

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: P963543

Luminaire Tested: **NAV-SB3A-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

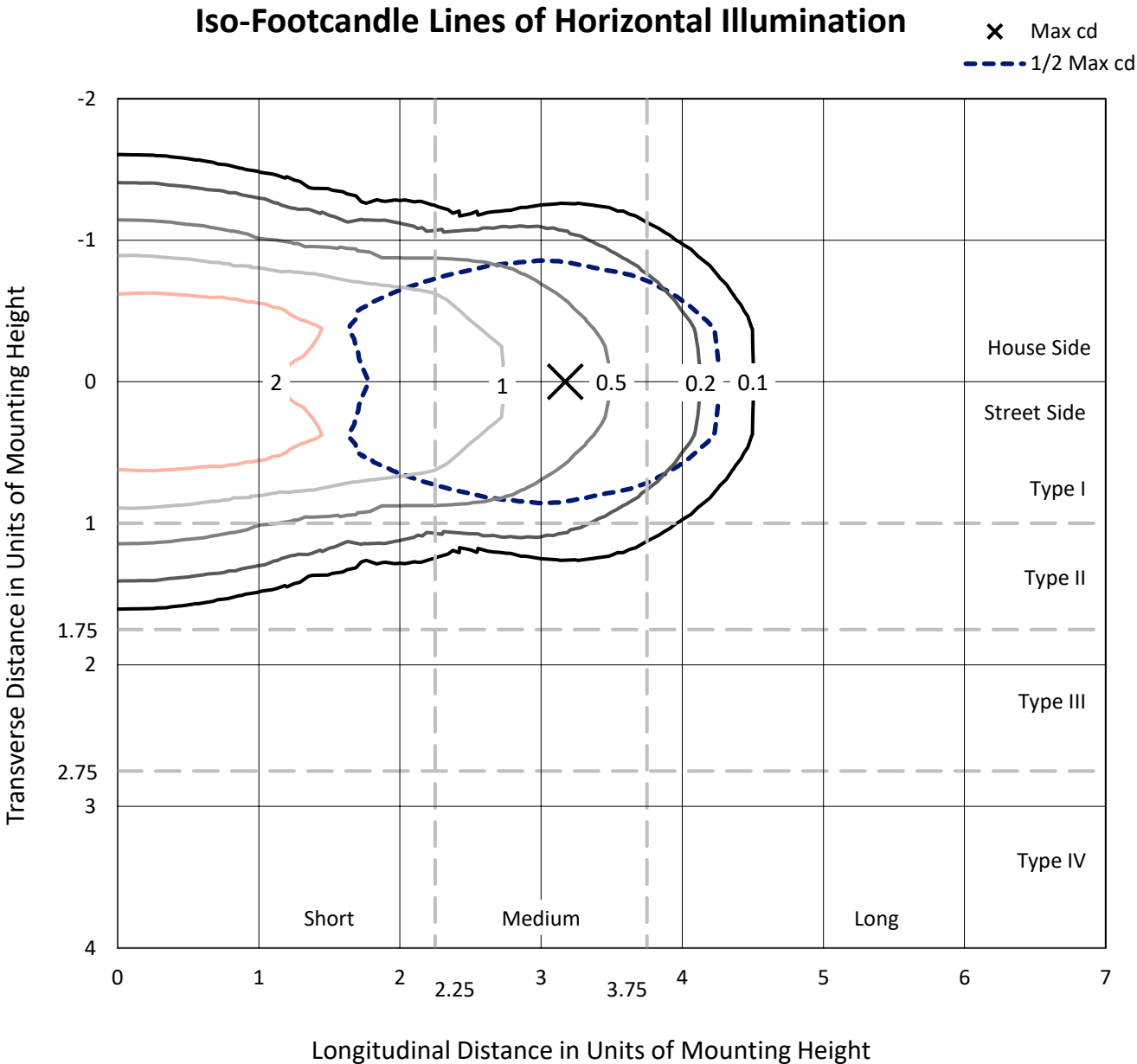
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14438.1 lumens
Efficiency: N/A
Efficacy: 170.5 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): 84.7
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



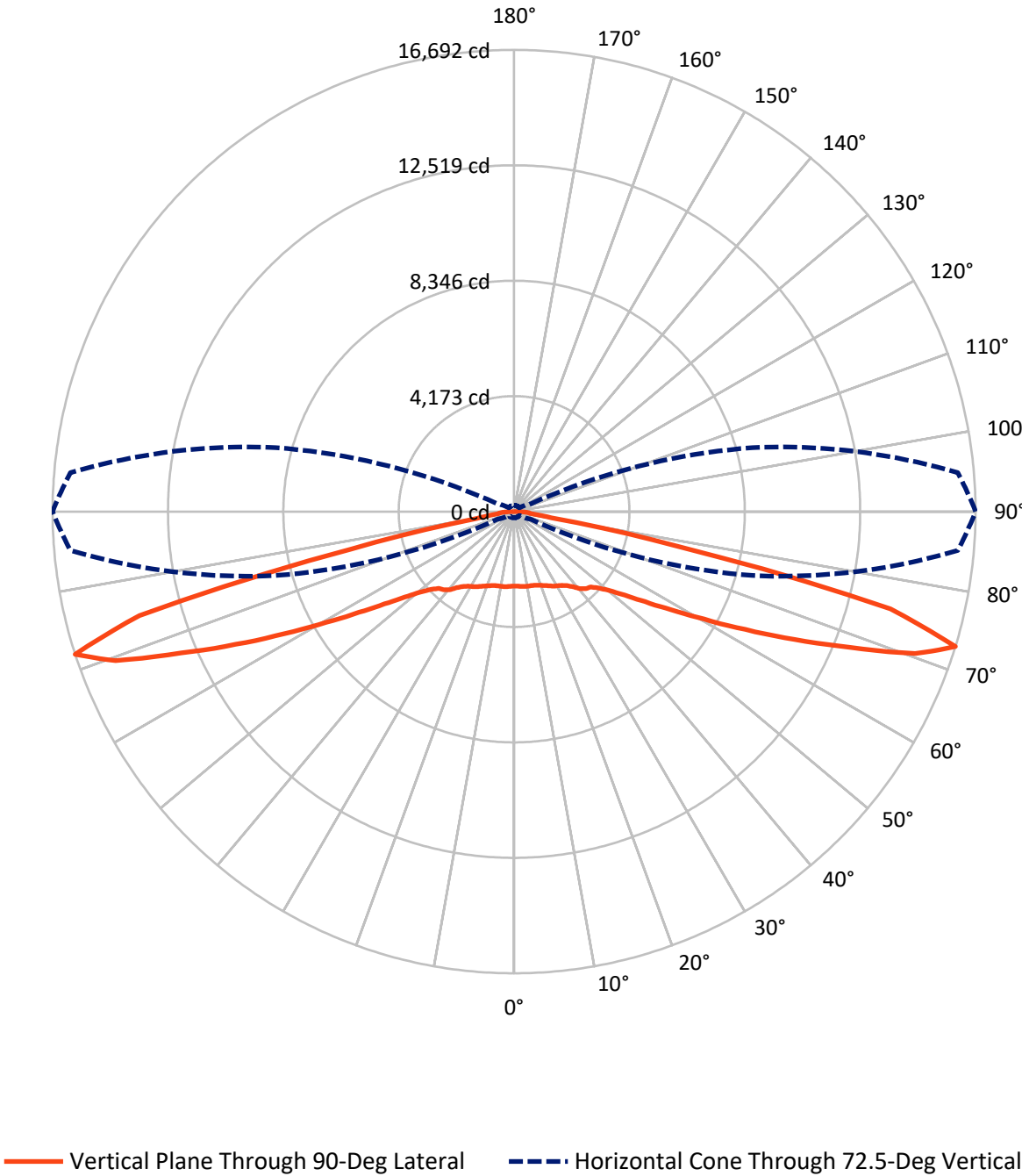
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Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7219.1	0.0	7219.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7219.1	0.0	7219.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14438.1	0.0	14438.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.8
10°-20°	799.9	5.5
20°-30°	1333.7	9.2
30°-40°	1834.2	12.7
40°-50°	2240.1	15.5
50°-60°	2590.9	17.9
60°-70°	3089.2	21.4
70°-80°	2156.1	14.9
80°-90°	132.4	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°	14438.1	100.0
0°-180°	14438.1	100.0

Coefficient of Utilization



