

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: P969760

Luminaire Tested: **NAV-SB6A-727-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

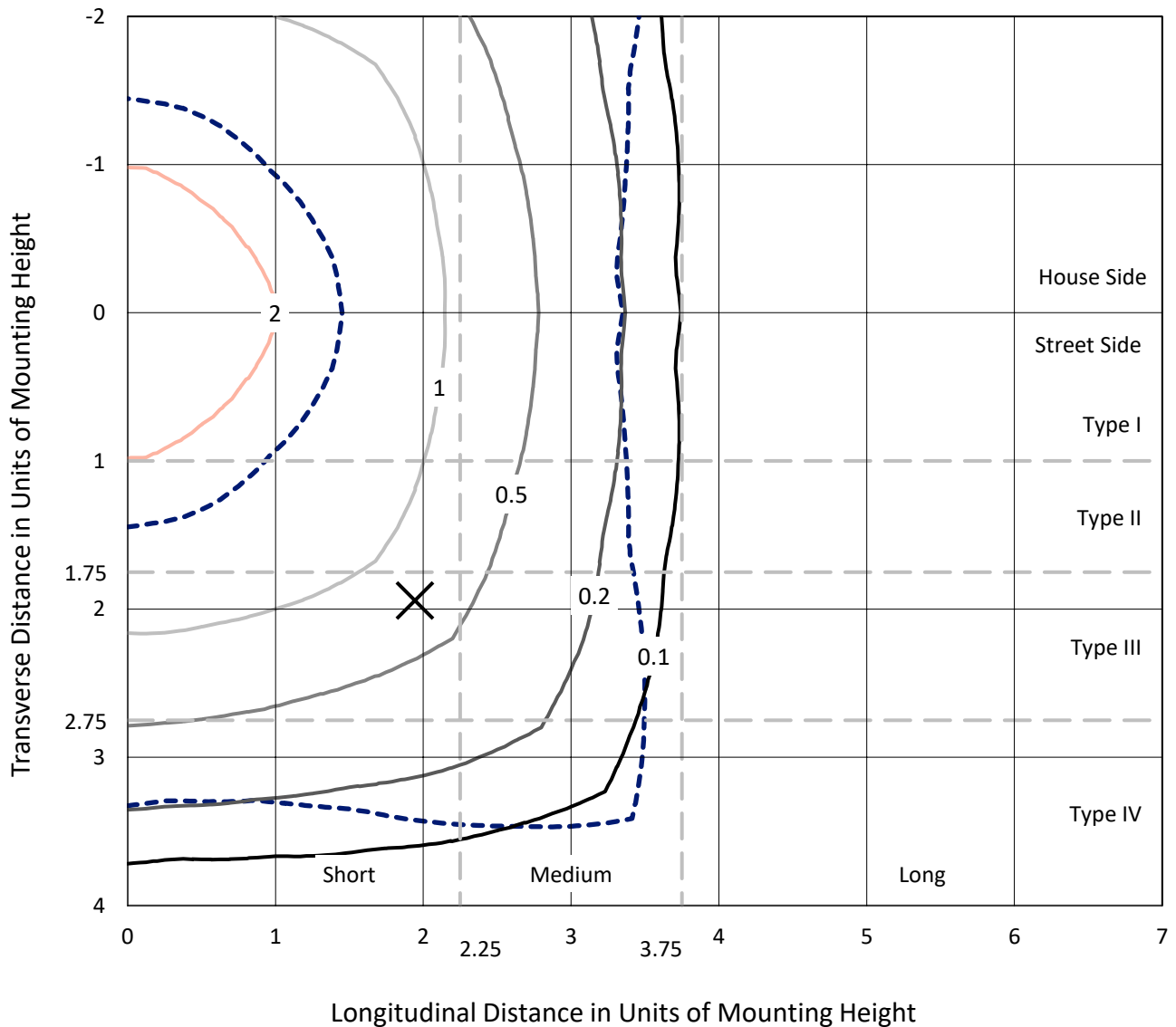
Lumens per Lamp: N/A  
Luminaire Lumens: 26159 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

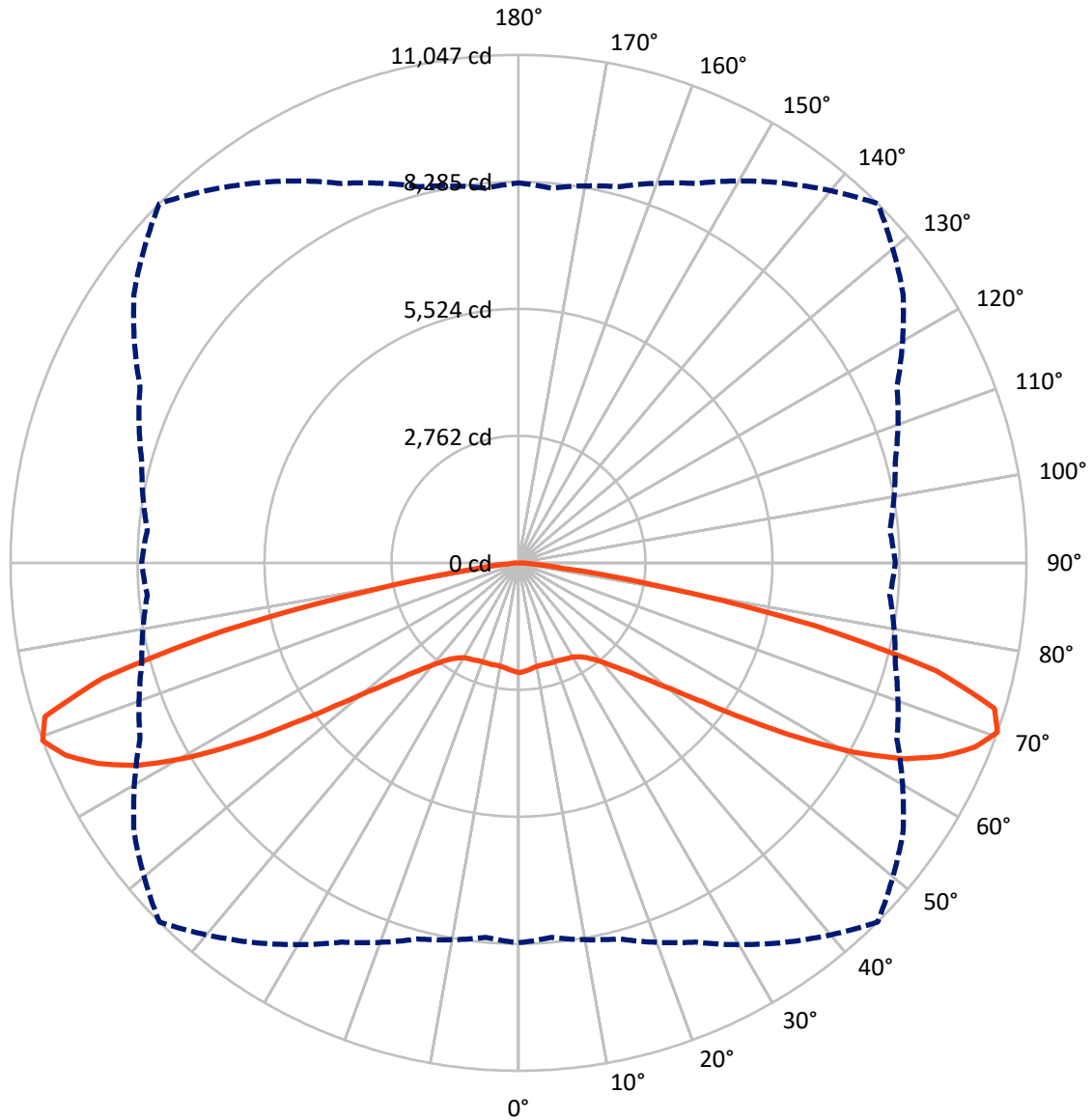
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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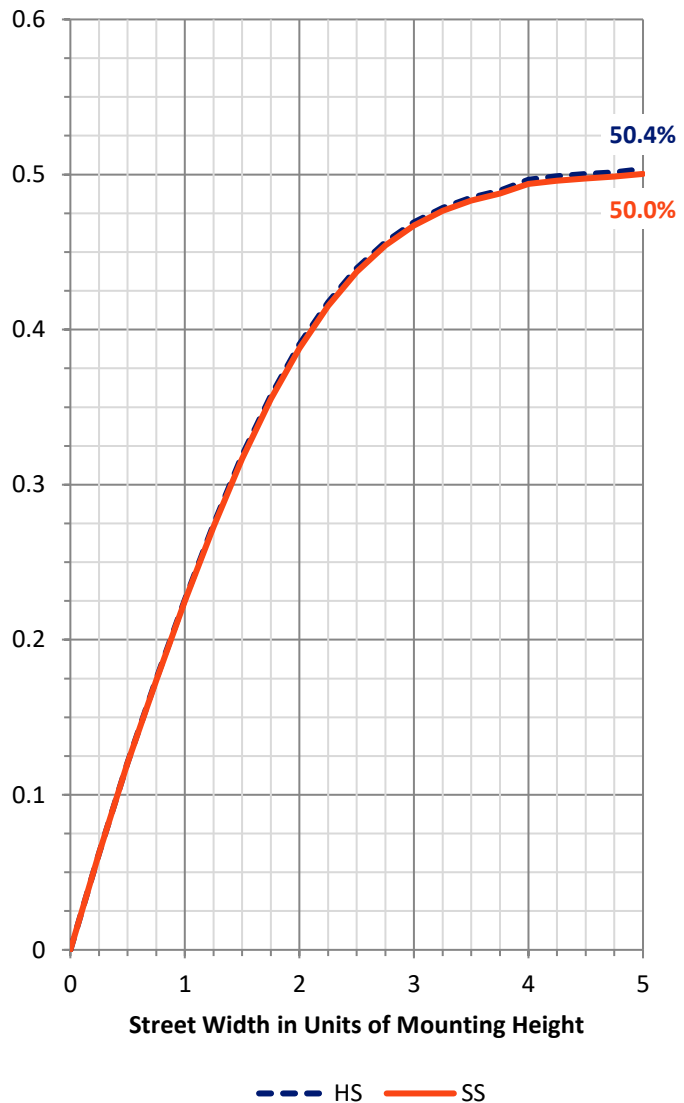
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13079.5	0.0	13079.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13079.5	0.0	13079.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26159.0	0.0	26159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.0	0.8
10°-20°	651.8	2.5
20°-30°	1084.6	4.1
30°-40°	1640.3	6.3
40°-50°	2725.8	10.4
50°-60°	5143.5	19.7
