

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: P884075

Luminaire Tested: **NAV-SB4D-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884075
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-SB4D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32510 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

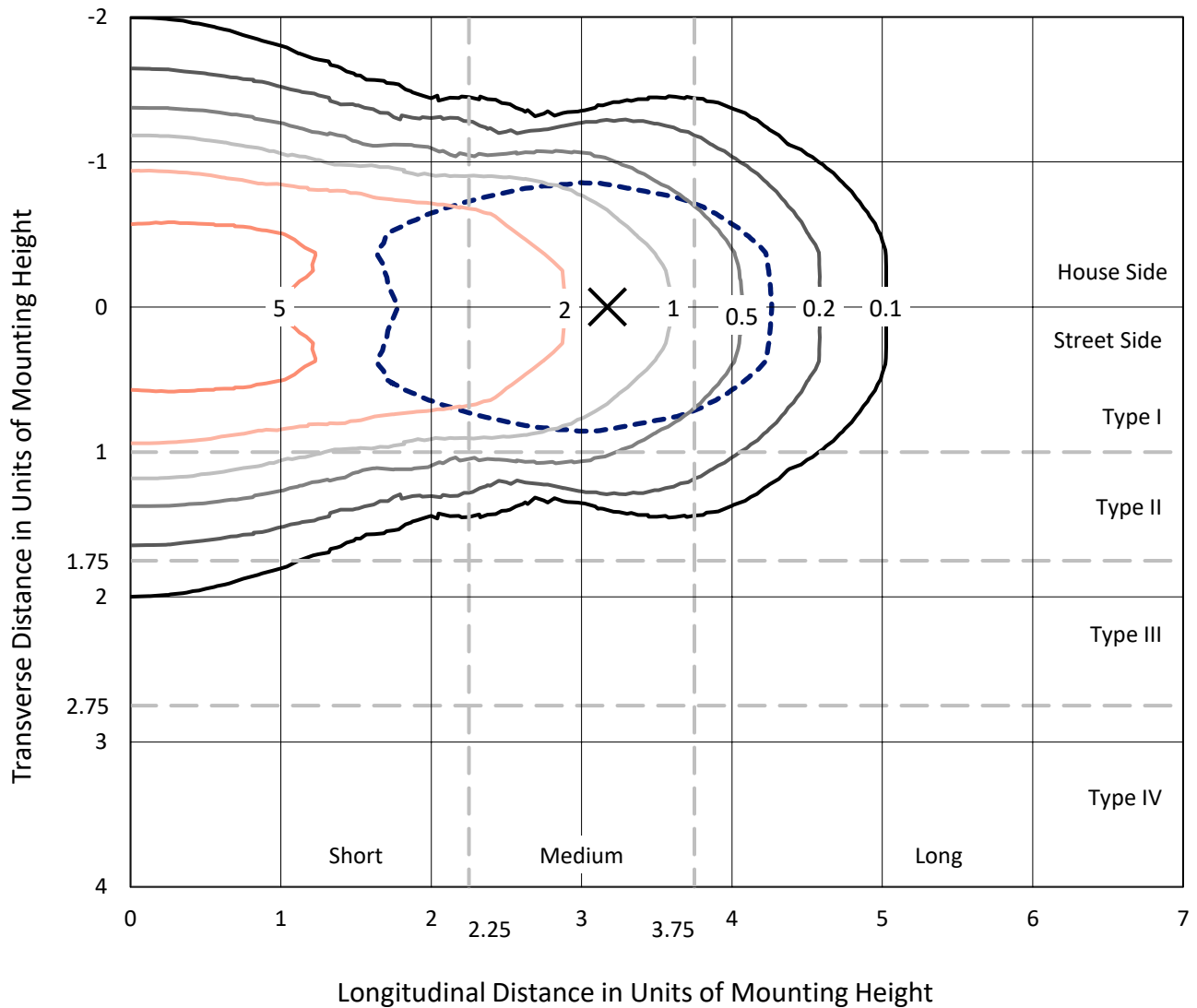
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

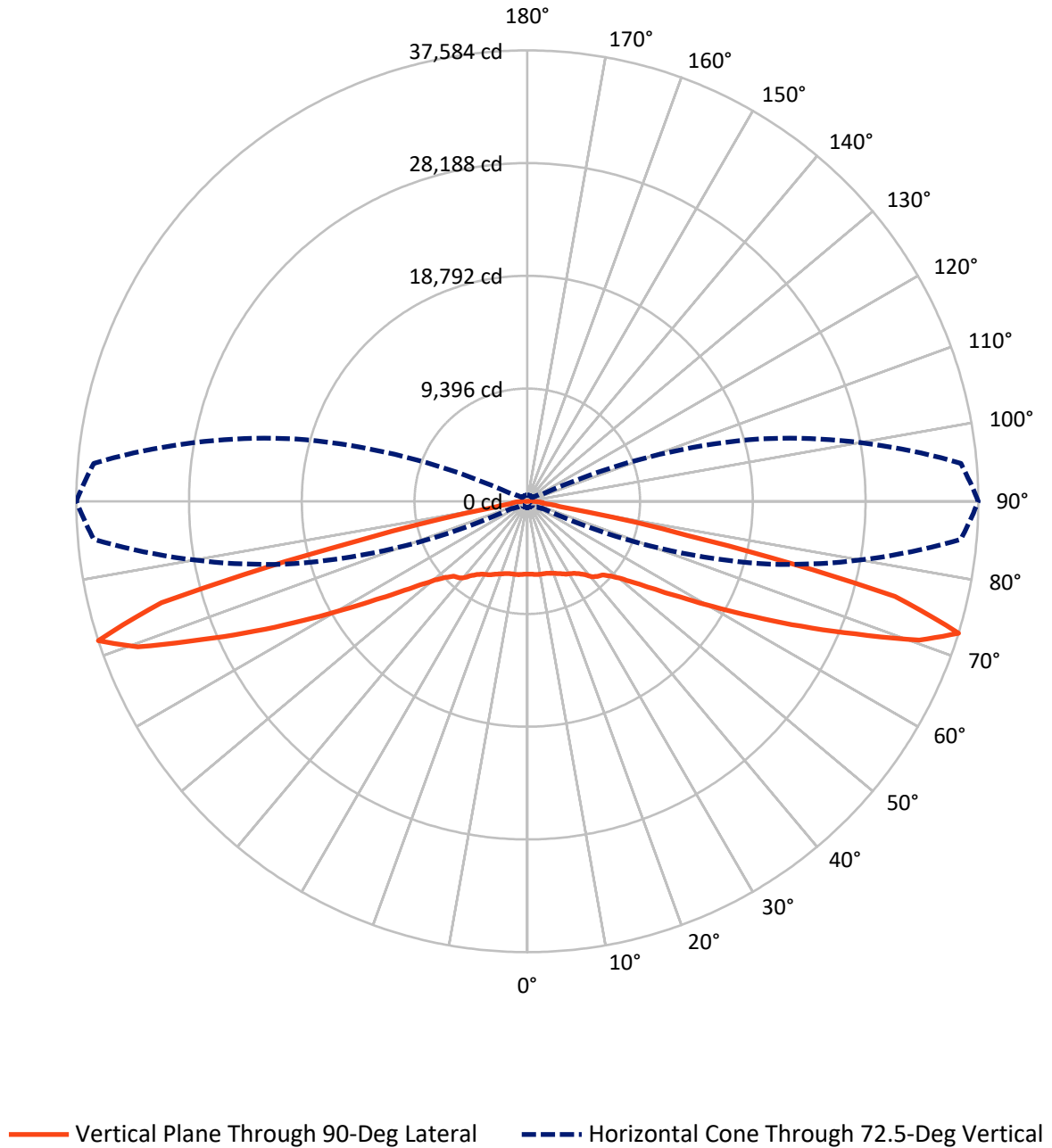
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	16255.0	0.0	16255.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16255.0	0.0	16255.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32510.0	0.0	32510.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.0	1.8
10°-20°	1801.0	5.5
20°-30°	3003.0	9.2
30°-40°	4130.1	12.7
40°-50°	5044.0	15.5
50°-60°	5833.9	17.9
60°-70°	6956.0	21.4
70°-80°	4854.8	14.9
80°-90°	298.2	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°	32510.0	100.0
0°-180°	32510.0	100.0



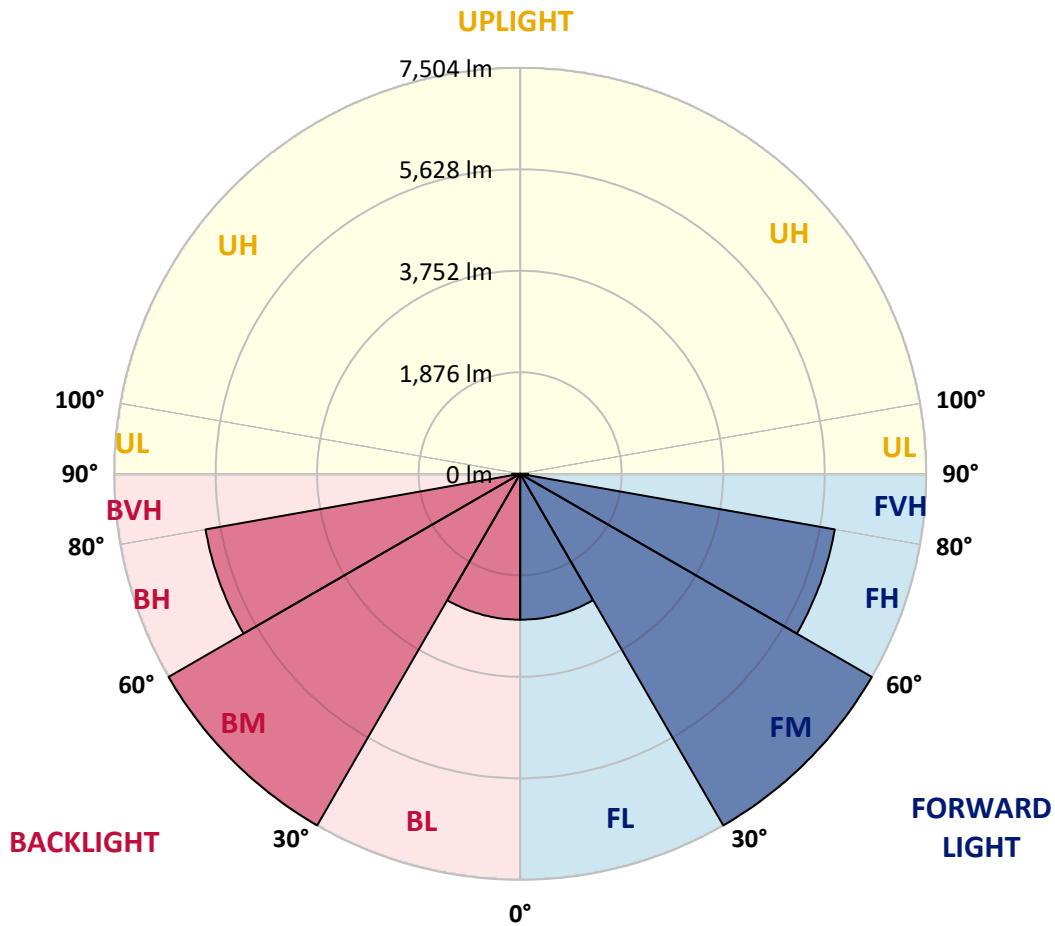
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2696.5	8.3			
