

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: P962613

Luminaire Tested: **NAV-SB2C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962613
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-SB2C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

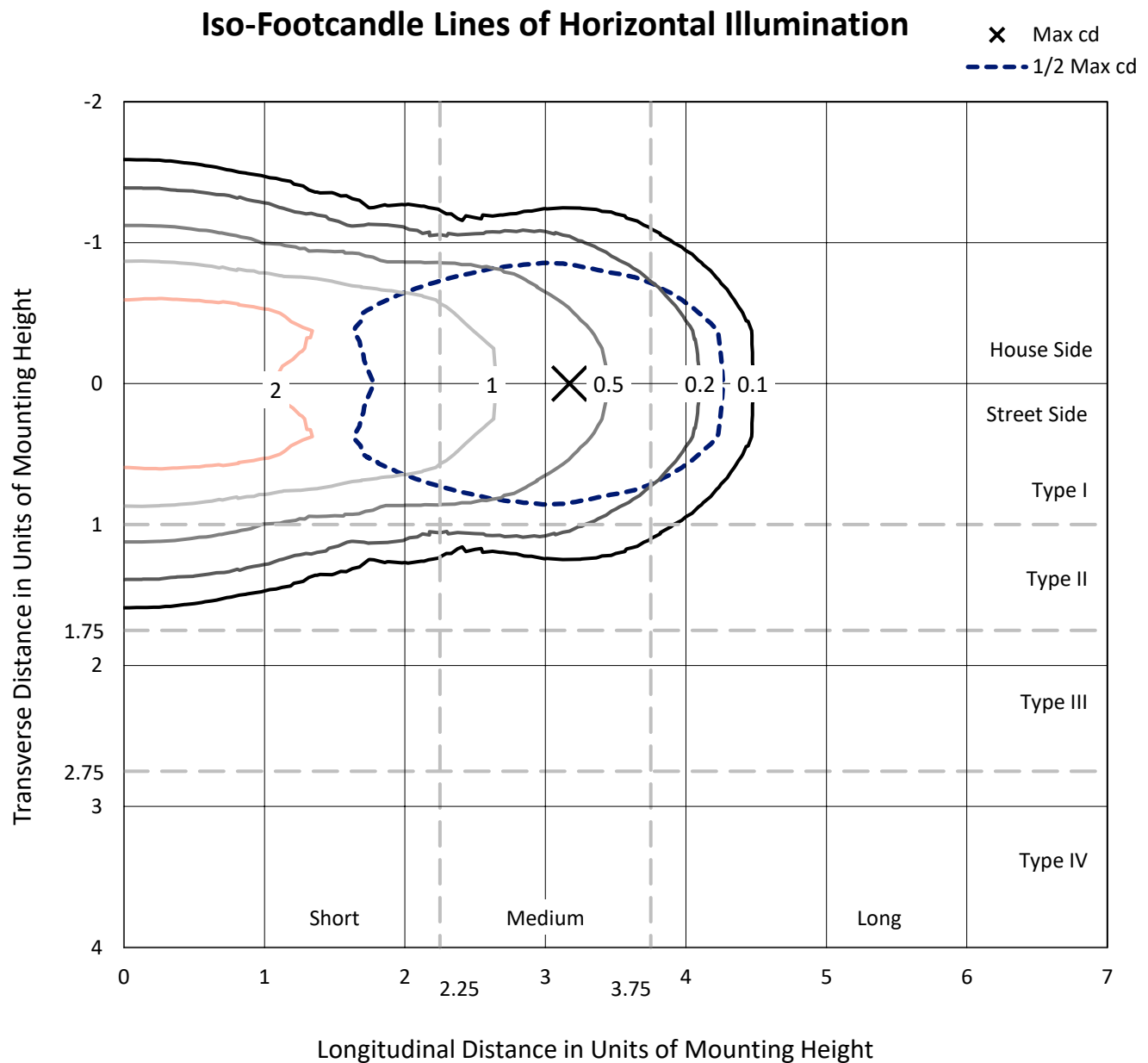
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13645.9 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9
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



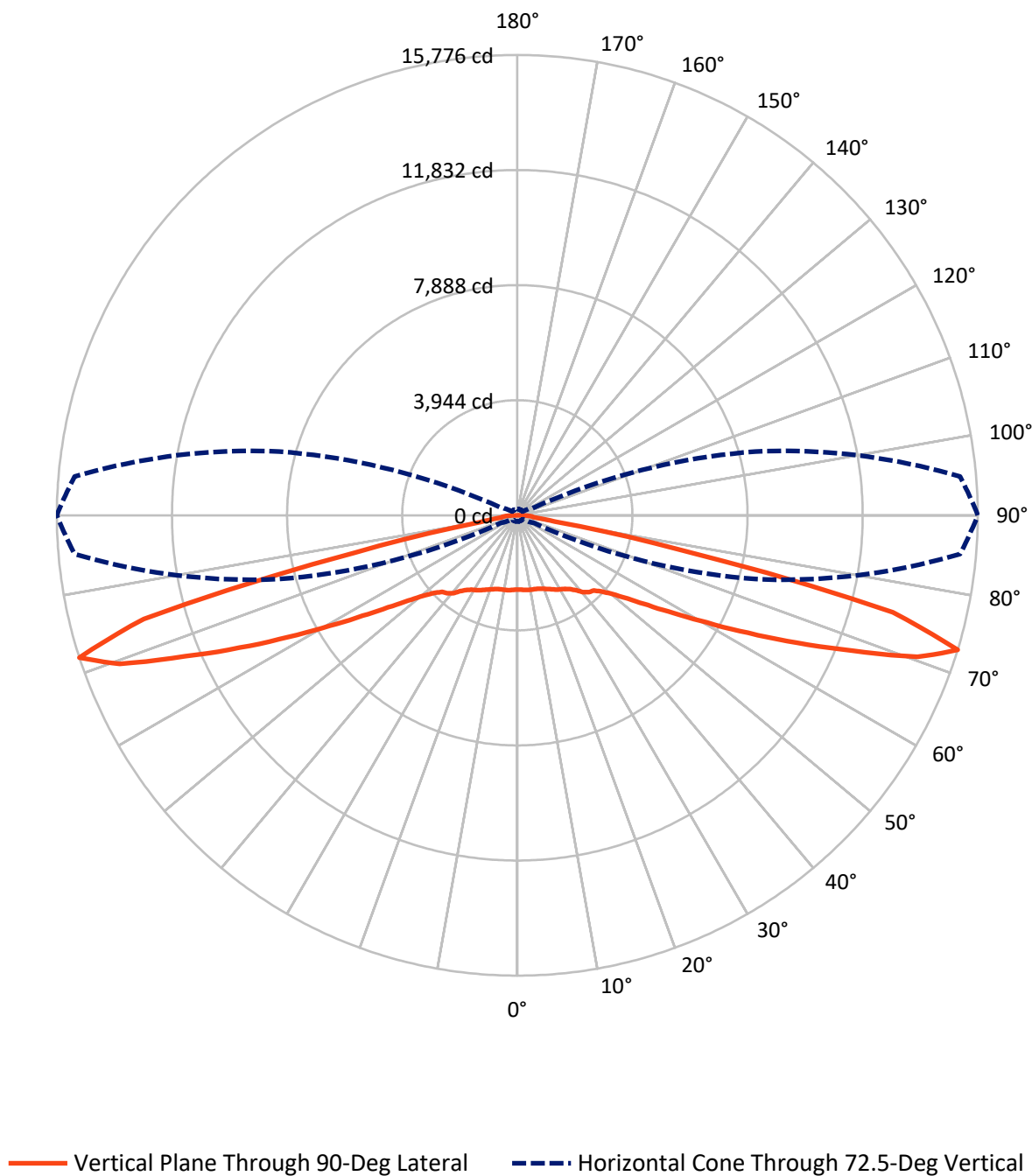
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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6822.9	0.0	6822.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6822.9	0.0	6822.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	13645.9	0.0	13645.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	1.8
10°-20°	756.0	5.5
20°-30°	1260.5	9.2
30°-40°	1733.6	12.7
40°-50°	2117.2	15.5
50°-60°	2448.7	17.9
60°-70°	2919.7	21.4
70°-80°	2037.8	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°	13645.9	100.0
0°-180°	13645.9	100.0

