

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: P883575

Luminaire Tested: **NAV-SB4A-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16298 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

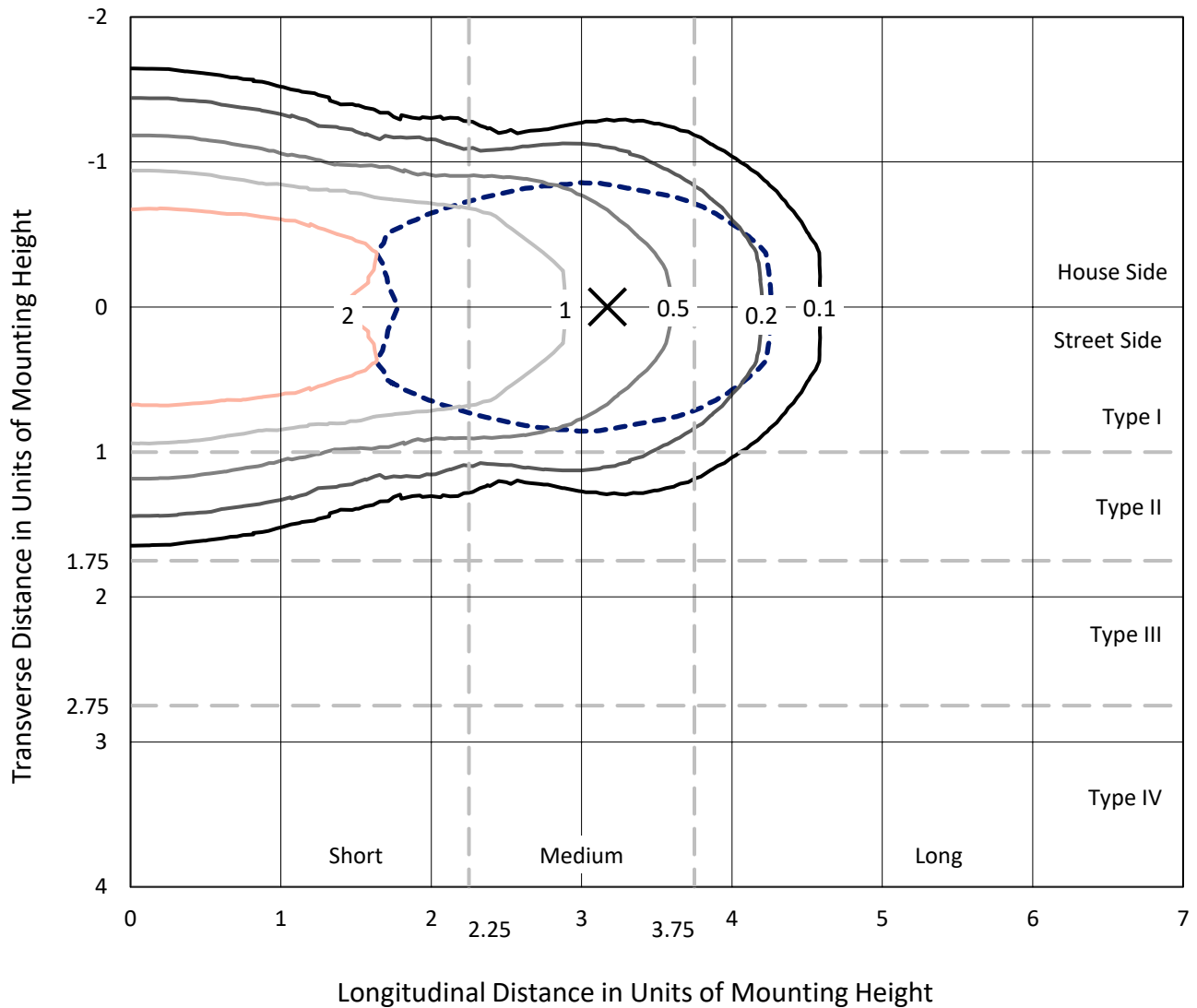
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

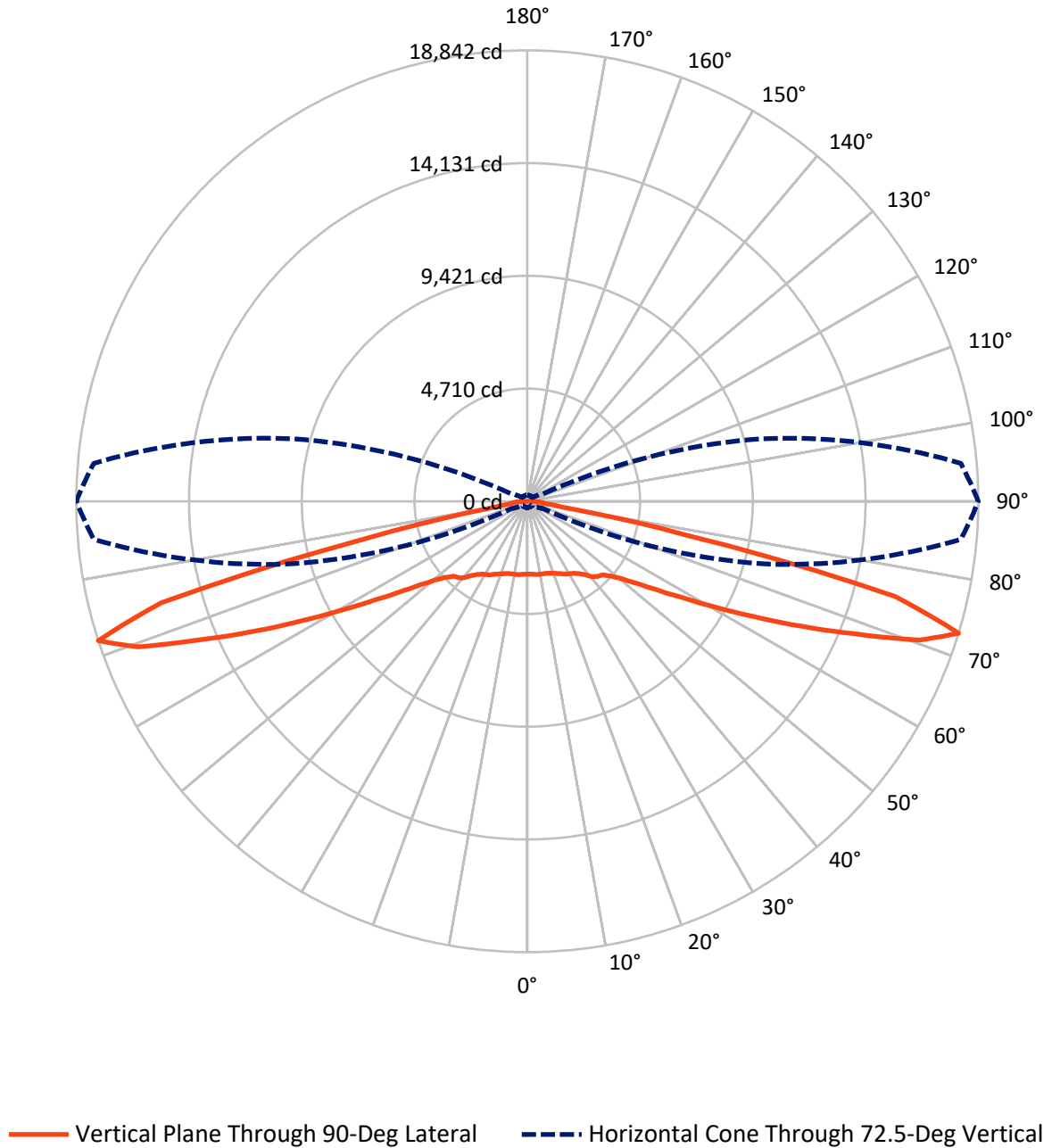
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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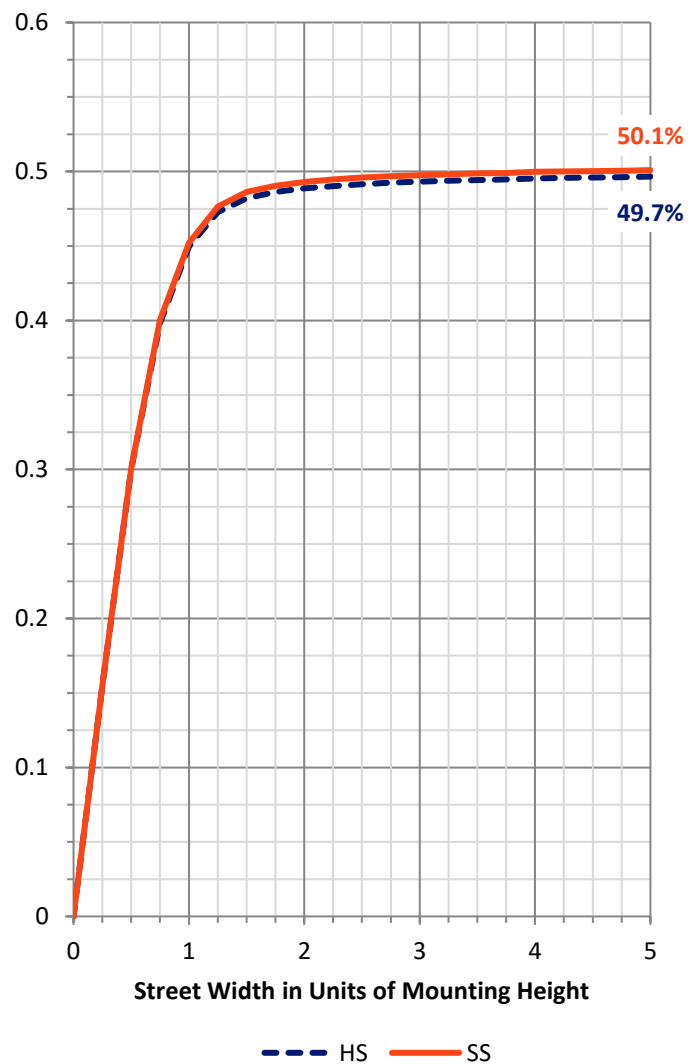
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8149.0	0.0	8149.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8149.0	0.0	8149.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16298.0	0.0	16298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.8
10°-20°	902.9	5.5
20°-30°	1505.5	9.2
30°-40°	2070.5	12.7
40°-50°	2528.7	15.5
50°-60°	2924.7	17.9
