

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: P967635

Luminaire Tested: **NAV-SB5A-722-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967635  
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-SB5A-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18980.9 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

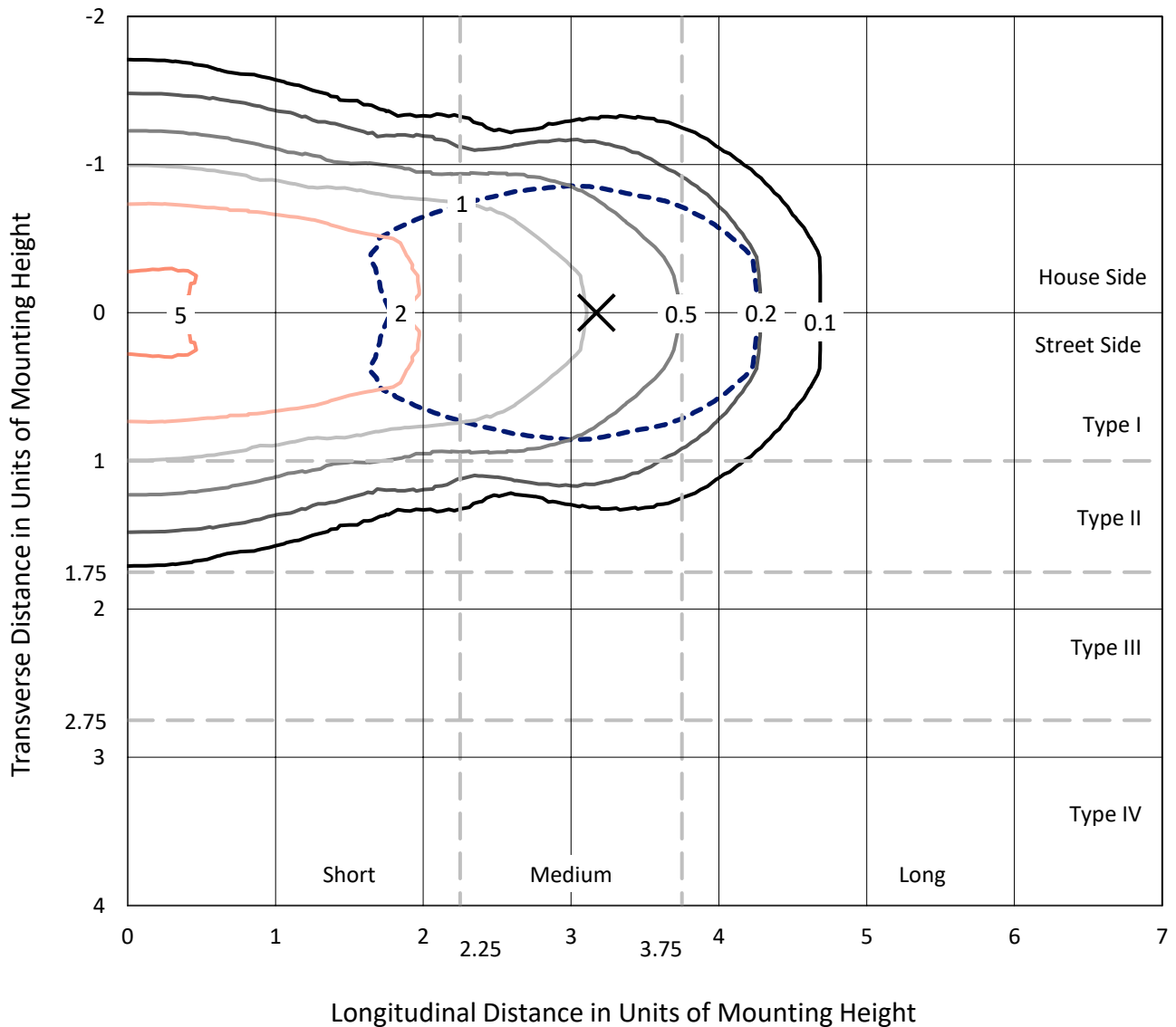
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P967635  
 CATALOG NUMBER: NAV-SB5A-722-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

