

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: P967759

Luminaire Tested: **NAV-SB5A-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967759
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-SB5A-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24308.9 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

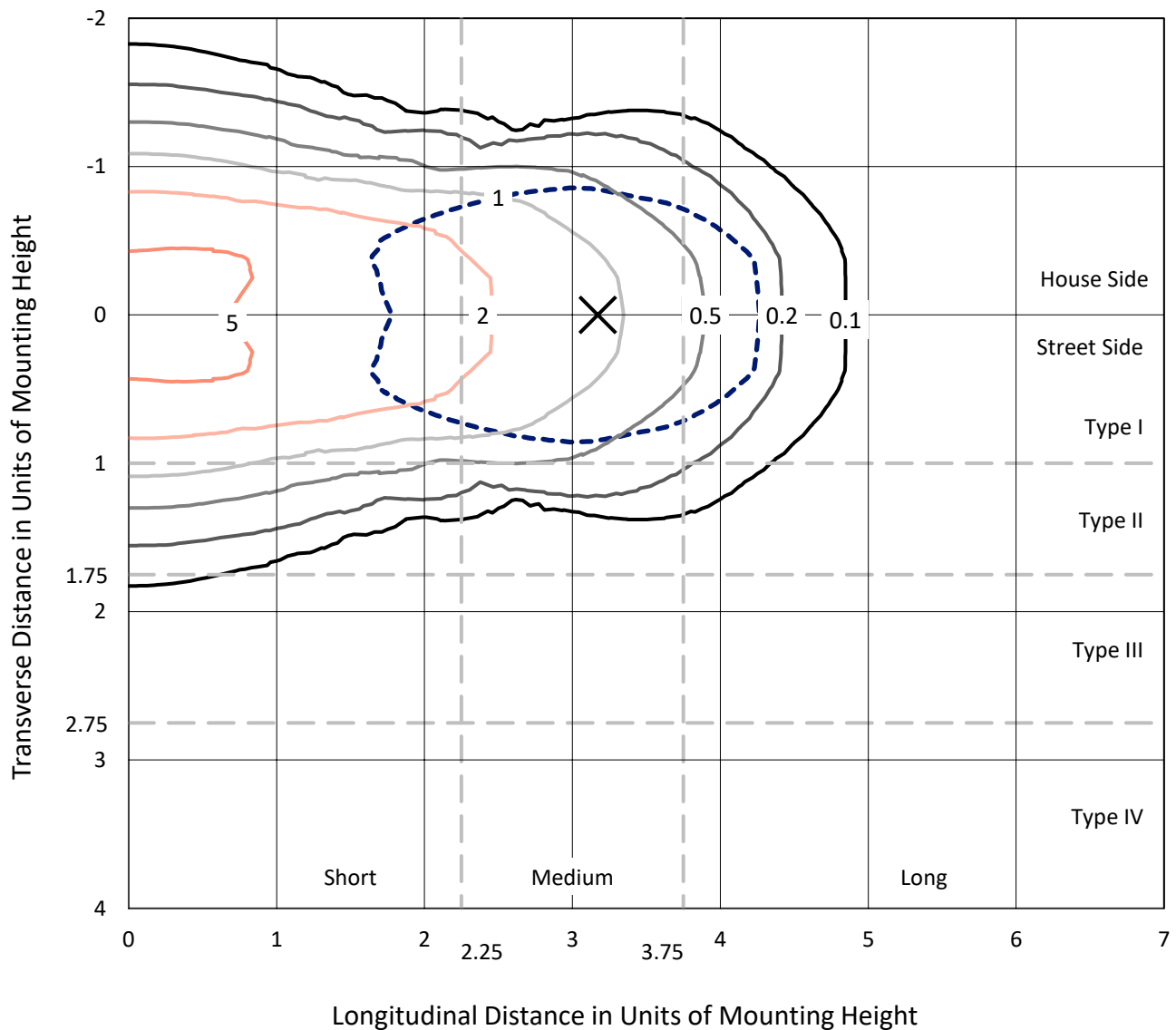
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

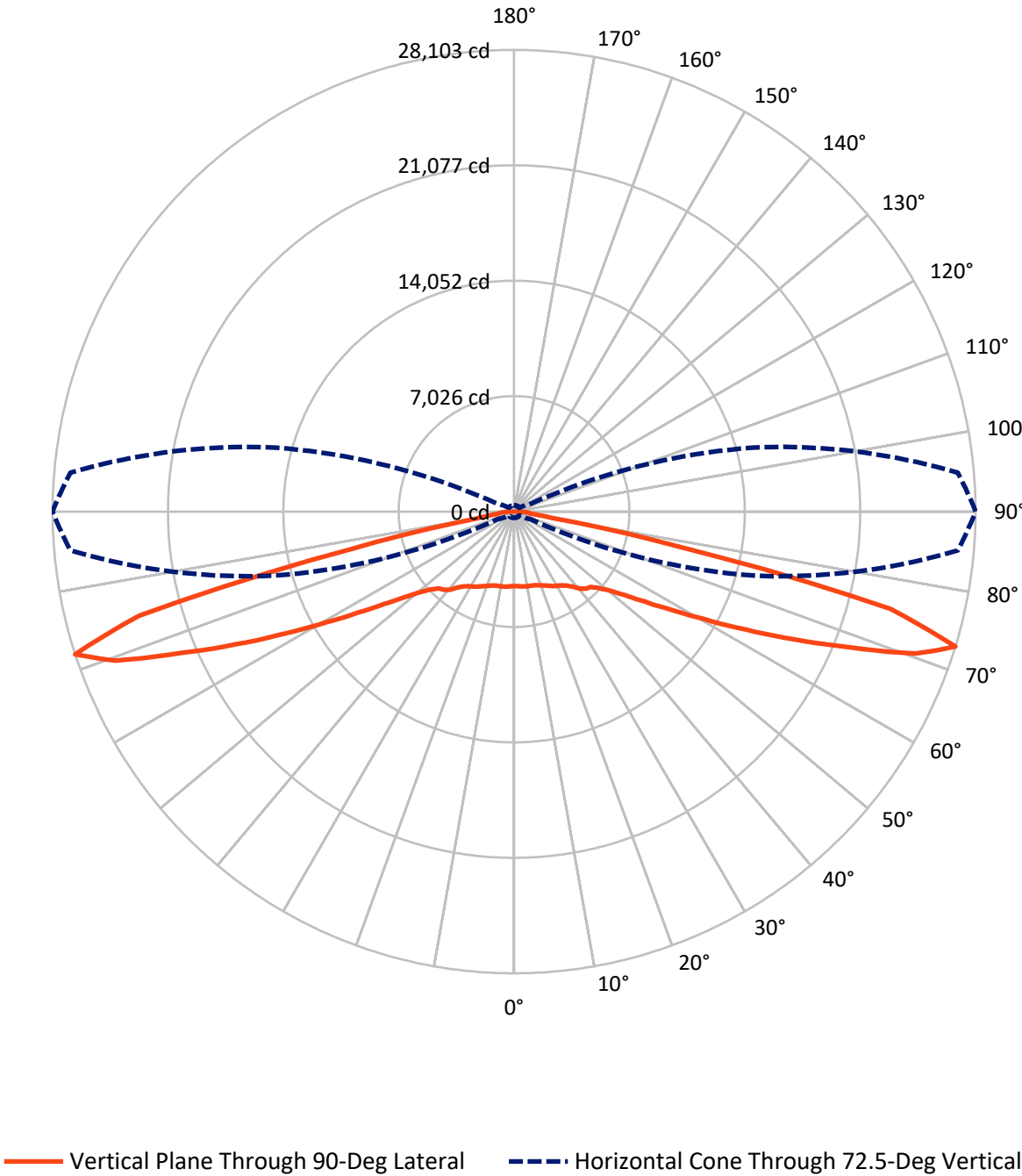
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	12154.5	0.0	12154.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12154.5	0.0	12154.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24308.9	0.0	24308.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	1.8
10°-20°	1346.7	5.5
20°-30°	2245.5	9.2
30°-40°	3088.2	12.7
40°-50°	3771.6	15.5
50°-60°	4362.2	17.9
60°-70°	5201.2	21.4
70°-80°	3630.1	14.9
80°-90°	223.0	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°	24308.9	100.0
0°-180°	24308.9	100.0

Coefficient of Utilization



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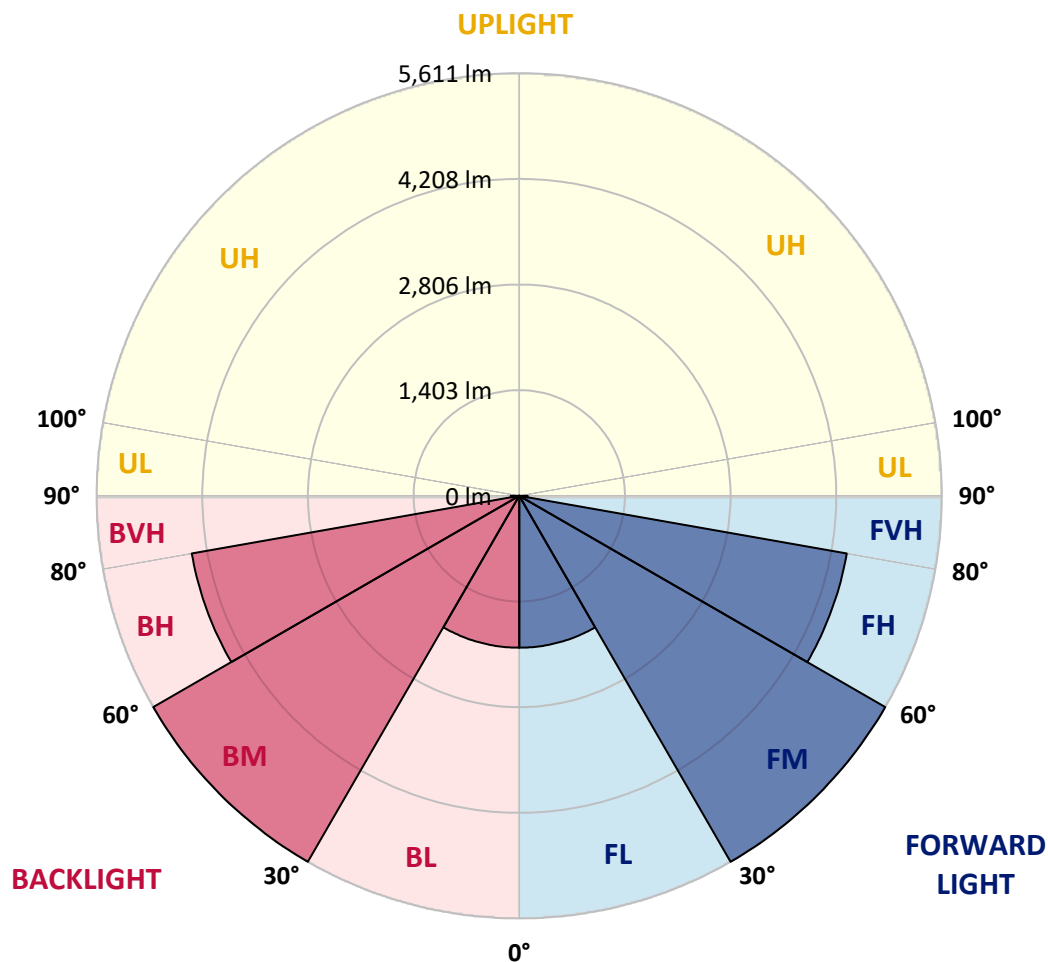
