

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: P970255

Luminaire Tested: **NAV-SB6B-722-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970255  
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-SB6B-722-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 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: 30297.9 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

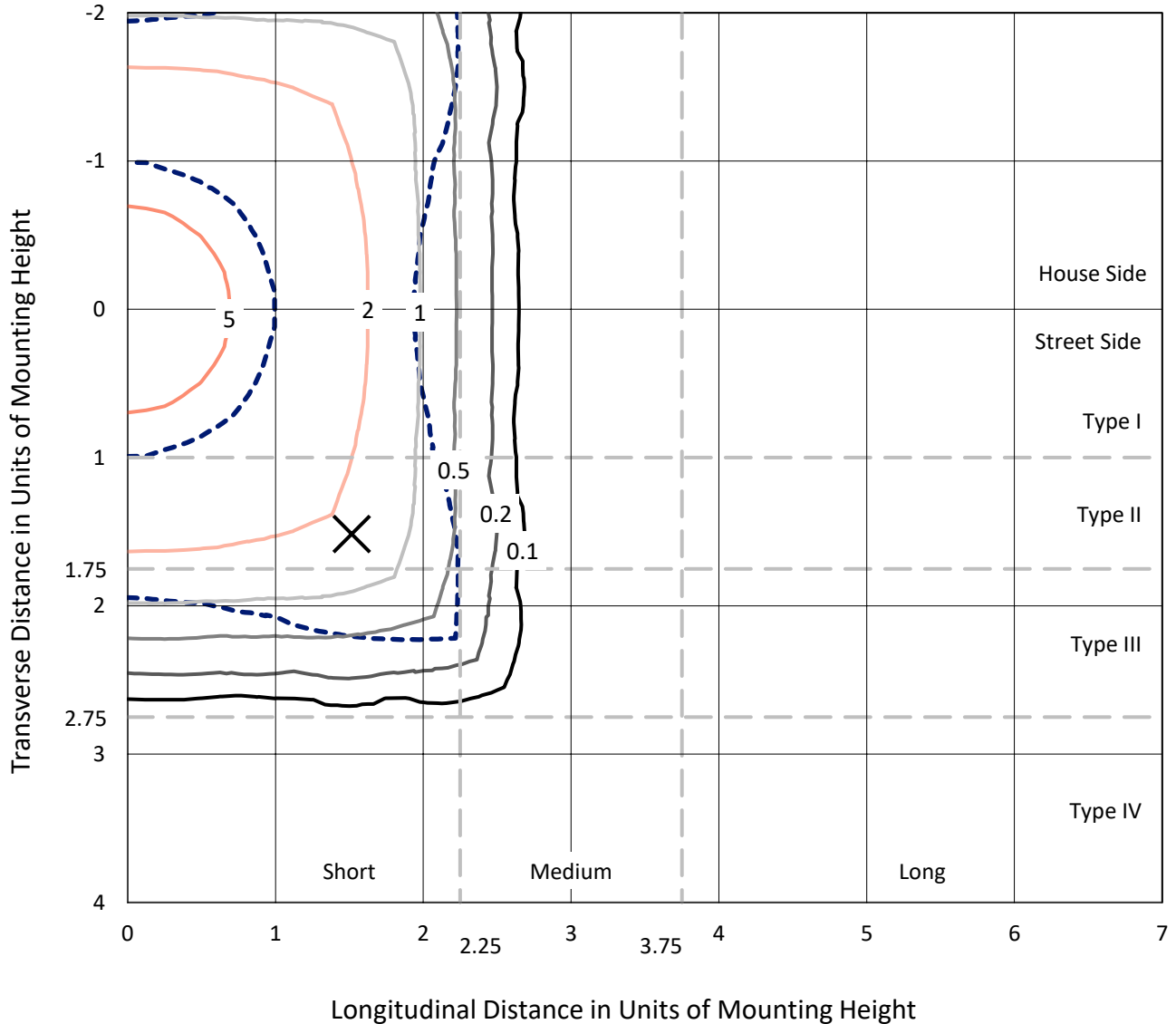
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

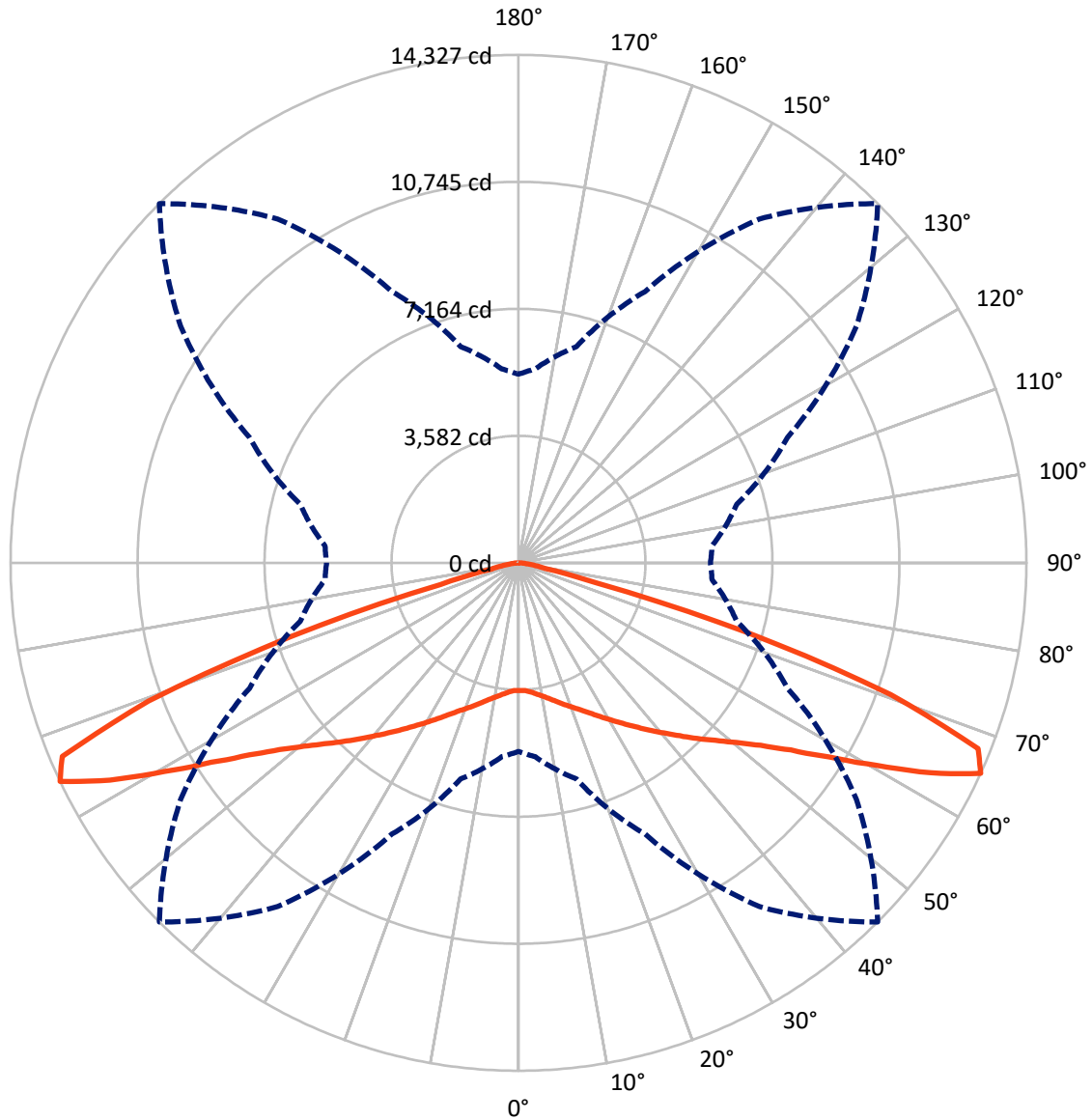
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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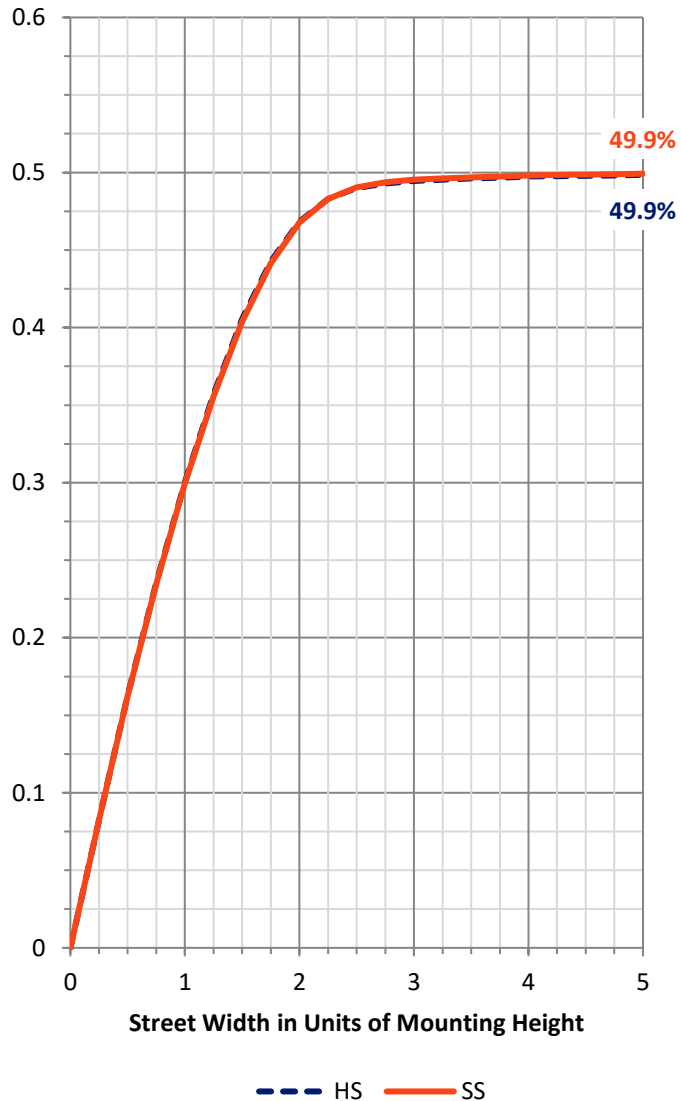
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15149.0	0.0	15149.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15149.0	0.0	15149.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30297.9	0.0	30297.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.9	1.2
