

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: P883225

Luminaire Tested: **NAV-SB3C-722-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883225  
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-SB3C-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

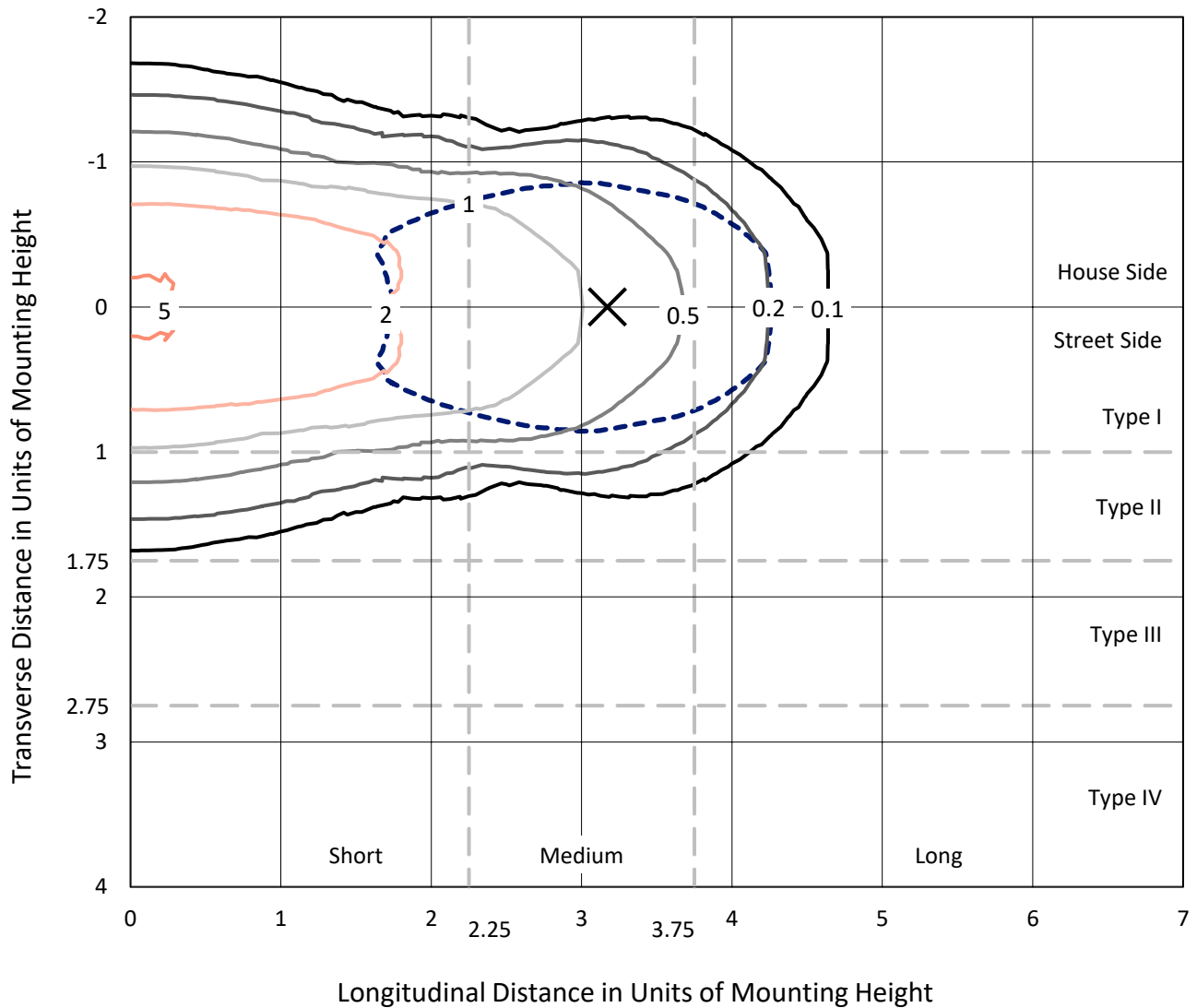
Lumens per Lamp: N/A  
Luminaire Lumens: 17708 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

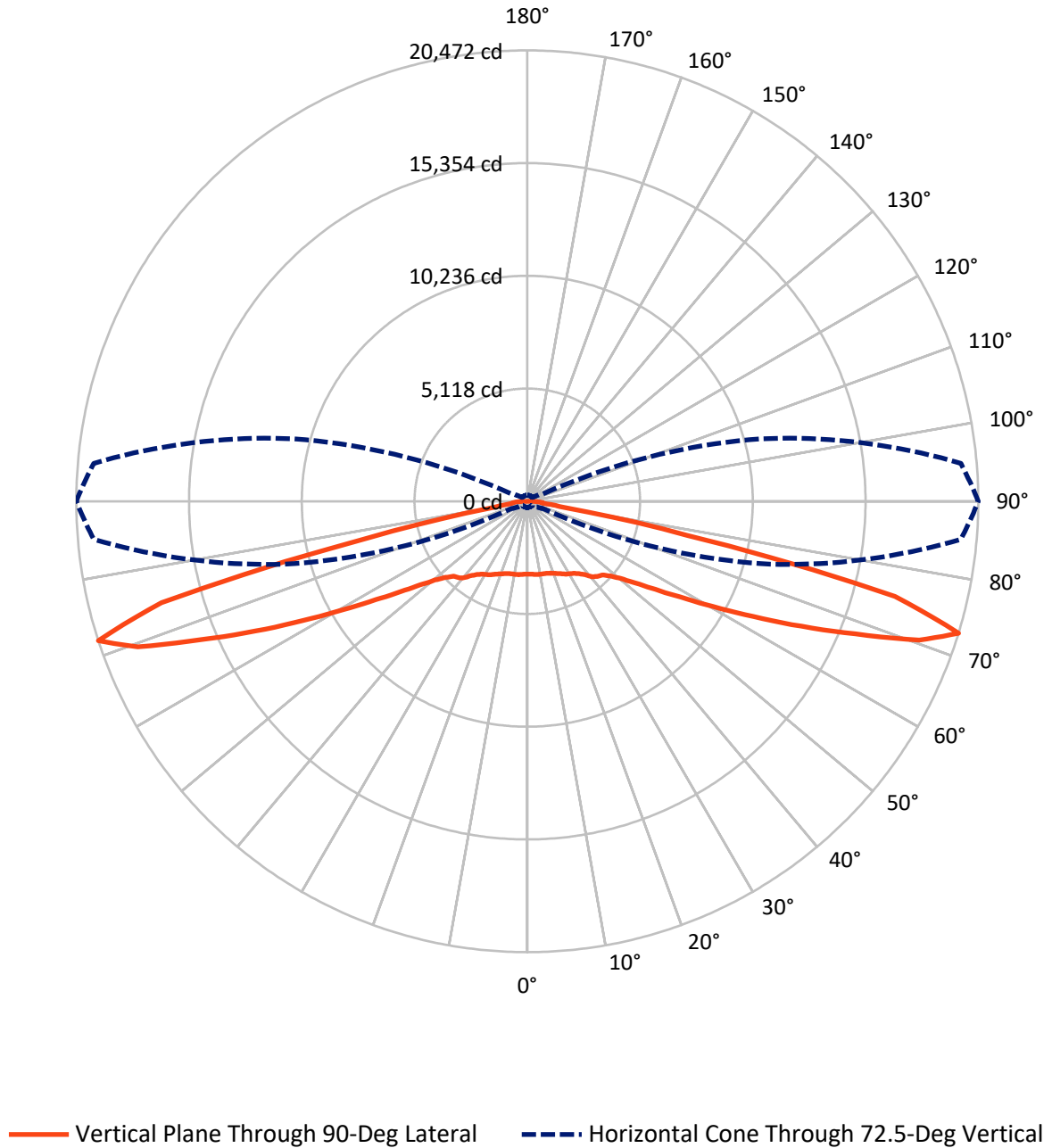
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8854.0	0.0	8854.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8854.0	0.0	8854.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17708.0	0.0	17708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.8	1.8
10°-20°	981.0	5.5
20°-30°	1635.7	9.2
30°-40°	2249.6	12.7
40°-50°	2747.4	15.5
50°-60°	3177.7	17.9
60°-70°	3788.9	21.4
70°-80°	2644.4	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°	17708.0	100.0
0°-180°	17708.0	100.0

**Coefficient of Utilization**



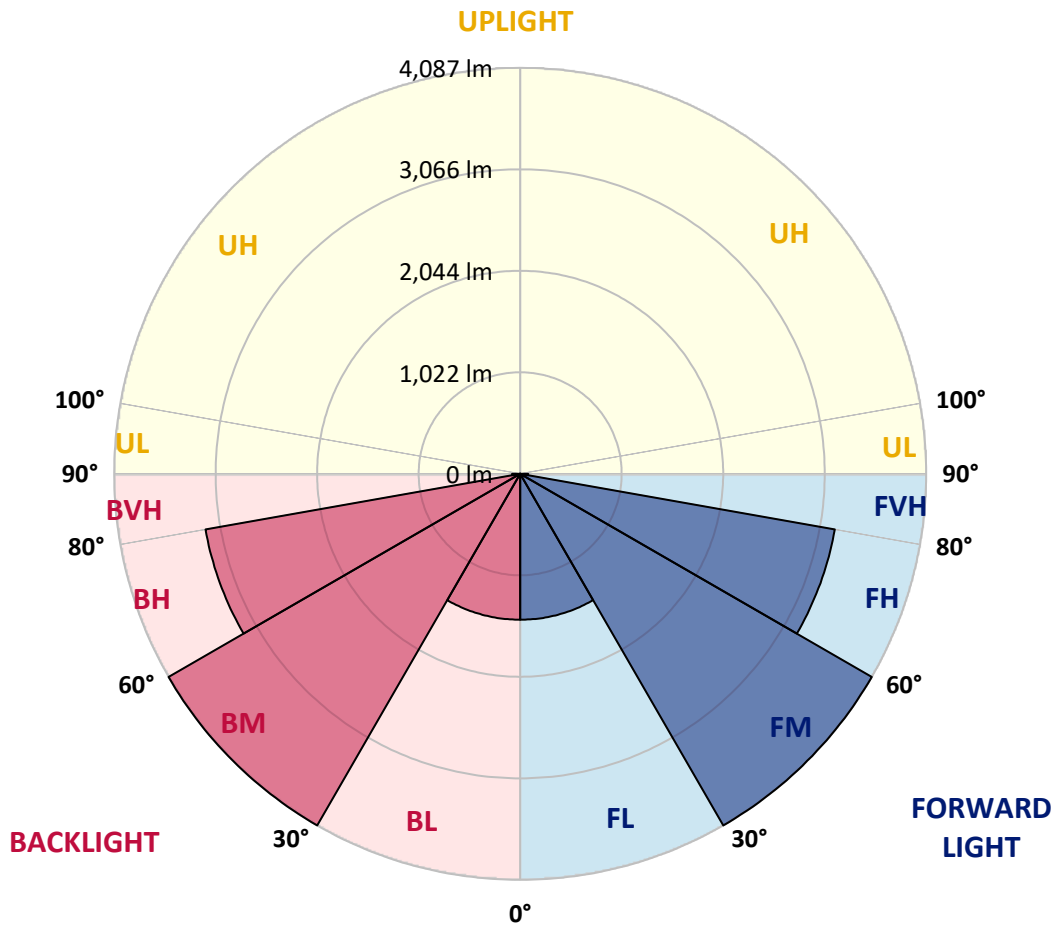
