

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: P966147

Luminaire Tested: **NAV-SB4B-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966147
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-SB4B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

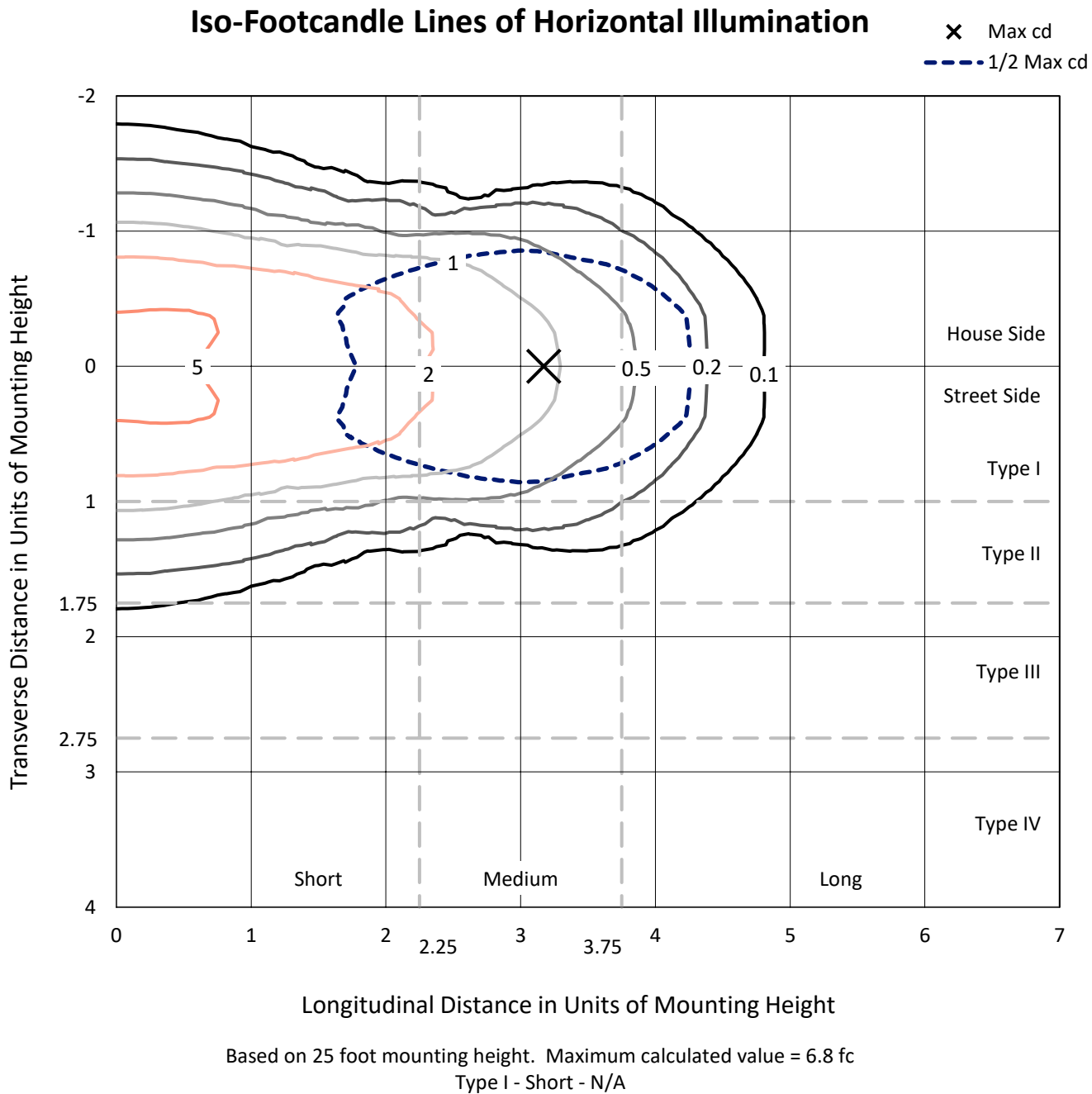
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22884.1 lumens
Efficiency: N/A
Efficacy: 155.7 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): 147
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