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2016.3	8.3			
FM	(30°-60°)	5611.0	23.1			
FH	(60°-80°)	4415.7	18.2			G2/5000
FVH	(80°-90°)	111.5	0.5			G2/225
BL	(0°-30°)	2016.3	8.3	B3/2500		
BM	(30°-60°)	5611.0	23.1	B4/8500		
BH	(60°-80°)	4415.7	18.2	B4/5000		G4/5000
BVH	(80°-90°)	111.5	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°	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4	4542.4
2.5°	4546.3	4551.4	4551.4	4547.5	4556.5	4548.8	4548.8	4545.0	4548.8	4545.0	4545.0
5°	4569.6	4576.0	4578.6	4577.2	4588.9	4582.5	4582.5	4577.2	4578.6	4574.7	4574.7
7.5°	4613.4	4622.4	4627.7	4634.1	4650.9	4643.1	4638.0	4622.4	4616.0	4605.6	4605.6
10°	4627.7	4638.0	4654.7	4688.3	4727.1	4728.4	4713.0	4674.1	4644.5	4621.2	4617.3
12.5°	4583.7	4597.9	4632.8	4701.3	4787.9	4822.7	4798.1	4733.6	4675.4	4634.1	4627.7
15°	4528.1	4543.6	4596.6	4700.0	4827.9	4909.2	4906.7	4821.4	4728.4	4663.9	4653.5
17.5°	4441.6	4457.1	4533.4	4678.0	4858.9	4993.3	5029.5	4941.6	4811.0	4724.5	4710.3
20°	4285.3	4299.5	4405.4	4608.3	4869.3	5082.4	5176.7	5099.2	4936.4	4818.8	4796.9
