

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: P883125

Luminaire Tested: **NAV-SB3B-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883125
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-SB3B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13576 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

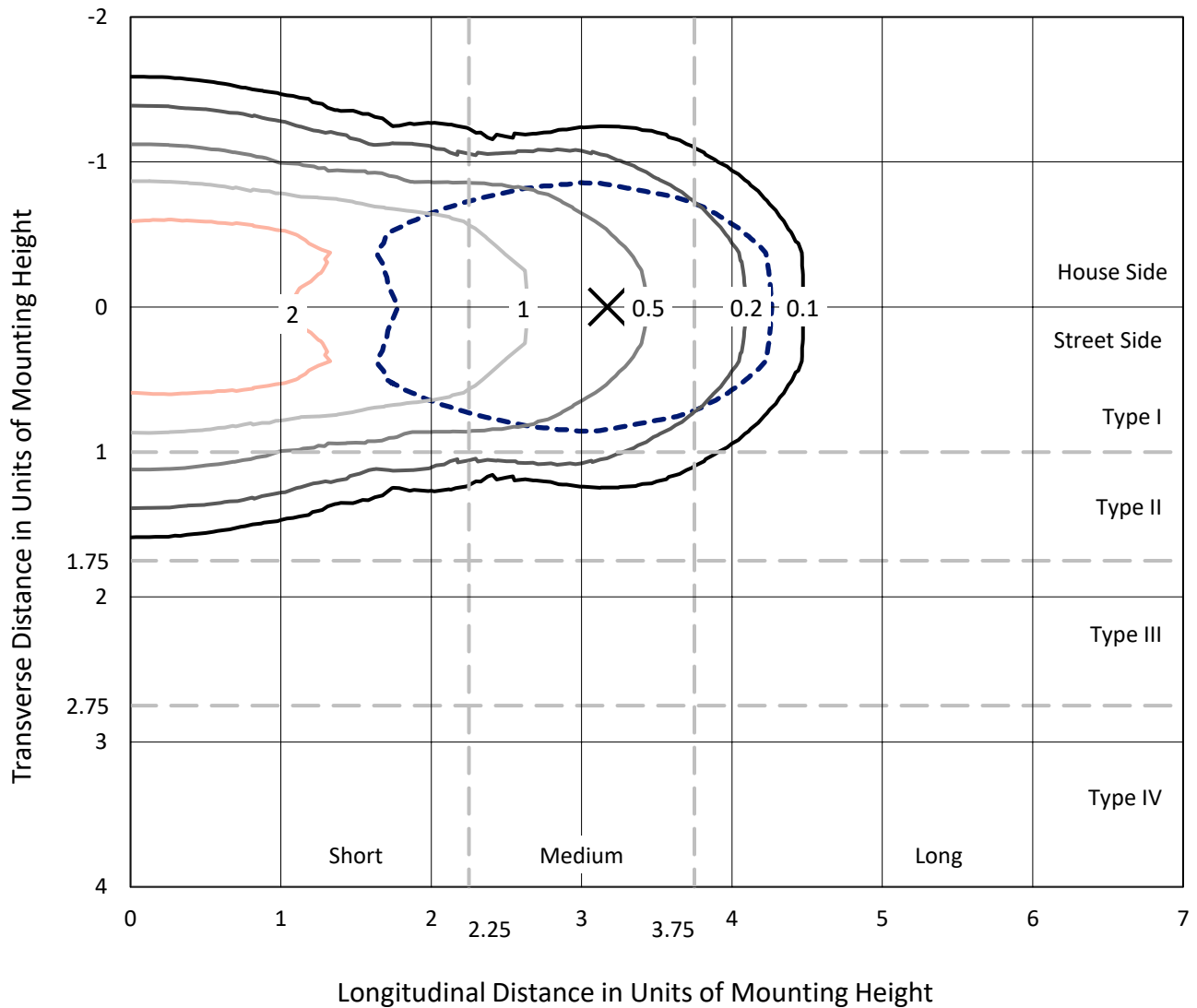
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

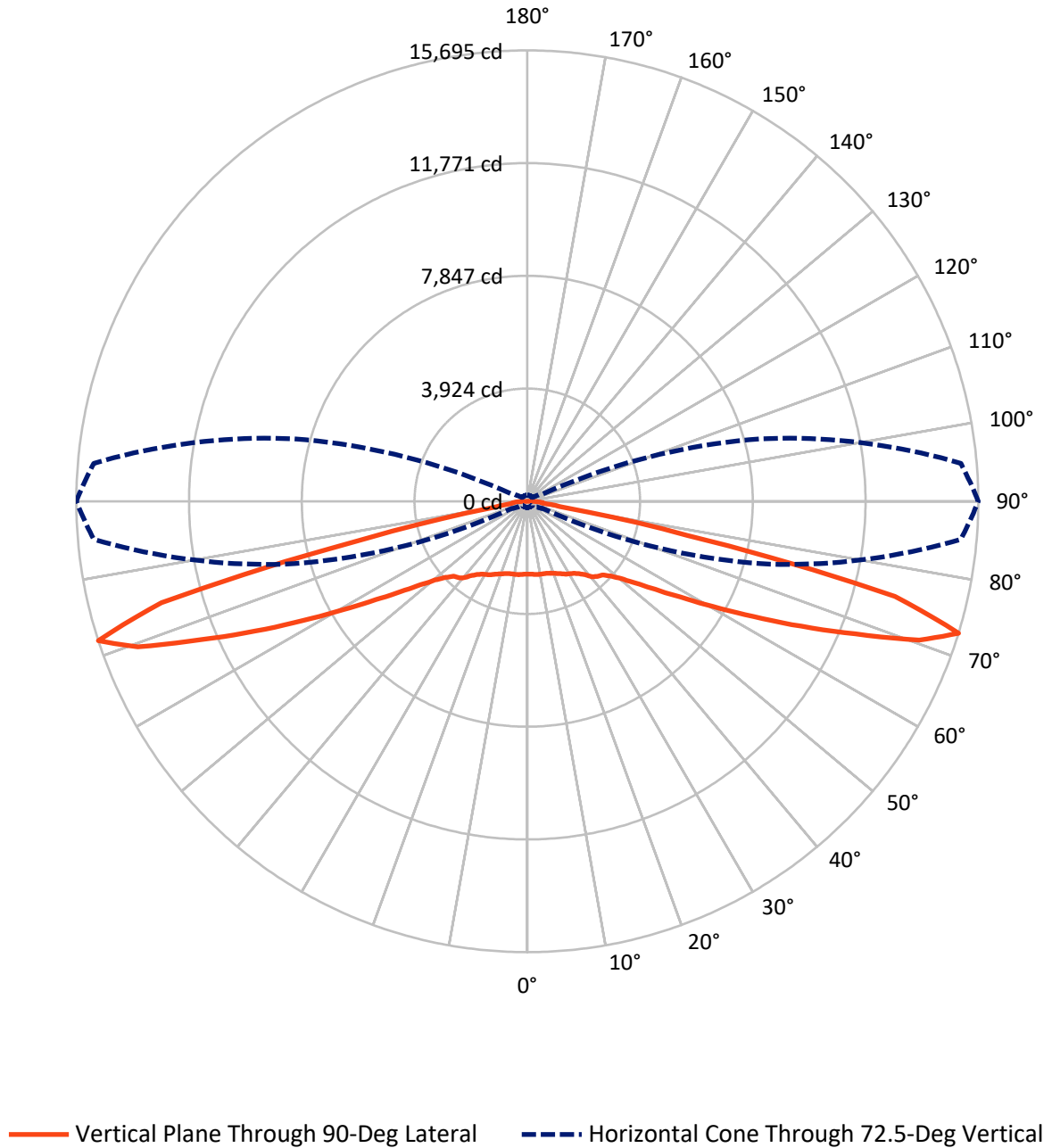
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	6788.0	0.0	6788.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6788.0	0.0	6788.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13576.0	0.0	13576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	1.8
10°-20°	752.1	5.5
20°-30°	1254.1	9.2
30°-40°	1724.7	12.7
40°-50°	2106.3	15.5
50°-60°	2436.2	17.9
60°-70°	2904.8	21.4
70°-80°	2027.3	14.9
80°-90°	124.5	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°	13576.0	100.0
0°-180°	13576.0	100.0

Coefficient of Utilization



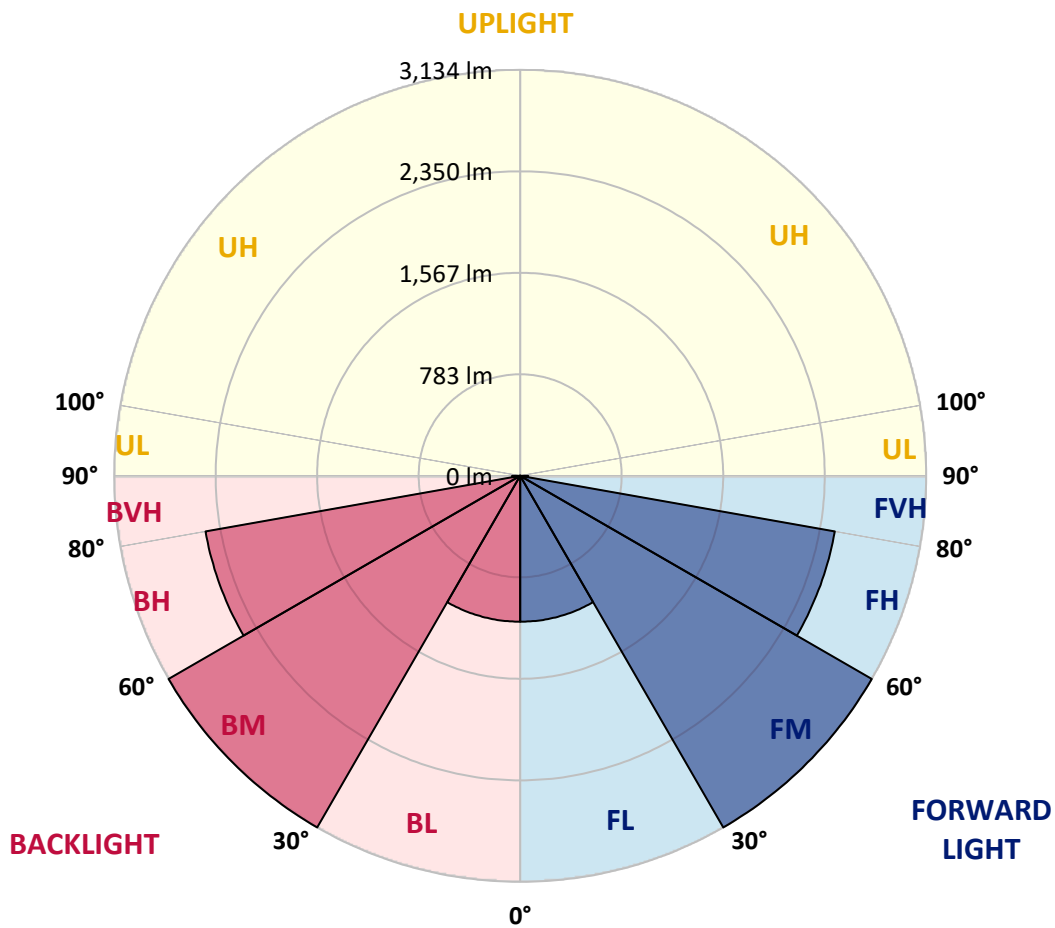
