

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: P883585

Luminaire Tested: **NAV-SB4A-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883585
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-SB4A-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17703 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

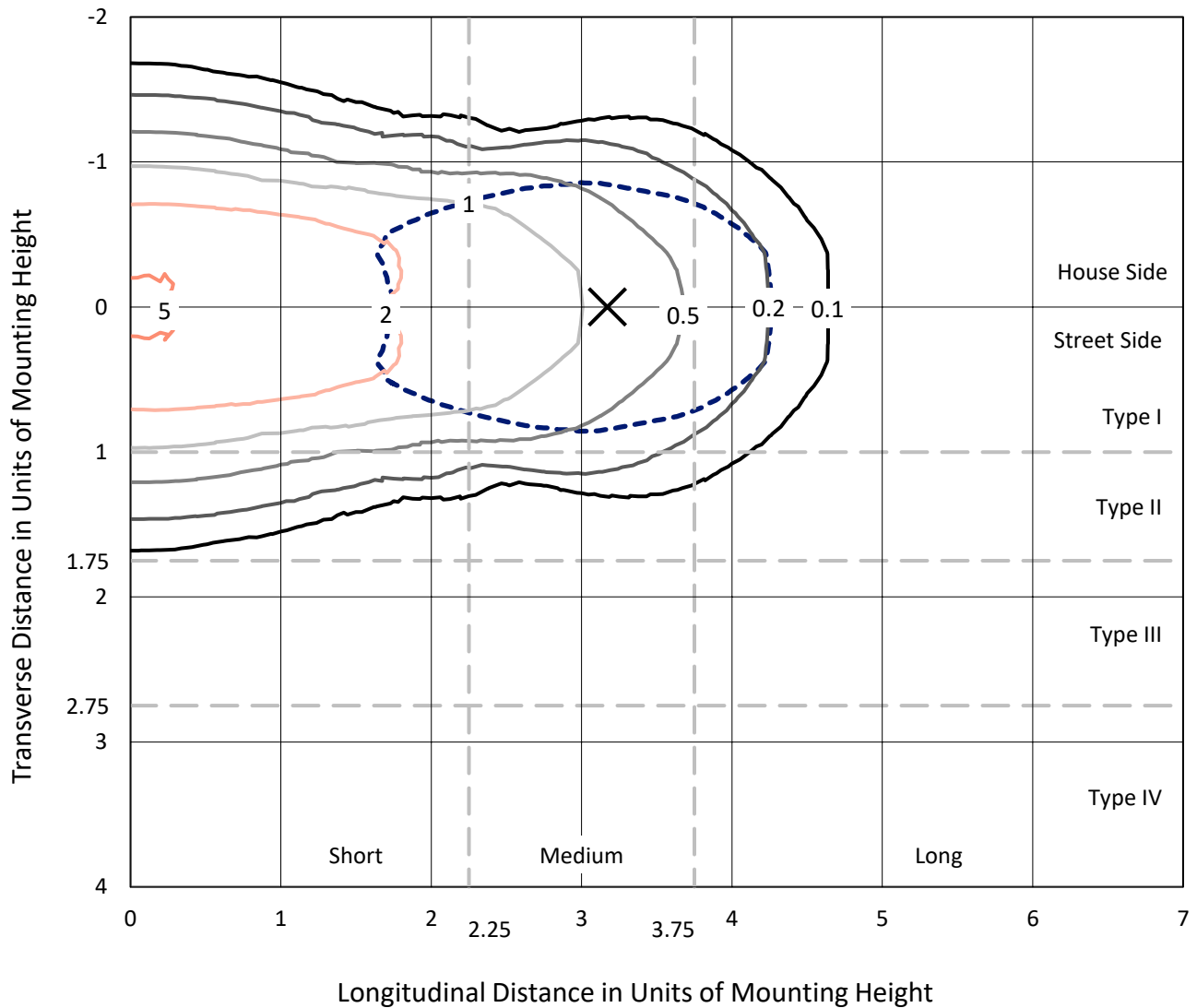
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

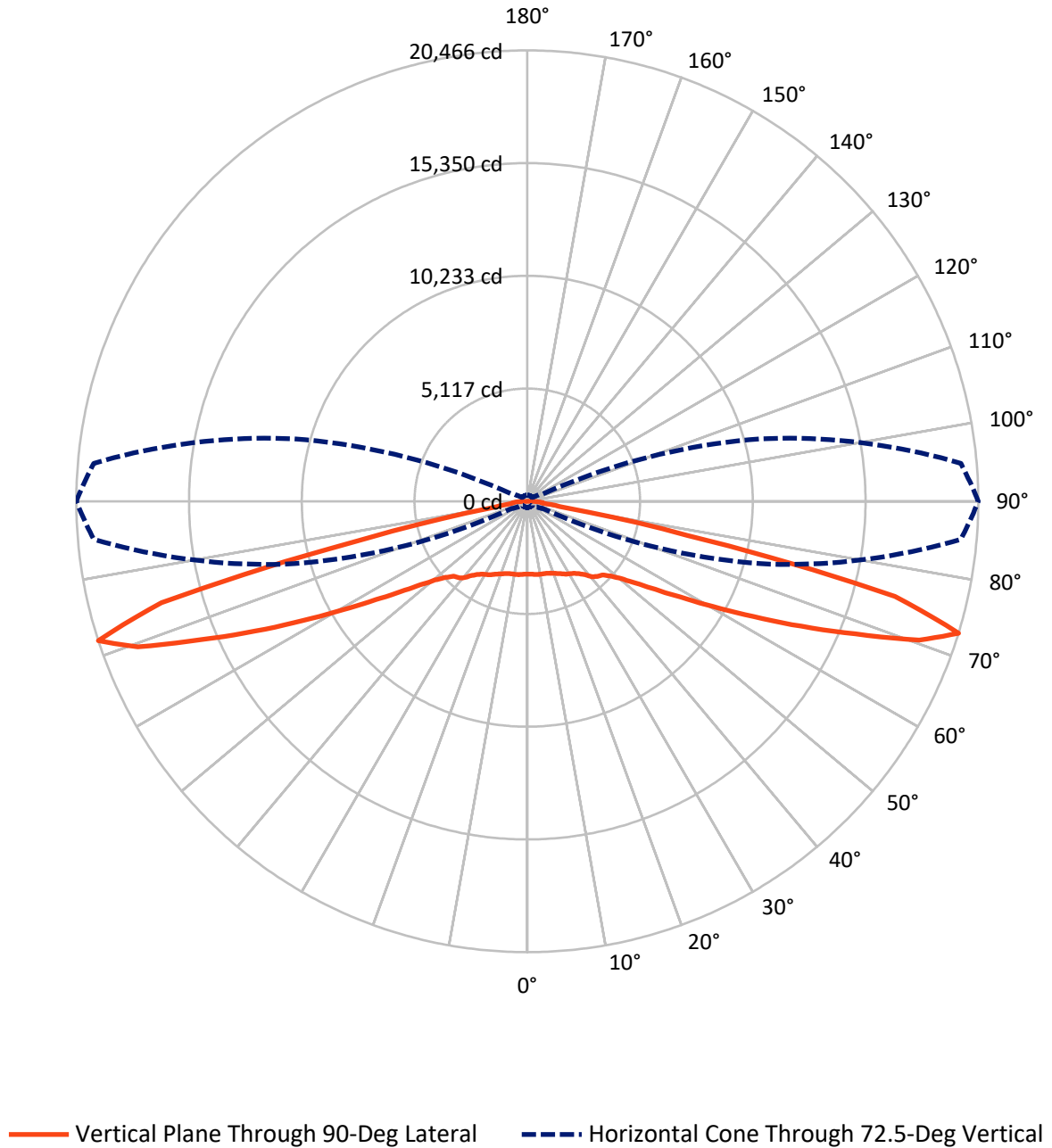
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	8851.5	0.0	8851.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8851.5	0.0	8851.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17703.0	0.0	17703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.8
10°-20°	980.7	5.5
20°-30°	1635.3	9.2
30°-40°	2249.0	12.7
40°-50°	2746.6	15.5
50°-60°	3176.8	17.9
60°-70°	3787.8	21.4
70°-80°	2643.6	14.9
80°-90°	162.4	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°	17703.0	100.0
0°-180°	17703.0	100.0

Coefficient of Utilization



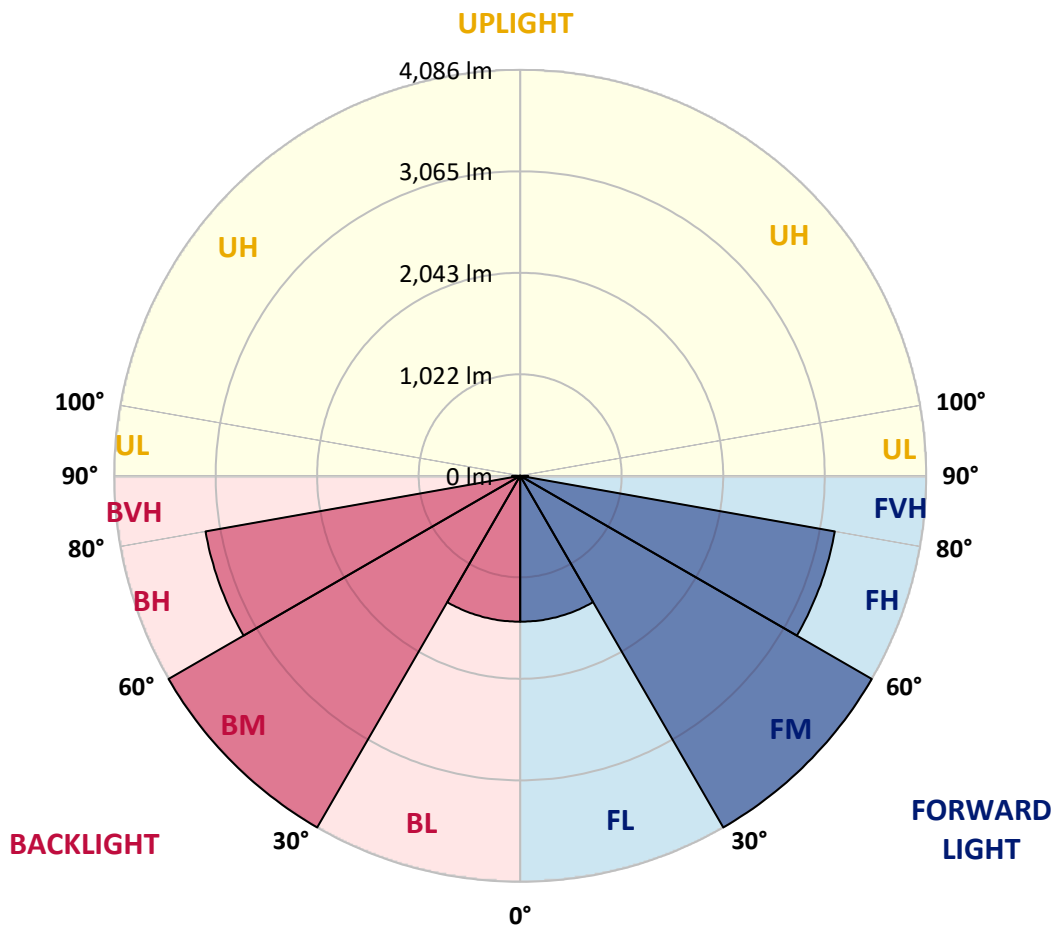