Coefficient of Utilization



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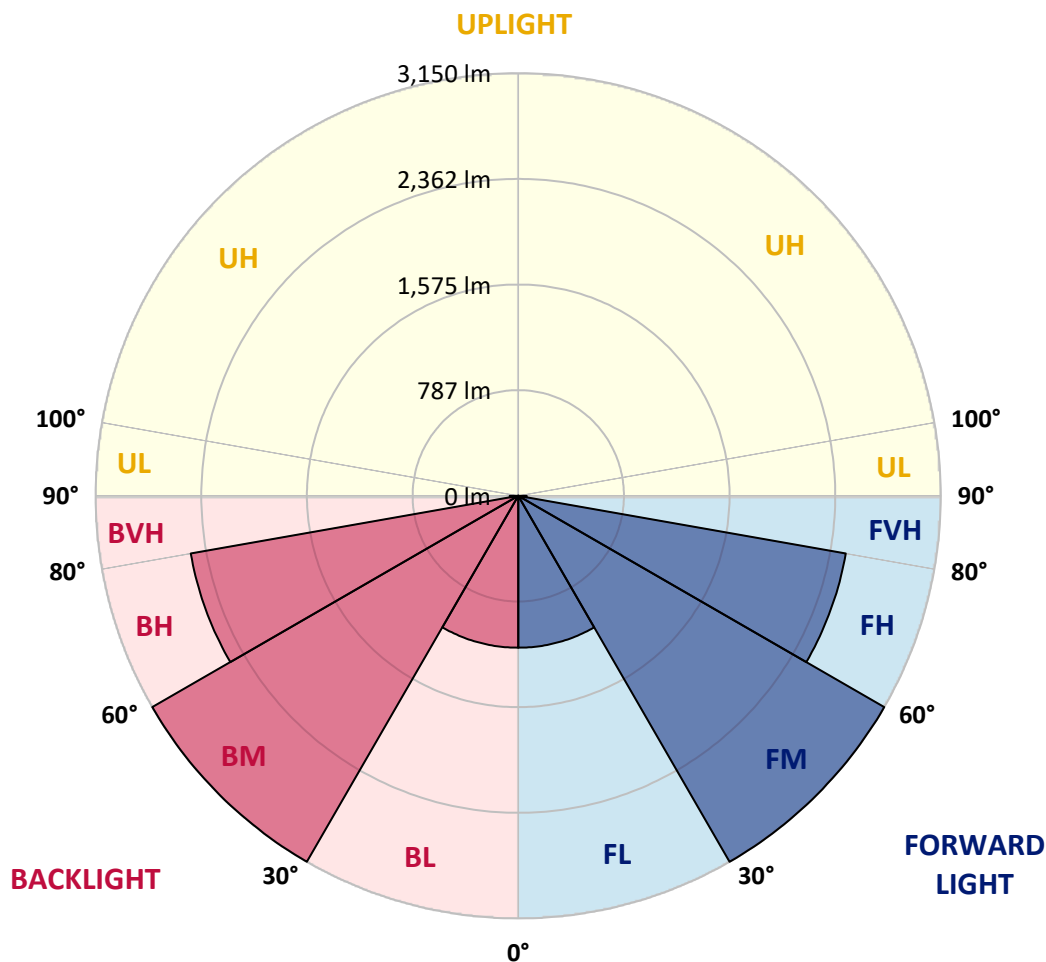
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1131.9	8.3			
FM	(30°-60°)	3149.7	23.1			
FH	(60°-80°)	2478.7	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°)	3149.7	23.1	B3/5000		
BH	(60°-80°)	2478.7	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°	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9	2549.9
2.5°	2552.0	2554.9	2554.9	2552.8	2557.9	2553.5	2553.5	2551.3	2553.5	2551.3	2551.3
5°	2565.1	2568.8	2570.2	2569.5	2575.9	2572.3	2572.3	2569.5	2570.2	2568.0	2568.0
7.5°	2589.8	2594.8	2597.8	2601.3	2610.8	2606.5	2603.5	2594.8	2591.2	2585.4	2585.4
10°	2597.8	2603.5	2612.9	2631.8	2653.6	2654.3	2645.6	2623.8	2607.2	2594.1	2591.9
12.5°	2573.1	2581.1	2600.6	2639.1	2687.7	2707.2	2693.5	2657.2	2624.6	2601.3	2597.8
15°	2541.9	2550.6	2580.3	2638.4	2710.1	2755.8	2754.4	2706.5	2654.3	2618.1	2612.2
17.5°	2493.3	2502.0	2544.8	2626.0	2727.5	2803.0	2823.3	2774.0	2700.7	2652.1	2644.2