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.1	8.3			
FM (30°-60°)	3133.6	23.1			
FH (60°-80°)	2466.1	18.2			G2/5000
FVH (80°-90°)	62.3	0.5			G1/100
BL (0°-30°)	1126.1	8.3	B3/2500		
BM (30°-60°)	3133.6	23.1	B3/5000		
BH (60°-80°)	2466.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	62.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8	2536.8
2.5°	2539.0	2541.9	2541.9	2539.7	2544.8	2540.4	2540.4	2538.3	2540.4	2538.3	2538.3
5°	2552.0	2555.6	2557.0	2556.3	2562.8	2559.2	2559.2	2556.3	2557.0	2554.9	2554.9
7.5°	2576.5	2581.6	2584.4	2588.0	2597.4	2593.1	2590.2	2581.6	2577.9	2572.2	2572.2
10°	2584.4	2590.2	2599.6	2618.3	2640.0	2640.7	2632.1	2610.4	2593.8	2580.8	2578.7
12.5°	2559.9	2567.8	2587.3	2625.6	2673.9	2693.4	2679.7	2643.6	2611.1	2588.0	2584.4
15°	2528.9	2537.5	2567.1	2624.8	2696.3	2741.7	2740.3	2692.7	2640.7	2604.6	2598.9
17.5°	2480.5	2489.2	2531.8	2612.6	2713.6	2788.6	2808.8	2759.8	2686.9	2638.6	2630.6
20°	2393.2	2401.2	2460.3	2573.6	2719.4	2838.4	2891.1	2847.8	2756.9	2691.2	2679.0