10°-20°	1161.2	3.8
20°-30°	2192.4	7.2
30°-40°	3590.0	11.8
40°-50°	5566.4	18.4
50°-60°	8222.7	27.1
60°-70°	7827.3	25.8
70°-80°	1263.0	4.2
80°-90°	119.0	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°	30297.9	100.0
0°-180°	30297.9	100.0

**Coefficient of Utilization**



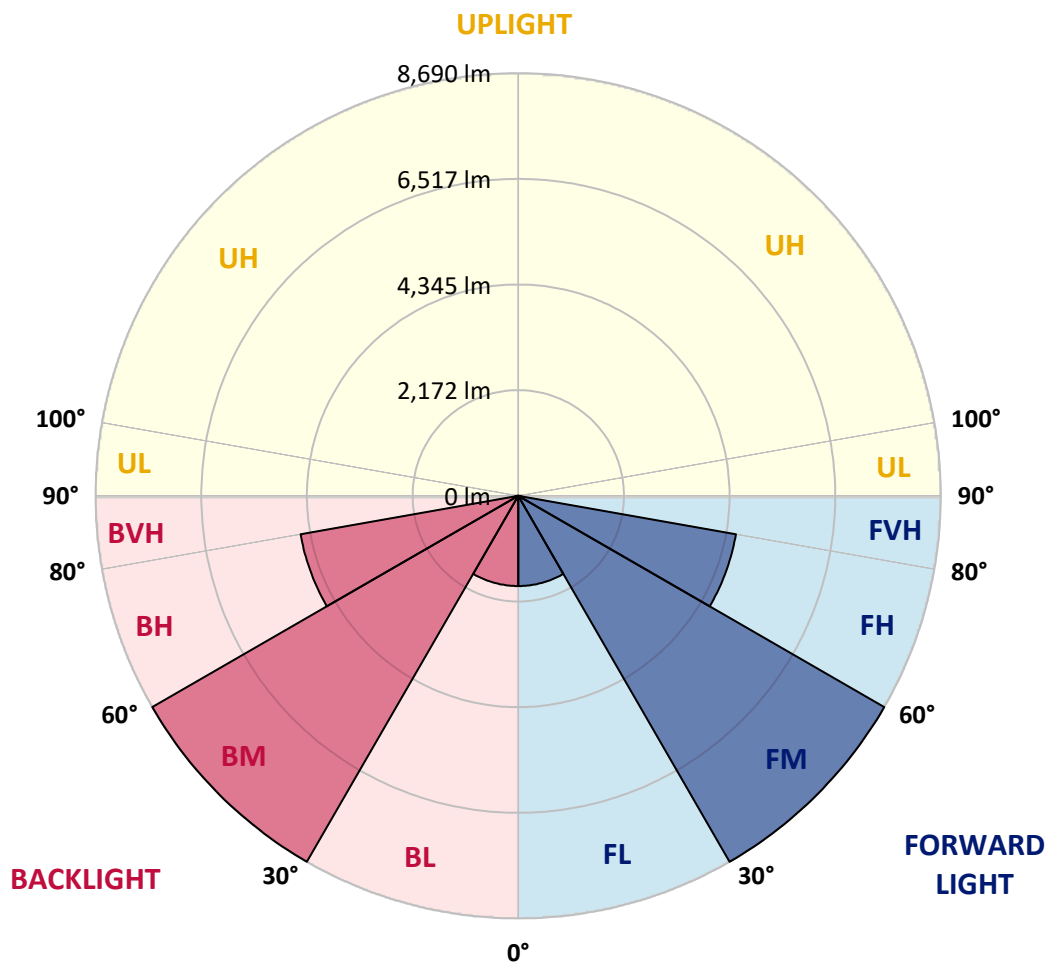
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1854.7	6.1			
FM (30°-60°)	8689.6	28.7			
FH (60°-80°)	4545.2	15.0			G2/5000
FVH (80°-90°)	59.5	0.2			G1/100
BL (0°-30°)	1854.7	6.1	B3/2500		
BM (30°-60°)	8689.6	28.7	B5		
BH (60°-80°)	4545.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	59.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7	3605.7
2.5°	3630.0	3617.9	3627.1	3619.5	3613.3	3607.3	3610.4	3620.9	3625.5	3627.1	3627.1
5°	3678.7	3668.1	3672.7	3672.7	3662.0	3658.9	3660.5	3668.1	3677.2	3677.2	3677.2
