

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: P969216

Luminaire Tested: **NAV-SB5D-722-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969216  
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-SB5D-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43058.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

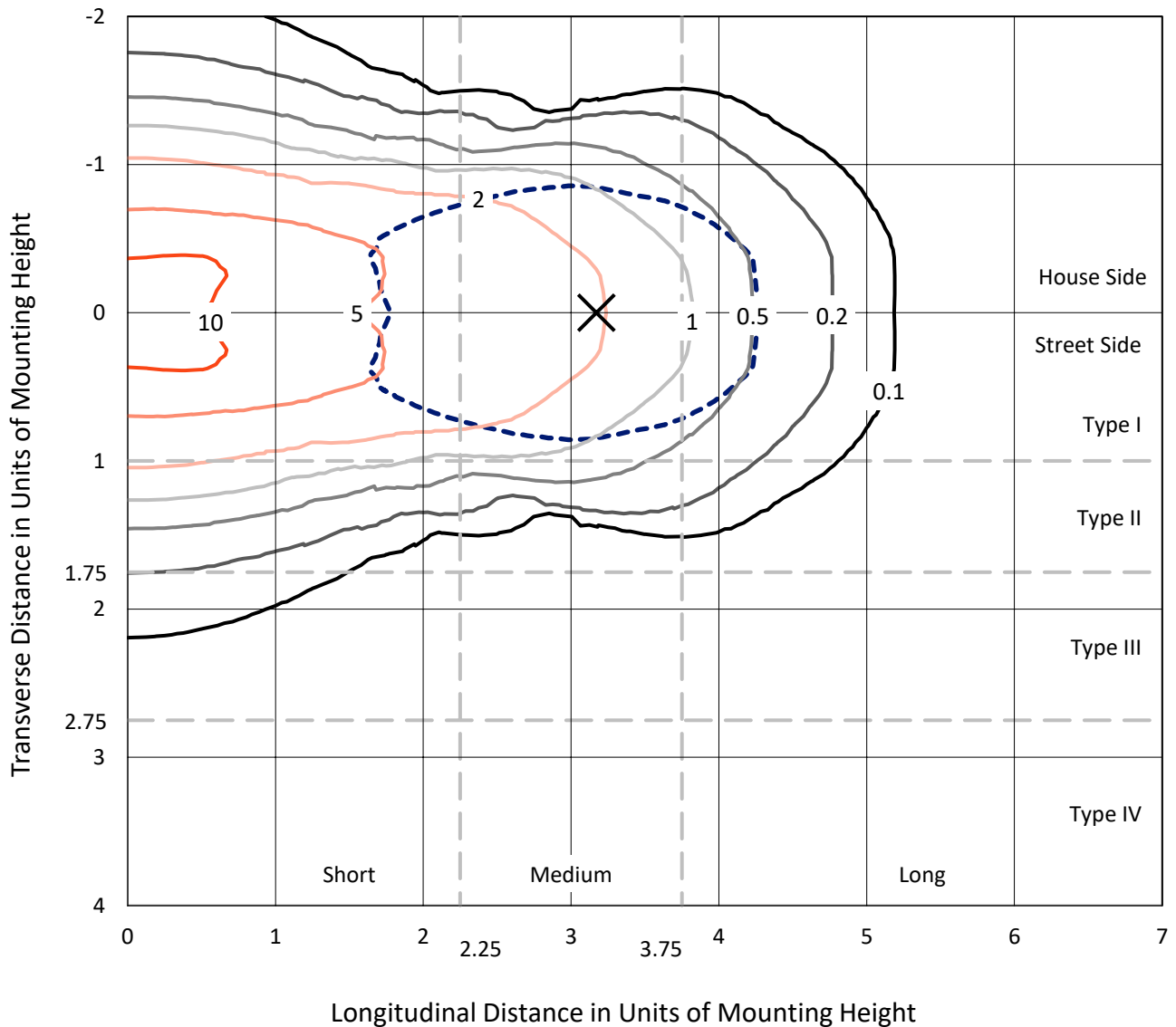
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

