

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: P966829

Luminaire Tested: **NAV-SB4C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966829
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-SB4C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

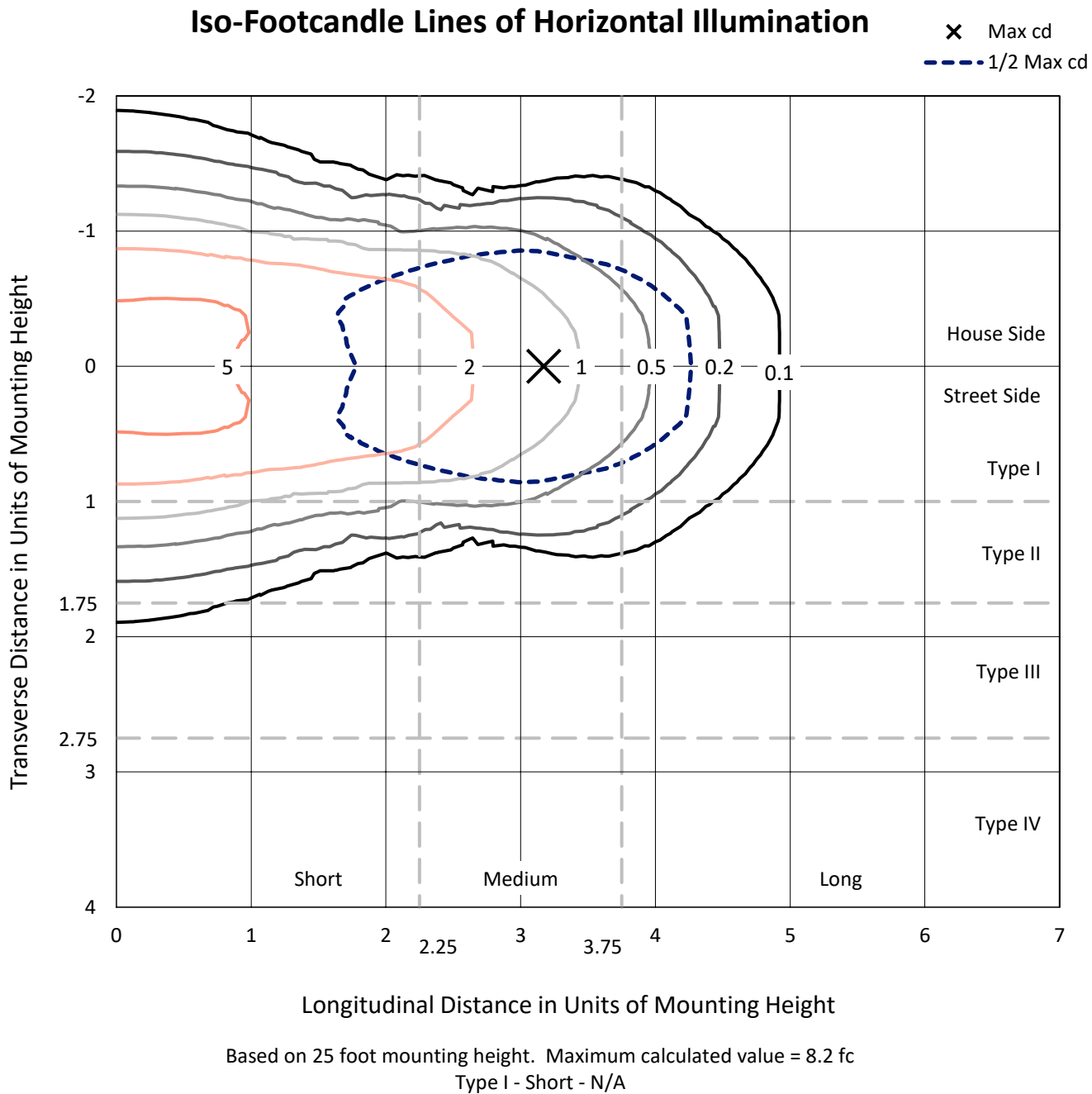
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27347 lumens
Efficiency: N/A
Efficacy: 136.3 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): 200.7
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

