

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: P884432

Luminaire Tested: **NAV-SB5B-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884432  
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-SB5B-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

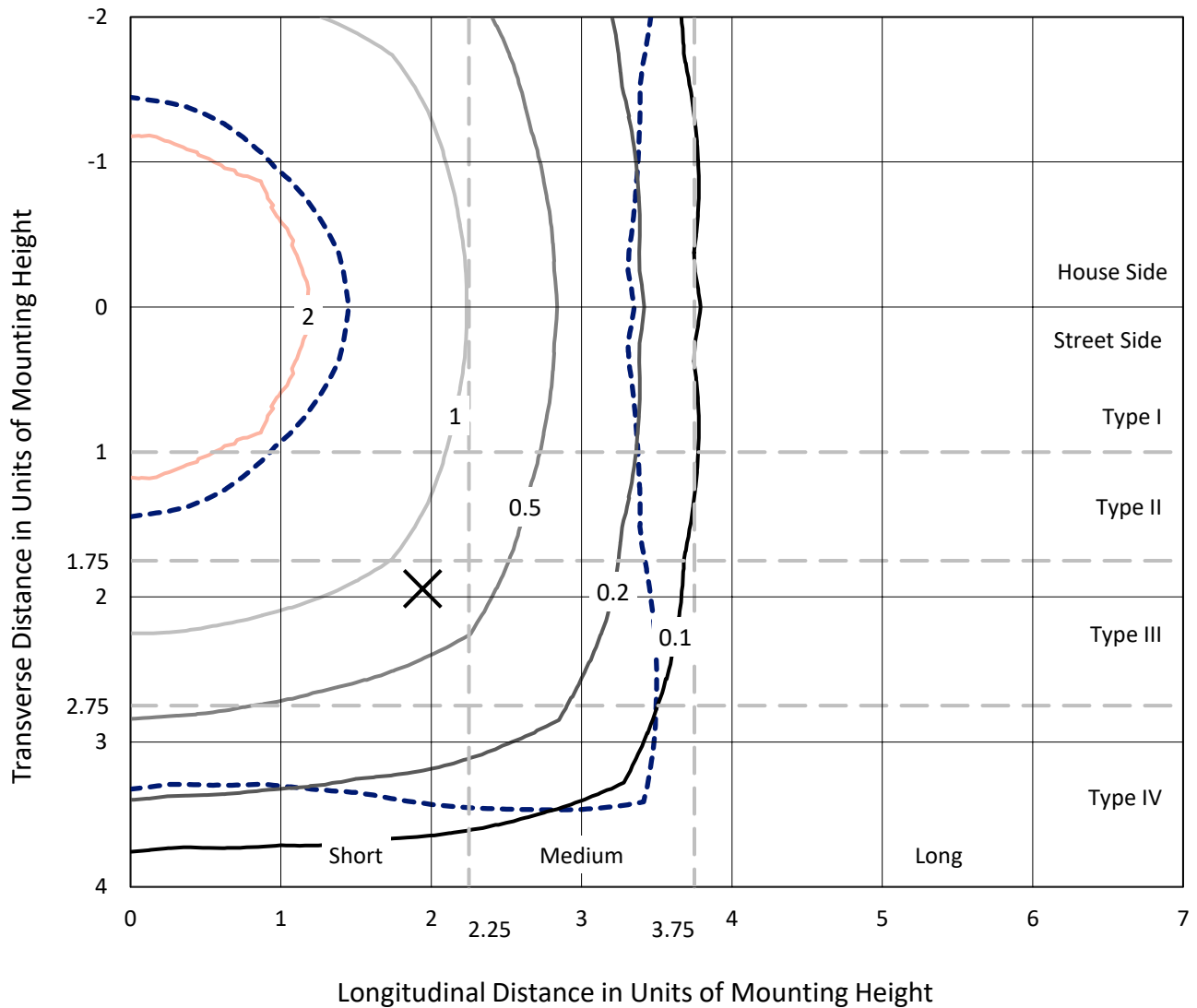
Lumens per Lamp: N/A  
Luminaire Lumens: 28451 lumens  
Efficiency: N/A  
Efficacy: 155.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
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

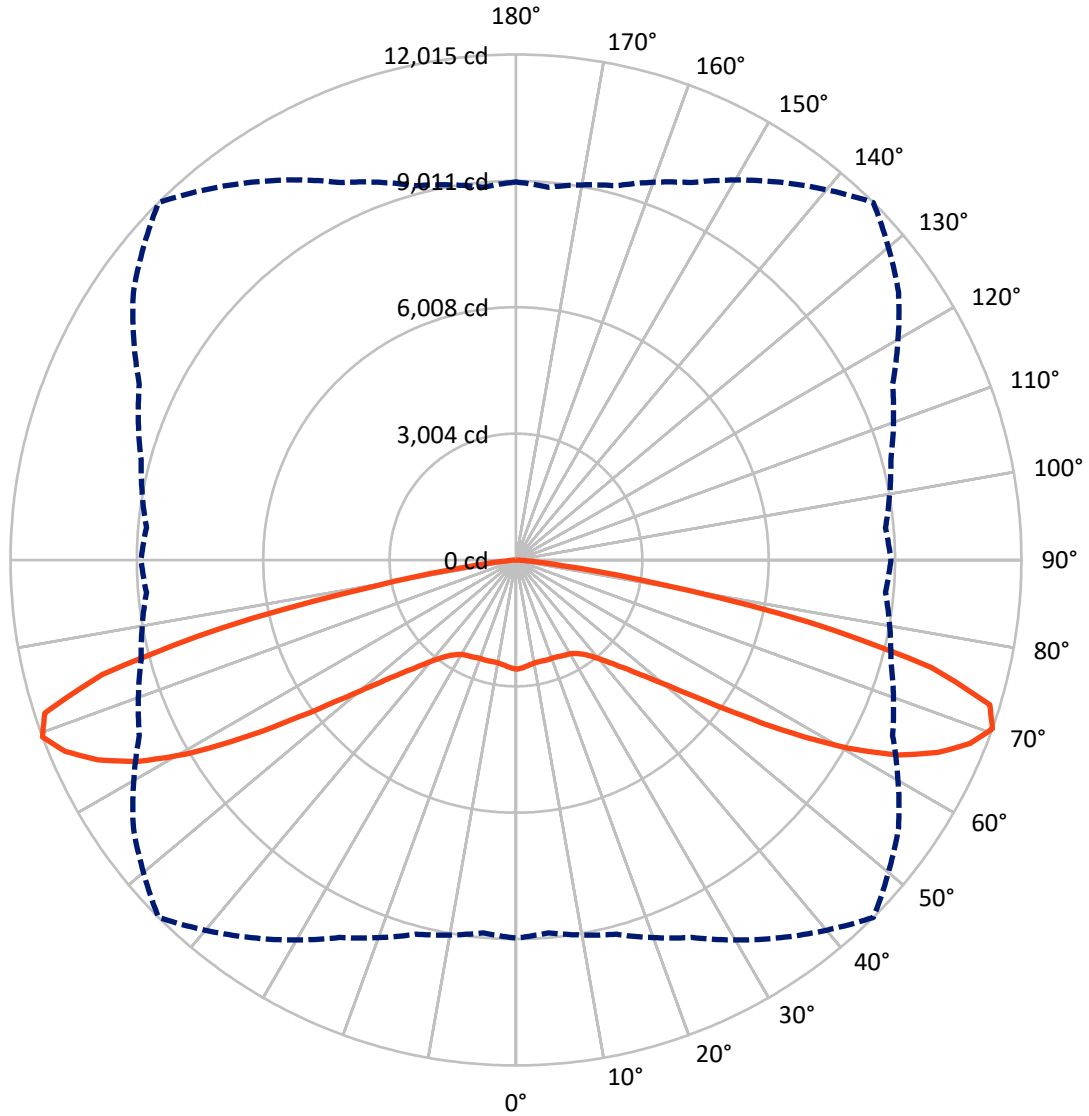
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	14225.5	0.0	14225.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14225.5	0.0	14225.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28451.0	0.0	28451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.4	0.8
10°-20°	708.9	2.5
20°-30°	1179.7	4.1
30°-40°	1784.0	6.3
40°-50°	2964.6	10.4
50°-60°	5594.2	19.7
60°-70°	9446.0	33.2
70°-80°	6207.0	21.8
80°-90°	325.2	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°	28451.0	100.0
0°-180°	28451.0	100.0

