

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: P971308

Luminaire Tested: **NAV-SB6D-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54719.6 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

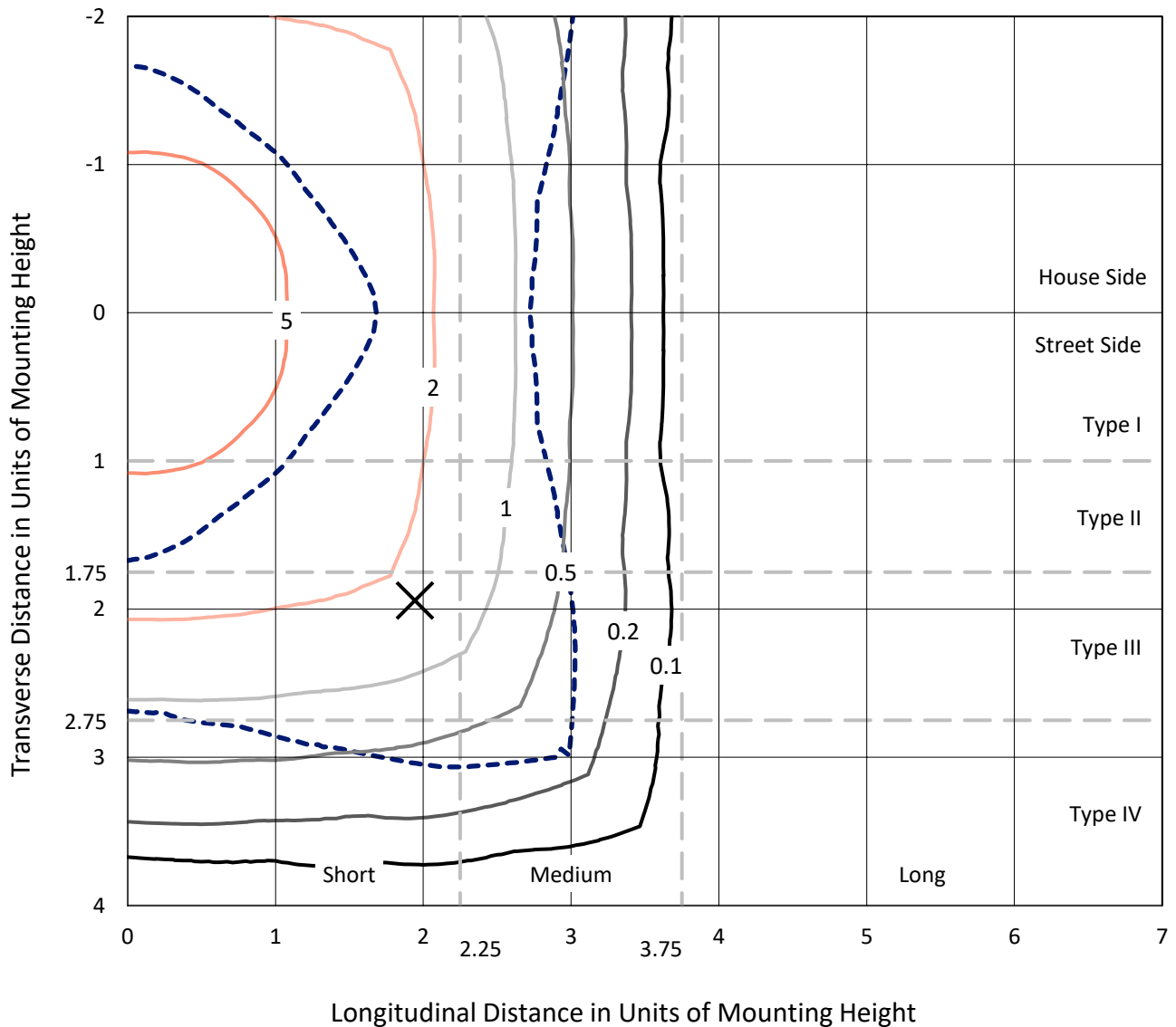
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

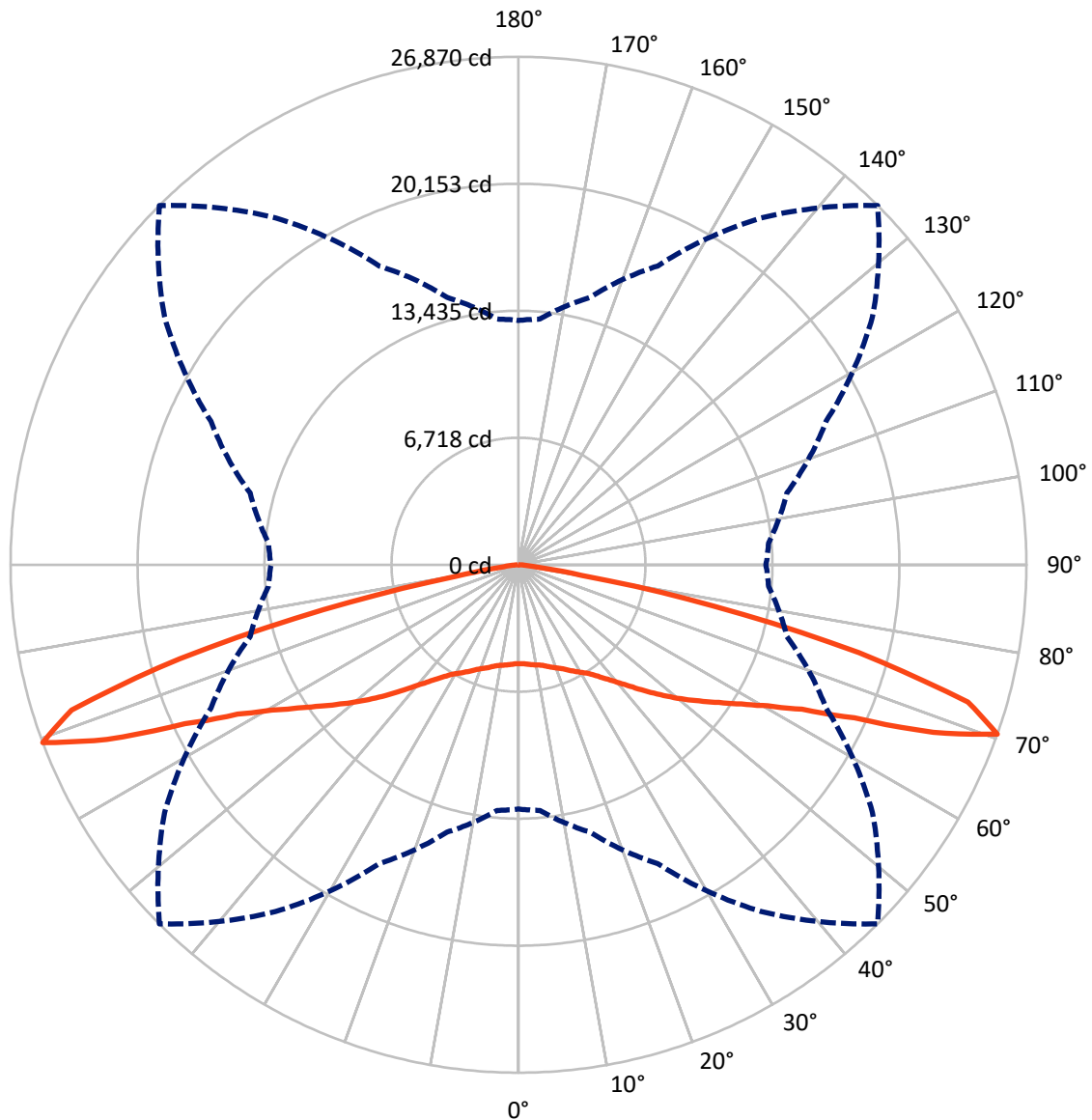
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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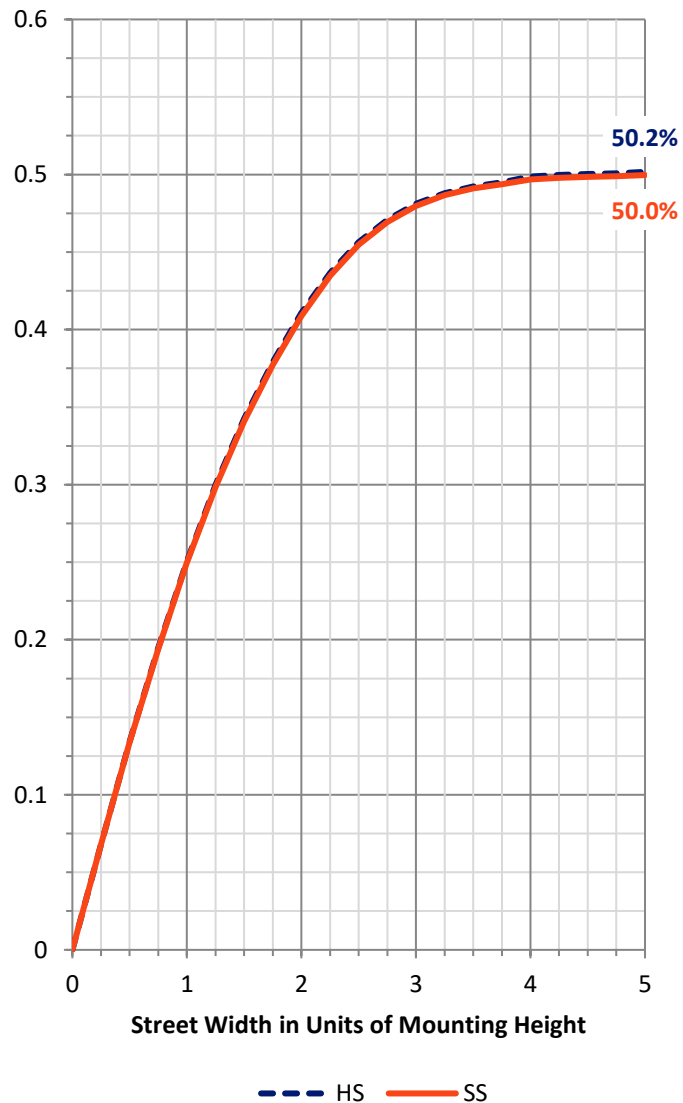
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27359.8	0.0	27359.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27359.8	0.0	27359.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	54719.6	0.0	54719.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.2	0.9
10°-20°	1579.0	2.9
20°-30°	2821.9	5.2
30°-40°	4574.3	8.4
40°-50°	7450.8	13.6
50°-60°	11359.9	20.8
60°-70°	16899.9	30.9