60°-70°	8685.0	33.2
70°-80°	5707.0	21.8
80°-90°	299.0	1.1
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°	26159.0	100.0
0°-180°	26159.0	100.0

**Coefficient of Utilization**



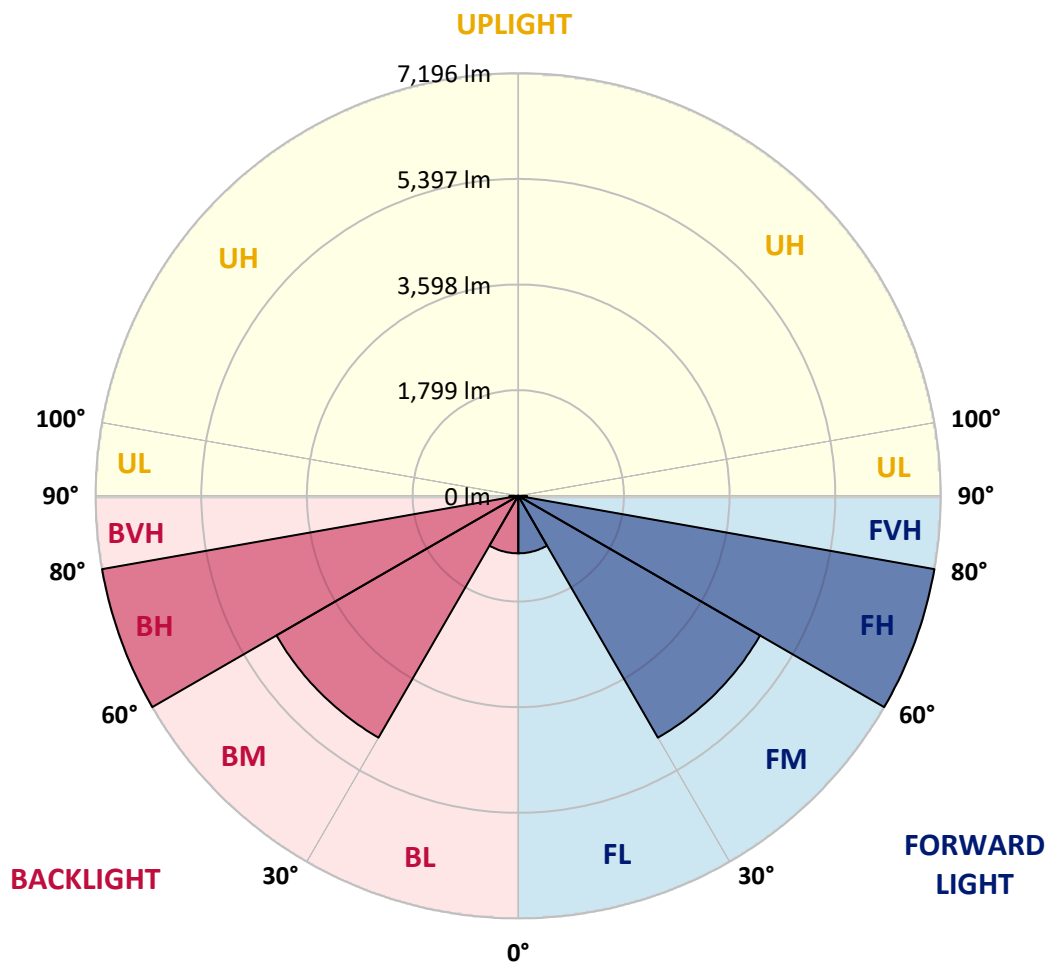
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.2	3.7			
FM (30°-60°)	4754.8	18.2			
FH (60°-80°)	7196.0	27.5			G3/7500
FVH (80°-90°)	149.5	0.6			G2/225
BL (0°-30°)	979.2	3.7	B2/1000		
BM (30°-60°)	4754.8	18.2	B3/5000		
BH (60°-80°)	7196.0	27.5	B5		G3/7500
BVH (80°-90°)	149.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2	2386.2
2.5°	2371.2	2378.1	2375.3	2369.9	2369.9	2365.8	2369.9	2372.7	2376.7	2379.4	2378.1
5°	2340.0	2345.4	2344.1	2340.0	2341.4	2337.3	2340.0	2344.1	2346.8	2348.2	2348.2
7.5°	2312.8	2318.2	2315.6	2308.7	2308.7	2304.6	2306.0	2310.0	2314.1	2315.6	2315.6
10°	2306.0	2311.5	2303.3	2292.4	2288.3	2282.9	2284.2	2288.3	2296.5	2300.6	2300.6
