

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: P884945

Luminaire Tested: **NAV-SB6A-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26514 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

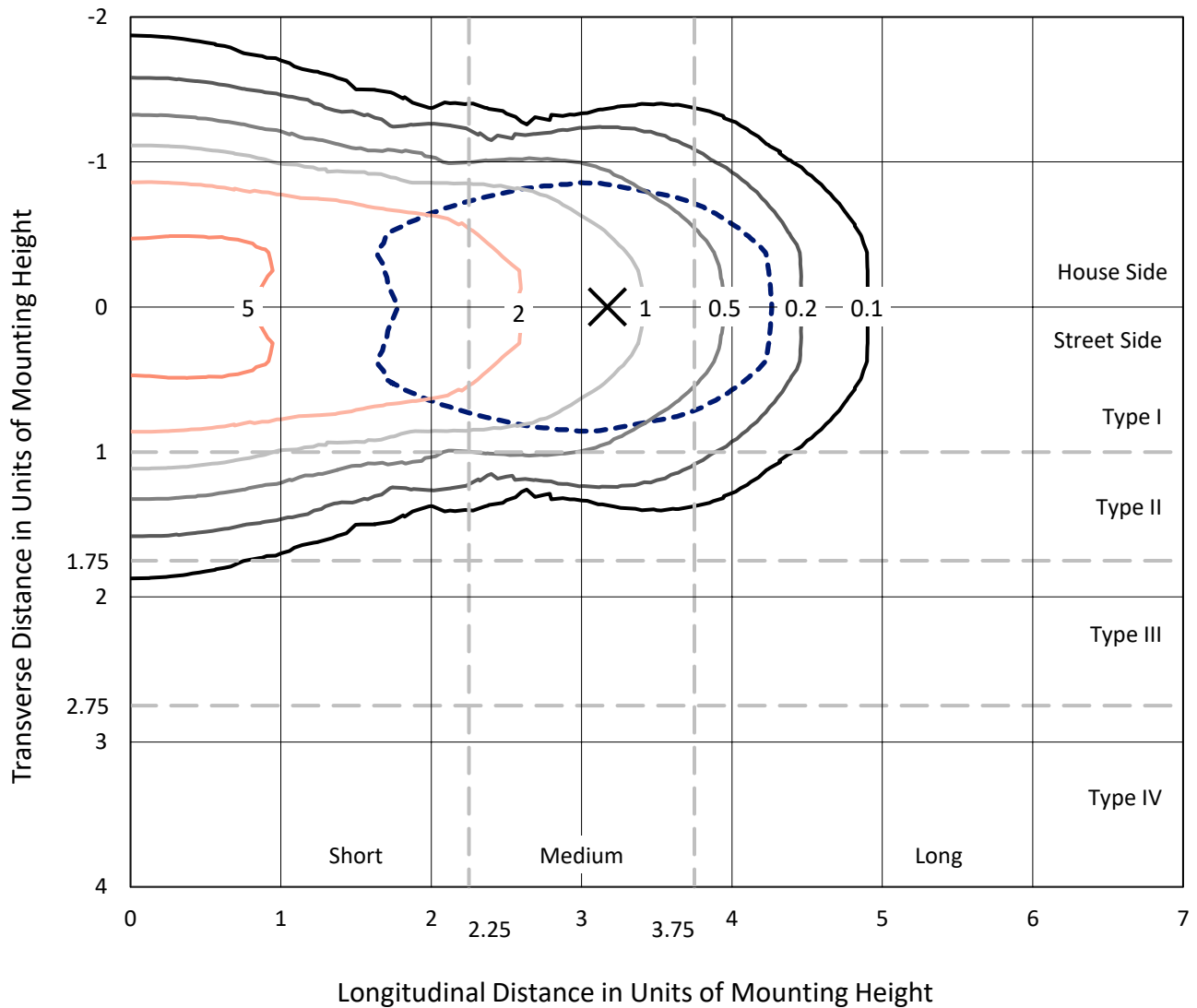
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

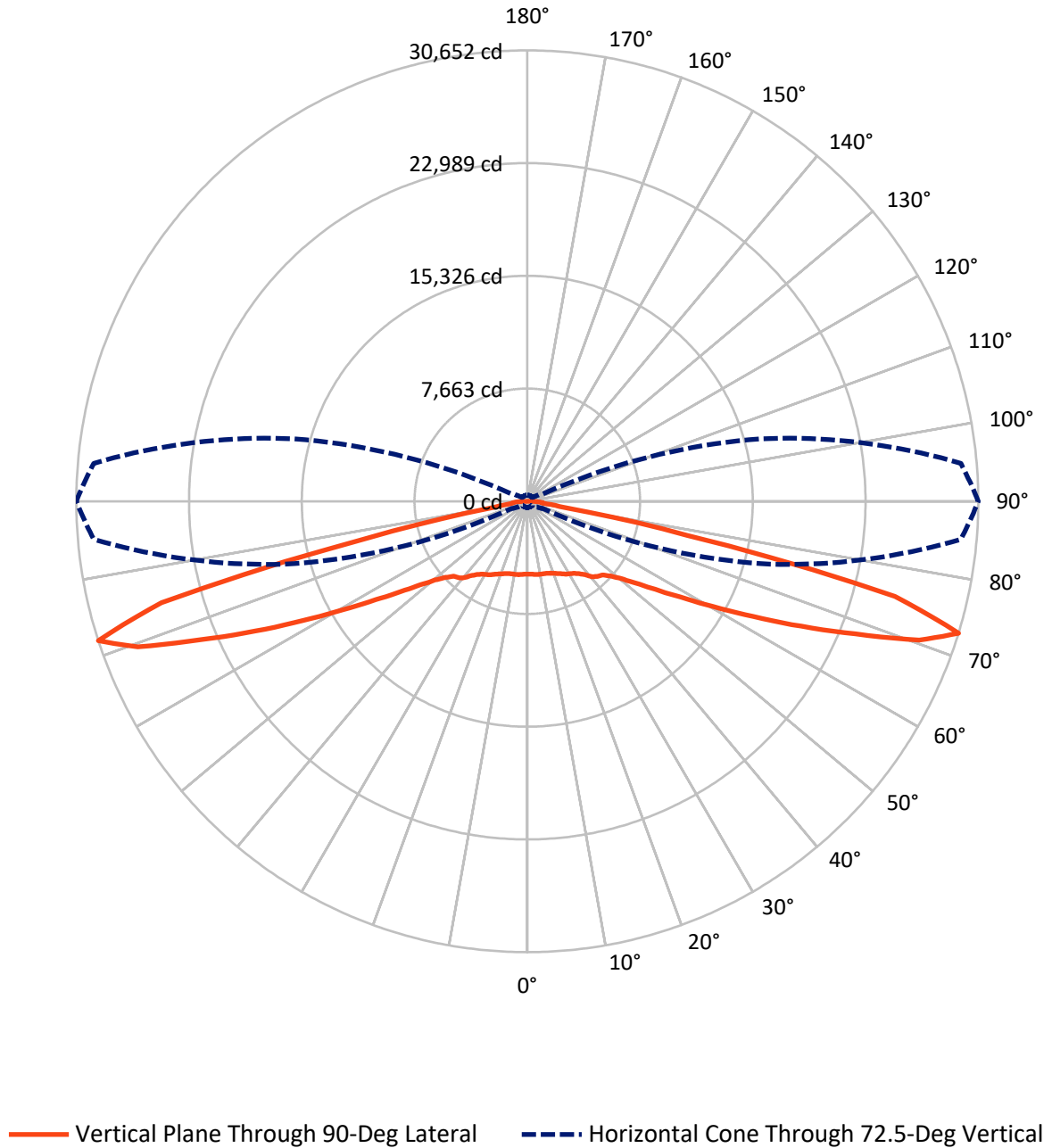
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13257.0	0.0	13257.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13257.0	0.0	13257.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26514.0	0.0	26514.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.4	1.8
10°-20°	1468.8	5.5
20°-30°	2449.2	9.2
30°-40°	3368.4	12.7
40°-50°	4113.7	15.5
50°-60°	4757.9	17.9
60°-70°	5673.0	21.4
70°-80°	3959.4	14.9
80°-90°	243.2	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°	26514.0	100.0
0°-180°	26514.0	100.0



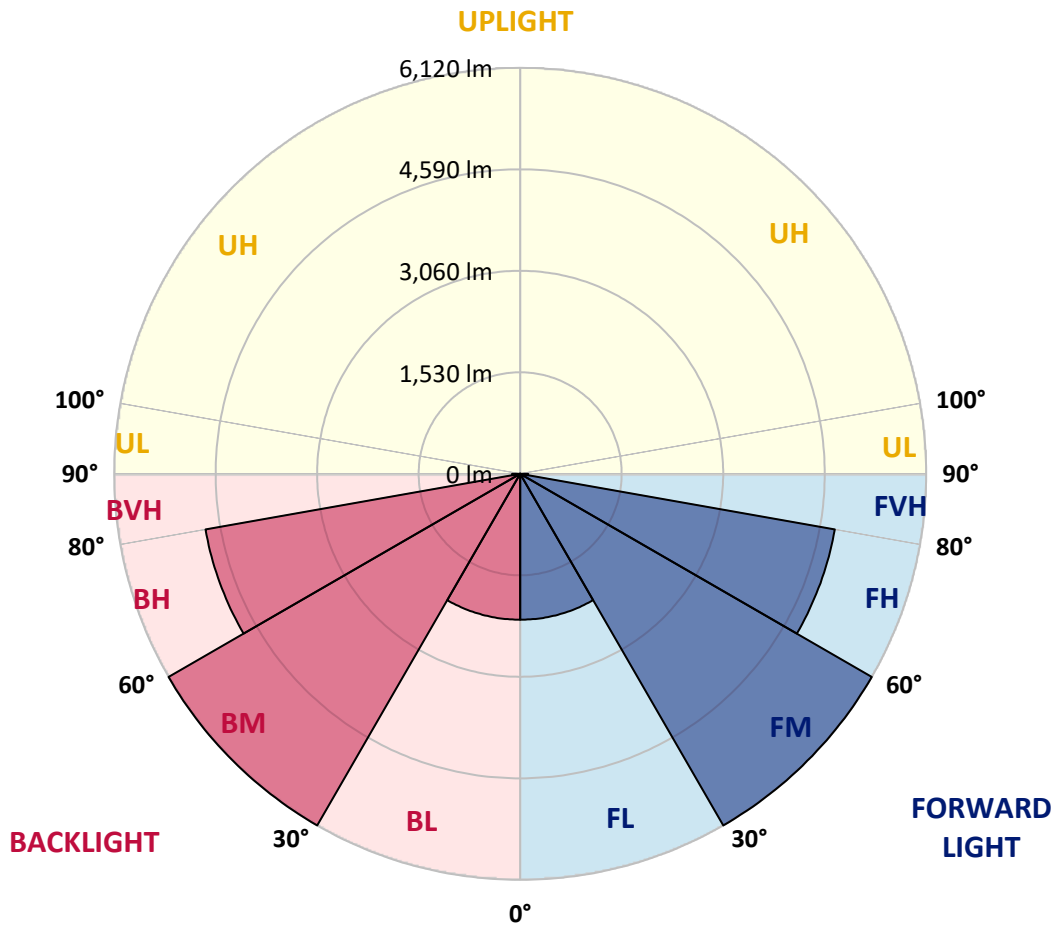
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.2	8.3			
FM (30°-60°)	6120.0	23.1			
FH (60°-80°)	4816.2	18.2			G2/5000
