

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: P963481

Luminaire Tested: **NAV-SB3A-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963481
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-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13646.9 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

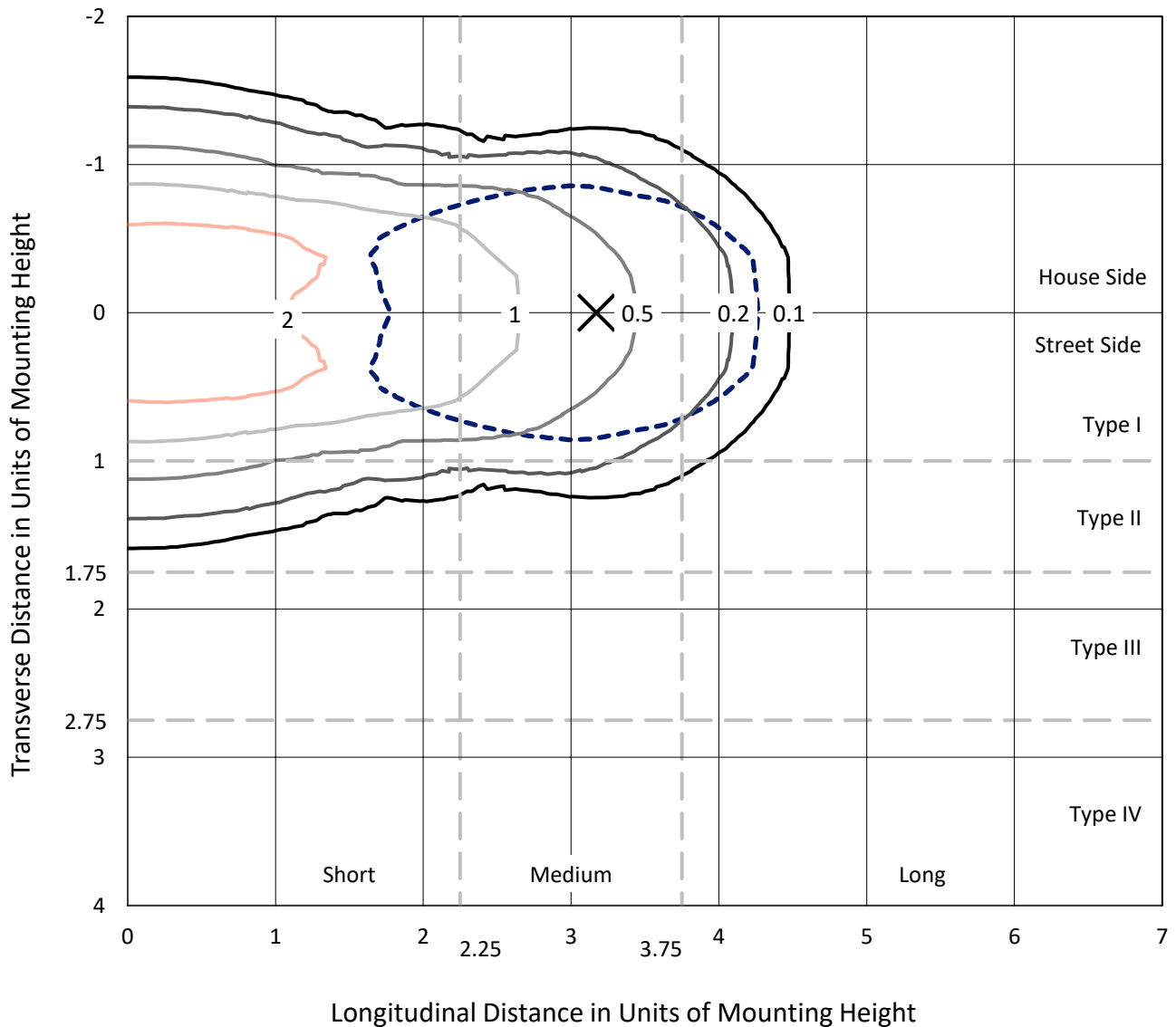
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

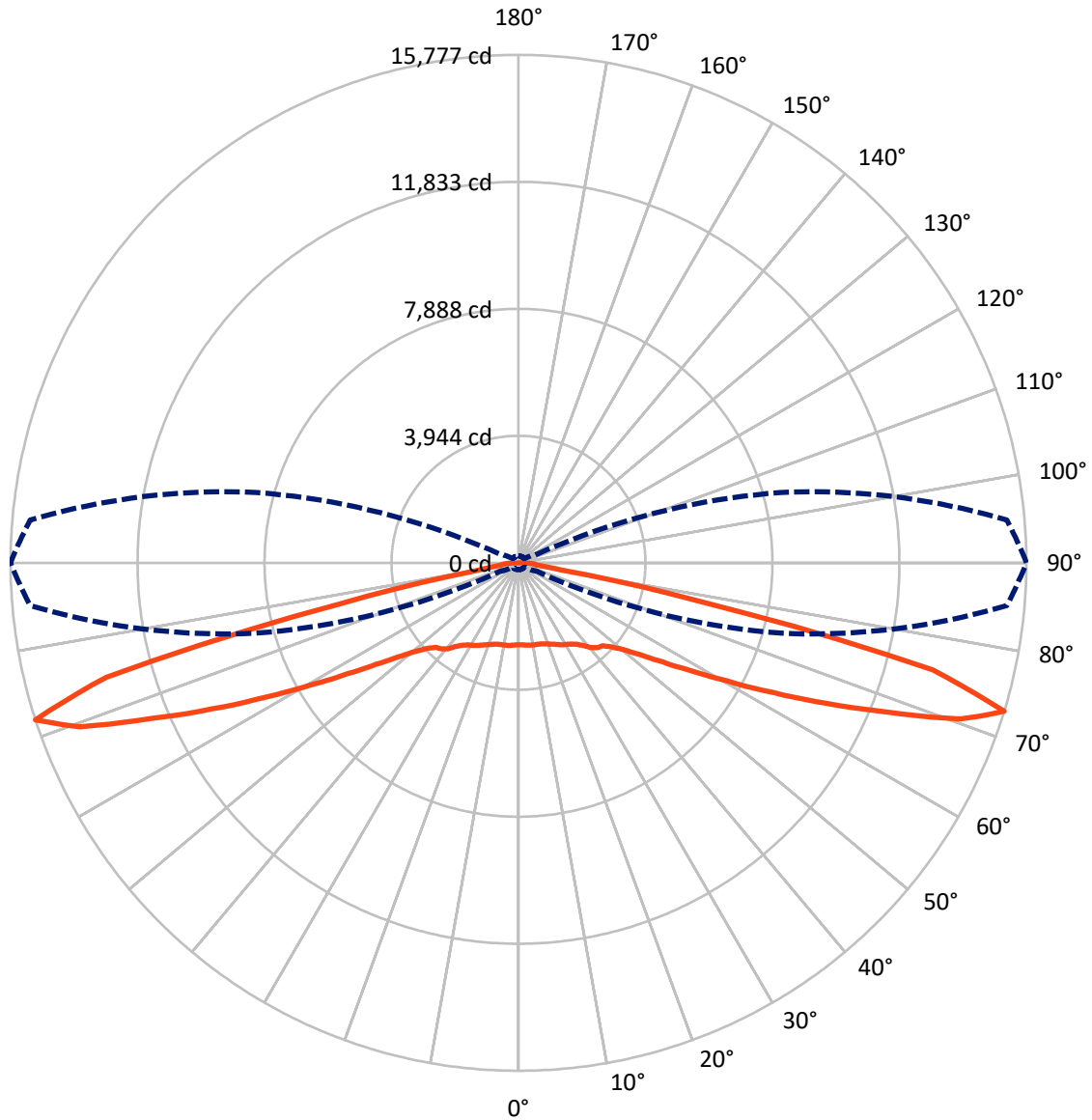
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6823.4	0.0	6823.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6823.4	0.0	6823.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13646.9	0.0	13646.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.3	1.8
10°-20°	756.0	5.5
20°-30°	1260.6	9.2
30°-40°	1733.7	12.7
40°-50°	2117.3	15.5
50°-60°	2448.9	17.9
60°-70°	2919.9	21.4
70°-80°	2037.9	14.9
80°-90°	125.2	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°	13646.9	100.0
0°-180°	13646.9	100.0

Coefficient of Utilization



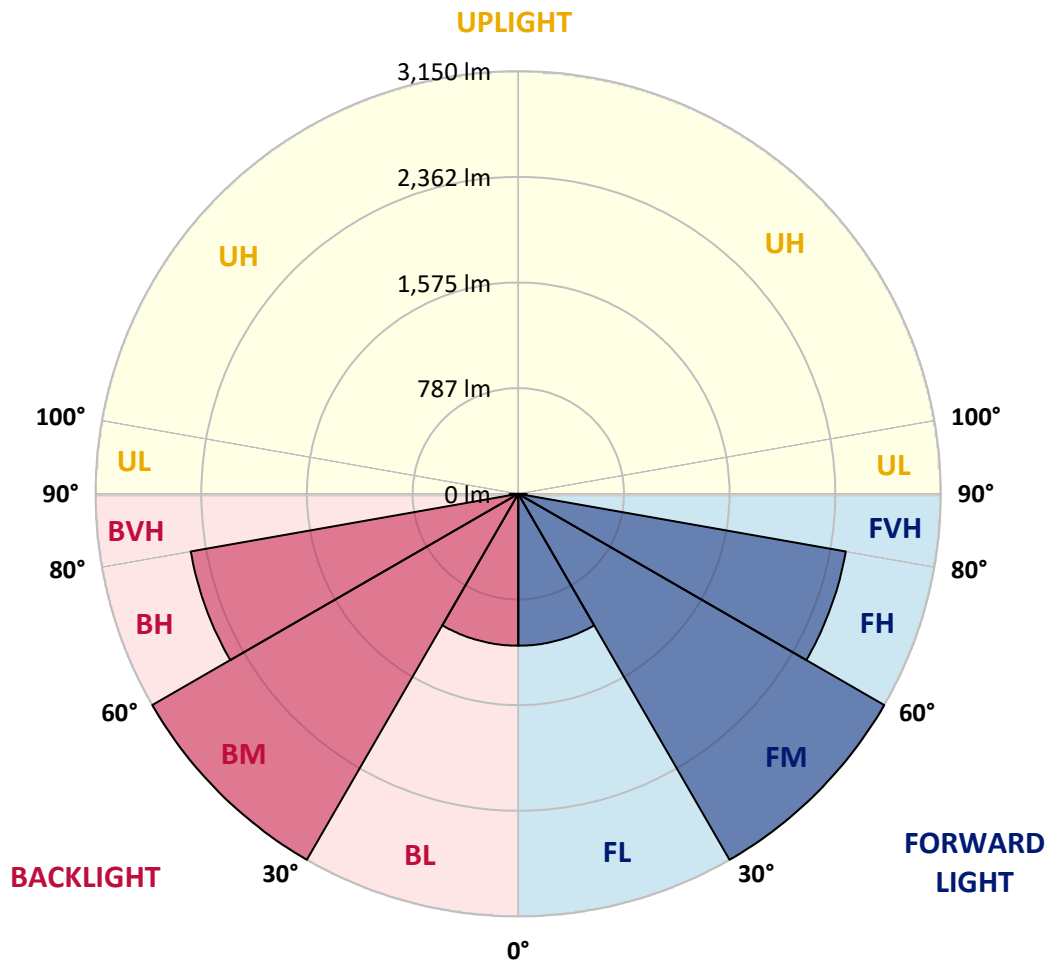