**Coefficient of Utilization**



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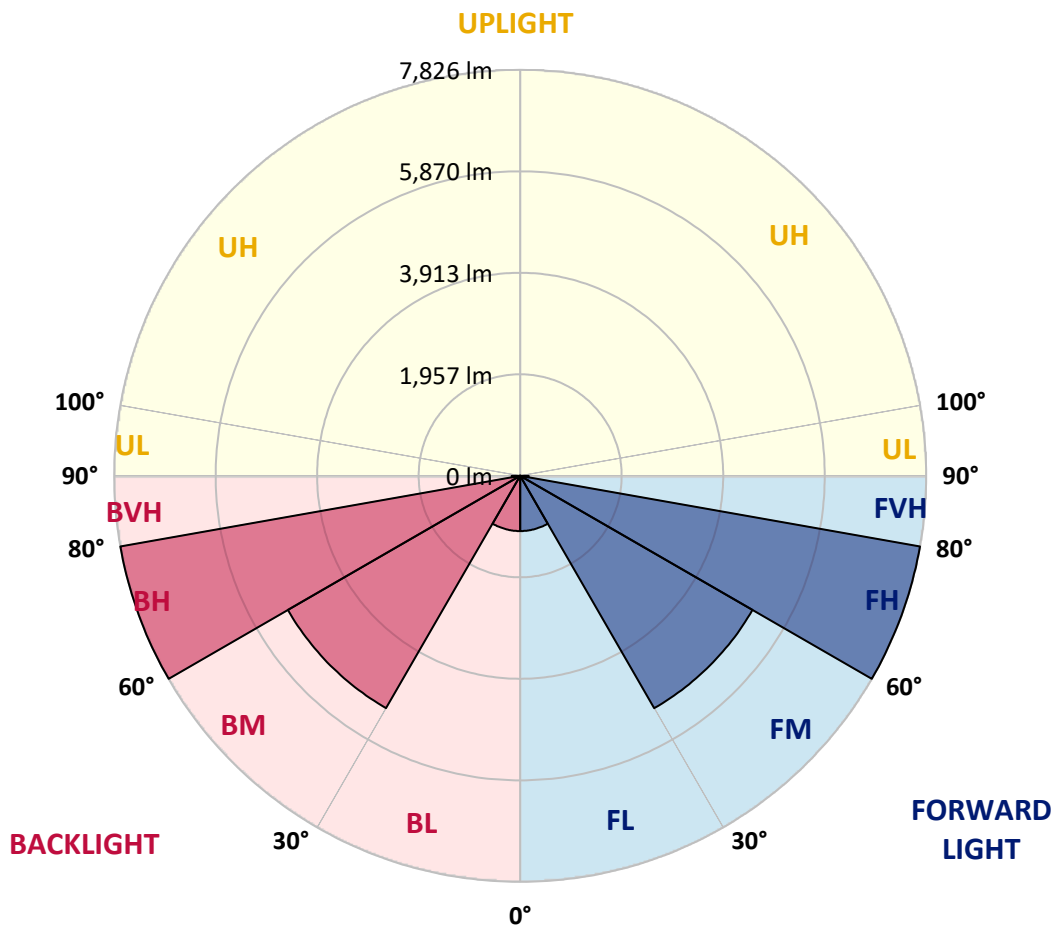
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.0	3.7			
FM (30°-60°)	5171.4	18.2			
FH (60°-80°)	7826.5	27.5			G4/12000
FVH (80°-90°)	162.6	0.6			G2/225
BL (0°-30°)	1065.0	3.7	B3/2500		
BM (30°-60°)	5171.4	18.2	B4/8500		
BH (60°-80°)	7826.5	27.5	B5		G4/12000
BVH (80°-90°)	162.6	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°	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3	2595.3
2.5°	2579.0	2586.4	2583.5	2577.6	2577.6	2573.1	2577.6	2580.5	2585.0	2587.9	2586.4
5°	2545.0	2550.9	2549.5	2545.0	2546.5	2542.1	2545.0	2549.5	2552.4	2553.9	2553.9
7.5°	2515.4	2521.4	2518.4	2511.0	2511.0	2506.6	2508.1	2512.5	2516.9	2518.4	2518.4
10°	2508.1	2514.0	2505.1	2493.3	2488.8	2482.9	2484.4	2488.8	2497.7	2502.1	2502.1
12.5°	2511.0	2515.4	2506.6	2488.8	2484.4	2478.5	2478.5	2482.9	2494.7	2500.7	2502.1
15°	2519.9	2524.3	2511.0	2491.8	2487.4	2482.9	2481.4	2487.4	2500.7	2511.0	2512.5
17.5°	2536.2	2540.6	2519.9	2493.3	2487.4	2488.8	2487.4	2491.8	2512.5	2531.7	2531.7
20°	2550.9	2553.9	2525.8	2493.3	2487.4	2488.8	2487.4	2496.2	2522.8	2549.5	2550.9
