

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: P967620

Luminaire Tested: **NAV-SB5A-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20105.4 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

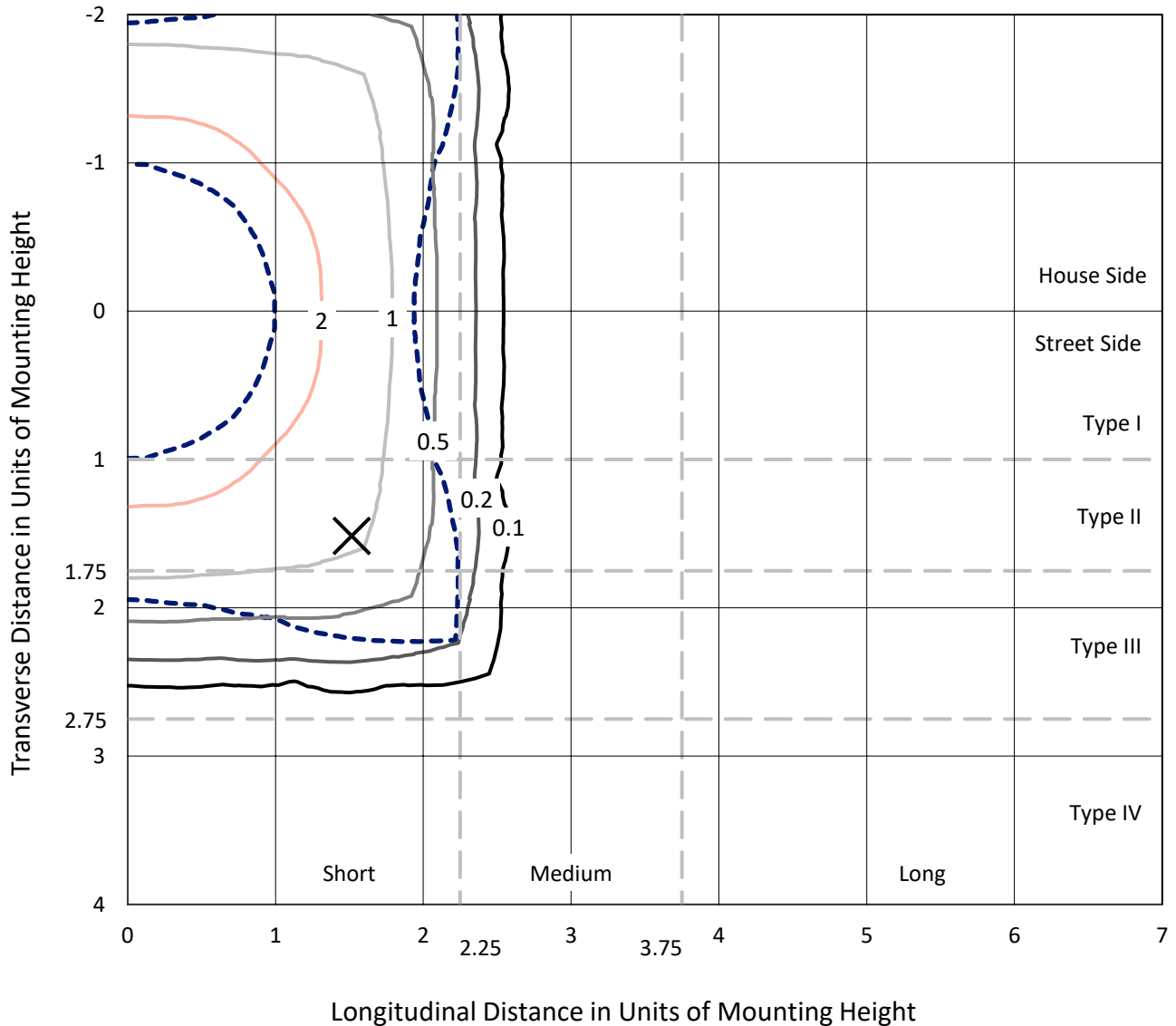
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P967620
 CATALOG NUMBER: NAV-SB5A-722-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