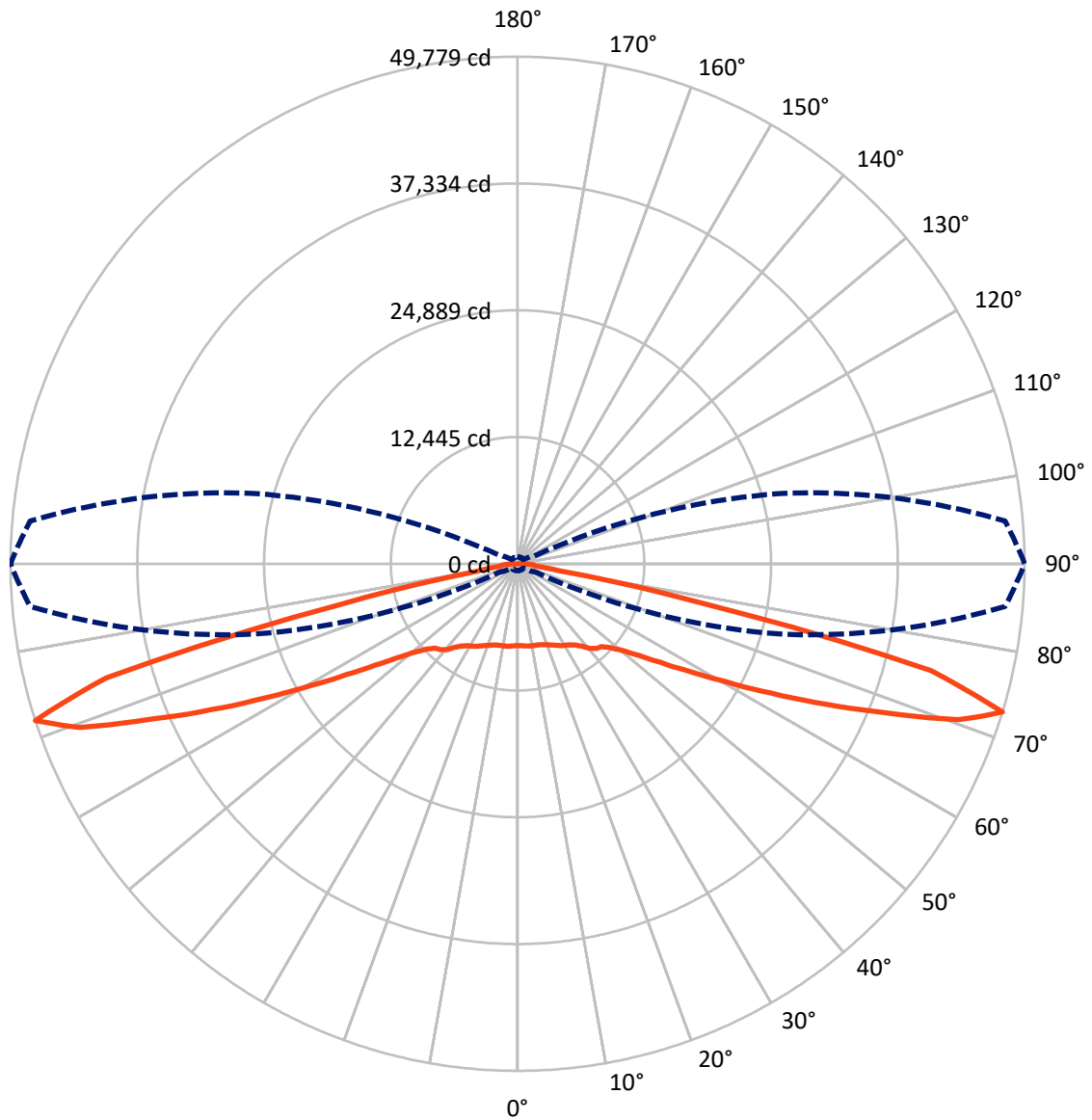
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	21529.1	0.0	21529.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21529.1	0.0	21529.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43058.2	0.0	43058.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	780.1	1.8
10°-20°	2385.4	5.5
20°-30°	3977.4	9.2
30°-40°	5470.2	12.7
40°-50°	6680.5	15.5
50°-60°	7726.8	17.9
60°-70°	9212.9	21.4
70°-80°	6430.0	14.9
80°-90°	394.9	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°	43058.2	100.0
0°-180°	43058.2	100.0