70°-80°	9211.0	16.8
80°-90°	313.7	0.6
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°	54719.6	100.0
0°-180°	54719.6	100.0

**Coefficient of Utilization**



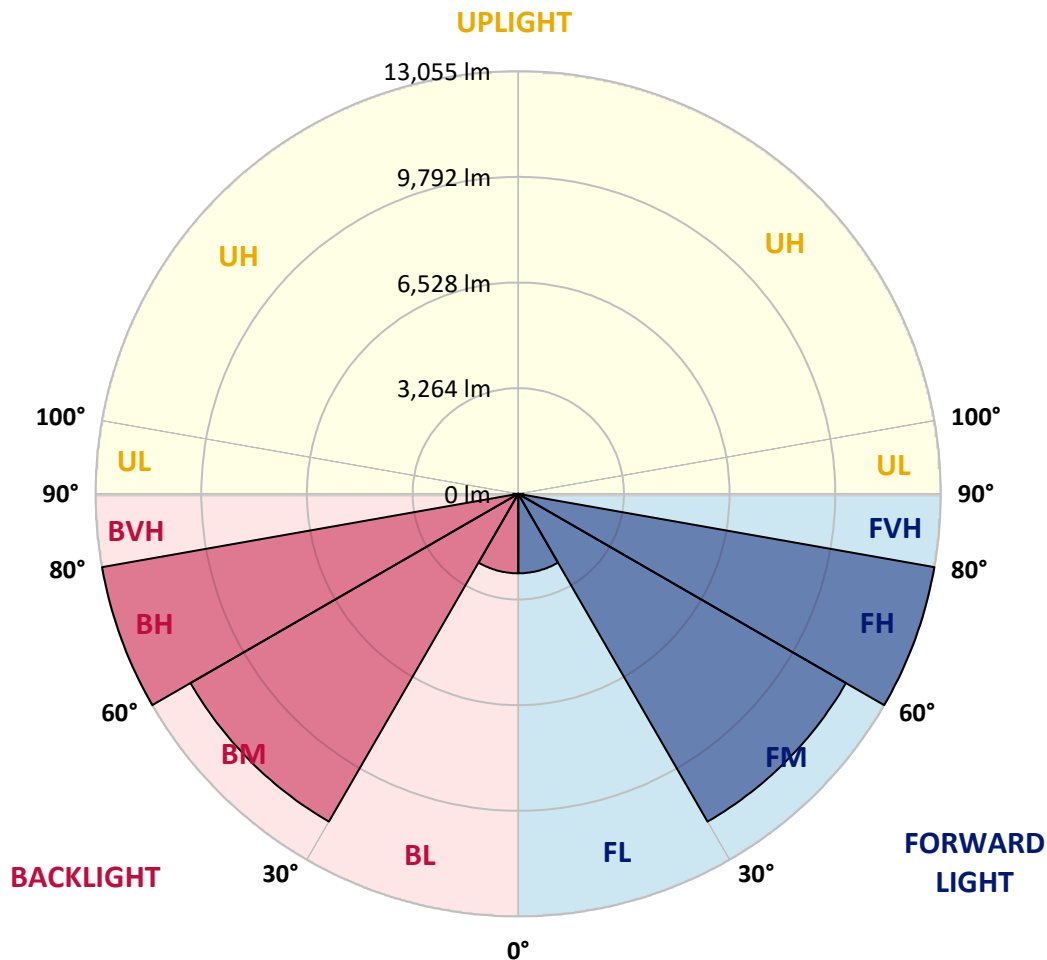
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.1	4.5			
FM (30°-60°)	11692.5	21.4			
FH (60°-80°)	13055.4	23.9			G5
FVH (80°-90°)	156.8	0.3			G2/225
BL (0°-30°)	2455.1	4.5	B3/2500		
BM (30°-60°)	11692.5	21.4	B5		
BH (60°-80°)	13055.4	23.9	B5		G5
BVH (80°-90°)	156.8	0.3			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 V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5	5241.5
2.5°	5266.3	5271.8	5260.8	5255.3	5249.8	5241.5	5244.3	5258.0	5269.0	5266.3	5269.0
5°	5310.2	5315.8	5307.6	5304.8	5293.8	5291.0	5291.0	5304.8	5313.0	5307.6	5310.2
7.5°	5359.7	5367.9	5354.2	5351.4	5346.0	5340.5	5337.7	5351.4	5359.7	5359.7	5359.7
10°	5406.4	5414.7	5403.7	5395.4	5390.0	5390.0	5384.4	5395.4	5409.1	5406.4	5406.4