7.5°	3757.8	3747.1	3757.8	3751.7	3742.6	3739.5	3738.0	3744.1	3757.8	3757.8	3753.2
10°	3853.6	3841.4	3847.4	3844.5	3833.8	3829.2	3827.7	3836.8	3849.0	3847.4	3844.5
12.5°	3958.4	3944.7	3952.4	3943.3	3940.2	3935.6	3935.6	3934.2	3941.7	3935.6	3938.7
15°	4075.5	4066.4	4069.4	4063.3	4067.9	4064.8	4052.6	4046.6	4049.7	4040.6	4042.1
17.5°	4213.8	4192.6	4203.2	4200.1	4200.1	4206.2	4186.4	4178.8	4185.0	4175.8	4183.4
20°	4373.5	4352.2	4356.7	4350.6	4343.0	4349.1	4324.8	4330.8	4335.4	4329.4	4343.0
22.5°	4548.2	4520.9	4519.3	4522.4	4505.7	4507.2	4490.5	4505.7	4514.8	4498.1	4514.8
25°	4727.6	4698.7	4718.5	4710.9	4689.6	4694.2	4682.0	4697.3	4704.9	4683.5	4707.8
27.5°	4917.6	4897.9	4916.1	4920.7	4894.9	4913.0	4894.9	4908.5	4916.1	4884.2	4908.5
30°	5139.6	5119.8	5136.6	5148.7	5118.3	5147.1	5132.0	5141.1	5142.6	5104.6	5127.5
32.5°	5381.2	5350.9	5393.4	5399.5	5366.1	5401.0	5381.2	5393.4	5401.0	5349.4	5384.3