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	8.3			
FM (30°-60°)	3150.0	23.1			
FH (60°-80°)	2478.9	18.2			G2/5000
FVH (80°-90°)	62.6	0.5			G1/100
BL (0°-30°)	1131.9	8.3	B3/2500		
BM (30°-60°)	3150.0	23.1	B3/5000		
BH (60°-80°)	2478.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	62.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1	2550.1
2.5°	2552.2	2555.1	2555.1	2553.0	2558.0	2553.7	2553.7	2551.5	2553.7	2551.5	2551.5
5°	2565.3	2569.0	2570.4	2569.7	2576.1	2572.5	2572.5	2569.7	2570.4	2568.2	2568.2
7.5°	2590.0	2595.0	2598.0	2601.6	2611.0	2606.7	2603.7	2595.0	2591.4	2585.6	2585.6
10°	2598.0	2603.7	2613.1	2632.0	2653.7	2654.5	2645.8	2624.0	2607.4	2594.3	2592.1
12.5°	2573.3	2581.3	2600.8	2639.3	2687.9	2707.4	2693.7	2657.4	2624.7	2601.6	2598.0
15°	2542.1	2550.8	2580.5	2638.6	2710.3	2756.0	2754.6	2706.7	2654.5	2618.3	2612.4
17.5°	2493.5	2502.2	2545.0	2626.3	2727.7	2803.2	2823.5	2774.2	2700.9	2652.3	2644.3
20°	2405.8	2413.7	2473.2	2587.0	2733.6	2853.2	2906.2	2862.6	2771.3	2705.3	2693.0
22.5°	2291.9	2304.2	2373.8	2519.6	2719.7	2905.5	3000.5	2970.8	2853.2	2761.9	2745.2
