

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: P966565

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4C-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26615.2 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

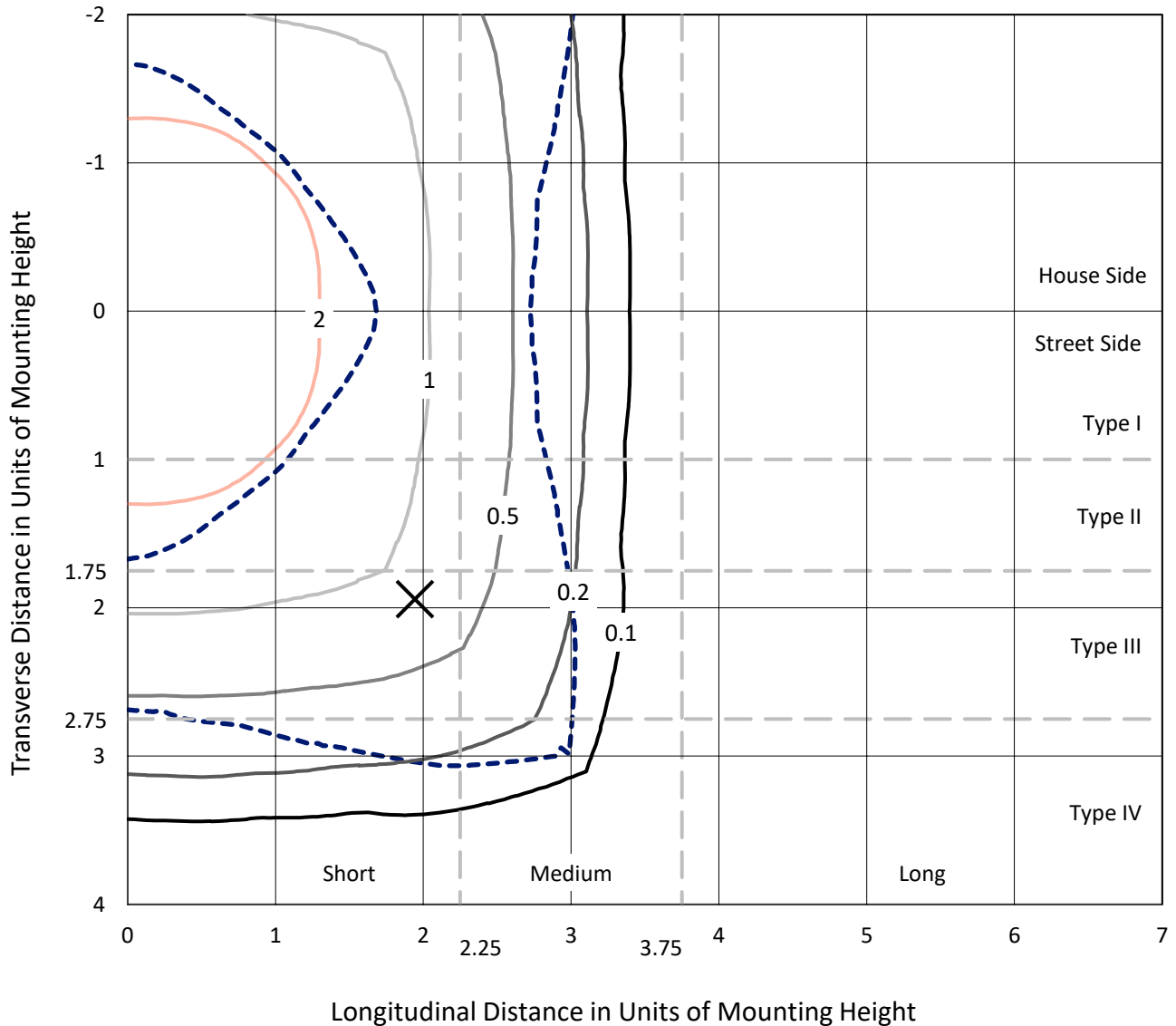
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

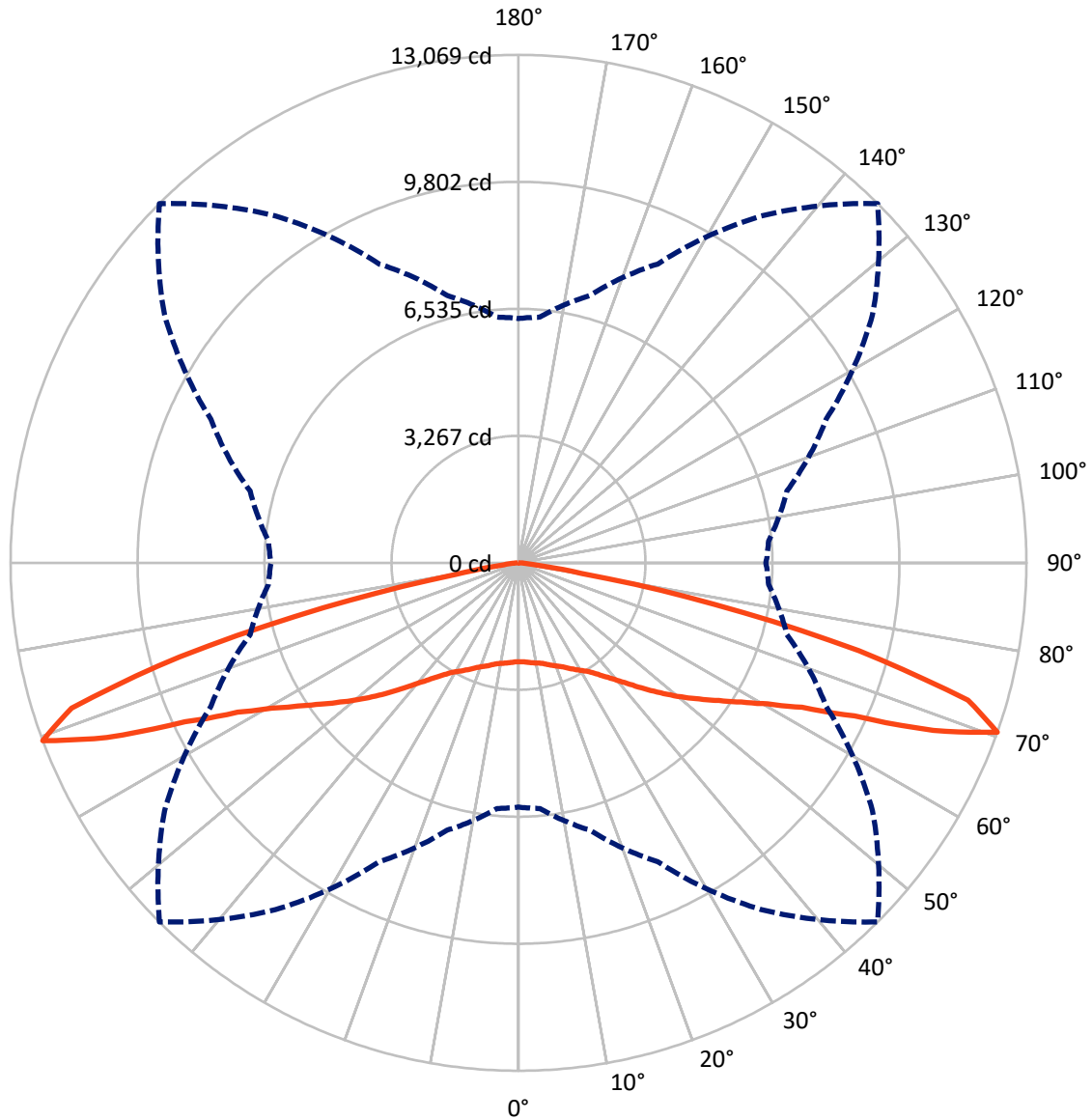
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	13307.6	0.0	13307.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13307.6	0.0	13307.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26615.2	0.0	26615.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.7	0.9
10°-20°	768.0	2.9
20°-30°	1372.5	5.2
30°-40°	2224.9	8.4
40°-50°	3624.0	13.6
50°-60°	5525.4	20.8
60°-70°	8220.0	30.9
70°-80°	4480.1	16.8
80°-90°	152.6	0.6
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°	26615.2	100.0
0°-180°	26615.2	100.0

**Coefficient of Utilization**



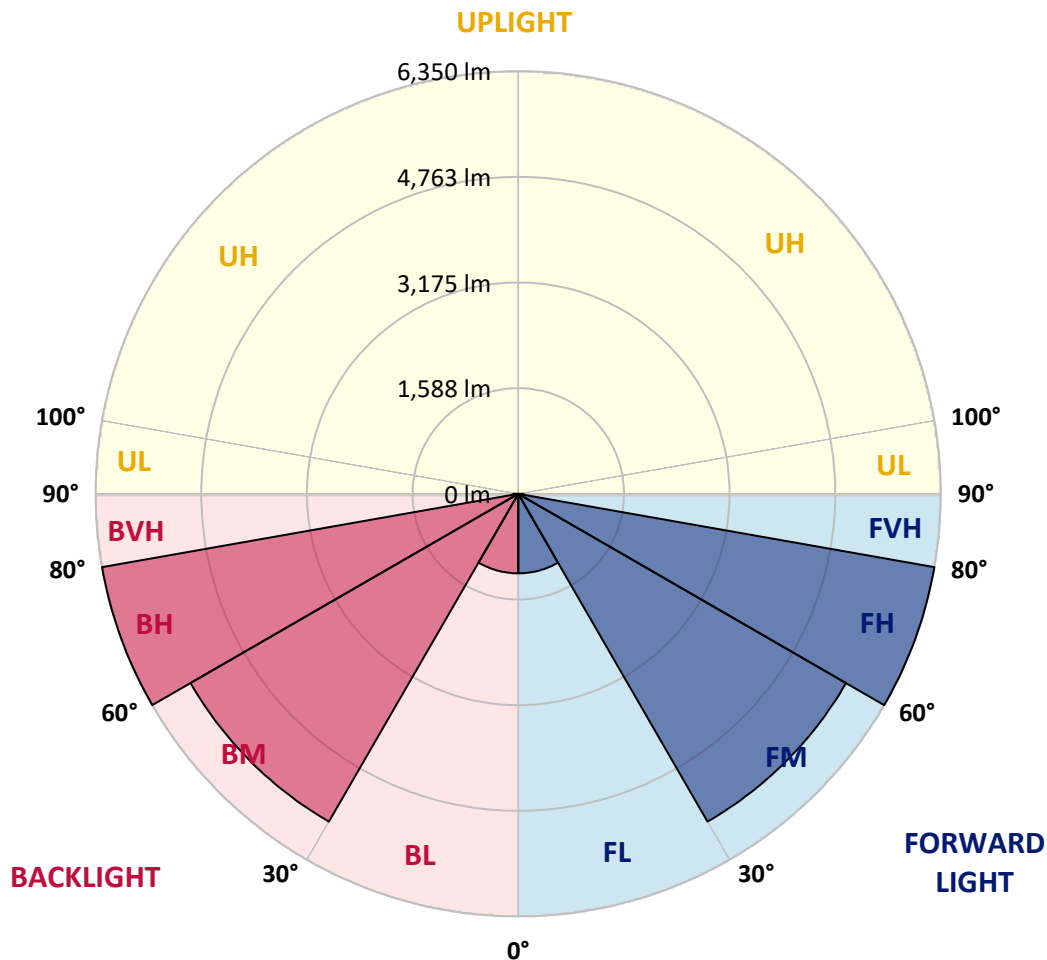
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.1	4.5			
FM (30°-60°)	5687.1	21.4			