35°	5676.1	5638.2	5686.8	5679.2	5650.3	5679.2	5661.0	5679.2	5697.5	5635.1	5673.2
37.5°	5993.9	5954.3	6006.1	5992.4	5965.0	5984.8	5974.1	5986.3	6015.2	5948.3	5989.4
40°	6343.5	6294.8	6364.8	6340.4	6314.6	6311.6	6317.7	6325.3	6363.3	6288.8	6313.1
42.5°	6717.4	6665.8	6770.6	6732.7	6696.2	6671.8	6691.6	6706.9	6743.4	6659.7	6703.8
45°	7144.7	7085.3	7222.2	7176.5	7118.8	7068.6	7100.6	7123.3	7176.5	7076.2	7128.0
47.5°	7615.9	7549.0	7694.9	7681.2	7586.9	7477.6	7550.6	7615.9	7655.4	7533.7	7574.9
50°	8076.5	8024.8	8216.3	8233.0	8117.5	7963.9	8065.8	8164.6	8175.3	8015.7	8035.5
52.5°	8508.2	8456.6	8734.7	8839.6	8736.2	8553.8	8661.8	8762.1	8681.5	8474.8	8480.8
55°	8853.2	8810.7	9164.9	9435.4	9470.5	9319.9	9383.8	9380.8	9116.2	8798.5	8809.2
57.5°	8936.9	8930.8	9377.7	9950.8	10315.6	10333.8	10207.7	9885.4	9315.4	8888.2	8860.9
60°	8556.8	8594.8	9209.0	10219.9	11192.8	11597.2	11051.3	10131.7	9088.9	8496.0	8426.1