22.5°	2555.4	2558.3	2531.7	2503.6	2499.2	2500.7	2499.2	2508.1	2533.2	2559.8	2559.8
25°	2556.9	2561.3	2540.6	2518.4	2525.8	2528.8	2525.8	2527.3	2546.5	2570.2	2568.7
27.5°	2579.0	2585.0	2565.7	2546.5	2550.9	2549.5	2553.9	2558.3	2573.1	2596.8	2590.9
30°	2624.9	2629.3	2613.0	2593.8	2590.9	2580.5	2593.8	2608.6	2624.9	2645.6	2641.1
32.5°	2700.3	2709.2	2688.5	2667.8	2654.5	2648.5	2658.9	2684.0	2706.2	2728.4	2719.5
35°	2826.0	2831.9	2812.7	2774.2	2750.6	2750.6	2759.5	2792.0	2827.5	2855.6	2845.2
37.5°	3003.5	3010.8	2976.8	2931.0	2895.5	2895.5	2907.3	2941.3	2994.6	3034.5	3019.7
40°	3219.4	3229.7	3186.8	3139.5	3105.5	3099.6	3114.4	3152.8	3203.1	3253.4	3237.1
42.5°	3479.6	3491.5	3435.3	3393.9	3367.2	3367.2	3374.6	3410.1	3456.0	3518.1	3513.6
45°	3812.4	3833.1	3756.2	3714.8	3689.6	3695.5	3700.0	3731.0	3772.4	3843.4	3840.5
47.5°	4208.7	4229.4	4148.1	4105.2	4100.7	4128.8	4111.1	4133.3	4155.4	4236.8	4213.1
50°	4658.2	4693.7	4637.5	4634.6	4643.4	4695.2	4653.8	4665.6	4640.5	4692.3	4661.2
52.5°	5208.4	5260.1	5249.8	5267.5	5366.6	5473.1	5378.4	5337.0	5242.4	5258.6	5203.9
55°	5875.3	5953.7	5968.5	6074.9	6299.7	6517.1	6316.0	6148.9	5947.8	5910.8	5853.1