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.4	8.3			
FM (30°-60°)	4086.2	23.1			
FH (60°-80°)	3215.7	18.2			G2/5000
FVH (80°-90°)	81.2	0.5			G1/100
BL (0°-30°)	1468.4	8.3	B3/2500		
BM (30°-60°)	4086.2	23.1	B3/5000		
BH (60°-80°)	3215.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	81.2	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°	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0	3308.0
2.5°	3310.8	3314.6	3314.6	3311.8	3318.3	3312.7	3312.7	3309.9	3312.7	3309.9	3309.9
5°	3327.8	3332.5	3334.3	3333.4	3341.9	3337.2	3337.2	3333.4	3334.3	3331.5	3331.5
7.5°	3359.7	3366.3	3370.1	3374.8	3387.0	3381.4	3377.6	3366.3	3361.6	3354.1	3354.1
10°	3370.1	3377.6	3389.8	3414.3	3442.5	3443.5	3432.2	3404.0	3382.3	3365.4	3362.6
12.5°	3338.1	3348.4	3373.9	3423.7	3486.8	3512.2	3494.3	3447.2	3404.9	3374.8	3370.1
15°	3297.6	3308.9	3347.5	3422.8	3515.9	3575.2	3573.3	3511.2	3443.5	3396.4	3388.9
17.5°	3234.6	3245.9	3301.4	3406.8	3538.5	3636.3	3662.7	3598.7	3503.7	3440.7	3430.3
20°	3120.8	3131.1	3208.3	3356.0	3546.0	3701.3	3769.9	3713.5	3594.9	3509.3	3493.3