12.5°	2308.7	2312.8	2304.6	2288.3	2284.2	2278.8	2278.8	2282.9	2293.7	2299.2	2300.6
15°	2316.9	2321.0	2308.7	2291.1	2287.0	2282.9	2281.5	2287.0	2299.2	2308.7	2310.0
17.5°	2331.9	2335.9	2316.9	2292.4	2287.0	2288.3	2287.0	2291.1	2310.0	2327.8	2327.8
20°	2345.4	2348.2	2322.3	2292.4	2287.0	2288.3	2287.0	2295.2	2319.6	2344.1	2345.4
22.5°	2349.5	2352.3	2327.8	2301.9	2297.8	2299.2	2297.8	2306.0	2329.1	2353.6	2353.6
25°	2350.8	2354.9	2335.9	2315.6	2322.3	2325.0	2322.3	2323.7	2341.4	2363.1	2361.8
27.5°	2371.2	2376.7	2359.0	2341.4	2345.4	2344.1	2348.2	2352.3	2365.8	2387.6	2382.1
30°	2413.5	2417.5	2402.5	2384.9	2382.1	2372.7	2384.9	2398.5	2413.5	2432.4	2428.4
32.5°	2482.8	2491.0	2471.9	2452.8	2440.6	2435.2	2444.7	2467.8	2488.2	2508.6	2500.5
35°	2598.4	2603.8	2586.1	2550.7	2529.0	2529.0	2537.2	2567.1	2599.7	2625.5	2616.0