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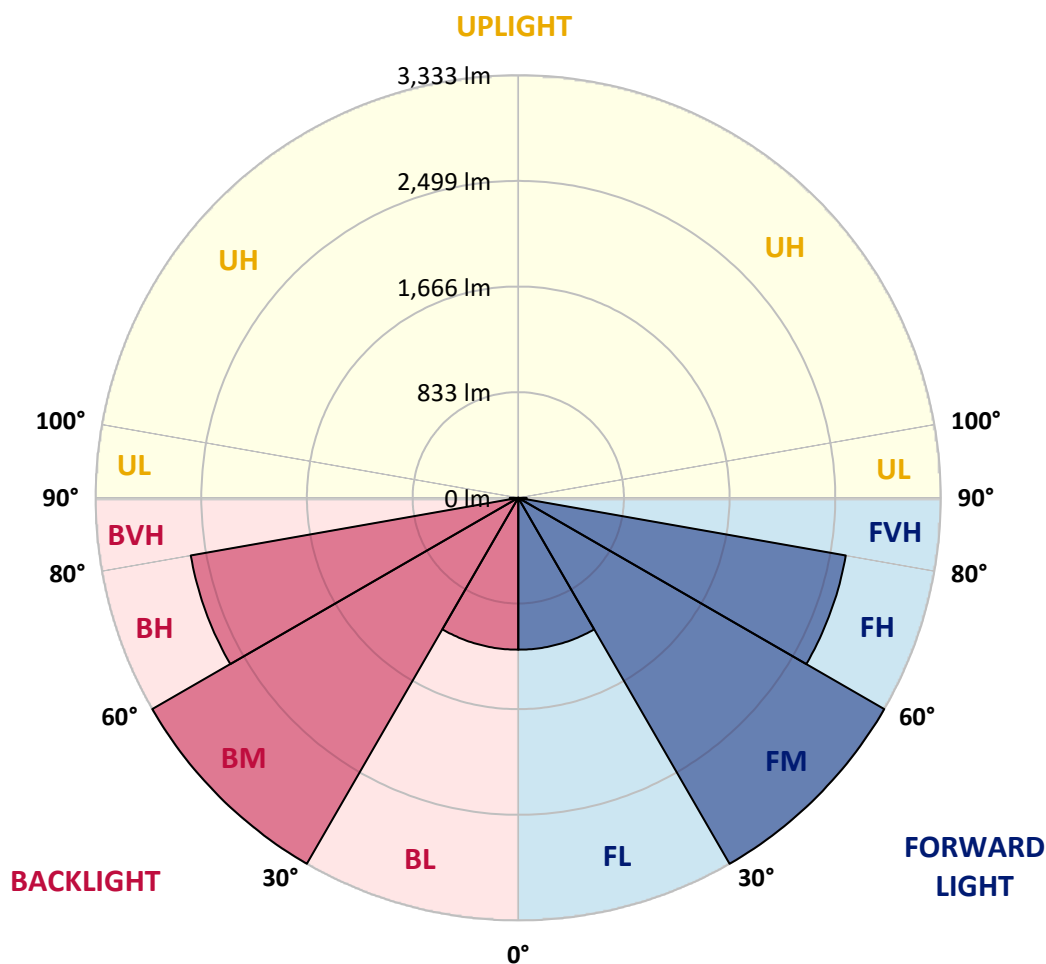
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.6	8.3			
FM	(30°-60°)	3332.6	23.1			
FH	(60°-80°)	2622.7	18.2			G2/5000
FVH	(80°-90°)	66.2	0.5			G1/100
BL	(0°-30°)	1197.6	8.3	B3/2500		
BM	(30°-60°)	3332.6	23.1	B3/5000		
BH	(60°-80°)	2622.7	18.2	B4/5000		G4/5000
BVH	(80°-90°)	66.2	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°	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9	2697.9
2.5°	2700.3	2703.3	2703.3	2701.0	2706.4	2701.8	2701.8	2699.4	2701.8	2699.4	2699.4
5°	2714.0	2717.9	2719.4	2718.6	2725.6	2721.7	2721.7	2718.6	2719.4	2717.1	2717.1
7.5°	2740.1	2745.5	2748.5	2752.4	2762.4	2757.8	2754.7	2745.5	2741.7	2735.5	2735.5
10°	2748.5	2754.7	2764.6	2784.6	2807.7	2808.4	2799.2	2776.2	2758.6	2744.7	2742.4
12.5°	2722.5	2730.9	2751.6	2792.3	2843.8	2864.5	2849.8	2811.5	2776.9	2752.4	2748.5
15°	2689.5	2698.7	2730.2	2791.5	2867.5	2915.8	2914.3	2863.6	2808.4	2770.1	2763.9
17.5°	2638.0	2647.3	2692.6	2778.5	2885.9	2965.7	2987.2	2935.0	2857.5	2806.1	2797.6
20°	2545.2	2553.7	2616.6	2737.1	2892.0	3018.6	3074.7	3028.7	2931.9	2862.1	2849.1