60°-70°	3487.2	21.4
70°-80°	2433.8	14.9
80°-90°	149.5	0.9
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°	16298.0	100.0
0°-180°	16298.0	100.0

Coefficient of Utilization



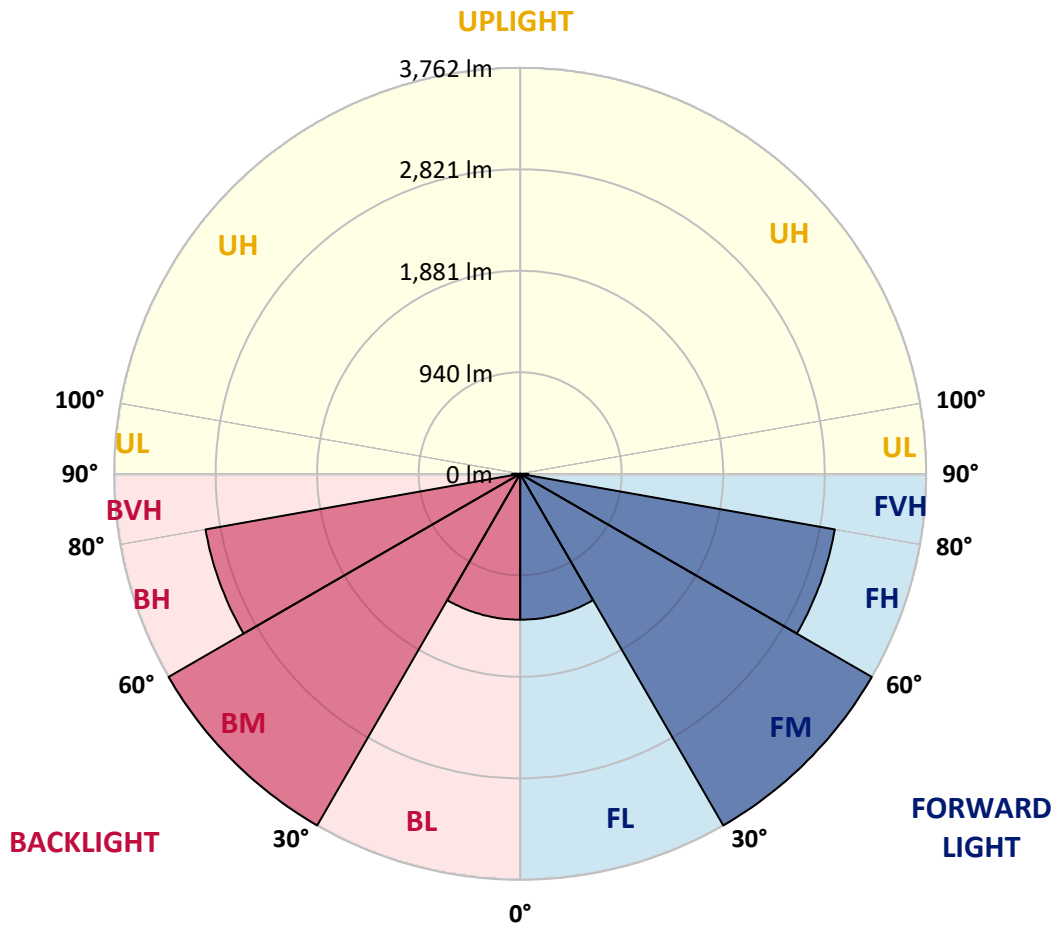
REPORT NUMBER: P883575
 CATALOG NUMBER: NAV-SB4A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.8	8.3			
FM (30°-60°)	3761.9	23.1			
FH (60°-80°)	2960.5	18.2			G2/5000
FVH (80°-90°)	74.7	0.5			G1/100
BL (0°-30°)	1351.8	8.3	B3/2500		
BM (30°-60°)	3761.9	23.1	B3/5000		
BH (60°-80°)	2960.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	74.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5
2.5°	3048.1	3051.5	3051.5	3048.9	3055.0	3049.8	3049.8	3047.2	3049.8	3047.2	3047.2
5°	3063.6	3068.0	3069.7	3068.8	3076.6	3072.3	3072.3	3068.8	3069.7	3067.1	3067.1
7.5°	3093.1	3099.2	3102.6	3107.0	3118.2	3113.0	3109.5	3099.2	3094.8	3087.9	3087.9