37.5°	2761.5	2768.3	2737.1	2694.8	2662.2	2662.2	2673.1	2704.4	2753.4	2790.0	2776.4
40°	2960.0	2969.5	2930.1	2886.6	2855.3	2849.9	2863.4	2898.8	2945.0	2991.3	2976.3
42.5°	3199.3	3210.2	3158.5	3120.4	3096.0	3096.0	3102.8	3135.4	3177.6	3234.7	3230.6
45°	3505.2	3524.3	3453.5	3415.5	3392.3	3397.9	3401.9	3430.5	3468.5	3533.8	3531.1
47.5°	3869.7	3888.6	3813.9	3774.5	3770.4	3796.2	3779.9	3800.3	3820.7	3895.5	3873.7
50°	4283.0	4315.6	4263.9	4261.2	4269.3	4317.0	4278.9	4289.7	4266.7	4314.2	4285.7
52.5°	4788.8	4836.4	4826.8	4843.1	4934.2	5032.1	4945.1	4907.1	4820.1	4835.0	4784.7
55°	5402.0	5474.0	5487.6	5585.5	5792.2	5992.0	5807.1	5653.5	5468.6	5434.7	5381.6
57.5°	6099.5	6156.6	6221.9	6421.7	6807.8	7162.8	6807.8	6468.0	6177.0	6107.7	6058.7
60°	6850.1	6920.7	6983.3	7278.3	7852.1	8351.1	7841.2	7301.5	6916.7	6822.8	6741.2
62.5°	7656.3	7747.5	7790.9	8118.6	8787.5	9383.2	8797.1	8143.1	7716.2	7615.5	7534.0