FH (60°-80°)	6350.1	23.9			G3/7500
FVH (80°-90°)	76.3	0.3			G1/100
BL (0°-30°)	1194.1	4.5	B3/2500		
BM (30°-60°)	5687.1	21.4	B4/8500		
BH (60°-80°)	6350.1	23.9	B5		G3/7500
BVH (80°-90°)	76.3	0.3			G1/100
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°	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5	2549.5
2.5°	2561.5	2564.1	2558.8	2556.1	2553.5	2549.5	2550.8	2557.5	2562.8	2561.5	2562.8
5°	2582.9	2585.6	2581.6	2580.2	2574.8	2573.5	2573.5	2580.2	2584.2	2581.6	2582.9
7.5°	2606.9	2610.9	2604.2	2602.9	2600.2	2597.6	2596.2	2602.9	2606.9	2606.9	2606.9
10°	2629.6	2633.6	2628.3	2624.3	2621.6	2621.6	2619.0	2624.3	2631.0	2629.6	2629.6
12.5°	2653.7	2656.4	2651.0	2648.3	2648.3	2652.4	2648.3	2651.0	2656.4	2653.7	2652.4
15°	2683.0	2684.4	2683.0	2687.0	2693.8	2707.1	2695.1	2692.5	2695.1	2688.4	2688.4
17.5°	2723.1	2725.8	2731.2	2740.5	2749.9	2774.0	2752.5	2745.9	2745.9	2732.5	2732.5
20°	2772.6	2776.6	2784.6	2800.7	2812.7	2835.4	2814.0	2804.7	2800.7	2783.3	2783.3
22.5°	2824.7	2831.4	2843.5	2864.8	2886.2	2907.5	2886.2	2870.1	2858.1	2835.4	2834.0
