

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: P968147

Luminaire Tested: **NAV-SB5B-722-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5B-722-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

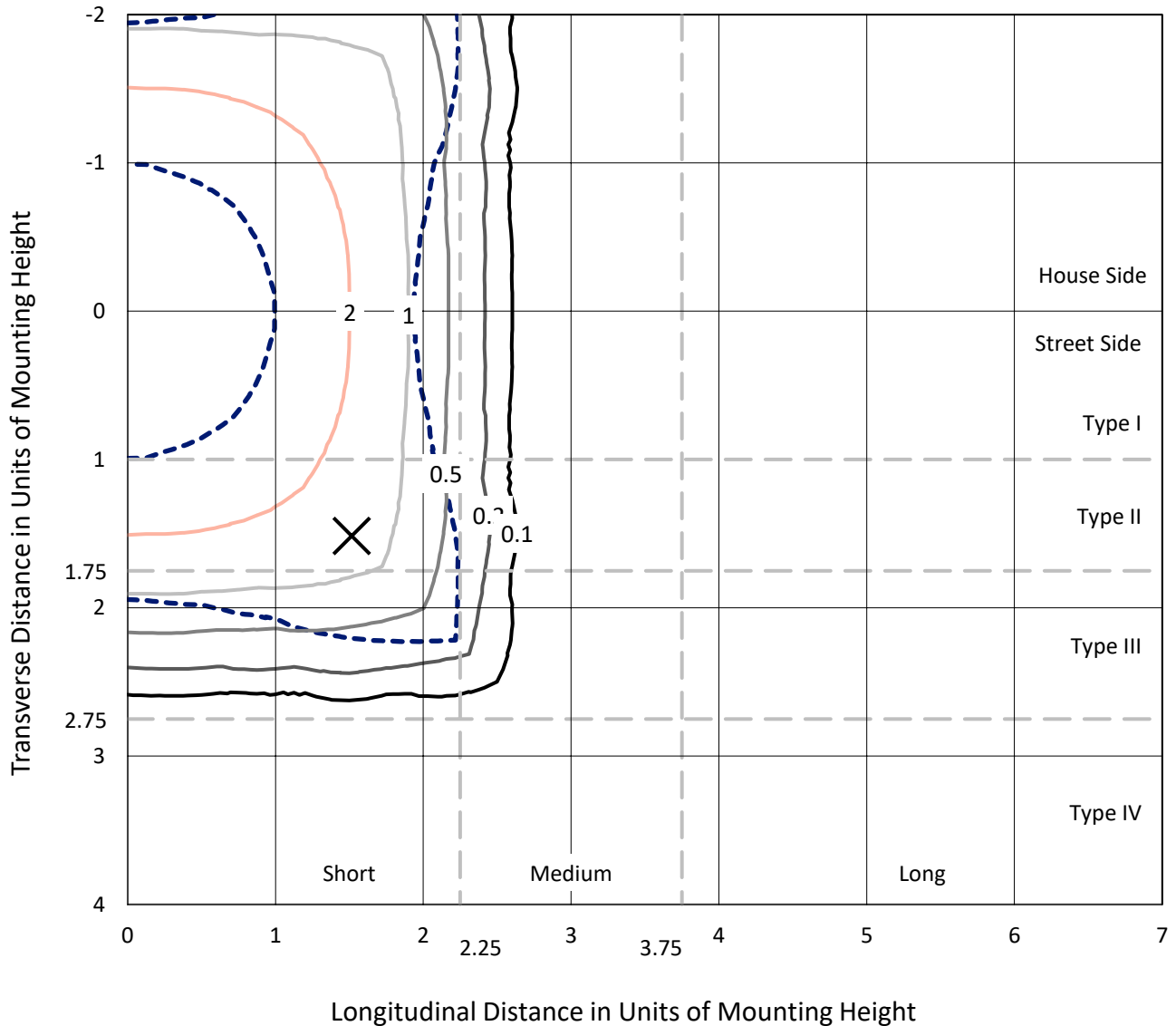
Lumens per Lamp: N/A  
Luminaire Lumens: 25238.6 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

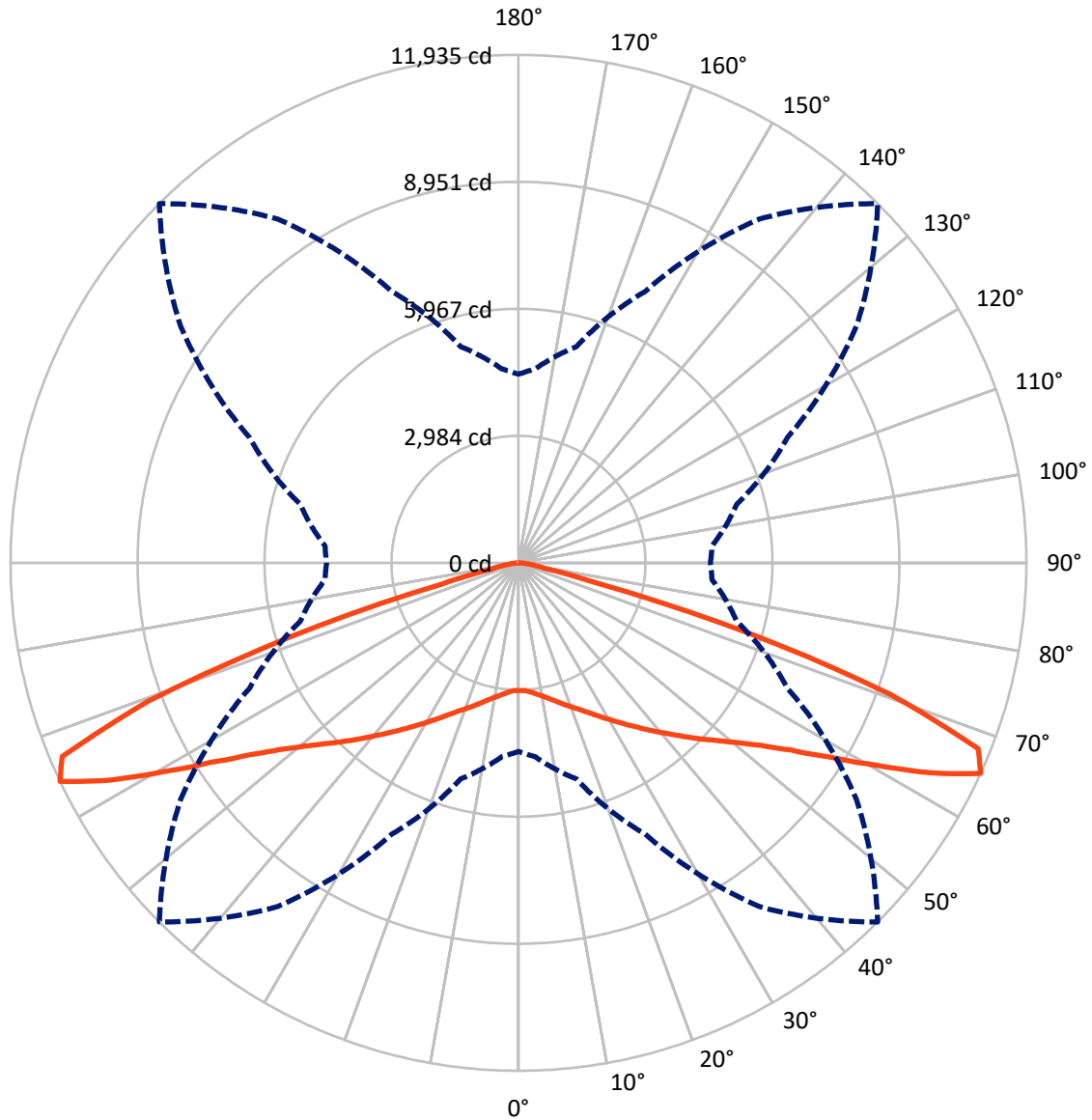
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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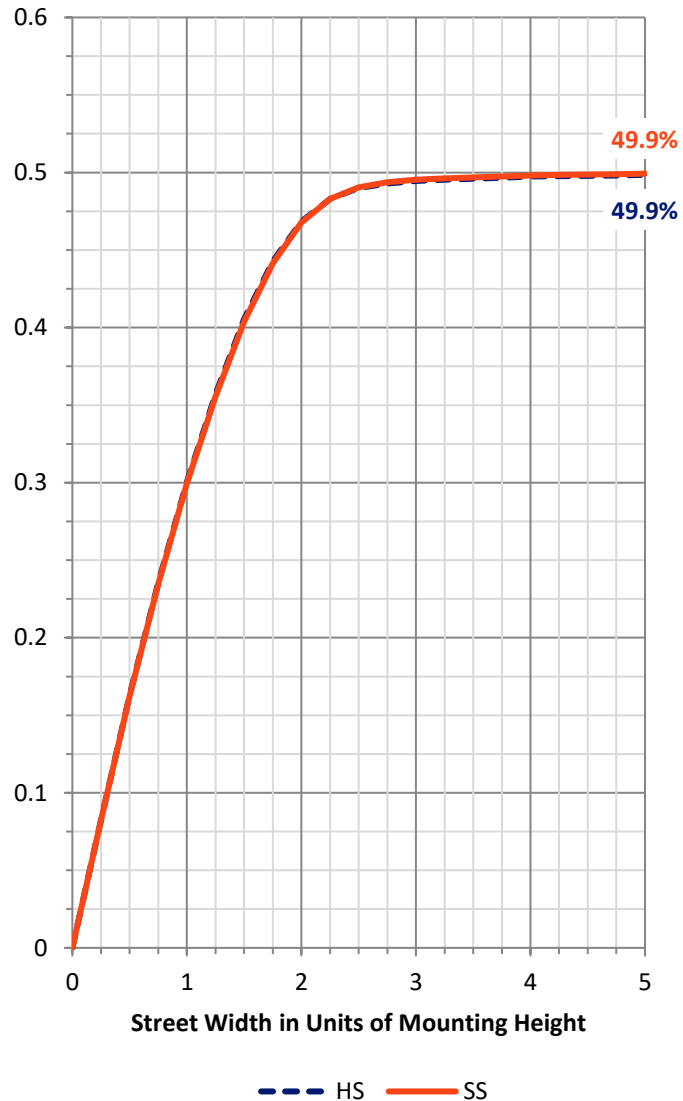
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12619.3	0.0	12619.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12619.3	0.0	12619.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25238.6	0.0	25238.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	1.2
10°-20°	967.3	3.8
20°-30°	1826.3	7.2