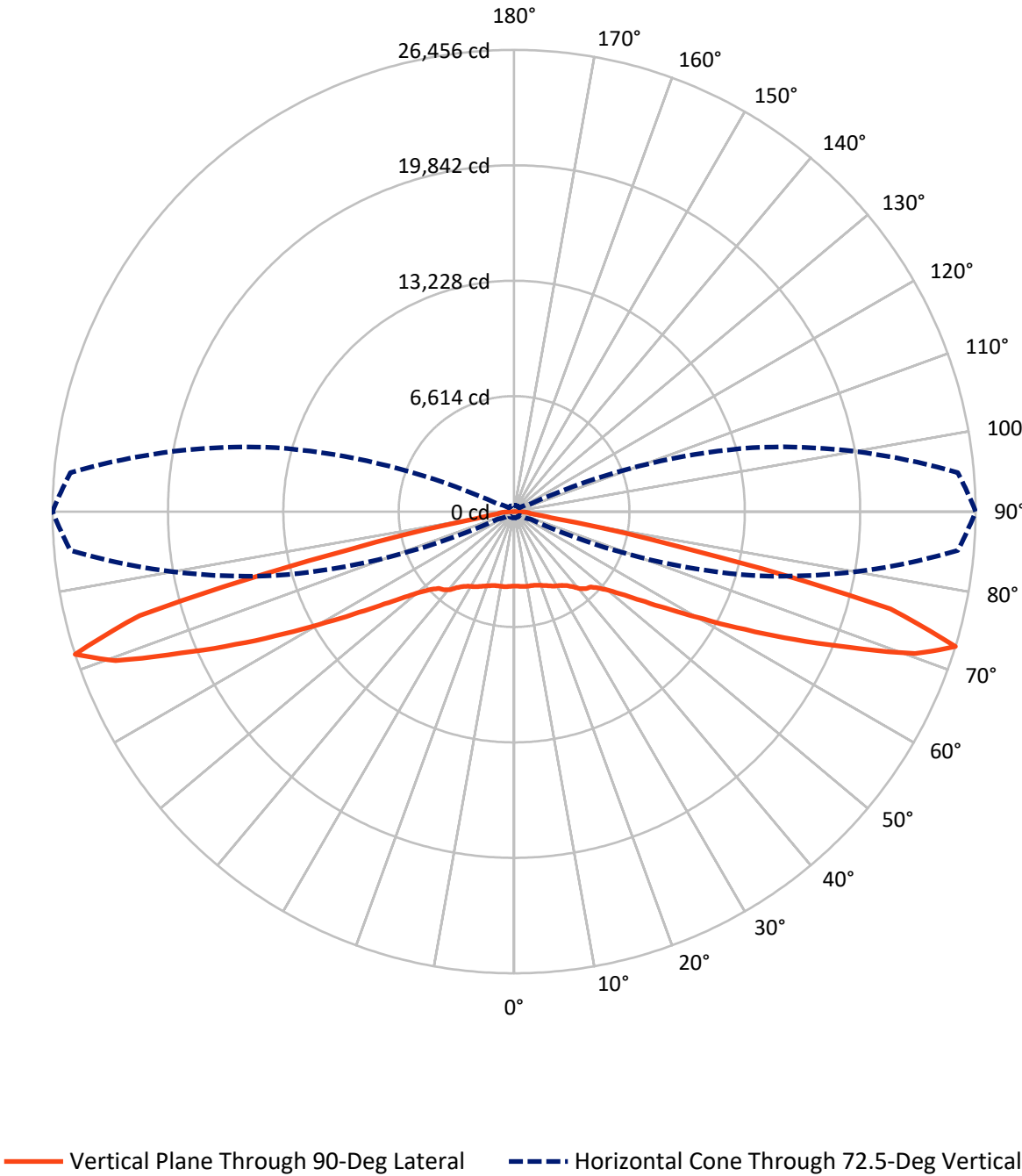


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11442.1	0.0	11442.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11442.1	0.0	11442.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	22884.1	0.0	22884.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.8
10°-20°	1267.8	5.5
20°-30°	2113.9	9.2
30°-40°	2907.2	12.7
40°-50°	3550.5	15.5
50°-60°	4106.5	17.9
60°-70°	4896.4	21.4
70°-80°	3417.3	14.9
80°-90°	209.9	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°	22884.1	100.0
0°-180°	22884.1	100.0

