

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: P969727

Luminaire Tested: **NAV-SB6A-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969727
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-SB6A-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24121.3 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

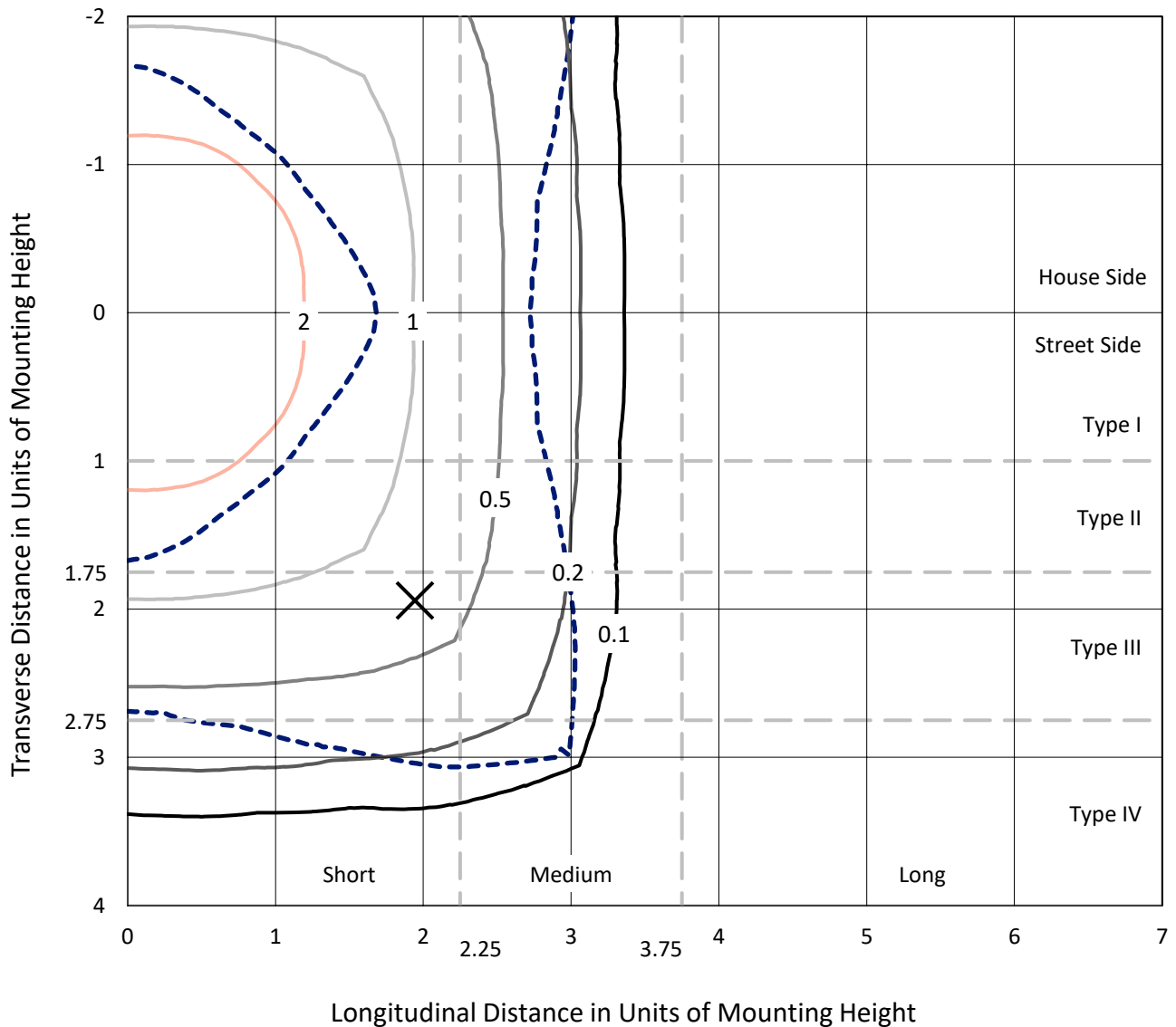
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

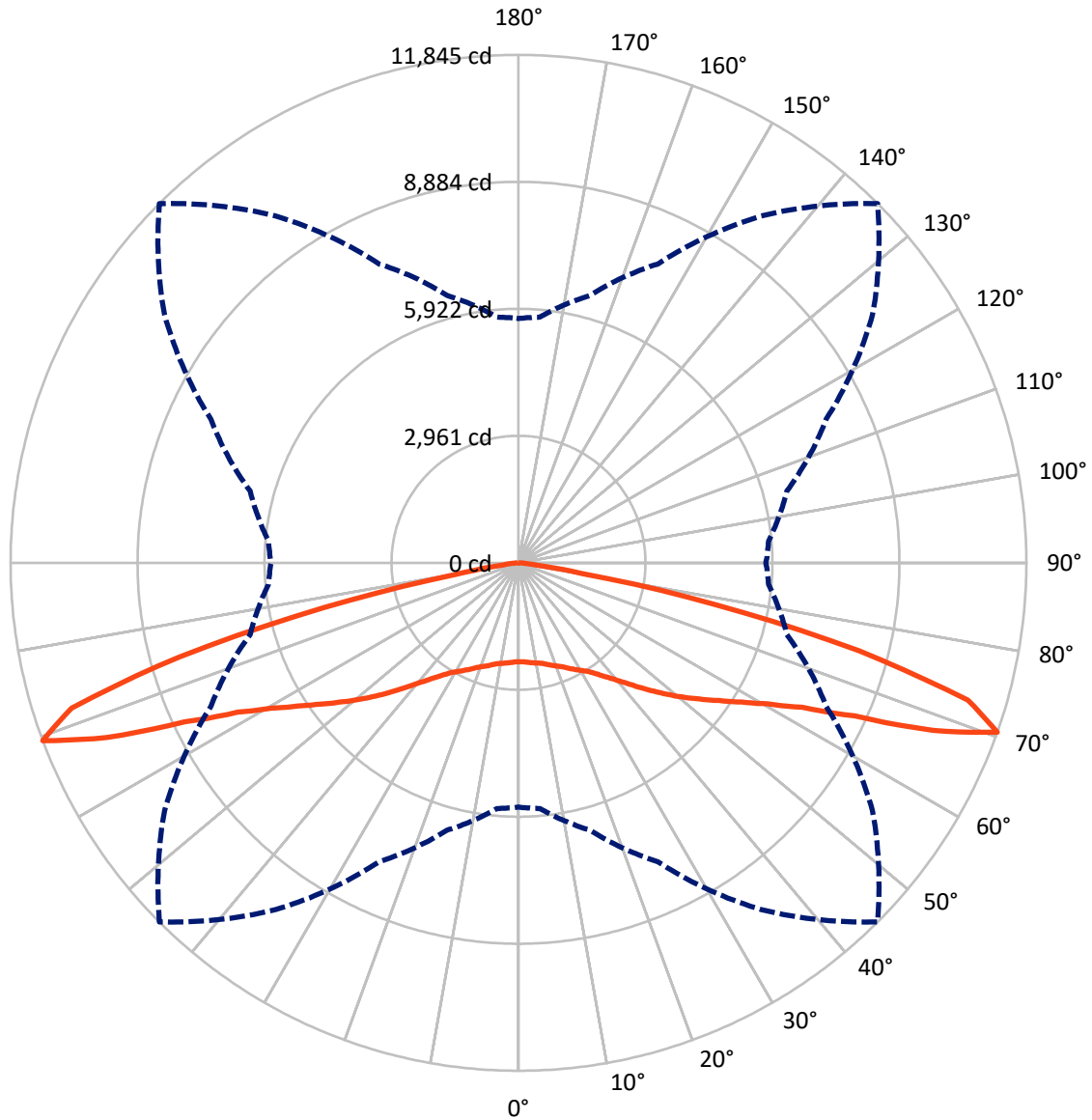
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	12060.7	0.0	12060.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12060.7	0.0	12060.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24121.3	0.0	24121.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	0.9
10°-20°	696.1	2.9
20°-30°	1243.9	5.2
30°-40°	2016.4	8.4
40°-50°	3284.4	13.6
50°-60°	5007.6	20.8
60°-70°	7449.8	30.9
70°-80°	4060.4	16.8
80°-90°	138.3	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°	24121.3	100.0
0°-180°	24121.3	100.0

Coefficient of Utilization



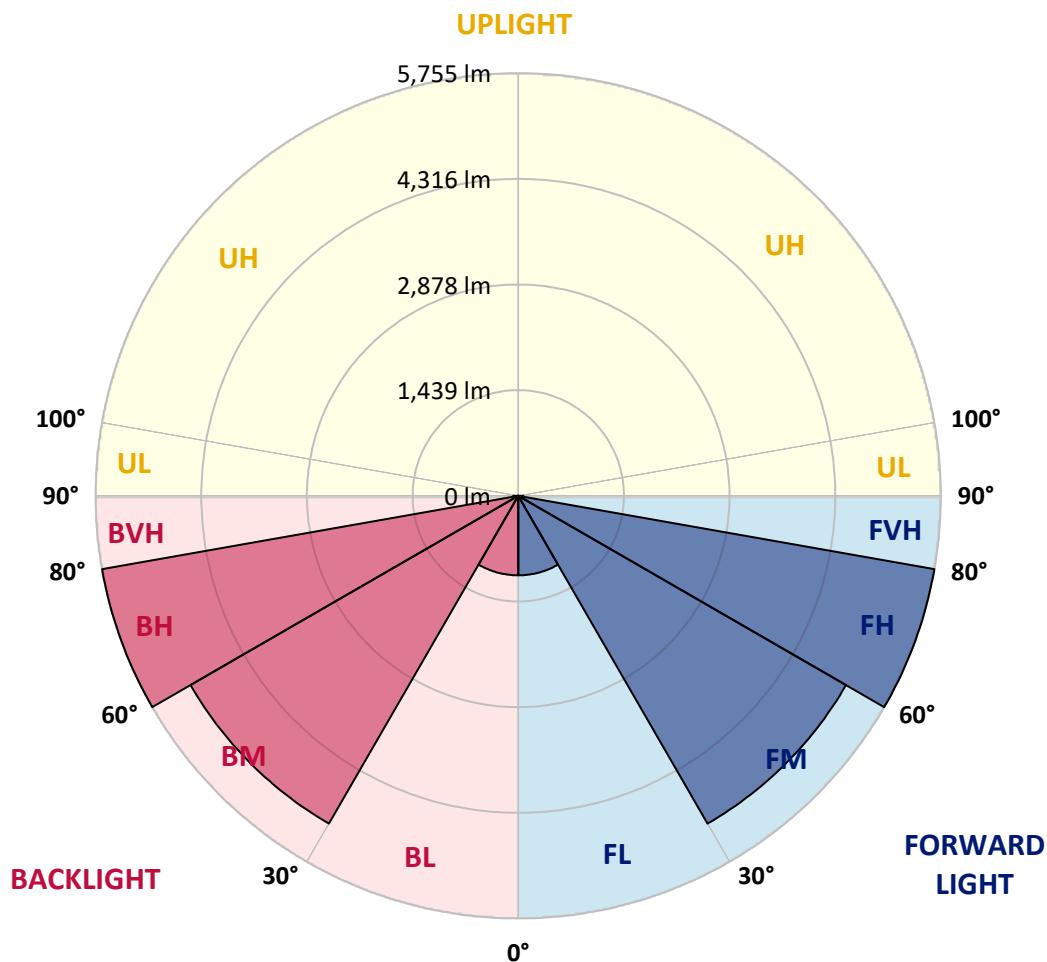