FVH (80°-90°)	121.6	0.5			G2/225
BL (0°-30°)	2199.2	8.3	B3/2500		
BM (30°-60°)	6120.0	23.1	B4/8500		
BH (60°-80°)	4816.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	121.6	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°	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4	4954.4
2.5°	4958.6	4964.3	4964.3	4960.1	4969.9	4961.5	4961.5	4957.2	4961.5	4957.2	4957.2
5°	4984.0	4991.1	4993.9	4992.5	5005.1	4998.1	4998.1	4992.5	4993.9	4989.6	4989.6
7.5°	5031.9	5041.8	5047.4	5054.5	5072.8	5064.3	5058.7	5041.8	5034.7	5023.5	5023.5
10°	5047.4	5058.7	5077.0	5113.6	5155.9	5157.3	5140.4	5098.1	5065.7	5040.4	5036.1
12.5°	4999.5	5015.0	5053.1	5127.7	5222.2	5260.2	5233.4	5163.0	5099.6	5054.5	5047.4
15°	4938.9	4955.8	5013.6	5126.3	5265.8	5354.6	5351.8	5258.8	5157.3	5086.9	5075.6
17.5°	4844.5	4861.4	4944.6	5102.4	5299.7	5446.2	5485.7	5389.8	5247.5	5153.1	5137.6
20°	4674.0	4689.5	4805.1	5026.3	5310.9	5543.4	5646.3	5561.7	5384.2	5256.0	5232.0
22.5°	4452.8	4476.7	4612.0	4895.2	5284.2	5644.9	5829.5	5771.7	5543.4	5365.9	5333.5