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.8	8.3			
FM (30°-60°)	4087.4	23.1			
FH (60°-80°)	3216.6	18.2			G2/5000
FVH (80°-90°)	81.2	0.5			G1/100
BL (0°-30°)	1468.8	8.3	B3/2500		
BM (30°-60°)	4087.4	23.1	B3/5000		
BH (60°-80°)	3216.6	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°	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9	3308.9
2.5°	3311.8	3315.5	3315.5	3312.7	3319.3	3313.6	3313.6	3310.8	3313.6	3310.8	3310.8
5°	3328.7	3333.4	3335.3	3334.3	3342.8	3338.1	3338.1	3334.3	3335.3	3332.5	3332.5
7.5°	3360.7	3367.3	3371.0	3375.7	3388.0	3382.3	3378.6	3367.3	3362.6	3355.0	3355.0
10°	3371.0	3378.6	3390.8	3415.3	3443.5	3444.4	3433.2	3404.9	3383.3	3366.3	3363.5
12.5°	3339.0	3349.4	3374.8	3424.7	3487.7	3513.1	3495.3	3448.2	3405.9	3375.7	3371.0
15°	3298.6	3309.9	3348.5	3423.7	3516.9	3576.2	3574.3	3512.2	3444.4	3397.4	3389.9
17.5°	3235.5	3246.8	3302.3	3407.7	3539.5	3637.4	3663.7	3599.7	3504.7	3441.6	3431.3
20°	3121.6	3132.0	3209.2	3356.9	3547.0	3702.3	3771.0	3714.5	3596.0	3510.3	3494.3
22.5°	2973.9	2989.9	3080.2	3269.4	3529.1	3770.1	3893.4	3854.8	3702.3	3583.7	3562.1