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.2	4.5			
FM (30°-60°)	5154.2	21.4			
FH (60°-80°)	5755.1	23.9			G3/7500
FVH (80°-90°)	69.1	0.3			G1/100
BL (0°-30°)	1082.2	4.5	B3/2500		
BM (30°-60°)	5154.2	21.4	B4/8500		
BH (60°-80°)	5755.1	23.9	B5		G3/7500
BVH (80°-90°)	69.1	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°	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6
2.5°	2321.5	2323.9	2319.1	2316.6	2314.2	2310.6	2311.8	2317.8	2322.6	2321.5	2322.6
5°	2340.9	2343.3	2339.7	2338.4	2333.6	2332.4	2332.4	2338.4	2342.0	2339.7	2340.9
7.5°	2362.6	2366.3	2360.3	2359.0	2356.6	2354.2	2353.0	2359.0	2362.6	2362.6	2362.6
10°	2383.2	2386.8	2382.0	2378.4	2376.0	2376.0	2373.6	2378.4	2384.5	2383.2	2383.2
12.5°	2405.1	2407.4	2402.6	2400.1	2400.1	2403.8	2400.1	2402.6	2407.4	2405.1	2403.8
15°	2431.7	2432.8	2431.7	2435.3	2441.3	2453.4	2442.6	2440.1	2442.6	2436.5	2436.5
17.5°	2468.0	2470.5	2475.3	2483.8	2492.2	2514.0	2494.6	2488.6	2488.6	2476.5	2476.5
20°	2512.8	2516.5	2523.8	2538.2	2549.2	2569.7	2550.3	2541.9	2538.2	2522.5	2522.5
22.5°	2560.0	2566.1	2577.0	2596.3	2615.7	2635.1	2615.7	2601.2	2590.3	2569.7	2568.5
