

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: P884935

Luminaire Tested: **NAV-SB6A-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884935
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24410 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

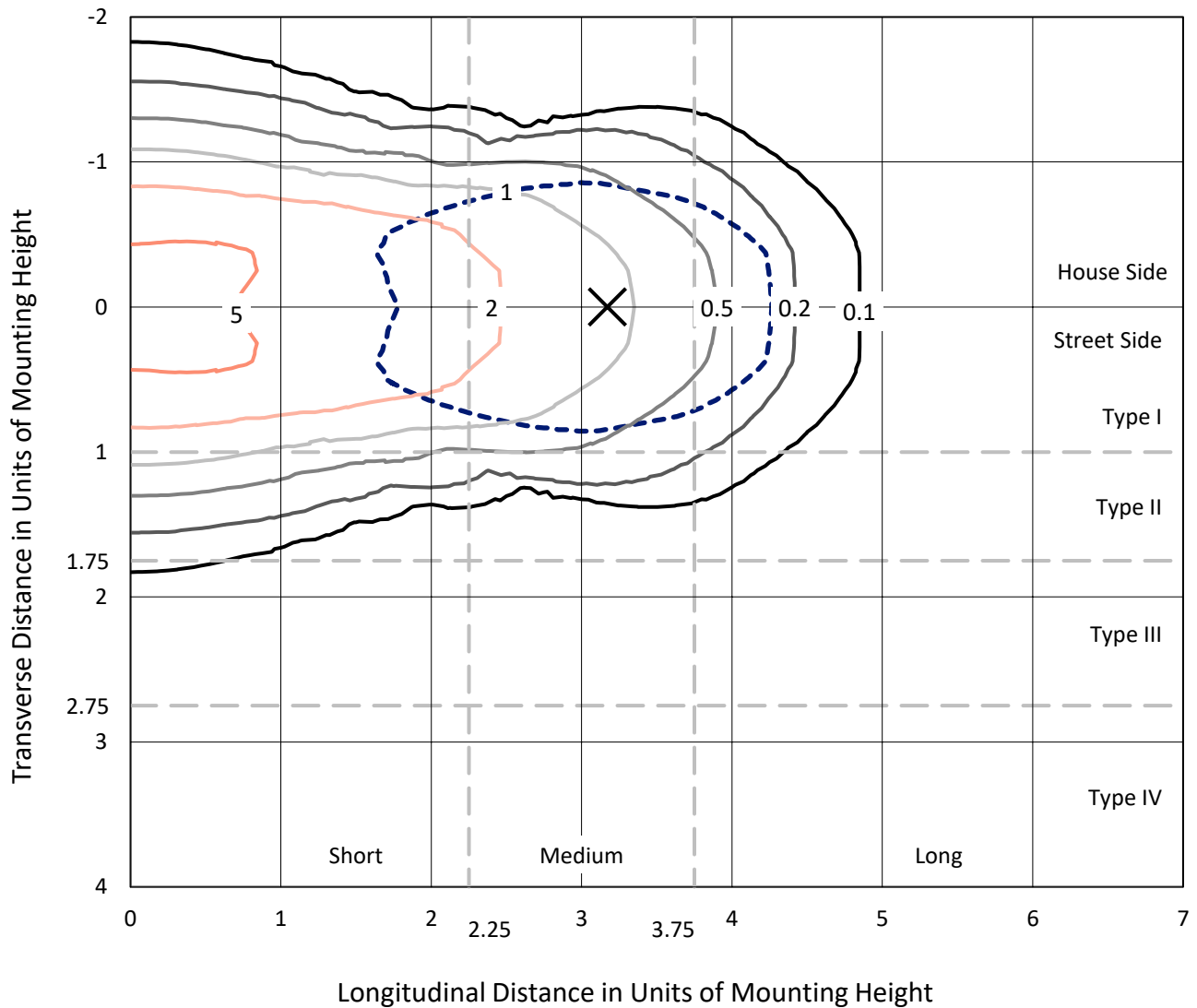
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

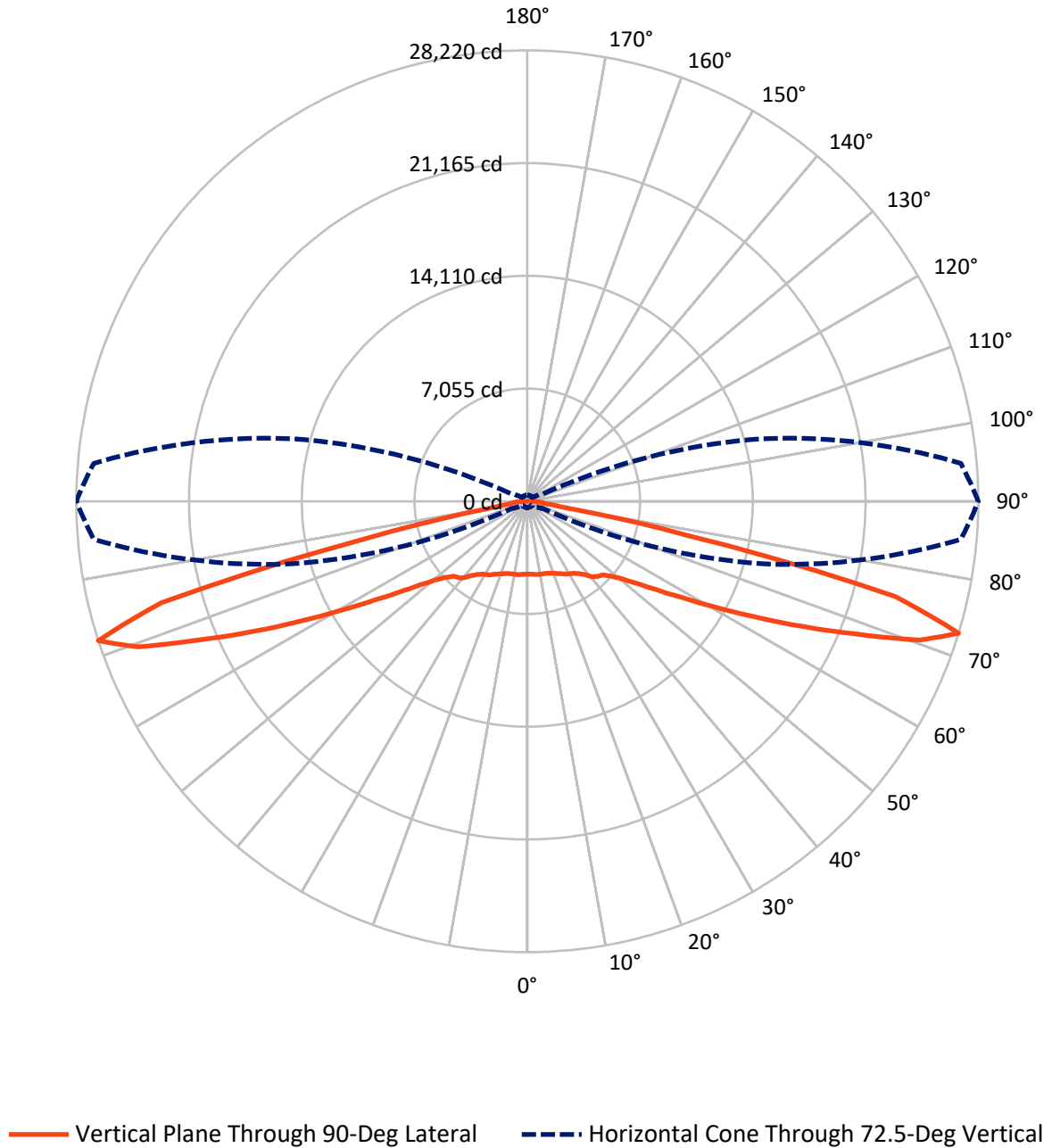
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	12205.0	0.0	12205.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12205.0	0.0	12205.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24410.0	0.0	24410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	1.8
10°-20°	1352.3	5.5
20°-30°	2254.8	9.2
30°-40°	3101.1	12.7
40°-50°	3787.3	15.5
50°-60°	4380.4	17.9
60°-70°	5222.9	21.4
70°-80°	3645.2	14.9
80°-90°	223.9	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°	24410.0	100.0
0°-180°	24410.0	100.0

Coefficient of Utilization



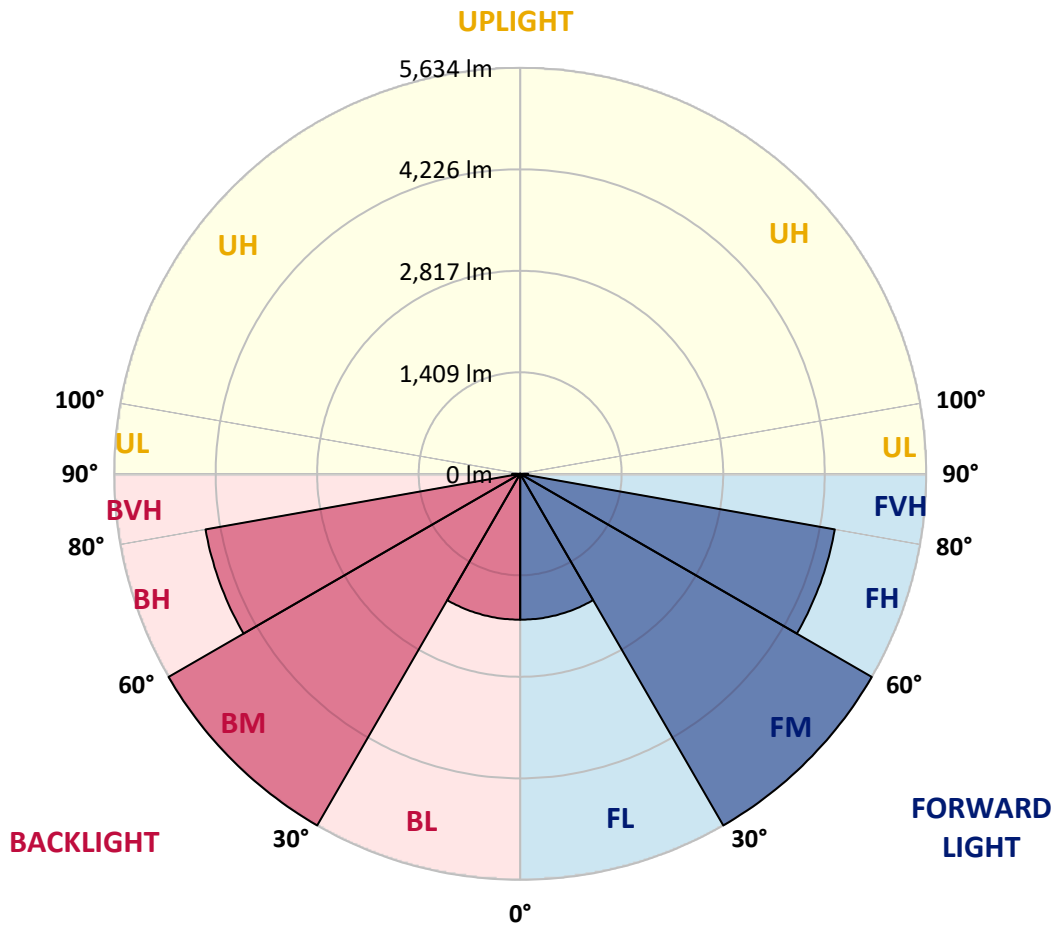
REPORT NUMBER: P884935
 CATALOG NUMBER: NAV-SB6A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.7	8.3			