25°	2815.8	2832.7	2938.1	3162.1	3483.0	3819.0	4038.3	4013.8	3822.8	3675.0	3644.9
27.5°	2679.3	2697.2	2812.0	3055.8	3411.5	3837.8	4181.3	4193.6	3968.6	3775.7	3743.7
30°	2572.0	2589.0	2711.3	2970.1	3319.3	3819.0	4306.5	4391.2	4117.3	3863.2	3817.1
32.5°	2454.4	2476.0	2605.0	2865.7	3210.1	3773.8	4415.7	4604.8	4289.6	3957.3	3899.0
35°	2305.7	2325.5	2461.0	2722.6	3067.1	3701.4	4507.0	4842.0	4536.1	4100.4	4035.5
37.5°	2125.0	2143.8	2278.4	2543.8	2925.0	3599.7	4576.6	5109.3	4829.8	4306.5	4219.9
40°	1943.4	1961.3	2087.4	2344.3	2754.6	3469.9	4601.1	5370.9	5166.7	4589.8	4497.5
42.5°	1776.8	1792.8	1908.6	2147.6	2563.6	3304.2	4569.1	5598.6	5468.8	4787.4	4668.8
45°	1623.4	1637.5	1740.1	1963.1	2365.0	3102.8	4473.1	5843.3	5828.3	4928.6	4768.6
47.5°	1448.4	1462.5	1568.8	1784.3	2166.4	2866.6	4310.3	6084.2	6328.0	5248.5	5064.1
50°	1234.7	1247.0	1356.1	1578.2	1960.3	2615.3	4084.4	6273.4	6958.5	5733.2	5501.7
52.5°	981.6	994.7	1101.1	1323.2	1715.6	2345.2	3787.0	6396.7	7686.9	6440.9	6155.8
55°	730.3	739.7	831.9	1031.5	1412.6	2037.5	3414.3	6431.5	8513.2	7408.4	7051.7