22.5°	2280.0	2292.2	2361.5	2506.5	2705.7	2890.4	2984.9	2955.3	2838.4	2747.5	2730.9
25°	2158.7	2171.7	2252.5	2424.3	2670.3	2927.9	3096.0	3077.2	2930.8	2817.5	2794.4
27.5°	2054.1	2067.8	2155.9	2342.7	2615.5	2942.3	3205.7	3215.0	3042.6	2894.7	2870.2
30°	1971.9	1984.9	2078.7	2277.1	2544.8	2927.9	3301.6	3366.6	3156.6	2961.8	2926.4
32.5°	1881.7	1898.3	1997.1	2197.0	2461.1	2893.2	3385.3	3530.3	3288.6	3033.9	2989.2
35°	1767.7	1782.8	1886.7	2087.3	2351.4	2837.7	3455.3	3712.2	3477.7	3143.6	3093.8
37.5°	1629.2	1643.6	1746.8	1950.2	2242.4	2759.8	3508.7	3917.1	3702.8	3301.6	3235.2
40°	1489.9	1503.6	1600.3	1797.3	2111.9	2660.2	3527.4	4117.6	3961.1	3518.8	3448.1
42.5°	1362.2	1374.5	1463.2	1646.5	1965.4	2533.2	3502.9	4292.2	4192.7	3670.3	3579.4
45°	1244.6	1255.4	1334.1	1505.1	1813.1	2378.8	3429.3	4479.8	4468.3	3778.5	3655.9
47.5°	1110.4	1121.2	1202.8	1368.0	1660.9	2197.7	3304.5	4664.5	4851.4	4023.8	3882.4
50°	946.6	956.0	1039.7	1210.0	1502.9	2005.1	3131.3	4809.6	5334.8	4395.4	4217.9
52.5°	752.5	762.6	844.2	1014.4	1315.3	1798.0	2903.3	4904.1	5893.3	4938.0	4719.4
