

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: P883735

Luminaire Tested: **NAV-SB4B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883735
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-SB4B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17990 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

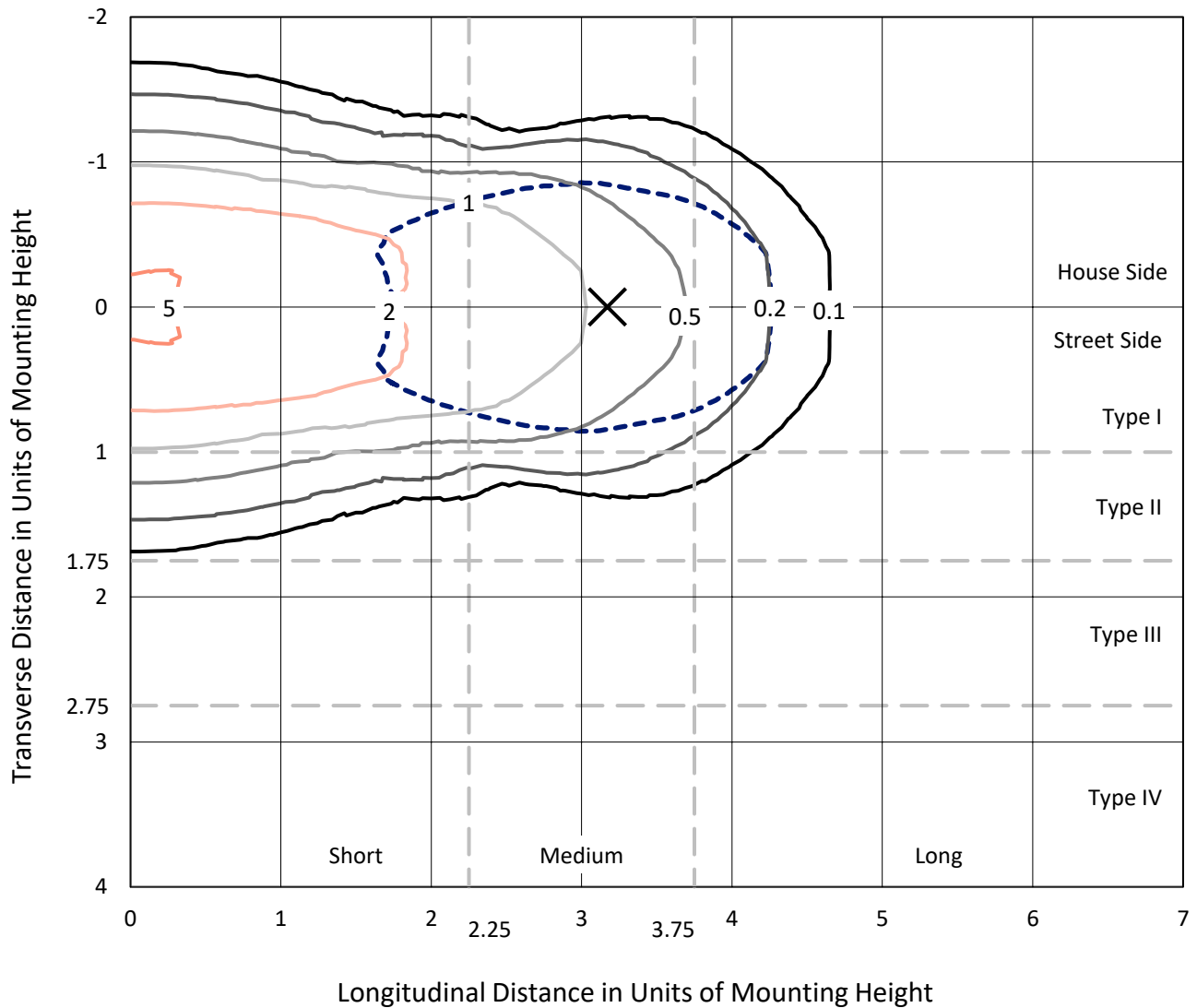
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