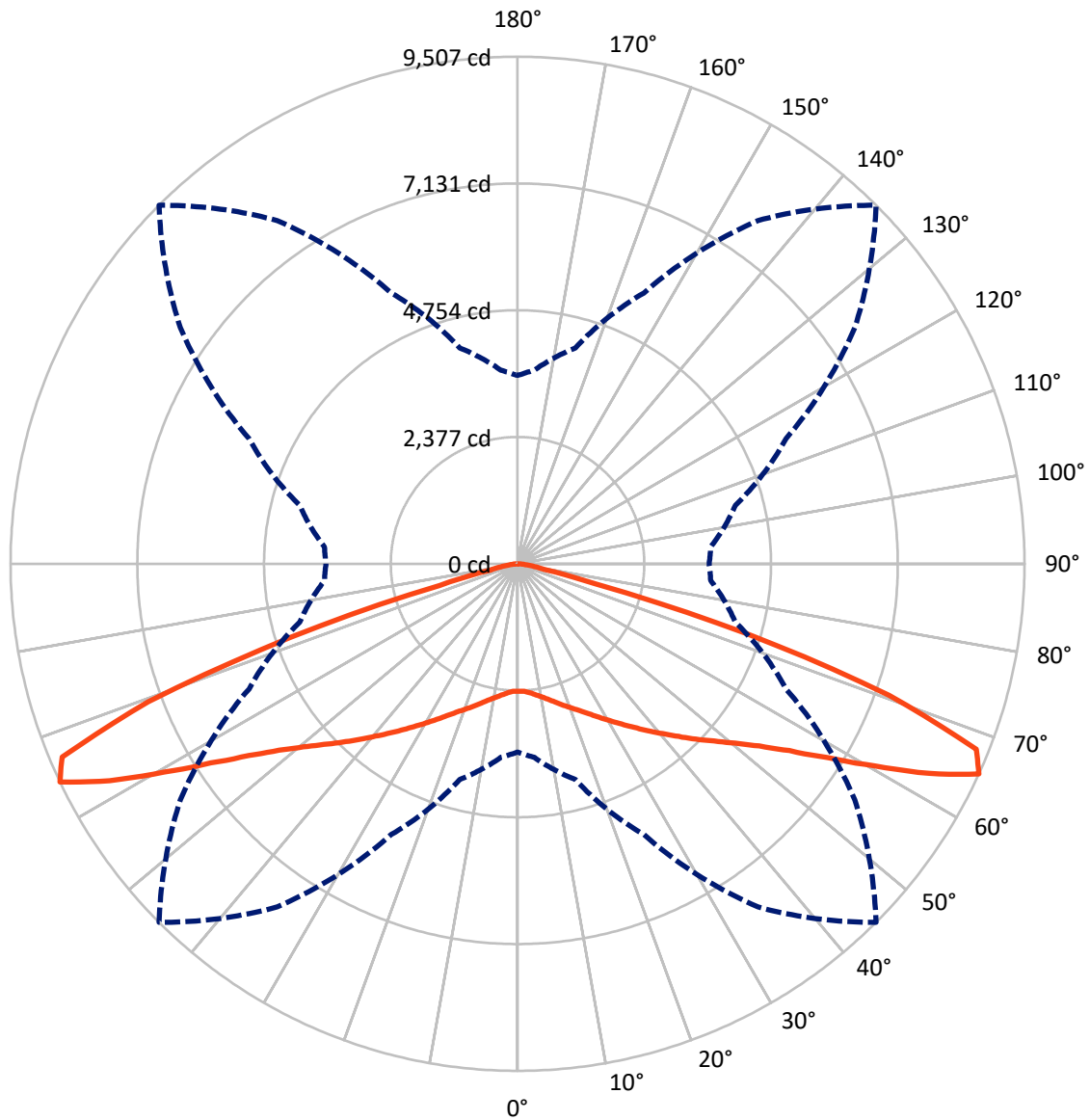
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P967620
CATALOG NUMBER: NAV-SB5A-722-U-5N9

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P967620
 CATALOG NUMBER: NAV-SB5A-722-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10052.7	0.0	10052.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10052.7	0.0	10052.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20105.4	0.0	20105.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	1.2
10°-20°	770.5	3.8
20°-30°	1454.9	7.2
30°-40°	2382.3	11.8
40°-50°	3693.8	18.4
50°-60°	5456.5	27.1
60°-70°	5194.1	25.8
70°-80°	838.1	4.2
80°-90°	79.0	0.4
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°	20105.4	100.0
0°-180°	20105.4	100.0