10°	3102.6	3109.5	3120.8	3143.3	3169.3	3170.2	3159.8	3133.8	3113.9	3098.3	3095.7
12.5°	3073.2	3082.7	3106.1	3152.0	3210.0	3233.4	3217.0	3173.6	3134.7	3107.0	3102.6
15°	3035.9	3046.3	3081.8	3151.1	3236.9	3291.4	3289.7	3232.5	3170.2	3126.9	3119.9
17.5°	2977.9	2988.3	3039.4	3136.4	3257.7	3347.7	3372.0	3313.1	3225.6	3167.6	3158.1
20°	2873.1	2882.6	2953.6	3089.6	3264.6	3407.5	3470.7	3418.8	3309.6	3230.8	3216.1
22.5°	2737.1	2751.8	2835.0	3009.1	3248.1	3469.9	3583.3	3547.8	3407.5	3298.4	3278.5
25°	2591.6	2607.2	2704.2	2910.3	3205.7	3514.9	3716.7	3694.2	3518.4	3382.4	3354.7
27.5°	2466.0	2482.4	2588.1	2812.5	3139.9	3532.2	3848.4	3859.7	3652.6	3475.1	3445.6
30°	2367.2	2382.8	2495.4	2733.6	3055.0	3514.9	3963.6	4041.5	3789.5	3555.6	3513.2
32.5°	2259.0	2278.9	2397.6	2637.5	2954.5	3473.3	4064.1	4238.2	3948.0	3642.2	3588.5
