
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	9968.6	0.0	9968.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9968.6	0.0	9968.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19937.3	0.0	19937.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	1.2
10°-20°	764.1	3.8
20°-30°	1442.7	7.2
30°-40°	2362.4	11.8
40°-50°	3662.9	18.4
50°-60°	5410.9	27.1
60°-70°	5150.6	25.8
70°-80°	831.1	4.2
80°-90°	78.3	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°	19937.3	100.0
0°-180°	19937.3	100.0

**Coefficient of Utilization**



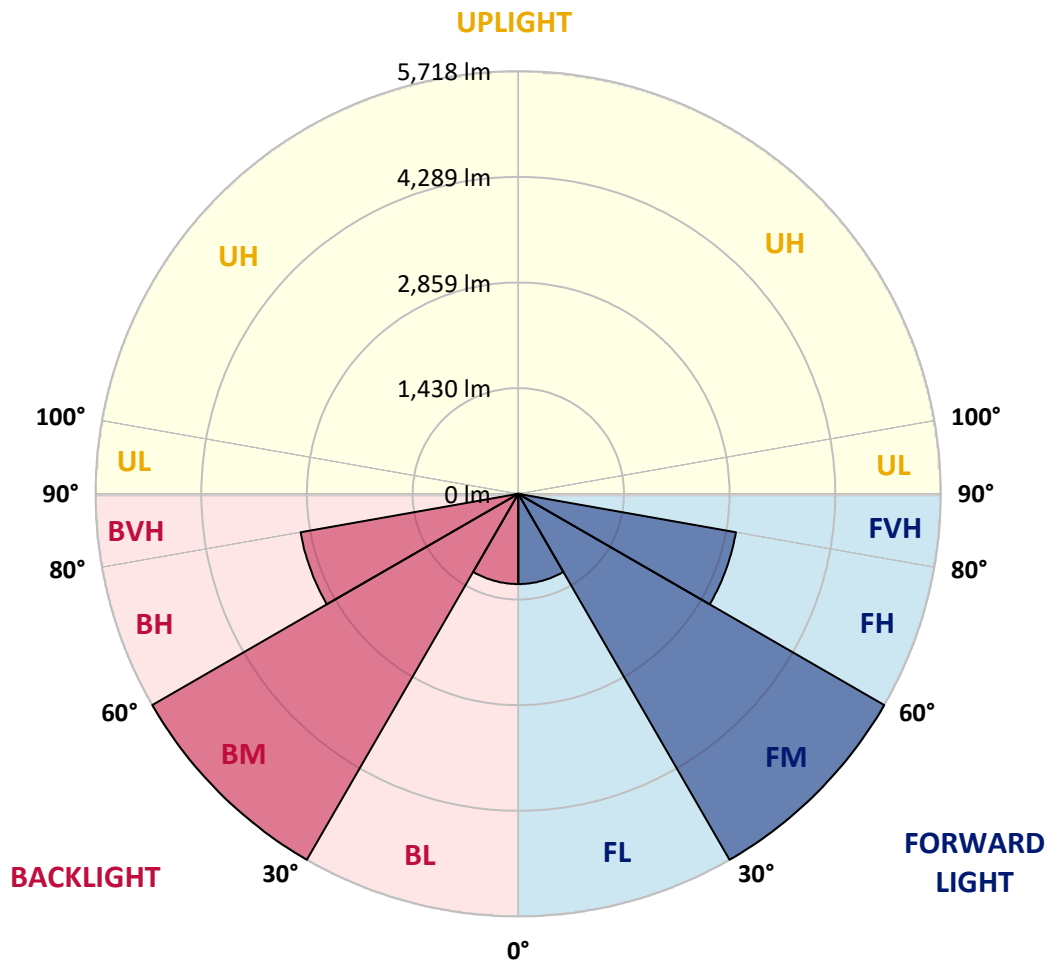
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.5	6.1			
FM (30°-60°)	5718.1	28.7			
FH (60°-80°)	2990.9	15.0			G2/5000
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1220.5	6.1	B3/2500		
BM (30°-60°)	5718.1	28.7	B4/8500		
BH (60°-80°)	2990.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	39.2	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°	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8	2372.8
2.5°	2388.8	2380.8	2386.7	2381.7	2377.7	2373.7	2375.7	2382.7	2385.8	2386.7	2386.7
5°	2420.7	2413.8	2416.7	2416.7	2409.8	2407.7	2408.8	2413.8	2419.7	2419.7	2419.7
7.5°	2472.8	2465.7	2472.8	2468.8	2462.8	2460.7	2459.8	2463.8	2472.8	2472.8	2469.7
10°	2535.7	2527.8	2531.8	2529.8	2522.8	2519.8	2518.7	2524.8	2532.8	2531.8	2529.8
12.5°	2604.8	2595.8	2600.8	2594.8	2592.8	2589.8	2589.8	2588.8	2593.8	2589.8	2591.8
15°	2681.8	2675.9	2677.8	2673.8	2676.8	2674.8	2666.8	2662.8	2664.8	2658.8	2659.9
17.5°	2772.8	2758.9	2765.9	2763.8	2763.8	2767.8	2754.9	2749.9	2753.9	2747.8	2752.8
20°	2877.9	2863.8	2866.9	2862.9	2857.9	2861.9	2845.9	2849.9	2852.9	2848.9	2857.9
22.5°	2992.9	2975.0	2973.9	2975.9	2964.9	2965.9	2954.9	2964.9	2971.0	2959.9	2971.0
25°	3111.0	3091.9	3104.9	3100.0	3086.0	3088.9	3080.9	3091.0	3095.9	3082.0	3098.0
27.5°	3236.0	3223.0	3235.0	3238.0	3221.0	3233.0	3221.0	3230.0	3235.0	3214.0	3230.0