62.5°	7419.8	7520.1	8260.4	9891.6	11901.2	13050.4	11727.8	9757.8	8158.6	7384.8	7339.2
65°	5317.4	5492.3	6310.1	8441.3	11837.3	14327.2	11630.6	8372.9	6370.9	5478.5	5413.2
67.5°	2412.4	2590.3	3285.0	5779.6	10289.8	13980.7	10265.5	5840.3	3449.2	2599.4	2561.5
70°	874.1	904.5	1127.9	2313.6	6576.1	11139.6	6857.4	2330.3	1199.4	963.8	951.6
72.5°	529.0	533.6	580.7	828.5	2284.7	6763.1	2382.1	855.9	592.9	525.9	535.0
75°	336.0	332.9	413.5	506.2	810.3	2281.8	849.7	506.2	411.9	375.5	378.5
77.5°	241.7	249.3	296.4	378.5	510.8	773.8	501.6	361.8	296.4	243.2	247.7
80°	180.9	185.4	215.9	294.9	358.7	481.9	319.2	267.5	223.4	152.0	156.6
82.5°	130.7	130.7	141.3	214.3	218.9	259.9	173.3	188.5	147.5	107.9	107.9
85°	77.5	76.1	88.1	127.7	114.0	95.7	79.0	115.5	92.8	66.9	65.4
87.5°	27.4	28.9	27.4	36.5	30.4	25.8	24.3	31.9	25.8	22.8	21.3
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)