FM (30°-60°)	7504.0	23.1			
FH (60°-80°)	5905.4	18.2			G3/7500
FVH (80°-90°)	149.1	0.5			G2/225
BL (0°-30°)	2696.5	8.3	B4/5000		
BM (30°-60°)	7504.0	23.1	B4/8500		
BH (60°-80°)	5905.4	18.2	B5		G5
BVH (80°-90°)	149.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8	6074.8
2.5°	6080.0	6086.9	6086.9	6081.7	6093.8	6083.5	6083.5	6078.3	6083.5	6078.3	6078.3
5°	6111.1	6119.8	6123.2	6121.5	6137.0	6128.4	6128.4	6121.5	6123.2	6118.0	6118.0
7.5°	6169.9	6182.0	6188.9	6197.5	6220.0	6209.6	6202.7	6182.0	6173.3	6159.5	6159.5
10°	6188.9	6202.7	6225.2	6270.1	6321.9	6323.6	6302.9	6251.1	6211.3	6180.2	6175.0
12.5°	6130.1	6149.1	6195.8	6287.4	6403.1	6449.8	6416.9	6330.5	6252.8	6197.5	6188.9
15°	6055.8	6076.6	6147.4	6285.6	6456.7	6565.5	6562.1	6448.0	6323.6	6237.2	6223.4
17.5°	5940.1	5960.8	6062.7	6256.3	6498.1	6677.8	6726.2	6608.7	6434.2	6318.5	6299.4
20°	5731.0	5750.0	5891.7	6163.0	6512.0	6797.0	6923.2	6819.5	6601.8	6444.6	6415.2
22.5°	5459.8	5489.1	5655.0	6002.3	6479.1	6921.4	7147.8	7076.9	6797.0	6579.3	6539.6