25°	4216.0	4241.4	4399.2	4734.6	5215.1	5718.2	6046.5	6009.8	5723.8	5502.6	5457.5
27.5°	4011.7	4038.5	4210.4	4575.4	5108.0	5746.3	6260.7	6279.0	5942.2	5653.3	5605.4
30°	3851.1	3876.5	4059.6	4447.1	4969.9	5718.2	6448.1	6574.9	6164.8	5784.4	5715.3
32.5°	3675.0	3707.4	3900.4	4290.7	4806.5	5650.5	6611.5	6894.8	6422.7	5925.3	5837.9
35°	3452.3	3481.9	3684.8	4076.5	4592.3	5542.0	6748.2	7249.9	6791.9	6139.5	6042.3
37.5°	3181.8	3209.9	3411.4	3808.8	4379.5	5389.8	6852.5	7650.0	7231.5	6448.1	6318.4
40°	2909.8	2936.6	3125.4	3510.1	4124.5	5195.4	6889.1	8041.8	7736.0	6872.2	6734.1
42.5°	2660.4	2684.3	2857.7	3215.6	3838.4	4947.4	6841.2	8382.8	8188.3	7168.1	6990.6
45°	2430.7	2451.8	2605.4	2939.4	3541.1	4645.8	6697.5	8749.1	8726.6	7379.5	7139.9
47.5°	2168.6	2189.8	2349.0	2671.7	3243.8	4292.1	6453.7	9109.9	9474.8	7858.6	7582.4
50°	1848.7	1867.1	2030.5	2363.1	2935.2	3915.9	6115.5	9393.1	10418.9	8584.3	8237.6
52.5°	1469.7	1489.4	1648.7	1981.2	2568.8	3511.5	5670.2	9577.7	11509.6	9643.9	9217.0
55°	1093.5	1107.6	1245.7	1544.4	2115.1	3050.7	5112.2	9629.8	12746.8	11092.5	10558.4