25°	2614.6	2621.8	2638.8	2670.2	2696.9	2724.8	2701.7	2672.7	2650.9	2621.8	2620.6
27.5°	2692.1	2700.5	2721.1	2759.8	2793.7	2817.9	2796.2	2758.7	2728.3	2693.3	2692.1
30°	2801.0	2809.5	2833.7	2874.9	2897.9	2913.7	2899.1	2870.1	2833.7	2793.7	2793.7
32.5°	2941.5	2952.4	2979.1	3017.8	3022.6	3025.1	3020.3	3005.7	2979.1	2930.6	2931.8
35°	3119.5	3131.6	3161.9	3193.4	3188.6	3193.4	3186.1	3181.3	3161.9	3106.2	3106.2
37.5°	3337.5	3352.1	3383.5	3407.7	3395.6	3389.6	3390.8	3392.0	3381.1	3319.4	3319.4
40°	3590.6	3609.9	3633.0	3658.4	3637.8	3619.7	3631.8	3641.4	3631.8	3568.8	3568.8
42.5°	3850.9	3878.8	3903.0	3939.4	3922.4	3899.4	3916.3	3927.3	3906.7	3838.8	3843.6
45°	4140.4	4167.0	4198.5	4253.0	4240.9	4216.6	4240.9	4243.3	4208.2	4128.3	4136.8
47.5°	4439.5	4467.4	4514.6	4587.3	4582.4	4555.7	4587.3	4570.3	4525.5	4429.8	4423.8
50°	4722.9	4761.6	4834.3	4936.0	4945.7	4913.0	4955.4	4922.7	4847.6	4727.7	4725.2
52.5°	4989.3	5030.5	5145.5	5283.6	5318.7	5276.3	5333.2	5276.3	5163.6	5009.9	4995.3
55°	5269.0	5315.0	5451.9	5632.4	5702.6	5671.1	5724.3	5638.4	5478.5	5292.1	5266.7
