

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: P884962

Luminaire Tested: **NAV-SB6A-740-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-740-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

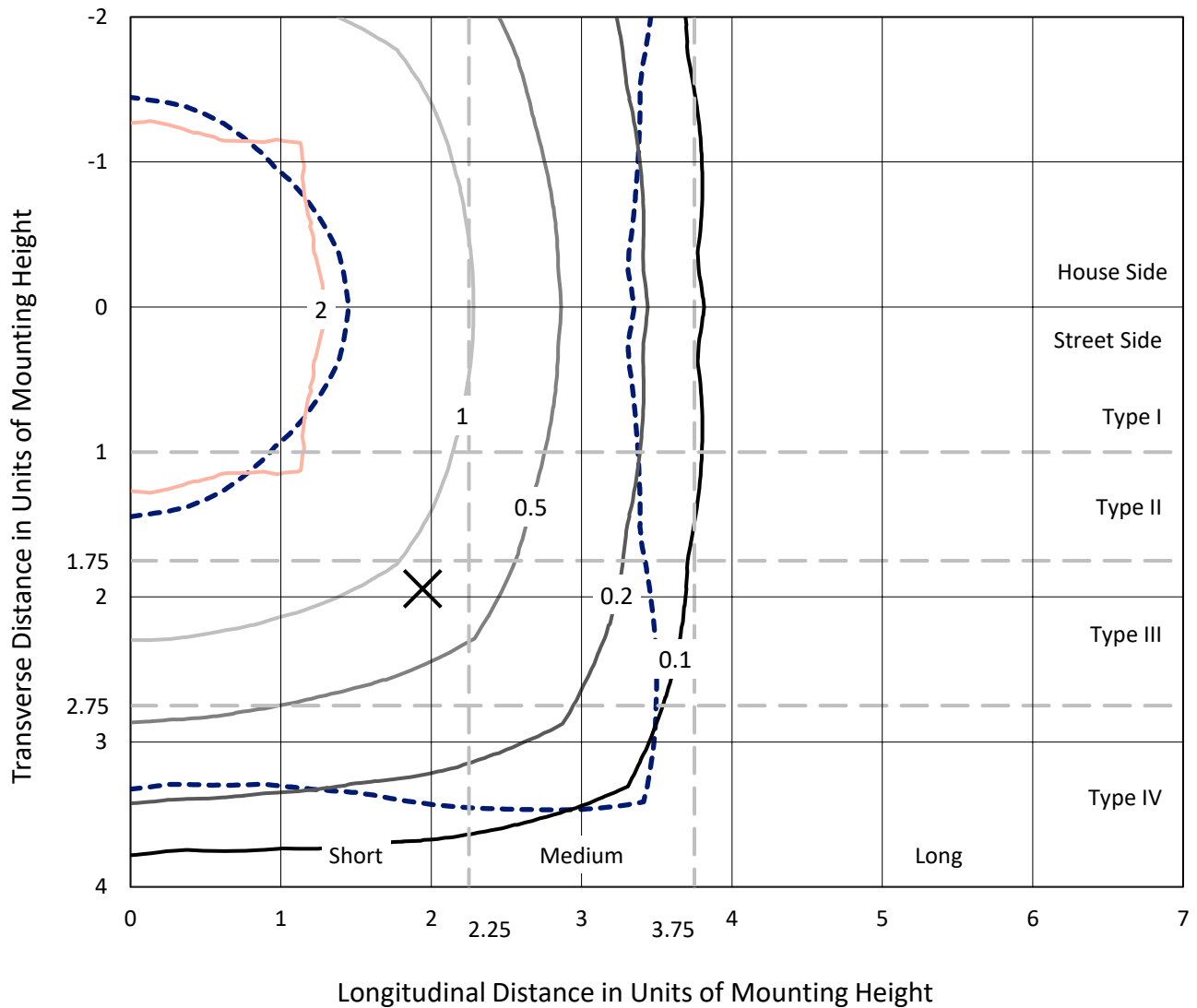
Lumens per Lamp: N/A  
Luminaire Lumens: 29692 lumens  
Efficiency: N/A  
Efficacy: 173.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

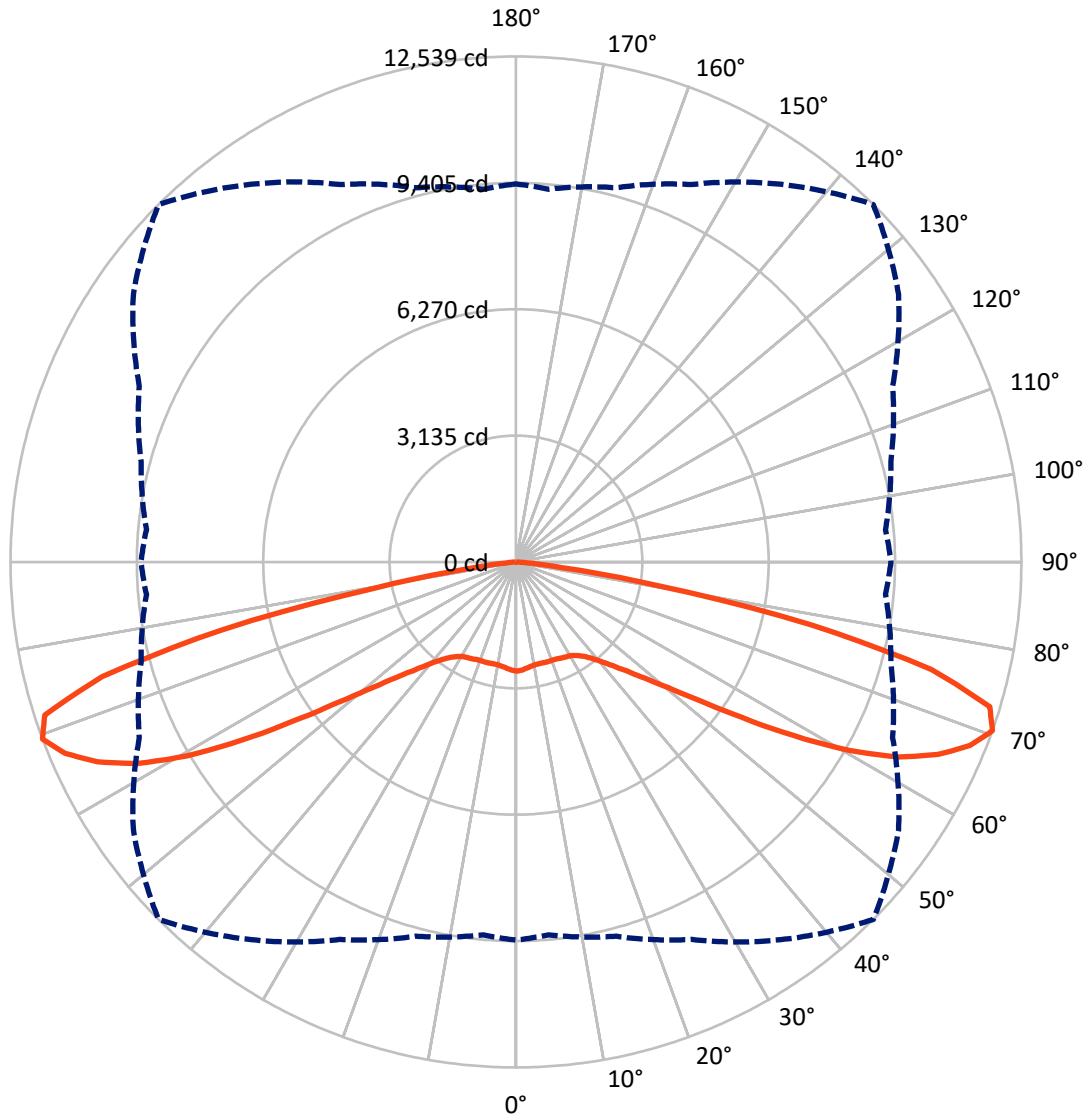
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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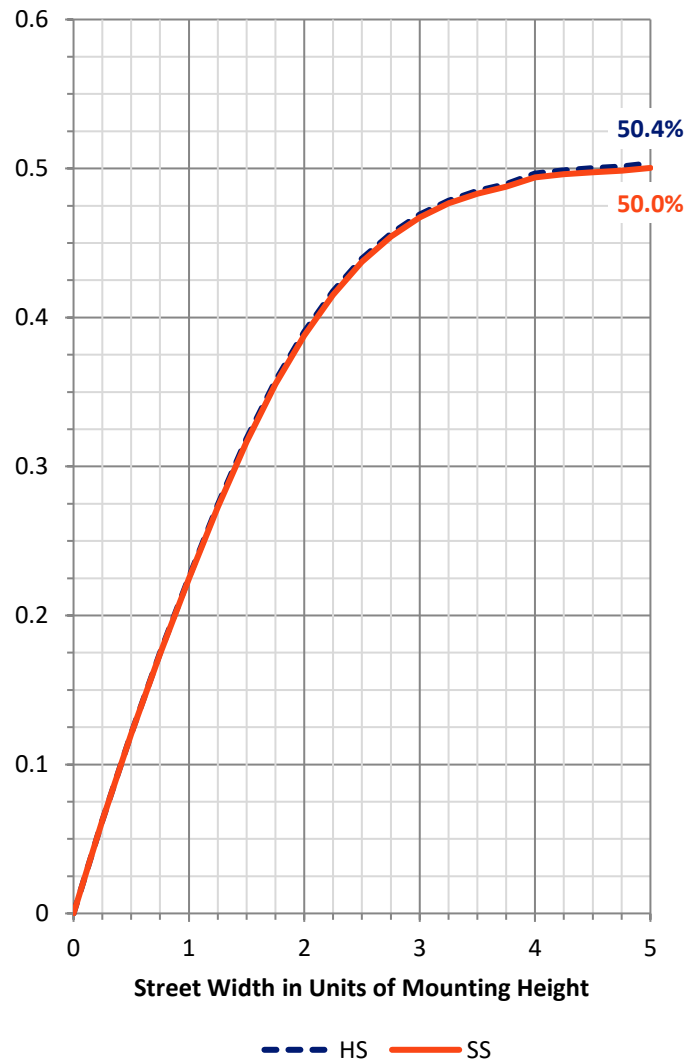
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14846.0	0.0	14846.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14846.0	0.0	14846.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29692.0	0.0	29692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	0.8
10°-20°	739.8	2.5
20°-30°	1231.1	4.1
30°-40°	1861.9	6.3
