

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: P884925

Luminaire Tested: **NAV-SB6A-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884925
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21464 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

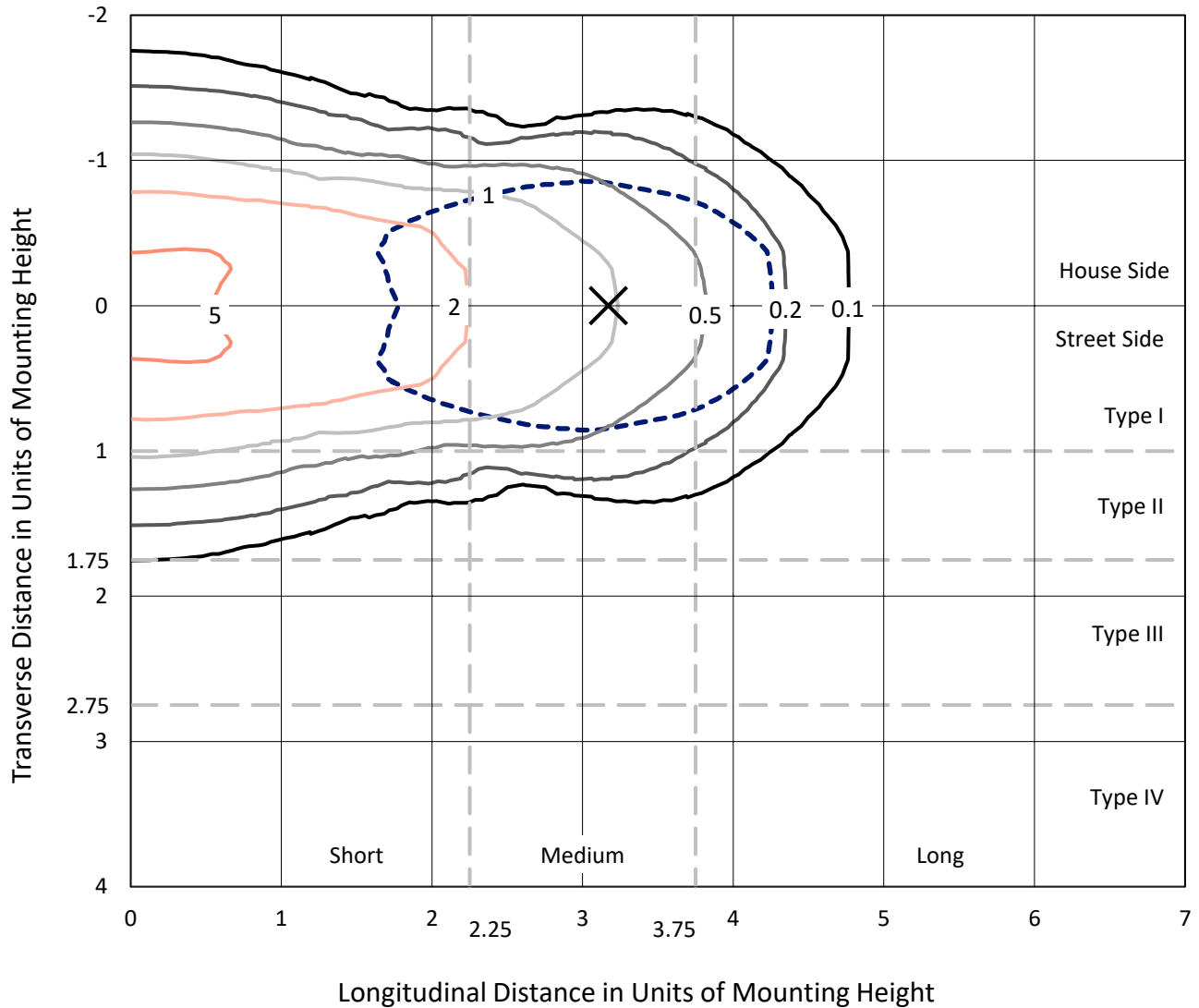
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

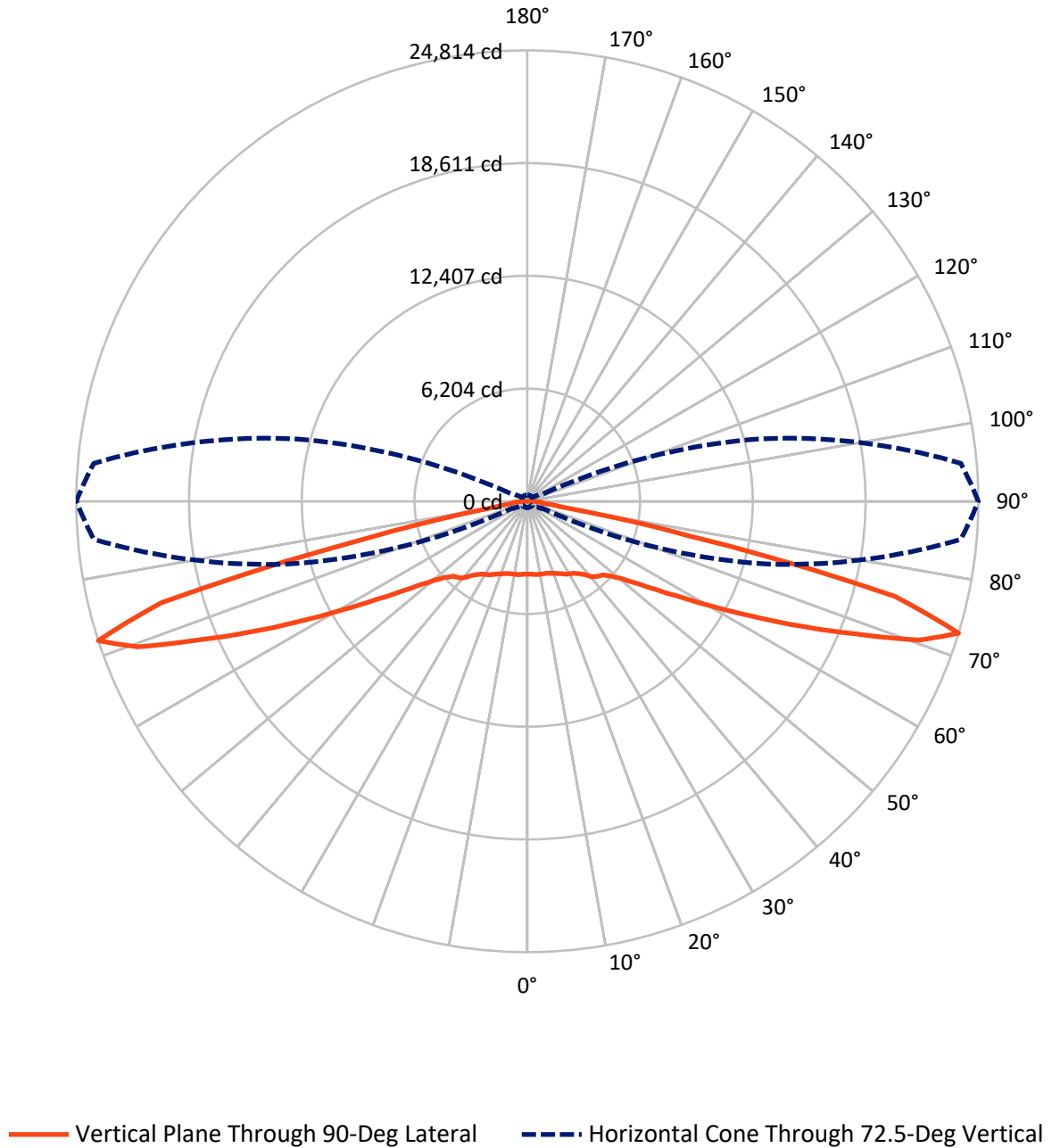
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	10732.0	0.0	10732.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10732.0	0.0	10732.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21464.0	0.0	21464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	1.8
10°-20°	1189.1	5.5
20°-30°	1982.7	9.2
30°-40°	2726.8	12.7
40°-50°	3330.2	15.5
50°-60°	3851.7	17.9
60°-70°	4592.5	21.4
70°-80°	3205.3	14.9
80°-90°	196.9	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°	21464.0	100.0
0°-180°	21464.0	100.0



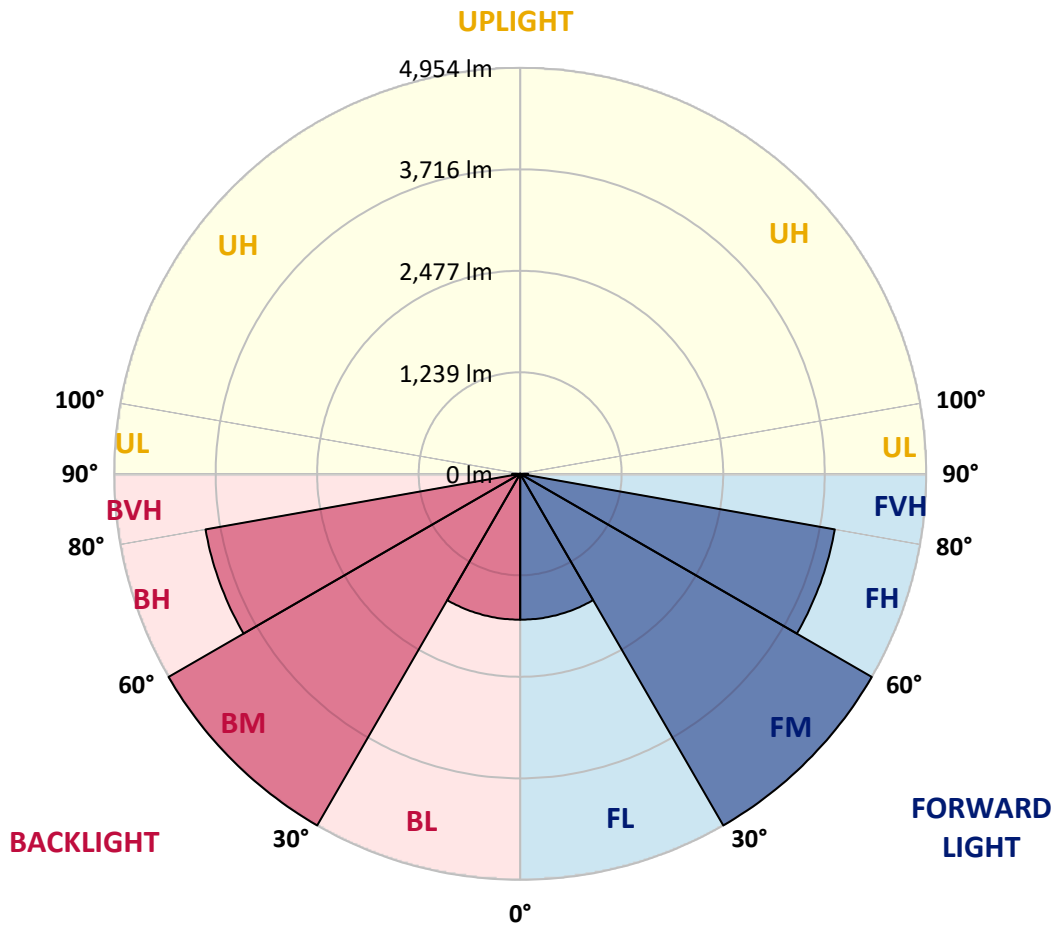
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.3	8.3			
FM (30°-60°)	4954.3	23.1			