57.5°	6633.9	6696.0	6767.0	6984.4	7404.4	7790.3	7404.4	7034.7	6718.2	6642.8	6589.6
60°	7450.2	7527.1	7595.1	7916.0	8540.1	9082.8	8528.3	7941.2	7522.7	7420.6	7331.9
62.5°	8327.2	8426.2	8473.6	8829.9	9557.5	10205.2	9567.9	8856.6	8392.2	8282.8	8194.1
65°	9168.6	9249.9	9303.2	9683.2	10378.3	11027.5	10425.6	9724.6	9247.0	9103.5	9032.5
67.5°	9560.5	9604.8	9735.0	10165.3	10898.8	11639.7	11023.0	10211.2	9677.3	9425.9	9428.9
70°	8986.7	8896.5	9210.0	9899.1	10960.9	12015.3	11102.9	9878.4	9224.8	8816.6	8914.2
72.5°	6944.5	6789.2	7333.4	8512.0	10251.1	11775.7	10322.1	8578.6	7672.0	6843.9	7049.5
75°	3778.3	3602.4	4353.6	5844.2	8174.8	10206.7	8362.6	6011.3	4847.5	3750.3	3994.3
77.5°	1066.2	999.7	1606.0	2827.5	4917.0	7166.3	5106.3	2889.6	1904.7	1129.8	1255.5
80°	326.8	316.5	428.9	851.8	2088.1	3432.3	2006.7	862.1	545.7	344.6	363.8
82.5°	193.7	177.5	212.9	310.5	532.4	1078.0	517.6	323.9	260.3	174.5	189.3
85°	110.9	103.5	125.7	150.8	178.9	229.2	149.4	153.8	139.0	93.2	97.6
87.5°	45.8	41.4	48.8	47.3	41.4	53.2	39.9	47.3	56.2	37.0	34.0
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)