25°	2884.9	2892.9	2911.6	2946.3	2975.7	3006.4	2981.0	2949.0	2924.9	2892.9	2891.5
27.5°	2970.3	2979.7	3002.4	3045.2	3082.6	3109.3	3085.2	3043.8	3010.4	2971.7	2970.3
30°	3090.6	3100.0	3126.7	3172.2	3197.5	3214.9	3198.8	3166.7	3126.7	3082.6	3082.6
32.5°	3245.7	3257.7	3287.1	3329.8	3335.1	3337.8	3332.5	3316.4	3287.1	3233.6	3234.9
35°	3442.1	3455.4	3488.8	3523.5	3518.2	3523.5	3515.5	3510.2	3488.8	3427.3	3427.3
37.5°	3682.5	3698.6	3733.4	3760.0	3746.7	3740.0	3741.4	3742.7	3730.7	3662.5	3662.5
40°	3961.8	3983.2	4008.6	4036.7	4013.9	3993.9	4007.2	4017.9	4007.2	3937.7	3937.7
42.5°	4249.1	4279.8	4306.5	4346.6	4328.0	4302.5	4321.3	4333.3	4310.5	4235.7	4241.0
45°	4568.4	4597.8	4632.6	4692.8	4679.3	4652.6	4679.3	4682.0	4643.2	4555.1	4564.4
47.5°	4898.5	4929.2	4981.3	5061.4	5056.1	5026.8	5061.4	5042.8	4993.4	4887.8	4881.2
50°	5211.2	5253.9	5334.1	5446.3	5457.0	5420.9	5467.7	5431.6	5348.8	5216.5	5213.9
52.5°	5505.1	5550.6	5677.5	5829.8	5868.5	5821.8	5884.6	5821.8	5697.6	5527.8	5511.8
55°	5813.8	5864.5	6015.5	6214.7	6292.2	6257.4	6316.2	6221.3	6044.9	5839.1	5811.1
