

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: P970256

Luminaire Tested: **NAV-SB6B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970256
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-SB6B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29246.3 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

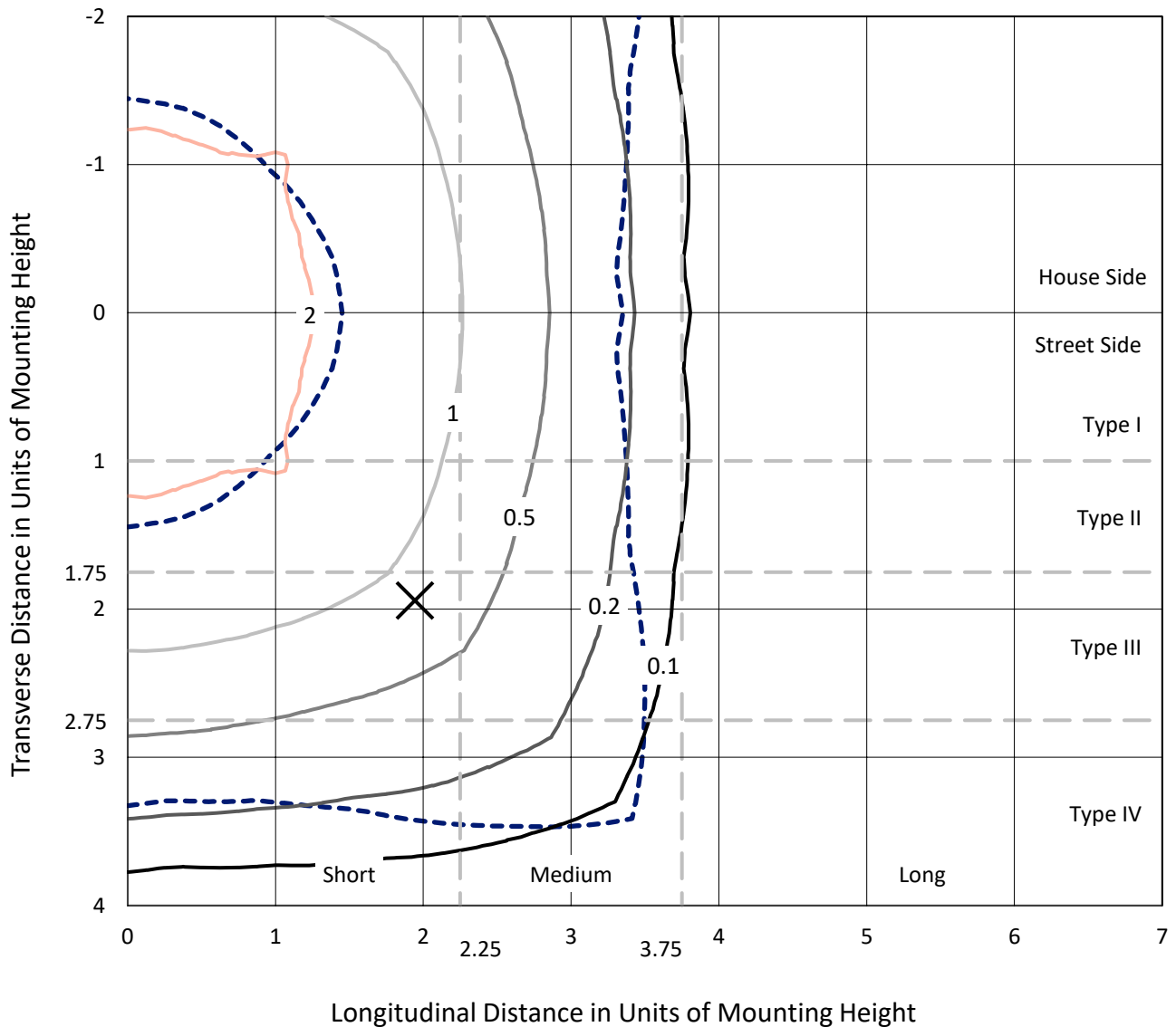
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