22.5°	4082.5	4104.4	4228.4	4488.1	4844.7	5175.4	5344.7	5291.7	5082.4	4919.6	4889.9
25°	3865.4	3888.6	4033.4	4340.9	4781.4	5242.6	5543.6	5510.0	5247.8	5044.9	5003.5
27.5°	3678.1	3702.6	3860.3	4194.8	4683.2	5268.4	5740.0	5756.8	5448.0	5183.1	5139.2
30°	3530.8	3554.1	3722.0	4077.2	4556.5	5242.6	5911.8	6028.1	5652.2	5303.3	5240.0
32.5°	3369.3	3399.0	3576.0	3933.8	4406.7	5180.6	6061.6	6321.4	5888.5	5432.5	5352.4
35°	3165.2	3192.4	3378.4	3737.6	4210.4	5081.1	6187.0	6646.9	6227.1	5628.9	5539.7
37.5°	2917.1	2943.0	3127.7	3492.1	4015.2	4941.6	6282.6	7013.8	6630.1	5911.8	5793.0
40°	2667.8	2692.4	2865.5	3218.2	3781.4	4763.3	6316.2	7372.9	7092.6	6300.7	6174.1
42.5°	2439.1	2461.1	2620.0	2948.1	3519.1	4535.9	6272.3	7685.7	7507.3	6572.0	6409.2
45°	2228.6	2247.9	2388.8	2694.9	3246.6	4259.5	6140.5	8021.5	8000.8	6765.7	6546.2
47.5°	1988.3	2007.7	2153.6	2449.4	2974.0	3935.2	5917.0	8352.2	8686.9	7205.0	6951.8
50°	1695.0	1711.7	1861.6	2166.5	2691.0	3590.3	5607.0	8611.9	9552.4	7870.4	7552.5
52.5°	1347.5	1365.5	1511.6	1816.4	2355.1	3219.4	5198.7	8781.2	10552.4	8841.9	8450.4