25°	2170.0	2183.0	2264.3	2436.9	2684.3	2943.2	3112.1	3093.2	2946.1	2832.2	2809.0
27.5°	2064.9	2078.6	2167.2	2354.9	2629.1	2957.6	3222.4	3231.8	3058.5	2909.8	2885.2
30°	1982.1	1995.3	2089.5	2288.9	2558.0	2943.2	3318.8	3384.1	3173.1	2977.2	2941.7
32.5°	1891.5	1908.2	2007.6	2208.5	2473.9	2908.3	3403.0	3548.8	3305.8	3049.8	3004.8
35°	1776.9	1792.1	1896.6	2098.2	2363.6	2852.5	3473.3	3731.5	3495.8	3160.0	3110.0
37.5°	1637.6	1652.2	1755.9	1960.4	2254.2	2774.2	3527.0	3937.5	3722.1	3318.8	3252.1
40°	1497.7	1511.5	1608.6	1806.7	2122.9	2674.1	3545.9	4139.2	3981.7	3537.2	3466.0
42.5°	1369.3	1381.6	1470.9	1655.1	1975.7	2546.4	3521.2	4314.6	4214.6	3689.5	3598.1
45°	1251.1	1262.0	1341.0	1512.9	1822.7	2391.2	3447.2	4503.2	4491.7	3798.2	3674.9
47.5°	1116.2	1127.1	1209.0	1375.1	1669.6	2209.2	3321.7	4688.9	4876.7	4044.9	3902.7
50°	951.5	960.9	1045.1	1216.3	1510.7	2015.6	3147.7	4834.6	5362.7	4418.4	4239.9
52.5°	756.4	766.6	848.6	1019.8	1322.1	1807.4	2918.5	4929.6	5924.0	4963.8	4744.0