FH (60°-80°)	3898.9	18.2			G2/5000
FVH (80°-90°)	98.4	0.5			G1/100
BL (0°-30°)	1780.3	8.3	B3/2500		
BM (30°-60°)	4954.3	23.1	B3/5000		
BH (60°-80°)	3898.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	98.4	0.5			G1/100
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°	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8	4010.8
2.5°	4014.2	4018.8	4018.8	4015.3	4023.3	4016.5	4016.5	4013.1	4016.5	4013.1	4013.1
5°	4034.7	4040.4	4042.7	4041.6	4051.8	4046.1	4046.1	4041.6	4042.7	4039.3	4039.3
7.5°	4073.5	4081.5	4086.1	4091.8	4106.6	4099.8	4095.2	4081.5	4075.8	4066.7	4066.7
10°	4086.1	4095.2	4110.0	4139.7	4173.9	4175.0	4161.4	4127.1	4100.9	4080.4	4076.9
12.5°	4047.3	4059.8	4090.6	4151.1	4227.5	4258.3	4236.6	4179.6	4128.3	4091.8	4086.1
15°	3998.2	4011.9	4058.7	4149.9	4262.9	4334.7	4332.5	4257.2	4175.0	4118.0	4108.9
17.5°	3921.8	3935.5	4002.8	4130.6	4290.3	4408.9	4440.8	4363.3	4248.0	4171.6	4159.1
20°	3783.8	3796.3	3889.9	4069.0	4299.4	4487.6	4570.9	4502.4	4358.7	4254.9	4235.5
22.5°	3604.7	3624.1	3733.6	3962.9	4277.7	4569.7	4719.2	4672.4	4487.6	4343.9	4317.6