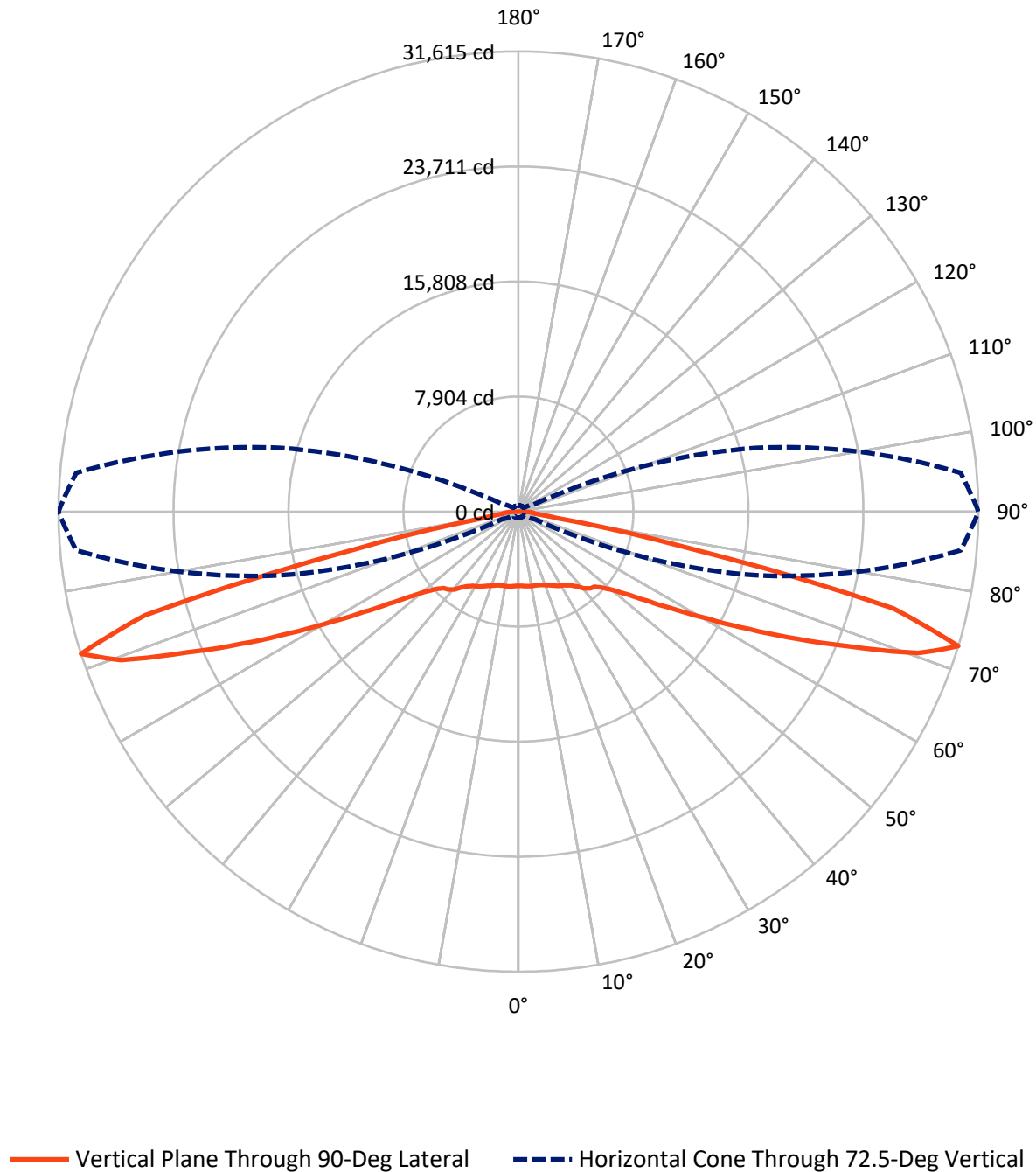


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13673.5	0.0	13673.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13673.5	0.0	13673.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27347.0	0.0	27347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.5	1.8
10°-20°	1515.0	5.5
20°-30°	2526.1	9.2
30°-40°	3474.2	12.7
40°-50°	4242.9	15.5
50°-60°	4907.4	17.9
60°-70°	5851.3	21.4
70°-80°	4083.8	14.9
80°-90°	250.8	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°	27347.0	100.0
0°-180°	27347.0	100.0