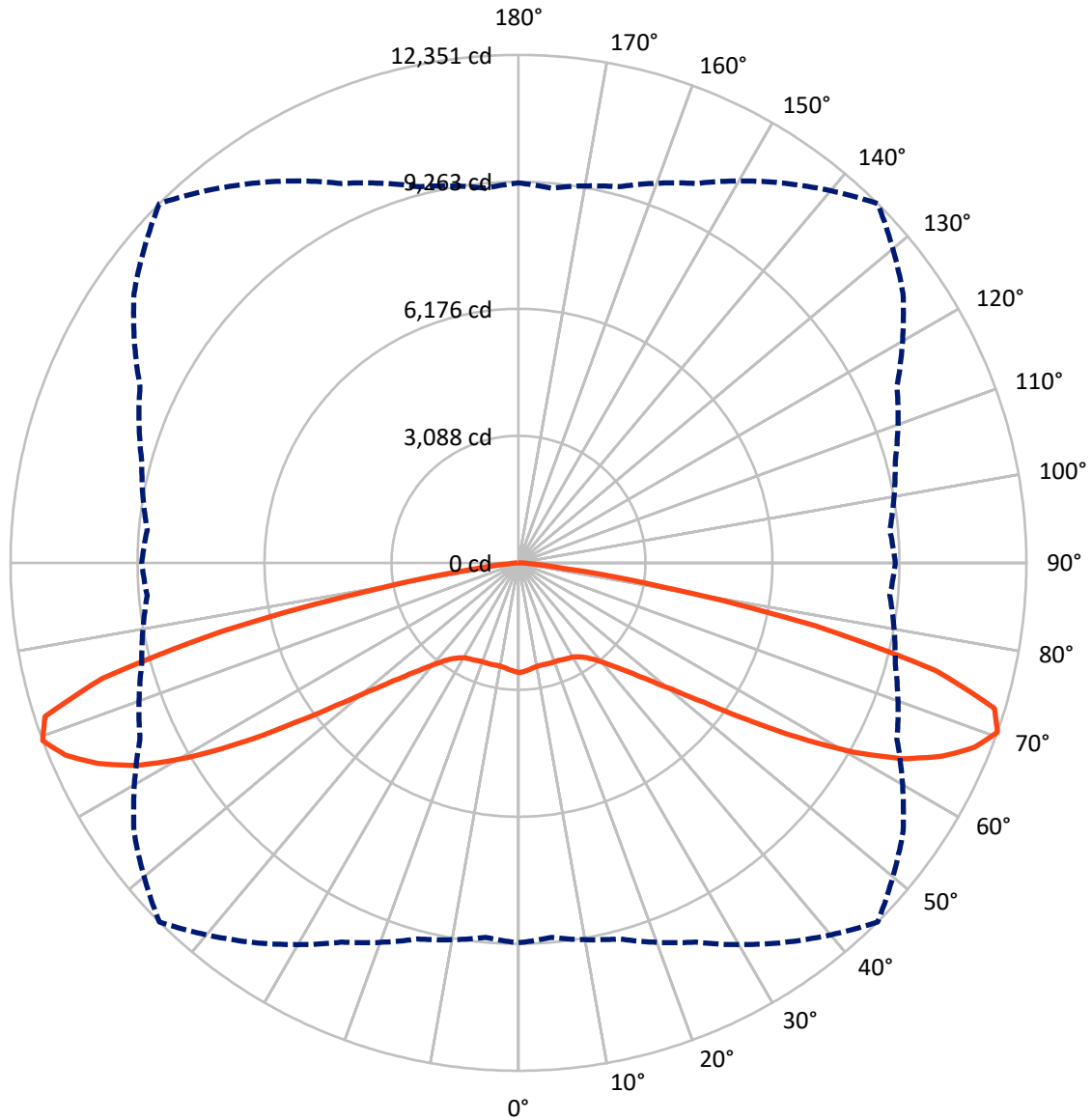
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	14623.2	0.0	14623.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14623.2	0.0	14623.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	29246.3	0.0	29246.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	0.8
10°-20°	728.7	2.5
20°-30°	1212.7	4.1
30°-40°	1833.9	6.3
40°-50°	3047.5	10.4
50°-60°	5750.5	19.7
60°-70°	9710.0	33.2
70°-80°	6380.5	21.8
80°-90°	334.3	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°	29246.3	100.0
0°-180°	29246.3	100.0