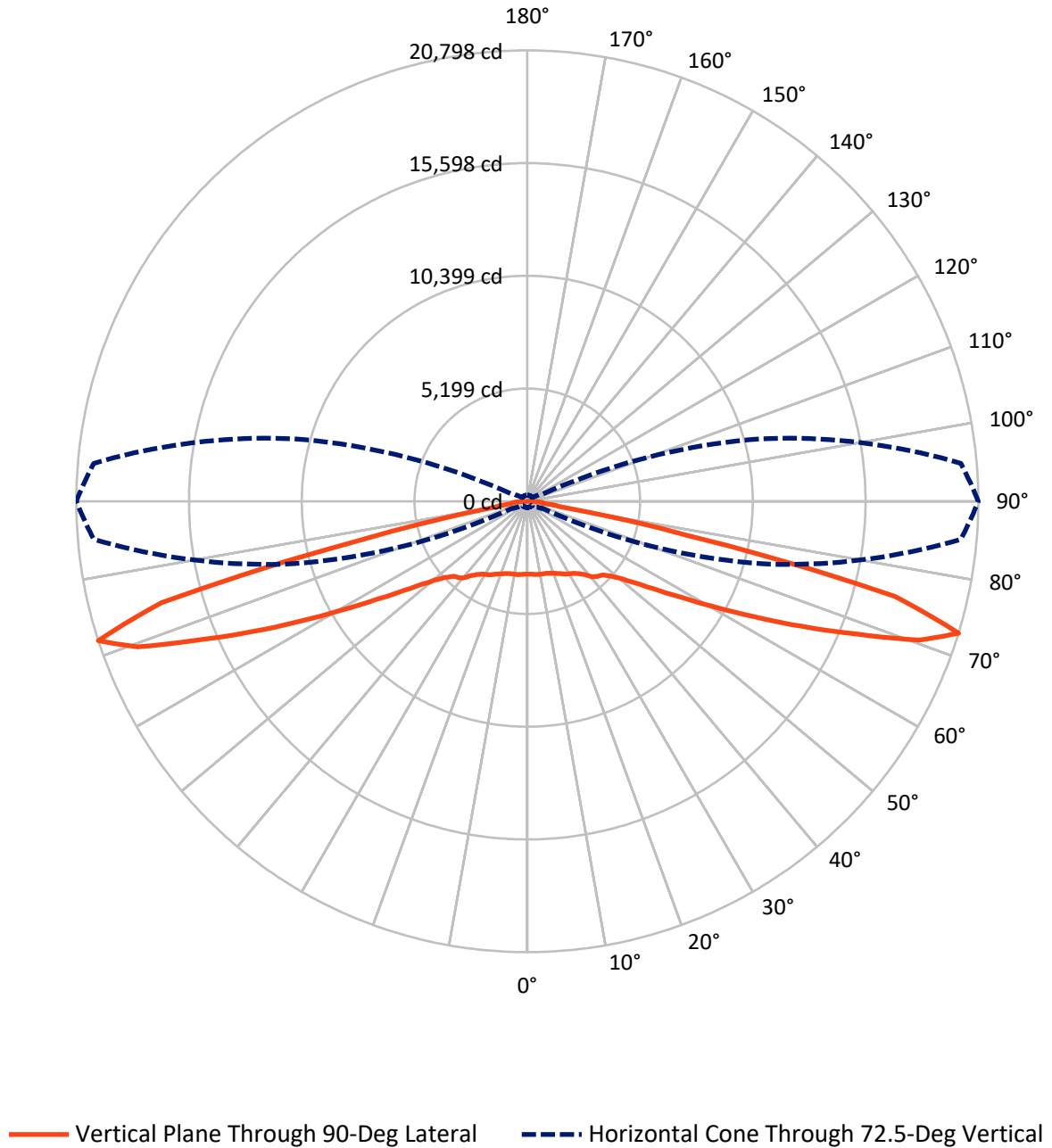
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	8995.0	0.0	8995.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8995.0	0.0	8995.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17990.0	0.0	17990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	1.8
10°-20°	996.6	5.5
20°-30°	1661.8	9.2
30°-40°	2285.5	12.7
40°-50°	2791.2	15.5
50°-60°	3228.3	17.9
60°-70°	3849.2	21.4
70°-80°	2686.5	14.9
80°-90°	165.0	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°	17990.0	100.0
0°-180°	17990.0	100.0