Coefficient of Utilization



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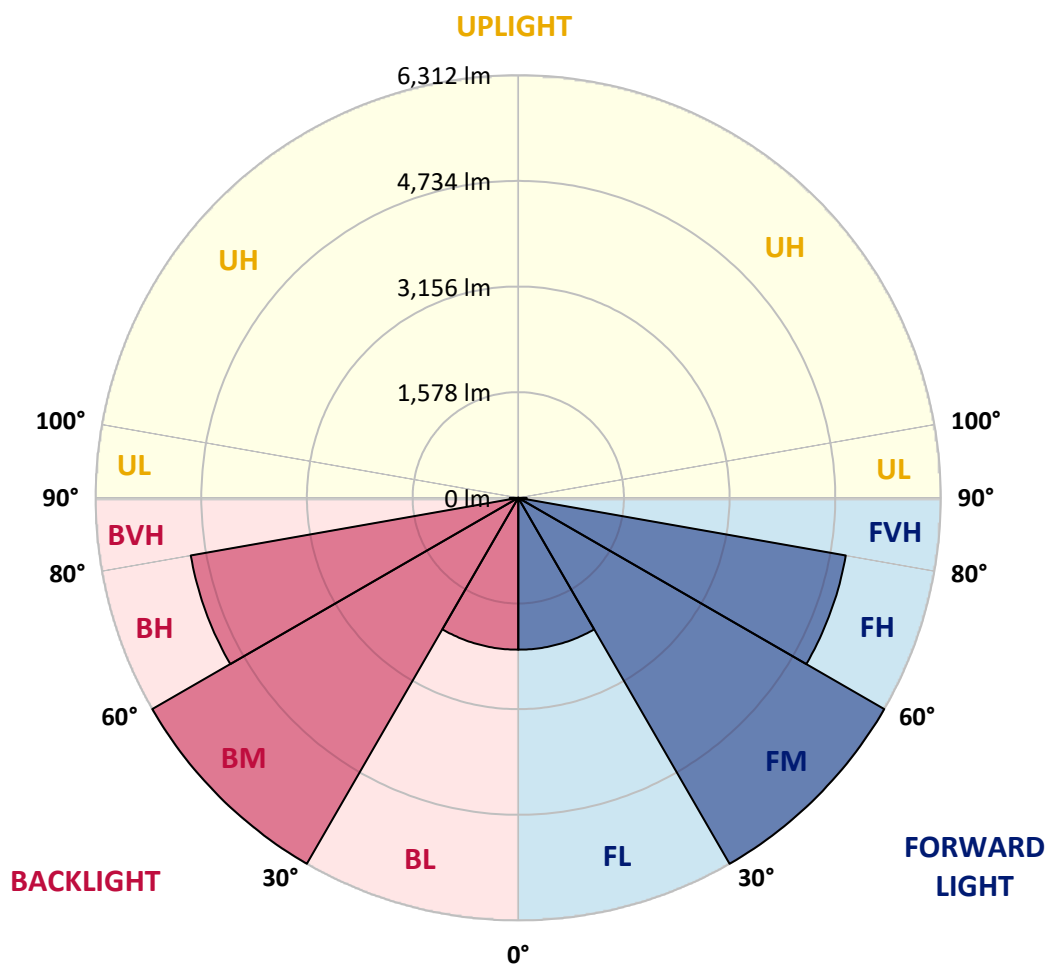
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2268.3	8.3			
FM	(30°-60°)	6312.3	23.1			
FH	(60°-80°)	4967.5	18.2			G2/5000
FVH	(80°-90°)	125.4	0.5			G2/225
BL	(0°-30°)	2268.3	8.3	B3/2500		
BM	(30°-60°)	6312.3	23.1	B4/8500		
BH	(60°-80°)	4967.5	18.2	B4/5000		G4/5000
BVH	(80°-90°)	125.4	0.5			G2/225
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°	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0	5110.0
2.5°	5114.4	5120.3	5120.3	5115.9	5126.0	5117.3	5117.3	5113.0	5117.3	5113.0	5113.0
5°	5140.6	5147.9	5150.7	5149.3	5162.4	5155.1	5155.1	5149.3	5150.7	5146.4	5146.4
7.5°	5190.0	5200.2	5206.0	5213.3	5232.1	5223.4	5217.7	5200.2	5193.0	5181.3	5181.3
10°	5206.0	5217.7	5236.5	5274.3	5317.9	5319.3	5301.9	5258.4	5224.9	5198.7	5194.4
12.5°	5156.6	5172.6	5211.8	5288.8	5386.2	5425.4	5397.9	5325.2	5259.8	5213.3	5206.0
15°	5094.0	5111.6	5171.1	5287.4	5431.3	5522.8	5519.9	5424.0	5319.3	5246.7	5235.1
17.5°	4996.7	5014.2	5099.9	5262.7	5466.1	5617.3	5658.0	5559.2	5412.4	5315.0	5299.0
20°	4820.9	4836.9	4956.0	5184.2	5477.8	5717.6	5823.6	5736.5	5553.3	5421.1	5396.4
22.5°	4592.7	4617.4	4756.9	5049.0	5450.1	5822.2	6012.6	5953.0	5717.6	5534.5	5501.1
25°	4348.5	4374.7	4537.5	4883.3	5379.0	5897.8	6236.4	6198.7	5903.6	5675.4	5628.9
27.5°	4137.7	4165.4	4342.7	4719.1	5268.5	5926.9	6457.4	6476.3	6128.9	5830.9	5781.5
30°	3972.1	3998.2	4187.2	4586.9	5126.0	5897.8	6650.6	6781.5	6358.5	5966.1	5894.9
32.5°	3790.4	3823.9	4022.9	4425.5	4957.5	5828.0	6819.2	7111.3	6624.5	6111.5	6021.4
35°	3560.7	3591.3	3800.6	4204.7	4736.5	5716.1	6960.3	7477.6	7005.3	6332.3	6232.1