25°	5169.5	5200.6	5394.1	5805.3	6394.5	7011.3	7413.9	7368.9	7018.2	6746.9	6691.7
27.5°	4919.0	4951.8	5162.6	5610.1	6263.2	7045.8	7676.5	7698.9	7286.0	6931.8	6873.1
30°	4722.0	4753.1	4977.7	5452.8	6093.8	7011.3	7906.3	8061.8	7559.0	7092.5	7007.8
32.5°	4506.0	4545.8	4782.5	5261.1	5893.4	6928.4	8106.7	8454.0	7875.2	7265.3	7158.1
35°	4233.0	4269.3	4518.1	4998.4	5630.8	6795.3	8274.3	8889.4	8327.8	7527.9	7408.7
37.5°	3901.3	3935.9	4182.9	4670.2	5369.9	6608.7	8402.1	9380.1	8866.9	7906.3	7747.3
40°	3567.8	3600.7	3832.2	4303.9	5057.2	6370.3	8447.1	9860.4	9485.5	8426.3	8257.0
42.5°	3262.0	3291.4	3503.9	3942.8	4706.4	6066.2	8388.3	10278.5	10040.1	8789.2	8571.5
45°	2980.4	3006.3	3194.6	3604.1	4341.9	5696.5	8212.1	10727.7	10700.1	9048.3	8754.6
47.5°	2659.0	2685.0	2880.2	3275.9	3977.3	5262.8	7913.2	11170.0	11617.5	9635.8	9297.1
50°	2266.8	2289.3	2489.7	2897.5	3598.9	4801.5	7498.5	11517.3	12775.1	10525.6	10100.5
52.5°	1802.1	1826.3	2021.5	2429.2	3149.7	4305.6	6952.5	11743.6	14112.4	11824.9	11301.3
55°	1340.7	1358.0	1527.3	1893.6	2593.4	3740.6	6268.3	11807.6	15629.4	13601.0	12946.2