FM (30°-60°)	5634.3	23.1			
FH (60°-80°)	4434.0	18.2			G2/5000
FVH (80°-90°)	111.9	0.5			G2/225
BL (0°-30°)	2024.7	8.3	B3/2500		
BM (30°-60°)	5634.3	23.1	B4/8500		
BH (60°-80°)	4434.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	111.9	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°	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3	4561.3
2.5°	4565.2	4570.3	4570.3	4566.5	4575.5	4567.8	4567.8	4563.9	4567.8	4563.9	4563.9
5°	4588.5	4595.0	4597.6	4596.3	4608.0	4601.5	4601.5	4596.3	4597.6	4593.7	4593.7
7.5°	4632.6	4641.7	4646.9	4653.4	4670.2	4662.5	4657.3	4641.7	4635.2	4624.8	4624.8
10°	4646.9	4657.3	4674.1	4707.9	4746.8	4748.1	4732.5	4693.6	4663.8	4640.4	4636.5
12.5°	4602.8	4617.0	4652.1	4720.8	4807.8	4842.8	4818.1	4753.3	4694.9	4653.4	4646.9
15°	4547.0	4562.6	4615.8	4719.5	4848.0	4929.7	4927.1	4841.5	4748.1	4683.2	4672.8
17.5°	4460.1	4475.6	4552.2	4697.5	4879.1	5014.0	5050.3	4962.1	4831.1	4744.2	4729.9
20°	4303.1	4317.4	4423.8	4627.4	4889.5	5103.5	5198.2	5120.4	4956.9	4838.9	4816.8