35°	2122.1	2140.3	2265.0	2505.8	2822.8	3406.6	4148.1	4456.4	4174.9	3773.9	3714.1
37.5°	1955.8	1973.1	2097.0	2341.3	2692.1	3313.1	4212.2	4702.4	4445.2	3963.6	3883.9
40°	1788.6	1805.1	1921.2	2157.6	2535.3	3193.6	4234.7	4943.2	4755.3	4224.3	4139.4
42.5°	1635.3	1650.1	1756.6	1976.6	2359.4	3041.1	4205.3	5152.8	5033.3	4406.2	4297.1
45°	1494.1	1507.1	1601.5	1806.8	2176.7	2855.8	4116.9	5378.0	5364.2	4536.1	4388.9
47.5°	1333.0	1346.0	1443.9	1642.3	1993.9	2638.4	3967.1	5599.8	5824.1	4830.6	4660.9
50°	1136.4	1147.7	1248.2	1452.6	1804.2	2407.1	3759.2	5773.9	6404.5	5276.7	5063.6
52.5°	903.4	915.5	1013.4	1217.8	1579.0	2158.5	3485.5	5887.4	7074.9	5928.1	5665.6
55°	672.1	680.8	765.7	949.3	1300.1	1875.3	3142.5	5919.4	7835.4	6818.5	6490.2
57.5°	487.7	492.9	547.4	684.3	985.7	1521.0	2725.8	5836.3	8740.5	7960.1	7546.9
60°	395.0	396.7	413.2	473.8	685.1	1120.8	2222.6	5550.4	9722.8	9431.7	8911.2