30°-40°	2990.5	11.8
40°-50°	4636.9	18.4
50°-60°	6849.6	27.1
60°-70°	6520.2	25.8
70°-80°	1052.1	4.2
80°-90°	99.2	0.4
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°	25238.6	100.0
0°-180°	25238.6	100.0

**Coefficient of Utilization**



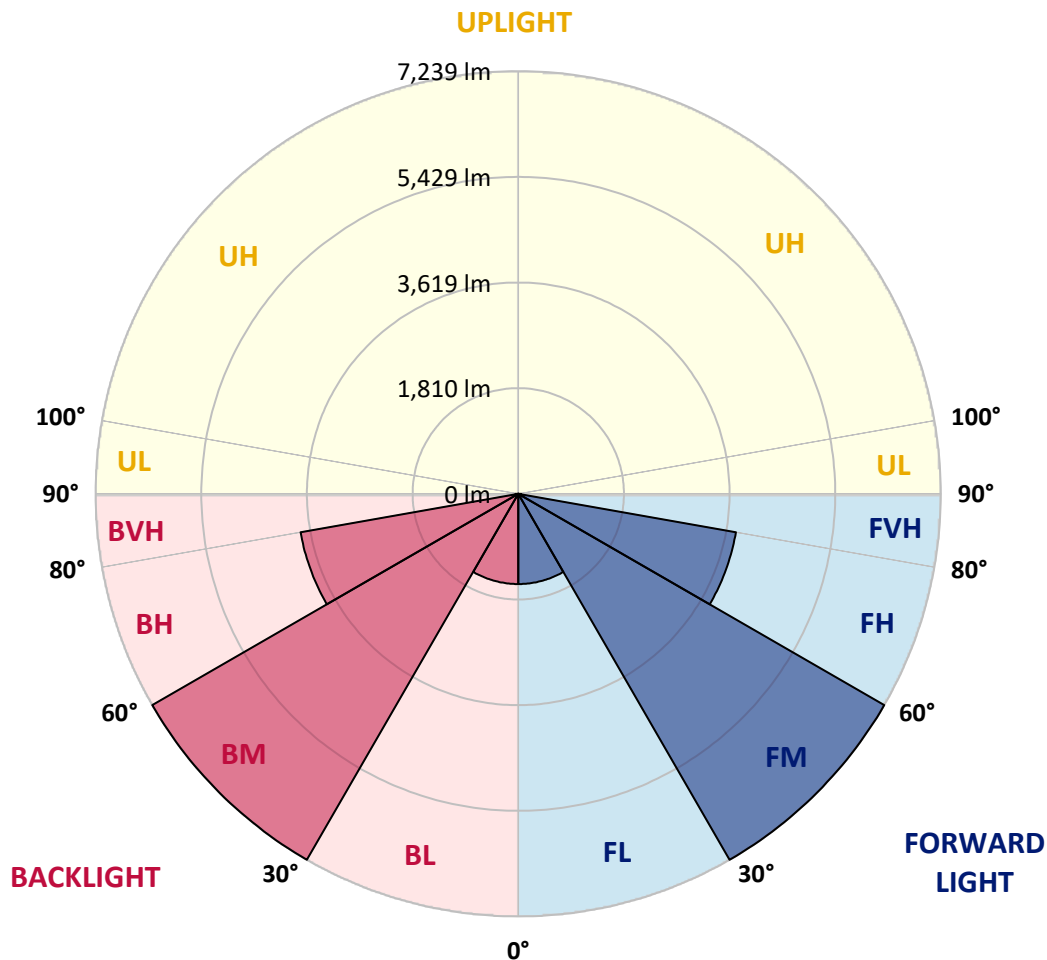
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.0	6.1			
FM (30°-60°)	7238.5	28.7			
FH (60°-80°)	3786.2	15.0			G2/5000
FVH (80°-90°)	49.6	0.2			G1/100
BL (0°-30°)	1545.0	6.1	B3/2500		
BM (30°-60°)	7238.5	28.7	B4/8500		
BH (60°-80°)	3786.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	49.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7	3003.7
2.5°	3023.9	3013.8	3021.4	3015.0	3010.0	3004.9	3007.5	3016.3	3020.1	3021.4	3021.4
5°	3064.4	3055.5	3059.3	3059.3	3050.5	3047.9	3049.3	3055.5	3063.1	3063.1	3063.1
7.5°	3130.2	3121.4	3130.2	3125.2	3117.6	3115.1	3113.8	3118.9	3130.2	3130.2	3126.5