22.5°	2424.7	2437.8	2511.5	2665.7	2877.5	3073.9	3174.4	3143.0	3018.6	2922.0	2904.3
25°	2295.8	2309.6	2395.6	2578.2	2839.9	3113.8	3292.6	3272.6	3116.9	2996.4	2971.9
27.5°	2184.6	2199.1	2292.8	2491.5	2781.5	3129.1	3409.3	3419.2	3235.8	3078.5	3052.4
30°	2097.1	2110.9	2210.6	2421.7	2706.4	3113.8	3511.2	3580.3	3357.1	3149.8	3112.3
32.5°	2001.2	2018.8	2124.0	2336.5	2617.3	3076.9	3600.3	3754.6	3497.5	3226.6	3179.0
35°	1880.0	1896.0	2006.5	2219.8	2500.7	3017.9	3674.7	3947.9	3698.5	3343.2	3290.2
37.5°	1732.7	1747.9	1857.7	2074.1	2384.9	2935.0	3731.5	4165.8	3937.9	3511.2	3440.7
40°	1584.5	1599.1	1701.9	1911.4	2246.0	2829.1	3751.5	4379.1	4212.6	3742.3	3667.0
42.5°	1448.7	1461.8	1556.2	1751.0	2090.2	2694.1	3725.4	4564.8	4459.0	3903.4	3806.7
45°	1323.7	1335.2	1418.8	1600.6	1928.3	2529.9	3647.2	4764.3	4752.1	4018.5	3888.0
47.5°	1180.9	1192.4	1279.1	1454.9	1766.4	2337.3	3514.3	4960.8	5159.5	4279.4	4129.0
50°	1006.8	1016.7	1105.7	1286.8	1598.4	2132.4	3330.2	5115.0	5673.6	4674.5	4485.8
52.5°	800.3	811.1	897.8	1078.8	1398.8	1912.1	3087.7	5215.5	6267.6	5251.6	5019.1