25°	3413.0	3433.6	3561.3	3832.8	4221.8	4629.0	4894.8	4865.2	4633.6	4454.5	4418.0
27.5°	3247.6	3269.3	3408.5	3703.9	4135.1	4651.9	5068.2	5083.1	4810.4	4576.6	4537.8
30°	3117.6	3138.1	3286.4	3600.1	4023.3	4629.0	5219.9	5322.6	4990.7	4682.7	4626.8
32.5°	2975.0	3001.2	3157.5	3473.5	3891.0	4574.3	5352.3	5581.5	5199.4	4796.7	4726.0
35°	2794.8	2818.7	2983.0	3300.1	3717.6	4486.5	5462.9	5869.0	5498.3	4970.1	4891.4
37.5°	2575.7	2598.6	2761.7	3083.4	3545.4	4363.3	5547.3	6193.0	5854.2	5219.9	5115.0
40°	2355.6	2377.3	2530.1	2841.5	3338.9	4205.8	5577.0	6510.1	6262.6	5563.3	5451.5
42.5°	2153.7	2173.1	2313.4	2603.1	3107.3	4005.1	5538.2	6786.1	6628.7	5802.8	5659.1
45°	1967.7	1984.9	2109.2	2379.5	2866.6	3761.0	5421.8	7082.7	7064.5	5974.0	5780.0
47.5°	1755.6	1772.7	1901.6	2162.8	2625.9	3474.6	5224.5	7374.8	7670.2	6361.8	6138.2
50°	1496.6	1511.5	1643.8	1913.0	2376.1	3170.1	4950.7	7604.0	8434.5	6949.3	6668.7
52.5°	1189.8	1205.7	1334.6	1603.9	2079.5	2842.7	4590.3	7753.5	9317.4	7807.1	7461.5
55°	885.2	896.6	1008.4	1250.2	1712.2	2469.7	4138.5	7795.7	10319.0	8979.8	8547.4