55°	559.9	567.1	637.8	790.8	1083.0	1562.1	2617.6	4930.8	6526.8	5679.7	5406.3
57.5°	406.2	410.5	456.0	570.0	821.1	1267.0	2270.6	4861.5	7280.7	6630.7	6286.5
60°	329.0	330.5	344.2	394.7	570.7	933.6	1851.4	4623.4	8098.9	7856.5	7422.9
62.5°	298.7	298.7	302.3	316.0	386.0	616.2	1344.2	4129.9	8976.3	9405.6	8824.8
65°	277.8	277.8	279.2	285.7	304.5	392.5	848.5	3326.1	9715.8	11220.2	10485.7
67.5°	259.0	259.7	259.0	261.2	272.0	290.0	492.1	2297.3	10114.1	13100.4	12307.5
70°	239.5	241.0	237.4	237.4	246.0	246.8	308.1	1259.8	9783.6	14676.2	14467.7
72.5°	216.5	218.6	212.8	211.4	217.9	215.0	231.6	604.6	8399.8	15146.6	15694.9
75°	196.2	199.1	186.1	182.5	182.5	180.4	188.3	310.2	5451.7	12355.8	13215.8
77.5°	178.2	184.0	163.1	151.5	148.6	142.1	153.7	189.8	2384.6	5800.9	5680.4
80°	147.2	155.1	134.2	120.5	115.4	108.2	121.2	132.8	709.2	1347.1	1290.1
82.5°	109.7	113.3	95.2	85.9	81.5	76.5	90.9	92.4	230.9	476.9	539.0
85°	70.0	71.4	58.4	50.5	48.3	46.2	57.7	50.5	88.0	350.7	509.4
87.5°	24.5	28.1	22.4	20.2	21.6	18.0	26.7	15.2	24.5	247.5	306.6
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)