55°	595.4	603.1	678.3	841.0	1151.8	1661.2	2783.9	5243.9	6941.2	6040.4	5749.5
57.5°	432.0	436.6	484.9	606.2	873.2	1347.5	2414.8	5170.2	7743.1	7051.7	6685.8
60°	349.9	351.5	366.0	419.7	607.0	992.9	1968.9	4917.0	8613.3	8355.4	7894.2
62.5°	317.6	317.6	321.5	336.1	410.5	655.3	1429.6	4392.2	9546.3	10002.9	9385.2
65°	295.4	295.4	296.9	303.9	323.8	417.4	902.4	3537.4	10332.8	11932.7	11151.6
67.5°	275.5	276.2	275.5	277.8	289.3	308.4	523.4	2443.2	10756.3	13932.3	13089.0
70°	254.7	256.2	252.5	252.5	261.7	262.4	327.7	1339.8	10405.0	15608.2	15386.5
72.5°	230.2	232.5	226.3	224.8	231.8	228.7	246.3	643.0	8933.2	16108.5	16691.6
75°	208.7	211.8	197.9	194.1	194.1	191.9	200.3	329.9	5797.9	13140.5	14055.1
77.5°	189.5	195.7	173.4	161.1	158.1	151.2	163.5	201.8	2536.1	6169.3	6041.1
80°	156.5	165.0	142.7	128.1	122.8	115.1	128.9	141.1	754.3	1432.6	1372.0
82.5°	116.6	120.4	101.3	91.3	86.7	81.4	96.7	98.2	245.6	507.2	573.2
85°	74.4	76.0	62.1	53.7	51.5	49.1	61.4	53.7	93.6	372.9	541.7
87.5°	26.1	29.9	23.8	21.5	23.1	19.2	28.4	16.1	26.1	263.2	326.2
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)