

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: P884955

Luminaire Tested: **NAV-SB6A-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884955
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26935 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

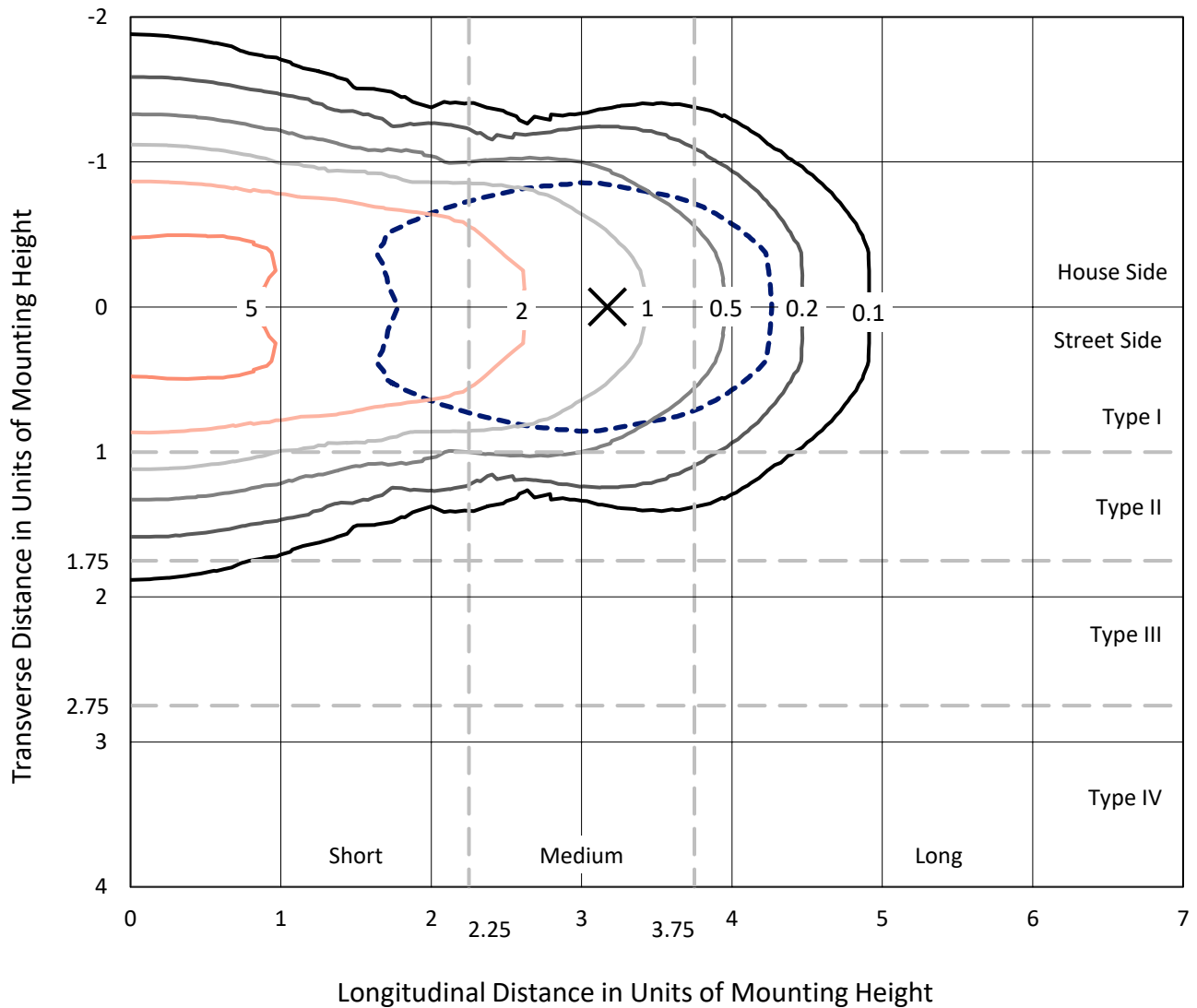
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

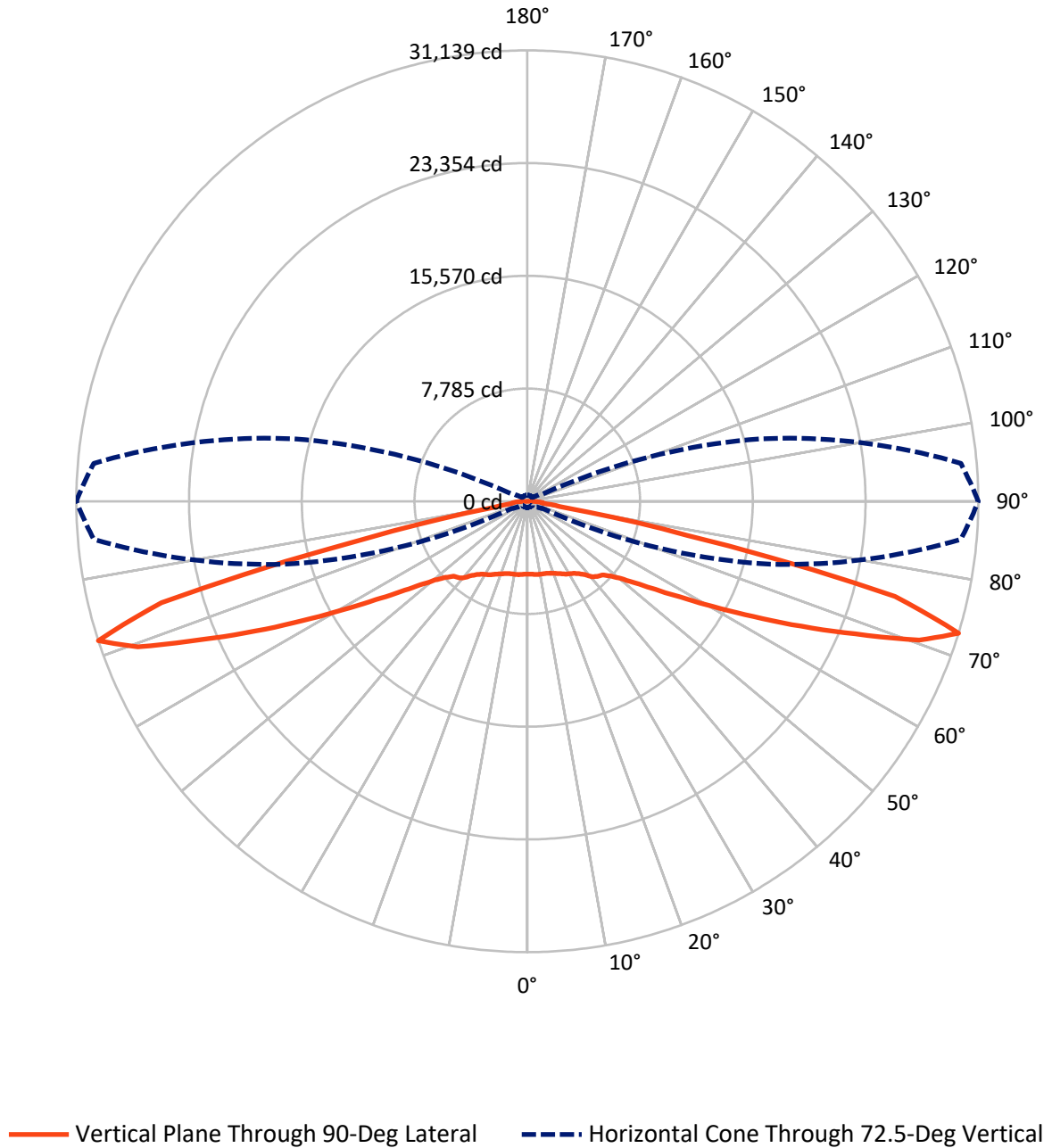
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	13467.5	0.0	13467.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13467.5	0.0	13467.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26935.0	0.0	26935.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.0	1.8
10°-20°	1492.2	5.5
20°-30°	2488.1	9.2
30°-40°	3421.8	12.7
40°-50°	4179.0	15.5
50°-60°	4833.5	17.9
60°-70°	5763.1	21.4
70°-80°	4022.3	14.9
80°-90°	247.1	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°	26935.0	100.0
0°-180°	26935.0	100.0



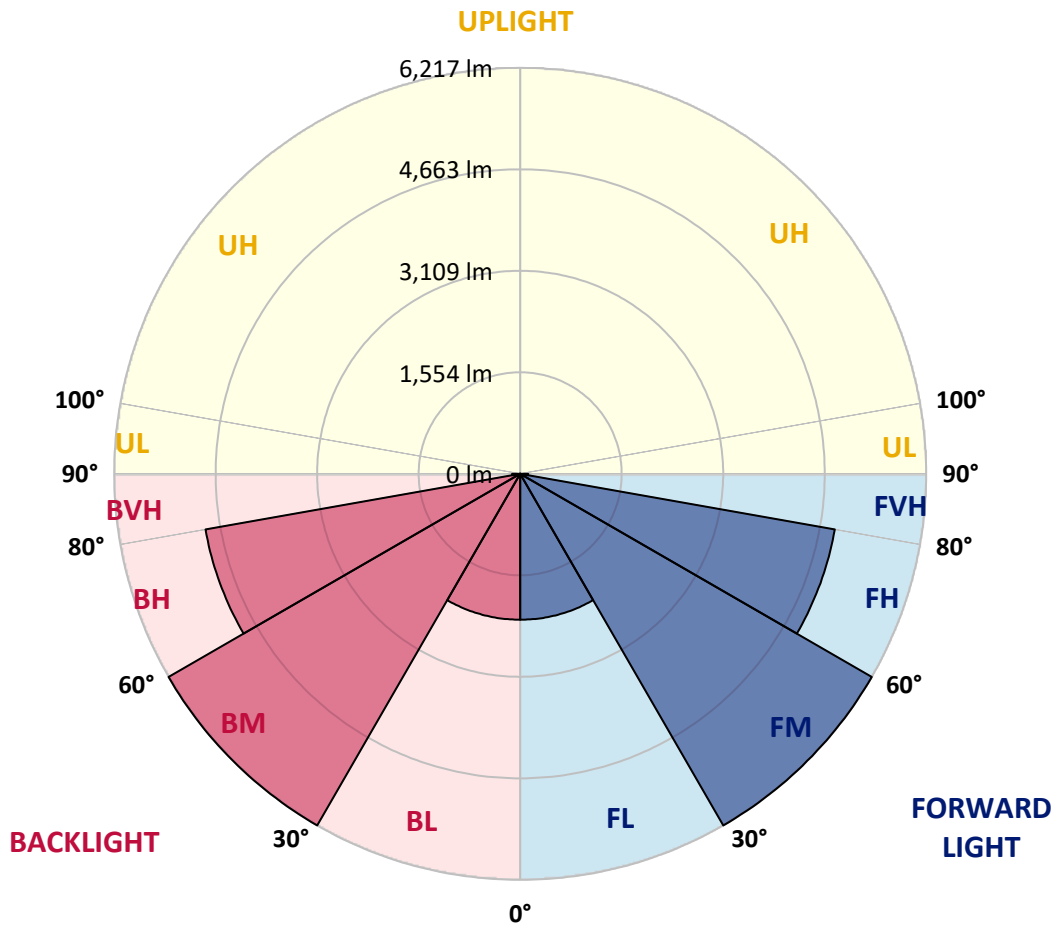
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.1	8.3			
FM (30°-60°)	6217.2	23.1			
