

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: P965620

Luminaire Tested: **NAV-SB4A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965620
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-SB4A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

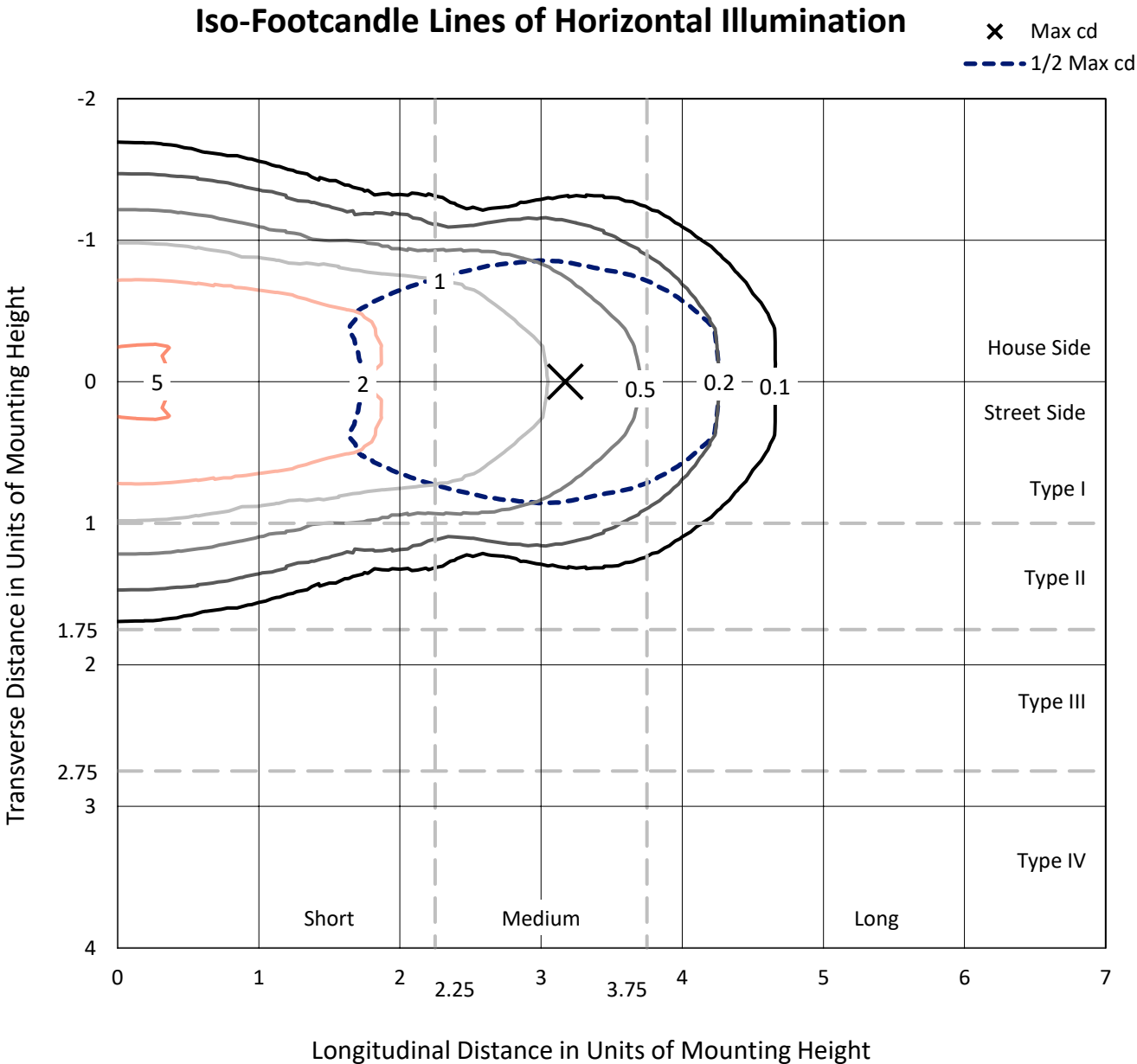
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18229.6 lumens
Efficiency: N/A
Efficacy: 159.9 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): 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



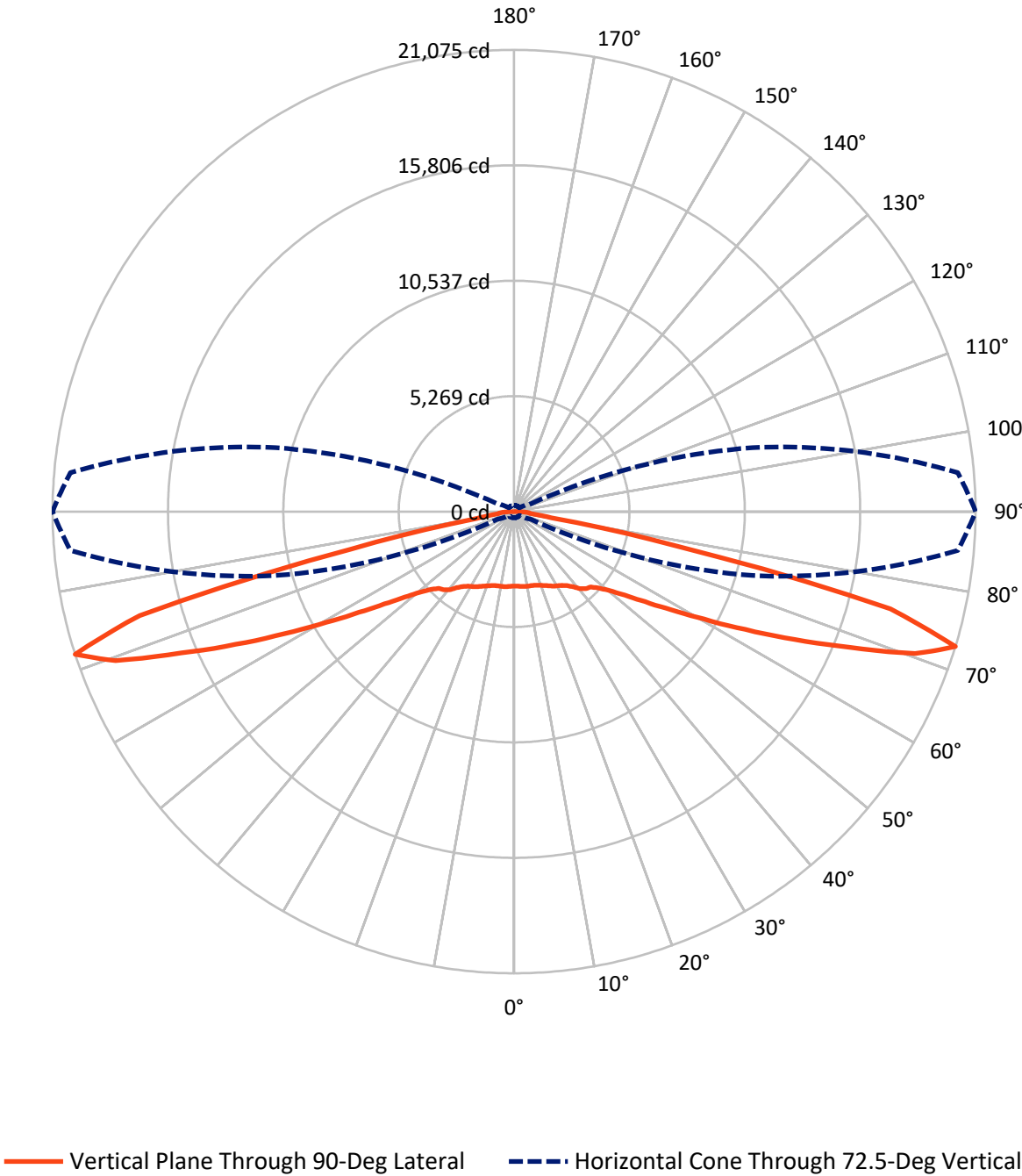
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Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9114.8	0.0	9114.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9114.8	0.0	9114.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	18229.6	0.0	18229.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	1.8
10°-20°	1009.9	5.5
20°-30°	1683.9	9.2
30°-40°	2315.9	12.7
40°-50°	2828.3	15.5
50°-60°	3271.3	17.9
60°-70°	3900.5	21.4
70°-80°	2722.3	14.9
80°-90°	167.2	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°	18229.6	100.0
0°-180°	18229.6	100.0

