

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: P964473

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
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: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18822.1 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

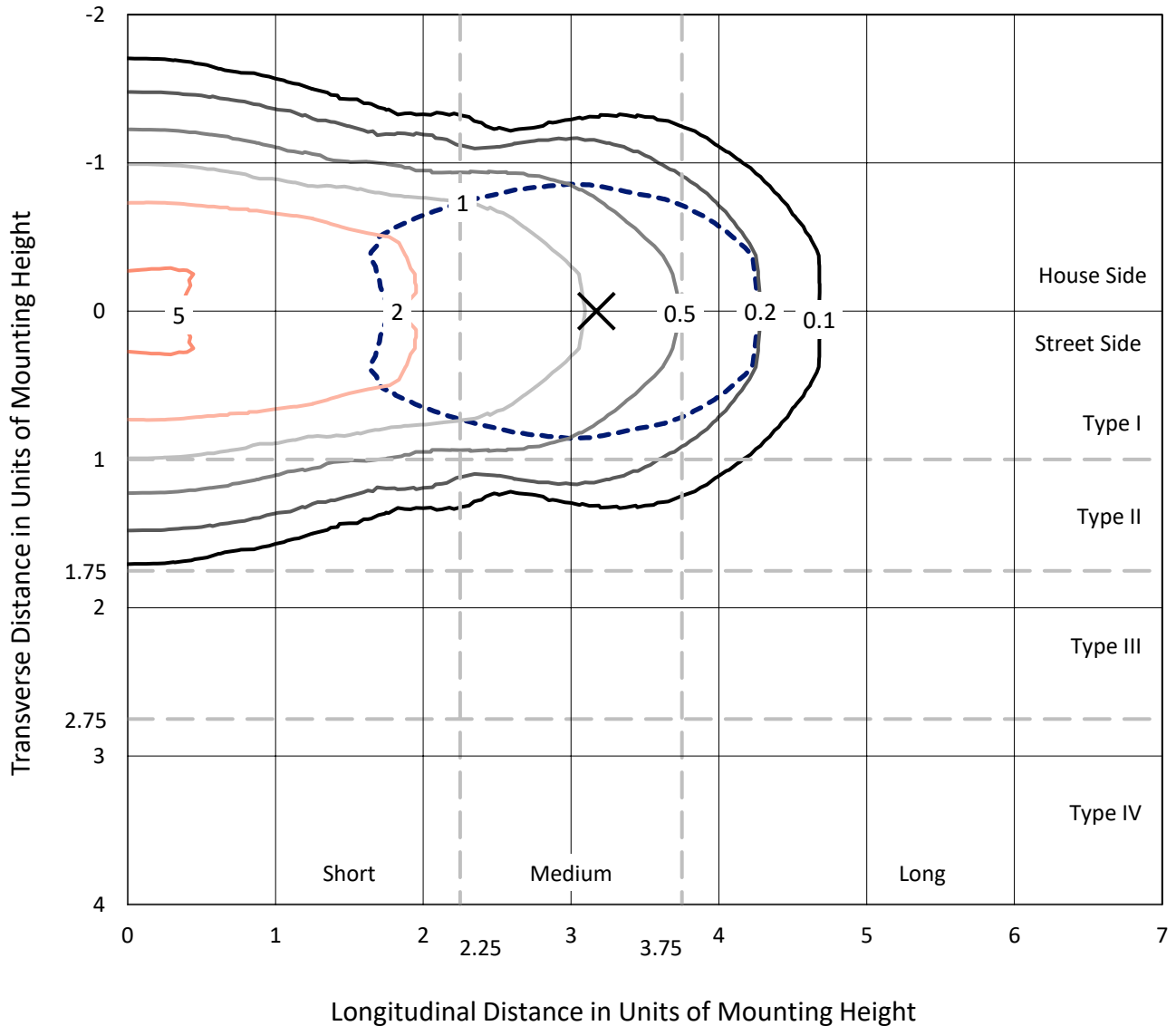
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