10°	3210.1	3199.9	3205.0	3202.4	3193.6	3189.8	3188.6	3196.2	3206.2	3205.0	3202.4
12.5°	3297.4	3286.0	3292.4	3284.7	3282.3	3278.5	3278.5	3277.1	3283.5	3278.5	3280.9
15°	3394.9	3387.3	3389.9	3384.8	3388.5	3386.1	3375.9	3370.9	3373.4	3365.8	3367.0
17.5°	3510.1	3492.5	3501.3	3498.7	3498.7	3503.9	3487.4	3481.0	3486.1	3478.5	3484.8
20°	3643.2	3625.4	3629.2	3624.1	3617.8	3622.9	3602.6	3607.7	3611.5	3606.4	3617.8
22.5°	3788.7	3766.0	3764.7	3767.2	3753.2	3754.6	3740.6	3753.2	3760.9	3747.0	3760.9
25°	3938.2	3914.1	3930.6	3924.2	3906.5	3910.3	3900.2	3912.8	3919.2	3901.5	3921.8
27.5°	4096.4	4080.0	4095.2	4099.0	4077.4	4092.6	4077.4	4088.8	4095.2	4068.6	4088.8
30°	4281.3	4264.8	4278.8	4288.9	4263.6	4287.7	4275.0	4282.6	4283.9	4252.2	4271.2
32.5°	4482.6	4457.3	4492.8	4497.9	4470.0	4499.1	4482.6	4492.8	4499.1	4456.1	4485.2