Coefficient of Utilization



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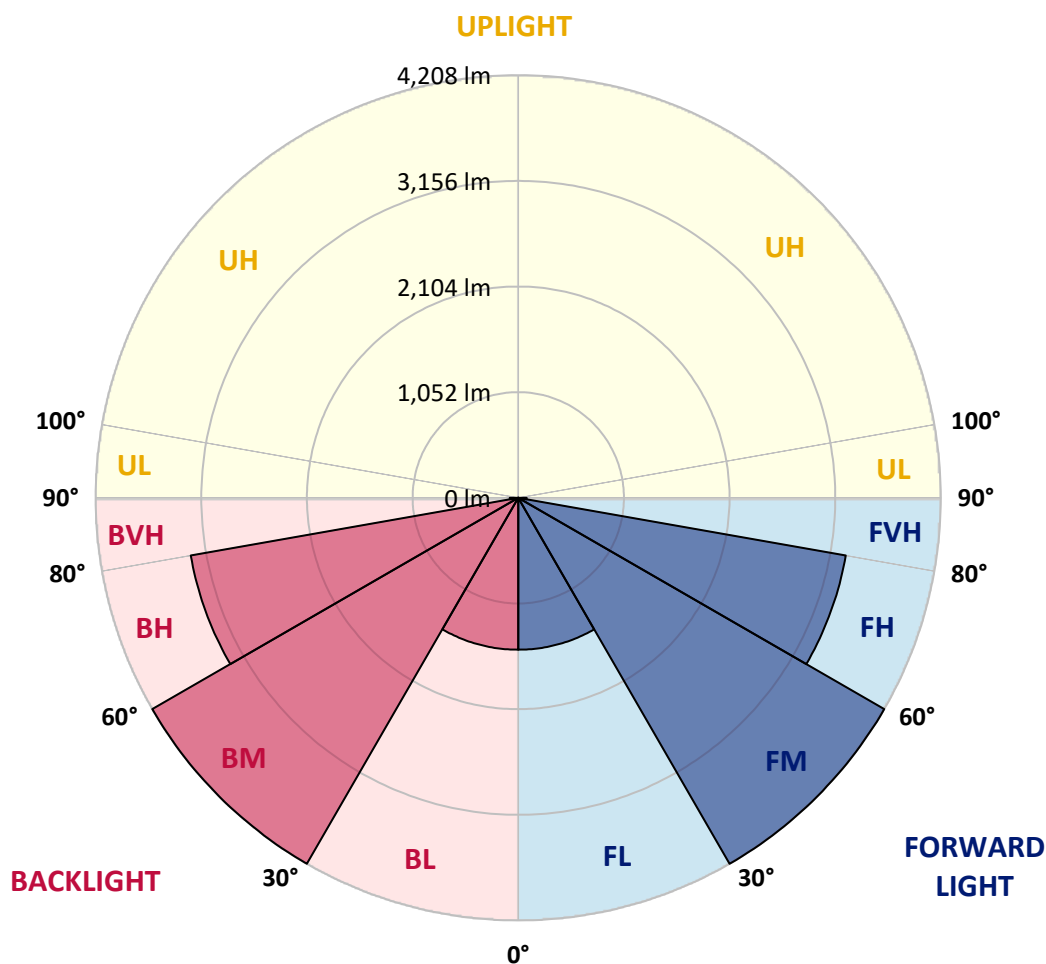
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1512.1	8.3			
FM	(30°-60°)	4207.8	23.1			
FH	(60°-80°)	3311.4	18.2			G2/5000
FVH	(80°-90°)	83.6	0.5			G1/100
BL	(0°-30°)	1512.1	8.3	B3/2500		
BM	(30°-60°)	4207.8	23.1	B3/5000		
BH	(60°-80°)	3311.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	83.6	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°	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4	3406.4
2.5°	3409.4	3413.1	3413.1	3410.3	3417.0	3411.2	3411.2	3408.3	3411.2	3408.3	3408.3
5°	3426.8	3431.6	3433.5	3432.5	3441.2	3436.4	3436.4	3432.5	3433.5	3430.6	3430.6
7.5°	3459.7	3466.4	3470.3	3475.2	3487.8	3481.9	3478.1	3466.4	3461.6	3453.8	3453.8
10°	3470.3	3478.1	3490.6	3515.9	3545.0	3545.9	3534.3	3505.2	3483.0	3465.5	3462.6
12.5°	3437.4	3448.1	3474.2	3525.6	3590.5	3616.6	3598.3	3549.8	3506.2	3475.2	3470.3
15°	3395.7	3407.4	3447.1	3524.6	3620.5	3681.6	3679.6	3615.7	3545.9	3497.5	3489.7
17.5°	3330.8	3342.4	3399.6	3508.2	3643.8	3744.5	3771.7	3705.8	3607.9	3543.0	3532.4