57.5°	5598.4	5626.2	5789.7	6004.1	6122.7	6130.0	6154.3	6009.0	5815.2	5603.3	5574.2
60°	5955.7	5994.4	6172.4	6429.1	6616.9	6677.4	6651.9	6436.4	6211.2	5967.8	5929.0
62.5°	6413.4	6455.8	6669.0	6976.6	7273.2	7423.4	7324.0	7011.6	6733.1	6441.3	6390.4
65°	6792.5	6839.7	7224.8	7773.4	8313.5	8615.0	8365.5	7790.3	7289.0	6877.2	6809.4
67.5°	6517.6	6575.7	7180.0	8187.5	9530.6	10430.3	9576.6	8311.0	7329.0	6770.6	6687.1
70°	5696.5	5751.0	6455.8	7687.4	9873.2	11844.7	10079.1	7913.8	6478.8	5854.0	5770.3
72.5°	3781.9	3957.5	4670.8	6148.3	8816.0	10960.7	8903.3	6023.5	4332.9	3773.4	3651.2
75°	1254.6	1395.0	1881.9	3187.3	5904.8	8197.2	5621.4	2820.4	1490.8	1073.0	1014.9
77.5°	316.1	364.5	502.6	911.8	2355.3	4667.1	2120.4	744.8	405.7	283.4	253.1
80°	153.8	169.5	242.2	303.9	589.8	1483.5	553.4	285.8	191.4	147.7	135.6
82.5°	84.8	86.0	136.8	172.0	219.1	383.9	227.7	167.1	110.2	89.6	89.6
85°	52.1	50.8	72.7	92.0	92.0	136.8	109.0	92.0	62.9	55.7	58.1
87.5°	20.6	20.6	26.6	29.1	25.4	35.2	27.9	30.2	24.2	23.0	24.2
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)