FH (60°-80°)	4892.7	18.2			G2/5000
FVH (80°-90°)	123.5	0.5			G2/225
BL (0°-30°)	2234.1	8.3	B3/2500		
BM (30°-60°)	6217.2	23.1	B4/8500		
BH (60°-80°)	4892.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	123.5	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°	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1	5033.1
2.5°	5037.4	5043.1	5043.1	5038.8	5048.8	5040.2	5040.2	5036.0	5040.2	5036.0	5036.0
5°	5063.2	5070.3	5073.2	5071.7	5084.6	5077.5	5077.5	5071.7	5073.2	5068.9	5068.9
7.5°	5111.8	5121.8	5127.6	5134.7	5153.3	5144.7	5139.0	5121.8	5114.7	5103.2	5103.2
10°	5127.6	5139.0	5157.6	5194.8	5237.8	5239.2	5222.0	5179.1	5146.2	5120.4	5116.1
12.5°	5078.9	5094.6	5133.3	5209.2	5305.1	5343.7	5316.5	5244.9	5180.5	5134.7	5127.6
15°	5017.3	5034.5	5093.2	5207.7	5349.4	5439.6	5436.8	5342.3	5239.2	5167.6	5156.2
17.5°	4921.4	4938.6	5023.1	5183.4	5383.8	5532.7	5572.8	5475.4	5330.8	5234.9	5219.2
20°	4748.2	4764.0	4881.4	5106.1	5395.3	5631.4	5735.9	5650.1	5469.7	5339.4	5315.1
22.5°	4523.5	4547.8	4685.2	4973.0	5368.1	5734.5	5922.0	5863.3	5631.4	5451.1	5418.2