40°-50°	3094.0	10.4
50°-60°	5838.2	19.7
60°-70°	9858.0	33.2
70°-80°	6477.7	21.8
80°-90°	339.4	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°	29692.0	100.0
0°-180°	29692.0	100.0

**Coefficient of Utilization**



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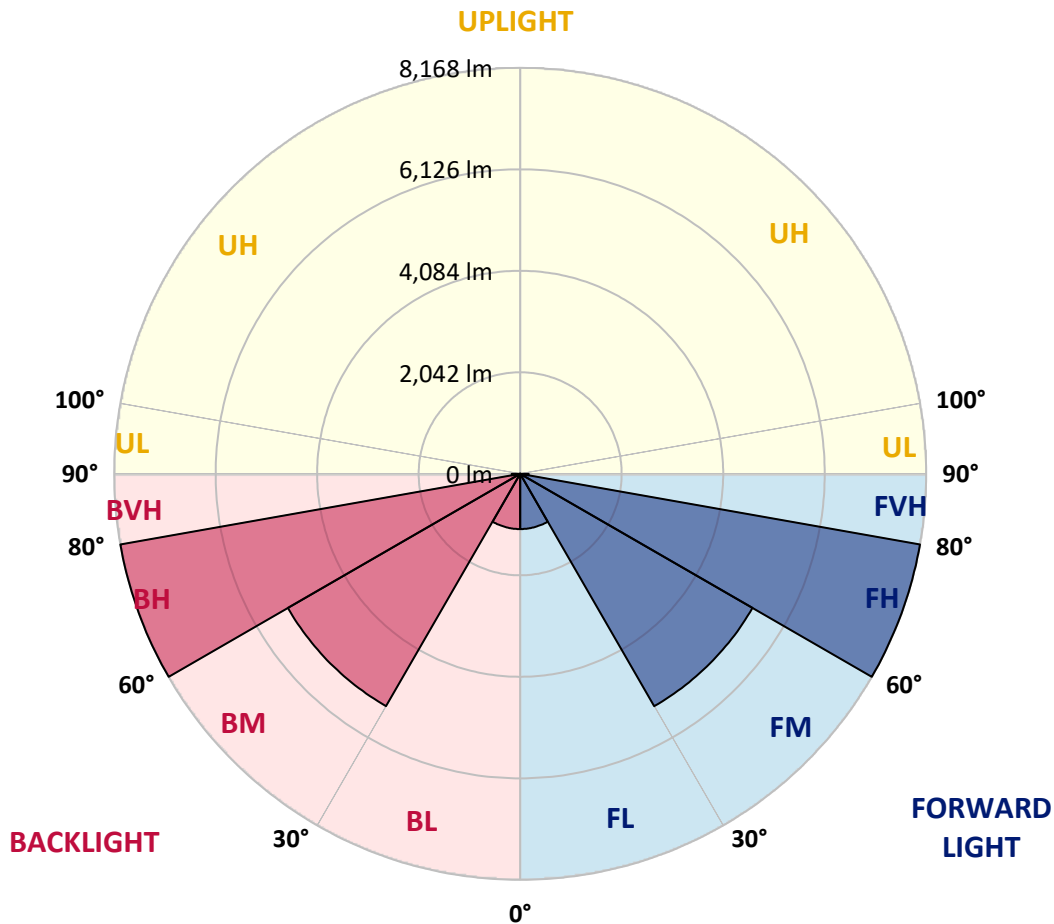
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.4	3.7			
FM (30°-60°)	5397.0	18.2			
FH (60°-80°)	8167.9	27.5			G4/12000
FVH (80°-90°)	169.7	0.6			G2/225
BL (0°-30°)	1111.4	3.7	B3/2500		
BM (30°-60°)	5397.0	18.2	B4/8500		
BH (60°-80°)	8167.9	27.5	B5		G4/12000
BVH (80°-90°)	169.7	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°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2.5°	2691.5	2699.2	2696.2	2690.0	2690.0	2685.4	2690.0	2693.1	2697.7	2700.8	2699.2
5°	2656.0	2662.2	2660.7	2656.0	2657.6	2652.9	2656.0	2660.7	2663.8	2665.3	2665.3