55°	562.8	570.1	641.1	794.9	1088.7	1570.2	2631.3	4956.5	6560.8	5709.4	5434.4
57.5°	408.4	412.7	458.4	573.0	825.3	1273.6	2282.5	4886.9	7318.7	6665.3	6319.3
60°	330.8	332.2	345.9	396.7	573.7	938.5	1861.1	4647.6	8141.2	7897.5	7461.6
62.5°	300.2	300.2	303.9	317.6	388.1	619.4	1351.2	4151.5	9023.1	9454.7	8870.8
65°	279.2	279.2	280.6	287.2	306.1	394.5	852.9	3343.6	9766.5	11278.7	10540.4
67.5°	260.3	261.1	260.3	262.5	273.5	291.5	494.7	2309.2	10166.9	13168.8	12371.6
70°	240.8	242.2	238.6	238.6	247.3	248.0	309.7	1266.3	9834.7	14752.7	14543.2
72.5°	217.6	219.8	213.9	212.5	219.0	216.2	232.8	607.8	8443.6	15225.7	15776.9
75°	197.3	200.2	187.2	183.5	183.5	181.3	189.3	311.9	5480.2	12420.3	13284.8
77.5°	179.2	184.9	163.9	152.3	149.4	142.9	154.5	190.8	2397.1	5831.2	5710.1
80°	147.9	155.9	134.9	121.2	116.0	108.8	121.9	133.5	713.0	1354.1	1296.8
82.5°	110.3	113.9	95.7	86.3	82.0	76.9	91.4	92.9	232.1	479.4	541.8
85°	70.3	71.9	58.7	50.7	48.6	46.4	58.0	50.7	88.5	352.5	512.1
87.5°	24.7	28.3	22.4	20.3	21.7	18.1	26.9	15.3	24.7	248.8	308.2
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)