20°	3213.6	3224.2	3303.7	3455.8	3651.5	3811.4	3882.1	3824.0	3701.9	3613.7	3597.2
22.5°	3061.5	3078.0	3170.9	3365.7	3633.1	3881.2	4008.1	3968.3	3811.4	3689.3	3667.0
25°	2898.7	2916.1	3024.7	3255.3	3585.7	3931.5	4157.2	4132.1	3935.4	3783.3	3752.3
27.5°	2758.3	2776.6	2894.9	3145.8	3512.0	3950.9	4304.5	4317.1	4085.5	3886.9	3854.0
30°	2647.8	2665.2	2791.2	3057.6	3417.0	3931.5	4433.3	4520.6	4238.6	3977.0	3929.5
32.5°	2526.7	2549.0	2681.7	2950.1	3304.7	3885.0	4545.8	4740.5	4415.9	4074.0	4013.9
35°	2373.6	2394.0	2533.5	2802.9	3157.4	3810.4	4639.8	4984.6	4669.8	4221.2	4154.3
37.5°	2187.7	2207.0	2345.5	2618.8	3011.1	3705.8	4711.4	5259.8	4972.1	4433.3	4344.3
40°	2000.6	2019.0	2148.8	2413.4	2835.8	3572.0	4736.6	5529.1	5318.8	4724.9	4630.0
42.5°	1829.1	1845.6	1964.8	2210.8	2639.1	3401.6	4703.6	5763.6	5629.8	4928.4	4806.3
45°	1671.3	1685.7	1791.4	2021.0	2434.7	3194.2	4604.8	6015.4	5999.9	5073.8	4909.0
47.5°	1491.1	1505.5	1615.0	1836.9	2230.2	2951.1	4437.2	6263.5	6514.4	5403.2	5213.3
50°	1271.1	1283.7	1396.0	1624.7	2018.0	2692.4	4204.8	6458.2	7163.5	5902.1	5663.7
52.5°	1010.4	1024.1	1133.5	1362.1	1766.2	2414.3	3898.6	6585.1	7913.4	6630.6	6337.1