Coefficient of Utilization

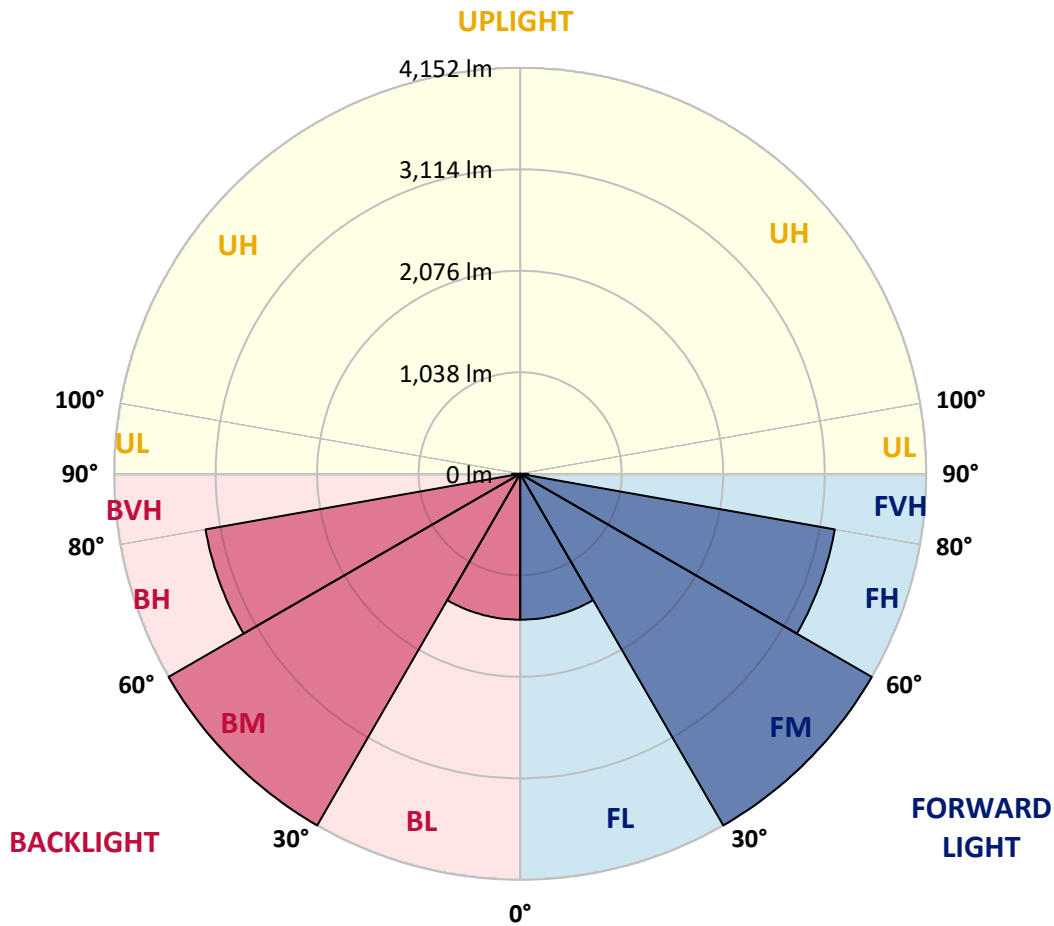


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.2	8.3			
FM (30°-60°)	4152.5	23.1			
FH (60°-80°)	3267.9	18.2			G2/5000
FVH (80°-90°)	82.5	0.5			G1/100
BL (0°-30°)	1492.2	8.3	B3/2500		
BM (30°-60°)	4152.5	23.1	B3/5000		
BH (60°-80°)	3267.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	82.5	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°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	3364.5	3368.3	3368.3	3365.4	3372.1	3366.4	3366.4	3363.5	3366.4	3363.5	3363.5
5°	3381.7	3386.5	3388.4	3387.4	3396.0	3391.3	3391.3	3387.4	3388.4	3385.5	3385.5
7.5°	3414.2	3420.9	3424.7	3429.5	3441.9	3436.2	3432.4	3420.9	3416.1	3408.5	3408.5
10°	3424.7	3432.4	3444.8	3469.7	3498.3	3499.3	3487.8	3459.1	3437.2	3419.9	3417.1
12.5°	3392.2	3402.7	3428.5	3479.2	3543.3	3569.1	3550.9	3503.1	3460.1	3429.5	3424.7
15°	3351.1	3362.6	3401.8	3478.3	3572.9	3633.2	3631.2	3568.1	3499.3	3451.5	3443.8
17.5°	3287.0	3298.5	3354.9	3462.0	3595.9	3695.3	3722.1	3657.1	3560.5	3496.4	3485.9
20°	3171.4	3181.9	3260.3	3410.4	3603.5	3761.3	3831.1	3773.7	3653.2	3566.2	3550.0
22.5°	3021.3	3037.5	3129.3	3321.5	3585.3	3830.1	3955.4	3916.2	3761.3	3640.8	3618.8
25°	2860.6	2877.8	2984.9	3212.5	3538.5	3879.8	4102.6	4077.7	3883.6	3733.5	3702.9
27.5°	2722.0	2740.2	2856.8	3104.4	3465.8	3898.9	4247.9	4260.3	4031.8	3835.8	3803.3
30°	2613.0	2630.2	2754.5	3017.4	3372.1	3879.8	4375.1	4461.1	4182.9	3924.8	3877.9
32.5°	2493.5	2515.5	2646.5	2911.3	3261.2	3833.9	4486.0	4678.2	4357.9	4020.4	3961.1
35°	2342.4	2362.5	2500.2	2766.0	3115.9	3760.3	4578.7	4919.1	4608.4	4165.7	4099.7