Coefficient of Utilization

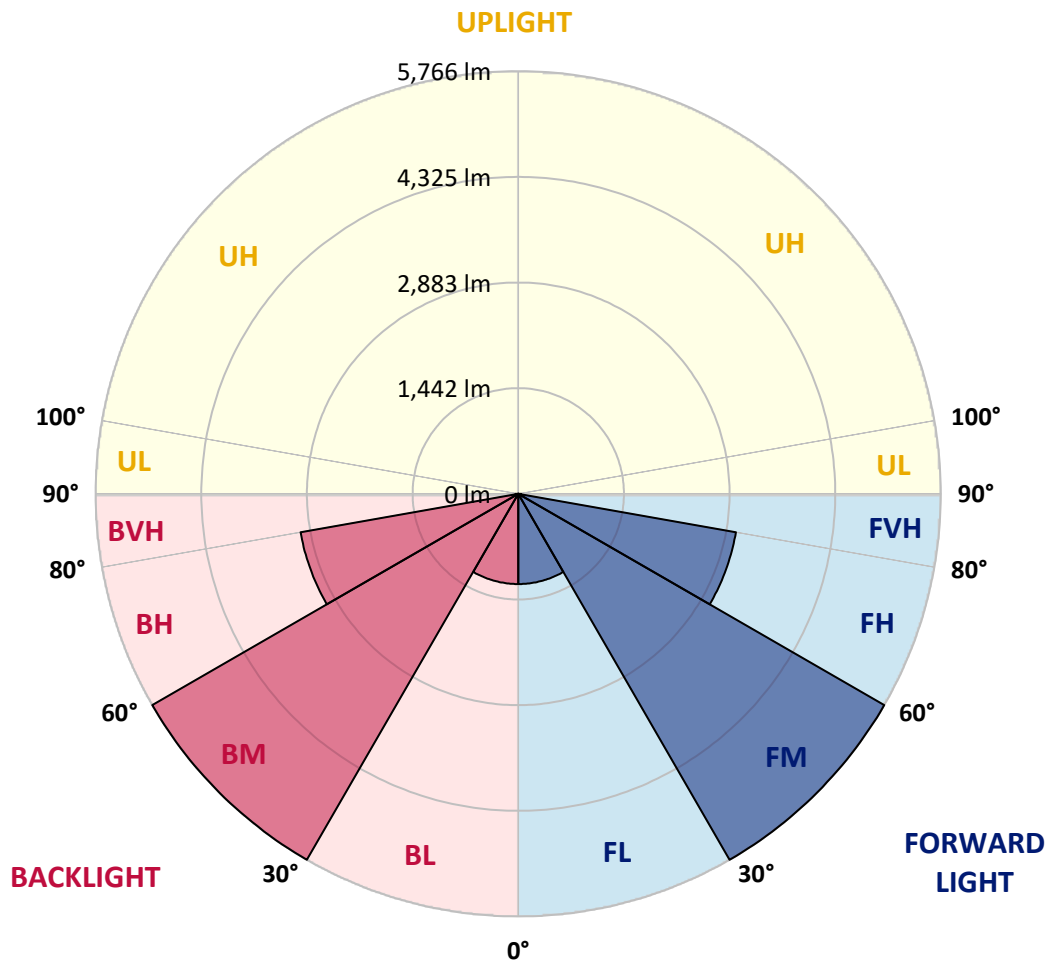


REPORT NUMBER: P967620
 CATALOG NUMBER: NAV-SB5A-722-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.8	6.1			
FM (30°-60°)	5766.3	28.7			
FH (60°-80°)	3016.1	15.0			G2/5000
FVH (80°-90°)	39.5	0.2			G1/100
BL (0°-30°)	1230.8	6.1	B3/2500		
BM (30°-60°)	5766.3	28.7	B4/8500		
BH (60°-80°)	3016.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	39.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short