55°	1002.6	1015.5	1142.1	1415.9	1939.2	2797.0	4687.1	8828.9	11686.6	10169.9	9680.3
57.5°	727.3	735.1	816.5	1020.6	1470.2	2268.6	4065.7	8704.9	13036.7	11872.7	11256.4
60°	589.1	591.7	616.2	706.6	1021.9	1671.8	3315.1	8278.6	14501.7	14067.7	13291.2
62.5°	534.8	534.8	541.3	565.9	691.2	1103.3	2406.8	7395.0	16072.7	16841.4	15801.4
65°	497.4	497.4	500.0	511.6	545.2	702.8	1519.3	5955.8	17396.9	20090.6	18775.4
67.5°	463.8	465.0	463.8	467.7	487.1	519.4	881.1	4113.4	18110.1	23457.3	22037.5
70°	429.0	431.5	425.1	425.1	440.5	441.9	551.7	2255.7	17518.4	26278.8	25905.4
72.5°	387.6	391.4	381.1	378.5	390.1	385.0	414.7	1082.6	15040.4	27121.2	28103.0
75°	351.4	356.6	333.3	326.9	326.9	323.0	337.2	555.6	9761.7	22124.0	23664.0
77.5°	319.1	329.4	292.0	271.3	266.1	254.5	275.2	339.8	4269.7	10387.0	10171.3
80°	263.5	277.8	240.3	215.8	206.7	193.8	217.0	237.7	1270.0	2412.0	2309.9
82.5°	196.4	202.8	170.6	153.8	146.0	136.9	162.8	165.3	413.4	853.9	965.0
85°	125.4	127.9	104.7	90.4	86.5	82.7	103.3	90.4	157.6	627.9	912.0
87.5°	44.0	50.4	40.1	36.2	38.7	32.3	47.8	27.2	44.0	443.1	549.1
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)