**Coefficient of Utilization**

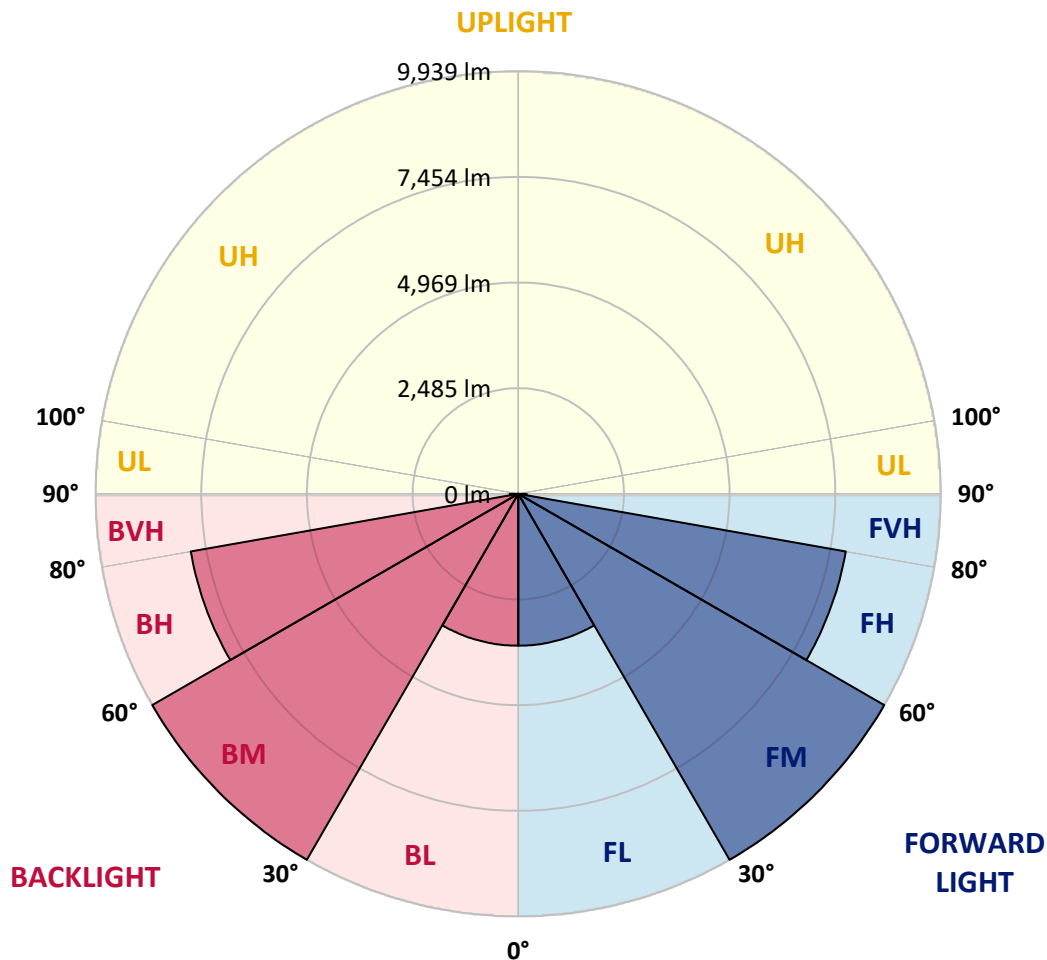


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	8.3			
FM (30°-60°)	9938.7	23.1			
FH (60°-80°)	7821.4	18.2			G4/12000
FVH (80°-90°)	197.5	0.5			G2/225
BL (0°-30°)	3571.5	8.3	B4/5000		
BM (30°-60°)	9938.7	23.1	B5		
BH (60°-80°)	7821.4	18.2	B5		G5
BVH (80°-90°)	197.5	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°	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8	8045.8
2.5°	8052.7	8061.9	8061.9	8055.1	8071.1	8057.3	8057.3	8050.5	8057.3	8050.5	8050.5
5°	8093.9	8105.4	8109.9	8107.6	8128.2	8116.8	8116.8	8107.6	8109.9	8103.1	8103.1
7.5°	8171.7	8187.8	8196.9	8208.3	8238.1	8224.4	8215.2	8187.8	8176.3	8158.0	8158.0
10°	8196.9	8215.2	8245.0	8304.4	8373.1	8375.4	8347.9	8279.3	8226.6	8185.4	8178.6
12.5°	8119.1	8144.2	8206.0	8327.3	8480.6	8542.5	8499.0	8384.6	8281.6	8208.3	8196.9
15°	8020.7	8048.2	8142.0	8325.0	8551.6	8695.8	8691.2	8540.2	8375.4	8261.0	8242.6
17.5°	7867.4	7894.9	8029.8	8286.2	8606.5	8844.5	8908.6	8753.0	8521.8	8368.5	8343.4
20°	7590.5	7615.6	7803.3	8162.6	8624.9	9002.4	9169.4	9032.2	8743.9	8535.6	8496.7
22.5°	7231.3	7270.1	7489.8	7949.8	8581.4	9167.2	9467.0	9373.1	9002.4	8714.0	8661.5
25°	6846.8	6888.0	7144.2	7688.9	8469.3	9286.2	9819.4	9759.8	9295.3	8936.1	8862.9
27.5°	6515.0	6558.5	6837.7	7430.3	8295.3	9331.9	10167.2	10196.9	9650.1	9180.9	9103.1
30°	6254.1	6295.2	6592.8	7222.0	8071.1	9286.2	10471.5	10677.5	10011.6	9393.7	9281.6
32.5°	5968.1	6020.6	6334.2	6968.1	7805.6	9176.3	10737.0	11197.0	10430.4	9622.6	9480.6
35°	5606.4	5654.5	5984.1	6620.3	7457.8	9000.1	10959.0	11773.7	11029.9	9970.4	9812.5
37.5°	5167.1	5212.8	5540.1	6185.5	7112.3	8753.0	11128.3	12423.5	11743.8	10471.5	10261.0