Coefficient of Utilization

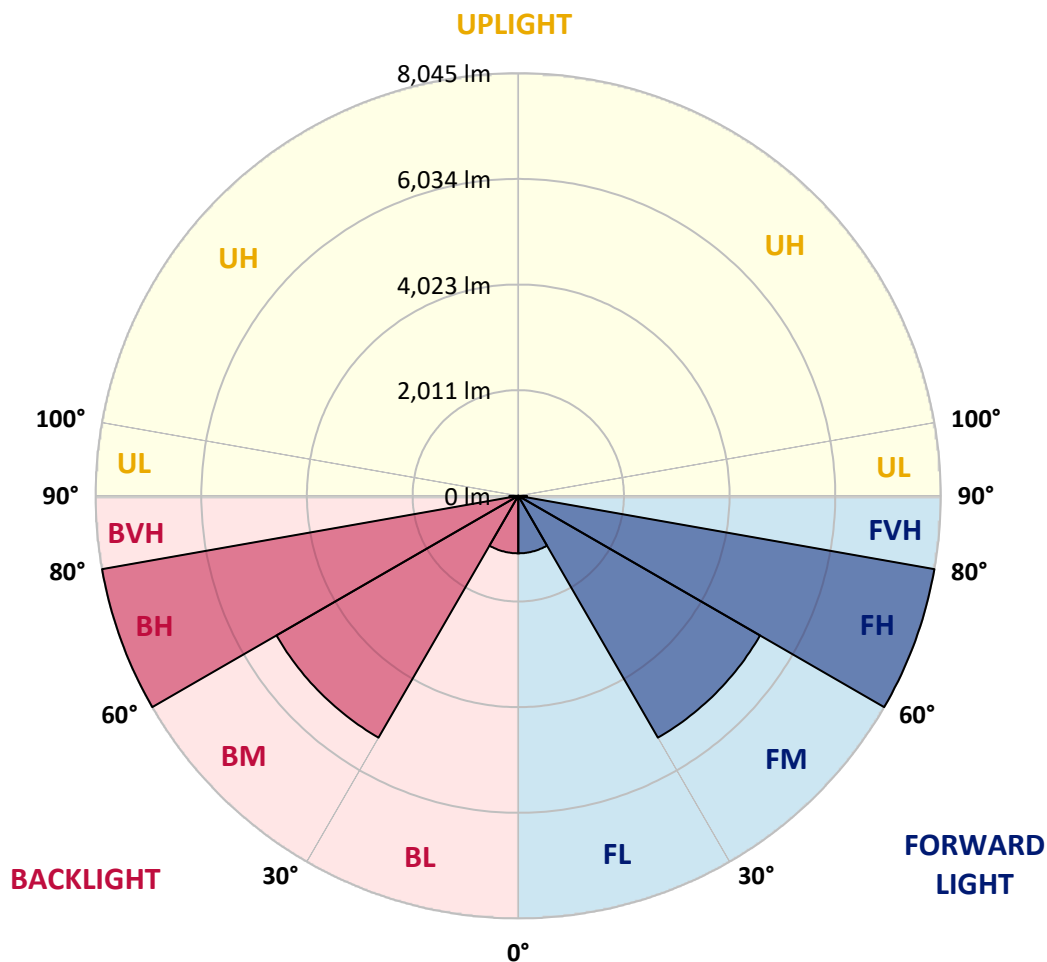


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.8	3.7			
FM (30°-60°)	5316.0	18.2			
FH (60°-80°)	8045.3	27.5			G4/12000
FVH (80°-90°)	167.1	0.6			G2/225
BL (0°-30°)	1094.8	3.7	B3/2500		
BM (30°-60°)	5316.0	18.2	B4/8500		
BH (60°-80°)	8045.3	27.5	B5		G4/12000
BVH (80°-90°)	167.1	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°	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9
2.5°	2651.2	2658.7	2655.7	2649.6	2649.6	2645.0	2649.6	2652.7	2657.2	2660.3	2658.7
5°	2616.2	2622.3	2620.7	2616.2	2617.6	2613.1	2616.2	2620.7	2623.8	2625.3	2625.3
7.5°	2585.8	2591.8	2588.8	2581.2	2581.2	2576.6	2578.2	2582.7	2587.3	2588.8	2588.8
10°	2578.2	2584.2	2575.1	2563.0	2558.4	2552.4	2553.9	2558.4	2567.5	2572.1	2572.1
12.5°	2581.2	2585.8	2576.6	2558.4	2553.9	2547.7	2547.7	2552.4	2564.4	2570.6	2572.1
15°	2590.3	2594.9	2581.2	2561.5	2556.9	2552.4	2550.8	2556.9	2570.6	2581.2	2582.7
17.5°	2607.1	2611.6	2590.3	2563.0	2556.9	2558.4	2556.9	2561.5	2582.7	2602.5	2602.5
20°	2622.3	2625.3	2596.4	2563.0	2556.9	2558.4	2556.9	2566.0	2593.4	2620.7	2622.3
22.5°	2626.8	2629.8	2602.5	2573.6	2569.1	2570.6	2569.1	2578.2	2604.0	2631.4	2631.4
25°	2628.3	2632.9	2611.6	2588.8	2596.4	2599.4	2596.4	2598.0	2617.6	2642.0	2640.5
27.5°	2651.2	2657.2	2637.4	2617.6	2622.3	2620.7	2625.3	2629.8	2645.0	2669.4	2663.3
30°	2698.2	2702.8	2686.1	2666.3	2663.3	2652.7	2666.3	2681.5	2698.2	2719.5	2715.0
32.5°	2775.8	2784.9	2763.6	2742.4	2728.7	2722.6	2733.3	2759.1	2781.8	2804.7	2795.6
35°	2905.0	2911.1	2891.3	2851.8	2827.5	2827.5	2836.6	2870.0	2906.5	2935.4	2924.7
37.5°	3087.4	3095.0	3060.0	3012.9	2976.4	2976.4	2988.6	3023.5	3078.3	3119.4	3104.1