12.5°	5455.9	5461.3	5450.3	5444.9	5444.9	5453.1	5444.9	5450.3	5461.3	5455.9	5453.1
15°	5516.2	5519.0	5516.2	5524.5	5538.3	5565.7	5541.0	5535.5	5541.0	5527.3	5527.3
17.5°	5598.8	5604.2	5615.2	5634.4	5653.7	5703.1	5659.1	5645.4	5645.4	5617.9	5617.9
20°	5700.3	5708.6	5725.0	5758.0	5782.7	5829.5	5785.5	5766.2	5758.0	5722.4	5722.4
22.5°	5807.4	5821.2	5846.0	5889.9	5933.8	5977.8	5933.8	5900.9	5876.1	5829.5	5826.7
25°	5931.1	5947.6	5986.1	6057.4	6117.9	6181.1	6128.9	6063.0	6013.6	5947.6	5944.8
27.5°	6107.0	6126.1	6172.9	6260.8	6337.7	6392.6	6343.2	6258.0	6189.4	6109.7	6107.0
30°	6354.2	6373.4	6428.4	6521.8	6573.9	6609.6	6576.7	6510.8	6428.4	6337.7	6337.7
32.5°	6672.9	6697.6	6758.0	6845.9	6856.9	6862.4	6851.4	6818.4	6758.0	6648.2	6650.8
35°	7076.7	7104.2	7172.8	7244.3	7233.2	7244.3	7227.8	7216.8	7172.8	7046.5	7046.5
37.5°	7571.2	7604.2	7675.5	7730.4	7703.0	7689.2	7692.0	7694.8	7670.1	7530.0	7530.0