57.5°	529.8	535.5	594.8	743.5	1071.0	1652.6	2961.7	6341.2	9496.7	8648.8	8199.9
60°	429.1	431.0	448.9	514.8	744.4	1217.8	2414.9	6030.6	10563.9	10247.7	9682.1
62.5°	389.6	389.6	394.3	412.2	503.5	803.7	1753.3	5386.9	11708.3	12268.3	11510.7
65°	362.3	362.3	364.2	372.7	397.1	512.0	1106.7	4338.5	12672.9	14635.1	13677.1
67.5°	337.9	338.8	337.9	340.7	354.8	378.3	641.8	2996.5	13192.4	17087.7	16053.4
70°	312.4	314.3	309.6	309.6	320.9	321.9	401.9	1643.2	12761.4	19143.0	18871.0
72.5°	282.3	285.2	277.6	275.7	284.2	280.4	302.1	788.6	10956.3	19756.6	20471.9
75°	256.0	259.7	242.8	238.1	238.1	235.3	245.6	404.7	7111.0	16116.4	17238.2
77.5°	232.5	240.0	212.7	197.6	193.9	185.4	200.5	247.5	3110.4	7566.5	7409.3
80°	192.0	202.3	175.0	157.2	150.6	141.2	158.1	173.2	925.1	1757.0	1682.7
82.5°	143.0	147.8	124.2	112.0	106.3	99.8	118.6	120.5	301.2	622.1	703.0
85°	91.3	93.2	76.2	65.9	63.1	60.2	75.3	65.9	114.8	457.4	664.4
87.5°	32.0	36.7	29.2	26.4	28.2	23.5	34.8	19.8	32.0	322.8	400.0
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)