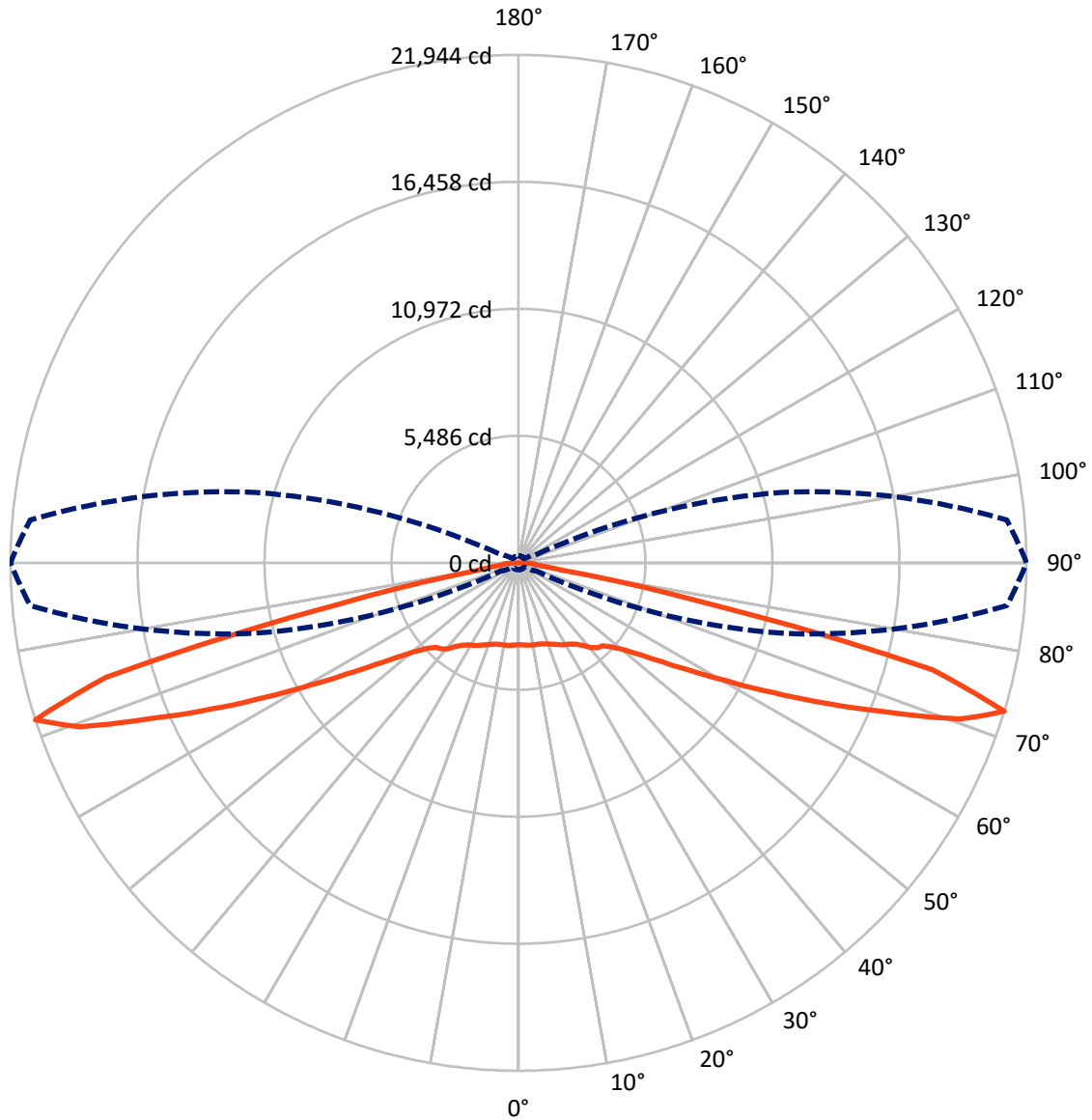
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P967635  
CATALOG NUMBER: NAV-SB5A-722-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P967635  
 CATALOG NUMBER: NAV-SB5A-722-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9490.5	0.0	9490.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9490.5	0.0	9490.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18980.9	0.0	18980.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.9	1.8
10°-20°	1051.5	5.5
20°-30°	1753.3	9.2
30°-40°	2411.4	12.7
40°-50°	2944.9	15.5
50°-60°	3406.1	17.9
60°-70°	4061.2	21.4
70°-80°	2834.5	14.9
80°-90°	174.1	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°	18980.9	100.0
0°-180°	18980.9	100.0