55°	751.8	761.5	856.5	1061.8	1454.2	2097.6	3514.9	6621.0	8764.1	7626.6	7259.5
57.5°	545.4	551.2	612.3	765.4	1102.5	1701.3	3048.9	6527.9	9776.4	8903.6	8441.4
60°	441.8	443.7	462.2	529.9	766.4	1253.7	2486.0	6208.2	10875.0	10549.6	9967.3
62.5°	401.1	401.1	405.9	424.4	518.3	827.4	1804.9	5545.6	12053.2	12629.6	11849.7
65°	373.0	373.0	374.9	383.7	408.9	527.1	1139.4	4466.3	13046.2	15066.3	14080.0
67.5°	347.8	348.8	347.8	350.8	365.2	389.5	660.7	3084.7	13581.0	17591.0	16526.3
70°	321.6	323.6	318.8	318.8	330.4	331.4	413.7	1691.6	13137.3	19707.0	19426.9
72.5°	290.7	293.6	285.8	283.8	292.5	288.7	311.0	811.9	11279.1	20338.6	21074.9
75°	263.5	267.4	250.0	245.1	245.1	242.2	252.9	416.6	7320.4	16591.2	17746.0
77.5°	239.3	247.0	218.9	203.5	199.6	190.9	206.3	254.8	3202.0	7789.4	7627.5
80°	197.6	208.3	180.2	161.7	155.0	145.3	162.8	178.2	952.3	1808.8	1732.2
82.5°	147.3	152.1	127.9	115.3	109.5	102.7	122.1	124.0	310.1	640.4	723.8
85°	94.0	95.9	78.5	67.9	64.9	62.0	77.5	67.9	118.2	470.9	684.0
87.5°	32.9	37.8	30.0	27.2	29.1	24.2	35.9	20.3	32.9	332.3	411.7
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)