35°	4728.3	4696.7	4737.2	4730.9	4706.8	4730.9	4715.7	4730.9	4746.1	4694.2	4725.8
37.5°	4993.0	4960.1	5003.1	4991.8	4968.9	4985.4	4976.5	4986.6	5010.7	4955.0	4989.2
40°	5284.2	5243.7	5301.9	5281.7	5260.2	5257.6	5262.7	5269.0	5300.7	5238.7	5258.9
42.5°	5595.8	5552.7	5640.1	5608.4	5578.0	5557.8	5574.3	5586.9	5617.3	5547.6	5584.3
45°	5951.6	5902.2	6016.1	5978.2	5930.0	5888.2	5914.9	5933.8	5978.2	5894.6	5937.6
47.5°	6344.1	6288.4	6409.9	6398.6	6320.0	6228.9	6289.7	6344.1	6377.0	6275.8	6309.9
50°	6727.8	6684.7	6844.3	6858.3	6762.0	6634.1	6719.0	6801.3	6810.1	6677.2	6693.7
52.5°	7087.5	7044.4	7276.1	7363.5	7277.4	7125.4	7215.3	7298.9	7231.8	7059.6	7064.6
55°	7374.9	7339.4	7634.5	7859.9	7889.0	7763.7	7816.9	7814.3	7593.9	7329.3	7338.2
57.5°	7444.6	7439.4	7811.7	8289.2	8593.1	8608.3	8503.2	8234.6	7759.9	7404.0	7381.2
60°	7128.0	7159.6	7671.2	8513.2	9323.7	9660.5	9205.9	8439.8	7571.2	7077.3	7019.1