20°	2405.6	2413.6	2473.0	2586.9	2733.4	2853.0	2906.0	2862.4	2771.1	2705.1	2692.8
22.5°	2291.7	2304.0	2373.6	2519.4	2719.5	2905.3	3000.3	2970.4	2853.0	2761.7	2745.0
25°	2169.8	2182.9	2264.1	2436.7	2684.1	2943.0	3111.9	3093.0	2945.8	2832.0	2808.8
27.5°	2064.7	2078.5	2167.0	2354.7	2628.9	2957.4	3222.2	3231.6	3058.3	2909.6	2885.0
30°	1982.0	1995.1	2089.4	2288.8	2557.9	2943.0	3318.6	3383.8	3172.8	2977.0	2941.4
32.5°	1891.3	1908.0	2007.4	2208.3	2473.7	2908.1	3402.7	3548.4	3305.5	3049.6	3004.6
35°	1776.7	1792.0	1896.5	2098.1	2363.4	2852.3	3473.1	3731.2	3495.6	3159.8	3109.7
37.5°	1637.5	1652.1	1755.7	1960.3	2254.0	2774.0	3526.7	3937.2	3721.8	3318.6	3251.9
40°	1497.5	1511.4	1608.5	1806.6	2122.7	2673.9	3545.6	4138.8	3981.4	3536.9	3465.8
42.5°	1369.2	1381.5	1470.8	1655.0	1975.5	2546.2	3521.0	4314.3	4214.3	3689.2	3597.9
45°	1251.0	1261.9	1340.9	1512.8	1822.4	2391.0	3447.0	4502.9	4491.2	3797.9	3674.7
47.5°	1116.1	1127.0	1209.0	1375.0	1669.4	2209.0	3321.5	4688.6	4876.3	4044.5	3902.4
50°	951.5	960.9	1045.1	1216.2	1510.6	2015.4	3147.5	4834.3	5362.3	4418.1	4239.6