40°	8145.4	8189.2	8241.5	8299.1	8252.5	8211.3	8238.7	8260.7	8238.7	8095.9	8095.9
42.5°	8736.0	8799.1	8854.1	8936.5	8898.0	8845.9	8884.3	8909.0	8862.4	8708.5	8719.5
45°	9392.5	9453.0	9524.4	9648.0	9620.5	9565.6	9620.5	9626.1	9546.3	9365.0	9384.3
47.5°	10071.0	10134.3	10241.4	10406.2	10395.2	10334.8	10406.2	10367.8	10266.1	10049.1	10035.4
50°	10713.9	10801.9	10966.7	11197.4	11219.3	11145.2	11241.4	11167.2	10996.8	10724.9	10719.4
52.5°	11318.3	11411.7	11672.7	11985.8	12065.5	11969.3	12098.5	11969.3	11713.9	11365.0	11332.0
55°	11952.8	12057.3	12367.6	12777.0	12936.3	12865.0	12985.8	12790.8	12428.1	12005.1	11947.4
57.5°	12700.1	12763.3	13134.1	13620.4	13889.6	13906.1	13961.0	13631.4	13191.9	12711.1	12645.1
60°	13510.5	13598.5	14002.2	14584.6	15010.5	15147.9	15090.2	14601.1	14090.2	13538.0	13450.0
62.5°	14549.0	14645.1	15128.6	15826.4	16499.4	16840.0	16614.8	15906.1	15274.1	14612.1	14496.8