30°	3382.1	3369.1	3380.0	3388.0	3368.0	3387.0	3377.1	3383.0	3384.0	3359.0	3374.1
32.5°	3541.1	3521.1	3549.1	3553.1	3531.1	3554.1	3541.1	3549.1	3554.1	3520.1	3543.1
35°	3735.2	3710.2	3742.2	3737.2	3718.2	3737.2	3725.2	3737.2	3749.1	3708.1	3733.2
37.5°	3944.2	3918.2	3952.2	3943.2	3925.2	3938.3	3931.2	3939.2	3958.2	3914.2	3941.2
40°	4174.3	4142.3	4188.3	4172.3	4155.2	4153.3	4157.3	4162.3	4187.3	4138.2	4154.3
42.5°	4420.4	4386.4	4455.4	4430.4	4406.4	4390.4	4403.4	4413.3	4437.3	4382.4	4411.4
45°	4701.5	4662.4	4752.5	4722.5	4684.5	4651.4	4672.5	4687.4	4722.5	4656.5	4690.5
47.5°	5011.5	4967.6	5063.6	5054.6	4992.6	4920.5	4968.6	5011.5	5037.6	4957.5	4984.6
50°	5314.6	5280.6	5406.7	5417.6	5341.7	5240.6	5307.7	5372.6	5379.7	5274.6	5287.7
52.5°	5598.8	5564.7	5747.8	5816.8	5748.8	5628.8	5699.7	5765.8	5712.7	5576.7	5580.7
55°	5825.8	5797.8	6030.9	6208.9	6231.9	6132.9	6174.9	6173.0	5998.8	5789.8	5796.8
57.5°	5880.8	5876.8	6170.9	6548.0	6788.1	6800.2	6717.0	6505.1	6129.9	5848.9	5830.8
60°	5630.7	5655.7	6059.9	6725.1	7365.2	7631.3	7272.3	6667.1	5980.9	5590.8	5544.7
62.5°	4882.5	4948.5	5435.7	6509.1	7831.4	8587.7	7717.4	6421.0	5368.6	4859.5	4829.5
65°	3499.0	3614.2	4152.3	5554.7	7789.4	9427.9	7653.4	5509.7	4192.2	3605.1	3562.1
67.5°	1587.5	1704.6	2161.6	3803.2	6771.0	9199.9	6755.1	3843.2	2269.7	1710.5	1685.5
70°	575.1	595.2	742.2	1522.4	4327.3	7330.3	4512.4	1533.5	789.2	634.2	626.2
72.5°	348.1	351.1	382.1	545.2	1503.5	4450.3	1567.5	563.1	390.1	346.1	352.1
75°	221.1	219.0	272.0	333.1	533.2	1501.4	559.1	333.1	271.1	247.1	249.1
77.5°	159.1	164.0	195.1	249.1	336.1	509.1	330.2	238.1	195.1	160.0	163.1
80°	119.0	122.1	142.1	194.0	236.1	317.1	210.0	176.1	147.1	100.0	103.0
82.5°	86.0	86.0	93.1	141.0	144.0	171.1	114.1	124.0	97.1	71.0	71.0
85°	51.0	50.0	58.0	84.0	75.0	63.0	52.0	76.1	61.0	44.0	43.0
87.5°	18.0	19.0	18.0	24.0	20.0	17.0	16.0	21.0	17.0	15.0	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)