40°	4725.5	4768.9	5075.6	5700.3	6698.1	8437.2	11187.8	13059.7	12563.1	11160.3	10936.0
42.5°	4320.5	4359.3	4640.8	5222.1	6233.5	8034.5	11110.0	13613.4	13297.6	11640.9	11352.6
45°	3947.4	3981.7	4231.2	4773.5	5750.7	7544.7	10876.6	14208.4	14171.9	11984.2	11595.1
47.5°	3521.8	3556.1	3814.7	4338.7	5267.8	6970.3	10480.7	14794.2	15387.0	12762.2	12313.6
50°	3002.3	3032.1	3297.5	3837.6	4766.7	6359.4	9931.5	15254.3	16920.2	13940.7	13377.8
52.5°	2386.7	2418.8	2677.4	3217.5	4171.6	5702.6	9208.4	15554.0	18691.4	15661.6	14968.2
55°	1775.8	1798.7	2022.9	2508.1	3434.9	4954.3	8302.2	15638.6	20700.5	18014.0	17146.7
57.5°	1288.3	1302.1	1446.3	1807.8	2604.1	4018.4	7201.4	15419.0	23091.8	21030.0	19938.5
60°	1043.4	1048.1	1091.5	1251.7	1810.0	2961.1	5871.9	14663.9	25686.8	24918.0	23542.7
62.5°	947.4	947.4	958.8	1002.3	1224.3	1954.3	4263.2	13098.6	28469.5	29831.1	27989.0
65°	881.0	881.0	885.6	906.2	965.7	1244.9	2691.1	10549.3	30815.1	35586.4	33256.7
67.5°	821.5	823.8	821.5	828.4	862.7	919.9	1560.7	7286.1	32078.3	41549.8	39034.9
70°	759.7	764.3	752.9	752.9	780.3	782.6	977.1	3995.4	31030.1	46547.6	45886.2
72.5°	686.5	693.4	675.1	670.5	691.1	681.9	734.5	1917.7	26641.1	48039.6	49778.7
75°	622.5	631.6	590.4	578.9	578.9	572.1	597.3	984.0	17290.8	39188.2	41915.9
77.5°	565.2	583.5	517.2	480.5	471.4	450.8	487.4	601.9	7563.1	18398.4	18016.2
80°	466.8	492.0	425.7	382.1	366.1	343.3	384.5	421.1	2249.5	4272.4	4091.6
82.5°	347.8	359.3	302.1	272.3	258.6	242.6	288.3	292.9	732.3	1512.6	1709.4
85°	222.0	226.5	185.3	160.2	153.3	146.5	183.1	160.2	279.2	1112.1	1615.6
87.5°	77.8	89.3	70.9	64.1	68.7	57.2	84.7	48.1	77.8	784.9	972.5
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)