Coefficient of Utilization



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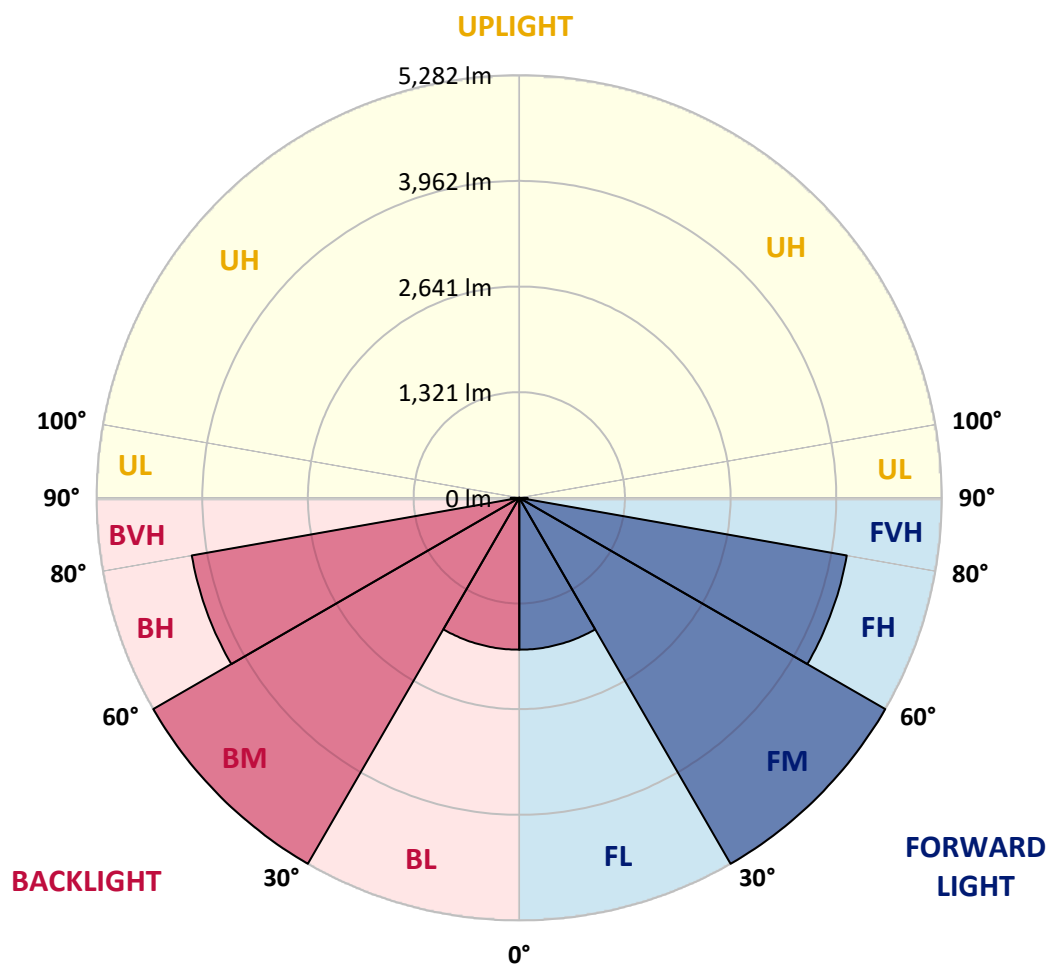
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1898.1	8.3			
FM	(30°-60°)	5282.1	23.1			
FH	(60°-80°)	4156.9	18.2			G2/5000
FVH	(80°-90°)	105.0	0.5			G2/225
BL	(0°-30°)	1898.1	8.3	B3/2500		
BM	(30°-60°)	5282.1	23.1	B4/8500		
BH	(60°-80°)	4156.9	18.2	B4/5000		G4/5000
BVH	(80°-90°)	105.0	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°	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1	4276.1
2.5°	4279.8	4284.7	4284.7	4281.0	4289.5	4282.2	4282.2	4278.6	4282.2	4278.6	4278.6
5°	4301.7	4307.8	4310.2	4309.0	4320.0	4313.8	4313.8	4309.0	4310.2	4306.5	4306.5
7.5°	4343.0	4351.5	4356.5	4362.5	4378.3	4371.0	4366.2	4351.5	4345.5	4335.8	4335.8
10°	4356.5	4366.2	4382.0	4413.5	4450.0	4451.3	4436.7	4400.2	4372.2	4350.3	4346.7
12.5°	4315.0	4328.5	4361.3	4425.7	4507.2	4540.0	4517.0	4456.2	4401.5	4362.5	4356.5
15°	4262.8	4277.3	4327.2	4424.5	4545.0	4621.5	4619.2	4538.8	4451.3	4390.5	4380.7
17.5°	4181.3	4195.8	4267.6	4403.8	4574.1	4700.5	4734.7	4652.0	4529.1	4447.6	4434.3
20°	4034.1	4047.5	4147.3	4338.2	4583.8	4784.5	4873.3	4800.3	4647.0	4536.4	4515.7
22.5°	3843.1	3863.8	3980.6	4225.0	4560.7	4872.0	5031.4	4981.5	4784.5	4631.3	4603.3
25°	3638.9	3660.8	3797.0	4086.4	4501.2	4935.3	5218.7	5187.1	4940.2	4749.2	4710.3
27.5°	3462.6	3485.6	3634.0	3949.0	4408.7	4959.7	5403.6	5419.4	5128.7	4879.4	4838.0
30°	3323.9	3345.8	3503.9	3838.3	4289.5	4935.3	5565.3	5674.8	5320.9	4992.5	4932.9
32.5°	3171.9	3199.8	3366.4	3703.3	4148.5	4877.0	5706.4	5950.8	5543.4	5114.1	5038.7
35°	2979.7	3005.2	3180.4	3518.4	3963.6	4783.3	5824.4	6257.3	5862.1	5298.9	5215.1