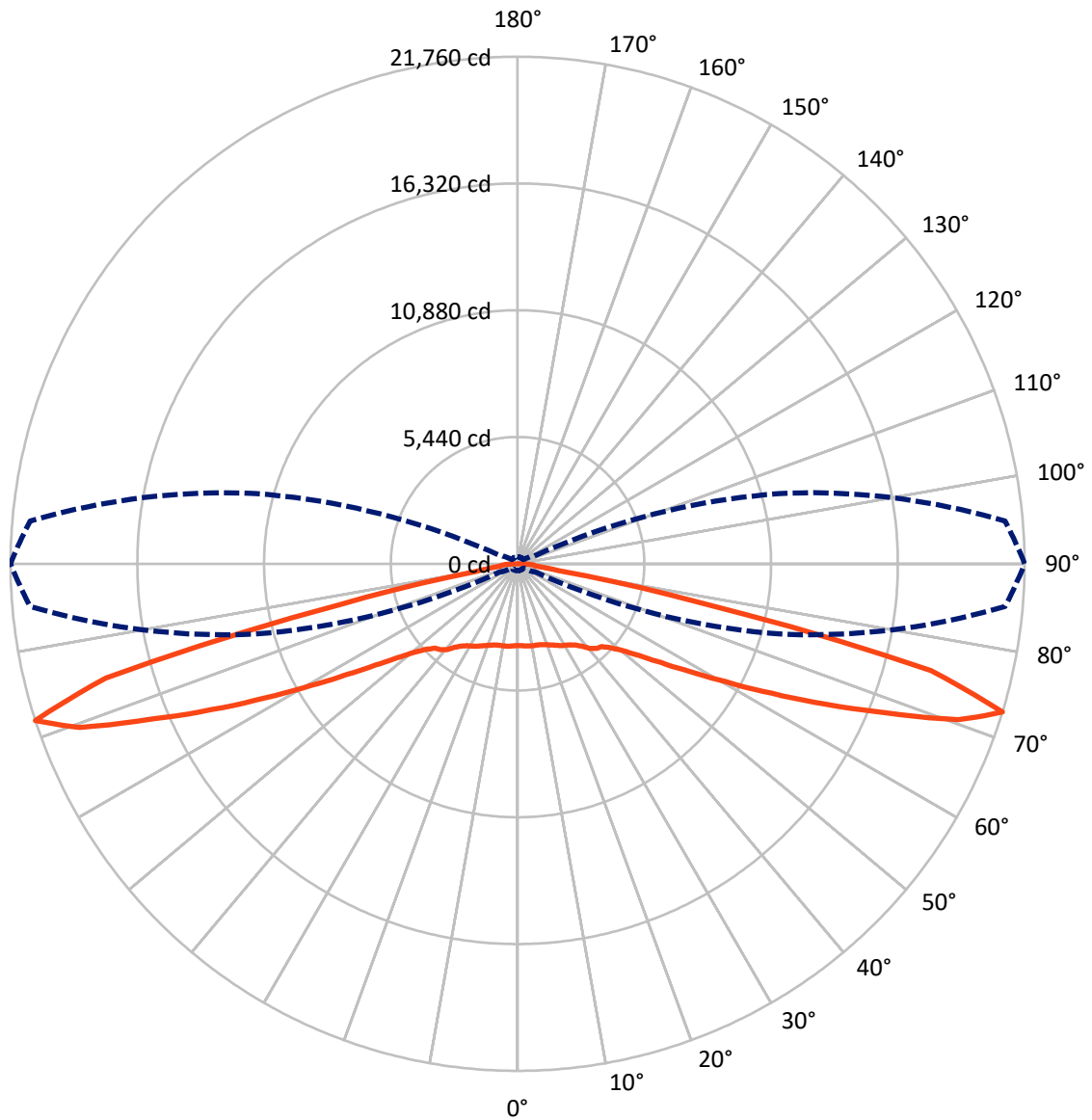
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9411.0	0.0	9411.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9411.0	0.0	9411.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18822.1	0.0	18822.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.0	1.8
10°-20°	1042.7	5.5
20°-30°	1738.6	9.2
30°-40°	2391.2	12.7
40°-50°	2920.3	15.5
50°-60°	3377.6	17.9
60°-70°	4027.2	21.4
70°-80°	2810.7	14.9
80°-90°	172.6	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°	18822.1	100.0
0°-180°	18822.1	100.0