65°	15408.8	15515.9	16389.5	17634.0	18859.2	19543.3	18977.4	17672.4	16535.1	15601.1	15447.3
67.5°	14785.2	14917.0	16287.9	18573.5	21620.1	23661.3	21724.5	18853.7	16625.8	15359.3	15169.8
70°	12922.6	13046.2	14645.1	17438.9	22397.6	26870.0	22864.6	17952.7	14697.3	13279.8	13090.2
72.5°	8579.4	8977.7	10595.7	13947.3	19999.3	24864.6	20197.1	13664.4	9829.3	8560.2	8282.7
75°	2846.0	3164.7	4269.1	7230.6	13395.1	18595.6	12752.3	6398.2	3381.8	2434.0	2302.1
77.5°	717.0	826.9	1140.1	2068.7	5343.2	10587.5	4810.2	1689.5	920.3	642.9	574.2
80°	348.9	384.6	549.4	689.5	1337.8	3365.3	1255.4	648.3	434.1	335.2	307.7
82.5°	192.3	195.1	310.5	390.1	497.2	870.8	516.5	379.1	250.0	203.3	203.3
85°	118.1	115.4	164.8	208.8	208.8	310.5	247.2	208.8	142.9	126.4	131.8
87.5°	46.7	46.7	60.5	65.9	57.7	79.6	63.1	68.7	54.9	52.2	54.9
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)