37.5°	2746.2	2770.5	2944.4	3287.4	3779.9	4652.0	5914.4	6602.7	6241.5	5565.3	5453.4
40°	2511.5	2534.5	2697.5	3029.6	3559.8	4484.1	5946.0	6940.8	6677.0	5931.4	5812.2
42.5°	2296.2	2316.8	2466.5	2775.4	3312.9	4270.0	5904.6	7235.2	7067.3	6186.8	6033.6
45°	2098.0	2116.2	2248.7	2537.0	3056.3	4009.8	5780.6	7551.4	7531.9	6369.2	6162.5
47.5°	1871.8	1890.0	2027.3	2305.9	2799.7	3704.6	5570.2	7862.7	8177.7	6782.7	6544.3
50°	1595.6	1611.5	1752.5	2039.5	2533.3	3379.8	5278.3	8107.1	8992.5	7409.1	7109.9
52.5°	1268.5	1285.6	1422.9	1710.0	2217.1	3030.7	4894.0	8266.5	9933.9	8323.6	7955.1
55°	943.7	955.9	1075.1	1332.9	1825.5	2633.0	4412.3	8311.5	11001.7	9573.9	9113.0
57.5°	684.7	692.0	768.6	960.8	1384.1	2135.7	3827.3	8194.8	12272.6	11176.8	10596.8
60°	554.6	557.0	580.2	665.2	962.0	1573.8	3120.7	7793.4	13651.8	13243.2	12512.2
62.5°	503.5	503.5	509.6	532.7	650.7	1038.6	2265.8	6961.5	15130.7	15854.3	14875.3
65°	468.2	468.2	470.7	481.6	513.2	661.6	1430.3	5606.6	16377.2	18913.1	17675.0
67.5°	436.6	437.9	436.6	440.2	458.5	488.9	829.4	3872.3	17048.6	22082.5	20745.9
70°	403.7	406.2	400.2	400.2	414.7	415.9	519.3	2123.5	16491.6	24738.7	24387.2
72.5°	364.9	368.5	358.7	356.4	367.3	362.4	390.4	1019.2	14158.9	25531.6	26455.9
75°	330.8	335.7	313.8	307.7	307.7	304.0	317.4	523.0	9189.5	20827.4	22277.0
77.5°	300.4	310.2	274.9	255.4	250.5	239.5	259.0	319.9	4019.5	9778.2	9575.1
80°	248.2	261.5	226.2	203.2	194.5	182.4	204.3	223.8	1195.6	2270.7	2174.5
82.5°	184.9	191.0	160.5	144.7	137.5	128.9	153.2	155.7	389.2	803.9	908.5
85°	118.0	120.4	98.5	85.2	81.5	77.8	97.3	85.2	148.4	591.1	858.6
87.5°	41.3	47.5	37.7	34.0	36.5	30.4	45.0	25.5	41.3	417.2	516.9
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)