57.5°	642.2	649.1	720.9	901.2	1298.1	2003.1	3589.8	7686.2	11511.0	10483.2	9939.1
60°	520.2	522.5	544.1	624.0	902.3	1476.1	2927.1	7309.7	12804.6	12421.3	11735.7
62.5°	472.3	472.3	478.0	499.6	610.3	974.2	2125.2	6529.5	14191.7	14870.4	13952.2
65°	439.2	439.2	441.5	451.7	481.4	620.6	1341.5	5258.7	15360.9	17739.4	16578.1
67.5°	409.5	410.7	409.5	412.9	430.1	458.6	778.0	3632.1	15990.6	20712.1	19458.4
70°	378.7	381.0	375.3	375.3	389.0	390.1	487.1	1991.7	15468.2	23203.4	22873.7
72.5°	342.2	345.6	336.5	334.2	344.5	339.9	366.2	955.9	13280.3	23947.2	24814.1
75°	310.3	314.8	294.3	288.6	288.6	285.2	297.7	490.5	8619.3	19534.8	20894.6
77.5°	281.8	290.9	257.8	239.6	235.0	224.7	243.0	300.0	3770.1	9171.4	8980.9
80°	232.7	245.3	212.2	190.5	182.5	171.1	191.6	209.9	1121.3	2129.7	2039.6
82.5°	173.4	179.1	150.6	135.7	128.9	120.9	143.7	146.0	365.0	754.0	852.1
85°	110.6	112.9	92.4	79.9	76.4	73.0	91.3	79.9	139.2	554.4	805.3
87.5°	38.8	44.5	35.4	31.9	34.2	28.5	42.2	24.0	38.8	391.3	484.8
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)