REPORT NUMBER: P967620
 CATALOG NUMBER: NAV-SB5A-722-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2408.9	2400.9	2406.9	2401.8	2397.8	2393.8	2395.7	2402.8	2405.9	2406.9	2406.9
5°	2441.1	2434.1	2437.1	2437.1	2430.1	2428.0	2429.0	2434.1	2440.1	2440.1	2440.1
7.5°	2493.6	2486.5	2493.6	2489.6	2483.6	2481.5	2480.5	2484.5	2493.6	2493.6	2490.5
10°	2557.2	2549.1	2553.2	2551.1	2544.0	2541.0	2540.1	2546.1	2554.1	2553.2	2551.1
12.5°	2626.8	2617.6	2622.8	2616.7	2614.7	2611.6	2611.6	2610.7	2615.7	2611.6	2613.6
15°	2704.5	2698.4	2700.4	2696.4	2699.4	2697.4	2689.3	2685.3	2687.3	2681.2	2682.2
17.5°	2796.2	2782.2	2789.1	2787.2	2787.2	2791.2	2778.1	2773.0	2777.0	2771.0	2776.1
20°	2902.2	2888.0	2891.0	2887.0	2882.0	2886.0	2869.9	2873.9	2877.0	2872.9	2882.0
22.5°	3018.1	3000.0	2998.9	3001.0	2989.9	2991.0	2979.9	2989.9	2996.0	2984.9	2996.0
25°	3137.2	3118.0	3131.2	3126.1	3112.0	3115.0	3107.0	3117.0	3122.0	3107.9	3124.1
27.5°	3263.3	3250.2	3262.3	3265.3	3248.1	3260.2	3248.1	3257.2	3262.3	3241.0	3257.2
30°	3410.6	3397.5	3408.5	3416.6	3396.4	3415.6	3405.6	3411.6	3412.5	3387.3	3402.5
32.5°	3571.0	3550.8	3579.0	3583.1	3560.8	3584.1	3571.0	3579.0	3584.1	3549.8	3572.9
35°	3766.7	3741.5	3773.7	3768.6	3749.6	3768.6	3756.5	3768.6	3780.8	3739.4	3764.6
37.5°	3977.5	3951.3	3985.5	3976.5	3958.3	3971.5	3964.4	3972.4	3991.6	3947.2	3974.4
40°	4209.5	4177.2	4223.6	4207.4	4190.3	4188.4	4192.4	4197.4	4222.6	4173.2	4189.3
42.5°	4457.6	4423.4	4493.0	4467.8	4443.5	4427.4	4440.5	4450.5	4474.7	4419.3	4448.6
45°	4741.1	4701.8	4792.6	4762.3	4723.9	4690.7	4711.8	4727.0	4762.3	4695.7	4730.0
47.5°	5053.8	5009.4	5106.2	5097.2	5034.6	4962.0	5010.4	5053.8	5080.0	4999.3	5026.6
50°	5359.4	5325.2	5452.3	5463.4	5386.7	5284.8	5352.3	5417.9	5425.0	5319.1	5332.3
52.5°	5645.9	5611.7	5796.3	5865.9	5797.3	5676.2	5747.8	5814.4	5760.9	5623.8	5627.8
55°	5874.9	5846.7	6081.7	6261.3	6284.5	6184.6	6227.0	6224.9	6049.4	5838.6	5845.7
57.5°	5930.4	5926.3	6223.0	6603.3	6845.4	6857.5	6773.7	6559.9	6181.6	5898.2	5880.0
60°	5678.2	5703.4	6110.9	6781.8	7427.4	7695.7	7333.6	6723.3	6031.3	5637.9	5591.5
62.5°	4923.7	4990.2	5481.5	6563.9	7897.4	8660.0	7782.4	6475.1	5413.9	4900.5	4870.2
65°	3528.6	3644.6	4187.3	5601.5	7855.1	9507.4	7717.9	5556.1	4227.6	3635.5	3592.1
67.5°	1600.8	1718.9	2179.9	3835.2	6828.1	9277.4	6812.0	3875.6	2288.8	1725.0	1699.8
70°	580.0	600.2	748.5	1535.3	4363.8	7392.1	4550.5	1546.4	795.9	639.5	631.5
72.5°	351.1	354.0	385.3	549.8	1516.2	4487.9	1580.7	568.0	393.4	349.0	355.1
75°	222.9	220.9	274.4	335.9	537.6	1514.1	563.9	335.9	273.4	249.2	251.2
77.5°	160.4	165.4	196.7	251.2	339.0	513.4	332.9	240.1	196.7	161.4	164.4
80°	120.0	123.1	143.2	195.7	238.1	319.8	211.9	177.5	148.3	100.9	103.9
82.5°	86.7	86.7	93.8	142.3	145.2	172.5	115.0	125.0	97.9	71.6	71.6
85°	51.5	50.4	58.5	84.8	75.6	63.6	52.5	76.7	61.5	44.4	43.4
87.5°	18.1	19.2	18.1	24.2	20.2	17.1	16.1	21.2	17.1	15.2	14.1
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)