22.5°	4099.4	4121.5	4246.0	4506.8	4864.8	5196.9	5366.9	5313.7	5103.5	4940.1	4910.2
25°	3881.5	3904.8	4050.1	4358.9	4801.3	5264.4	5566.7	5532.9	5269.6	5065.9	5024.4
27.5°	3693.4	3718.0	3876.3	4212.3	4702.7	5290.3	5763.9	5780.7	5470.7	5204.7	5160.6
30°	3545.5	3568.8	3737.5	4094.2	4575.5	5264.4	5936.4	6053.1	5675.6	5325.4	5261.8
32.5°	3383.3	3413.2	3590.9	3950.2	4425.1	5202.1	6086.9	6347.6	5913.0	5455.1	5374.7
35°	3178.4	3205.6	3392.4	3753.1	4227.9	5102.2	6212.7	6674.5	6252.9	5652.3	5562.8
37.5°	2929.3	2955.2	3140.7	3506.6	4032.0	4962.1	6308.7	7043.0	6657.7	5936.4	5817.0
40°	2678.9	2703.5	2877.4	3231.5	3797.2	4783.1	6342.4	7403.6	7122.1	6326.9	6199.7
42.5°	2449.3	2471.3	2630.9	2960.4	3533.8	4554.8	6298.3	7717.6	7538.5	6599.3	6435.8
45°	2237.8	2257.3	2398.7	2706.1	3260.1	4277.2	6166.0	8054.9	8034.1	6793.9	6573.4
47.5°	1996.5	2016.0	2162.6	2459.7	2986.4	3951.5	5941.6	8387.0	8723.0	7235.0	6980.7
50°	1702.0	1718.9	1869.4	2175.6	2702.3	3605.2	5630.2	8647.7	9592.2	7903.1	7583.9
52.5°	1353.1	1371.2	1517.8	1824.0	2365.0	3232.8	5220.3	8817.7	10596.3	8878.6	8485.6
55°	1006.7	1019.7	1146.8	1421.8	1947.2	2808.6	4706.6	8865.7	11735.3	10212.3	9720.6