52.5°	756.4	766.6	848.5	1019.7	1322.0	1807.3	2918.3	4929.3	5923.6	4963.4	4743.7
55°	562.7	570.0	641.1	794.9	1088.6	1570.1	2631.1	4956.2	6560.3	5708.9	5434.0
57.5°	408.3	412.7	458.4	572.9	825.3	1273.5	2282.3	4886.5	7318.2	6664.8	6318.8
60°	330.7	332.1	345.9	396.7	573.7	938.4	1860.9	4647.2	8140.6	7896.9	7461.1
62.5°	300.2	300.2	303.9	317.6	388.0	619.3	1351.1	4151.1	9022.5	9454.0	8870.1
65°	279.2	279.2	280.6	287.2	306.1	394.5	852.9	3343.2	9765.8	11277.9	10539.6
67.5°	260.3	261.1	260.3	262.5	273.4	291.5	494.6	2309.1	10166.2	13167.8	12370.7
70°	240.8	242.2	238.6	238.6	247.3	248.0	309.7	1266.2	9834.0	14751.7	14542.1
72.5°	217.6	219.8	213.9	212.5	219.0	216.1	232.8	607.7	8443.0	15224.5	15775.7
75°	197.2	200.2	187.1	183.5	183.5	181.3	189.3	311.8	5479.8	12419.3	13283.8
77.5°	179.2	184.9	163.9	152.3	149.4	142.9	154.5	190.8	2396.9	5830.7	5709.7
80°	147.9	155.9	134.9	121.2	116.0	108.8	121.9	133.5	712.9	1354.0	1296.7
82.5°	110.2	113.9	95.7	86.3	82.0	76.9	91.3	92.9	232.1	479.4	541.7
85°	70.3	71.8	58.7	50.7	48.6	46.4	58.0	50.7	88.5	352.5	512.0
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)