57.5°	793.3	801.8	890.6	1113.2	1603.6	2474.4	4434.5	9494.6	14219.3	12949.7	12277.6
60°	642.6	645.4	672.1	770.8	1114.6	1823.4	3615.8	9029.6	15817.2	15343.8	14496.9
62.5°	583.4	583.4	590.4	617.2	753.9	1203.4	2625.2	8065.7	17530.7	18369.1	17234.8
65°	542.5	542.5	545.3	558.0	594.6	766.6	1657.1	6496.0	18975.0	21913.0	20478.6
67.5°	505.9	507.3	505.9	510.1	531.2	566.5	961.0	4486.6	19752.9	25585.2	24036.5
70°	467.8	470.6	463.6	463.6	480.5	481.9	601.7	2460.3	19107.5	28662.6	28255.4
72.5°	422.7	427.0	415.7	412.9	425.6	419.9	452.3	1180.8	16404.8	29581.4	30652.3
75°	383.3	388.9	363.5	356.5	356.5	352.3	367.8	605.9	10647.2	24131.0	25810.6
77.5°	348.0	359.3	318.5	295.9	290.3	277.6	300.1	370.6	4657.1	11329.2	11093.9
80°	287.5	303.0	262.1	235.3	225.5	211.4	236.7	259.3	1385.2	2630.8	2519.5
82.5°	214.2	221.2	186.0	167.7	159.2	149.4	177.5	180.4	450.9	931.4	1052.6
85°	136.7	139.5	114.1	98.6	94.4	90.2	112.7	98.6	171.9	684.8	994.8
87.5°	47.9	55.0	43.7	39.5	42.3	35.2	52.1	29.6	47.9	483.3	598.9
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)