62.5°	358.6	358.6	362.9	379.4	463.4	739.7	1613.7	4958.0	10776.0	11291.4	10594.1
65°	333.5	333.5	335.2	343.0	365.5	471.2	1018.6	3993.0	11663.8	13469.8	12588.0
67.5°	311.0	311.8	311.0	313.6	326.5	348.2	590.7	2757.9	12142.0	15727.0	14775.1
70°	287.6	289.3	285.0	285.0	295.4	296.2	369.9	1512.3	11745.3	17618.8	17368.4
72.5°	259.9	262.4	255.5	253.8	261.6	258.1	278.0	725.9	10083.9	18183.5	18841.8
75°	235.6	239.1	223.5	219.1	219.1	216.5	226.1	372.5	6544.8	14833.2	15865.6
77.5°	213.9	220.9	195.8	181.9	178.4	170.6	184.5	227.8	2862.7	6964.0	6819.4
80°	176.7	186.2	161.1	144.7	138.6	129.9	145.5	159.4	851.4	1617.1	1548.7
82.5°	131.7	136.0	114.3	103.1	97.9	91.8	109.1	110.9	277.2	572.5	647.0
85°	84.0	85.8	70.2	60.6	58.0	55.4	69.3	60.6	105.7	421.0	611.5
87.5°	29.4	33.8	26.9	24.3	26.0	21.7	32.0	18.2	29.4	297.1	368.1
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)