22.5°	2973.1	2989.0	3079.4	3268.5	3528.1	3769.0	3892.3	3853.7	3701.3	3582.7	3561.1
25°	2815.0	2831.9	2937.3	3161.2	3482.0	3817.9	4037.1	4012.7	3821.7	3674.0	3643.9
27.5°	2678.6	2696.4	2811.2	3054.9	3410.5	3836.7	4180.2	4192.4	3967.5	3774.6	3742.7
30°	2571.3	2588.3	2710.6	2969.3	3318.3	3817.9	4305.3	4390.0	4116.2	3862.1	3816.0
32.5°	2453.7	2475.3	2604.2	2864.9	3209.2	3772.8	4414.4	4603.5	4288.3	3956.2	3897.9
35°	2305.1	2324.8	2460.3	2721.8	3066.2	3700.3	4505.7	4840.6	4534.8	4099.2	4034.3
37.5°	2124.4	2143.2	2277.8	2543.1	2924.1	3598.7	4575.3	5107.8	4828.4	4305.3	4218.7
40°	1942.8	1960.7	2086.8	2343.6	2753.8	3468.9	4599.8	5369.4	5165.2	4588.5	4496.3
42.5°	1776.3	1792.3	1908.0	2147.0	2562.8	3303.3	4567.8	5597.1	5467.2	4786.1	4667.5
45°	1622.9	1637.1	1739.6	1962.6	2364.3	3101.9	4471.8	5841.7	5826.6	4927.2	4767.2
47.5°	1448.0	1462.1	1568.4	1783.8	2165.8	2865.8	4309.0	6082.5	6326.2	5247.1	5062.7
50°	1234.4	1246.6	1355.8	1577.8	1959.8	2614.6	4083.2	6271.6	6956.6	5731.6	5500.1
52.5°	981.3	994.5	1100.8	1322.8	1715.2	2344.6	3785.9	6394.9	7684.8	6439.1	6154.0