37.5°	2158.9	2178.0	2314.7	2584.3	2971.5	3657.1	4649.5	5190.6	4906.7	4375.1	4287.1
40°	1974.3	1992.5	2120.6	2381.6	2798.5	3525.1	4674.3	5456.4	5248.9	4662.9	4569.2
42.5°	1805.1	1821.4	1939.0	2181.8	2604.4	3356.8	4641.8	5687.8	5555.9	4863.6	4743.2
45°	1649.3	1663.6	1767.8	1994.4	2402.7	3152.2	4544.3	5936.4	5921.1	5007.1	4844.5
47.5°	1471.4	1485.8	1593.8	1812.8	2200.9	2912.3	4378.9	6181.1	6428.8	5332.1	5144.7
50°	1254.4	1266.8	1377.7	1603.4	1991.5	2657.0	4149.4	6373.3	7069.3	5824.5	5589.3
52.5°	997.2	1010.6	1118.6	1344.3	1743.0	2382.6	3847.3	6498.6	7809.4	6543.5	6253.8
55°	741.9	751.5	845.2	1047.9	1435.1	2069.9	3468.7	6533.9	8648.8	7526.4	7164.0
57.5°	538.3	544.0	604.3	755.3	1088.0	1678.9	3008.8	6442.2	9647.9	8786.5	8330.4
60°	436.0	437.9	456.1	523.0	756.3	1237.2	2453.3	6126.6	10732.1	10410.9	9836.3
62.5°	395.8	395.8	400.6	418.8	511.5	816.5	1781.2	5472.7	11894.7	12463.6	11694.0
65°	368.1	368.1	370.0	378.6	403.5	520.1	1124.4	4407.6	12874.7	14868.2	13894.9
67.5°	343.2	344.2	343.2	346.1	360.4	384.3	652.1	3044.2	13402.5	17359.8	16309.0
70°	317.4	319.3	314.6	314.6	326.0	327.0	408.3	1669.3	12964.6	19447.9	19171.6
72.5°	286.8	289.7	282.0	280.1	288.7	284.9	306.9	801.2	11130.8	20071.3	20797.9
75°	260.1	263.9	246.7	241.9	241.9	239.0	249.5	411.1	7224.2	16373.1	17512.7
77.5°	236.2	243.8	216.1	200.8	197.0	188.4	203.6	251.5	3159.9	7687.0	7527.3
80°	195.0	205.6	177.8	159.7	153.0	143.4	160.6	175.9	939.8	1785.0	1709.5
82.5°	145.3	150.1	126.2	113.8	108.0	101.3	120.5	122.4	305.9	632.0	714.2
85°	92.7	94.7	77.4	66.9	64.1	61.2	76.5	66.9	116.6	464.7	675.0
87.5°	32.5	37.3	29.6	26.8	28.7	23.9	35.4	20.1	32.5	327.9	406.3
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)