**Coefficient of Utilization**

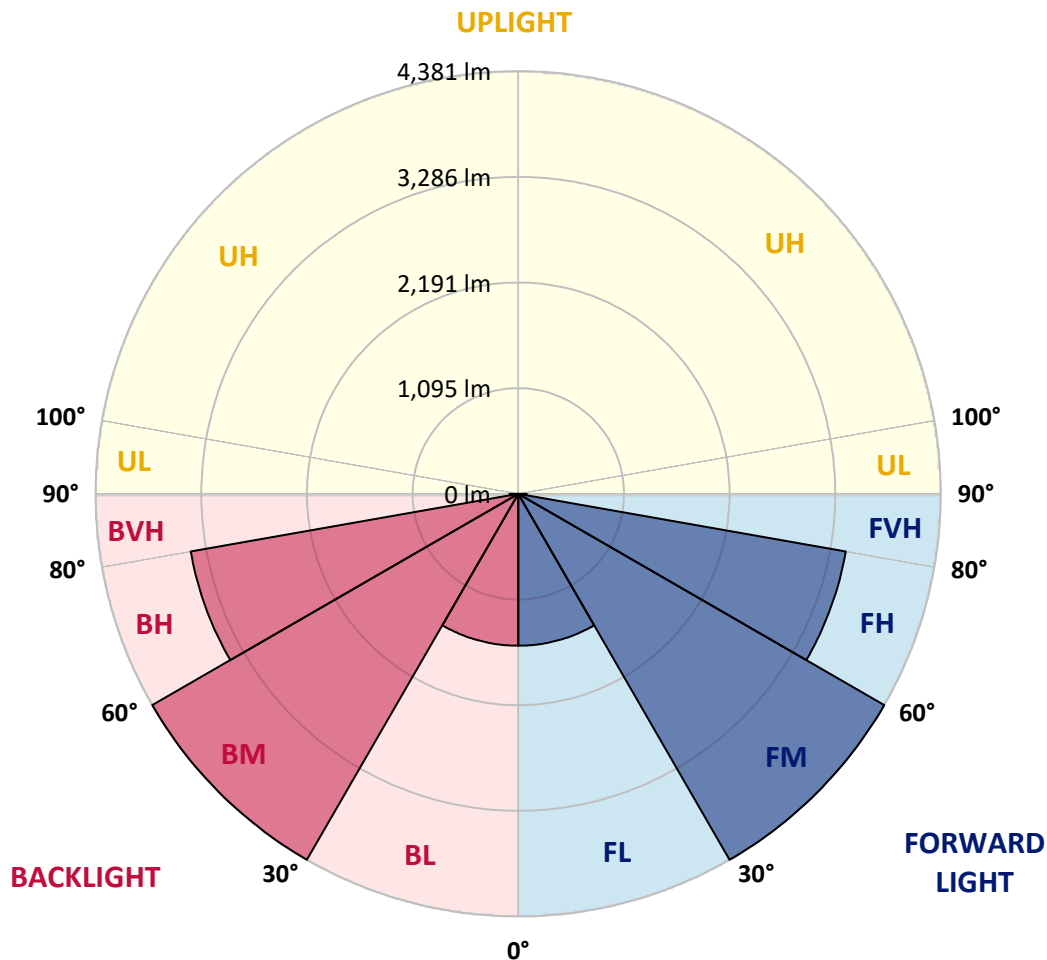


REPORT NUMBER: P967635  
 CATALOG NUMBER: NAV-SB5A-722-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.4	8.3			
FM (30°-60°)	4381.2	23.1			
FH (60°-80°)	3447.9	18.2			G2/5000
FVH (80°-90°)	87.0	0.5			G1/100
BL (0°-30°)	1574.4	8.3	B3/2500		
BM (30°-60°)	4381.2	23.1	B3/5000		
BH (60°-80°)	3447.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	87.0	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