25°	4283.0	4308.8	4469.1	4809.8	5297.9	5809.0	6142.5	6105.3	5814.7	5589.9	5544.1
27.5°	4075.4	4102.6	4277.3	4648.0	5189.1	5837.6	6360.1	6378.7	6036.6	5743.1	5694.4
30°	3912.2	3938.0	4124.1	4517.8	5048.8	5809.0	6550.5	6679.3	6262.7	5876.2	5806.1
32.5°	3733.3	3766.2	3962.3	4358.9	4882.8	5740.2	6716.5	7004.2	6524.7	6019.4	5930.6
35°	3507.1	3537.2	3743.3	4141.3	4665.2	5630.0	6855.4	7365.0	6899.7	6237.0	6138.2
37.5°	3232.3	3260.9	3465.6	3869.3	4449.0	5475.4	6961.3	7771.5	7346.4	6550.5	6418.8
40°	2956.0	2983.2	3175.0	3565.8	4189.9	5277.9	6998.5	8169.5	7858.8	6981.3	6841.1
42.5°	2702.6	2727.0	2903.0	3266.6	3899.4	5025.9	6949.8	8515.9	8318.3	7281.9	7101.6
45°	2469.3	2490.8	2646.8	2986.1	3597.3	4719.6	6803.8	8888.1	8865.2	7496.7	7253.3
47.5°	2203.1	2224.5	2386.3	2714.1	3295.3	4360.3	6556.2	9254.5	9625.3	7983.4	7702.8
50°	1878.1	1896.7	2062.8	2400.6	2981.8	3978.1	6212.6	9542.3	10584.4	8720.6	8368.4
52.5°	1493.0	1513.1	1674.8	2012.7	2609.6	3567.3	5760.3	9729.8	11692.3	9797.1	9363.3
55°	1110.8	1125.1	1265.4	1568.9	2148.7	3099.2	5193.4	9782.7	12949.2	11268.6	10726.1