57.5°	730.4	738.2	819.9	1024.9	1476.3	2278.0	4082.6	8741.1	13090.9	11922.1	11303.3
60°	591.6	594.2	618.8	709.6	1026.2	1678.7	3328.8	8313.0	14562.1	14126.2	13346.5
62.5°	537.1	537.1	543.6	568.2	694.0	1107.9	2416.8	7425.7	16139.6	16911.5	15867.1
65°	499.5	499.5	502.1	513.7	547.5	705.7	1525.6	5980.5	17469.3	20174.1	18853.5
67.5°	465.7	467.0	465.7	469.6	489.1	521.5	884.8	4130.6	18185.4	23554.9	22129.1
70°	430.7	433.3	426.8	426.8	442.4	443.7	553.9	2265.1	17591.2	26388.1	26013.2
72.5°	389.2	393.1	382.7	380.1	391.8	386.6	416.4	1087.1	15103.0	27234.0	28219.9
75°	352.9	358.1	334.7	328.2	328.2	324.3	338.6	557.8	9802.3	22216.1	23762.4
77.5°	320.4	330.8	293.2	272.4	267.2	255.6	276.3	341.2	4287.5	10430.2	10213.6
80°	264.6	278.9	241.3	216.6	207.6	194.6	217.9	238.7	1275.2	2422.0	2319.6
82.5°	197.2	203.7	171.2	154.4	146.6	137.5	163.5	166.1	415.1	857.5	969.1
85°	125.8	128.4	105.1	90.8	86.9	83.0	103.8	90.8	158.3	630.5	915.9
87.5°	44.1	50.6	40.2	36.3	38.9	32.4	48.0	27.2	44.1	445.0	551.3
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)