**Coefficient of Utilization**

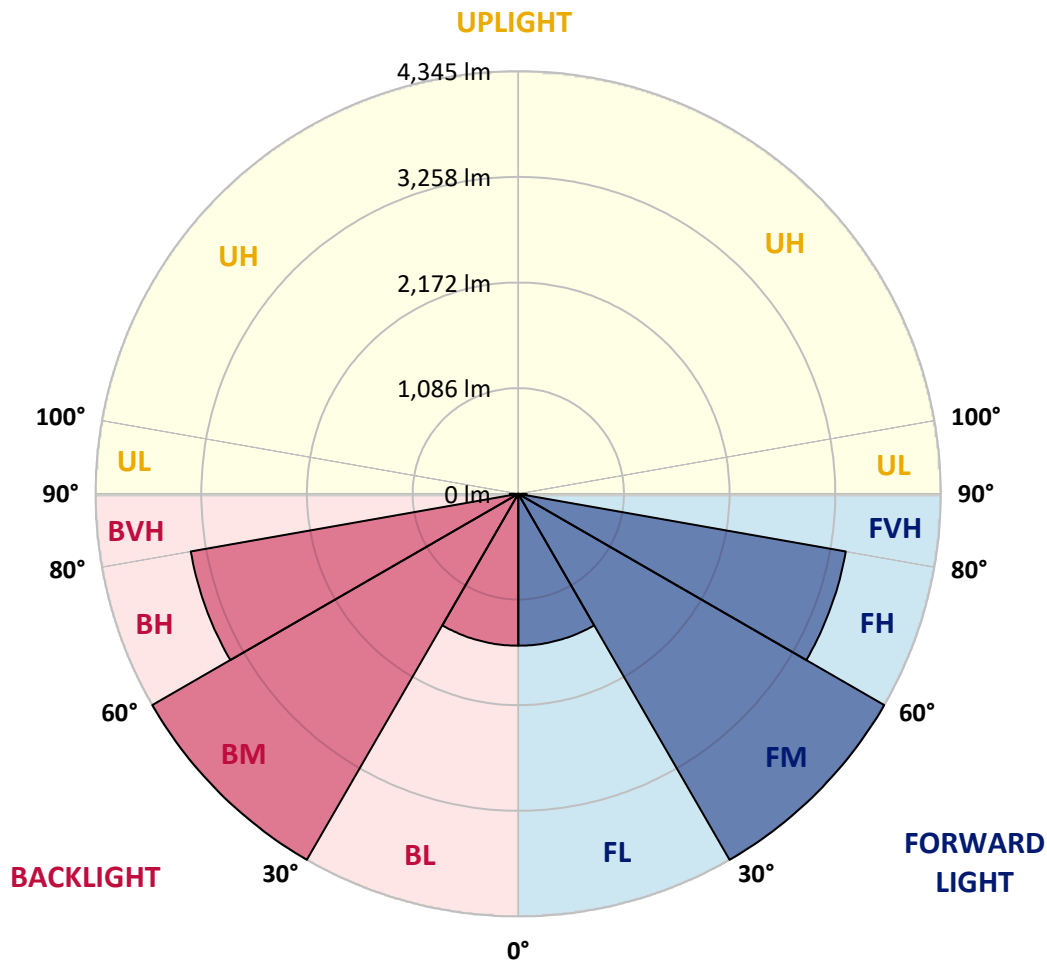


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.2	8.3			
FM (30°-60°)	4344.5	23.1			
FH (60°-80°)	3419.0	18.2			G2/5000
FVH (80°-90°)	86.3	0.5			G1/100
BL (0°-30°)	1561.2	8.3	B3/2500		
BM (30°-60°)	4344.5	23.1	B3/5000		
BH (60°-80°)	3419.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	86.3	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°	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1	3517.1
2.5°	3520.1	3524.2	3524.2	3521.1	3528.2	3522.1	3522.1	3519.1	3522.1	3519.1	3519.1
5°	3538.1	3543.1	3545.1	3544.1	3553.2	3548.1	3548.1	3544.1	3545.1	3542.1	3542.1
7.5°	3572.1	3579.1	3583.1	3588.1	3601.1	3595.1	3591.1	3579.1	3574.1	3566.1	3566.1
10°	3583.1	3591.1	3604.1	3630.1	3660.2	3661.2	3649.1	3619.2	3596.1	3578.2	3575.1
12.5°	3549.1	3560.1	3587.1	3640.2	3707.1	3734.2	3715.2	3665.2	3620.1	3588.1	3583.1
15°	3506.1	3518.1	3559.1	3639.2	3738.2	3801.2	3799.2	3733.2	3661.2	3611.2	3603.1
17.5°	3439.1	3451.1	3510.1	3622.1	3762.2	3866.2	3894.2	3826.2	3725.2	3658.1	3647.2
20°	3318.0	3329.0	3411.1	3568.1	3770.2	3935.3	4008.3	3948.2	3822.2	3731.2	3714.2
22.5°	3161.0	3178.0	3274.1	3475.1	3751.2	4007.2	4138.3	4097.3	3935.3	3809.2	3786.1
25°	2992.9	3010.9	3123.0	3361.1	3702.2	4059.3	4292.4	4266.4	4063.3	3906.3	3874.2
27.5°	2847.9	2866.9	2988.9	3248.0	3626.1	4079.3	4444.4	4457.4	4218.3	4013.3	3979.3
30°	2733.9	2751.8	2881.9	3157.0	3528.2	4059.3	4577.4	4667.4	4376.3	4106.3	4057.3
32.5°	2608.8	2631.8	2768.8	3046.0	3412.0	4011.2	4693.5	4894.6	4559.4	4206.3	4144.3
35°	2450.8	2471.8	2615.8	2893.9	3260.0	3934.3	4790.5	5146.6	4821.5	4358.4	4289.3