57.5°	805.9	814.5	904.7	1130.9	1629.0	2513.7	4504.9	9645.3	14445.1	13155.3	12472.5
60°	652.8	655.6	682.8	783.0	1132.3	1852.3	3673.2	9172.9	16068.4	15587.4	14727.1
62.5°	592.6	592.6	599.8	627.0	765.8	1222.5	2666.9	8193.8	17809.1	18660.8	17508.5
65°	551.1	551.1	554.0	566.9	604.1	778.7	1683.4	6599.1	19276.3	22261.0	20803.7
67.5°	513.9	515.3	513.9	518.2	539.7	575.5	976.3	4557.8	20066.5	25991.4	24418.2
70°	475.3	478.1	471.0	471.0	488.1	489.6	611.2	2499.4	19410.9	29117.8	28704.1
72.5°	429.4	433.7	422.3	419.4	432.3	426.6	459.5	1199.6	16665.3	30051.1	31139.0
75°	389.4	395.1	369.3	362.2	362.2	357.9	373.6	615.5	10816.3	24514.1	26220.4
77.5°	353.6	365.0	323.5	300.6	294.9	282.0	304.9	376.5	4731.0	11509.1	11270.1
80°	292.0	307.8	266.3	239.1	229.0	214.7	240.5	263.4	1407.1	2672.6	2559.5
82.5°	217.6	224.7	189.0	170.3	161.8	151.7	180.4	183.2	458.1	946.2	1069.3
85°	138.9	141.7	116.0	100.2	95.9	91.6	114.5	100.2	174.6	695.7	1010.6
87.5°	48.7	55.8	44.4	40.1	42.9	35.8	53.0	30.1	48.7	491.0	608.4
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)