7.5°	2625.2	2631.3	2628.3	2620.5	2620.5	2615.9	2617.5	2622.1	2626.7	2628.3	2628.3
10°	2617.5	2623.6	2614.4	2602.0	2597.4	2591.2	2592.8	2597.4	2606.6	2611.3	2611.3
12.5°	2620.5	2625.2	2615.9	2597.4	2592.8	2586.6	2586.6	2591.2	2603.6	2609.7	2611.3
15°	2629.8	2634.4	2620.5	2600.5	2595.8	2591.2	2589.7	2595.8	2609.7	2620.5	2622.1
17.5°	2646.8	2651.4	2629.8	2602.0	2595.8	2597.4	2595.8	2600.5	2622.1	2642.1	2642.1
20°	2662.2	2665.3	2636.0	2602.0	2595.8	2597.4	2595.8	2605.1	2632.9	2660.7	2662.2
22.5°	2666.8	2669.9	2642.1	2612.8	2608.2	2609.7	2608.2	2617.5	2643.7	2671.5	2671.5
25°	2668.4	2673.0	2651.4	2628.3	2636.0	2639.1	2636.0	2637.5	2657.6	2682.3	2680.7
27.5°	2691.5	2697.7	2677.6	2657.6	2662.2	2660.7	2665.3	2669.9	2685.4	2710.1	2703.9
30°	2739.4	2744.0	2727.0	2707.0	2703.9	2693.1	2707.0	2722.4	2739.4	2761.0	2756.4
32.5°	2818.1	2827.3	2805.7	2784.1	2770.2	2764.1	2774.9	2801.1	2824.3	2847.4	2838.1