57.5°	6177.3	6207.9	6388.3	6624.9	6755.8	6763.8	6790.5	6630.2	6416.4	6182.6	6150.5
60°	6571.4	6614.1	6810.6	7093.8	7301.0	7367.8	7339.7	7101.8	6853.4	6584.8	6542.0
62.5°	7076.5	7123.2	7358.4	7697.9	8025.1	8190.9	8081.3	7736.6	7429.2	7107.2	7051.1
65°	7494.7	7546.8	7971.7	8577.0	9172.9	9505.6	9230.4	8595.8	8042.6	7588.3	7513.5
67.5°	7191.4	7255.6	7922.3	9034.0	10515.9	11508.6	10566.6	9170.3	8086.6	7470.6	7378.5
70°	6285.4	6345.6	7123.2	8482.2	10894.0	13069.3	11121.1	8732.0	7148.7	6459.1	6367.0
72.5°	4173.0	4366.7	5153.7	6783.9	9727.5	12093.9	9823.7	6646.2	4780.9	4163.5	4028.7
75°	1384.3	1539.3	2076.4	3516.9	6515.3	9044.7	6202.6	3112.0	1644.8	1183.9	1119.7
77.5°	348.7	402.2	554.5	1006.1	2598.9	5149.7	2339.7	821.7	447.6	312.6	279.3
80°	169.7	187.1	267.2	335.4	650.8	1636.8	610.6	315.4	211.2	163.0	149.6
82.5°	93.6	94.9	151.0	189.7	241.9	423.5	251.2	184.4	121.6	98.9	98.9
85°	57.5	56.2	80.2	101.6	101.6	151.0	120.2	101.6	69.5	61.5	64.2
87.5°	22.8	22.8	29.4	32.1	28.1	38.7	30.7	33.4	26.8	25.4	26.8
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)