40°	3309.3	3320.0	3275.9	3227.3	3192.3	3186.2	3201.4	3240.9	3292.6	3344.3	3327.6
42.5°	3576.9	3589.0	3531.3	3488.7	3461.3	3461.3	3469.0	3505.5	3552.5	3616.4	3611.9
45°	3918.9	3940.2	3861.2	3818.6	3792.8	3798.9	3803.4	3835.3	3877.9	3950.9	3947.8
47.5°	4326.3	4347.6	4264.0	4219.9	4215.3	4244.2	4226.0	4248.8	4271.6	4355.2	4330.9
50°	4788.5	4825.0	4767.2	4764.1	4773.2	4826.4	4783.9	4796.1	4770.2	4823.4	4791.5
52.5°	5354.0	5407.2	5396.5	5414.8	5516.7	5626.0	5528.7	5486.2	5388.9	5405.6	5349.4
55°	6039.5	6120.1	6135.3	6244.7	6475.8	6699.3	6492.6	6320.8	6114.0	6076.0	6016.7
57.5°	6819.3	6883.2	6956.2	7179.6	7611.3	8008.1	7611.3	7231.4	6906.0	6828.4	6773.8
60°	7658.5	7737.5	7807.4	8137.4	8778.8	9336.7	8766.7	8163.2	7733.0	7628.0	7536.9
62.5°	8560.0	8661.8	8710.4	9076.8	9824.7	10490.6	9835.3	9104.2	8626.8	8514.4	8423.1
65°	9424.9	9508.5	9563.2	9953.9	10668.4	11335.7	10717.0	9996.5	9505.4	9358.0	9285.1
67.5°	9827.7	9873.3	10007.1	10449.5	11203.5	11965.0	11331.2	10496.6	9947.8	9689.4	9692.4
70°	9237.9	9145.2	9467.4	10175.9	11267.3	12351.1	11413.3	10154.6	9482.7	9063.2	9163.4
72.5°	7138.6	6979.0	7538.4	8749.9	10537.6	12104.9	10610.6	8818.4	7886.6	7035.2	7246.5
75°	3883.9	3703.1	4475.4	6007.6	8403.4	10492.0	8596.4	6179.4	4983.0	3855.1	4105.9
77.5°	1096.0	1027.7	1650.9	2906.5	5054.5	7366.6	5249.0	2970.3	1958.0	1161.4	1290.6
80°	336.0	325.3	440.9	875.6	2146.5	3528.3	2062.8	886.2	561.0	354.2	373.9
82.5°	199.2	182.4	218.9	319.2	547.2	1108.2	532.1	332.9	267.5	179.4	194.5
85°	114.0	106.4	129.3	155.1	184.0	235.6	153.5	158.1	142.9	95.7	100.3
87.5°	47.2	42.5	50.1	48.7	42.5	54.7	41.0	48.7	57.8	38.0	35.0
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)