35°	2949.3	2955.4	2935.4	2895.2	2870.6	2870.6	2879.8	2913.8	2950.8	2980.1	2969.3
37.5°	3134.5	3142.2	3106.7	3058.8	3021.8	3021.8	3034.1	3069.6	3125.2	3166.9	3151.4
40°	3359.8	3370.6	3325.8	3276.4	3240.9	3234.8	3250.2	3290.3	3342.8	3395.3	3378.3
42.5°	3631.4	3643.8	3585.1	3541.9	3514.1	3514.1	3521.8	3558.9	3606.7	3671.5	3666.9
45°	3978.7	4000.3	3920.0	3876.8	3850.6	3856.7	3861.4	3893.8	3937.0	4011.1	4008.0
47.5°	4392.3	4413.9	4329.0	4284.2	4279.6	4308.9	4290.4	4313.6	4336.7	4421.6	4396.9
50°	4861.4	4898.5	4839.8	4836.7	4846.0	4900.0	4856.8	4869.1	4842.9	4896.9	4864.5
52.5°	5435.5	5489.6	5478.7	5497.3	5600.7	5711.8	5613.0	5569.8	5471.0	5488.0	5430.9
55°	6131.6	6213.4	6228.8	6339.9	6574.5	6801.4	6591.5	6417.1	6207.2	6168.6	6108.4
57.5°	6923.3	6988.1	7062.2	7289.1	7727.4	8130.2	7727.4	7341.5	7011.3	6932.5	6877.0
60°	7775.2	7855.4	7926.4	8261.3	8912.6	9479.0	8900.3	8287.6	7850.8	7744.3	7651.7