57.5°	972.7	983.1	1092.0	1364.9	1966.2	3034.0	5437.3	11641.7	17434.9	15878.2	15054.1
60°	787.9	791.3	824.1	945.1	1366.7	2235.7	4433.5	11071.5	19394.2	18813.7	17775.3
62.5°	715.3	715.3	723.9	756.8	924.4	1475.5	3218.8	9889.8	21495.2	22523.2	21132.3
65°	665.2	665.2	668.6	684.2	729.1	939.9	2031.9	7965.0	23266.1	26868.5	25109.7
67.5°	620.3	622.0	620.3	625.5	651.4	694.6	1178.3	5501.2	24219.9	31371.1	29472.3
70°	573.6	577.1	568.4	568.4	589.2	590.9	737.8	3016.7	23428.6	35144.6	34645.2
72.5°	518.3	523.5	509.7	506.2	521.8	514.9	554.6	1447.9	20114.7	36271.1	37584.2
75°	470.0	476.9	445.8	437.1	437.1	431.9	450.9	742.9	13055.0	29588.0	31647.5
77.5°	426.8	440.6	390.5	362.8	355.9	340.4	368.0	454.4	5710.3	13891.3	13602.7
80°	352.5	371.5	321.4	288.5	276.4	259.2	290.3	317.9	1698.4	3225.7	3089.3
82.5°	262.6	271.3	228.1	205.6	195.2	183.1	217.7	221.2	552.9	1142.1	1290.6
85°	167.6	171.0	139.9	120.9	115.8	110.6	138.2	120.9	210.8	839.7	1219.8
87.5°	58.7	67.4	53.6	48.4	51.8	43.2	63.9	36.3	58.7	592.6	734.3
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)