37.5°	2258.7	2278.7	2421.8	2703.8	3108.9	3826.2	4864.5	5430.7	5133.6	4577.4	4485.4
40°	2065.7	2084.6	2218.7	2491.8	2927.9	3688.2	4890.6	5708.8	5491.7	4878.5	4780.5
42.5°	1888.6	1905.6	2028.7	2282.7	2724.9	3512.1	4856.6	5950.8	5812.8	5088.6	4962.5
45°	1725.6	1740.6	1849.6	2086.7	2513.8	3298.0	4754.5	6211.0	6194.9	5238.7	5068.6
47.5°	1539.4	1554.5	1667.6	1896.6	2302.8	3046.9	4581.4	6467.0	6726.2	5578.8	5382.7
50°	1312.4	1325.4	1441.5	1677.5	2083.6	2779.9	4341.4	6668.1	7396.3	6093.9	5847.8
52.5°	1043.3	1057.3	1170.3	1406.4	1823.6	2492.8	4025.3	6799.1	8170.6	6846.2	6543.1
55°	776.2	786.3	884.3	1096.3	1501.4	2165.7	3629.1	6836.1	9048.8	7874.5	7495.3
57.5°	563.1	569.2	632.2	790.3	1138.4	1756.5	3148.0	6740.1	10094.2	9192.9	8715.8
60°	456.1	458.2	477.1	547.1	791.2	1294.4	2566.8	6410.0	11228.6	10892.4	10291.2
62.5°	414.1	414.1	419.1	438.2	535.2	854.2	1863.6	5725.8	12444.9	13040.0	12234.8
65°	385.1	385.1	387.1	396.2	422.1	544.2	1176.4	4611.5	13470.2	15555.9	14537.6
67.5°	359.2	360.1	359.2	362.1	377.1	402.1	682.2	3185.0	14022.4	18162.7	17063.4
70°	332.1	334.2	329.1	329.1	341.1	342.1	427.1	1746.5	13564.2	20347.4	20058.3
72.5°	300.1	303.1	295.1	293.0	302.1	298.1	321.1	838.2	11645.6	20999.6	21759.8
75°	272.0	276.1	258.1	253.1	253.1	250.1	261.1	430.1	7558.4	17130.4	18322.8
77.5°	247.1	255.1	226.1	210.0	206.0	197.1	213.1	263.1	3306.0	8042.6	7875.5
80°	204.1	215.0	186.0	167.1	160.0	150.1	168.1	184.1	983.3	1867.5	1788.5
82.5°	152.0	157.0	132.0	119.0	113.1	106.0	126.1	128.0	320.1	661.2	747.2
85°	97.1	99.0	81.0	70.0	67.0	64.1	80.1	70.0	122.1	486.2	706.2
87.5°	34.0	39.1	31.1	28.0	30.0	25.0	37.0	21.0	34.0	343.1	425.2
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)