65°	8430.0	8504.7	8553.7	8903.2	9542.2	10139.1	9585.7	8941.2	8502.1	8370.2	8304.9
67.5°	8790.3	8831.1	8950.7	9346.4	10020.8	10702.0	10135.0	9388.6	8897.7	8666.6	8669.2
70°	8262.7	8179.8	8468.0	9101.7	10077.9	11047.3	10208.5	9082.6	8481.7	8106.4	8196.1
72.5°	6385.0	6242.2	6742.7	7826.3	9425.3	10827.1	9490.6	7887.5	7053.9	6292.6	6481.6
75°	3473.9	3312.2	4002.9	5373.5	7516.3	9384.5	7688.9	5527.1	4457.0	3448.1	3672.5
77.5°	980.3	919.1	1476.6	2599.7	4521.0	6589.0	4694.9	2656.8	1751.2	1038.8	1154.4
80°	300.5	291.0	394.3	783.2	1919.8	3155.8	1845.1	792.7	501.7	316.8	334.5
82.5°	178.1	163.2	195.8	285.6	489.4	991.2	475.9	297.8	239.3	160.4	174.0
85°	102.0	95.2	115.6	138.7	164.5	210.7	137.4	141.4	127.8	85.7	89.7
87.5°	42.1	38.0	44.9	43.5	38.0	49.0	36.7	43.5	51.7	34.0	31.3
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)