37.5°	3281.7	3310.7	3518.6	3928.5	4517.1	5559.2	7067.8	7890.3	7458.7	6650.6	6517.0
40°	3001.2	3028.9	3223.6	3620.4	4254.1	5358.6	7105.6	8294.4	7979.0	7088.1	6945.7
42.5°	2744.0	2768.7	2947.5	3316.6	3959.0	5102.8	7056.1	8646.2	8445.6	7393.3	7210.2
45°	2507.0	2528.9	2687.3	3031.7	3652.4	4791.8	6907.9	9024.0	9000.7	7611.3	7364.2
47.5°	2236.8	2258.6	2422.8	2755.6	3345.7	4427.0	6656.5	9396.1	9772.6	8105.5	7820.6
50°	1906.8	1925.8	2094.3	2437.3	3027.3	4038.9	6307.6	9688.2	10746.3	8853.9	8496.4
52.5°	1515.9	1536.3	1700.5	2043.4	2649.5	3621.8	5848.3	9878.6	11871.1	9946.9	9506.6
55°	1127.8	1142.4	1284.7	1593.0	2181.5	3146.5	5272.8	9932.4	13147.3	11440.9	10890.1
57.5°	818.3	827.0	918.5	1148.2	1653.9	2552.1	4573.8	9792.8	14666.0	13356.6	12663.3
60°	662.8	665.6	693.3	795.0	1149.6	1880.7	3729.4	9313.3	16314.2	15825.8	14952.4
62.5°	601.7	601.7	609.0	636.6	777.6	1241.2	2707.6	8319.1	18081.5	18946.2	17776.3
65°	559.5	559.5	562.4	575.5	613.4	790.7	1709.2	6700.1	19571.1	22601.5	21122.0
67.5°	521.7	523.3	521.7	526.1	548.0	584.2	991.2	4627.6	20373.4	26388.9	24791.7
70°	482.6	485.4	478.2	478.2	495.6	497.0	620.6	2537.6	19707.8	29563.2	29143.1
72.5°	436.0	440.3	428.8	425.9	438.9	433.1	466.6	1217.9	16920.2	30510.8	31615.3
75°	395.3	401.1	374.9	367.7	367.7	363.4	379.4	624.9	10981.7	24889.0	26621.5
77.5°	359.0	370.6	328.5	305.2	299.4	286.3	309.5	382.2	4803.5	11685.2	11442.5
80°	296.5	312.5	270.3	242.7	232.6	218.0	244.2	267.4	1428.6	2713.5	2598.7
82.5°	220.9	228.2	191.9	172.9	164.2	154.1	183.2	186.0	465.0	960.7	1085.7
85°	140.9	143.9	117.8	101.8	97.4	93.0	116.2	101.8	177.3	706.3	1026.1
87.5°	49.4	56.7	45.1	40.7	43.6	36.3	53.8	30.5	49.4	498.5	617.7
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)