62.5°	6180.7	6264.4	6881.0	8239.8	9913.8	10871.2	9769.5	8128.4	6796.2	6151.6	6113.6
65°	4429.5	4575.1	5256.4	7031.7	9860.6	11934.8	9688.4	6974.7	5307.0	4563.7	4509.3
67.5°	2009.6	2157.7	2736.4	4814.4	8571.6	11646.0	8551.3	4865.1	2873.2	2165.3	2133.7
70°	728.2	753.5	939.6	1927.3	5478.0	9279.4	5712.2	1941.2	999.1	802.8	792.7
72.5°	440.6	444.4	483.7	690.1	1903.2	5633.7	1984.3	712.9	493.8	438.2	445.8
75°	279.8	277.4	344.4	421.7	675.0	1900.7	707.9	421.7	343.2	312.7	315.3
77.5°	201.3	207.7	246.9	315.3	425.5	644.5	417.9	301.3	246.9	202.6	206.4
80°	150.7	154.5	179.8	245.7	298.9	401.4	265.9	222.8	186.1	126.6	130.4
82.5°	108.9	108.9	117.8	178.6	182.3	216.6	144.3	157.0	122.8	89.9	89.9
85°	64.6	63.3	73.5	106.4	95.0	79.7	65.8	96.2	77.3	55.8	54.4
87.5°	22.8	24.1	22.8	30.3	25.3	21.5	20.3	26.5	21.5	19.0	17.7
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)