REPORT NUMBER: P967635  
 CATALOG NUMBER: NAV-SB5A-722-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8
2.5°	3549.8	3553.9	3553.9	3550.8	3557.9	3551.8	3551.8	3548.9	3551.8	3548.9	3548.9
5°	3568.0	3573.0	3575.0	3574.1	3583.1	3578.1	3578.1	3574.1	3575.0	3572.0	3572.0
7.5°	3602.3	3609.3	3613.3	3618.5	3631.6	3625.4	3621.4	3609.3	3604.3	3596.2	3596.2
10°	3613.3	3621.4	3634.5	3660.8	3691.0	3692.0	3680.0	3649.7	3626.4	3608.3	3605.3
12.5°	3579.1	3590.2	3617.4	3670.8	3738.5	3765.6	3746.5	3696.0	3650.7	3618.5	3613.3
15°	3535.7	3547.8	3589.1	3669.9	3769.7	3833.3	3831.2	3764.7	3692.0	3641.6	3633.5
17.5°	3468.1	3480.2	3539.7	3652.7	3793.9	3898.9	3927.1	3858.5	3756.6	3689.0	3677.9
20°	3346.0	3357.2	3439.9	3598.3	3802.0	3968.5	4042.1	3981.6	3854.5	3762.7	3745.6
22.5°	3187.6	3204.9	3301.6	3504.4	3782.9	4041.1	4173.2	4131.9	3968.5	3841.4	3818.1
25°	3018.2	3036.4	3149.3	3389.5	3733.5	4093.5	4328.6	4302.3	4097.5	3939.2	3906.9
27.5°	2871.9	2891.1	3014.2	3275.4	3656.8	4113.7	4481.9	4495.0	4254.0	4047.1	4012.9
30°	2756.9	2775.1	2906.2	3183.6	3557.9	4093.5	4616.1	4706.9	4413.3	4141.0	4091.5
32.5°	2630.9	2654.0	2792.2	3071.6	3440.8	4045.2	4733.0	4935.9	4597.9	4241.9	4179.2
35°	2471.5	2492.6	2637.9	2918.4	3287.6	3967.5	4830.9	5190.1	4862.2	4395.2	4325.6
37.5°	2277.8	2297.9	2442.2	2726.7	3135.2	3858.5	4905.5	5476.6	5177.0	4616.1	4523.2
40°	2083.1	2102.3	2237.5	2512.8	2952.6	3719.3	4931.8	5757.0	5538.1	4919.7	4820.9
42.5°	1904.6	1921.7	2045.8	2301.9	2747.8	3541.8	4897.6	6001.1	5861.9	5131.6	5004.5
45°	1740.1	1755.2	1865.2	2104.2	2535.0	3325.9	4794.6	6263.4	6247.3	5282.8	5111.4
47.5°	1552.5	1567.6	1681.6	1912.6	2322.1	3072.6	4620.1	6521.7	6782.8	5625.8	5428.1
50°	1323.5	1336.6	1453.7	1691.7	2101.2	2803.4	4378.0	6724.4	7458.7	6145.4	5897.2
52.5°	1052.2	1066.3	1180.3	1418.3	1839.0	2513.8	4059.2	6856.5	8239.6	6903.9	6598.2
55°	782.8	792.8	891.7	1105.6	1514.1	2184.0	3659.8	6893.8	9125.3	7941.0	7558.7
57.5°	568.0	574.0	637.6	796.9	1148.0	1771.4	3174.5	6797.0	10179.4	9270.5	8789.3
60°	460.0	462.0	481.1	551.8	798.0	1305.3	2588.4	6464.2	11323.3	10984.3	10378.1
62.5°	417.6	417.6	422.7	441.9	539.7	861.5	1879.3	5774.1	12550.0	13150.1	12338.1
65°	388.4	388.4	390.4	399.4	425.7	548.8	1186.3	4650.3	13583.9	15687.2	14660.3
67.5°	362.1	363.2	362.1	365.2	380.3	405.5	688.0	3211.8	14140.8	18316.0	17207.4
70°	334.9	336.9	331.9	331.9	344.0	345.0	430.7	1761.3	13678.7	20519.2	20227.6
72.5°	302.6	305.7	297.6	295.6	304.6	300.6	323.8	845.3	11743.9	21176.8	21943.5
75°	274.4	278.4	260.2	255.2	255.2	252.2	263.3	433.8	7622.2	17274.9	18477.4
77.5°	249.2	257.3	228.0	211.9	207.8	198.7	214.8	265.3	3333.9	8110.4	7941.9
80°	205.8	216.9	187.7	168.5	161.4	151.3	169.4	185.6	991.6	1883.3	1803.7
82.5°	153.3	158.4	133.1	120.0	114.0	106.9	127.1	129.1	322.8	666.8	753.6
85°	97.9	99.8	81.7	70.6	67.5	64.6	80.7	70.6	123.1	490.3	712.2
87.5°	34.3	39.4	31.3	28.3	30.2	25.2	37.3	21.2	34.3	346.0	428.8
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)