55°	730.1	739.5	831.7	1031.2	1412.2	2036.9	3413.4	6429.7	8510.8	7406.3	7049.7
57.5°	529.7	535.3	594.6	743.3	1070.7	1652.1	2960.8	6339.4	9494.0	8646.3	8197.5
60°	429.0	430.9	448.8	514.6	744.2	1217.4	2414.2	6028.9	10560.9	10244.8	9679.4
62.5°	389.5	389.5	394.2	412.1	503.3	803.5	1752.8	5385.4	11705.0	12264.8	11507.4
65°	362.2	362.2	364.1	372.6	397.0	511.8	1106.4	4337.3	12669.3	14631.0	13673.2
67.5°	337.8	338.7	337.8	340.6	354.7	378.2	641.7	2995.6	13188.7	17082.8	16048.8
70°	312.4	314.2	309.5	309.5	320.8	321.8	401.7	1642.7	12757.8	19137.6	18865.7
72.5°	282.3	285.1	277.5	275.7	284.1	280.4	302.0	788.4	10953.3	19751.0	20466.1
75°	255.9	259.7	242.7	238.0	238.0	235.2	245.6	404.6	7109.0	16111.9	17233.4
77.5°	232.4	239.9	212.6	197.6	193.8	185.3	200.4	247.4	3109.5	7564.4	7407.2
80°	191.9	202.3	175.0	157.1	150.5	141.1	158.1	173.1	924.8	1756.5	1682.2
82.5°	143.0	147.7	124.2	112.0	106.3	99.7	118.5	120.4	301.1	621.9	702.8
85°	91.3	93.1	76.2	65.9	63.0	60.2	75.3	65.9	114.8	457.2	664.2
87.5°	32.0	36.7	29.2	26.3	28.2	23.5	34.8	19.8	32.0	322.7	399.9
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)