62.5°	8690.4	8793.8	8843.2	9215.1	9974.4	10650.4	9985.2	9242.9	8758.3	8644.1	8551.5
65°	9568.5	9653.4	9709.0	10105.6	10830.9	11508.5	10880.3	10148.8	9650.3	9500.6	9426.5
67.5°	9977.5	10023.8	10159.6	10608.7	11374.2	12147.4	11503.8	10656.6	10099.4	9837.1	9840.1
70°	9378.7	9284.6	9611.7	10330.9	11439.0	12539.4	11587.2	10309.3	9627.2	9201.2	9303.1
72.5°	7247.4	7085.3	7653.3	8883.3	10698.2	12289.4	10772.3	8952.7	8006.7	7142.4	7357.0
75°	3943.2	3759.5	4543.5	6099.2	8531.4	10651.9	8727.4	6273.6	5059.0	3913.8	4168.5
77.5°	1112.7	1043.3	1676.0	2950.8	5131.5	7478.9	5329.0	3015.6	1987.8	1179.1	1310.3
80°	341.1	330.3	447.6	888.9	2179.2	3582.0	2094.3	899.7	569.5	359.6	379.7
82.5°	202.2	185.2	222.2	324.1	555.6	1125.1	540.2	338.0	271.6	182.1	197.5
85°	115.7	108.0	131.2	157.4	186.7	239.2	155.9	160.5	145.1	97.2	101.9
87.5°	47.8	43.2	50.9	49.4	43.2	55.6	41.7	49.4	58.6	38.6	35.5
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)